GF Piping Systems

+GF+

## Product Range

# Marine



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Marine application environment

# Plastic can do more for ship and offshore

GF Piping Systems develops application-oriented thermoplastic piping solutions that enable fast and easy installation, profitable operations, and environmental benefits. We support our customers in implementing sustainable, future-oriented, and well-designed piping concepts with state-of-the-art planning techniques to optimize the economic efficiency of processes. Our piping systems can be applied for the transportation of water, seawater, coolants, and sewage onboard cruise ships, ferries, mega-yachts, container ships, bulk and LNG carriers, OSVs, wind farms, and offshore energy platforms.



**Cruise ship and ferries**

Thermoplastic and multilayer piping systems safely convey the transport of water onboard passenger ships like cruise liners, mega yachts, or ferries and provide a lightweight, soundproof, and corrosion-free alternative to metal piping systems.



**Merchant ships**

Corrosion- and maintenance-free thermoplastic piping systems have a long service life and help lowering the maintenance time and cost of merchant's vessels, bulk carriers, trawlers, and LNG carriers to a minimum.



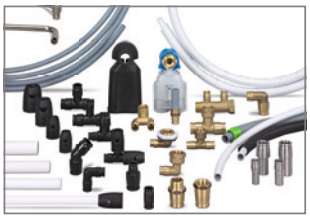
**Offshore Energy**

Floating wind farms, offshore support vessels, floating cranes, or oil platforms can benefit from the easy-to-install piping solutions with automation capabilities, enabling the way to autonomous operations.



### INSTAFLEX

Hot and cold, fresh water



### iFIT

Hot & cold, fresh water, AC-cooling



### Hycleen Automation System

Hot and cold water distribution



### JRG Sanipex MT

Hot & cold, fresh water, AC-cooling, compressed air



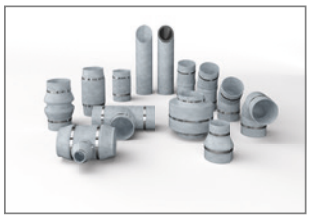
### JRG Valves

Hot and cold, fresh water



### ecoFIT

Ballast, AWP, RSW and scrubber effluent



### HEAT-FIT

L3 fire endurance, Sea water cooling, ballast water distribution and treatment



### COOL-FIT 2.0

Chilled water, AC cooling



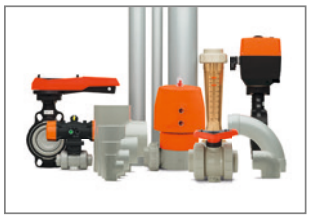
### COOL-FIT 4.0

Chilled water, AC cooling



### ABS

AC cooling



### PVC-C Marine Grade metric

Water treatment, sea water



### PVC-U metric

Water Treatment, swimming pool and SPA



### PROGEF



### Valves & Automation

Accurate measurement, precise control, reliable actuation



### AQUASYSTEM

Hot and cold water



### SeaDrain® White

Grey and black water, vent line



### ELGEF Plus

Ballast water



### UNIcoupler



### Machines & Tools

# Application matrix

| Material | PVC-U | Marine Grade PVC-C | Seacor | ABS | COOL-FIT 2.0 | COOL-FIT 4.0 | ecoFIT PE-100 |
|---|---|---|---|---|---|---|---|
| **System of measurement** | Met./Sched. | Met./Sched. | Schedule | Met./Sched. | Metric | | Metric |
| **Jointing** | Cementing | Cementing | Cementing | Cementing | Welding | Welding | Welding |
| **Applications in Accomodation, Engine Room, Technical Spaces** | | | | | | | |
| Freshwater System Hot | | X* | X | | | | |
| Freshwater System Cold | X | X* | X | | | | X |
| Greywater System & Treatment | X | X | X | X | | | X |
| Blackwater / Sewage System & Treatment | X | X | X | X | | | X |
| Technicalwater / Deckwash Treatment | X | X | X | | | | X |
| HVAC System / Chilled Water System | | | | X | X | X | X |
| Food Processing / Waste Water Service | X | X | X | | | | X |
| Kitchen Drains / Grease Trap System | X | X | X | | | | X |
| Swimming Pool / Jacuzzi | X | X | X | X | | | X |
| Brine Water System / Cool-Freeze / Sec.System | | | | | | X | X |
| Central Heating | | | | | | | |
| Drainage / Scuppers | X | X | X | | | | X |
| Cable Protection Piping | | | | | | | X |
| Working Air / Compressed Air | | | | | | | X |
| Starting Air/ Engine | | | | | | | |
| FiFi / Fire Main System | | | | | | | X** |
| Engine Cooling Water System | | | | | | | X** |
| Ballastwater / Heeling System | | | | | | | X** |
| Bilgewater System | | | | | | | X** |
| Scrubber Treatment System | | | | | | | X** |
| Scrubber Effluent Lines | | | | | | | X** |
| Cargo Lines | | | | | | | X |
| Purging Lines Air / Water | | | | | | | X |
| Jetting Leg Backup System / Spud Pillars | | | | | | | X |
| Jet-Water System | | | | | | | X |
| RSW System (Refrigerated Sea Water) | | | | X | X | X | X |
| Fish Production / Processing Street | X | | | X | | | X |
| Ballast Bubble System / De-Icing System | | | | | | | X |
| Tank Venting | | | | | | | X |
| Sounding Pipes | | | | | | | X |
| Desalination Units / RO Units | X | X | X | | | | |
| Ballast Water Management System (BWMS) | X | X | X | | | | X** |
| Cooling Hydrogen / H2-Container / Methanol | | | | | | | X |
| Electrical Cabinet / Panel Cooling | | | | | | | |

*Only schedule system is applicable.

** If L3 is required, ecoFIT is only applicable in combination with HEAT-FIT Jacket System.

| PROGEF PP-H | AQUASYSTEM PP-R | INSTAFLEX PB | i-FIT Multilayer Composite | Hycleen Automation System | JRG Sanipex MT Multilayer Composite | Seadrain White PPFR | HEAT-FIT Insulation Jacket | UNI-Coupling | Butterfly valve 565 |
|---|---|---|---|---|---|---|---|---|---|
| Metric | Metric | Metric | Metric | | Metric | Schedule | Metric | Metric | Metric |
| Welding | Welding | Welding | Mechanical | | Mechanical | Welding | Mechanical | Mechanical | Mechanical |
| | X | X | X | X | X | | | X | X |
| X | X | X | X | X | X | | | X | X |
| | | | | | X | X | | X | X |
| | | | | | X | X | | X | X |
| X | X | X | X | | X | | | X | X |
| | | | X | | X | | | X | X |
| | | | | | X | X | | X | X |
| | | | | | | X | | X | X |
| | | | | | | | | X | X |
| | | | | | X | | | X | X |
| | | X | X | | X | | | X | X |
| | | | | | | X | | X | X |
| | | | | | | | | X | |
| X | | X | X | | X | | | X | X |
| | | X | | | X | | X | X | X |
| | | | | | | | X | X | X |
| | | | | | | | X | | |
| | | | | | | | X | X | X |
| X | | | | | | | X | | |
| X | | | | | | | X | | |
| | | | | | | | | X | X |
| | | | | | | | | X | X |
| | | | | | | | | X | |
| | | | | | | | | X | X |
| | | | | | X | | | X | X |
| | | | | | | | | X | X |
| | | | | | | | | X | X |
| X | | X | | | X | X | | X | |
| | | | | | | | | X | |
| X | | X | | | X | | | X | X |
| X | | | | | | | X | X | X |
| X | | | | | | | | X | X |
| X | | X | X | | X | | | X | X |

# Type approvals

| | Classification Bodies | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Products** | ABS | DNV | LR | BV | CCS | RINA | NK | KR | USCG | DVGW | NSF | WRAS | OVGW |
| JRG Sanipex-MT | X | X | X | X | | X | | | | X | | X | X |
| PERT | X | X | X | | X | | | | | | | | |
| iFIT | X | X | X | X | | X | | | | X | | X | X |
| INSTAFLEX PB | X | X | X | X | | X | | | | X | | X | X |
| PROGEF / PP-H | X | X | X | X | | X | | | | | X | | |
| AQUASYSTEM / PP-R | X | X | X | * | | | | X | | X | | X | |
| ecoFIT / PE-100 | X | X | X | X | | X | X | | | X | | X | X |
| HEAT-FIT | X | X | X | X | | X | | | | | | | |
| COOL-FIT 2.0 / 4.0 | | X | X | X | | X | | | | | | | |
| ABS | X | X | X | X | X | | | X | | | | X | |
| PVC-U Metric | X | X | X | X | | X | | | | X | | X | |
| PVC-C Marine grade Metric | X | X | X | X | | X | X | X | | X | | X | |
| UPVC Sch80 | X | X | | | | | | | | | X | | |
| CPVC Sch80 Marine Grade | X | X | X | | | | | | | | X | | |
| SeaDrain White / PPFR | X | X | | X | | X | | | | | X | | |
| SeaCor | X | X | X | | | | | | X | | X | | |
| SeaDrain Plus | X | | | | | | | | X | | X | | |
| 546 Pro Ball Valves | X | X | X | X | | X | | X | | X | X | X | X |
| 542 Ball Valves | X | | | | | | | | | | | | |
| 567 Butterfly Valves | X | X | X | X | | | | X | | X | | X | X |
| 565 Butterfly Valves | X | X | X | X | | X | | | | | X | X | |
| UNI-Grip | X | X | X | X | X | X | | X | | | | | |
| UNI-Flex | X | X | X | X | X | X | | X | | | | | |
| UNI-Plastgrip | | | X | | | X | | | | | | | |
| UNI-Combigrip | | | X | | | X | | | | | | | |
| JRGARANT | | X | | X | | | | | | | | | |
| JRGURED | | X | | X | | | | | | X | | | |
| JRG Legiostop | | X | | X | | | | | | | | | |
| JRGUTHERM | | X | | X | | | | | | | | | |
| Conductivity Sensor | | | X | | | | | X | | | | | |

* in progress

For some products, the validity of the certification may be limited to the production plant.

# Best choice for your marine application

Ships and platform are also essential for the worlds economy. Water is their element. Preventing corrosion is more important here than anywhere else. With plastic piping systems from GF Piping Systems, corrosion is no longer an issue.

### Plastic can do more

Corrosion-free piping systems. This guarantees the long service life of your systems. You save dry-dock time. You save service costs. You save maintenance costs. All in all, you are in business quicker. That is your benefit. You also save on weight. Plastic piping systems weigh approx. 5 x less than metal – a savings of several tonnes per ship. This in turn allows for more freight, more passengers and therefore more profit. Besides, installation is much faster. Plastic offers the possibility of prefabrication, which radically reduces installation time on board. Plastic enables installations with a small amount of tools in a small amount of space. Technical specialists are not always required. Another significant benefit.

### Weight comparison – plastic to metal (per 100 metres of piping)

| | Diameter | | | |
|---|---|---|---|---|
| **kg** | d25 | d50 | d110 | d160 |
| Plastic | 16 | 53 | 248 | 550 |
| Carbon steel | 119 | 233 | 737 | 1093 |
| Stainless steel | 79 | 197 | 505 | 1542 |
| Copper | 59 | 292 | 737 | - |
| **Savings plastic to steel** | **103** | **239** | **489** | **992** |

### Where can i use plastics?

GF Piping System are approved according to IMO Res. A.753 in combination with classification society. The GF piping can be applied for non-essential application on board and can be installed in accommodation area, open deck, cofferdam and engine rooms. The low flame spread is tested in accordance to ASTM D.635 for all the GF piping system. SeaCor is also recognized by USCG and together PVCC Marine Grade meets the recent MSC 399, part 2 and 5 of FTP Code so to satisfy more stringent requirement.



# INSTAFLEX




## Your benefits

+ **Noise-insulating**
+ **Full flow design**
+ **Elasticity to follow building shape**
+ **Flexibility helps where space is limited**
+ **Cost-effective prefabricated solutions**
+ **One system from point of entry to lap**
+ **Excellent pressure and temperature resistant**
+ **Complete system in one pipe material**
+ **Simplicity with electro fusion fittings**

## Technical data

**Materials**
PB, DZR brass

**Dimensions range**
d16 mm – d315 mm

**Jointing technology**
Electro fusion, socket fusion, butt fusion, compression joints

**Operating pressure**
Up to 16 bar

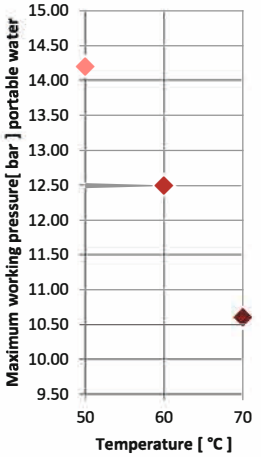
**Operating temperature**
–10°C to 95°C

The value above listed are to be considered for water, in case of use chemical addition it is always recommended to contact GF specialist to an individual and more detailed assessment.

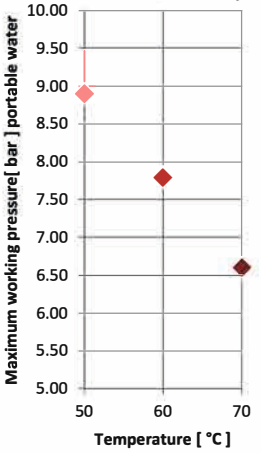
# Technical Data

| | Temperature [°C] | Time [years] | Polybuten PB-1 |
|---|---|---|---|
| | | | Pipe serie s |
| | | | S |
| | | | SDR |
| | | | 11 |
| approved range | 10 | 1 | 20.3 |
| | | 5 | 20.1 |
| | | 10 | 20.0 |
| | | 25 | 19.7 |
| | | 50 | 19.4 |
| | | 100 | 19.1 |
| | 20 | 1 | 19.3 |
| | | 5 | 19.1 |
| | | 10 | 18.9 |
| | | 25 | 18.5 |
| | | 50 | 18.2 |
| | | 100 | 17.8 |
| | 30 | 1 | 18.2 |
| | | 5 | 17.9 |
| | | 10 | 17.6 |
| | | 25 | 17.2 |
| | | 50 | 16.8 |
| | | 100 | 16.5 |
| | 40 | 1 | 16.9 |
| | | 5 | 16.5 |
| | | 10 | 16.2 |
| | | 25 | 15.7 |
| | | 50 | 15.3 |
| | | 100 | 15.0 |
| | 50 | 1 | 15.5 |
| | | 5 | 15.0 |
| | | 10 | 14.6 |
| | | 25 | 14.1 |
| | | 50 | 13.7 |
| | | 100 | 13.4 |
| | 60 | 1 | 14.0 |
| | | 5 | 13.2 |
| | | 10 | 12.8 |
| | | 25 | 12.3 |
| | | 50 | 12.0 |
| | 70 | 1 | 12.3 |
| | | 5 | 11.3 |
| | | 10 | 10.9 |
| | | 25 | 10.5 |
| | | 50 | 10.1 |
| calculated range | 80 | 1 | 10.2 |
| | | 5 | 9.3 |
| | | 10 | 8.9 |
| | | 12 | 8.8 |
| | | 18 | 8.6 |
| | | 25 | 8.4 |
| | 90 | 1 | 7.9 |
| | | 4 | 7.2 |
| | | 5 | 7.1 |
| | | 6 | 7 |
| | | 10 | 6.7 |
| | | 15 | 6.5 |
| | 95 | 1 | 6.8 |
| | | 2.5 | 6.3 |
| | | 4 | 6 |
| | | 5 | 5.9 |
| | | 10 | 5.8 |

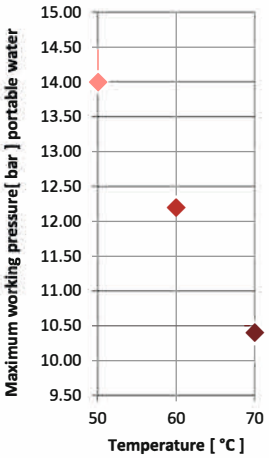
**INSTAFLEX d16-d110**
**Working pressure (PN16)**
**expected lifetime 20 years**



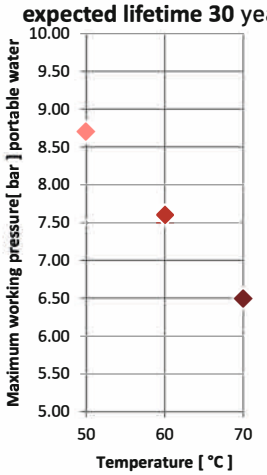

**INSTAFLEX d125-d225**
**Working pressure (PN10)**
**expected lifetime 20 years**



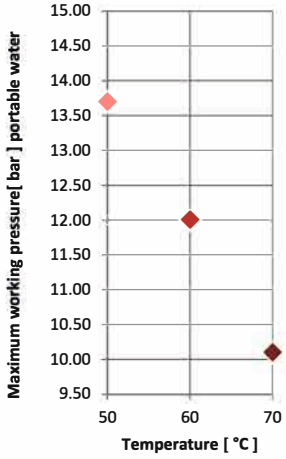

**INSTAFLEX d16-d110**
**Working pressure (PN16)**
**expected lifetime 30 years**



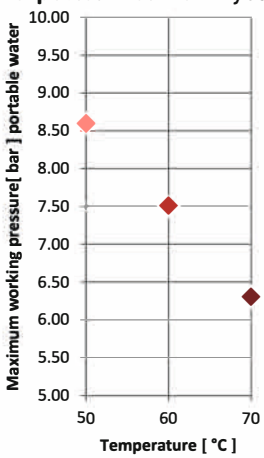

**INSTAFLEX d125-d225**
**Working pressure (PN10)**
**expected lifetime 30 years**



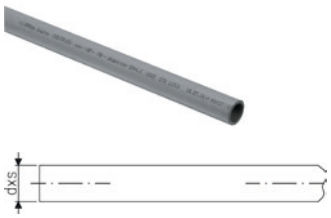

**INSTAFLEX d16-d110 Working pressure (PN16) expected lifetime 50 years**




**INSTAFLEX d125-d225**
**Working pressure (PN10)**
**expected lifetime 50 years**



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## INSTAFLEX Pipe PB
## Bars

Packed in cardboard boxes
- Material: PB
- SDR: 11
- Operation pressure: 16 bars
- Mono-layer pipe

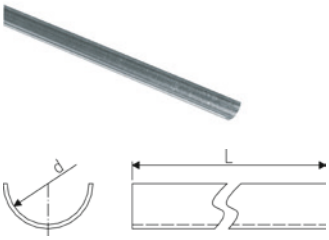
| d (mm) | s (mm) | Code | Weight (kg) | L (m) |
|---|---|---|---|---|
| 16 | 2.2 | **760 856 606** | 0.097 | 5.8 |
| 20 | 2.8 | **760 856 607** | 0.151 | 5.8 |
| 25 | 2.3 | **760 856 608** | 0.165 | 5.8 |
| 32 | 2.9 | **760 856 609** | 0.270 | 5.8 |
| 40 | 3.7 | **760 856 610** | 0.416 | 5.8 |
| 50 | 4.6 | **760 856 611** | 0.645 | 5.8 |
| 63 | 5.8 | **760 856 612** | 1.020 | 5.8 |
| 75 | 6.8 | **760 856 613** | 1.440 | 5.8 |
| 90 | 8.2 | **760 856 614** | 2.060 | 5.8 |
| 110 | 10.0 | **760 856 615** | 3.050 | 5.8 |
| 125 | 11.4 | **761 065 326** | 3.950 | 5.8 |
| 160 | 14.6 | **761 065 327** | 6.460 | 5.8 |
| 225 | 20.5 | **761 065 328** | 12.700 | 5.8 |
| 315 | 28.6 | **761 065 324** | 24.800 | 3.0 |



## INSTAFLEX Pipe PB Coiled

*as long as stock last
Packed in cardboard boxes
Packed in protective wrap

| | d (mm) | s (mm) | Code | Weight (kg/m) | L (m) |
|---|---|---|---|---|---|
| | 16 | 2.2 | **760 853 389** | 0.100 | 60 |
| * | 16 | 2.2 | **760 853 395** | 0.150 | 102 |
| | 20 | 2.8 | **760 853 390** | 0.150 | 60 |
| * | 20 | 2.8 | **760 853 397** | 0.150 | 102 |
| * | 20 | 2.8 | **760 853 398** | 0.150 | 400 |
| | 25 | 2.3 | **760 854 946** | 0.165 | 30 |



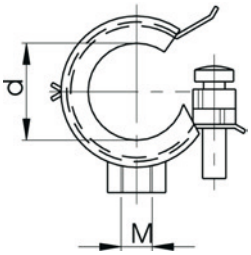

## Pipe support tray galvanised

- Addition: clip

Only for INSTAFLEX and JRG Sanipex MT
For diameter over d90 no pipe support is required

| d (mm) | Code | Weight (kg) | L (mm) |
|---|---|---|---|
| 16 | **760 856 602** | 0.550 | 3000 |
| 20 | **760 856 603** | 0.680 | 3000 |
| 25 | **760 856 604** | 0.844 | 3000 |
| 32 | **760 856 605** | 1.073 | 3000 |
| 40 | **760 854 928** | 1.335 | 3000 |
| 50 | **760 854 929** | 1.662 | 3000 |
| 63 | **760 854 930** | 0.570 | 3000 |
| 75 | **760 854 985** | 2.480 | 3000 |

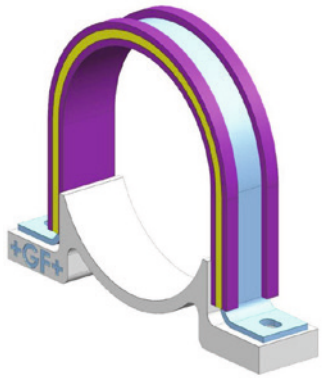





## Pipe clamp
## With rubber

For iFIT, INSTAFLEX, JRG Sanipex, JRG Sanipex MT

| d (mm) | Code | Weight (kg) | M (mm) |
|---|---|---|---|
| 16 | **761 066 296** | 0.039 | 8 |
| 20 | **761 066 297** | 0.045 | 8 |
| 25 | **761 066 298** | 0.053 | 8 |
| 32 | **761 066 299** | 0.046 | 8 |
| 40 | **761 066 300** | 0.071 | 8 |
| 50 | **761 066 301** | 0.087 | 8 |
| 63 | **761 066 302** | 0.134 | 8 |
| 75 | **761 066 303** | 0.135 | 8 |
| 90 | **761 066 304** | 0.156 | 10 |
| 110 | **761 066 305** | 0.228 | 10 |

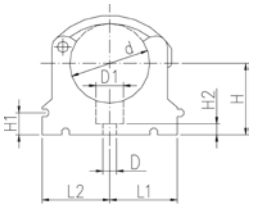



## Pipe Brackets ROM

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 125 | **761 070 337** | 0.228 |
| 160 | **761 070 338** | 0.228 |
| 225 | **761 070 343** | 1.160 |











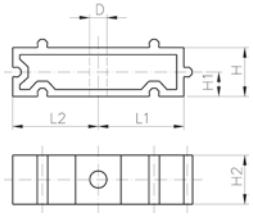
## KLIP-IT pipe clip type 061 PE metric

**Model:**

- Material: clip PE and safety clip PP black, bolts galvanized
- **Minimum order quantity: standard packaging SP**
- Height not designed for ball valve 546 and 543. Please use spacer 73 06 11.

| | d (mm) | Code | Weight (kg) | D (mm) | D1 (mm) | L1 (mm) | L2 (mm) | H (mm) | H1 (mm) | H2 (mm) | H3 (mm) | SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * | 16 | **173 061 005** | 0.006 | 6 | 11 | 14 | 17 | 23 | 10 | 6 | 16 | M5 |
| * | 20 | **173 061 006** | 0.007 | 6 | 11 | 17 | 19 | 25 | 10 | 6 | 16 | M5 |
| * | 25 | **173 061 007** | 0.009 | 6 | 11 | 19 | 22 | 28 | 10 | 6 | 16 | M5 |
| * | 32 | **173 061 008** | 0.011 | 6 | 11 | 24 | 27 | 31 | 10 | 6 | 16 | M5 |
| | 40 | **173 061 009** | 0.026 | 7 | 14 | 34 | 34 | 44 | 10 | 7 | 22 | M6 |
| | 50 | **173 061 010** | 0.028 | 7 | 14 | 37 | 37 | 40 | 10 | 7 | 22 | M6 |
| | 63 | **173 061 011** | 0.047 | 9 | 17 | 45 | 45 | 52 | 10 | 10 | 25 | M8 |
| | 75 | **173 061 012** | 0.061 | 9 | 17 | 52 | 52 | 58 | 10 | 10 | 25 | M8 |
| | 90 | **173 061 013** | 0.098 | 9 | 17 | 65 | 65 | 64 | 10 | 10 | 28 | M8 |
| | 110 | **173 061 014** | 0.125 | 9 | 17 | 79 | 79 | 75 | 10 | 10 | 28 | M8 |





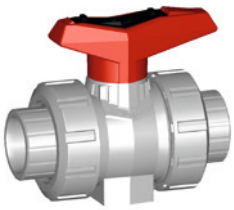

## KLIP-IT spacer type 061 PE

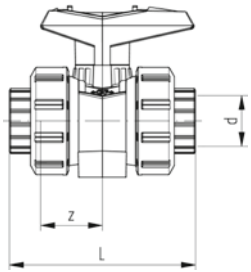
**Model:**

- **Minimum order quantity: standard packaging SP**
- For pipe clips type 061, PE black, UV resistant

| d (mm) | Inch (inch) | Code | Weight (kg) | D (mm) | L1 (mm) | L2 (mm) | H (mm) | H1 (mm) | H2 (mm) | SC |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 3/8 | **173 061 155** | 0.005 | 6 | 14 | 17 | 20 | 10 | 16 | M5 |
| 20 | 1/2 | **173 061 156** | 0.005 | 6 | 17 | 19 | 20 | 10 | 16 | M5 |
| 25 | 3/4 | **173 061 157** | 0.006 | 6 | 19 | 22 | 20 | 10 | 16 | M5 |
| 32 | 1 | **173 061 158** | 0.008 | 6 | 24 | 27 | 20 | 10 | 16 | M5 |
| 40 | 1 1/4 | **173 061 159** | 0.016 | 7 | 34 | 34 | 20 | 10 | 22 | M6 |
| 50 | 1 1/2 | **173 061 160** | 0.017 | 7 | 37 | 37 | 20 | 10 | 22 | M6 |
| 63 | 2 | **173 061 161** | 0.025 | 9 | 45 | 45 | 20 | 10 | 25 | M8 |
| 75 | 2 1/2 | **173 061 162** | 0.027 | 9 | 52 | 52 | 20 | 10 | 25 | M8 |
| 90 | 3 | **173 061 163** | 0.040 | 9 | 65 | 65 | 20 | 10 | 28 | M8 |
| 110 | 4 | **173 061 164** | 0.050 | 9 | 79 | 79 | 20 | 10 | 28 | M8 |

# Valves
## Ball Valves



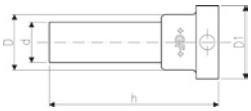



### INSTAFLEX Ball valve type 546 Pro PP
### Socket fusion / PB-flange adaptor

For portable water installations, not DVGW approved

| d (mm) | DN (mm) | PN (bar) | EPDM Code | Weight (kg) | L (mm) | z (mm) |
|---|---|---|---|---|---|---|
| 20 | 15 | 16 | **760 000 337** | 0.119 | 95 | 33 |
| 25 | 20 | 16 | **760 000 338** | 0.182 | 108 | 38 |
| 32 | 25 | 16 | **760 000 339** | 0.255 | 118 | 39 |
| 40 | 32 | 16 | **760 000 340** | 0.446 | 137 | 47 |
| 50 | 40 | 16 | **760 000 341** | 0.609 | 147 | 49 |
| 63 | 50 | 16 | **760 000 342** | 1.118 | 168 | 46 |






### INSTAFLEX Flange adaptor flat PB
### With spigot

Suitable to ball valve 546
on request

| d (mm) | Code | Weight (kg) | D (mm) | D1 (mm) | h (mm) |
|---|---|---|---|---|---|
| 20 | **761 069 627** | 0.008 | 27 | 34 | 66 |
| 25 | **761 069 628** | 0.025 | 33 | 41 | 71 |
| 32 | **761 069 629** | 0.039 | 41 | 50 | 74 |
| 40 | **761 069 630** | 0.027 | 50 | 61 | 82 |
| 50 | **761 069 631** | 0.094 | 61 | 73 | 87 |
| 63 | **761 069 632** | 0.074 | 76 | 90 | 94 |



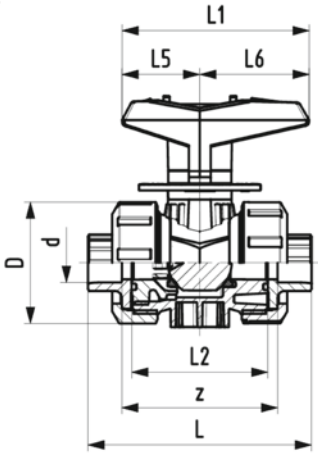
### Linear ball valve type 546 PVC-C
### With mounting inserts/With PB INSTAFLEX sockets metric

**Model:**

- Excellent control characteristics
- Designed for easy installation and removal
- Ball seat PTFE
- Angle of operation 90° with scale
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve
- Pneumatic or electric actuators from GF
- Other materials on demand




| d (mm) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 185 | **761 066 349** | 0.017 |
| 25 | 20 | 10 | 350 | **761 066 356** | 0.255 |
| 32 | 25 | 10 | 700 | **761 066 357** | 0.349 |
| 40 | 32 | 10 | 1000 | **761 066 358** | 0.648 |
| 50 | 40 | 10 | 1600 | **761 066 359** | 0.894 |
| 63 | 50 | 10 | 3100 | **761 066 278** | 1.546 |

| d (mm) | D (mm) | H (mm) | H1 (mm) | L (mm) | L1 (mm) | L2 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | z (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 57 | 27 | 95 | 77 | 56 | 25 | 32 | 45 | 64 | ½ |
| 25 | 58 | 67 | 30 | 110 | 97 | 65 | 25 | 39 | 58 | 72 | ¾ |
| 32 | 68 | 73 | 36 | 123 | 97 | 71 | 25 | 39 | 58 | 79 | 1 |
| 40 | 84 | 90 | 44 | 146 | 128 | 85 | 45 | 54 | 74 | 94 | 1 ¼ |
| 50 | 97 | 97 | 51 | 157 | 128 | 89 | 45 | 54 | 74 | 95 | 1 ½ |
| 63 | 124 | 116 | 64 | 183 | 152 | 101 | 45 | 66 | 87 | 107 | 2 |

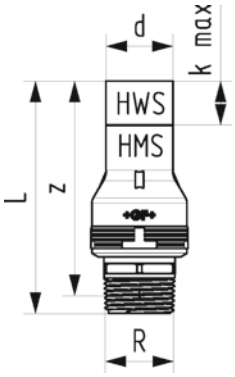
# System Adapters
## Adapters



### INSTAFLEX Adapter PB/Brass
### Socket fusion transition to male thread

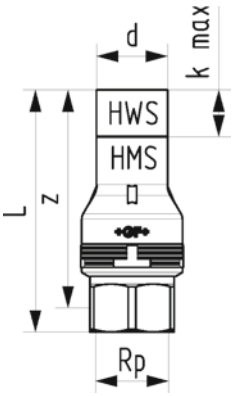
Socket fusion transition to male thread
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
Gasket: EPDM, quality for potable water

- Material: PB, Brass
- Approvals: hot- and cold water approved
- Operation pressure: 16 bars
- Brass: low lead content




| d (mm) | R (inch) | Code | Weight (kg) | L (mm) | z (mm) | k max. (mm) |
|---|---|---|---|---|---|---|
| 16 | ½ | **761 069 666** | 0.083 | 96 | 83 | 22 |
| 20 | ½ | **761 069 667** | 0.106 | 99 | 86 | 24 |
| 20 | ¾ | **761 069 668** | 0.120 | 101 | 86 | 24 |
| 25 | ¾ | **761 069 669** | 0.146 | 104 | 89 | 23 |
| 25 | 1 | **761 069 670** | 0.161 | 107 | 90 | 23 |
| 32 | 1 | **761 069 671** | 0.239 | 111 | 94 | 21 |
| 40 | 1 ¼ | **761 069 672** | 0.389 | 133 | 114 | 24 |
| 50 | 1 ½ | **761 069 673** | 0.489 | 138 | 119 | 22 |
| 63 | 2 | **761 069 674** | 0.808 | 156 | 132 | 21 |



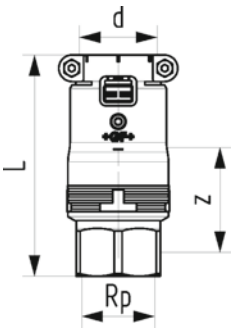



## INSTAFLEX Adapter PB/Brass
## Socket fusion transition to female thread

Socket fusion transition to female thread
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
EPDM sealing hot and cold water approved
*as long as stock last

| | d (mm) | Rp (inch) | Code | Weight (kg) | L (mm) | z (mm) | k max. (mm) |
|---|---|---|---|---|---|---|---|
| | 16 | ½ | **761 069 675** | 0.091 | 97 | 84 | 22 |
| * | 20 | ½ | **761 069 676** | 0.104 | 100 | 87 | 23 |
| | 20 | ¾ | **761 069 677** | 0.132 | 100 | 85 | 23 |
| | 25 | ¾ | **761 069 678** | 0.151 | 104 | 89 | 23 |
| | 25 | 1 | **761 069 679** | 0.189 | 108 | 91 | 23 |
| | 32 | 1 | **761 069 680** | 0.184 | 109 | 92 | 21 |
| | 40 | 1 ¼ | **761 069 681** | 0.408 | 130 | 111 | 24 |
| | 50 | 1 ½ | **761 069 682** | 0.564 | 135 | 116 | 22 |
| | 63 | 2 | **761 069 683** | 0.789 | 148 | 124 | 21 |



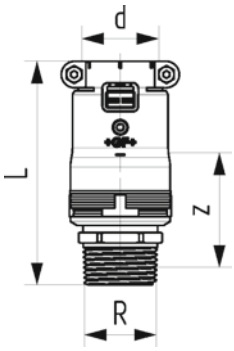



## INSTAFLEX Adapter PB/Brass
## Electro fusion transition to female thread

Electro fusion transition to female thread
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
EPDM sealing hot and cold water approved

| d (mm) | Rp (inch) | Code | Weight (kg) | L (mm) | z (mm) |
|---|---|---|---|---|---|
| 16 | ½ | **761 069 702** | 0.102 | 88 | 35 |
| 20 | ½ | **761 069 703** | 0.112 | 91 | 37 |
| 20 | ¾ | **761 069 704** | 0.137 | 91 | 35 |
| 25 | ¾ | **761 069 705** | 0.172 | 95 | 37 |
| 25 | 1 | **761 069 706** | 0.202 | 100 | 39 |
| 32 | 1 | **761 069 707** | 0.235 | 100 | 39 |
| 40 | 1 ¼ | **761 069 708** | 0.424 | 119 | 51 |
| 50 | 1 ½ | **761 069 709** | 0.591 | 124 | 56 |
| 63 | 2 | **761 069 710** | 0.836 | 142 | 65 |



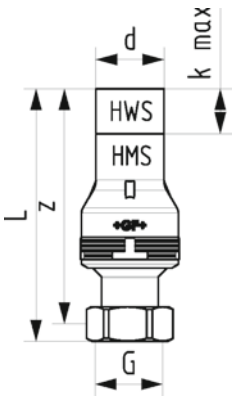



## INSTAFLEX Adapter PB/Brass
## Electro fusion transition to male thread

Electro fusion transition to male thread
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
EPDM sealing hot and cold water approved

| d (mm) | R (inch) | Code | Weight (kg) | L (mm) | z (mm) |
|---|---|---|---|---|---|
| 16 | ½ | **761 069 711** | 0.093 | 87 | 36 |
| 20 | ½ | **761 069 712** | 0.120 | 90 | 37 |
| 20 | ¾ | **761 069 713** | 0.125 | 92 | 38 |
| 25 | ¾ | **761 069 714** | 0.172 | 96 | 39 |
| 25 | 1 | **761 069 715** | 0.175 | 98 | 39 |
| 32 | 1 | **761 069 716** | 0.254 | 102 | 43 |
| 40 | 1 ¼ | **761 069 717** | 0.405 | 122 | 56 |
| 50 | 1 ½ | **761 069 718** | 0.526 | 127 | 61 |
| 63 | 2 | **761 069 719** | 0.855 | 150 | 76 |

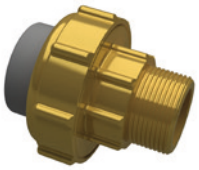


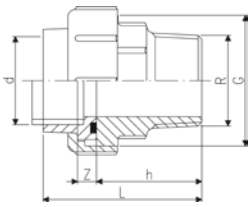



## INSTAFLEX Adapter PB/Brass Socket fusion transition to loose nut adapter concering / Flat seal

Socket fusion transition to loose nut adapter concering
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
EPDM sealing hot and cold water approved
Incl. flat seal EPDM
*as long as stock last

| | d (mm) | G (inch) | Code | Weight (kg) | L (mm) | z (mm) | k max. (mm) | L min. SF (mm) |
|---|---|---|---|---|---|---|---|---|
| | 16 | ¾ | **761 069 684** | 0.715 | 100 | 93 | 22 | 17 |
| | 20 | ¾ | **761 069 685** | 0.158 | 102 | 94 | 24 | 16 |
| | 20 | 1 | **761 069 686** | 0.171 | 107 | 98 | 24 | 16 |
| | 25 | ¾ | **761 069 687** | 0.171 | 108 | 101 | 23 | 20 |
| | 25 | 1 | **761 069 688** | 0.211 | 110 | 102 | 23 | 20 |
| | 25 | 1 ¼ | **761 069 689** | 0.274 | 118 | 109 | 23 | 20 |
| | 32 | 1 | **761 069 690** | 0.260 | 118 | 110 | 21 | 22 |
| | 32 | 1 ¼ | **761 069 691** | 0.289 | 118 | 110 | 21 | 22 |
| | 32 | 1 ½ | **761 069 692** | 0.358 | 119 | 110 | 21 | 22 |
| | 40 | 1 ¼ | **761 069 693** | 0.378 | 134 | 105 | 24 | 26 |
| | 40 | 1 ½ | **761 069 694** | 0.402 | 132 | 124 | 24 | 24 |
| | 50 | 1 ¾ | **761 069 696** | 0.607 | 142 | 131 | 22 | 28 |
| | 50 | 2 ¼ | **761 069 697** | 0.705 | 150 | 138 | 22 | 28 |
| | 63 | 2 ⅜ | **761 069 698** | 1.051 | 159 | 147 | 21 | 30 |



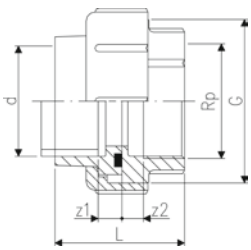



## INSTAFLEX Adapter union PB/Brass
## Socket / Male thread

Including EPDM O-Ring, quality suitable for potable water

| d (mm) | R (inch) | GF Code | G (inch) | L (mm) | h (mm) | z (mm) |
|---|---|---|---|---|---|---|
| 16 | ½ | **760 857 155** | 1 | 61 | 38 | 8 |
| 20 | ½ | **760 857 156** | 1 ¼ | 63 | 40 | 8 |
| 25 | ¾ | **760 857 157** | 1 ½ | 67 | 41 | 8 |
| 32 | 1 | **760 857 158** | 2 | 73 | 45 | 8 |
| 40 | 1 ¼ | **760 857 159** | 2 ½ | 80 | 48 | 10 |
| 50 | 1 ½ | **760 857 160** | 2 ¾ | 83 | 48 | 10 |
| 63 | 2 | **760 857 161** | 3 ½ | 92 | 54 | 10 |



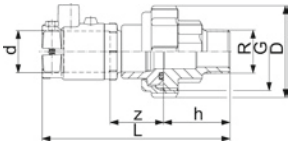



## INSTAFLEX Adapter union PB/Brass
## Socket / Female thread

Including EPDM O-Ring, quality suitable for potable water
*previous article (761066705) is still available

| | d (mm) | Rp (inch) | Code | L (mm) | z1 (mm) | z2 (mm) | G (inch) |
|---|---|---|---|---|---|---|---|
| * | 16 | ½ | **760 857 162** | 45 | 8 | 9 | 1 |
| | 20 | ½ | **760 857 163** | 47 | 8 | 10 | 11/4 |
| | 25 | ¾ | **760 857 164** | 50 | 8 | 9 | 11/2 |
| | 32 | 1 | **760 857 165** | 53 | 8 | 8 | 2 |
| | 40 | 1 ¼ | **760 857 166** | 58 | 10 | 7 | 21/2 |
| | 50 | 1 ½ | **760 857 167** | 61 | 10 | 7 | 23/4 |
| | 63 | 2 | **760 857 168** | 66 | 10 | 9 | 31/2 |



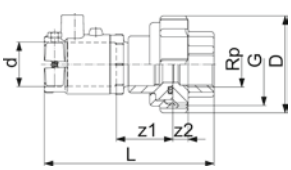



## INSTAFLEX Adapter union PB/Brass
## Electro fusion / Male thread

Including EPDM O-Ring, quality suitable for potable water

| d (mm) | R (inch) | GF Code | D (mm) | L (mm) | G (inch) | h (mm) | z (mm) |
|---|---|---|---|---|---|---|---|
| 16 | ½ | **760 857 214** | 41 | 106 | 1 | 38 | 31 |
| 20 | ½ | **760 857 215** | 50 | 109 | 1 ¼ | 40 | 30 |
| 25 | ¾ | **760 857 216** | 56 | 116 | 1 ½ | 41 | 33 |
| 32 | 1 | **760 857 217** | 69 | 124 | 2 | 45 | 37 |
| 40 | 1 ¼ | **760 857 218** | 83 | 137 | 2 ½ | 48 | 42 |
| 50 | 1 ½ | **760 857 219** | 90 | 143 | 2 ¾ | 48 | 46 |
| 63 | 2 | **760 857 220** | 110 | 158 | 3 ½ | 54 | 53 |



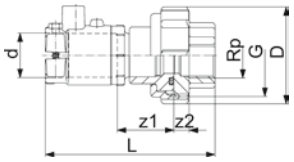



## INSTAFLEX Adapter union PB/Brass
## Electro fusion / Female thread

Including EPDM O-Ring, quality suitable for potable water

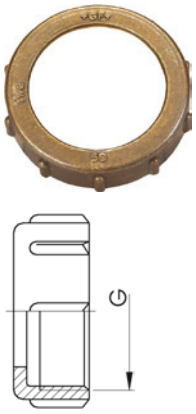
| d (mm) | Rp (inch) | Code | D (mm) | L (mm) | G (inch) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|
| 16 | ½ | **760 857 221** | 41 | 90 | 1 | 31 | 9 |
| 20 | ½ | **760 857 222** | 50 | 93 | 1 ¼ | 30 | 10 |
| 25 | ¾ | **760 857 223** | 56 | 99 | 1 ½ | 33 | 9 |

table continued on the next page




| d (mm) | Rp (inch) | Code | D (mm) | L (mm) | G (inch) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|
| 32 | 1 | **760 857 224** | 69 | 104 | 2 | 37 | 8 |
| 40 | 1 ¼ | **760 857 225** | 83 | 115 | 2 ½ | 42 | 7 |
| 50 | 1 ½ | **760 857 226** | 90 | 121 | 2 ¾ | 46 | 7 |
| 63 | 2 | **760 857 227** | 110 | 132 | 3 ½ | 53 | 5 |

# Accessories




### INSTAFLEX Union nut

Suitable for flange or union nut

| d (mm) | G (inch) | Code | Weight (kg) |
|---|---|---|---|
| 16 | 1 | **761 066 188** | 0.090 |
| 20 | 1 ¼ | **761 066 100** | 0.100 |
| 25 | 1 ½ | **761 066 101** | 0.104 |
| 32 | 2 | **761 066 102** | 0.142 |
| 40 | 2 ½ | **761 066 103** | 0.226 |
| 50 | 2 ¾ | **761 066 104** | 0.261 |
| 63 | 3 ½ | **761 066 105** | 0.334 |

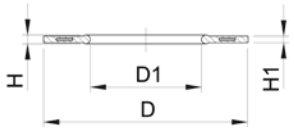



### INSTAFLEX O-ring

Quality suitable for potable water

| d (mm) | Code | Weight (kg) | d1 (mm) | D (mm) | H (mm) |
|---|---|---|---|---|---|
| 16 | **761 066 558** | 0.002 | 19 | 26 | 4 |
| 20 | **761 066 124** | 0.002 | 23 | 31 | 4 |
| 25 | **761 066 125** | 0.001 | 28 | 35 | 4 |
| 32 | **761 066 126** | 0.001 | 36 | 43 | 4 |
| 40 | **761 066 127** | 0.004 | 44 | 55 | 5 |
| 50 | **761 066 128** | 0.001 | 53 | 64 | 5 |
| 63 | **761 066 129** | 0.002 | 69 | 80 | 5 |
| 75 | **761 070 036** | 0.007 | 82 | 93 | 5 |
| 90 | **761 070 037** | 0.008 | 101 | 112 | 5 |
| 110 | **761 070 038** | 0.016 | 120 | 134 | 7 |






### Profile flange gasket EPDM/FKM metric
### For flange adaptors without chamfer

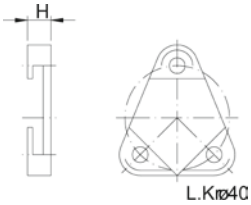
**Model:**

- For flange adaptor No. 27 79 85 PP-H SDR11 without chamfer
- Profile Gasket with carbon steel insert (type G-ST-P/K)
- Hardness: 70° shore **EPDM**, 75° shore **FKM**

| d (mm) | DN (mm) | PN (bar) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) | D (mm) | D1 (mm) | di FA (mm) | H (mm) | H1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 15 | 16 | **748 440 706** | 0.009 | **749 440 706** | 0.013 | 51 | 20 | 10 - 20 | 4 | 3 |
| 25 | 20 | 16 | **748 440 707** | 0.015 | **749 440 707** | 0.014 | 61 | 22 | 12 - 22 | 4 | 3 |
| 32 | 25 | 16 | **748 440 708** | 0.013 | **749 440 708** | 0.019 | 71 | 28 | 18 - 28 | 4 | 3 |
| 40 | 32 | 16 | **748 440 709** | 0.019 | **749 440 709** | 0.026 | 82 | 40 | 30 - 40 | 4 | 3 |
| 50 | 40 | 16 | **748 440 710** | 0.029 | **749 440 710** | 0.039 | 92 | 46 | 36 - 46 | 4 | 3 |
| 63 | 50 | 16 | **748 440 711** | 0.041 | **749 440 711** | 0.050 | 107 | 58 | 48 - 58 | 5 | 4 |
| 75 | 65 | 16 | **748 440 712** | 0.053 | **749 440 712** | 0.082 | 127 | 69 | 59 - 69 | 5 | 4 |
| 90 | 80 | 16 | **748 440 713** | 0.064 | **749 440 713** | 0.083 | 142 | 84 | 73 - 84 | 5 | 4 |

# Pipe Outlets





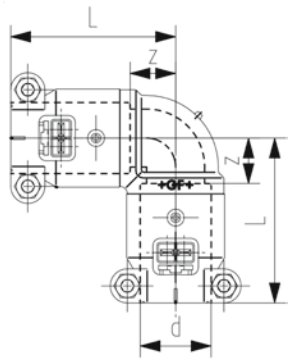

### INSTAFLEX Rubber isolator
### For pipe outlets

Suitable for dual pipe outlets

| H (mm) | Code | Weight (kg) | z (mm) |
|---|---|---|---|
| 9 | **760 856 205** | 0.007 | 3 |

# Electrofusion jointing HWS
## Fittings



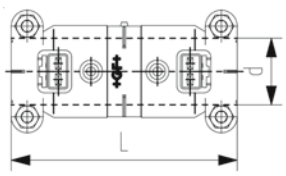



### INSTAFLEX Elektro fusion Elbow 90° PB

- Material: PB
- Approvals: hot- and cold water approved
- Operation pressure: 16 bars
- No elastomer components contained

| d (mm) | Code | Weight (kg) | L (mm) | z (mm) |
|---|---|---|---|---|
| 16 | **761 069 214** | 0.023 | 47 | 10 |
| 20 | **761 069 215** | 0.027 | 54 | 14 |
| 25 | **761 069 216** | 0.039 | 58 | 16 |
| 32 | **761 069 217** | 0.079 | 60 | 18 |
| 40 | **761 069 218** | 0.128 | 69 | 22 |
| 50 | **761 069 219** | 0.206 | 78 | 29 |
| 63 | **761 069 220** | 0.328 | 86 | 36 |
| 75 | **761 069 221** | 0.515 | 112 | 45 |
| 90 | **761 069 222** | 0.811 | 127 | 54 |
| 110 | **761 069 223** | 1.330 | 146 | 66 |






### INSTAFLEX Electro fusion coupler PB

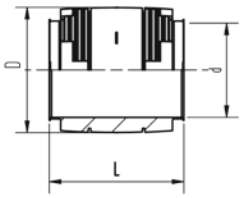
Suitable as sliding coupling

| d (mm) | Code | Weight (kg) | L (mm) |
|---|---|---|---|
| 16 | **761 069 200** | 0.023 | 76 |
| 20 | **761 069 201** | 0.027 | 80 |
| 25 | **761 069 202** | 0.041 | 85 |
| 32 | **761 069 203** | 0.053 | 85 |
| 40 | **761 069 204** | 0.084 | 95 |
| 50 | **761 069 205** | 0.121 | 99 |
| 63 | **761 069 206** | 0.184 | 102 |
| 75 | **761 069 265** | 0.317 | 134 |
| 90 | **761 069 266** | 0.519 | 147 |
| 110 | **761 069 267** | 0.766 | 160 |



## INSTAFLEX Electro fusion coupler PB

| d (mm) | Code | Weight (kg) | L (mm) |
|---|---|---|---|
| 125 | **761 069 555** | 1.565 | 186 |
| 160 | **761 069 556** | 1.397 | 190 |
| 225 | **761 069 557** | 4.472 | 220 |

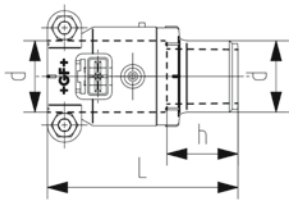





## INSTAFLEX Electro fusion adaptor polybuten

Transition to socket fusion - HMS
- Material: Polybutene (grey)

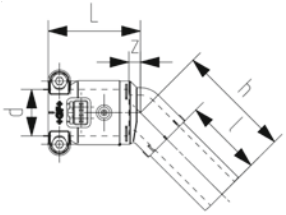
| d (mm) | Code | Weight (kg) | L (mm) | h (mm) |
|---|---|---|---|---|
| 16 | **761 069 207** | 0.026 | 60 | 23 |
| 20 | **761 069 208** | 0.017 | 61 | 22 |
| 25 | **761 069 209** | 0.026 | 67 | 25 |
| 32 | **761 069 210** | 0.037 | 71 | 29 |
| 40 | **761 069 211** | 0.060 | 79 | 32 |
| 50 | **761 069 212** | 0.095 | 85 | 36 |
| 63 | **761 069 213** | 0.151 | 94 | 43 |



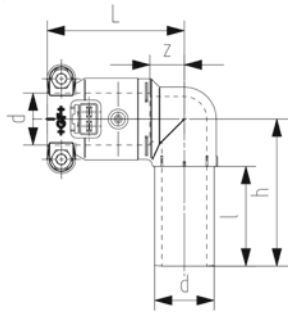



## INSTAFLEX Electro fusion Elbow 45° PB
## With socket-spigot

| d (mm) | Code | Weight (kg) | L (mm) | l (mm) | h (mm) | z (mm) |
|---|---|---|---|---|---|---|
| 16 | **761 069 447** | 0.014 | 44 | 38 | 50 | 6 |
| 20 | **761 069 448** | 0.030 | 46 | 40 | 54 | 7 |
| 25 | **761 069 449** | 0.042 | 50 | 42 | 57 | 8 |
| 32 | **761 069 450** | 0.055 | 51 | 42 | 60 | 9 |
| 40 | **761 069 451** | 0.098 | 58 | 47 | 67 | 11 |
| 50 | **761 069 452** | 0.156 | 63 | 49 | 75 | 14 |
| 63 | **761 069 453** | 0.242 | 68 | 51 | 79 | 17 |



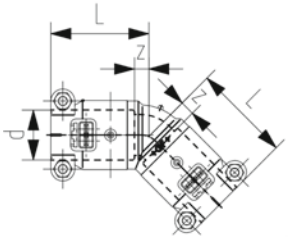





## INSTAFLEX Elbow 90° PB
## With socket-spigot

| d (mm) | Code | Weight (kg) | L (mm) | l (mm) | h (mm) | z (mm) |
|---|---|---|---|---|---|---|
| 16 | **761 069 434** | 0.025 | 47 | 40 | 53 | 10 |
| 20 | **761 069 435** | 0.035 | 54 | 40 | 58 | 14 |
| 25 | **761 069 436** | 0.047 | 58 | 42 | 62 | 16 |
| 32 | **761 069 437** | 0.071 | 60 | 42 | 66 | 18 |
| 40 | **761 069 438** | 0.113 | 69 | 47 | 77 | 22 |
| 50 | **761 069 439** | 0.181 | 78 | 49 | 85 | 29 |
| 63 | **761 069 440** | 0.290 | 86 | 51 | 96 | 36 |

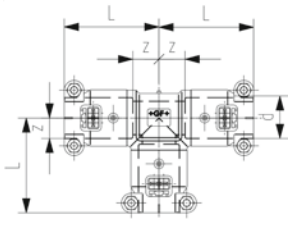





## INSTAFLEX Electro fusion Elbow 45° PB

| d (mm) | Code | Weight (kg) | L (mm) | z (mm) |
|---|---|---|---|---|
| 16 | **761 069 227** | 0.033 | 44 | 6 |
| 20 | **761 069 228** | 0.027 | 46 | 7 |
| 25 | **761 069 229** | 0.039 | 50 | 8 |
| 32 | **761 069 230** | 0.059 | 51 | 9 |
| 40 | **761 069 231** | 0.070 | 58 | 11 |
| 50 | **761 069 232** | 0.147 | 63 | 14 |
| 63 | **761 069 233** | 0.275 | 68 | 17 |
| 75 | **761 069 234** | 0.451 | 88 | 21 |
| 90 | **761 069 235** | 0.700 | 98 | 25 |
| 110 | **761 069 236** | 1.098 | 111 | 31 |



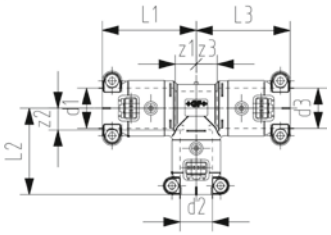



## INSTAFLEX Electro fusion T-piece polybuten 90°

| d (mm) | Code | Weight (kg) | L (mm) | z (mm) |
|---|---|---|---|---|
| 16 | **761 069 237** | 0.053 | 47 | 10 |
| 20 | **761 069 238** | 0.067 | 54 | 14 |
| 25 | **761 069 239** | 0.089 | 58 | 16 |
| 32 | **761 069 240** | 0.116 | 60 | 18 |
| 40 | **761 069 241** | 0.185 | 69 | 22 |
| 50 | **761 069 242** | 0.290 | 78 | 29 |
| 63 | **761 069 243** | 0.452 | 86 | 36 |
| 75 | **761 069 244** | 0.747 | 112 | 45 |
| 90 | **761 069 245** | 0.890 | 127 | 54 |
| 110 | **761 069 246** | 2.140 | 146 | 66 |

## INSTAFLEX Tee 90° reducer PB

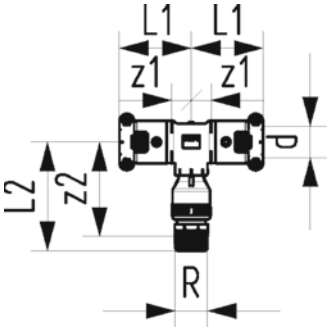





| d1 (mm) | d2 (mm) | d3 (mm) | Code | Weight (kg) | L1 (mm) | L2 (mm) | L3 (mm) | z1 (mm) | z2 (mm) | z3 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 16 | 16 | **761 069 249** | 0.058 | 54 | 47 | 47 | 14 | 10 | 10 |
| 20 | 16 | 20 | **761 069 250** | 0.041 | 54 | 49 | 54 | 14 | 11 | 14 |
| 25 | 16 | 25 | **761 069 251** | 0.082 | 58 | 54 | 58 | 16 | 16 | 16 |
| 25 | 20 | 20 | **761 069 256** | 0.079 | 58 | 54 | 54 | 16 | 14 | 14 |
| 25 | 20 | 25 | **761 069 252** | 0.079 | 58 | 54 | 58 | 16 | 14 | 16 |
| 25 | 25 | 20 | **761 069 257** | 0.081 | 58 | 58 | 54 | 16 | 16 | 14 |
| 32 | 20 | 32 | **761 069 253** | 0.088 | 60 | 58 | 60 | 18 | 18 | 18 |
| 32 | 25 | 25 | **761 069 258** | 0.098 | 60 | 58 | 58 | 18 | 16 | 16 |
| 32 | 25 | 32 | **761 069 254** | 0.095 | 60 | 58 | 60 | 18 | 16 | 18 |
| 40 | 20 | 40 | **761 069 259** | 0.157 | 69 | 63 | 69 | 22 | 23 | 22 |
| 40 | 25 | 40 | **761 069 255** | 0.170 | 69 | 63 | 69 | 22 | 21 | 22 |
| 40 | 32 | 40 | **761 069 260** | 0.168 | 69 | 63 | 69 | 22 | 21 | 22 |
| 50 | 25 | 50 | **761 069 261** | 0.246 | 78 | 72 | 78 | 29 | 30 | 29 |
| 50 | 32 | 50 | **761 069 262** | 0.260 | 78 | 72 | 78 | 29 | 30 | 29 |
| 63 | 25 | 63 | **761 069 263** | 0.360 | 86 | 81 | 86 | 36 | 39 | 36 |
| 63 | 40 | 63 | **761 069 264** | 0.384 | 86 | 85 | 86 | 36 | 38 | 36 |

## INSTAFLEX Adapter Tee PB/Brass
## Electro fusion Tee transition to male thread



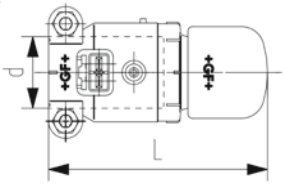



Electro fusion T-piece with transition to male thread
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
EPDM sealing hot and cold water approved

| d (mm) | R (inch) | Code | Weight (kg) | L1 (mm) | L2 (mm) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|
| 25 | ¾ | **761 069 738** | 0.222 | 58 | 88 | 16 | 73 |
| 32 | 1 | **761 069 739** | 0.246 | 60 | 97 | 18 | 80 |

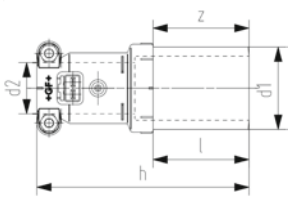
## INSTAFLEX Cap PB






| d (mm) | Code | Weight (kg) | L (mm) |
|---|---|---|---|
| 16 | **761 069 270** | 0.022 | 67 |
| 20 | **761 069 271** | 0.025 | 70 |
| 25 | **761 069 272** | 0.036 | 77 |
| 32 | **761 069 273** | 0.054 | 83 |
| 40 | **761 069 274** | 0.095 | 95 |
| 50 | **761 069 275** | 0.153 | 104 |
| 63 | **761 069 276** | 0.265 | 116 |





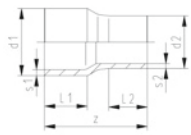

### INSTAFLEX Electro fusion reducer polybutene

- Material: Polybutene (grey)

*as long as stock last

| | d1 (mm) | d2 (mm) | Code | Weight (kg) | l (mm) | h (mm) | z (mm) |
|---|---|---|---|---|---|---|---|
| | 20 | 16 | **761 069 277** | 0.023 | 40 | 83 | 45 |
| | 25 | 16 | **761 069 278** | 0.026 | 42 | 83 | 46 |
| | 25 | 20 | **761 069 279** | 0.026 | 42 | 86 | 47 |
| | 32 | 16 | **761 069 457** | 0.033 | 42 | 86 | 48 |
| | 32 | 20 | **761 069 280** | 0.030 | 42 | 84 | 45 |
| | 32 | 25 | **761 069 281** | 0.038 | 42 | 89 | 47 |
| | 40 | 20 | **761 069 458** | 0.055 | 47 | 102 | 62 |
| | 40 | 25 | **761 069 459** | 0.060 | 47 | 104 | 62 |
| | 40 | 32 | **761 069 282** | 0.060 | 47 | 95 | 53 |
| | 50 | 20 | **761 069 460** | 0.070 | 49 | 102 | 62 |
| | 50 | 25 | **761 069 461** | 0.075 | 49 | 104 | 62 |
| | 50 | 32 | **761 069 462** | 0.075 | 49 | 95 | 53 |
| | 50 | 40 | **761 069 283** | 0.091 | 49 | 103 | 56 |
| | 63 | 25 | **761 069 464** | 0.109 | 51 | 104 | 62 |
| | 63 | 32 | **761 069 284** | 0.101 | 51 | 95 | 53 |
| | 63 | 40 | **761 069 465** | 0.121 | 51 | 103 | 56 |
| | 63 | 50 | **761 069 285** | 0.141 | 51 | 106 | 57 |
| | 75 | 63 | **761 069 286** | 0.232 | 67 | 129 | 78 |
| | 90 | 63 | **761 069 287** | 0.289 | 74 | 128 | 77 |
| | 90 | 75 | **761 069 288** | 0.354 | 74 | 143 | 76 |
| | 110 | 63 | **761 069 289** | 0.414 | 80 | 135 | 84 |
| | 110 | 75 | **761 069 290** | 0.464 | 80 | 150 | 83 |
| | 110 | 90 | **761 069 291** | 0.576 | 80 | 165 | 92 |





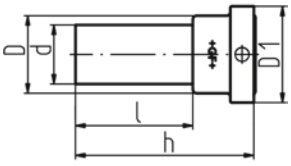

### INSTAFLEX Reducer PB

- Material: PB

| | d1 (mm) | d2 (mm) | Code | Weight (kg) | L1 (mm) | L2 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|
| | 125 | 110 | **761 065 267** | 0.729 | 92 | 85 | 215 |
| | 160 | 125 | **761 065 268** | 1.263 | 102 | 92 | 245 |
| | 225 | 160 | **761 065 269** | 2.800 | 122 | 102 | 280 |
| | 315 | 225 | **761 065 322** | 7.933 | 154 | 125 | 377 |

## Flange Adapters



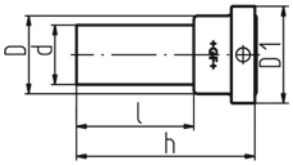



### INSTAFLEX Flange adaptor with grove PB
### With spigot for electrofusion fittings

Suitable for flange or union nut
Including EPDM O-Ring, quality suitable for potable water
* on request

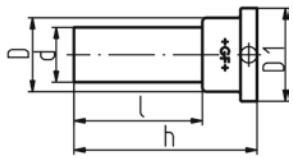
| | d (mm) | Code | Weight (kg) | D (mm) | D1 (mm) | l (mm) | h (mm) |
|---|---|---|---|---|---|---|---|
| * | 20 | **761 069 307** | 0.018 | 27 | 34 | 47 | 70 |
| * | 25 | **761 069 308** | 0.023 | 33 | 41 | 50 | 76 |
| * | 32 | **761 069 309** | 0.039 | 41 | 50 | 50 | 78 |
| * | 40 | **761 069 310** | 0.061 | 50 | 61 | 56 | 88 |
| * | 50 | **761 069 311** | 0.096 | 61 | 73 | 58 | 93 |

table continued on the next page




| | d (mm) | Code | Weight (kg) | D (mm) | D1 (mm) | l (mm) | h (mm) |
|---|---|---|---|---|---|---|---|
| * | 63 | **761 069 312** | 0.160 | 76 | 90 | 60 | 98 |
| * | 75 | **761 069 313** | 0.343 | 90 | 106 | 118 | 158 |
| * | 90 | **761 069 314** | 0.515 | 109 | 125 | 125 | 172 |
| * | 110 | **761 069 315** | 0.840 | 131 | 150 | 131 | 186 |





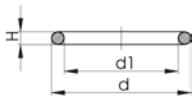

### INSTAFLEX Flange adaptor flat PB
### With spigot for electro fusion

Suitable for flange or union nut
* on request

| | d (mm) | Code | Weight (kg) | D (mm) | D1 (mm) | l (mm) | h (mm) |
|---|---|---|---|---|---|---|---|
| * | 20 | **761 069 321** | 0.017 | 27 | 34 | 45 | 67 |
| * | 25 | **761 069 322** | 0.021 | 33 | 41 | 50 | 73 |
| * | 32 | **761 069 323** | 0.034 | 41 | 50 | 50 | 75 |
| * | 40 | **761 069 324** | 0.066 | 50 | 61 | 56 | 83 |
| * | 50 | **761 069 325** | 0.091 | 61 | 73 | 58 | 88 |
| | 63 | **761 069 326** | 0.172 | 76 | 90 | 60 | 93 |
| | 75 | **761 069 327** | 0.311 | 90 | 106 | 118 | 153 |
| | 90 | **761 069 328** | 0.469 | 109 | 125 | 125 | 167 |
| | 110 | **761 069 329** | 0.770 | 131 | 150 | 131 | 180 |

## Accessories

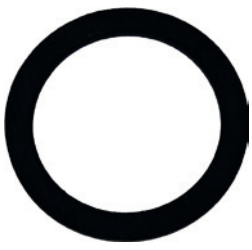


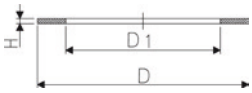



### INSTAFLEX O-ring

Quality suitable for potable water

| d (mm) | Code | Weight (kg) | d1 (mm) | D (mm) | H (mm) |
|---|---|---|---|---|---|
| 16 | **761 066 558** | 0.002 | 19 | 26 | 4 |
| 20 | **761 066 124** | 0.002 | 23 | 31 | 4 |
| 25 | **761 066 125** | 0.001 | 28 | 35 | 4 |
| 32 | **761 066 126** | 0.001 | 36 | 43 | 4 |
| 40 | **761 066 127** | 0.004 | 44 | 55 | 5 |
| 50 | **761 066 128** | 0.001 | 53 | 64 | 5 |
| 63 | **761 066 129** | 0.002 | 69 | 80 | 5 |
| 75 | **761 070 036** | 0.007 | 82 | 93 | 5 |
| 90 | **761 070 037** | 0.008 | 101 | 112 | 5 |
| 110 | **761 070 038** | 0.016 | 120 | 134 | 7 |





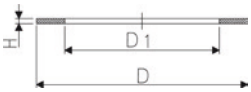

### Flat gasket
### For tank adaptors

**Model:**

- Hardness approx. 65° Shore
- For adaptor unions

| Size (inch) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) | D (mm) | D1 (mm) | H (mm) |
|---|---|---|---|---|---|---|---|
| ¼ | **748 400 004** | 0.002 | | | 20 | 13 | 2 |
| ⅜ | **748 400 005** | 0.002 | **749 400 005** | 0.020 | 24 | 17 | 2 |
| ½ | **748 400 006** | 0.002 | **749 400 006** | 0.003 | 30 | 21 | 3 |
| ¾ | **748 400 007** | 0.003 | **749 400 007** | 0.004 | 38 | 27 | 3 |
| 1 | **748 400 008** | 0.010 | **749 400 008** | 0.002 | 44 | 32 | 3 |
| 1 ¼ | **748 400 009** | 0.007 | **749 400 009** | 0.003 | 55 | 42 | 3 |

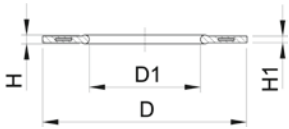
table continued on the next page




| Size (inch) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) | D (mm) | D1 (mm) | H (mm) |
|---|---|---|---|---|---|---|---|
| 1 ½ | **748 400 010** | 0.004 | **749 400 010** | 0.007 | 62 | 46 | 3 |
| 2 | **748 400 011** | 0.005 | **749 400 011** | 0.006 | 78 | 60 | 3 |
| 2 ½ | **748 400 012** | 0.010 | **749 400 012** | 0.009 | 97 | 75 | 3 |
| 3 | **748 400 013** | 0.011 | **749 400 013** | 0.011 | 109 | 88 | 3 |

# Flanges





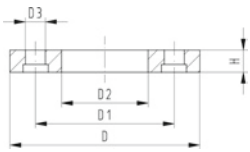

**Profile flange gasket EPDM/FKM**
**metric**
**For flange adaptors without chamfer**

**Model:**

- For flange adaptor No. 27 79 85 PP-H SDR11 without chamfer
- Profile Gasket with carbon steel insert (type G-ST-P/K)
- Hardness: 70° shore **EPDM**, 75° shore **FKM**

| d (mm) | DN (mm) | PN (bar) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) | D (mm) | D1 (mm) | di FA (mm) | H (mm) | H1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 15 | 16 | **748 440 706** | 0.009 | **749 440 706** | 0.013 | 51 | 20 | 10 - 20 | 4 | 3 |
| 25 | 20 | 16 | **748 440 707** | 0.015 | **749 440 707** | 0.014 | 61 | 22 | 12 - 22 | 4 | 3 |
| 32 | 25 | 16 | **748 440 708** | 0.013 | **749 440 708** | 0.019 | 71 | 28 | 18 - 28 | 4 | 3 |
| 40 | 32 | 16 | **748 440 709** | 0.019 | **749 440 709** | 0.026 | 82 | 40 | 30 - 40 | 4 | 3 |
| 50 | 40 | 16 | **748 440 710** | 0.029 | **749 440 710** | 0.039 | 92 | 46 | 36 - 46 | 4 | 3 |
| 63 | 50 | 16 | **748 440 711** | 0.041 | **749 440 711** | 0.050 | 107 | 58 | 48 - 58 | 5 | 4 |
| 75 | 65 | 16 | **748 440 712** | 0.053 | **749 440 712** | 0.082 | 127 | 69 | 59 - 69 | 5 | 4 |
| 90 | 80 | 16 | **748 440 713** | 0.064 | **749 440 713** | 0.083 | 142 | 84 | 73 - 84 | 5 | 4 |





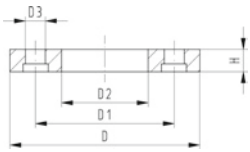

## INSTAFLEX Backing flanges

Material: Casting, GFK coated
Suitable for flange adaptor
Tighten the screws with torque as indicated
Commercially available scews, nuts, washers
* on request

| | d (mm) | Code | Weight (kg) |
|---|---|---|---|
| * | 20 | **761 065 270** | 0.378 |
| * | 25 | **761 065 271** | 0.463 |
| | 32 | **761 065 272** | 0.412 |
| | 40 | **761 065 273** | 0.551 |
| | 50 | **761 065 274** | 0.747 |
| | 63 | **761 065 275** | 0.842 |
| | 75 | **761 065 276** | 1.131 |
| | 90 | **761 065 277** | 1.092 |
| | 110 | **761 065 278** | 1.465 |

| | d (mm) | D (mm) | D1 (mm) | D2 (mm) | D3 (mm) | H (mm) | Tightening torque (mm) | PN (bar) | ○ | SC |
|---|---|---|---|---|---|---|---|---|---|---|
| * | 20 | 106 | 65 | 28 | 14 | 18 | 10 | 16 | 4 | M 12x 70 |
| * | 25 | 118 | 75 | 34 | 14 | 18 | 15 | 16 | 4 | M 12x 75 |
| | 32 | 122 | 85 | 42 | 14 | 17 | 15 | 16 | 4 | M 12x 75 |
| | 40 | 142 | 100 | 51 | 18 | 17 | 20 | 16 | 4 | M 16x 80 |
| | 50 | 156 | 110 | 62 | 18 | 19 | 25 | 16 | 4 | M 16x 85 |
| | 63 | 171 | 125 | 78 | 18 | 20 | 35 | 16 | 4 | M 16x 85 |
| | 75 | 191 | 145 | 92 | 18 | 21 | 40 | 16 | 4 | M 16x 90 |
| | 90 | 206 | 160 | 110 | 18 | 21 | 40 | 16 | 8 | M 16x 90 |
| | 110 | 226 | 180 | 133 | 18 | 22 | 50 | 16 | 8 | M 16x 95 |





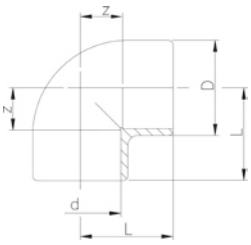

## INSTAFLEX Backing flanges

Material: Casting, GFK coated
Suitable for flange adaptor
Tighten the screws with torque as indicated
Commercially available scews, nuts, washers

| d (mm) | Code | Weight (kg) | D (mm) | D1 (mm) | D2 (mm) | D3 (mm) | H (mm) | AL | Screws | Tightening torque (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 125 | **761 065 279** | 1.284 | 226 | 180 | 135 | 18 | 23 | 8 | M16 x 130 | 50 |
| 160 | **761 065 280** | 2.406 | 296 | 240 | 178 | 22 | 28 | 8 | M20 x 140 | 60 |
| 225 | **761 065 281** | 3.600 | 350 | 295 | 238 | 22 | 31 | 8 | M20 x 160 | 75 |

# Socket fusion jointing HMS
## Fittings

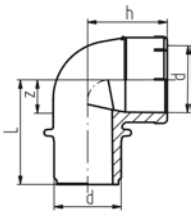





### INSTAFLEX Elbow 90° PB

| d (mm) | Code | Weight (kg) | D (mm) | L (mm) | z (mm) |
|---|---|---|---|---|---|
| 16 | **761 066 600** | 0.014 | 22 | 25 | 10 |
| 20 | **761 066 601** | 0.015 | 26 | 28 | 13 |
| 25 | **761 066 602** | 0.020 | 32 | 32 | 14 |
| 32 | **761 066 603** | 0.035 | 40 | 38 | 18 |
| 40 | **761 066 604** | 0.080 | 51 | 44 | 22 |
| 50 | **761 066 605** | 0.116 | 64 | 51 | 26 |
| 63 | **761 066 606** | 0.217 | 81 | 62 | 34 |
| 75 | **761 066 607** | 0.303 | 91 | 75 | 44 |
| 90 | **761 066 608** | 0.466 | 108 | 88 | 52 |
| 110 | **761 066 609** | 0.856 | 132 | 105 | 63 |

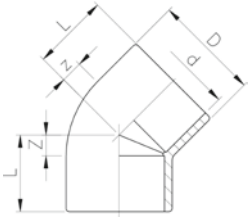





### INSTAFLEX Elbow 90° PB
### With socket-spigot

| d (mm) | Code | Weight (kg) | D (mm) | L (mm) | h (mm) | z (mm) |
|---|---|---|---|---|---|---|
| 16 | **761 066 900** | 0.009 | 22 | 34 | 25 | 10 |
| 20 | **761 066 901** | 0.012 | 26 | 36 | 28 | 13 |
| 25 | **761 066 902** | 0.021 | 32 | 44 | 32 | 14 |
| 32 | **761 066 903** | 0.037 | 40 | 50 | 38 | 18 |
| 40 | **761 066 904** | 0.067 | 51 | 58 | 44 | 22 |
| 50 | **761 066 905** | 0.122 | 64 | 70 | 51 | 26 |
| 63 | **761 066 906** | 0.233 | 81 | 82 | 62 | 34 |

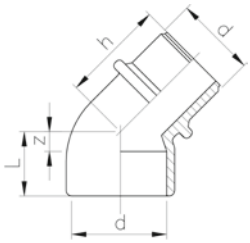





### INSTAFLEX Elbow 45° PB

| d (mm) | Code | Weight (kg) | D (mm) | L (mm) | z (mm) |
|---|---|---|---|---|---|
| 16 | **761 066 610** | 0.080 | 22 | 21 | 6 |
| 20 | **761 066 611** | 0.016 | 26 | 22 | 7 |
| 25 | **761 066 612** | 0.026 | 32 | 25 | 7 |
| 32 | **761 066 613** | 0.030 | 40 | 30 | 10 |
| 40 | **761 066 614** | 0.064 | 51 | 34 | 12 |
| 50 | **761 066 615** | 0.093 | 64 | 39 | 14 |
| 63 | **761 066 616** | 0.145 | 81 | 45 | 17 |
| 75 | **761 066 617** | 0.223 | 92 | 51 | 20 |
| 90 | **761 066 618** | 0.337 | 109 | 58 | 22 |
| 110 | **761 066 619** | 0.616 | 134 | 68 | 26 |

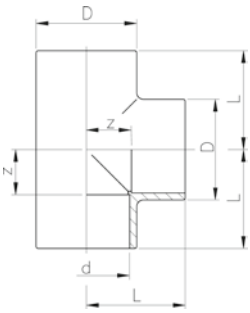





## INSTAFLEX Elbow 45° PB
## With socket-spigot

| d (mm) | Code | Weight (kg) | D (mm) | L (mm) | h (mm) | z (mm) |
|---|---|---|---|---|---|---|
| 16 | **761 066 907** | 0.008 | 22 | 21 | 29 | 6 |
| 20 | **761 066 908** | 0.011 | 26 | 22 | 30 | 7 |
| 25 | **761 066 909** | 0.017 | 32 | 25 | 35 | 7 |
| 32 | **761 066 910** | 0.032 | 40 | 30 | 40 | 10 |
| 40 | **761 066 911** | 0.284 | 51 | 34 | 46 | 12 |
| 50 | **761 066 912** | 0.101 | 64 | 39 | 53 | 14 |
| 63 | **761 066 913** | 0.258 | 81 | 45 | 62 | 17 |

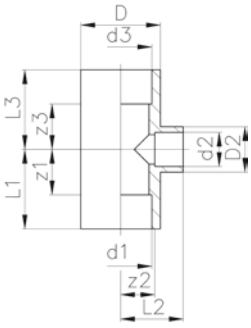





## INSTAFLEX Tee 90° equal PB

| d (mm) | Code | Weight (kg) | D (mm) | L (mm) | z (mm) |
|---|---|---|---|---|---|
| 16 | **761 066 620** | 0.017 | 22 | 25 | 10 |
| 20 | **761 066 621** | 0.025 | 26 | 28 | 13 |
| 25 | **761 066 622** | 0.036 | 32 | 32 | 14 |
| 32 | **761 066 623** | 0.045 | 40 | 38 | 18 |
| 40 | **761 066 624** | 0.105 | 51 | 44 | 22 |
| 50 | **761 066 625** | 0.147 | 64 | 51 | 26 |
| 63 | **761 066 626** | 0.315 | 81 | 62 | 34 |
| 75 | **761 066 627** | 0.375 | 91 | 75 | 44 |
| 90 | **761 066 628** | 0.694 | 112 | 88 | 52 |
| 110 | **761 066 629** | 1.120 | 132 | 105 | 63 |



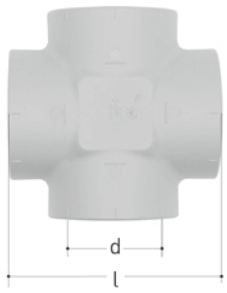


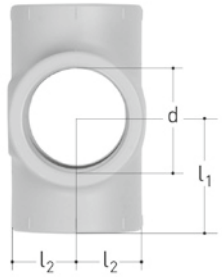

## INSTAFLEX Tee 90° reduced PB

| d1 (mm) | d2 (mm) | d3 (mm) | Code | Weight (kg) | D (mm) | D2 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | z1 (mm) | z2 (mm) | z3 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 16 | 20 | **761 066 914** | 0.015 | 26 | 22 | 28 | 28 | 28 | 13 | 13 | 13 |
| 20 | 16 | 16 | **761 066 915** | 0.016 | 26 | 22 | 28 | 28 | 28 | 13 | 13 | 13 |
| 20 | 20 | 16 | **761 066 916** | 0.017 | 26 | 26 | 28 | 28 | 28 | 13 | 13 | 13 |
| 25 | 16 | 25 | **761 066 917** | 0.025 | 32 | 26 | 32 | 32 | 32 | 14 | 17 | 14 |
| 25 | 20 | 25 | **761 066 918** | 0.025 | 32 | 26 | 32 | 32 | 32 | 14 | 17 | 14 |
| 25 | 20 | 20 | **761 066 919** | 0.026 | 32 | 26 | 32 | 32 | 32 | 14 | 17 | 17 |
| 25 | 25 | 20 | **761 066 920** | 0.027 | 32 | 32 | 32 | 32 | 32 | 14 | 14 | 17 |
| 32 | 16 | 32 | **761 066 921** | 0.041 | 40 | 26 | 38 | 38 | 38 | 18 | 23 | 18 |
| 32 | 20 | 32 | **761 066 922** | 0.284 | 40 | 26 | 38 | 38 | 38 | 18 | 23 | 18 |
| 32 | 25 | 32 | **761 066 923** | 0.036 | 40 | 32 | 38 | 38 | 38 | 18 | 20 | 18 |
| 40 | 16 | 40 | **761 066 295** | 0.083 | 51 | 34 | 44 | 44 | 44 | 22 | 29 | 22 |
| 40 | 25 | 40 | **761 066 924** | 0.077 | 51 | 34 | 44 | 44 | 44 | 22 | 26 | 22 |
| 40 | 32 | 40 | **761 068 049** | 0.076 | 51 | 40 | 44 | 44 | 44 | 22 | 24 | 22 |
| 50 | 16 | 50 | **761 066 309** | 0.135 | 64 | 34 | 51 | 51 | 51 | 26 | 36 | 26 |
| 50 | 25 | 50 | **761 066 925** | 0.131 | 64 | 34 | 51 | 51 | 51 | 26 | 33 | 26 |
| 50 | 32 | 50 | **761 068 050** | 0.133 | 64 | 40 | 51 | 51 | 51 | 26 | 31 | 26 |
| 63 | 16 | 63 | **761 066 310** | 0.257 | 81 | 35 | 62 | 62 | 62 | 34 | 47 | 34 |
| 63 | 25 | 63 | **761 066 926** | 0.252 | 81 | 35 | 62 | 62 | 62 | 34 | 44 | 34 |
| 63 | 32 | 63 | **761 068 051** | 0.255 | 81 | 40 | 62 | 62 | 62 | 34 | 42 | 34 |

## INSTAFLEX Cross PB
## PN16



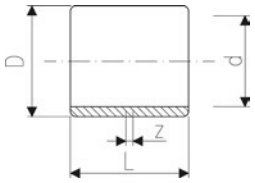



| d (mm) | PN (bar) | d | Code | Weight (kg) | l (mm) | l1 (mm) | l2 (mm) |
|---|---|---|---|---|---|---|---|
| 51 | 16 | 40 | **761 068 066** | 0.098 | 88 | 44 | 26 |
| 64 | 16 | 50 | **761 068 067** | 0.169 | 102 | 51 | 32 |
| 81 | 16 | 63 | **761 068 068** | 0.321 | 124 | 62 | 41 |

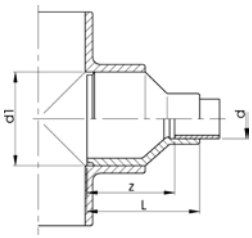
## INSTAFLEX Socket PB






| d (mm) | Code | Weight (kg) | D (mm) | L (mm) | z (mm) |
|---|---|---|---|---|---|
| 16 | **761 066 660** | 0.045 | 22 | 33 | 3 |
| 20 | **761 066 661** | 0.014 | 26 | 33 | 3 |
| 25 | **761 066 662** | 0.020 | 32 | 39 | 3 |
| 32 | **761 066 663** | 0.033 | 40 | 43 | 3 |
| 40 | **761 066 664** | 0.048 | 51 | 48 | 4 |
| 50 | **761 066 665** | 0.068 | 64 | 54 | 4 |
| 63 | **761 066 666** | 0.120 | 81 | 60 | 4 |
| 75 | **761 066 667** | 0.153 | 91 | 69 | 7 |
| 90 | **761 066 668** | 0.236 | 110 | 80 | 8 |
| 110 | **761 066 669** | 0.417 | 133 | 94 | 10 |

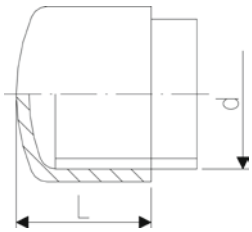





## INSTAFLEX Reducing bush PB

| d1 (mm) | d (mm) | Code | Weight (kg) | L (mm) | z (mm) |
|---|---|---|---|---|---|
| 20 | 16 | **761 066 670** | 0.005 | 30 | 15 |
| 25 | 16 | **761 066 671** | 0.010 | 33 | 18 |
| 25 | 20 | **761 066 672** | 0.015 | 33 | 18 |
| 32 | 20 | **761 066 674** | 0.018 | 40 | 25 |
| 32 | 25 | **761 066 675** | 0.022 | 40 | 22 |
| 40 | 20 | **761 066 677** | 0.024 | 42 | 27 |
| 40 | 25 | **761 066 678** | 0.028 | 42 | 24 |
| 40 | 32 | **761 066 679** | 0.034 | 42 | 22 |
| 50 | 20 | **761 066 681** | 0.035 | 55 | 40 |
| 50 | 25 | **761 066 682** | 0.035 | 55 | 37 |
| 50 | 32 | **761 066 683** | 0.042 | 55 | 35 |
| 50 | 40 | **761 066 684** | 0.050 | 55 | 33 |
| 63 | 20 | **761 066 686** | 0.055 | 58 | 43 |
| 63 | 25 | **761 066 687** | 0.060 | 58 | 40 |
| 63 | 32 | **761 066 688** | 0.066 | 58 | 38 |
| 63 | 40 | **761 066 689** | 0.074 | 58 | 36 |
| 63 | 50 | **761 066 690** | 0.079 | 58 | 33 |
| 75 | 63 | **761 066 742** | 0.115 | 67 | 39 |
| 90 | 63 | **761 066 746** | 0.150 | 74 | 46 |
| 90 | 75 | **761 066 745** | 0.160 | 74 | 43 |
| 110 | 63 | **761 066 747** | 0.229 | 86 | 58 |
| 110 | 75 | **761 066 749** | 0.234 | 86 | 55 |
| 110 | 90 | **761 066 748** | 0.270 | 86 | 50 |



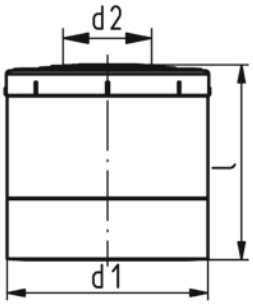




## INSTAFLEX Cap PB

| d (mm) | Code | Weight (kg) | L (mm) |
|---|---|---|---|
| 16 | **761 066 650** | 0.006 | 22 |
| 20 | **761 066 651** | 0.010 | 24 |
| 25 | **761 066 652** | 0.014 | 28 |
| 32 | **761 066 653** | 0.022 | 32 |
| 40 | **761 066 654** | 0.024 | 38 |
| 50 | **761 066 655** | 0.050 | 44 |
| 63 | **761 066 656** | 0.079 | 50 |

# Special Reducers



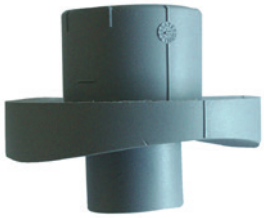


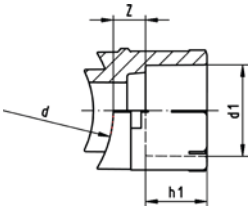

### INSTAFLEX Special reducer PB

Not predrilled
Not suitable as end cap

| d1 (mm) | d2 (mm) | Code | Weight (kg) | l (mm) |
|---|---|---|---|---|
| 75 | 16 - 50 | **761 069 454** | 0.187 | 88 |
| 90 | 16 - 50 | **761 069 455** | 0.240 | 87 |
| 110 | 16 - 50 | **761 069 456** | 0.382 | 94 |

# Weld-in Saddles



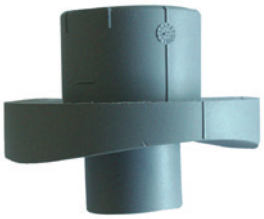


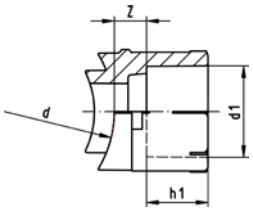

### INSTAFLEX Weld-in saddle PB

* on request

| | d - d1 (mm) | Code | Weight (kg) | h1 (mm) | z (mm) |
|---|---|---|---|---|---|
| * | 40 - 20 | **761 068 000** | 0.011 | 15 | 11 |
| | 50 - 20 | **761 068 003** | 0.011 | 15 | 11 |
| | 50 - 25 | **761 068 004** | 0.014 | 18 | 11 |
| | 50 - 32 | **761 068 005** | 0.019 | 20 | 11 |
| | 63 - 20 | **761 068 006** | 0.012 | 15 | 11 |
| | 63 - 25 | **761 068 007** | 0.016 | 18 | 11 |
| | 63 - 32 | **761 068 008** | 0.022 | 20 | 11 |
| | 75 - 20 | **761 068 009** | 0.014 | 15 | 12 |
| | 75 - 25 | **761 068 010** | 0.017 | 18 | 12 |
| | 75 - 32 | **761 068 011** | 0.022 | 20 | 12 |
| | 90 - 20 | **761 068 012** | 0.018 | 15 | 13 |
| | 90 - 25 | **761 068 013** | 0.021 | 18 | 13 |
| | 90 - 32 | **761 068 014** | 0.027 | 20 | 13 |
| | 110 - 20 | **761 068 015** | 0.019 | 15 | 14 |
| | 110 - 25 | **761 068 016** | 0.022 | 18 | 14 |
| | 110 - 32 | **761 068 017** | 0.020 | 20 | 14 |

## INSTAFLEX Weld-in saddle PB

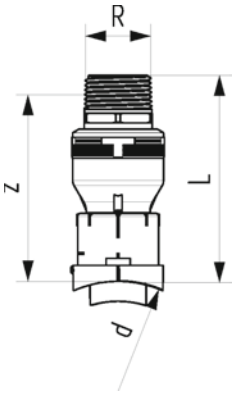





| d - d1 (mm) | Code | Weight (kg) | h1 (mm) | z (mm) |
|---|---|---|---|---|
| 125 - 32 | **761 068 018** | 0.035 | 20 | 16 |
| 125 - 40 | **761 068 019** | 0.056 | 22 | 16 |
| 125 - 50 | **761 068 020** | 0.072 | 25 | 16 |
| 160 - 32 | **761 068 021** | 0.045 | 20 | 16 |
| 160 - 40 | **761 068 022** | 0.061 | 22 | 16 |
| 160 - 50 | **761 068 023** | 0.077 | 25 | 16 |
| 225 - 32 | **761 068 024** | 0.076 | 20 | 16 |
| 225 - 40 | **761 068 025** | 0.076 | 22 | 16 |
| 225 - 50 | **761 068 026** | 0.092 | 25 | 16 |

## INSTAFLEX Weld-in saddle transition PB/Brass
## With male thread

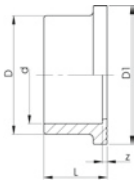





Weld-in saddle transition to male thread
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
EPDM sealing hot and cold water approved

| d (mm) | R (inch) | Code | Weight (kg) | L (mm) | z (mm) |
|---|---|---|---|---|---|
| 50 | ¾ | **761 069 758** | 0.143 | 100 | 75 |
| 63 | 1 | **761 069 759** | 0.228 | 100 | 83 |
| 75 | 1 | **761 069 760** | 0.228 | 100 | 83 |
| 90 | 1 | **761 069 761** | 0.233 | 103 | 86 |
| 110 | 1 | **761 069 762** | 0.226 | 105 | 88 |
| 125 | 1 | **761 069 763** | 0.241 | 108 | 91 |
| 160 | 1 | **761 069 764** | 0.251 | 108 | 91 |
| 225 | 1 | **761 069 765** | 0.282 | 108 | 91 |

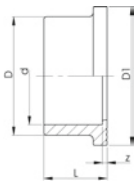





### INSTAFLEX Transition PB
### To Ball Valve 546

| d (mm) | Code | Weight (kg) | D (mm) | D1 (mm) | L (mm) | z (mm) |
|---|---|---|---|---|---|---|
| 20 | **761 066 940** | 0.005 | 27 | 33 | 20 | 3 |
| 25 | **761 066 941** | 12.000 | 33 | 44 | 22 | 3 |
| 32 | **761 066 942** | 0.016 | 41 | 53 | 24 | 3 |
| 40 | **761 066 943** | 0.026 | 51 | 65 | 26 | 3 |
| 50 | **761 066 944** | 0.041 | 62 | 77 | 29 | 3 |
| 63 | **761 066 945** | 0.075 | 77 | 99 | 34 | 3 |



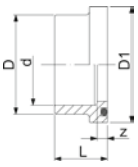



### INSTAFLEX Flange adaptor flat PB

Suitable for flange or union nut

| d (mm) | Code | Weight (kg) | D (mm) | D1 (mm) | L (mm) | z (mm) |
|---|---|---|---|---|---|---|
| 16 | **761 066 630** | 0.005 | | | | |
| 20 | **761 066 631** | 0.007 | 27 | 34 | 20 | 5 |
| 25 | **761 066 632** | 0.010 | 33 | 41 | 23 | 5 |
| 32 | **761 066 633** | 0.017 | 41 | 50 | 25 | 5 |
| 40 | **761 066 634** | 0.026 | 50 | 61 | 27 | 5 |
| 50 | **761 066 635** | 0.039 | 61 | 73 | 30 | 5 |
| 63 | **761 066 636** | 0.063 | 76 | 90 | 33 | 5 |
| 75 | **761 066 637** | 0.093 | 90 | 106 | 35 | 4 |
| 90 | **761 066 638** | 0.140 | 109 | 125 | 42 | 6 |
| 110 | **761 066 639** | 0.230 | 131 | 150 | 49 | 7 |






### INSTAFLEX Flange adaptor PB

Suitable for flange or union nut
Including EPDM O-Ring, quality suitable for potable water

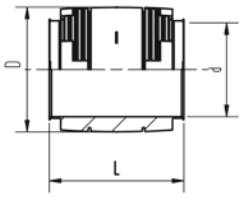
| d (mm) | Code | Weight (kg) | D (mm) | D1 (mm) | L (mm) | z (mm) |
|---|---|---|---|---|---|---|
| 16 | **761 066 640** | 0.006 | 22 | 29 | 23 | 8 |
| 20 | **761 066 641** | 0.008 | 27 | 34 | 23 | 8 |
| 25 | **761 066 642** | 0.012 | 33 | 41 | 26 | 8 |
| 32 | **761 066 643** | 0.021 | 41 | 50 | 28 | 8 |
| 40 | **761 066 644** | 0.034 | 50 | 61 | 32 | 10 |
| 50 | **761 066 645** | 0.049 | 61 | 73 | 35 | 10 |
| 63 | **761 066 646** | 0.077 | 76 | 90 | 38 | 10 |
| 75 | **761 066 647** | 0.111 | 90 | 106 | 40 | 9 |
| 90 | **761 066 648** | 0.179 | 109 | 125 | 47 | 11 |
| 110 | **761 066 649** | 0.292 | 131 | 150 | 55 | 13 |

# Butt fusion
## Fittings



### INSTAFLEX Electro fusion coupler PB

| d (mm) | Code | Weight (kg) | L (mm) |
|---|---|---|---|
| 125 | **761 069 555** | 1.565 | 186 |
| 160 | **761 069 556** | 1.397 | 190 |
| 225 | **761 069 557** | 4.472 | 220 |

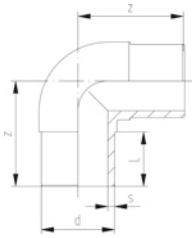





### INSTAFLEX Butt fusion Elbow 90° PB

- Material: PB

| d (mm) | Code | Weight (kg) | L (mm) | z (mm) |
|---|---|---|---|---|
| 125 | **761 065 258** | 1.615 | 93 | 182 |
| 160 | **761 065 259** | 3.077 | 104 | 213 |
| 225 | **761 065 260** | 7.795 | 122 | 270 |
| 315 | **761 065 321** | 20.990 | 152 | 522 |

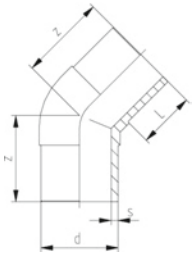





### INSTAFLEX Butt Fusion Elbow 45° PB

- Material: PB

| d (mm) | Code | Weight (kg) | L (mm) | z (mm) |
|---|---|---|---|---|
| 125 | **761 065 261** | 1.246 | 92 | 140 |
| 160 | **761 065 262** | 2.379 | 102 | 162 |
| 225 | **761 065 263** | 6.065 | 122 | 200 |
| 315 | **761 065 325** | 14.000 | 420 | 245 |





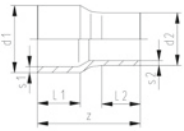


### INSTAFLEX Tee 90° - equal PB

- Material: PB

| d (mm) | Code | Weight (kg) | L (mm) | z (mm) |
|---|---|---|---|---|
| 125 | **761 065 255** | 2.397 | 93 | 183 |
| 160 | **761 065 256** | 4.312 | 102 | 210 |
| 225 | **761 065 257** | 11.984 | 122 | 270 |
| 315 | **761 065 320** | 20.105 | 569 | 280 |





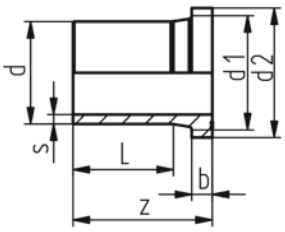
### INSTAFLEX Reducer PB

- Material: PB

| d1 (mm) | d2 (mm) | Code | Weight (kg) | L1 (mm) | L2 (mm) | z (mm) |
|---|---|---|---|---|---|---|
| 125 | 110 | **761 065 267** | 0.729 | 92 | 85 | 215 |
| 160 | 125 | **761 065 268** | 1.263 | 102 | 92 | 245 |
| 225 | 160 | **761 065 269** | 2.800 | 122 | 102 | 280 |
| 315 | 225 | **761 065 322** | 7.933 | 154 | 125 | 377 |

## Flange connections

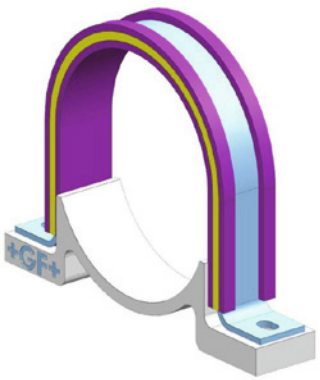





### INSTAFLEX Flange adaptor flat PB

- Material: PB

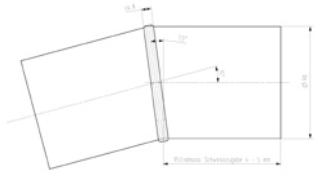
| d (mm) | Code | Weight (kg) | d1 (mm) | d2 (mm) | L (mm) | b (mm) | z (mm) |
|---|---|---|---|---|---|---|---|
| 125 | **761 065 264** | 0.870 | 132 | 162 | 123 | 25 | 170 |
| 160 | **761 065 265** | 1.700 | 176 | 218 | 147 | 25 | 200 |
| 225 | **761 065 266** | 3.003 | 236 | 274 | 122 | 32 | 200 |
| 315 | **761 065 323** | 5.227 | 336 | 371 | 170 | 36 | 291 |




### Pipe Brackets ROM

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 125 | **761 070 337** | 0.228 |
| 160 | **761 070 338** | 0.228 |
| 225 | **761 070 343** | 1.160 |



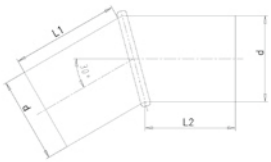


### INSTAFLEX Elbow 15° PB
### With two short ends

Prefabricated elbow with two short ends for electro fusion fittings
GF customized quality, pre-peeled, swiss made
Single packed in plastic bags
* on request

| | d (mm) | Code | Weight (kg) | L1 (mm) |
|---|---|---|---|---|
| * | 90 | **761 069 662** | 0.405 | 95 |
| * | 110 | **761 065 311** | 0.647 | 100 |
| * | 125 | **761 065 304** | 0.905 | 110 |
| * | 160 | **761 065 305** | 1.590 | 115 |
| * | 225 | **761 065 307** | 6.348 | 130 |





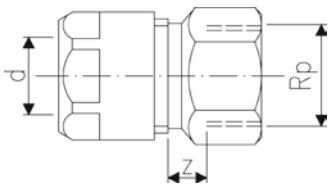

### INSTAFLEX Elbow 30° PB
### With short end

Prefabricated elbow with two short ends for electro fusion fittings
GF customized quality, pre-peeled, swiss made
Single packed in plastic bags
* on request

| | d (mm) | Code | Weight (kg) | L1 (mm) |
|---|---|---|---|---|
| * | 90 | **761 069 663** | 0.700 | 95 |
| * | 110 | **761 065 312** | 0.641 | 100 |
| * | 125 | **761 065 308** | 0.971 | 110 |
| * | 160 | **761 065 309** | 1.723 | 115 |
| * | 225 | **761 065 310** | 3.988 | 130 |

# Compression Jointing
## Compression joint fittings






### INSTAFLEX Transition Brass
### With female thread

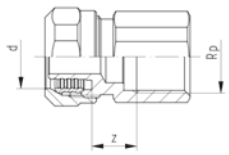
Brass: UBA conform

| d (mm) | Rp (inch) | Code | Weight (kg) | z (mm) |
|---|---|---|---|---|
| 16 | ½ | **760 857 019** | 0.078 | 12 |
| 16 | ¾ | **760 857 020** | 0.144 | 15 |
| 20 | ½ | **760 857 021** | 0.204 | 14 |
| 20 | ¾ | **760 857 022** | 0.174 | 15 |



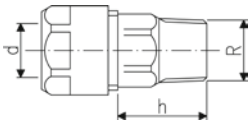
## INSTAFLEX Transition Brass
## With female thread

Brass: UBA conform
* on request




| | d (mm) | Rp (inch) | Code | Weight (kg) | z (mm) | Remarks |
|---|---|---|---|---|---|---|
| | 25 | ¾ | **760 857 023** | 0.124 | 7 | |
| | 25 | 1 | **760 857 024** | 0.202 | 13 | |
| | 32 | 1 | **760 857 025** | 0.261 | 7 | |
| | 40 | 1 ¼ | **760 857 026** | 0.364 | 7 | |
| | 50 | 1 ½ | **760 857 027** | 0.506 | 7 | |
| | 63 | 2 | **760 857 028** | 1.896 | 9 | |
| | 75 | 2 ½ | **760 857 029** | 1.907 | 10 | without approval |
| * | 90 | 3 | **760 857 030** | 0.800 | 9 | without approval |






## INSTAFLEX Transition Brass
## With male thread

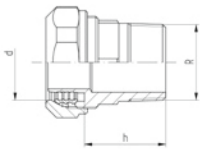
Brass: UBA conform

| d (mm) | R (inch) | Code | Weight (kg) | h (mm) |
|---|---|---|---|---|
| 16 | ½ | **760 857 032** | 0.111 | 30 |
| 16 | ¾ | **760 857 033** | 0.156 | 34 |
| 20 | ½ | **760 857 034** | 0.148 | 38 |
| 20 | ¾ | **760 857 035** | 0.230 | 36 |



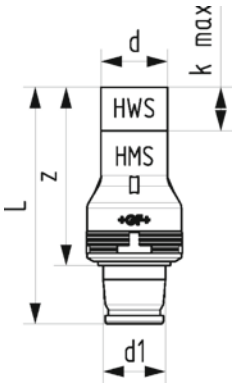
## INSTAFLEX Transition Brass
## With male thread

Brass: UBA conform
* on request




| | d (mm) | R (inch) | Code | Weight (kg) | h (mm) | Remarks |
|---|---|---|---|---|---|---|
| | 25 | ¾ | **760 857 036** | 0.144 | 35 | |
| | 25 | 1 | **760 857 037** | 0.177 | 41 | |
| | 32 | 1 | **760 857 038** | 0.293 | 42 | |
| | 40 | 1 ¼ | **760 857 039** | 0.409 | 44 | |
| | 50 | 1 ½ | **760 857 040** | 0.576 | 47 | |
| | 63 | 2 | **760 857 041** | 1.736 | 32 | |
| | 75 | 2 ½ | **760 857 042** | 2.093 | 37 | without approval |
| * | 90 | 3 | **760 857 043** | 2.806 | 32 | without approval |
| * | 110 | 4 | **760 857 044** | 3.429 | 38 | without approval |






### iFIT Transition module PB
### With INSTAFLEX spigot

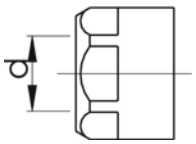
Socket fusion transition to iFIT
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
EPDM sealing hot and cold water approved

- Material: brass dezincification resistant, PB

| d (mm) | d1 (mm) | PN (bar) | SDR | Code | Weight (kg) | L (mm) | z (mm) | k max. (mm) |
|---|---|---|---|---|---|---|---|---|
| 16 | 16 - 20 | 16 | 11 | **762 101 253** | 0.075 | 93 | 73 | 22 |
| 20 | 16 - 20 | 16 | 11 | **762 101 254** | 0.088 | 96 | 76 | 23 |
| 25 | 16 - 20 | 16 | 11 | **762 101 255** | 0.110 | 103 | 83 | 23 |
| 25 | 25 - 32 | 16 | 11 | **762 101 256** | 0.164 | 108 | 83 | 23 |
| 32 | 25 - 32 | 16 | 11 | **762 101 257** | 0.213 | 144 | 86 | 21 |

## Accessories for compression joint fittings

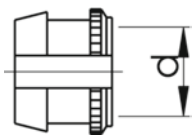





### INSTAFLEX Union nut Brass

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 16 | **760 853 018** | 0.034 |
| 20 | **760 853 071** | 0.047 |

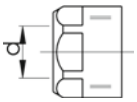





### INSTAFLEX Clamping ring Brass

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 16 | **760 853 019** | 0.011 |
| 20 | **760 853 072** | 0.016 |



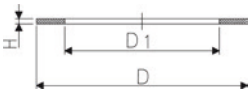



### INSTAFLEX Cap Brass

Including seal

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 16 | **760 857 072** | 0.051 |
| 20 | **760 857 073** | 0.094 |






### INSTAFLEX Seal For caps

Material: Tesnit UNI blue, free of asbestos according to DIN 3754

| d-d (mm) | Code | Weight (kg) | D (mm) | D1 (mm) | H (mm) |
|---|---|---|---|---|---|
| 16 - 20 | **760 853 021** | 0.002 | 15 | 6 | 3 |

# Machines and Tools

## Electro Fusion



### INSTAFLEX Electro fusion control unit HWSG-3 230V

Technical data: Voltage 230V, Power max 1400W, Frequency 50/60Hz, Protection class IP 54, Main connection (3m) with EU-Standard plug
* only for CH / swiss plug

| | d-d (mm) | Code | Weight (kg) | Dimensions (mm) | Size (inch) |
|---|---|---|---|---|---|
| | 16 - 110 | **761 069 021** | 4.142 | 294 | 324 |
| * | 16 - 110 | **761 069 020** | 4.047 | 294 | 324 |



### INSTAFLEX Primary cable PUR 230V

* on request

| | Code | Weight (kg) | Length (m) |
|---|---|---|---|
| * | **761 069 013** | 0.380 | 3 |



### INSTAFLEX Welding cable PVC 230V / Angled plug

Matches to HWSG-3 - 230V

| d (mm) | Code | Weight (kg) | Length (m) |
|---|---|---|---|
| 16 - 110 | **761 069 006** | 0.246 | 3 |



### INSTAFLEX Welding cable PVC 230V / Straight plug

Matches to HWSG-3 - 230V

| d (mm) | Code | Weight (kg) | Length (m) |
|---|---|---|---|
| 16 - 110 | **761 069 001** | 0.255 | 3 |



### INSTAFLEX Welding cable triple PVC 230V / 2 straight plugs / 1 angled plug

Matches to HWSG-3 - 230V
2 pcs. with cable straight
1 pc. with cable angle
* on request

| | Code | Weight (kg) | Length (m) |
|---|---|---|---|
| * | **761 069 008** | 1.753 | 8 |




### MSA 2 MULTI Automatic Electrofusion Unit for PE/PP/PVDF/PB

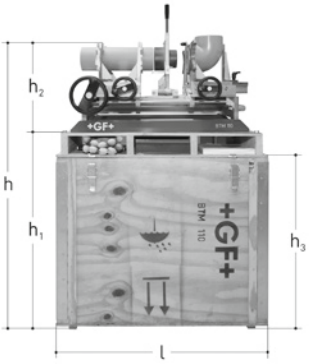
The MSA 2 MULTI automatic electro fusion unit combines light weight and high efficiency, thanks to its inverter technology. The unit is suitable for welding PE, PP, INSTAFLEX PB d125-225, Fuseal d1 1/2"-12" and PPro-Seal 1/2"-3".
It is robust, safe and ergonomic.
All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive.
The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.
The unit can keep up to 500 protocols permanently stored in the internal memory. The user can export the fusion reports to an USB stick to print them out in PDF format.
Scope of delivery includes: 1 pair of angle adapter clips 4.0 mm, operating instructions, START/STOP badge, USB memory stick and robust transport case

**Technical Data:**

- Operating temperature: -20°C to +50°C
- Mains voltage and frequency: 230V (190V - 265V), 50-60Hz
- Fusion data input mode: bar code, manual
- Fittings range: d16-630 mm , 1/2"-12"
- Fusion voltage: 3.6-40 V
- Fusion current: 90 A (max)
- Suggested power generators: 3.5 kVA
- USB Port: Type A
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m / Fusion cable: 3 m
- Weight: ca. 11.9 kg
- Display: Graphical LCD, adjustable contrast

| Description | Code | Weight (kg) |
|---|---|---|
| Full package plus mini Welding Book, SeaDrain adapters and barcodes | **790 156 022** | 11.900 |






### INSTAFLEX Socket fusion machine BTM 110

Packed in a wooden case, usable as working table, prism clamp device for pipes, round clamping units for fittings d16-d110, pipe support adjustable. Without heating element. Requires heating element catalogue number 761 066 895

| l (mm) | h (mm) | Code | Weight (kg) | h1 (mm) | h2 (mm) | h3 (mm) |
|---|---|---|---|---|---|---|
| 867 | 1191 | **761 066 894** | 95.000 | 787 | 404 | 728 |

---



### INSTAFLEX Accessories
### To socket fusion machine BTM 110

Toolset (included in delivery code 761 066 894) heating element with electronic temperature regulation, voltage 230V, power 800W, heating bushes d16-d110, tempil sticks 253°C and 274°C, timer, gtemplate, gloves, support, grip, pipe shears, pipe cutter d32-d110, chamfering tool

| Code | Weight (kg) |
|---|---|
| **761 066 895** | 10.000 |

---



### INSTAFLEX Heating element
### 230V

Scope of delivery: elctronic temperature regulation, Voltage 230V, Power 800W, Instruction for the socket fusion jointing
* only for CH / swiss plug

| | d-d (mm) | Code | Weight (kg) |
|---|---|---|---|
| | 16 - 63 | **761 066 804** | 1.639 |
| * | 16 - 63 | **761 066 751** | 1.646 |

---



### INSTAFLEX Heating element 30°

Special for weld-in-saddle
With Schuko-Plug CEE
* on request

| | D (mm) | Code | Weight (kg) |
|---|---|---|---|
| * | 16 - 50 | **761 066 877** | 1.550 |

---

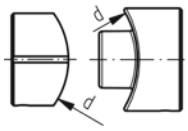


## INSTAFLEX Heating bushes

Heating bushes for the entire INSTAFLEX socket fusion range (in conjunction with the BTM 110 fusion machine)

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 16 | **761 066 756** | 0.189 |
| 20 | **761 066 757** | 0.284 |
| 25 | **761 066 758** | 0.366 |
| 32 | **761 066 759** | 0.369 |
| 40 | **761 066 760** | 0.321 |
| 50 | **761 066 761** | 0.460 |
| 63 | **761 066 762** | 0.609 |
| 75 | **761 066 881** | 1.108 |
| 90 | **761 066 882** | 1.740 |
| 110 | **761 066 883** | 2.450 |



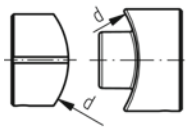


## INSTAFLEX Heating bushes
## For weld-in saddle PB

d = Pipe dim.

| d (mm) | Code | Weight (kg) | Remarks |
|---|---|---|---|
| 40 | **761 068 027** | 0.129 | Drill bitt d20-d32 |
| 50 | **761 068 028** | 0.156 | Drill bitt d20-d32 |
| 63 | **761 068 029** | 0.199 | Drill bitt d20-d32 |
| 75 | **761 068 030** | 0.216 | Drill bitt d20-d32 |
| 90 | **761 068 031** | 0.272 | Drill bitt d20-d32 |
| 110 | **761 068 032** | 0.298 | Drill bitt d20-d32 |





## INSTAFLEX Heating bushes
## For weld-in saddle PB

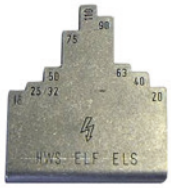
For heating element straight
d = Pipe dim.

| d (mm) | Code | Weight (kg) | Remarks |
|---|---|---|---|
| 125 | **761 068 033** | 0.376 | Drill bitt d20-d32 |
| 125 | **761 068 034** | 0.510 | Drill bitt d40-d50 |
| 160 | **761 068 035** | 0.568 | Drill bitt d20-d32 |
| 160 | **761 068 036** | 0.658 | Drill bitt d40-d50 |
| 225 | **761 068 037** | 1.013 | Drill bitt d20-d32 |
| 225 | **761 068 038** | 1.019 | Drill bitt d40-d50 |



## INSTAFLEX Drill bit
## For weld-in saddle PB

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 20 - 32 | **761 068 039** | 0.132 |
| 40 - 50 | **761 068 040** | 0.232 |



### INSTAFLEX Fuseal-template
### For electro fusion (HWS)

| Dimension (mm) | Code | Weight (kg) |
|---|---|---|
| 1 1/2"- 6" | **761 069 622** | 0.010 |

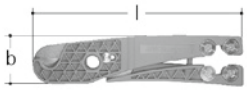


### INSTAFLEX Heating element
### Complete set / 230V

Scope of delivery: Metal case, Heating element with electronic temperature regulation Voltage 230V, Power 800W, Heating bushes d16-d63, Tempil sticks 253°C and 274°C, Timer, Template, Gloves, Support, Grip, Pipe shears, Pipe cutter d32-d63, Chamfering tool
* only for CH / swiss plug

| | d-d (mm) | Code | Weight (kg) |
|---|---|---|---|
| * | 16 - 63 | **761 066 750** | 11.735 |

## General Tools




### JRG Sanipex Multi purpose cutter plastic

- Material: steel, plastic

| d-d-d (mm) | JRG Code | GF Code | Weight (kg) | b (mm) | l (mm) |
|---|---|---|---|---|---|
| 12 - 16 - 20 | **5790.004** | **355 632 424** | 0.150 | 45 | 200 |




### Rotary Peeler RS

**Note:**
- Universal peeling for the preparation of all electrofusion joints
- For pipe ends and saddles
- Materials: PE 80, PE100, PE100-RC, PE-X, PP

* Suitable for PB

| | d (mm) | Article | Code | Weight (kg) |
|---|---|---|---|---|
| | 40 | RS 40 | **790 136 001** | 2.340 |
| | 50 | RS 50 | **790 136 002** | 2.115 |
| | 63 | RS 63 | **790 136 003** | 2.090 |
| | 75 | RS 75 | **790 136 004** | 2.350 |
| | 90 | RS 90 | **790 136 005** | 2.460 |
| | 110 | RS 110 | **790 136 006** | 2.430 |
| * | 125 | RS 125 | **790 136 007** | 3.895 |
| | 140 | RS 140 | **790 136 008** | 3.890 |
| | 160 | RS 160 | **790 136 009** | 3.790 |
| | 180 | RS 180 | **790 136 010** | 4.150 |
| | 200 | RS 200 | **790 136 011** | 3.995 |
| * | 225 | RS 225 | **790 136 012** | 3.935 |
| | 250 | RS 250 | **790 136 013** | 5.575 |
| | 280 | RS 280 | **790 136 014** | 5.440 |
| * | 315 | RS 315 | **790 136 015** | 5.380 |



## INSTAFLEX Template
## For socket fusion (HMS)

To mark the coupler

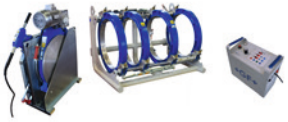
| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 16 - 63 | **761 066 800** | 0.014 |

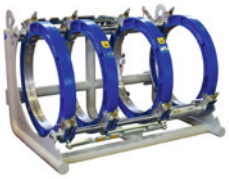


## IM 315
## Butt fusion machine for industrial applications

- Butt fusion machine for PP, PE, PB and PVDF pipes and fittings for industrial applications with pressure piping systems.
- Extremely sturdy design for use in the workshop and on job sites.
- Designed to provide the highest flexibility to adapt to different sizes or shapes of fittings.
- Angular jointing provided up to 30° (2x15°) for prefabrication of segmented fittings.
- Dimensional range for straight jointing: d90-315 mm, from SDR 41 up to SDR 11 with PE,PP d315 mm. Limitations in the dimensional range are to be considered for angular jointing, depending on the angle (refer to user's manual).
- **BASE MACHINE**
- High precision, distortion-free and robust machine base
- Integrated swivel tables for angular jointing up to 30° (2x15°)
- Handwheel for easy moving of machine carriage
- Exact pressure adjustment via direct spring load transfer
- Fusion pressure is maintained with a user friendly fast-locking handle
- Inner left and right clamping elements, for picking up reduction clamping inserts d 90-315 mm, with fast-locking handle
- Optional outer, horizontally removable clamping devices available
- Weight (including planer and heater): 169 kg
- **PLANER**
- Optimized cutting geometry for even and chatter-free planing
- Swivel mounted for ergonomic handling
- Mechanical stop to provide single sided planing and defined facing depth
- Integrated safety switch to prevent unintentional start-up
- Self-locking mechanism in working position
- **HEATER**
- High-performance and precision heater with electronic temperature control (2500W)
- High accuracy of +/- 4°C over the entire heating surface
- High quality, non-stick PTFE coating
- Pull-off mechanism to automatically detach the heating plate from pipe ends
- Metal sheet cover to protect the heating plate in idle position
- Integrated thermometer for fast visual check of plate temperature
- **ADDITIONAL STANDARD EQUIPMENT**
- Reduction clamping inserts set d 90-315 mm
- Pipe supports for picking up reduction supporting inserts d 90-315 mm
- Reduction pipe supporting inserts set d 90-315 mm
- Timer to clock fusion times
- Machine specific tool set

| d-d (mm) | Performance | Description | Code | Weight (kg) |
|---|---|---|---|---|
| 90 - 315 | 230 V / 3500 W | Without transport crate | **790 143 005** | 229.000 |
| 90 - 315 | 230 V / 3500 W | With standard transport crate | **790 143 001** | 269.000 |
| 90 - 315 | 230 V / 3500 W | With special transport crate | **790 143 003** | 366.000 |
| 90 - 315 | 230 V / 3500 W | Without transport crate, Swiss plug | **790 143 033** | 229.000 |
| 90 - 315 | 230 V / 3500 W | With standard transport crate, Swiss plug | **790 143 034** | 269.000 |
| 90 - 315 | 230 V / 3500 W | With special transport crate, Swiss plug | **790 143 035** | 366.000 |














## TOP 2.0 400 - 500 - 630
### Butt fusion machine for construction site

Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.
Hydraulically operated with manual control unit.
TOP hydraulic unit with integrated control panel and power outlets.
Including transport packaging (wooden crate); reduction clamping inserts and other accessories to be ordered separately.

- **BASE MACHINE**
- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 45° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Double-sided heating element pull-off mechanism to optimise the change-over phase
- Weight: Type 400 = 80 kg, Type 500 = 157 kg, Type 630 = 222 kg
- **HYDRAULIC UNIT**
- Compact aluminium case with innovative design
- Clear control panel consisting of digital system pressure display, electronic heating element temperature control, timer with 2 stop times
- Automatic pressure control during the cooling time
- Built-in data logger and realtime communication with mobile smartphones (at least iOS 11 or Android 7) during the welding process and fusion data download, working in combination with TOP WeldinAir mobile application
- Precise pressure setting and fine adjusting
- Carriage movements are carried out by means of pushbuttons
- Integrated power outlets for planer, heating element
- Accumulator for pressure equalization during the cooling phase
- Max operating pressure: Type 400 = 160 bar, Type 500 - 630 = 200 bar
- Weight:  34 kg
- **PLANER**
- Powerful parallel planer for single or double-sided facing of pipe ends
- Ergonomic, weight-balanced handling
- Self-locking mechanism in working position
- Safety microswitch to prevent undesired start-up
- Weight: Type 400 = 47 kg, Type 500 = 58 kg, Type 630 = 102 kg
- For Type 500 a special version is available, with enhanced performance to work with PP pipes and fittings up to d 500 mm SDR 11
- **HEATING ELEMENT**
- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Weight: Type 400 = 16 kg, Type 500 = 26 kg, Type 630 = 51 kg
- Input power: Type 400 = 3.5 kW, Type 500= 4.0 kW, Type 630 = 8.0 kW
- **CASE**
- For safe storage of planer and heating element
- Weight: Type 400 = 30 kg, Type 500 = 38 kg, Type 630 = 62 kg

| Type | d-d (mm) | Performance | Code | Weight (kg) |
|---|---|---|---|---|
| TOP 2.0 400 | 125 - 400 | 400 V/5700 W | **790 153 011** | 310.000 |
| TOP 2.0 500 | 200 - 500 | 400 V/6300 W | **790 154 011** | 448.000 |
| TOP 2.0 630 | 315 - 630 | 400 V/11000 W | **790 155 011** | 588.000 |



### Type 400 Reduction clamping inserts

- d125-355
- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.
- Reductions in inch sizes or special diameters upon request

In order to mount the inserts d 125/d 140/d 160/d 180/d 200/d 225/d 250/d 280, the reduction clamping insert d 315 mm, code 790 127 101, must also be used

| d (mm) | narrow Code | Weight (kg) | wide Code | Weight (kg) |
|---|---|---|---|---|
| 125 | **790 112 100** | 1.215 | **790 112 090** | 0.957 |
| 140 | **790 112 101** | 1.139 | **790 112 091** | 0.950 |
| 160 | **790 112 102** | 1.080 | **790 112 092** | 0.980 |
| 180 | **790 112 103** | 1.006 | **790 112 093** | 0.931 |
| 200 | **790 112 104** | 0.945 | **790 112 094** | 0.880 |
| 225 | **790 112 105** | 0.833 | **790 112 095** | 0.940 |
| 250 | **790 112 106** | 0.712 | **790 112 096** | 0.754 |
| 280 | **790 112 107** | 0.562 | **790 112 097** | 0.750 |
| 315 | **790 127 111** | 1.200 | **790 127 101** | 1.830 |
| 355 | **790 127 112** | 0.900 | **790 127 102** | 1.830 |



### Set of replacement blades for planer

- Blade has 2 cutting edges (1 set = 2 blades)

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 400 | **790 112 110** | 0.129 |
| 500 | **790 340 045** | 0.157 |
| 630 | **790 117 041** | 0.229 |




### JRG Sanipex MT Multi purpose cutter steel d12 - d26

- Material: steel, plastic

| d (mm) | JRG Code | GF Code | Weight (kg) | b (mm) | l (mm) |
|---|---|---|---|---|---|
| 12-26 | **4837.025** | **355 632 420** | 0.310 | 196 | 73 |
| Spare blades | **4837.005** | **355 632 421** | 0.012 | | |

## Tools for Compression Joints



### INSTAFLEX Rached spanner

For tightening and loosening of compression fittings d16 and d20
*as long as stock last

| d (mm) | SW (mm) | Code | Weight (kg) |
|---|---|---|---|
| 16 | 24 | **760 854 916** | 0.280 |



### INSTAFLEX Ball-head socket wrench
### With crossbar handle

| d-d (mm) | Code | Weight (kg) | SW (mm) |
|---|---|---|---|
| 16 - 63 | **761 066 843** | 0.038 | 3 |
| 75 - 110 | **761 066 844** | 0.038 | 4 |



### INSTAFLEX Spanner

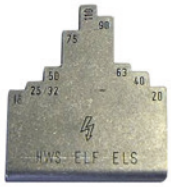
Tool to change the heating bushes

| SW (mm) | Code | Weight (kg) |
|---|---|---|
| 6 | **760 854 906** | 0.038 |



### INSTAFLEX Ball-head socket wrench
### With crossbar handle

| d-d (mm) | Code | Weight (kg) | SW (mm) |
|---|---|---|---|
| 16 - 63 | **761 066 845** | 0.004 | 3 |
| 75 - 110 | **761 066 846** | 0.007 | 4 |




### INSTAFLEX Template
### For electro fusion (HWS)

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 16 - 110 | **761 069 602** | 0.065 |



### Tempil sticks

| Temperature (°C) | Code | Weight (kg) | Color |
|---|---|---|---|
| 253 | **761 066 796** | 0.012 | yellow |
| 274 | **761 066 797** | 0.014 | red |




### Marker

For plastic pipes and fittings

| Type | Code | Weight (kg) |
|---|---|---|
| Black | **761 070 325** | 0.010 |



### INSTAFLEX Gloves

| Code | Weight (kg) |
|---|---|
| **761 066 799** | 0.115 |



### Timer with 2 stop times

| Code | Weight (kg) |
|---|---|
| **790 114 028** | 0.088 |

# iFIT



## Your benefits

+ **Low stock costs thanks to modular concept**
+ **Fast, easy and safe push-fit technology**
+ **No power supply required**
+ **Low tool investments**
+ **Detachable connection**
+ **Type III Environmental Product Declaration (EPD)**

## Technical data

**Materials**
PB, PE-RT/AL/PE-RT, PPSU, DZR brass

**Dimensions range**
d16 mm – d32 mm

**Jointing technology**
Push fit

**Operating pressure**
Up to 10 bar

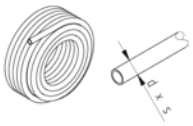
**Operating temperature**
0 °C to 70°C continuous operation, (short-term up to 95°C)

The value above listed are to be considered for water, in case of use chemical addition it is always recommended to contact GF specialist to an individual and more detailed assessment.

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# Pipes





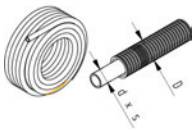

## iFIT Multilayer pipe

- Description: in coils
- Material: PE-RT/AL/PE-RT (white)

*as long as stock last

| Remarks | d (mm) | s (mm) | Code | Weight (kg) | L (m) | PN (bar) | PN at 20°C (bar) |
|---|---|---|---|---|---|---|---|
| | 16 | 2.0 | **762 101 000** | 0.119 | 100 | 10 | 16 |
| | 20 | 2.0 | **762 101 001** | 0.154 | 50 | 10 | 16 |
| | 25 | 2.5 | **762 101 130** | 0.289 | 50 | 10 | 16 |
| | 32 | 3.0 | **762 101 131** | 0.354 | 50 | 10 | 16 |






## iFIT Multilayer pipe Protected

- Description: in coils
- Material: PE-RT/Al/PE-RT (white), PE protective conduit (black)

| d (mm) | s (mm) | Code | Weight (kg) | D (mm) | L (m) | PN (bar) | PN at 20°C (bar) |
|---|---|---|---|---|---|---|---|
| 16 | 2.0 | **762 101 003** | 0.194 | 25 | 75 | 10 | 16 |
| 20 | 2.0 | **762 101 004** | 0.246 | 30 | 50 | 10 | 16 |



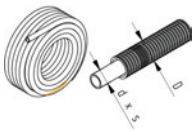



## iFIT Multilayer pipe In bars, 5.0m

- Description: in bars
- Material: PE-RT/AL/PE-RT (white)

| d (mm) | s (mm) | Code | Weight (kg) | L (m) | PN (bar) | PN at 20°C (bar) |
|---|---|---|---|---|---|---|
| 16 | 2.0 | **762 101 005** | 0.118 | 5 | 10 | 16 |
| 20 | 2.0 | **762 101 006** | 0.154 | 5 | 10 | 16 |
| 25 | 2.5 | **762 101 007** | 0.284 | 5 | 10 | 16 |
| 32 | 3.0 | **762 101 008** | 0.354 | 5 | 10 | 16 |



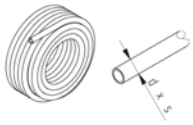



## iFIT Polybutene pipe Protected

- Description: in coils
- Material: Polybutene (grey), PE protection (black)

| d (mm) | s (mm) | Code | Weight (kg) | D (mm) | L (m) | PN (bar) | PN at 20°C (bar) |
|---|---|---|---|---|---|---|---|
| 16 | 2.0 | **762 101 012** | 0.164 | 25 | 60 | 10 | 16 |
| 20 | 2.0 | **762 101 013** | 0.207 | 30 | 60 | 10 | 16 |
| 25 | 2.5 | **762 101 011** | 0.286 | 34 | 30 | 10 | 16 |





### iFIT Polybutene pipe

- Description: in coils
- Material: Polybutene (grey)

*as long as stock last

| | d (mm) | s (mm) | Code | Weight (kg) | L (m) | PN (bar) | PN at 20°C (bar) |
|---|---|---|---|---|---|---|---|
| | 16 | 2.0 | **762 101 126** | 0.088 | 60 | 10 | 16 |
| | 20 | 2.0 | **762 101 127** | 0.115 | 60 | 10 | 16 |
| | 25 | 2.5 | **762 101 128** | 0.178 | 30 | 10 | 16 |





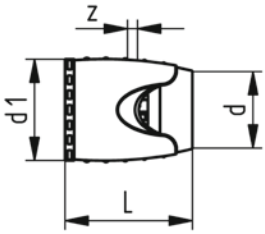

### iFIT Polybutene pipe polybutene In bars, 5.0m

- Description: in bars
- Material: Polybutene (grey)

| d (mm) | s (mm) | Code | Weight (kg) | L (m) | PN (bar) | PN at 20°C (bar) |
|---|---|---|---|---|---|---|
| 16 | 2.0 | **762 101 160** | 0.088 | 5 | 10 | 16 |
| 20 | 2.0 | **762 101 161** | 0.115 | 5 | 10 | 16 |
| 25 | 2.5 | **762 101 162** | 0.178 | 5 | 10 | 16 |
| 32 | 3.0 | **762 101 163** | 0.272 | 5 | 10 | 16 |

## Adapters





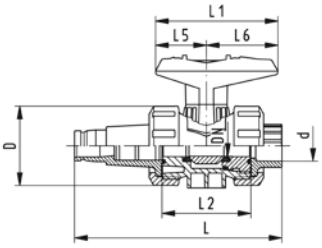

### iFIT Adaptor PPSU

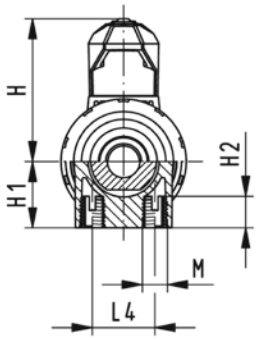
- Material: PPSU, PA

| d (mm) | d1 (mm) | Code | Weight (kg) | L (mm) | z (mm) |
|---|---|---|---|---|---|
| 16 | 30 | **762 101 030** | 0.024 | 48 | 5 |
| 20 | 34 | **762 101 031** | 0.028 | 49 | 5 |
| 25 | 45 | **762 101 034** | 0.070 | 62 | 8 |
| 32 | 52 | **762 101 035** | 0.085 | 63 | 8 |

# Valves





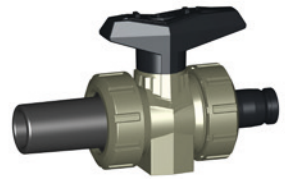

## PROGEF Standard Shipbuilding ball valve type 547
## With iFIT connection and fusion socket PB

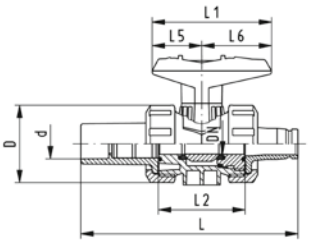
**Model:**

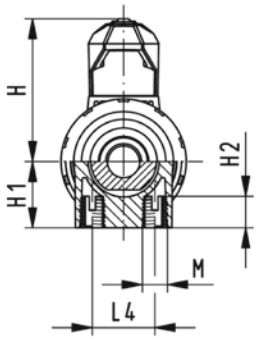
- Material: PP-H
- iFIT connection for d16/20
- iFIT connection with integrated check valve and filter
- For easy installation and removal
- Ball seat PTFE
- Integrated stainless steel mounting inserts

| d (mm) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 40 | **167 547 041** | 0.244 |
| 20 | 15 | 10 | 40 | **167 547 042** | 0.242 |

| d (mm) | D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 57 | 27 | 12 | 130 | 77 | 56 | 25 | 32 | 45 | 6 |
| 20 | 50 | 57 | 27 | 12 | 131 | 77 | 56 | 25 | 32 | 45 | 6 |





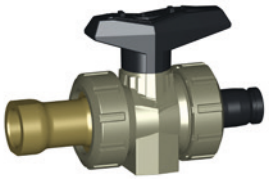

## PROGEF Standard Shipbuilding ball valve type 547
## With fusion socket PB and iFIT connection

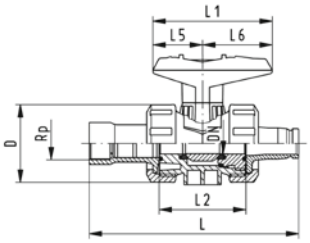
**Model:**

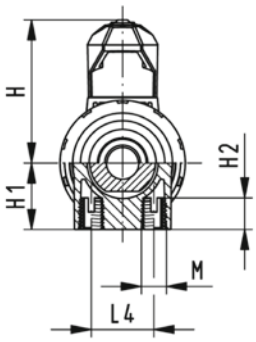
- Material: PP-H
- iFIT connection for d16/20
- For easy installation and removal
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Fusion socket PB with integrated check valve and filter

| d (mm) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 40 | **167 547 312** | 0.303 |

| d (mm) | D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 57 | 27 | 12 | 141 | 77 | 56 | 25 | 32 | 45 | 6 |






## PROGEF Standard Shipbuilding ball valve type 547
## With threaded socket Rp brass and iFIT connection

**Model:**

- Material: PP-H
- iFIT connection for d16/20
- Threaded socket Rp brass with integrated check valve and filter
- For easy installation and removal
- Ball seat PTFE
- Integrated stainless steel mounting inserts

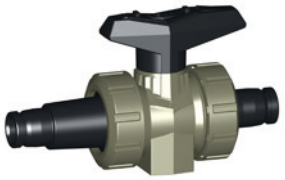
| d (mm) | DN (mm) | Thread Type | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 20 | 15 | Rp | ½ | 10 | 40 | **167 547 512** | 0.327 |

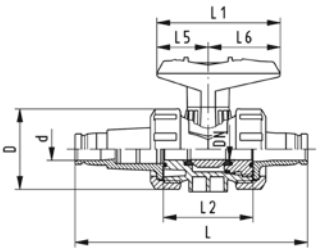
| D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 57 | 27 | 12 | 136 | 77 | 56 | 25 | 32 | 45 | 6 |

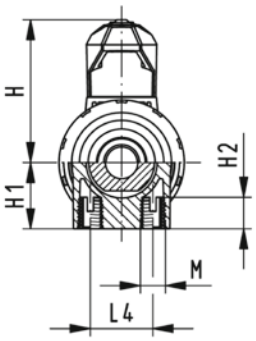


## Service housing end connector kit with iFIT connector

| d (mm) | Size (inch) | DN (mm) | Code |
|---|---|---|---|
| 20 | ½ | 15 | **167 547 902** |






### PROGEF Standard Shipbuilding ball valve type 547
### With iFIT connection long

**Model:**

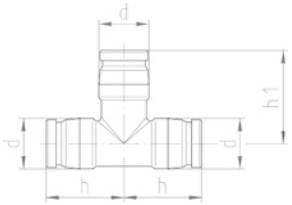
- Material: PP-H
- iFIT connection for d16/20
- iFIT connector with integrated check valve and filter
- For easy installation and removal
- Ball seat PTFE
- Integrated stainless steel mounting inserts

| d (mm) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 40 | **167 547 012** | 0.245 |

| d (mm) | D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 57 | 27 | 12 | 146 | 77 | 56 | 25 | 32 | 45 | 6 |

# Modules



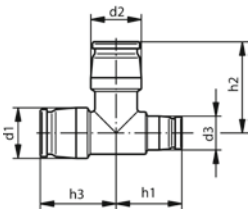



### iFIT T-piece module ppsu

- Material: PPSU

| d (mm) | Code | Weight (kg) | h (mm) | h1 (mm) | PN (bar) | PN at 20°C (bar) |
|---|---|---|---|---|---|---|
| 16 - 20 | **762 101 042** | 0.017 | 31 | 37 | 10 | 16 |
| 25 - 32 | **762 101 181** | 0.053 | 45 | 54 | 10 | 16 |



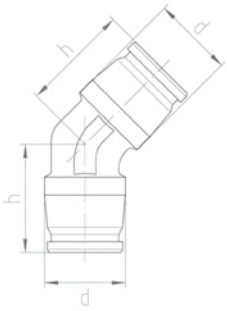



## iFIT T- piece module reduced ppsu

- Material: PPSU

| d1 (mm) | d2 (mm) | d3 (mm) | Code | Weight (kg) | h1 (mm) | h2 (mm) | h3 (mm) | PN (bar) | PN at 20°C (bar) |
|---|---|---|---|---|---|---|---|---|---|
| 25 - 32 | 25 - 32 | 16 - 20 | **762 101 183** | 0.045 | 45 | 54 | 39 | 10 | 16 |
| 25 - 32 | 16 - 20 | 25 - 32 | **762 101 185** | 0.044 | 45 | 48 | 45 | 10 | 16 |
| 25 - 32 | 16 - 20 | 16 - 20 | **762 101 187** | 0.036 | 45 | 48 | 39 | 10 | 16 |



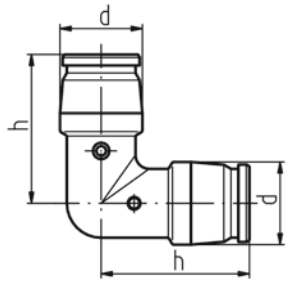



## iFIT Elbow module 45° ppsu

- Material: PPSU

| d (mm) | Code | Weight (kg) | h (mm) | PN (bar) | PN at 20°C (bar) | SDR |
|---|---|---|---|---|---|---|
| 25 - 32 | **762 101 180** | 0.033 | 40 | 10 | 16 | 11 |



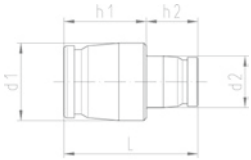



## iFIT Elbow module 90° ppsu

- Material: PPSU

| d (mm) | Code | Weight (kg) | h (mm) | PN (bar) | PN at 20°C (bar) | SDR |
|---|---|---|---|---|---|---|
| 16 - 20 | **762 101 046** | 0.013 | 36 | 10 | 16 | 11 |
| 25 - 32 | **762 101 179** | 0.042 | 54 | 10 | 16 | 11 |



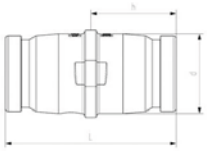



## iFIT Reducing module ppsu

- Material: PPSU

| d1 (mm) | d2 (mm) | Code | Weight (kg) | L (mm) | h1 (mm) | h2 (mm) | PN (bar) | PN at 20°C (bar) |
|---|---|---|---|---|---|---|---|---|
| 25 - 32 | 16 - 20 | **762 101 177** | 0.018 | 52 | 32 | 20 | 10 | 16 |



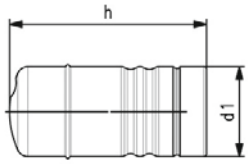



## iFIT Coupler/reducing module PPSU

- Material: PPSU

| d (mm) | Code | Weight (kg) | L (mm) | h (mm) | PN (bar) | PN at 20°C (bar) |
|---|---|---|---|---|---|---|
| 16 - 20 | **762 101 044** | 0.008 | 43 | 22 | 10 | 16 |
| 25 - 32 | **762 101 175** | 0.023 | 56 | 28 | 10 | 16 |



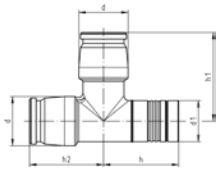



## iFIT Cap for adaptor ppsu

- Material: PPSU

| d (mm) | Code | Weight (kg) | d1 (mm) | h (mm) |
|---|---|---|---|---|
| 16 | **762 101 382** | 0.004 | 16 | 36 |
| 25 | **762 101 383** | 0.009 | 25 | 38 |






## iFIT T-piece module ppsu
## With pipe outline

- Material: PPSU

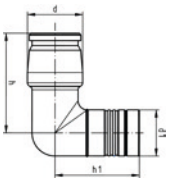
| d (mm) | Code | Weight (kg) | d1 (mm) | h (mm) | h1 (mm) | h2 (mm) | PN (bar) | PN at 20°C (bar) |
|---|---|---|---|---|---|---|---|---|
| 16/20 - 20 | **762 101 386** | 0.017 | 20 | 41 | 37 | 32 | 10 | 16 |
| 25/32 - 25 | **762 101 387** | 0.044 | 25 | 46 | 54 | 45 | 10 | 16 |



### iFIT Elbow module 90° ppsu
### With Pipe outline

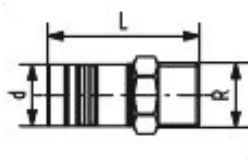
- Material: PPSU

| d (mm) | Size (inch) | Code | Weight (kg) | d1 (mm) | h (mm) | h1 (mm) | PN (bar) | PN at 20°C (bar) | SDR |
|---|---|---|---|---|---|---|---|---|---|
| 16 - 20 | 20 | **762 101 384** | 0.013 | 20 | 36 | 40 | 10 | 16 | 11 |
| 25 - 32 | 25 | **762 101 385** | 0.030 | 25 | 54 | 46 | 10 | 16 | 11 |




## Transition Modules



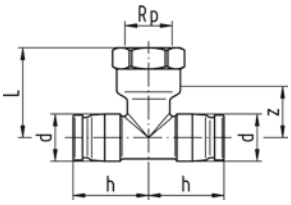



### iFIT Male thread adaptor stainless steel
### Pipe outline 1/2"

- Material: stainless steel
- Connection: male thread

| d (mm) | Thread Type | Size (inch) | PN (bar) | SDR | Code | Weight (kg) | L (mm) |
|---|---|---|---|---|---|---|---|
| 20 | R | ½ | 16 | 11 | **762 101 238** | 0.064 | 49 |



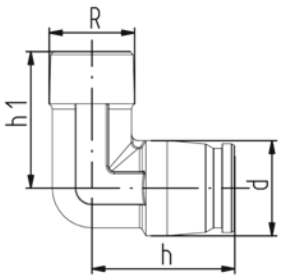



### iFIT Transition module brass
### With female thread

- Material: brass, dezincification resistant
- Connection: female thread

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | L (mm) | h (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| 16 - 20 | Rp | ½ | 16 | **762 101 272** | 0.129 | 38 | 32 | 25 |
| 25 - 32 | Rp | ¾ | 16 | **762 101 289** | 0.291 | 50 | 43 | 35 |



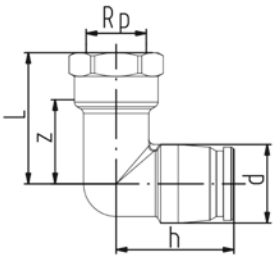



## iFIT Transition elbow module brass
## With male thread

- Material: brass, dezincification resistant
- Connection: male thread

| d (mm) | Thread Type | Size (inch) | Code | Weight (kg) | h (mm) | h1 (mm) |
|---|---|---|---|---|---|---|
| 16 - 20 | R | ½ | **762 101 270** | 0.071 | 30 | 34 |
| 16 - 20 | R | ¾ | **762 101 271** | 0.076 | 30 | 35 |
| 25 - 32 | R | ¾ | **762 101 285** | 0.189 | 45 | 43 |
| 25 - 32 | R | 1 | **762 101 286** | 0.214 | 45 | 45 |

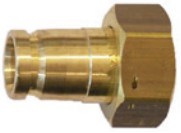


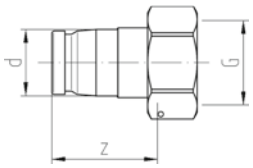



## iFIT Transition elbow module brass
## With female thread

- Material: brass, dezincification resistant
- Connection: female thread

| d (mm) | Thread Type | Size (inch) | Code | Weight (kg) | L (mm) | h (mm) | z (mm) |
|---|---|---|---|---|---|---|---|
| 16 - 20 | Rp | ½ | **762 101 287** | 0.102 | 38 | 32 | 25 |
| 16 - 20 | Rp | ¾ | **762 101 290** | 0.120 | 40 | 36 | 22 |
| 25 - 32 | Rp | ¾ | **762 101 288** | 0.211 | 50 | 45 | 33 |



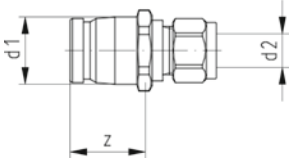



## iFIT Transition union module brass
## With flat sealed

- Material: brass, dezincification resistant
- Supplied with: sealing

| d (mm) | Thread Type | Size (inch) | Code | Weight (kg) | z (mm) |
|---|---|---|---|---|---|
| 16 - 20 | G | ½ | **762 101 276** | 0.070 | 41 |
| 16 - 20 | G | ¾ | **762 101 273** | 0.064 | 35 |
| 25 - 32 | G | ¾ | **762 101 281** | 0.155 | 48 |
| 25 - 32 | G | 1 | **762 101 282** | 0.179 | 55 |
| 25 - 32 | G | 1 ¼ | **762 101 283** | 0.251 | 48 |
| 25 - 32 | G | 1 ½ | **762 101 284** | 0.357 | 50 |



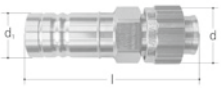



## iFIT Transition module brass
## With clamping end Copper

- Material: brass

| d1 (mm) | d2 (mm) | Code | Weight (kg) | z (mm) |
|---|---|---|---|---|
| 16 - 20 | 12 | **762 101 292** | 0.050 | 19 |
| 16 - 20 | 15 | **762 101 293** | 0.060 | 22 |





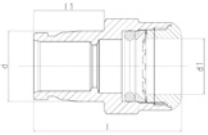
### iFIT Transition module brass
### With JRG Sanipex connector

- Material: brass, dezincification resistant

| D (mm) | GF Code | Weight (kg) | d (mm) | d1 (mm) | l (mm) |
|---|---|---|---|---|---|
| 16 - 12 | **762 101 347** | 0.061 | 12 | 16 | 58 |

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### iFIT Transition module brass
### With sudoFIT connector

- Material: brass

Permissible tubes can be found in the installation instructions for the fitter's toolkit JRG code 8130.000
Approved for the following pipe types and systems:(For other approvals, please contact our technical customer service).
**Stainless steel pipes** / PN16 / Ø 15, 18, 22, 28, 35, 42, 54 / Mapress / Optipress, Sanpress /inoxPRES
**Copper pipes** / PN10 / Ø 12, 15, 18, 22, 28, 35, 42, 54 / WICU, KME / SANCO, Wieland-Werke / SANCO, KME

| d (mm) | Code | Weight (kg) | d1 (mm) | l (mm) | l1 (mm) |
|---|---|---|---|---|---|
| 16 - 20 | **762 101 243** | 0.054 | 12 | 42 | 20 |
| 16 - 20 | **762 101 244** | 0.060 | 14 | 42 | 20 |
| 16 - 20 | **762 101 246** | 0.120 | 18 | 53 | 20 |
| 16 - 20 | **762 101 247** | 0.140 | 22 | 54 | 20 |
| 25 - 32 | **762 101 248** | 0.190 | 22 | 62 | 28 |

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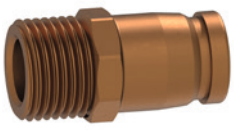


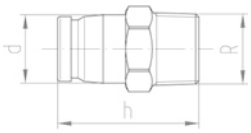

### iFIT Transition module brass
### With spigot ELGEF

- Description: for cold water
- Material: brass, PE

| d (mm) | GF Code | Weight (kg) | d1 (mm) | l (mm) |
|---|---|---|---|---|
| 16/20 - 20 | **762 101 350** | 0.087 | 20 | 98 |

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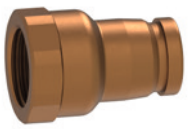


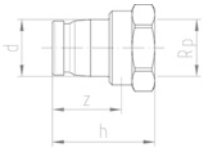

### iFIT Transition module gunmetal lead-free
### With male thread

- Material: gunmetal lead-free
- Connection: male thread

| d (mm) | Thread Type | Size (inch) | Code | Weight (kg) | h (mm) |
|---|---|---|---|---|---|
| 16 - 20 | R | ⅜ | **762 102 346** | 0.061 | 42 |
| 16 - 20 | R | ½ | **762 102 265** | 0.065 | 43 |
| 16 - 20 | R | ¾ | **762 102 266** | 0.071 | 43 |
| 25 - 32 | R | ¾ | **762 102 277** | 0.155 | 53 |
| 25 - 32 | R | 1 | **762 102 278** | 0.185 | 57 |

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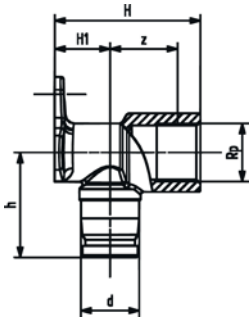

### iFIT Transition module gunmetal lead-free
### With female thread

- Material: gunmetal lead-free
- Connection: female thread

| d (mm) | Thread Type | Size (inch) | Code | Weight (kg) | h (mm) | z (mm) |
|---|---|---|---|---|---|---|
| 16 - 20 | Rp | ½ | **762 102 267** | 0.070 | 40 | 23 |
| 16 - 20 | Rp | ¾ | **762 102 268** | 0.094 | 42 | 25 |
| 25 - 32 | Rp | ¾ | **762 102 279** | 0.138 | 48 | 31 |
| 25 - 32 | Rp | 1 | **762 102 280** | 0.196 | 53 | 34 |

# Outlet Joints









### iFIT Single pipe outlet module brass

- Material: brass, dezincification resistant
- Connection: female thread

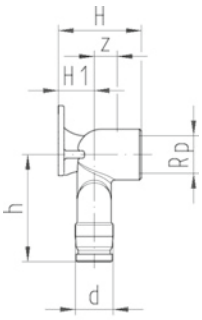
| d (mm) | Rp (inch) | Code | Weight (kg) | H (mm) | H1 (mm) | h (mm) | z (mm) |
|---|---|---|---|---|---|---|---|
| 16 - 20 | ½ | **762 101 364** | 0.181 | 50 | 19 | 36 | 12 |
| 16 - 20 | ½ | **762 101 274** | 0.181 | 64 | 19 | 36 | 32 |
| 16 - 20 | ½ | **762 101 321** | 0.272 | 95 | 19 | 39 | 63 |

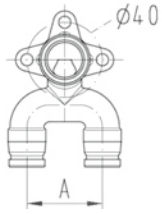


### iFIT Dual pipe outlet module brass

- Material: brass, dezincification resistant
- Connection: female thread

| d (mm) | Rp (inch) | Code | Weight (kg) | A (mm) | H (mm) | H1 (mm) | h (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| 16 - 20 | ½ | **762 101 261** | 0.240 | 40 | 50 | 19 | 57 | 12 |
| 16 - 20 | ½ | **762 101 275** | 0.282 | 40 | 64 | 19 | 57 | 32 |



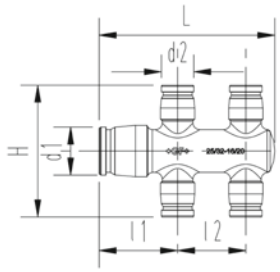

# Manifolds



### iFIT Manifold module PPSU

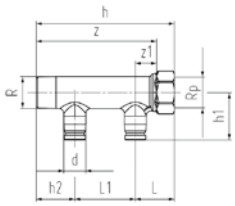
- Material: PPSU

| d (mm) | Size (inch) | d1 (mm) | d2 (mm) | outlet | Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 25 - 32 | 16 - 20 | 25 - 32 | 16 - 20 | 3-fold | **762 101 213** | 0.052 |
| 25 - 32 | 16 - 20 | 25 - 32 | 16 - 20 | 4-fold | **762 101 212** | 0.056 |




| L (mm) | l1 (mm) | l2 (mm) | H (mm) | PN (bar) | PN at 20°C (bar) |
|---|---|---|---|---|---|
| 103 | 46 | 40 | 77 | 10 | 16 |
| 103 | 46 | 40 | 77 | 10 | 16 |






### iFIT Manifold module gunmetal lead-free With center distance 55mm

- Material: gunmetal lead-free
- Connection: female thread, male thread

| d (mm) | Thread Type | Size (inch) | Thread Type 2 | Size 2 (inch) | outlet | Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 16 - 20 | Rp | ¾ | R | ¾ | 2-fold | **762 102 294** | 0.376 |
| 16 - 20 | Rp | ¾ | R | ¾ | 3-fold | **762 102 295** | 0.500 |
| 16 - 20 | Rp | ¾ | R | ¾ | 4-fold | **762 102 296** | 0.693 |

| d (mm) | h (mm) | h1 (mm) | h2 (mm) | L (mm) | L1 (mm) | z (mm) | z1 (mm) |
|---|---|---|---|---|---|---|---|
| 16 - 20 | 126 | 40 | 35 | 36 | 55 | 110 | 19 |
| 16 - 20 | 181 | 40 | 35 | 36 | 55 | 164 | 19 |
| 16 - 20 | 236 | 40 | 35 | 36 | 55 | 219 | 19 |

# Tools



### iFIT Tool set for ML- and PB pipes plastic

d16 / d20 with pipe scissor, d25 / d32 with pipe cutter

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 16 / 20 | **762 101 122** | 1.163 |
| 25 / 32 | **762 101 133** | 1.371 |



### iFIT Chamfering tool for ML- and PB pipes

- Material: steel, plastic

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 16 | **762 101 116** | 0.188 |
| 20 | **762 101 120** | 0.205 |
| 25 | **762 101 125** | 0.252 |
| 32 | **762 101 132** | 0.323 |



### iFIT plastic pipe cutter
### For ML- and PB pipes d16-d32

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 16 - 32 | **762 101 117** | 0.386 |
| Spare blades | **762 101 118** | 0.005 |



### iFIT Chamfering tool to battery tools metal

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 16 | **762 101 351** | 0.188 |
| 20 | **762 101 352** | 0.205 |
| 25 | **762 101 353** | 0.252 |
| 32 | **762 101 354** | 0.323 |



### iFIT Tool case empty plastic
### For chamfering tool

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 16 - 32 | **762 101 363** | 2.000 |



### iFIT Grab rail set metal

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 16 - 32 | **762 101 361** | 0.050 |



### iFIT Quick-change insert metal

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 16 - 32 | **762 101 362** | 0.039 |



### JRG Sanipex MT Hand bending template aluminium

- Material: aluminium

| d (mm) | JRG Code | GF Code | Weight (kg) | l (mm) |
|---|---|---|---|---|
| 16 | **4806.016** | **351 616 907** | 0.200 | 217 |
| 20 | **4806.020** | **351 620 907** | 0.320 | 270 |
| 26 | **4806.026** | **351 626 907** | 0.775 | 415 |

# Hycleen Automation System



## Your benefits

+ **Constant target temperature and regular water exchange**
+ **Central controller and state display**
+ **Logging and reporting**
+ **Remote monitoring**

## Technical data

**Materials**
Gunmetal, stainless steel, plastics

**Dimensions range**
DN15 – DN20

**Operating pressure**
Up to 10 bar

**Operating temperature**
5°C to 90°C

The value above listed are to be considered for water, in case of use chemical addition it is always recommended to contact GF specialist to an individual and more detailed assessment.

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|---|---|---|
|  | Master & Powerbox | 74 |
|   | Software Modules | 74 |
|  | Valves & Sensors | 75 |
|  | Cable & Accessories | 76 |

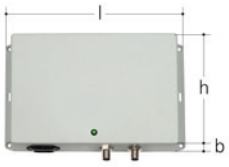
# Master & Powerbox




### Hycleen Automation Master

- Description: master for max. 50 controller
- Consisting of: touchscreen 10.1", power supply, 2 plugs M12 for 2x 984ft cable, 2 Rj45 jacks (Ethernet), 2 USB connections (read/write), USB jack (read only), relay output, screw set

| Voltage | JRG Code | GF Code | Weight (kg) | l (mm) | b (mm) | h (mm) | Version |
|---|---|---|---|---|---|---|---|
| 230V / 36V | **9900.000** | **351 110 656** | 2.300 | 326 | 84 | 214 | EU |
| 230V / 36V | **9900.001** | **351 110 655** | 2.300 | 326 | 84 | 214 | CH |
| 230V / 36V | **9900.003** | **351 110 679** | 2.300 | 326 | 84 | 214 | UK |




### Hycleen Automation Powerbox

- Description: Power supply of Hycleen Automation System for expansion of 300m cable length to max. 500m per cable line
- Consisting of: 2m power cable, screw set

| Voltage | JRG Code | GF Code | Weight (kg) | l (mm) | b (mm) | h (mm) | Version |
|---|---|---|---|---|---|---|---|
| 230V / 36V | **9901.000** | **351 110 626** | 1.000 | 244 | 64 | 164 | EU |
| 230V / 36V | **9901.001** | **351 110 625** | 1.000 | 244 | 64 | 164 | CH |
| 230V / 36V | **9901.003** | **351 110 659** | 1.000 | 244 | 64 | 164 | UK |

# Software Modules




### BMS Gateway REST API/JSON

- Description: interface for data communication

| JRG Code | GF Code |
|---|---|
| **9980.000** | **351 110 790** |




### BMS Gateway BACnet IP

- Description: interface for data communication

| JRG Code | GF Code |
|---|---|
| **9980.001** | **351 110 791** |





### JRG LegioTherm 2T circulation valve gunmetal with controller

- Temperature: max. 90°C
- Material: gunmetal lead-free, stainless steel, EPDM
- Factory setting: 57°C (adjustable 0 - 90°C) thermal desinfection 70°C (adjustable 60 - 90°C)
- Connection: male thread (for union connection with flat gasket)

| DN (mm) | Size (inch) | JRG Code | GF Code | Weight (kg) |
|---|---|---|---|---|
| 15 | ½ | **9910.015** | **351 110 550** | 0.820 |
| 20 | ¾ | **9910.020** | **351 110 590** | 1.050 |
| 25 | 1 | **9910.025** | **351 110 630** | 1.400 |

| DN (mm) | d1 G (inch) | d2 G (inch) | d3 Rp (inch) | l1 (mm) | l2 (mm) | l3 (mm) | l4 (mm) | b (mm) | h1 (mm) | h2 (mm) | PN (bar) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | ¾ | ½ | ¼ | 75 | 6 | 24 | 173 | 90 | 162 | 50 | 10 | 6 |
| 20 | 1 | ¾ | ¼ | 87 | 7 | 24 | 206 | 92 | 169 | 54 | 10 | 6 |
| 25 | 1 ¼ | 1 | ¼ | 99 | 8 | 24 | 233 | 100 | 179 | 56 | 10 | 6 |





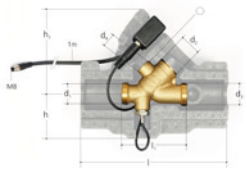
### JRG LegioTherm K Flushing valve gunmetal With controller

- Temperature: max. 90°C
- Material: gunmetal lead-free, stainless steel, EPDM
- Factory setting: 20°C (adjustable 0 - 90°C)
- Connection: male thread (for union connection with flat gasket)

*Note: Flushing valve JRG LegioTherm K must not be used without the consent of the holder of patents EP 1 845 207 B1 and DE 10 2006 017 807 B4 for use in a water system of the type described in these patents.

| DN (mm) | JRG Code | GF Code | Weight (kg) |
|---|---|---|---|
| 15 | **9920.015** | **351 110 600** | 0.810 |
| 20 | **9920.020** | **351 110 610** | 1.020 |

| DN (mm) | d1 G (inch) | d2 G (inch) | d3 Rp (inch) | l1 (mm) | l2 (mm) | l3 (mm) | l4 (mm) | b (mm) | h1 (mm) | h2 (mm) | PN (bar) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | ¾ | ½ | ¼ | 75 | 6 | 24 | 173 | 90 | 162 | 50 | 10 | 6 |
| 20 | 1 | ¾ | ¼ | 87 | 7 | 24 | 206 | 92 | 169 | 54 | 10 | 6 |



### JRG T-Sensor gunmetal

- Description: Temperature sensor PT 1000
- Temperature: max. 90°C
- Material: gunmetal
- Connection: male thread, plug M8

| d (mm) | JRG Code | Weight (kg) | GF Code | d1 G (inch) | d2 G (inch) | d3 G (inch) | d4 Rp (inch) | l (mm) | l1 (mm) | h (mm) | h1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | **9951.015** | 0.460 | **351 110 535** | ¾ | ½ | ¾ | ¼ | 173 | 75 | 50 | 162 |
| 20 | **9951.020** | 0.570 | **351 110 661** | 1 | ¾ | 1 | ¼ | 206 | 87 | 52 | 168 |



### T-Sensor, dimension independent

- Description: Temperature sensor PT 1000
- Temperature: max. 90°C
- Connection: plug M8

| d (inch) | JRG Code | GF Code | Weight (kg) | G (inch) | l (m) | ⬡ (mm) |
|---|---|---|---|---|---|---|
| ¼ | **9952.000** | **351 110 611** | 0.150 | ¼ | 1 | 17 |




### JRG Flow Sensor brass

- Temperature: max. 90°C
- Material: brass
- Connection: male thread, plug M8

| d G (inch) | DN (mm) | JRG Code | GF Code | Weight (kg) | l (mm) | l1 (mm) | h (mm) | h1 (mm) | h2 (mm) | PN (bar) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | **9950.020** | **351 110 772** | 0.250 | 60 | 15 | 999 | 49 | 32 | 16 |

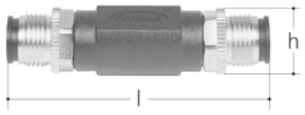
# Cable & Accessories




### Hycleen Automation power supply and communication cable

- Description: For serial connection of Hycleen Automation System components (master, controller), incl. 2x M12 plugs, ROHS

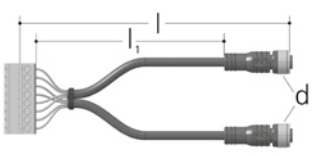
| L (m) | Voltage | JRG Code | GF Code | Weight (kg) | d (mm) | d1 (mm) |
|---|---|---|---|---|---|---|
| 1.5 | 36V | **9940.001** | **351 110 581** | 0.110 | 14.5 | 6.8 |
| 3 | 36V | **9940.003** | **351 110 541** | 0.110 | 14.5 | 6.8 |
| 5 | 36V | **9940.005** | **351 110 582** | 0.300 | 14.5 | 6.8 |
| 10 | 36V | **9940.010** | **351 110 583** | 0.630 | 14.5 | 6.8 |
| 20 | 36V | **9940.020** | **351 110 584** | 1.240 | 14.5 | 6.8 |
| 50 | 36V | **9940.050** | **351 110 585** | 3.200 | 14.5 | 6.8 |




### Hycleen Automation Coupling

- Description: Coupling between 2 Hycleen Automation power supply and communication cable
- Connection: plug M12

| JRG Code | GF Code | Weight (kg) | l (mm) | h (mm) |
|---|---|---|---|---|
| **9941.000** | **351 110 586** | 0.014 | 58 | 14 |




### Hycleen Automation Retrofit cable kit

- Description: Adapter cable kit for JRG LegioTherm cable

| d | JRG Code | GF Code | Weight (kg) | l (mm) | l1 (mm) |
|---|---|---|---|---|---|
| M12 | **9942.000** | **351 110 588** | 0.215 | 350 | 300 |




### Sensor Extension Cable

- Description: connection between sensor and controller
- Connection: plug M8

| GF Code | Weight (kg) | JRG Code | l (m) | l1 (mm) | l2 (mm) |
|---|---|---|---|---|---|
| **351 110 662** | 0.110 | **9943.005** | 5 | 34 | 42 |

# JRG Sanipex MT



## Your benefits

+ **Superior low pressure losses**
+ **Water pocket free hygienic connections**
+ **Detachable and reusable connection without sealing**
+ **Hardly any noise pollution**
+ **Handy installation tools**
+ **Hycienically perfect**
+ **Type III Environmental Product Declaration (EPD)**
+ **LEED, BREAM & DGNB credit reports**

## Technical data

**Materials**
PE-Xa, PE-Xc, PE-Xc/AL/PE-X, PPSU/PA-GF, gunmetal

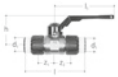
**Dimensions range**
d16 mm – d63 mm

**Jointing technology**
Electro fusion, socket fusion, butt fusion, compression joints

**Operating pressure**
Up to 10 bar

**Operating temperature**
0 to 70°C continuous operation, (short-term up to 95°C)

The value above listed are to be considered for water, in case of use chemical addition it is always recommended to contact GF specialist to an individual and more detailed assessment.

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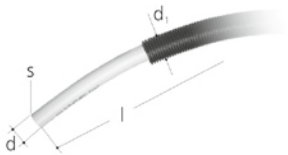
# Pipes




### JRG Sanipex MT Multilayer pipe in bars PE-Xc

- Description: in bars
- Material: multilayer pipe PE-X/AL/PE-X

| d (mm) | DN (mm) | JRG Code | GF Code | Weight (kg) | l (m) | s (mm) | kg/m (kg) |
|---|---|---|---|---|---|---|---|
| 16 | 12 | **4600.016** | **351 616 702** | 0.665 | 5 | 2.25 | 0.128 |
| 20 | 15 | **4600.020** | **351 620 702** | 0.925 | 5 | 2.50 | 0.200 |
| 26 | 20 | **4600.026** | **351 626 702** | 1.490 | 5 | 3.00 | 0.292 |
| 32 | 25 | **4600.032** | **351 632 702** | 1.965 | 5 | 3.00 | 0.400 |
| 40 | 32 | **4600.040** | **351 640 902** | 3.025 | 5 | 3.50 | 0.605 |
| 50 | 40 | **4600.050** | **351 650 902** | 4.350 | 5 | 4.00 | 0.870 |
| 63 | 50 | **4600.063** | **351 663 902** | 6.575 | 5 | 4.50 | 1.315 |
| 16 | 12 | **4600.316** | **351 616 712** | 0.399 | 3 | 2.25 | 0.127 |
| 20 | 15 | **4600.320** | **351 620 712** | 0.555 | 3 | 2.50 | 0.194 |
| 26 | 20 | **4600.326** | **351 626 712** | 0.894 | 3 | 3.00 | 0.400 |
| 32 | 25 | **4600.332** | **351 632 712** | 1.179 | 3 | 3.00 | 0.398 |
| 40 | 32 | **4600.340** | **351 640 912** | 1.815 | 3 | 3.50 | 0.606 |




### JRG Sanipex MT Pipe in pipe in coils PE-Xc Multilayerpipe with conduit

- Description: in coils with conduit
- Material: multilayer pipe PE-X/AL/PE-X, PE-conduit

| d (mm) | DN (mm) | JRG Code | GF Code | Weight (kg) | d1 (mm) | l (m) | s (mm) | kg/m (kg) |
|---|---|---|---|---|---|---|---|---|
| 16 | 12 | **4602.016** | **351 616 734** | 9.950 | 25 | 50 | 2.25 | 0.199 |
| 20 | 15 | **4602.020** | **351 620 734** | 13.550 | 29 | 50 | 2.50 | 0.271 |

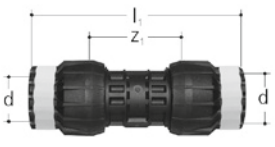



### JRG Sanipex MT Pipe in coils PE-Xc Multilayerpipe in coils

- Description: in coils
- Material: multilayer pipe PE-X/AL/PE-X

| d (mm) | DN (mm) | JRG Code | GF Code | Weight (kg) | l (m) | s (mm) | kg/m (kg) |
|---|---|---|---|---|---|---|---|
| 12 | 8 | **4604.112** | **351 612 014** | 6.900 | 100 | 1.70 | 0.069 |
| 16 | 12 | **4604.016** | **351 616 714** | 6.650 | 50 | 2.25 | 0.133 |
| 20 | 15 | **4604.020** | **351 620 714** | 9.850 | 50 | 2.50 | 0.197 |
| 26 | 20 | **4604.026** | **351 626 714** | 14.900 | 50 | 3.00 | 0.298 |
| 32 | 25 | **4604.032** | **351 632 714** | 19.650 | 50 | 3.00 | 0.393 |

# Fittings




### JRG Sanipex MT Coupler PPSU

- Description: to JRG Sanipex MT pipes
- Material: PPSU, PA
- Connection: cone grip union

| d (mm) | JRG Code | GF Code | Weight (kg) | l1 (mm) | z1 (mm) |
|---|---|---|---|---|---|
| 16 | **4690.016** | **351 616 920** | 0.026 | 76 | 37 |
| 20 | **4690.020** | **351 620 920** | 0.040 | 90 | 42 |
| 26 | **4690.026** | **351 626 920** | 0.077 | 108 | 50 |

table continued on the next page




| d (mm) | JRG Code | GF Code | Weight (kg) | l1 (mm) | z1 (mm) |
|---|---|---|---|---|---|
| 32 | **4690.032** | **351 632 920** | 0.190 | 127 | 53 |
| 40 | **4690.040** | **351 640 920** | 0.240 | 150 | 62 |
| 50 | **4690.050** | **351 650 820** | 0.385 | 166 | 64 |
| 63 | **4690.063** | **351 663 820** | 0.740 | 205 | 79 |




### JRG Sanipex MT Double union PPSU

- Description: to JRG Sanipex MT components
- Material: plastic
- Connection: cone grip union

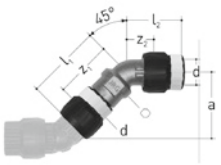
| d (mm) | JRG Code | GF Code | Weight (kg) | l (mm) |
|---|---|---|---|---|
| 16 | **4692.016** | **351 616 940** | 0.019 | 35 |
| 20 | **4692.020** | **351 620 940** | 0.031 | 46 |
| 26 | **4692.026** | **351 626 940** | 0.060 | 57 |
| 32 | **4692.032** | **351 632 940** | 0.108 | 72 |
| 40 | **4692.040** | **351 640 940** | 0.190 | 84 |
| 50 | **4692.050** | **351 650 940** | 0.330 | 104 |
| 63 | **4692.063** | **351 663 940** | 0.610 | 126 |




### JRG Sanipex MT Elbow 45° PPSU

- Description: to JRG Sanipex d20, JRG Sanipex MT
- Material: PPSU, PA
- Connection: cone grip union

| d (mm) | JRG Code | GF Code | Weight (kg) | l1 (mm) | l2 (mm) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|
| 20 | **4676.020** | **351 620 923** | 0.041 | 45 | 45 | 21 | 21 |
| 26 | **4676.026** | **351 626 923** | 0.075 | 56 | 56 | 27 | 27 |
| 32 | **4676.032** | **351 632 923** | 0.140 | 69 | 69 | 32 | 32 |
| 40 | **4676.040** | **351 640 923** | 0.260 | 81 | 81 | 37 | 37 |
| 50 | **4676.050** | **351 650 823** | 0.440 | 98 | 98 | 47 | 47 |
| 63 | **4676.063** | **351 663 823** | 0.840 | 119 | 119 | 56 | 56 |




### JRG Sanipex MT Elbow 45° gunmetal
### With loose nut

- Description: for JRG Sanipex d16/20, JRG Sanipex MT Pipes
- Material: PPSU, PA
- Connection: cone grip union

| d (mm) | JRG Code | GF Code | Weight (kg) | a (mm) | l1 (mm) | l2 (mm) | z1 (mm) | z2 (mm) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 26 | **4676.226** | **351 626 950** | 0.300 | 65 | 76 | 58 | 65 | 27 | 36 |
| 32 | **4676.232** | **351 632 965** | 0.480 | 72 | 82 | 72 | 70 | 32 | 43 |
| 40 | **4676.240** | **351 640 948** | 0.790 | 84 | 96 | 84 | 82 | 37 | 50 |
| 50 | **4676.250** | **351 650 936** | 1.130 | 90 | 98 | 98 | 80 | 48 | 60 |
| 63 | **4676.263** | **351 663 936** | 2.010 | 111 | 121 | 119 | 101 | 57 | 70 |



## JRG Sanipex MT Elbow 45° gunmetal With female thread

- Description: to JRG Sanipex, JRG Sanipex MT pipes
- Material: gunmetal, plastic
- Connection: female thread, cone grip union

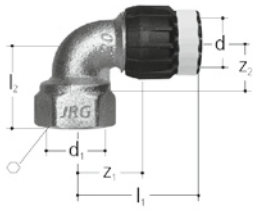
| d (mm) | GN (inch) | Size (inch) | JRG Code | GF Code | Weight (kg) | d1 | l1 (mm) | l2 (mm) | z1 (mm) | z2 (mm) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 26 | ¾ | ¾ | **4677.250** | **351 626 951** | 0.180 | 3/4 | 58 | 35 | 27 | 21 | 36 |
| 32 | 1 | 1 | **4677.310** | **351 632 966** | 0.270 | 1 | 72 | 32 | 32 | 15 | 43 |
| 40 | 1 ¼ | ⅝ | **4677.410** | **351 640 949** | 0.430 | 1 1/4 | 84 | 37 | 37 | 18 | 50 |
| 50 | 1 ½ | 1 ½ | **4677.510** | **351 650 937** | 0.700 | 1 1/2 | 98 | 42 | 48 | 23 | 60 |
| 63 | 2 | 2 | **4677.610** | **351 663 937** | 1.230 | 2 | 119 | 50 | 57 | 27 | 70 |



## JRG Sanipex MT Elbow 90° PPSU

- Description: for JRG Sanipex d16/20, JRG Sanipex MT Pipes
- Material: PPSU, PA
- Connection: cone grip union

| d (mm) | JRG Code | GF Code | Weight (kg) | l1 (mm) | l2 (mm) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|
| 16 | **4670.016** | **351 616 922** | 0.030 | 46 | 46 | 27 | 27 |
| 20 | **4670.020** | **351 620 922** | 0.045 | 55 | 55 | 31 | 31 |
| 26 | **4670.026** | **351 626 922** | 0.090 | 68 | 68 | 39 | 39 |
| 32 | **4670.032** | **351 632 922** | 0.155 | 82 | 82 | 45 | 45 |
| 40 | **4670.040** | **351 640 922** | 0.285 | 99 | 99 | 55 | 55 |
| 50 | **4670.050** | **351 650 822** | 0.455 | 114 | 114 | 63 | 63 |
| 63 | **4670.063** | **351 663 822** | 0.880 | 142 | 142 | 79 | 79 |



## JRG Sanipex MT Elbow 90° gunmetal With female thread

- Description: to JRG Sanipex, JRG Sanipex MT pipes
- Material: gunmetal, plastic
- Connection: female thread, cone grip union

| d (mm) | Size (inch) | GN (inch) | JRG Code | GF Code | Weight (kg) | d1 Rp (inch) | l1 (mm) | l2 (mm) | z1 (mm) | z2 (mm) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | ⅜ | ⅜ | **4671.100** | **351 616 918** | 0.072 | ⅜ | 46 | 27 | 27 | 17 | 25 |
| 16 | ½ | ½ | **4671.110** | **351 616 974** | 0.100 | ½ | 43 | 33 | 25 | 17 | 27 |
| 20 | ½ | ½ | **4671.210** | **351 620 918** | 0.120 | ½ | 55 | 34 | 31 | 21 | 30 |
| 20 | ¾ | ¾ | **4671.220** | **351 620 974** | 0.140 | ¾ | 56 | 36 | 30 | 22 | 32 |
| 26 | ¾ | ¾ | **4671.250** | **351 626 949** | 0.180 | ¾ | 68 | 37 | 39 | 23 | 36 |
| 32 | 1 | 1 | **4671.310** | **351 632 964** | 0.310 | 1 | 85 | 45 | 45 | 28 | 43 |
| 40 | ⅝ | 1 ¼ | **4671.410** | **351 640 947** | 0.500 | 1 ¼ | 99 | 50 | 55 | 31 | 50 |
| 50 | 1 ½ | 1 ½ | **4671.510** | **351 650 935** | 0.770 | 1 ½ | 114 | 59 | 63 | 40 | 60 |
| 63 | 2 | 2 | **4671.610** | **351 663 935** | 1.350 | 2 | 142 | 67 | 79 | 44 | 70 |



## JRG Sanipex MT Elbow 90° gunmetal With male thread

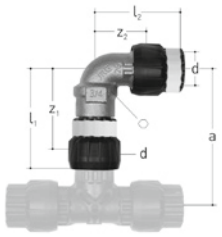
- Description: for JRG Sanipex d16/20, JRG Sanipex MT Pipes
- Material: gunmetal, plastic
- Connection: male thread, cone grip union

| d (mm) | GN (inch) | JRG Code | GF Code | Weight (kg) | d1 R (inch) | l1 (mm) | l2 (mm) | z1 (mm) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 16 | ½ | **4672.110** | **351 616 975** | 0.070 | ½ | 44 | 31 | 25 | 18 |
| 16 | ¾ | **4672.120** | **351 616 914** | 0.102 | ¾ | 49 | 35 | 28 | 18 |
| 20 | ½ | **4672.210** | **351 620 975** | 0.092 | ½ | 50 | 33 | 27 | 21 |
| 20 | ¾ | **4672.220** | **351 620 976** | 0.105 | ¾ | 52 | 35 | 30 | 21 |

table continued on the next page



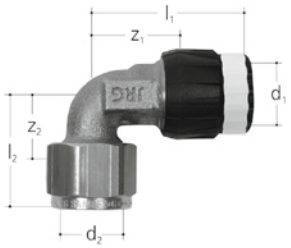
| d (mm) | GN (inch) | JRG Code | GF Code | Weight (kg) | d1 R (inch) | l1 (mm) | l2 (mm) | z1 (mm) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 26 | ¾ | **4672.250** | **351 626 993** | 0.180 | ¾ | 69 | 54 | 39 | 27 |
| 32 | 1 | **4672.310** | **351 632 994** | 0.280 | 1 | 83 | 60 | 45 | 32 |
| 40 | 1 ¼ | **4672.410** | **351 640 994** | 0.480 | 1 ¼ | 106 | 74 | 55 | 46 |
| 50 | 1 ½ | **4672.510** | **351 650 994** | 0.779 | 1 ½ | 111 | 62 | 60 | 50 |



## JRG Sanipex MT Elbow 90° gunmetal
## With loose nut

- Description: for JRG Sanipex d16/20, JRG Sanipex MT Pipes
- Material: gunmetal, plastic
- Connection: cone grip union

| d (mm) | JRG Code | GF Code | Weight (kg) | a (mm) | b (mm) | l1 (mm) | l2 (mm) | z1 (mm) | z2 (mm) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | **4670.216** | **351 616 917** | 0.111 | 73 | 16 | 53 | 46 | 46 | 27 | 25 |
| 20 | **4670.220** | **351 620 917** | 0.180 | 89 | 20 | 67 | 58 | 58 | 32 | 30 |
| 26 | **4670.226** | **351 626 948** | 0.300 | 106 | 26 | 80 | 71 | 67 | 39 | 36 |
| 32 | **4670.232** | **351 632 963** | 0.120 | 128 | 32 | 98 | 86 | 82 | 46 | 43 |
| 40 | **4670.240** | **351 640 946** | 0.860 | 150 | 40 | 113 | 103 | 95 | 56 | 50 |
| 50 | **4670.250** | **351 650 934** | 1.200 | 157 | 50 | 115 | 114 | 94 | 65 | 60 |
| 63 | **4670.263** | **351 663 934** | 2.110 | 188 | 63 | 138 | 142 | 110 | 82 | 70 |



## JRG Sanipex MT Transition bend gunmetal
## With loose nut

- Description: to JRG Sanipex, JRG Sanipex MT pipes
- Material: gunmetal, brass, plastic
- Connection: female thread, gasket, lose nut, cone grip union

| d (mm) | GN (inch) | Size (inch) | JRG Code | GF Code | Weight (kg) | d1 (mm) | d2 G (inch) | l1 (mm) | l2 (mm) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | ½ | ½ | **4674.016** | **351 563 023** | 0.091 | 16 | ½ | 46 | 32 | 27 | 22 |



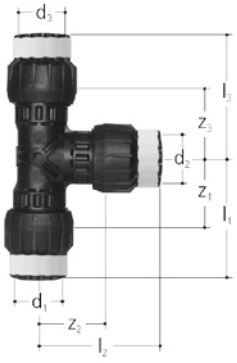
## JRG Sanipex MT T-piece equal PPSU

- Description: for JRG Sanipex d16/20, JRG Sanipex MT Pipes
- Material: PPSU, PA
- Connection: cone grip union

| d (mm) | d-d-d (mm) | JRG Code | GF Code | Weight (kg) |
|---|---|---|---|---|
| 16 | 16 - 16 - 16 | **4650.016** | **351 616 921** | 0.040 |
| 20 | 20 - 20 - 20 | **4650.020** | **351 620 921** | 0.070 |
| 26 | 26 - 26 - 26 | **4650.026** | **351 626 921** | 0.130 |
| 32 | 32 - 32 - 32 | **4650.032** | **351 632 921** | 0.220 |
| 40 | 40 - 40 - 40 | **4650.040** | **351 640 921** | 0.420 |
| 50 | 50 - 50 - 50 | **4650.050** | **351 650 821** | 0.660 |
| 63 | 63 - 63 - 63 | **4650.063** | **351 663 821** | 1.295 |

| d1 (mm) | d2 (mm) | d3 (mm) | l1 (mm) | l2 (mm) | l3 (mm) | z1 (mm) | z2 (mm) | z3 (mm) |
|---|---|---|---|---|---|---|---|---|
| 16 | 16 | 16 | 46 | 46 | 46 | 27 | 27 | 27 |
| 20 | 20 | 20 | 55 | 55 | 55 | 31 | 31 | 31 |
| 26 | 26 | 26 | 68 | 68 | 68 | 39 | 39 | 39 |

table continued on the next page




| d1 (mm) | d2 (mm) | d3 (mm) | l1 (mm) | l2 (mm) | l3 (mm) | z1 (mm) | z2 (mm) | z3 (mm) |
|---|---|---|---|---|---|---|---|---|
| 32 | 32 | 32 | 82 | 82 | 82 | 45 | 45 | 45 |
| 40 | 40 | 40 | 99 | 99 | 99 | 55 | 55 | 55 |
| 50 | 50 | 50 | 114 | 114 | 114 | 64 | 64 | 64 |
| 63 | 63 | 63 | 142 | 142 | 142 | 79 | 79 | 79 |

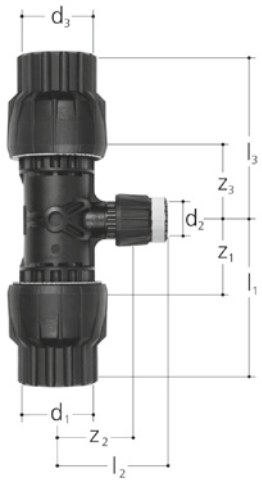



## JRG Sanipex MT T-piece reduced PPSU

- Description: for JRG Sanipex d16/20, JRG Sanipex MT Pipes
- Material: PPSU, PA
- Connection: cone grip union

| d (mm) | d-d-d (mm) | JRG Code | GF Code | Weight (kg) |
|---|---|---|---|---|
| 20 | 20 - 16 - 16 | **4652.110** | **351 620 924** | 0.050 |
| 20 | 20 - 16 - 20 | **4652.112** | **351 620 926** | 0.060 |
| 20 | 20 - 20 - 16 | **4652.114** | **351 620 927** | 0.060 |
| 26 | 26 - 16 - 26 | **4652.214** | **351 626 924** | 0.100 |
| 26 | 26 - 20 - 20 | **4652.218** | **351 626 928** | 0.095 |
| 26 | 26 - 20 - 26 | **4652.220** | **351 626 925** | 0.110 |
| 26 | 26 - 26 - 20 | **4652.222** | **351 626 929** | 0.110 |
| 32 | 32 - 16 - 32 | **4652.316** | **351 632 924** | 0.170 |
| 32 | 32 - 20 - 32 | **4652.324** | **351 632 928** | 0.180 |
| 32 | 32 - 26 - 26 | **4652.330** | **351 632 930** | 0.170 |
| 32 | 32 - 26 - 32 | **4652.332** | **351 632 929** | 0.181 |
| 40 | 40 - 26 - 32 | **4652.426** | **351 640 932** | 0.280 |
| 40 | 40 - 26 - 40 | **4652.428** | **351 640 928** | 0.330 |
| 40 | 40 - 32 - 32 | **4652.436** | **351 640 931** | 0.310 |
| 40 | 40 - 32 - 40 | **4652.438** | **351 640 930** | 0.360 |

| d1 (mm) | d2 (mm) | d3 (mm) | l1 (mm) | l2 (mm) | l3 (mm) | z1 (mm) | z2 (mm) | z3 (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | 16 | 16 | 55 | 48 | 46 | 31 | 29 | 27 |
| 20 | 16 | 20 | 55 | 48 | 55 | 31 | 29 | 31 |
| 20 | 20 | 16 | 55 | 55 | 48 | 31 | 31 | 29 |
| 26 | 16 | 26 | 68 | 52 | 68 | 39 | 33 | 39 |
| 26 | 20 | 20 | 68 | 59 | 55 | 39 | 35 | 31 |
| 26 | 20 | 26 | 68 | 59 | 68 | 39 | 35 | 39 |
| 26 | 26 | 20 | 68 | 68 | 59 | 39 | 39 | 35 |
| 32 | 16 | 32 | 82 | 57 | 82 | 45 | 38 | 45 |
| 32 | 20 | 32 | 82 | 64 | 82 | 45 | 40 | 45 |
| 32 | 26 | 26 | 82 | 73 | 68 | 45 | 44 | 39 |
| 32 | 26 | 32 | 82 | 73 | 82 | 45 | 44 | 45 |
| 40 | 26 | 32 | 99 | 79 | 82 | 55 | 50 | 45 |
| 40 | 26 | 40 | 99 | 79 | 99 | 55 | 50 | 55 |
| 40 | 32 | 32 | 99 | 89 | 82 | 55 | 52 | 45 |
| 40 | 32 | 40 | 99 | 89 | 99 | 55 | 52 | 55 |

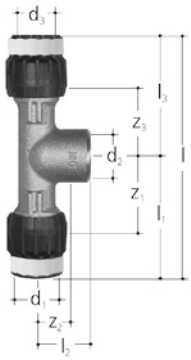



## JRG Sanipex MT T-piece reduced PPSU

- Description: to JRG Sanipex MT pipes
- Material: PPSU, PA
- Connection: cone grip union

| d (mm) | d-d-d (mm) | JRG Code | GF Code | Weight (kg) |
|---|---|---|---|---|
| 50 | 50 - 26 - 50 | **4652.530** | **351 650 827** | 0.500 |
| 50 | 50 - 32 - 50 | **4652.534** | **351 650 828** | 0.525 |
| 50 | 50 - 40 - 40 | **4652.544** | **351 650 829** | 0.490 |
| 50 | 50 - 40 - 50 | **4652.546** | **351 650 830** | 0.570 |
| 63 | 63 - 26 - 63 | **4652.634** | **351 663 828** | 0.925 |
| 63 | 63 - 32 - 63 | **4652.638** | **351 663 829** | 0.955 |
| 63 | 63 - 40 - 63 | **4652.642** | **351 663 830** | 1.000 |
| 63 | 63 - 50 - 63 | **4652.656** | **351 663 831** | 1.105 |

| d1 (mm) | d2 (mm) | d3 (mm) | l1 (mm) | l2 (mm) | l3 (mm) | z1 (mm) | z2 (mm) | z3 (mm) |
|---|---|---|---|---|---|---|---|---|
| 50 | 26 | 50 | 114 | 75 | 114 | 63 | 46 | 63 |
| 50 | 32 | 50 | 114 | 85 | 114 | 63 | 48 | 63 |
| 50 | 40 | 40 | 114 | 96 | 96 | 63 | 52 | 52 |
| 50 | 40 | 50 | 114 | 96 | 114 | 63 | 52 | 63 |
| 63 | 26 | 63 | 142 | 84 | 142 | 79 | 55 | 79 |
| 63 | 32 | 63 | 142 | 94 | 142 | 79 | 57 | 79 |
| 63 | 40 | 63 | 142 | 104 | 142 | 79 | 60 | 79 |
| 63 | 50 | 63 | 142 | 120 | 142 | 79 | 69 | 79 |



## JRG Sanipex MT T-piece gunmetal
## With female thread

- Description: to JRG Sanipex MT pipes
- Material: gunmetal, plastic
- Connection: female thread, cone grip union

| d (mm) | Size (inch) | d-d (mm) | GN (inch) | JRG Code | GF Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 16 | ½ | 16 - 16 | ½ | **4654.110** | **351 616 044** | 0.130 |
| 20 | ½ | 20 - 20 | ½ | **4654.210** | **351 620 944** | 0.190 |
| 26 | ½ | 26 - 26 | ½ | **4654.220** | **351 626 944** | 0.270 |
| 26 | ¾ | 26 - 26 | ¾ | **4654.250** | **351 626 945** | 0.295 |
| 32 | ½ | 32 - 32 | ½ | **4654.290** | **351 632 944** | 0.410 |
| 32 | ¾ | 32 - 32 | ¾ | **4654.310** | **351 632 945** | 0.430 |

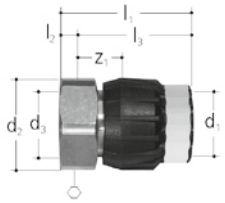
| d1 (mm) | d2 Rp (inch) | d3 (mm) | l (mm) | l1 (mm) | l2 (mm) | l3 (mm) | z1 (mm) | z2 (mm) | z3 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 16 | ½ | 16 | 108 | 54 | 27 | 54 | 35 | 12 | 35 |
| 20 | ½ | 20 | 125 | 63 | 28 | 63 | 39 | 13 | 39 |
| 26 | ½ | 26 | 149 | 70 | 34 | 70 | 41 | 19 | 41 |
| 26 | ¾ | 26 | 149 | 70 | 34 | 70 | 41 | 18 | 41 |
| 32 | ½ | 32 | 172 | 86 | 34 | 86 | 49 | 19 | 49 |
| 32 | ¾ | 32 | 182 | 86 | 34 | 86 | 49 | 18 | 49 |



## JRG Sanipex MT T-piece gunmetal
## With male thread

- Description: to JRG Sanipex, JRG Sanipex MT pipes
- Material: gunmetal, plastic
- Connection: male thread, cone grip union

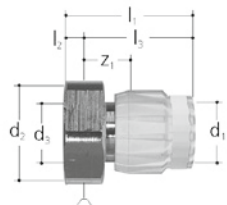
| d (mm) | GN (inch) | d-d (mm) | Size (inch) | JRG Code | GF Code | Weight (kg) | d1 R (inch) | l1 (mm) | l2 (mm) | l3 (mm) | z2 (mm) | z3 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | ½ | 16 - 16 | ½ | **4655.100** | **351 616 972** | 0.100 | ½ | 29 | 44 | 44 | 26 | 26 |
| 16 | ¾ | 16 - 16 | ¾ | **4655.200** | **351 616 973** | 0.135 | ¾ | 35 | 44 | 44 | 26 | 26 |
| 20 | ¾ | 20 - 20 | ¾ | **4655.220** | **351 620 973** | 0.170 | ¾ | 35 | 52 | 52 | 30 | 30 |



## JRG Sanipex MT Transition gunmetal
## With cone

- Description: for heating element connection
- Material: gunmetal, plastic
- Connection: female thread, gasket, insert-Eurocone, cone grip union

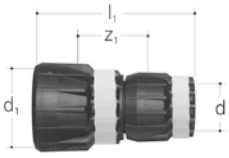
| d (mm) | JRG Code | GF Code | Weight (kg) | d1 (mm) | d2 G (inch) | d3 (mm) | l1 (mm) | l2 (mm) | l3 (mm) | z1 (mm) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | **4663.016** | **351 564 402** | 0.065 | 16 | ¾ | 18 | 42 | 8 | 34 | 15 | 32 |
| 20 | **4663.020** | **351 564 403** | 0.080 | 20 | ¾ | 18 | 47 | 8 | 39 | 16 | 32 |



## JRG Sanipex MT Transition gunmetal
## With cone, nickle-plated

- Description: for heating element connection
- Material: gunmetal, nickel-plated, plastic
- Connection: female thread, gasket, insert-Eurocone, cone grip union

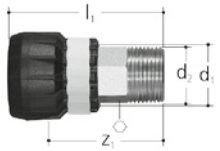
| d (mm) | JRG Code | GF Code | Weight (kg) | d1 (mm) | d2 G (inch) | d3 (mm) | l1 (mm) | l2 (mm) | l3 (mm) | z1 (mm) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | **4663.116** | **351 564 412** | 0.060 | 16 | ¾ | 18 | 42 | 8 | 34 | 15 | 32 |




## JRG Sanipex MT Reduction PPSU

- Description: for JRG Sanipex d16/20, JRG Sanipex MT Pipes
- Material: PPSU, PA
- Connection: cone grip union

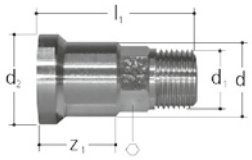
| d1 (mm) | d (mm) | JRG Code | GF Code | Weight (kg) | l1 (mm) | z1 (mm) |
|---|---|---|---|---|---|---|
| 20 | 16 | **4730.100** | **351 620 925** | 0.035 | 58.0 | 31 |
| 26 | 16 | **4730.102** | **351 626 926** | 0.050 | 70.5 | 41 |
| 26 | 20 | **4730.104** | **351 626 927** | 0.055 | 74.0 | 39 |
| 32 | 16 | **4730.106** | **351 632 925** | 0.075 | 82.0 | 52 |
| 32 | 20 | **4730.108** | **351 632 926** | 0.075 | 87.0 | 50 |
| 32 | 26 | **4730.110** | **351 632 927** | 0.095 | 92.0 | 50 |
| 40 | 16 | **4730.112** | **351 640 924** | 0.125 | 94.0 | 61 |
| 40 | 20 | **4730.114** | **351 640 925** | 0.132 | 100.0 | 61 |
| 40 | 26 | **4730.116** | **351 640 926** | 0.140 | 105.0 | 61 |
| 40 | 32 | **4730.118** | **351 640 927** | 0.160 | 111.0 | 58 |
| 50 | 26 | **4730.124** | **351 650 824** | 0.160 | 110.0 | 57 |
| 50 | 32 | **4730.126** | **351 650 825** | 0.185 | 118.0 | 58 |
| 50 | 40 | **4730.128** | **351 650 826** | 0.240 | 128.0 | 59 |
| 63 | 32 | **4730.136** | **351 663 825** | 0.100 | 134.0 | 67 |
| 63 | 40 | **4730.138** | **351 663 826** | 0.345 | 145.0 | 71 |
| 63 | 50 | **4730.140** | **351 663 827** | 0.430 | 158.0 | 77 |




## JRG Sanipex MT Adapter gunmetal
## With male thread and union

- Description: to JRG Sanipex MT components
- Material: gunmetal, plastic
- Connection: male thread, cone grip union

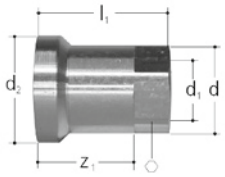
| d (mm) | GN (inch) | JRG Code | GF Code | Weight (kg) | d1 (mm) | d2 R (inch) | l1 (mm) | z1 (mm) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 20 | ½ | **4696.210** | **351 620 931** | 0.090 | 20 | ½ | 59 | 34 | 18 |
| 26 | ¾ | **4696.220** | **351 626 960** | 0.155 | 26 | ¾ | 70 | 41 | 23 |




## JRG Sanipex MT Adapter gunmetal
## With male thread

- Description: to JRG Sanipex MT components
- Material: gunmetal, plastic
- Connection: male thread, cone grip union

| d (mm) | GN (inch) | JRG Code | GF Code | Weight (kg) | d1 R (inch) | d2 (mm) | l1 (mm) | z1 (mm) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 26 | ½ | **4696.215** | **351 626 983** | 0.115 | ½ | 32 | 55 | 42 | 21 |
| 32 | ½ | **4696.315** | **351 632 984** | 0.170 | ½ | 39 | 62 | 49 | 21 |
| 32 | ¾ | **4696.320** | **351 632 982** | 0.205 | ¾ | 39 | 65 | 50 | 27 |
| 40 | ½ | **4696.415** | **351 640 987** | 0.278 | ½ | 49 | 69 | 56 | 21 |
| 40 | ¾ | **4696.420** | **351 640 982** | 0.310 | ¾ | 49 | 72 | 57 | 27 |
| 40 | 1 | **4696.425** | **351 640 983** | 0.330 | 1 | 49 | 78 | 59 | 32 |




## JRG Sanipex MT Adapter gunmetal
## With female thread

- Description: to JRG Sanipex MT components
- Material: gunmetal, plastic
- Connection: female thread, cone grip union

| d (mm) | GN (inch) | JRG Code | GF Code | Weight (kg) | d1 Rp (inch) | d2 (mm) | l1 (mm) | z1 (mm) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 26 | ⅜ | **4697.210** | **351 626 982** | 0.105 | ⅜ | 32 | 39 | 27 | 24 |
| 26 | ½ | **4697.215** | **351 626 933** | 0.100 | ½ | 32 | 39 | 24 | 24 |
| 32 | ½ | **4697.315** | **351 632 983** | 0.160 | ½ | 39 | 47 | 34 | 27 |
| 40 | ½ | **4697.415** | **351 640 984** | 0.270 | ½ | 49 | 54 | 40 | 27 |
| 40 | ¾ | **4697.420** | **351 640 985** | 0.260 | ¾ | 49 | 55 | 40 | 32 |

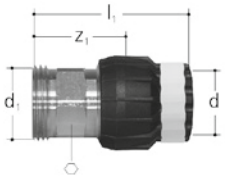



## JRG Sanipex MT Transition union gunmetal

- Description: for JRG Sanipex d16/20, JRG Sanipex MT Pipes
- Material: gunmetal, plastic
- Connection: JRG Sanipex MT

Not suitable for direct connection to water meters, as replacement only possible with JRG Sanipex MT ratchet torque wrench.

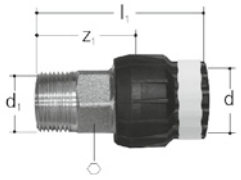
| d (mm) | GN (inch) | JRG Code | GF Code | Weight (kg) | d1 G (inch) | l1 (mm) | l2 (mm) | l3 (mm) | z1 (mm) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | ½ | **4700.096** | **351 616 992** | 0.068 | ½ | 43.0 | 6.0 | 37.0 | 16.5 | 27 |
| 20 | ½ | **4700.098** | **351 620 968** | 0.071 | ½ | 50.0 | 6.0 | 44.0 | 17.5 | 27 |
| 16 | ¾ | **4700.102** | **351 616 994** | 0.066 | ¾ | 39.0 | 6.0 | 33.0 | 14.5 | 32 |
| 20 | ¾ | **4700.104** | **351 620 992** | 0.070 | ¾ | 44.0 | 6.0 | 38.0 | 15.5 | 32 |
| 26 | ¾ | **4700.106** | **351 626 919** | 0.100 | ¾ | 57.0 | 6.0 | 49.0 | 20.0 | 32 |
| 16 | 1 | **4700.108** | **351 616 936** | 0.135 | 1 | 42.5 | 7.0 | 35.5 | 22.5 | 37 |
| 20 | 1 | **4700.110** | **351 620 936** | 0.080 | 1 | 49.0 | 7.0 | 42.0 | 20.5 | 37 |
| 26 | 1 | **4700.112** | **351 626 994** | 0.115 | 1 | 54.5 | 7.0 | 47.5 | 18.5 | 37 |
| 16 | 1 ¼ | **4700.120** | **351 616 996** | 0.130 | 1 ¼ | 41.0 | 8.0 | 33.0 | 14.5 | 46 |
| 20 | 1 ¼ | **4700.122** | **351 620 994** | 0.130 | 1 ¼ | 46.0 | 8.0 | 38.0 | 15.5 | 46 |
| 26 | 1 ¼ | **4700.124** | **351 626 995** | 0.150 | 1 ¼ | 55.5 | 8.0 | 47.5 | 18.5 | 46 |
| 32 | 1 ¼ | **4700.126** | **351 632 995** | 0.200 | 1 ¼ | 65.5 | 8.0 | 57.5 | 19.5 | 46 |
| 26 | 1 ½ | **4700.128** | **351 626 996** | 0.200 | 1 ½ | 56.5 | 9.0 | 47.5 | 18.5 | 54 |
| 32 | 1 ½ | **4700.130** | **351 632 996** | 0.260 | 1 ½ | 66.5 | 9.0 | 57.5 | 19.5 | 54 |
| 40 | 1 ½ | **4700.132** | **351 640 995** | 0.330 | 1 ½ | 77.5 | 9.0 | 68.5 | 23.5 | 55 |
| 40 | 2 | **4700.136** | **351 640 996** | 0.420 | 2 | 82.5 | 13.5 | 69.0 | 24.5 | 67 |
| 50 | 1 ¾ | **4700.134** | **351 650 995** | 0.550 | 1 ¾ | 81.5 | 10.0 | 71.5 | 33.0 | 60 |
| 50 | 2 ¼ | **4700.138** | **351 650 996** | 0.667 | 2 ¼ | 82.5 | 11.0 | 71.5 | 34.0 | 72 |
| 63 | 2 ⅜ | **4700.140** | **351 663 995** | 0.950 | 2 ⅜ | 99.5 | 11.0 | 88.5 | 39.0 | 78 |
| 63 | 2 ¾ | **4700.142** | **351 663 996** | 1.050 | 2 ¾ | 100.0 | 13.5 | 86.5 | 40.0 | 89 |




## JRG Sanipex MT Transition gunmetal
## For manifold union

- Description: to JRG Sanipex d20, JRG Sanipex MT
- Material: gunmetal, plastic
- Connection: male thread, cone grip union

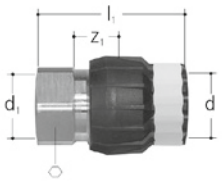
| d (mm) | GN (mm) | JRG Code | GF Code | Weight (kg) | d1 G (inch) | l2 (mm) | z1 (mm) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | 1 | **4705.020** | **351 620 989** | 0.120 | 1 | 58 | 35 | 30 |
| 26 | 1 | **4705.026** | **351 626 991** | 0.150 | 1 | 68 | 39 | 30 |
| 32 | 1 | **4705.032** | **351 632 993** | 0.185 | 1 | 78 | 38 | 30 |




## JRG Sanipex MT Transition gunmetal
## With male thread

- Description: for JRG Sanipex d16/20, JRG Sanipex MT Pipes
- Material: gunmetal, plastic
- Connection: male thread, cone grip union

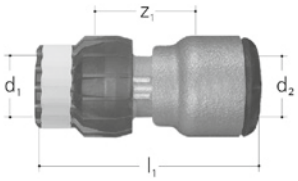
| d (mm) | GN (inch) | JRG Code | GF Code | Weight (kg) | d1 (mm) | d1 R (inch) | l1 (mm) | z1 (mm) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 16 | ½ | **4710.110** | **351 616 997** | 0.070 | 16 | ½ | 50 | 31 | 21 |
| 16 | ¾ | **4710.150** | **351 620 933** | 0.100 | 16 | ¾ | 57 | 37 | 21 |
| 20 | ½ | **4710.210** | **351 620 995** | 0.077 | 20 | ½ | 59 | 36 | 21 |
| 20 | ¾ | **4710.220** | **351 620 996** | 0.110 | 20 | ¾ | 60 | 37 | 21 |
| 26 | ¾ | **4710.250** | **351 626 997** | 0.130 | 26 | ¾ | 74 | 44 | 27 |
| 26 | 1 | **4710.260** | **351 626 987** | 0.160 | 26 | 1 | 77 | 47 | 30 |
| 32 | 1 | **4710.310** | **351 632 997** | 0.200 | 32 | 1 | 88 | 50 | 32 |
| 40 | 1 ¼ | **4710.410** | **351 640 997** | 0.440 | 40 | 1 ¼ | 103 | 58 | 46 |
| 50 | 1 ½ | **4710.510** | **351 650 997** | 0.550 | 50 | 1 ½ | 118 | 67 | 50 |
| 63 | 2 | **4710.610** | **351 663 997** | 0.990 | 63 | 2 | 143 | 80 | 65 |




## JRG Sanipex MT Transition gunmetal
## With female thread

- Description: for JRG Sanipex d16/20, JRG Sanipex MT Pipes
- Material: gunmetal, plastic
- Connection: female thread, cone grip union

| d (mm) | GN (inch) | JRG Code | GF Code | Weight (kg) | d1 Rp (inch) | l1 (mm) | z1 (mm) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|
| 16 | ½ | **4712.110** | **351 616 998** | 0.070 | ½ | 47 | 15 | 27 |
| 20 | ½ | **4712.210** | **351 620 997** | 0.078 | ½ | 51 | 15 | 27 |
| 20 | ¾ | **4712.220** | **351 620 998** | 0.100 | ¾ | 54 | 17 | 32 |
| 26 | ½ | **4712.240** | **351 626 988** | 0.103 | ½ | 64 | 16 | 27 |
| 26 | ¾ | **4712.250** | **351 626 998** | 0.120 | ¾ | 61 | 17 | 32 |
| 26 | 1 | **4712.260** | **351 626 984** | 0.190 | 1 | 67 | 20 | 41 |
| 32 | 1 | **4712.310** | **351 632 998** | 0.220 | 1 | 74 | 19 | 41 |
| 40 | 1 ¼ | **4712.410** | **351 640 998** | 0.350 | 1 ¼ | 86 | 22 | 50 |
| 50 | 1 ½ | **4712.510** | **351 650 998** | 0.480 | 1 ½ | 95 | 28 | 55 |
| 63 | 2 | **4712.610** | **351 663 998** | 0.900 | 2 | 115 | 33 | 70 |




## JRG Sanipex MT Transition gunmetal
## With push-in connection

- Description: for stainless steel / copper pipes
- Temperature: max. 90°C
- Material: gunmetal, PPSU
- Connection: push-in system sudoFIT

Permissible tubes can be found in the installation instructions for the fitter's toolkit JRG code 8130.000

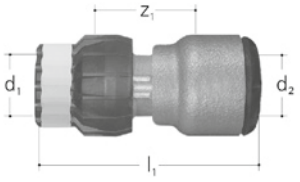
Approved for the following pipe types and systems:(For other approvals, please contact our technical customer service).

**Stainless steel pipes** / PN16 / Ø 15, 18, 22, 28, 35, 42, 54 / Mapress / Optipress, Sanpress /inoxPRES

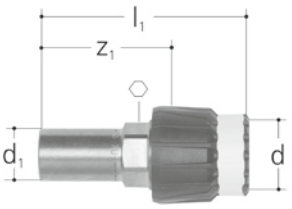
**Copper pipes** / PN10 / Ø 12, 15, 18, 22, 28, 35, 42, 54 / WICU, KME / SANCO, Wieland-Werke / SANCO, KME

| d (mm) | DN (mm) | JRG Code | GF Code | Weight (kg) | d1 (mm) | d2 (mm) | l1 (mm) | z1 (mm) |
|---|---|---|---|---|---|---|---|---|
| 16 - 12 | 10 | **4714.098** | **351 060 500** | 0.065 | 16 | 12 | 55 | 16 |
| 16 - 15 | 12 | **4714.100** | **351 060 501** | 0.075 | 16 | 15 | 62 | 21 |
| 20 - 18 | 15 | **4714.104** | **351 060 511** | 0.125 | 20 | 18 | 76 | 24 |

table continued on the next page



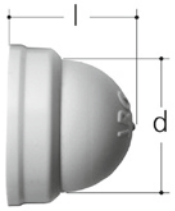

| d (mm) | DN (mm) | JRG Code | GF Code | Weight (kg) | d1 (mm) | d2 (mm) | l1 (mm) | z1 (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 - 22 | 15 | **4714.105** | **351 060 516** | 0.140 | 20 | 22 | 82 | 25 |
| 26 - 22 | 20 | **4714.106** | **351 060 521** | 0.140 | 26 | 22 | 75 | 15 |
| 32 - 28 | 25 | **4714.108** | **351 060 531** | 0.245 | 32 | 28 | 93 | 14 |
| 40 - 35 | 32 | **4714.110** | **351 060 541** | 0.380 | 40 | 35 | 107 | 16 |




## JRG Sanipex MT Transition gunmetal
## For press-fit end

- Description: for JRG Sanipex d16/20, JRG Sanipex MT Pipes
- Material: gunmetal, plastic
- Connection: cone grip union

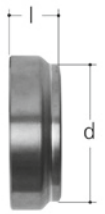
| | DN-d (mm) | JRG Code | GF Code | Weight (kg) | d (mm) | d1 (mm) | l1 (mm) | z1 (mm) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|
| * | 12 - 16 | **4716.098** | **351 616 926** | 0.046 | 16 | 12 | 60 | 39 | 16 |
| | 15 - 16 | **4716.100** | **351 616 924** | 0.046 | 16 | 15 | 65 | 45 | 16 |
| | 18 - 16 | **4716.101** | **351 616 925** | 0.052 | 16 | 18 | 65 | 45 | 18 |
| | 18 - 20 | **4716.104** | **351 620 941** | 0.068 | 20 | 18 | 74 | 48 | 20 |
| | 22 - 20 | **4716.105** | **351 620 942** | 0.081 | 20 | 22 | 75 | 49 | 22 |
| | 22 - 26 | **4716.106** | **351 626 941** | 0.097 | 26 | 22 | 85 | 53 | 27 |
| | 28 - 26 | **4716.108** | **351 626 942** | 0.123 | 26 | 28 | 86 | 54 | 30 |




## JRG Sanipex MT Cap for cone grip unions PPSU

- Description: to JRG Sanipex MT components
- Material: PPSU
- Connection: cone grip union

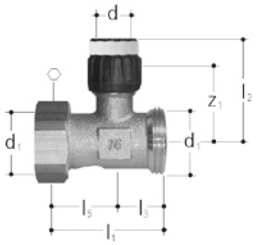
| d (mm) | JRG Code | GF Code | Weight (kg) | l (mm) |
|---|---|---|---|---|
| 16 | **4695.016** | **351 616 904** | 0.002 | 16 |
| 20 | **4695.020** | **351 620 904** | 0.003 | 19 |
| 26 | **4695.026** | **351 626 904** | 0.007 | 24 |
| 32 | **4695.032** | **351 632 904** | 0.012 | 28 |
| 40 | **4695.040** | **351 640 904** | 0.020 | 34 |




## JRG Sanipex MT Cap for cone grip unions gunmetal

- Description: to JRG Sanipex MT components
- Material: gunmetal
- Connection: cone grip union

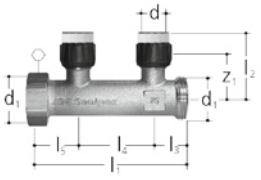
| d (mm) | JRG Code | GF Code | Weight (kg) | l (mm) |
|---|---|---|---|---|
| 50 | **4695.050** | **351 650 904** | 0.140 | 18 |
| 63 | **4695.063** | **351 663 904** | 0.275 | 22 |



## JRG Sanipex MT Manifold 1-fold gunmetal

- Description: to JRG Sanipex, JRG Sanipex MT pipes
- Material: gunmetal, plastic
- Connection: loose nut, flat gasket, male thread, cone grip union

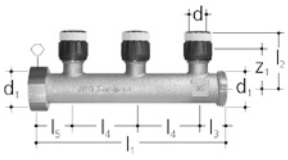
| d (mm) | Size (inch) | JRG Code | GF Code | Weight (kg) | d1 G (inch) | l1 (mm) | l2 (mm) | l3 (mm) | l5 (mm) | z1 (mm) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 1 | **4640.116** | **351 616 965** | 0.210 | 1 | 55 | 50 | 24 | 31 | 31 | 37 |
| 20 | 1 | **4640.120** | **351 620 965** | 0.210 | 1 | 55 | 60 | 24 | 31 | 38 | 37 |



## JRG Sanipex MT Manifold 2-fold gunmetal

- Description: to JRG Sanipex, JRG Sanipex MT pipes
- Material: gunmetal, plastic
- Connection: loose nut, flat gasket, male thread, cone grip union

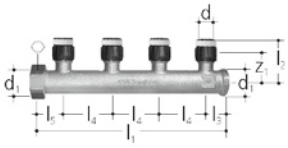
| d (mm) | Size (inch) | JRG Code | GF Code | Weight (kg) | d1 G (inch) | l1 (mm) | l2 (mm) | l3 (mm) | l4 (mm) | l5 (mm) | z1 (mm) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 1 | **4640.216** | **351 616 966** | 0.320 | 1 | 110 | 50 | 24 | 55 | 31 | 31 | 37 |
| 20 | 1 | **4640.220** | **351 620 966** | 0.465 | 1 | 110 | 60 | 24 | 55 | 31 | 38 | 37 |



## JRG Sanipex MT Manifold 3-fold gunmetal

- Description: to JRG Sanipex, JRG Sanipex MT pipes
- Material: gunmetal, plastic
- Connection: loose nut, flat gasket, male thread, cone grip union

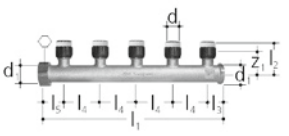
| d (mm) | Size (inch) | JRG Code | GF Code | Weight (kg) | d1 G (inch) | l1 (mm) | l2 (mm) | l3 (mm) | l4 (mm) | l5 (mm) | z1 (mm) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 1 | **4640.316** | **351 616 967** | 0.515 | 1 | 165 | 50 | 24 | 55 | 31 | 31 | 37 |
| 20 | 1 | **4640.320** | **351 620 967** | 0.490 | 1 | 165 | 60 | 24 | 55 | 31 | 38 | 37 |



## JRG Sanipex MT Manifold 4-fold gunmetal

- Description: to JRG Sanipex, JRG Sanipex MT pipes
- Material: gunmetal, plastic
- Connection: loose nut, flat gasket, male thread, cone grip union

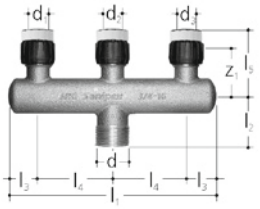
| d (mm) | Size (inch) | JRG Code | GF Code | Weight (kg) | d1 G (inch) | l1 (mm) | l2 (mm) | l3 (mm) | l4 (mm) | l5 (mm) | z1 (mm) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 1 | **4640.416** | **351 616 968** | 0.590 | 1 | 220 | 50 | 24 | 55 | 31 | 31 | 37 |



## JRG Sanipex MT Manifold 5-fold gunmetal

- Description: to JRG Sanipex, JRG Sanipex MT pipes
- Material: gunmetal, plastic
- Connection: loose nut, flat gasket, male thread, cone grip union

| d (mm) | Size (inch) | JRG Code | GF Code | Weight (kg) | d1 G (inch) | l1 (mm) | l2 (mm) | l3 (mm) | l4 (mm) | l5 (mm) | z1 (mm) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 1 | **4640.516** | **351 616 969** | 0.700 | 1 | 275 | 50 | 24 | 55 | 31 | 31 | 37 |

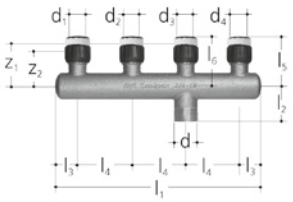



## JRG Sanipex MT Manifold concealed 3-fold gunmetal

- Description: to JRG Sanipex, JRG Sanipex MT pipes
- Material: gunmetal, plastic
- Connection: male thread, cone grip union

| d-d-d (mm) | d (mm) | Size (inch) | d R (inch) | JRG Code | GF Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 16 - 16 - 16 | 16 | ¾ | ¾ | **4645.050** | **351 616 970** | 0.430 |

| d-d-d (mm) | d1 (mm) | d2 (mm) | d3 (mm) | l1 (mm) | l2 (mm) | l3 (mm) | l4 (mm) | l5 (mm) | z1 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 16 - 16 - 16 | 16 | 16 | 16 | 155 | 37 | 23 | 55 | 50 | 31 |



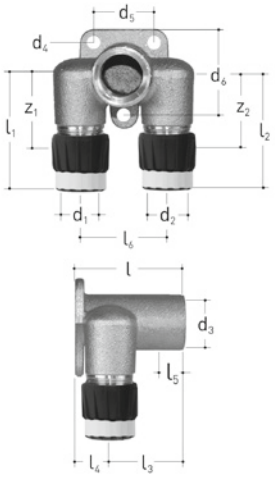
## JRG Sanipex MT Manifold concealed 4-fold gunmetal

- Description: to JRG Sanipex, JRG Sanipex MT pipes
- Material: gunmetal, plastic
- Connection: male thread, cone grip union

*as long as stock last

| d-d-d-d (mm) | d (mm) | Size (inch) | d R (inch) | JRG Code | GF Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 16 - 16 - 16 - 16 | 16 | ¾ | ¾ | **4645.100** | **351 616 971** | 0.570 |

| d-d-d-d (mm) | d1 (mm) | d2 (mm) | d3 (mm) | d4 (mm) | l1 (mm) | l2 (mm) | l3 (mm) | l4 (mm) | l5 (mm) | l6 (mm) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 - 16 - 16 - 16 | 16 | 16 | 16 | 16 | 210 | 37 | 23 | 55 | 50 | 50 | 31 | 31 |



## JRG Sanipex MT Fitting connector double gunmetal

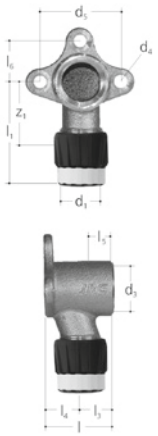
- Description: to JRG Sanipex, JRG Sanipex MT pipes
- Material: gunmetal, plastic
- Connection: female thread, cone grip union
- Suitable to: 5409.011, 5409.012

*as long as stock last

| | d-d (mm) | GN (inch) | JRG Code | GF Code | Weight (kg) |
|---|---|---|---|---|---|
| | 16 - 16 | ½ | **4611.150** | **351 616 945** | 0.270 |
| | 20 - 16 | ½ | **4611.160** | **351 620 949** | 0.325 |
| | 20 - 20 | ½ | **4611.170** | **351 620 948** | 0.290 |
| | 16 - 16 | ½ | **4611.180** | **351 616 946** | 0.310 |

| | d-d (mm) | GN (inch) | d1 (mm) | d2 (mm) | d3 Rp (inch) | d4 (mm) | d5 (mm) | d6 (mm) | l (mm) | l1 (mm) | l2 (mm) | l3 (mm) | l4 (mm) | l5 (mm) | l6 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16 - 16 | ½ | 16 | 16 | ½ | 7 | 28 | 34 | 50 | 52 | 52 | 35 | 17 | 25 | 40 |
| | 20 - 16 | ½ | 16 | 20 | ½ | 7 | 28 | 34 | 50 | 55 | 62 | 62 | 17 | 25 | 44 |
| | 20 - 20 | ½ | 20 | 20 | ½ | 7 | 28 | 34 | 50 | 62 | 62 | 37 | 17 | 25 | 50 |
| | 16 - 16 | ½ | 16 | 16 | ½ | 7 | 28 | 34 | 80 | 52 | 52 | 63 | 17 | 43 | 40 |

| | d-d (mm) | GN (inch) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|
| | 16 - 16 | ½ | 34 | 34 |
| | 20 - 16 | ½ | 37 | 39 |
| | 20 - 20 | ½ | 39 | 39 |
| | 16 - 16 | ½ | 34 | 34 |



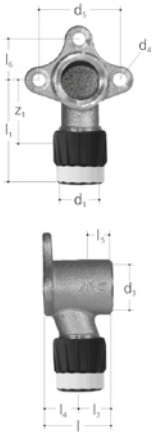
## JRG Sanipex MT Fitting connector single gunmetal

- Description: to JRG Sanipex, JRG Sanipex MT pipes
- Material: gunmetal, plastic
- Connection: female thread, cone grip union
- Suitable for: 5409.010, 5409.012, 4610.090

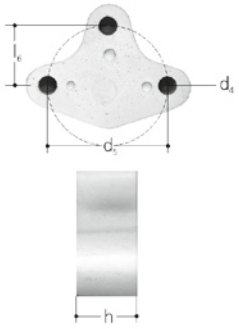
*as long as stock last

| | d (mm) | GN (inch) | JRG Code | GF Code | Weight (kg) |
|---|---|---|---|---|---|
| | 16 | ½ | **4610.135** | **351 616 993** | 0.129 |
| | 16 | ½ | **4610.150** | **351 616 908** | 0.175 |
| | 16 | ½ | **4610.180** | **351 616 944** | 0.222 |
| | 20 | ½ | **4610.235** | **351 620 990** | 0.140 |
| | 26 | ¾ | **4610.450** | **351 626 992** | 0.210 |

table continued on the next page



| d (mm) | GN (inch) | d1 (mm) | d3 Rp (inch) | d4 (mm) | d5 (mm) | l (mm) | l1 (mm) | l3 (mm) | l4 (mm) | l5 (mm) | l6 (mm) | z1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | ½ | 16 | ½ | 7 | 40 | 35 | 49 | 17 | 17 | 15 | 20 | 31 |
| 16 | ½ | 16 | ½ | 7 | 40 | 50 | 52 | 33 | 17 | 15 | 20 | 34 |
| 16 | ½ | 16 | ½ | 7 | 40 | 80 | 52 | 63 | 17 | 43 | 20 | 34 |
| 20 | ½ | 20 | ½ | 7 | 40 | 35 | 54 | 16 | 18 | 15 | 20 | 30 |
| 26 | ¾ | 26 | ¾ | 7 | 40 | 50 | 62 | 28 | 22 | 17 | 20 | 31 |



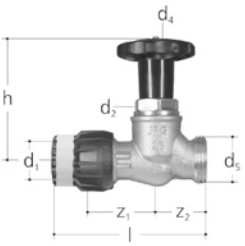
### Distance piece plastic

- Description: for fitting connector
- Material: plastic

For iFIT, INSTAFLEX, JRG Sanipex, JRG Sanipex MT

| h (mm) | JRG Code | GF Code | Weight (kg) | d4 (mm) | d5 (mm) | l6 (mm) |
|---|---|---|---|---|---|---|
| 20 | **4610.090** | **351 515 002** | 0.030 | 6.4 | 40 | 20 |

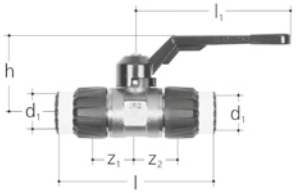
# Valves



### JRG Sanipex MT LegioStop distributor shut-off valve gunmetal

- Temperature: max. 90°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Connection: handwheel, cone grip union
- Suitable for: 5395.320, 4640, 5419-5424, 5455

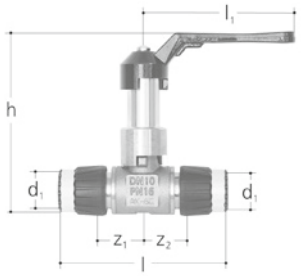
| d (mm) | DN (mm) | JRG Code | GF Code | Weight (kg) | d1 (mm) | d2 G (inch) | d4 (mm) | d5 G (inch) | h (mm) | l (mm) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 26 | 20 | **4771.010** | **351 626 975** | 0.420 | 26 | ¾ | 53 | 1 | 79 | 101 | 39 | 33 |



### JRG Sanipex MT Ball valve gunmetal

- Material: gunmetal, plastic
- Temperature: max. -20°C / +95°C (water, compressed air, vacuum)
- Connection: cone grip unions

| d (mm) | DN (mm) | JRG Code | GF Code | Weight (kg) | d1 (mm) | h (mm) | l (mm) | l1 (mm) | z1 (mm) | z2 (mm) | PN (bar) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 12 | **6041.016** | **351 616 310** | 0.230 | 16 | 45 | 94 | 84 | 28 | 28 | 10 |
| 20 | 15 | **6041.020** | **351 620 310** | 0.308 | 20 | 49 | 109 | 84 | 31 | 31 | 10 |
| 26 | 20 | **6041.026** | **351 626 310** | 0.543 | 26 | 63 | 131 | 125 | 37 | 37 | 10 |
| 32 | 25 | **6041.032** | **351 632 310** | 0.933 | 32 | 71 | 158 | 125 | 42 | 42 | 10 |
| 40 | 32 | **6041.040** | **351 640 310** | 1.547 | 40 | 75 | 186 | 125 | 49 | 49 | 10 |




## JRG Sanipex MT Ball valve gunmetal
## With spindle extension

- Material: gunmetal, stainless steel, PPSU
- Temperature: max. -20°C / +95°C (water, compressed air, vacuum)
- Connection: cone grip unions

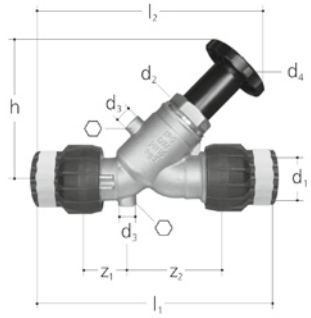
| d (mm) | DN (mm) | JRG Code | GF Code | Weight (kg) | d1 (mm) | h (mm) | l (mm) | l1 (mm) | PN (bar) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 12 | **6041.116** | **351 616 330** | 0.264 | 16 | 99 | 130 | 84 | 10 | 28 | 28 |
| 20 | 15 | **6041.120** | **351 620 330** | 0.342 | 20 | 106 | 109 | 84 | 10 | 31 | 31 |
| 26 | 20 | **6041.126** | **351 626 330** | 0.593 | 26 | 125 | 131 | 125 | 10 | 37 | 37 |
| 32 | 25 | **6041.132** | **351 632 330** | 0.983 | 32 | 137 | 158 | 125 | 10 | 42 | 42 |
| 40 | 32 | **6041.140** | **351 640 330** | 1.597 | 40 | 148 | 186 | 125 | 10 | 49 | 49 |




## JRG Sanipex MT Spindle extension aluminium

- Description: to 6041
- Material: aluminium

| d (mm) | DN (mm) | JRG Code | GF Code | Weight (kg) | h (mm) |
|---|---|---|---|---|---|
| 16 - 20 | 10 - 15 | **6041.001** | **351 616 322** | 0.158 | 59 |
| 26 - 40 | 25 - 32 | **6041.002** | **351 626 322** | 0.268 | 63 |

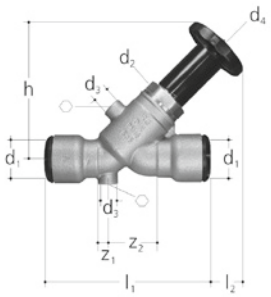



## JRG Sanipex MT LegioStop Y-type valve gunmetal

- Description: free of water pockets and maintenance free top, non rising handwheel with optical position indicator, valve seat and valve stem made of stainless steel
- Temperature: max. 90°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Connection: JRG Sanipex MT

| d (mm) | DN (mm) | JRG Code | GF Code | Weight (kg) |
|---|---|---|---|---|
| 16 | 12 | **5222.016** | **350 895 732** | 0.360 |
| 20 | 15 | **5222.020** | **350 895 733** | 0.390 |
| 26 | 20 | **5222.026** | **350 895 734** | 0.590 |
| 32 | 25 | **5222.032** | **350 895 735** | 0.950 |
| 40 | 32 | **5222.040** | **350 895 736** | 1.360 |
| 50 | 40 | **5222.050** | **351 650 970** | 2.160 |
| 63 | 50 | **5222.063** | **351 663 970** | 3.380 |

| d (mm) | DN (mm) | d1 (mm) | d2 G (inch) | d3 Rp (inch) | d4 (mm) | h (mm) | l1 (mm) | l2 (mm) | z1 (mm) | z2 (mm) | PN (bar) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 12 | 16 | ½ | ¼ | 53 | 87 | 115 | 133 | 28 | 50 | 10 | 6 |
| 20 | 15 | 20 | ½ | ¼ | 53 | 87 | 122 | 137 | 27 | 51 | 10 | 6 |
| 26 | 20 | 26 | ¾ | ¼ | 53 | 105 | 148 | 160 | 27 | 63 | 10 | 6 |
| 32 | 25 | 32 | 1 | ¼ | 60 | 117 | 178 | 182 | 28 | 75 | 10 | 6 |
| 40 | 32 | 40 | 1 ¼ | ¼ | 70 | 130 | 212 | 212 | 37 | 92 | 10 | 6 |
| 50 | 40 | 50 | 1 ½ | ¼ | 90 | 175 | 256 | 245 | 46 | 108 | 10 | 6 |
| 63 | 50 | 63 | 2 | ¼ | 90 | 196 | 315 | 287 | 55 | 134 | 10 | 6 |




### JRG LegioStop Y-type valve sudoFIT gunmetal

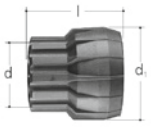
- Description: free of water pockets and maintenance free top, non rising handwheel with optical position indicator, valve seat and valve stem made of stainless steel
- Temperature: max. 90°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Connection: push-in system sudoFIT

Approved for the following pipe types and systems:(For other approvals, please contact our technical customer service).
**Stainless steel pipes** / PN16 / Ø 15, 18, 22, 28, 35, 42, 54 / Mapress / Optipress, Sanpress /inoxPRES
**Copper pipes** / PN10 / Ø 12, 15, 18, 22, 28, 35, 42, 54 / WICU, KME / SANCO, Wieland-Werke / SANCO, KME

| d (mm) | DN (mm) | JRG Code | GF Code | Weight (kg) |
|---|---|---|---|---|
| 15 | 12 | **5225.015** | **351 060 406** | 0.354 |
| 18 | 15 | **5225.018** | **351 060 416** | 0.401 |
| 22 | 20 | **5225.022** | **351 060 426** | 0.550 |
| 28 | 25 | **5225.028** | **351 060 436** | 0.930 |
| 35 | 32 | **5225.035** | **351 060 446** | 1.370 |
| 42 | 40 | **5225.042** | **351 060 676** | 2.018 |
| 54 | 50 | **5225.054** | **351 060 686** | 2.990 |

| d (mm) | DN (mm) | d1 (mm) | d2 G (inch) | d3 Rp (inch) | d4 (mm) | h (mm) | l1 (mm) | l2 (mm) | z1 (mm) | z2 (mm) | ⬡ (mm) | PN (bar) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 12 | 15 | ½ | ¼ | 53 | 87 | 82 | 37 | 8 | 26 | 6 | 10/16 |
| 18 | 15 | 18 | ½ | ¼ | 53 | 87 | 98 | 27 | 8 | 31 | 6 | 10/16 |
| 22 | 20 | 22 | ¾ | ¼ | 53 | 105 | 103 | 39 | 7 | 35 | 6 | 10/16 |
| 28 | 25 | 28 | 1 | ¼ | 60 | 117 | 136 | 31 | 9 | 44 | 6 | 10/16 |
| 35 | 32 | 35 | 1 ¼ | ¼ | 70 | 130 | 164 | 26 | 11 | 57 | 6 | 10/16 |
| 42 | 40 | 42 | 1 ½ | ¼ | 90 | 148 | 191 | 27 | 11 | 62 | 6 | 10/16 |
| 54 | 50 | 54 | 2 | ¼ | 90 | 169 | 231 | 21 | 14 | 79 | 6 | 10/16 |

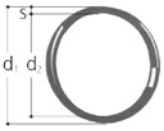
# Accessories




### JRG Sanipex MT cone grip union plastic

- Material: plastic

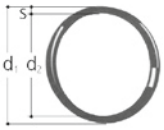
| d (mm) | GF Code | Weight (kg) | d1 (mm) | l (mm) |
|---|---|---|---|---|
| 16 | **351 616 901** | 0.006 | 27 | 25.5 |
| 20 | **351 620 901** | 0.010 | 32 | 30.5 |
| 26 | **351 626 901** | 0.025 | 42 | 39.5 |
| 32 | **351 632 901** | 0.034 | 52 | 48.0 |
| 40 | **351 640 901** | 0.070 | 64 | 59.0 |
| 50 | **351 650 901** | 0.115 | 76 | 73.0 |
| 63 | **351 663 901** | 0.220 | 95 | 92.0 |




### JRG Sanipex MT O-Ring EPDM

- Description: to JRG Sanipex MT d16 - d40
- Material: EPDM

| d (mm) | GF Code | Weight (kg) | d1 (mm) | d2 (mm) | s (mm) |
|---|---|---|---|---|---|
| 16 | **350 981 509** | 0.000 | 15 | 12 | 1.5 |
| 20 | **350 981 416** | 0.000 | 19 | 16 | 1.8 |
| 26 | **350 981 520** | 0.000 | 25 | 21 | 2.0 |
| 32 | **350 981 527** | 0.000 | 32 | 28 | 2.2 |
| 40 | **350 981 533** | 0.001 | 40 | 35 | 2.5 |

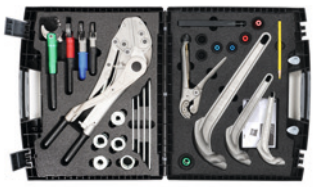



### JRG Sanipex MT O-Ring EPDM

- Description: to JRG Sanipex MT d20 - d40, 4730
- Material: EPDM

| d (mm) | GF Code | d1 (mm) | d2 (mm) | s (mm) |
|---|---|---|---|---|
| 20 | **350 981 515** | 19 | 17 | 1.3 |
| 26 | **350 981 521** | 25 | 22 | 1.6 |
| 32 | **350 981 528** | 33 | 29 | 2.0 |
| 40 | **350 981 535** | 41 | 37 | 2.4 |

# Tools



### JRG Sanipex MT Fitters toolkit plastic d16 - d32

- Material: plastic
- Consisting of: Expanding mandrel ML pipes: **4804.116** d16; **4804.120** d20, **4804.126** d26, **4804.132** d32 Expanding mandrel PEX pipes: **4804.216** d16, **4804.220** d20, **4804.225** d25 Clamping jaws ML / PEX pipes: **4805.016** d16, **4805.020** d20 Clamping jaws ML pipes: **4805.026** d26, **4805.032** d32 Clamping jaws PEX pipes: **4805.125** d25 /// **4805.000** Expanding pliers, **4806.016** Hand bending template d16, **4806.026** Hand bending template d20, **4806.026** Hand bending template d26, **4832.016** Ratchet torque wrench d16, **4832.020** Ratchet torque wrench d20, **4832.026** Ratchet torque wrench d26, **4832.032** Ratchet torque wrench d32, **4834.016** Counter key d16, **4834.020** Counter key d20, **4834.026** Counter key d26, **4834.032** Counter key d32, **4836.000** Pipe cutter d16-d40, **4837.000** Multi-purpose cutter d16+d20, **4838.000** Marking pen yellow

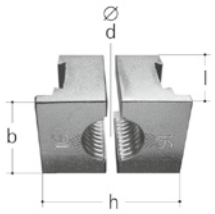
| d-d (mm) | JRG Code | GF Code | Weight (kg) | l (mm) | b (mm) | h (mm) |
|---|---|---|---|---|---|---|
| 16 - 32 | **4802.000** | **351 600 098** | 9.830 | 500 | 125 | 420 |




### JRG Sanipex MT Hand bending template aluminium

- Material: aluminium

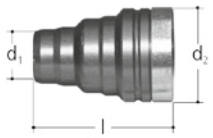
| d (mm) | JRG Code | GF Code | Weight (kg) | l (mm) |
|---|---|---|---|---|
| 16 | **4806.016** | **351 616 907** | 0.200 | 217 |
| 20 | **4806.020** | **351 620 907** | 0.320 | 270 |
| 26 | **4806.026** | **351 626 907** | 0.775 | 415 |




## JRG Sanipex MT Clamping jaw dovetail steel

- Material: steel
- Suitable for: expanding pliers
- Description: for JRG Sanipex d16/20, JRG Sanipex MT Pipes

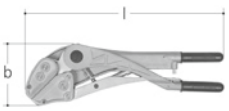
| d (mm) | JRG Code | GF Code | Weight (kg) | b (mm) | h (mm) | l (mm) |
|---|---|---|---|---|---|---|
| 16 | **4804.016** | **351 600 494** | 0.195 | 30 | 45 | 35 |
| 20 | **4804.020** | **351 600 495** | 0.160 | 30 | 45 | 35 |
| 26 | **4804.026** | **351 600 489** | 0.160 | 30 | 45 | 35 |




## JRG Sanipex MT Expansion mandrel aluminium For ML pipe

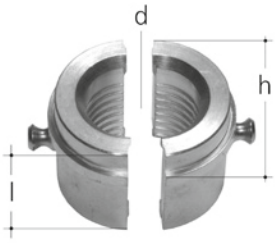
- Material: aluminium, steel

| d (mm) | JRG Code | GF Code | Weight (kg) | d1 (mm) | d2 (mm) | l (mm) |
|---|---|---|---|---|---|---|
| 16 | **4804.116** | **351 600 496** | 0.030 | 10 | 23 | 35 |
| 20 | **4804.120** | **351 600 497** | 0.032 | 14 | 23 | 34 |
| 26 | **4804.126** | **351 600 488** | 0.036 | 18 | 23 | 32 |
| 32 | **4804.132** | **351 600 547** | 0.017 | 32 | 33 | 34 |




## JRG Sanipex MT Expansion plier aluminium

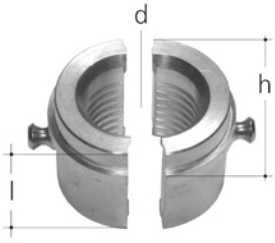
| | d (mm) | JRG Code | GF Code | Weight (kg) | b (mm) | l (mm) |
|---|---|---|---|---|---|---|
| 16-20-25-26-32 | | **4805.000** | **351 600 507** | 2.190 | 150 | 470 |




## JRG Sanipex MT Clamping jaw steel

- Description: to 4805
- Material: steel

| | d (mm) | JRG Code | GF Code | Weight (kg) | h (mm) | l (mm) |
|---|---|---|---|---|---|---|
| PE-X & ML Pipes | 16 | **4805.016** | **351 600 560** | 0.320 | 46 | 35 |
| PE-X & ML Pipes | 20 | **4805.020** | **351 600 569** | 0.290 | 46 | 35 |
| PE-X & ML Pipes | 26 | **4805.026** | **351 600 573** | 0.250 | 46 | 35 |
| ML Pipes | 32 | **4805.032** | **351 600 575** | 0.085 | 46 | 35 |




## JRG Sanipex MT Clamping jaw steel For PE-X pipe

- Description: to 4805
- Material: steel

| d (mm) | JRG Code | GF Code | Weight (kg) | h (mm) | l (mm) |
|---|---|---|---|---|---|
| 25 | **4805.125** | **351 600 571** | 0.255 | 46 | 35 |



### JRG Sanipex MT Battery toolkit plastic d16 - d40

- Material: plastic
- Consisting of: **4809.000** Battery tool MAPLSON0V, **4809.005** Makita charger, **4809.010** Makita battery, **4809.116** Expansion head d16, **4809.120** Expansion head d20, **4809.126** Expansion head d26, **4809.132** Expansion head d32, **4809.140** Expansion head d40, **4832.016** Ratchet torque wrench d16, **4832.020** Ratchet torque wrench d20, **4832.026** Ratchettorque wrench d26, **4832.032** Ratchet torque wrench d32, **4832.040** Ratchet torque wrench d40, **4834.016** Counter spanner d16, **4834.020** Counter spanner d20, **4834.026** Counter spanner d26, **4834.032** Counter spanner d32, **4834.040** Counter spanner d40, **4837.000** Multi-purpose cutter d16/d20, **4836.000** Pipe cutter d16-d40, **4838.000** Marking pen

| d (mm) | JRG Code | GF Code | Weight (kg) | l (mm) | b (mm) | h (mm) |
|---|---|---|---|---|---|---|
| 16 - 40 | **4808.000** | **351 600 908** | 16.000 | 575 | 206 | 472 |



### JRG Sanipex MT Batterytool aluminium

- Material: aluminium, plastic

| d (mm) | JRG Code | GF Code | Weight (kg) | l (mm) | b (mm) | h (mm) |
|---|---|---|---|---|---|---|
| 16 - 40 | **4809.000** | **351 600 809** | 3.080 | 320 | 75 | 150 |



### JRG Sanipex MT Expansion head aluminium For ML pipe

- Material: aluminium, steel, plastic

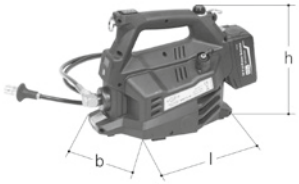
| d (mm) | JRG Code | GF Code | Weight (kg) | l (mm) | b (mm) | h (mm) |
|---|---|---|---|---|---|---|
| 16 | **4809.116** | **351 600 804** | 1.200 | 137 | 95 | 121 |
| 20 | **4809.120** | **351 600 805** | 1.200 | 137 | 95 | 121 |
| 26 | **4809.126** | **351 600 806** | 1.200 | 137 | 95 | 121 |
| 32 | **4809.132** | **351 600 807** | 1.200 | 137 | 95 | 121 |
| 40 | **4809.140** | **351 600 808** | 1.400 | 174 | 108 | 124 |



### JRG Sanipex MT Bending toolkit plastic d16+d20

- Material: plastic

| d (mm) | JRG Code | GF Code | Weight (kg) | l (mm) | b (mm) | h (mm) |
|---|---|---|---|---|---|---|
| 16 / 20 | **4807.100** | **351 600 092** | 2.790 | 390 | 102 | 310 |




### JRG Sanipex MT Battery hydraulic tool plastic

- Description: to expanding- and bending tool d16 - 63 / 230 V, 650 Watt, 50 Hz
- Consisting of: Hydraulic unit, battery, charger, bag

| Plug | JRG Code | GF Code | Weight (kg) | l (mm) | b (mm) | h (mm) |
|---|---|---|---|---|---|---|
| EU + CH | **4812.000** | **351 600 912** | 9.700 | 290 | 186 | 236 |
| USA + CAN | **4812.050** | **351 600 914** | 9.700 | 290 | 186 | 236 |



### JRG Sanipex MT Hydraulic toolkit plastic d26 - d40

- Material: plastic
- Consisting of: **4828.001** Fitter's toolkit, **4830.026** Expanding unit d26, **4832.032** Expanding unit d32, **4830.040** Expanding unit d40, **4832.026** Ratchet torque wrench d26, **4832.032** Ratchet torque wrench d32, **4832.040** Ratchet torque wrench d40, **4834.026** Counter key d26, **4834.032** Counter key d32, **4834.040** Counter key d40, **4836.000** Pipe cutter

| d (mm) | JRG Code | GF Code | Weight (kg) | l (mm) | b (mm) | h (mm) |
|---|---|---|---|---|---|---|
| 26 - 40 | **4815.100** | **351 600 094** | 15.610 | 575 | 206 | 472 |



### JRG Sanipex MT Hydraulic toolkit plastic d32 - d40

- Material: plastic
- Consisting of: **4828.001** Fitter's toolkit, **4832.032** Expanding unit d32, **4830.040** Expanding unit d40, **4832.032** Ratchet torque wrench d32, **4832.040** Ratchet torque wrench d40, **4834.032** Counter key d32, **4834.040** Counter key d40, **4836.000** Pipe cutter

| d (mm) | JRG Code | GF Code | Weight (kg) | l (mm) | b (mm) | h (mm) |
|---|---|---|---|---|---|---|
| 32 - 40 | **4815.150** | **351 600 086** | 12.770 | 575 | 206 | 472 |



### JRG Sanipex MT Hydraulic toolkit plastic d50 + d63

- Material: plastic
- Consisting of: **4831.000** Operating cylinder, **4831.050** Clamp unit d50, **4831.063** Clamp unit d63, **4831.350** Expanding mandrel d50, **4831.363** Expanding mandrel d63, **4832.050** Ratchet torque wrench d50, **4832.063** Ratchet torque wrench d63, **4834.050** Counter key d50, **4834.063** Counter key d63, **4836.100** Pipe cutter d50+63

| d (mm) | JRG Code | GF Code | Weight (kg) | l (mm) | b (mm) | h (mm) |
|---|---|---|---|---|---|---|
| 50 - 63 | **4820.100** | **351 600 007** | 14.550 | 575 | 206 | 472 |




### JRG Sanipex MT Fitters toolkit empty plastic d16 - d32

- Description: to 4802
- Material: plastic

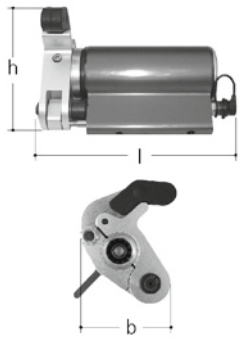
| d-d-d (mm) | JRG Code | GF Code | Weight (kg) | l (mm) | b (mm) | h (mm) |
|---|---|---|---|---|---|---|
| 16 - 32 | **4828.005** | **351 600 006** | 2.200 | 500 | 125 | 420 |




### JRG Sanipex MT Hydraulic toolkit empty plastic d16 - d40

- Description: to 4815
- Material: plastic

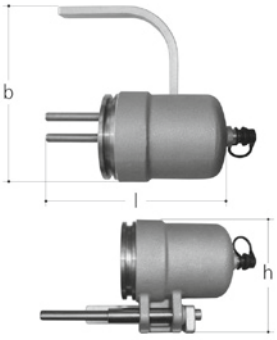
| d (mm) | JRG Code | GF Code | Weight (kg) | b (mm) | b1 (mm) | l (mm) |
|---|---|---|---|---|---|---|
| 16 - 40 | **4828.001** | **351 600 002** | 4.100 | 423 | 170 | 574 |




### JRG Sanipex MT Expansion unit aluminium For ML pipe

- Description: to 4812
- Material: aluminium, steel, plastic

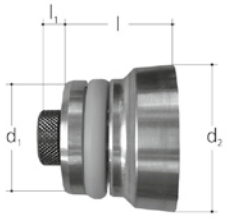
| d (mm) | JRG Code | GF Code | Weight (kg) | b (mm) | l (mm) |
|---|---|---|---|---|---|
| 26 | **4830.026** | **351 626 008** | 2.250 | 99 | 196 |
| 32 | **4830.032** | **351 632 008** | 2.550 | 99 | 201 |
| 40 | **4830.040** | **351 640 008** | 3.650 | 107 | 222 |




### JRG Sanipex MT Operating cylinder aluminium For ML pipe

- Description: to 4831.050 / .063
- Material: aluminium, steel

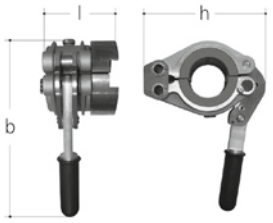
| d (mm) | JRG Code | GF Code | Weight (kg) | b (mm) | h (mm) | l (mm) |
|---|---|---|---|---|---|---|
| 50 - 63 | **4831.000** | **351 600 628** | 2.370 | 201 | 130 | 244 |




### JRG Sanipex MT Expansion mandrel aluminium For ML pipe

- Description: to 4831.000
- Material: aluminium

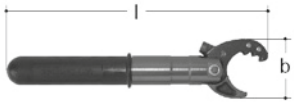
| d (mm) | JRG Code | GF Code | Weight (kg) | d1 (mm) | d2 (mm) | l (mm) | l1 (mm) |
|---|---|---|---|---|---|---|---|
| 50 | **4831.350** | **351 650 108** | 0.100 | 40 | 52 | 40 | 11 |
| 63 | **4831.363** | **351 663 108** | 0.200 | 52 | 65 | 37 | 11 |




### JRG Sanipex MT Clamp unit aluminium For ML pipe

- Description: to 4831.000
- Material: aluminium, steel

| d (mm) | JRG Code | GF Code | Weight (kg) | b (mm) | h (mm) | l (mm) |
|---|---|---|---|---|---|---|
| 50 | **4831.050** | **351 650 131** | 2.930 | 243 | 160 | 87 |
| 63 | **4831.063** | **351 663 131** | 2.200 | 243 | 160 | 87 |




### JRG Sanipex MT Ratchet torque wrench aluminium d16-d40

- Material: aluminium, steel

| d (mm) | JRG Code | GF Code | Weight (kg) | b (mm) | l (mm) |
|---|---|---|---|---|---|
| 16 | **4832.016** | **351 616 220** | 0.135 | 34 | 157 |
| 20 | **4832.020** | **351 620 220** | 0.100 | 41 | 174 |
| 26 | **4832.026** | **351 626 009** | 0.350 | 51 | 224 |
| 32 | **4832.032** | **351 632 009** | 0.450 | 61 | 271 |
| 40 | **4832.040** | **351 640 009** | 0.660 | 76 | 326 |




### JRG Sanipex MT Ratchet torque wrench aluminium d50 + d63

- Material: aluminium, steel

| d (mm) | JRG Code | GF Code | Weight (kg) | b (mm) | l (mm) |
|---|---|---|---|---|---|
| 50 | **4832.050** | **351 650 009** | 0.500 | 102 | 379 |
| 63 | **4832.063** | **351 663 009** | 0.850 | 130 | 442 |




### JRG Sanipex MT Counter key steel d16 - d40

- Material: steel

| d (mm) | JRG Code | GF Code | Weight (kg) | b (mm) | l (mm) |
|---|---|---|---|---|---|
| 16 | **4834.016** | **351 616 010** | 0.050 | 27 | 157 |
| 20 | **4834.020** | **351 620 010** | 0.100 | 33 | 174 |
| 26 | **4834.026** | **351 626 010** | 0.200 | 42 | 224 |
| 32 | **4834.032** | **351 632 010** | 0.300 | 52 | 271 |
| 40 | **4834.040** | **351 640 010** | 0.550 | 65 | 326 |
| 50 | **4834.050** | **351 650 210** | 0.300 | 102 | 405 |
| 63 | **4834.063** | **351 663 210** | 0.500 | 127 | 453 |



### JRG Sanipex MT Pipe cutter aluminium d16 - d40

- Material: aluminium
- Consisting of: cutting wheel (355578110)

| d (mm) | JRG Code | GF Code | Weight (kg) | l (mm) |
|---|---|---|---|---|
| 16 - 40 | **4836.000** | **351 600 310** | 0.640 | 251 |



### JRG Sanipex MT Pipe cutter aluminium d50 - d63

- Material: aluminium, steel
- Consisting of: cutting wheel (351650851)

| d (mm) | JRG Code | GF Code | Weight (kg) | l (mm) |
|---|---|---|---|---|
| 50 - 63 | **4836.050** | **351 650 852** | 0.950 | 240 |

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### Marking pen wood

- Material: wood
- Colour: yellow

For iFIT, INSTAFLEX, JRG Sanipex, JRG Sanipex MT

| JRG Code | GF Code | Weight (kg) |
|---|---|---|
| **4838.000** | **351 600 027** | 0.008 |

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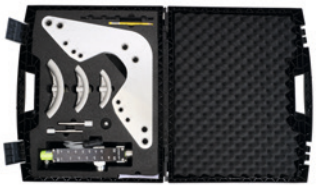



### JRG Sanipex MT Hydraulic oil

- Description: Spare bottle 0.5l to 4810/4812

| JRG Code | GF Code | Weight (kg) | l (mm) | b (mm) | h (mm) |
|---|---|---|---|---|---|
| **4839.000** | **351 600 072** | 1.100 | 230 | 110 | 60 |

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### JRG Sanipex MT Bending toolkit plastic d26 - d40

- Material: plastic, chromed
- Consisting of: 4853.000 hydraulic cylinder, 4854.000 baseplate, 4855.026/.032/.040 bending templates, bending rolls d26-40, 4838.000 marking pen yellow, plug-in bending scale, adapter nippel for bending templates

| d (mm) | JRG Code | GF Code | Weight (kg) | l (mm) | b (mm) | h (mm) |
|---|---|---|---|---|---|---|
| 26 - 40 | **4851.050** | **351 600 004** | 15.880 | 665 | 250 | 562 |

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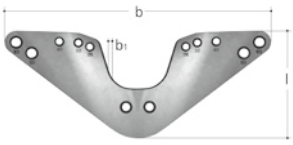


### JRG Sanipex MT Bending toolkit plastic d50 + d63

- Material: plastic, chromed
- Consisting of: 4854.050 bending templates d50, 4854.063 bending templates d63, bending rolls d50+63

| d (mm) | JRG Code | GF Code | Weight (kg) | l (mm) | b (mm) | h (mm) |
|---|---|---|---|---|---|---|
| 50 + 63 | **4851.100** | **352 920 372** | 7.800 | 665 | 250 | 562 |

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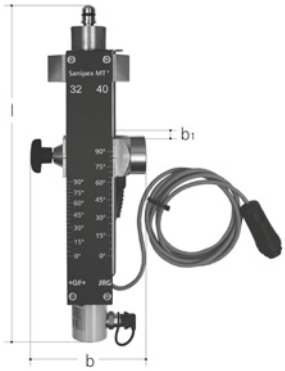



### JRG Sanipex MT Bending base plate aluminium

- Material: aluminium

| d (mm) | JRG Code | GF Code | Weight (kg) | b (mm) | b1 (mm) | l (mm) |
|---|---|---|---|---|---|---|
| 26 - 63 | **4854.000** | **352 920 911** | 5.000 | 628 | 30 | 273 |

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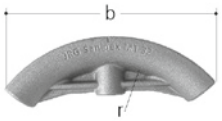



### JRG Sanipex MT Hydraulic bending cylinder aluminium

- Material: aluminium
- With scale to adjust bending angle
- Suitable to: 4854.000 base plate, 4855 bending templates d26 - d63

| d (mm) | JRG Code | GF Code | Weight (kg) | b (mm) | b1 (mm) | l (mm) |
|---|---|---|---|---|---|---|
| 26 - 63 | **4853.000** | **352 920 811** | 4.130 | 130 | 100 | 360 |

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### JRG Sanipex MT Bending template aluminium

- Material: aluminium
- Suitable to: 4810 hydraulic unit, 4852 / 4853 bending tools

| d (mm) | JRG Code | GF Code | Weight (kg) | b (mm) | r (mm) |
|---|---|---|---|---|---|
| 20 | **4855.020** | **351 620 911** | 0.100 | 112 | 60 |
| 26 | **4855.026** | **351 626 911** | 0.165 | 146 | 78 |
| 32 | **4855.032** | **351 632 911** | 0.260 | 180 | 96 |
| 40 | **4855.040** | **351 640 911** | 0.400 | 225 | 120 |
| 50 | **4855.050** | **352 950 911** | 0.990 | 332 | 175 |
| 63 | **4855.063** | **352 963 911** | 1.310 | 364 | 189 |

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# JRG Valves



## Your benefits

+ **Free of water pockets**
+ **Corrosion resistant gunmetal**
+ **Extensive range of valve types**
+ **Excellent long time performance**
+ **Hygienic design**

## Technical data

**Materials**
Gunmetal, EPDM gaskets

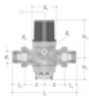
**Dimensions range**
DN15 – DN100

**Jointing technology**
Threads, flanges and direct system connections

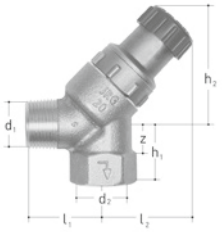
**Operating pressure**
Up to 25 bar

**Operating temperature**
0°C to 90°C

The value above listed are to be considered for water, in case of use chemical addition it is always recommended to contact GF specialist to an individual and more detailed assessment.

| Table of contents | | Page |
|---|---|---|
|  | Safety valves | 110 |
|  | Pressure reducing valves | 110 |
|  | Non-return valves | 113 |
|  | Accessories | 116 |
|  | Spare parts | 116 |

# Safety valves



### JRGARANT safety valve gunmetal

- Material: gunmetal
- Factory setting: 600 kPa (6 bar)
- Connection: inlet male thread, outlet female thread

| DN (mm) | GN (inch) | Size (inch) | JRG Code | GF Code | Weight (kg) |
|---|---|---|---|---|---|
| 15 | ½ | ½ | **1025.240** | **350 599 481** | 0.325 |
| 20 | ¾ | ¾ | **1025.320** | **350 599 581** | 0.370 |
| 25 | 1 | 1 | **1025.400** | **350 599 610** | 0.620 |

| DN (mm) | d1 R (inch) | d2 Rp (inch) | h1 (mm) | h2 (mm) | l1 (mm) | l2 (mm) | PN (bar) | Temperature (°C) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 15 | ½ | ½ | 28 | 60 | 38 | 47 | 10 | 90 | 15 |
| 20 | ¾ | ¾ | 32 | 62 | 41 | 48 | 10 | 90 | 17 |
| 25 | 1 | 1 | 39 | 65 | 46 | 49 | 10 | 90 | 22 |



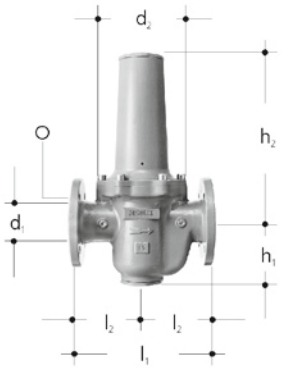
### JRGARANT safety valve gunmetal

- Material: gunmetal
- Factory setting: available between 100 - 1000 kPa (1 - 10 bar)
- Connection: inlet male thread, outlet female thread

| DN (mm) | GN (inch) | Size (inch) | JRG Code | GF Code | Weight (kg) |
|---|---|---|---|---|---|
| 15 | ½ | ½ | **1028.240** | **350 599 944** | 0.400 |
| 20 | ¾ | ¾ | **1028.320** | **350 599 945** | 0.684 |
| 25 | 1 | 1 | **1028.400** | **350 599 946** | 0.684 |

| DN (mm) | GN (inch) | d1 R (inch) | d2 Rp (inch) | h1 (mm) | h2 (mm) | l1 (mm) | l2 (mm) | PN (bar) | Temperature (°C) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 15 | ½ | ½ | ½ | 28 | 81 | 38 | 38 | 10 | 90 | 15 |
| 20 | ¾ | ¾ | ¾ | 32 | 81 | 41 | 68 | 10 | 90 | 17 |
| 25 | 1 | 1 | 1 | 39 | 85 | 46 | 69 | 10 | 90 | 22 |

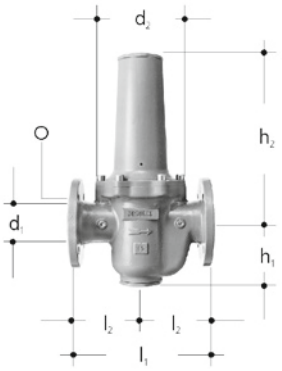
# Pressure reducing valves



### JRGURED pressure reducing valve gunmetal

- Temperature: max. 70°C
- Material: gunmetal, stainless steel, EPDM
- Factory setting: 400 kPa (4 bar)
- Secondary pressure: 150 - 600 kPa (1.5 - 6 bar)
- *Special version on request: 650 - 1000 kPa (6.5 - 10 bar)
- Connection: flange, manometer

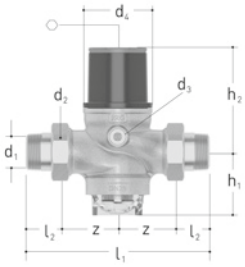
| DN (mm) | JRG Code | GF Code | Weight (kg) | d1 (mm) | d2 (mm) | h1 (mm) | h2 (mm) | l1 (mm) | l2 (mm) | PN (bar) | ○ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 65 | **1140.065** | **350 542 301** | 32.000 | 65 | 187 | 128 | 340 | 290 | 145 | 16 | 4 |
| 80 | **1140.080** | **350 542 401** | 40.000 | 80 | 217 | 144 | 405 | 310 | 155 | 16 | 8 |
| 100 | **1140.100** | **350 542 501** | 55.000 | 100 | 257 | 166 | 465 | 350 | 175 | 16 | 8 |




## JRGURED pressure reducing valve gunmetal

- Temperature: max. 70°C
- Material: gunmetal, stainless steel, EPDM
- Factory setting: 400 kPa (4 bar)
- Secondary pressure: 150 - 600 kPa (1.5 - 6 bar)
- *Special version on request: 650 - 1000 kPa (6.5 - 10 bar)
- Connection: flange, manometer

| DN (mm) | JRG Code | GF Code | Weight (kg) | d1 (mm) | d2 (mm) | h1 (mm) | h2 (mm) | l1 (mm) | l2 (mm) | PN (bar) | ⬡ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 65 | **1140.065** | **350 542 301** | 32.000 | 65 | 187 | 128 | 340 | 290 | 145 | 16 | 4 |
| 80 | **1140.080** | **350 542 401** | 40.000 | 80 | 217 | 144 | 405 | 310 | 155 | 16 | 8 |
| 100 | **1140.100** | **350 542 501** | 55.000 | 100 | 257 | 166 | 465 | 350 | 175 | 16 | 8 |

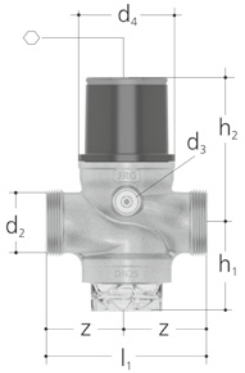



## JRGURED pressure reducing valve gunmetal - new

- Temperature: max. 30°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Factory setting: 400 kPa (4 bar)
- Secondary pressure: 200 - 600 kPa (2 - 6 bar)
- Connection: manometer
- Consisting of: unions

| DN (mm) | GN (inch) | Size (inch) | JRG Code | GF Code | Weight (kg) |
|---|---|---|---|---|---|
| 15 | ½ | ½ | **1300.240** | **350 740 131** | 0.700 |
| 20 | ¾ | ¾ | **1300.320** | **350 740 231** | 0.900 |
| 25 | 1 | 1 | **1300.400** | **350 740 331** | 1.600 |
| 32 | 1 ¼ | 1 ¼ | **1300.480** | **350 740 431** | 2.400 |
| 40 | 1 ½ | 1 ½ | **1300.560** | **350 740 531** | 4.050 |
| 50 | 2 | 2 | **1300.640** | **350 740 631** | 6.425 |
| 65 | 2 ½ | 2 ½ | **1300.720** | **350 740 731** | 6.951 |

| DN (mm) | GN (inch) | d1 R (inch) | d2 G (inch) | d3 Rp (inch) | d4 (mm) | h1 (mm) | h2 (mm) | l1 (mm) | l2 (mm) | z (mm) | ⬡ (mm) | PN (bar) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | ½ | ½ | ¾ | ⅛ | 53 | 34 | 79 | 130 | 25 | 40 | 5 | 25 |
| 20 | ¾ | ¾ | 1 | ⅛ | 53 | 42 | 81 | 142 | 29 | 43 | 5 | 25 |
| 25 | 1 | 1 | 1 ¼ | ¼ | 60 | 55 | 90 | 167 | 34 | 50 | 5 | 25 |
| 32 | 1 ¼ | 1 ¼ | 1 ½ | ¼ | 72 | 67 | 109 | 196 | 38 | 60 | 6 | 25 |
| 40 | 1 ½ | 1 ½ | 1 ¾ | ¼ | 80 | 80 | 122 | 222 | 39 | 73 | 6 | 25 |
| 50 | 2 | 2 | 2 ⅜ | ¼ | 96 | 98 | 151 | 268 | 47 | 88 | 8 | 25 |
| 65 | 2 ½ | 2 ½ | 3 | ¼ | 96 | 98 | 151 | 292 | 56 | 90 | 8 | 25 |



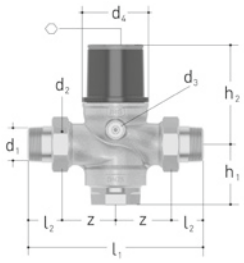

## JRGURED pressure reducing valve gunmetal - new

- Temperature: max. 30°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Factory setting: 400 kPa (4 bar)
- Secondary pressure: 200 - 600 kPa (2 - 6 bar)
- Connection: manometer

| DN (mm) | GN (inch) | Size (inch) | JRG Code | GF Code | Weight (kg) |
|---|---|---|---|---|---|
| 15 | ½ | ½ | **1303.015** | **350 740 101** | 0.600 |
| 20 | ¾ | ¾ | **1303.020** | **350 740 201** | 0.700 |
| 25 | 1 | 1 | **1303.025** | **350 740 301** | 1.300 |
| 32 | 1 ¼ | 1 ¼ | **1303.032** | **350 740 401** | 1.800 |
| 40 | 1 ½ | 1 ½ | **1303.040** | **350 740 501** | 3.400 |
| 50 | 2 | 2 | **1303.050** | **350 740 601** | 4.900 |
| 65 | 2 ½ | 2 ½ | **1303.065** | **350 740 701** | 5.015 |

table continued on the next page

| DN (mm) | GN (inch) | d2 G (inch) | d3 Rp (inch) | d4 (mm) | h1 (mm) | h2 (mm) | l1 (mm) | z (mm) | ⬡ (mm) | PN (bar) |
|---|---|---|---|---|---|---|---|---|---|---|
| 15 | ½ | ¾ | ⅛ | 53 | 34 | 79 | 80 | 40 | 5 | 25 |
| 20 | ¾ | 1 | ⅛ | 53 | 42 | 81 | 85 | 43 | 5 | 25 |
| 25 | 1 | 1 ¼ | ¼ | 60 | 55 | 90 | 100 | 50 | 5 | 25 |
| 32 | 1 ¼ | 1 ½ | ¼ | 72 | 67 | 109 | 120 | 60 | 6 | 25 |
| 40 | 1 ½ | 1 ¾ | ¼ | 80 | 80 | 122 | 145 | 73 | 6 | 25 |
| 50 | 2 | 2 ⅜ | ¼ | 96 | 98 | 151 | 175 | 88 | 8 | 25 |
| 65 | 2 ½ | 3 | ¼ | 96 | 98 | 151 | 180 | 90 | 8 | 25 |

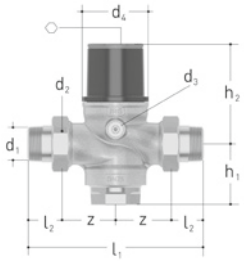



## JRGURED pressure reducing valve gunmetal - new

- Temperature: max. 70°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Factory setting: 400 kPa (4 bar)
- Secondary pressure: 200 - 600 kPa (2 - 6 bar)
- Connection: manometer
- Consisting of: unions

| DN (mm) | GN (inch) | Size (inch) | JRG Code | GF Code | Weight (kg) |
|---|---|---|---|---|---|
| 15 | ½ | ½ | **1310.240** | **350 740 141** | 0.780 |
| 20 | ¾ | ¾ | **1310.320** | **350 740 241** | 1.000 |
| 25 | 1 | 1 | **1310.400** | **350 740 341** | 1.800 |
| 32 | 1 ¼ | 1 ¼ | **1310.480** | **350 740 441** | 2.640 |
| 40 | 1 ½ | 1 ½ | **1310.560** | **350 740 541** | 4.500 |
| 50 | 2 | 2 | **1310.640** | **350 740 641** | 6.878 |
| 65 | 2 ½ | 2 ½ | **1310.720** | **350 740 741** | 7.903 |

| DN (mm) | GN (inch) | d1 R (inch) | d2 G (inch) | d3 Rp (inch) | d4 (mm) | h1 (mm) | h2 (mm) | l1 (mm) | l2 (mm) | z (mm) | ⬡ (mm) | PN (bar) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | ½ | ½ | ¾ | ⅛ | 53 | 34 | 79 | 130 | 25 | 40 | 5 | 25 |
| 20 | ¾ | ¾ | 1 | ⅛ | 53 | 42 | 81 | 142 | 29 | 43 | 5 | 25 |
| 25 | 1 | 1 | 1 ¼ | ¼ | 60 | 55 | 90 | 167 | 34 | 50 | 5 | 25 |
| 32 | 1 ¼ | 1 ¼ | 1 ½ | ¼ | 72 | 67 | 109 | 196 | 38 | 60 | 6 | 25 |
| 40 | 1 ½ | 1 ½ | 1 ¾ | ¼ | 80 | 80 | 122 | 222 | 39 | 73 | 6 | 25 |
| 50 | 2 | 2 | 2 ⅜ | ¼ | 96 | 98 | 151 | 268 | 47 | 88 | 8 | 25 |
| 65 | 2 ½ | 2 ½ | 3 | ¼ | 96 | 98 | 151 | 292 | 56 | 90 | 8 | 25 |




## JRGURED pressure reducing valve gunmetal - new

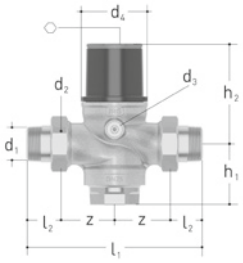
- Temperature: max. 70°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Factory setting: 200 kPa (2 bar)
- Secondary pressure: 50 - 200 kPa (0.5 - 2 bar)
- Connection: manometer
- Consisting of: unions

| DN (mm) | GN (inch) | Size (inch) | JRG Code | GF Code | Weight (kg) |
|---|---|---|---|---|---|
| 15 | ½ | ½ | **1320.240** | **350 740 151** | 0.780 |
| 20 | ¾ | ¾ | **1320.320** | **350 740 251** | 1.000 |
| 25 | 1 | 1 | **1320.400** | **350 740 351** | 1.600 |
| 32 | 1 ¼ | 1 ¼ | **1320.480** | **350 740 451** | 2.640 |
| 40 | 1 ½ | 1 ½ | **1320.560** | **350 740 551** | 4.290 |
| 50 | 2 | 2 | **1320.640** | **350 740 651** | 6.530 |
| 65 | 2 ½ | 2 ½ | **1320.720** | **350 740 751** | 7.693 |

| DN (mm) | GN (inch) | d1 R (inch) | d2 G (inch) | d3 Rp (inch) | d4 (mm) | h1 (mm) | h2 (mm) | l1 (mm) | l2 (mm) | z (mm) | ⬡ (mm) | PN (bar) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | ½ | ½ | ¾ | ⅛ | 53 | 34 | 79 | 130 | 25 | 40 | 5 | 25 |
| 20 | ¾ | ¾ | 1 | ⅛ | 53 | 42 | 81 | 142 | 29 | 43 | 5 | 25 |
| 25 | 1 | 1 | 1 ¼ | ¼ | 60 | 55 | 90 | 167 | 34 | 50 | 5 | 25 |

table continued on the next page

| DN (mm) | GN (inch) | d1 R (inch) | d2 G (inch) | d3 Rp (inch) | d4 (mm) | h1 (mm) | h2 (mm) | l1 (mm) | l2 (mm) | z (mm) | ⬡ (mm) | PN (bar) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 1 ¼ | 1 ¼ | 1 ½ | ¼ | 72 | 67 | 109 | 196 | 38 | 60 | 6 | 25 |
| 40 | 1 ½ | 1 ½ | 1 ¾ | ¼ | 80 | 80 | 122 | 222 | 39 | 73 | 6 | 25 |
| 50 | 2 | 2 | 2 ⅜ | ¼ | 96 | 98 | 151 | 268 | 47 | 88 | 8 | 25 |
| 65 | 2 ½ | 2 ½ | 3 | ¼ | 96 | 98 | 151 | 292 | 56 | 90 | 8 | 25 |



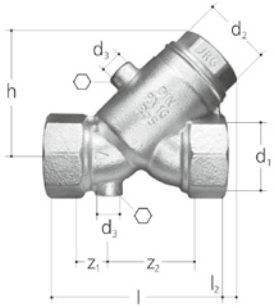

### JRGURED pressure reducing valve gunmetal - new

- Temperature: max. 70°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Factory setting: 600 kPa (6 bar)
- Secondary pressure: 600 - 1000 kPa (6 - 10 bar)
- Connection: manometer
- Consisting of: unions

| DN (mm) | GN (inch) | Size (inch) | JRG Code | GF Code | Weight (kg) |
|---|---|---|---|---|---|
| 15 | ½ | ½ | **1330.240** | **350 740 161** | 0.780 |
| 20 | ¾ | ¾ | **1330.320** | **350 740 261** | 1.000 |
| 25 | 1 | 1 | **1330.400** | **350 740 361** | 1.800 |
| 32 | 1 ¼ | 1 ¼ | **1330.480** | **350 740 461** | 2.750 |
| 40 | 1 ½ | 1 ½ | **1330.560** | **350 740 561** | 4.590 |
| 50 | 2 | 2 | **1330.640** | **350 740 661** | 7.050 |
| 65 | 2 ½ | 2 ½ | **1330.720** | **350 740 761** | 8.018 |

| DN (mm) | GN (inch) | d1 R (inch) | d2 G (inch) | d3 Rp (inch) | d4 (mm) | h1 (mm) | h2 (mm) | l1 (mm) | l2 (mm) | z (mm) | ⬡ (mm) | PN (bar) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | ½ | ½ | ¾ | ⅛ | 53 | 34 | 79 | 130 | 25 | 40 | 5 | 25 |
| 20 | ¾ | ¾ | 1 | ⅛ | 53 | 42 | 81 | 142 | 29 | 43 | 5 | 25 |
| 25 | 1 | 1 | 1 ¼ | ¼ | 60 | 55 | 90 | 167 | 34 | 50 | 5 | 25 |
| 32 | 1 ¼ | 1 ¼ | 1 ½ | ¼ | 72 | 67 | 109 | 196 | 38 | 60 | 6 | 25 |
| 40 | 1 ½ | 1 ½ | 1 ¾ | ¼ | 80 | 80 | 122 | 222 | 39 | 73 | 6 | 25 |
| 50 | 2 | 2 | 2 ⅜ | ¼ | 96 | 98 | 151 | 268 | 47 | 88 | 8 | 25 |
| 65 | 2 ½ | 2 ½ | 3 | ¼ | 96 | 98 | 151 | 292 | 56 | 90 | 8 | 25 |

# Non-return valves



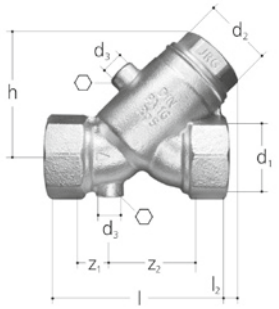

### JRG Check valve gunmetal

- Temperature: max. 90°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Opening pressure: < 5 kPa (< 50 mbar)
- Connection: female thread

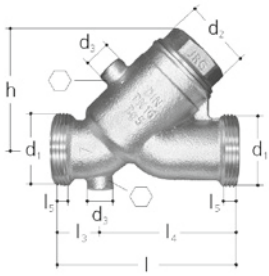
| DN (mm) | GN (inch) | Size (inch) | JRG Code | GF Code | Weight (kg) |
|---|---|---|---|---|---|
| 15 | ½ | ½ | **1610.240** | **350 896 257** | 0.326 |
| 20 | ¾ | ¾ | **1610.320** | **350 896 258** | 0.390 |
| 25 | 1 | 1 | **1610.400** | **350 896 259** | 0.814 |
| 32 | 1 ¼ | 1 ¼ | **1610.480** | **350 896 260** | 1.090 |
| 40 | 1 ½ | 1 ½ | **1610.560** | **350 896 261** | 1.200 |
| 50 | 2 | 2 | **1610.640** | **350 896 262** | 2.040 |
| 65 | 2 ½ | 2 ½ | **1610.720** | **350 898 300** | 3.310 |

| DN (mm) | GN (inch) | Size (inch) | d1 Rp (inch) | d2 G (inch) | d3 Rp (inch) | h (mm) | l (mm) | l2 (mm) | PN (bar) | z1 (mm) | z2 (mm) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | ½ | ½ | ½ | ½ | ¼ | 42 | 65 | 1 | 16 | 10 | 27 | 6 |
| 20 | ¾ | ¾ | ¾ | ¾ | ¼ | 51 | 75 | 3 | 16 | 12 | 33 | 6 |
| 25 | 1 | 1 | 1 | 1 | ¼ | 61 | 90 | 3 | 16 | 15 | 40 | 6 |

table continued on the next page




| DN (mm) | GN (inch) | Size (inch) | d1 Rp (inch) | d2 G (inch) | d3 Rp (inch) | h (mm) | l (mm) | l2 (mm) | PN (bar) | z1 (mm) | z2 (mm) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 1 ¼ | 1 ¼ | 1 ¼ | 1 ¼ | ¼ | 80 | 110 | 9 | 16 | 19 | 52 | 6 |
| 40 | 1 ½ | 1 ½ | 1 ½ | 1 ½ | ¼ | 91 | 120 | 10 | 16 | 20 | 61 | 6 |
| 50 | 2 | 2 | 2 | 2 | ¼ | 107 | 150 | 5 | 16 | 23 | 77 | 6 |
| 65 | 2 ½ | 2 ½ | 2 ½ | 2 ½ | ¼ | 116 | 180 | | 16 | 22 | 98 | 6 |

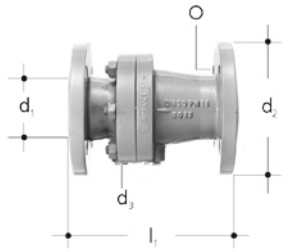



## JRG Check valve gunmetal

- Temperature: max. 90°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Opening pressure: < 5 kPa (< 50 mbar)
- Connection: male thread

| DN (mm) | Size (inch) | JRG Code | GF Code | Weight (kg) |
|---|---|---|---|---|
| 15 | ½ | **1611.015** | **350 896 244** | 0.311 |
| 20 | ¾ | **1611.020** | **350 896 245** | 0.460 |
| 25 | 1 | **1611.025** | **350 896 246** | 0.749 |
| 32 | 1 ¼ | **1611.032** | **350 896 247** | 0.860 |
| 40 | 1 ½ | **1611.040** | **350 896 248** | 1.257 |
| 50 | 2 | **1611.050** | **350 896 249** | 1.860 |
| 65 | 2 ½ | **1611.065** | **350 898 302** | 3.120 |

| DN (mm) | Size (inch) | d1 G (inch) | d2 G (inch) | d3 Rp (inch) | h (mm) | l (mm) | l3 (mm) | l4 (mm) | l5 (mm) | PN (bar) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | ½ | ¾ | ½ | ¼ | 42 | 75 | 24 | 52 | 6 | 16 | 6 |
| 20 | ¾ | 1 | ¾ | ¼ | 51 | 87 | 24 | 63 | 7 | 16 | 6 |
| 25 | 1 | 1 ¼ | 1 | ¼ | 61 | 99 | 24 | 75 | 8 | 16 | 6 |
| 32 | 1 ¼ | 1 ½ | 1 ¼ | ¼ | 80 | 118 | 30 | 89 | 9 | 16 | 6 |
| 40 | 1 ½ | 1 ¾ | 1 ½ | ¼ | 91 | 130 | 31 | 100 | 10 | 16 | 6 |
| 50 | 2 | 2 ⅜ | 2 | ¼ | 107 | 155 | 35 | 120 | 11 | 16 | 6 |
| 65 | 2 ½ | 3 | 2 ½ | ¼ | 116 | 190 | 43 | 147 | 15 | 16 | 6 |

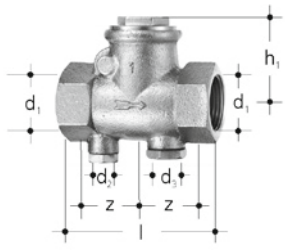



## JRG Check valve gray cast iron

- Temperature: max. 65°C
- Material: grey cast iron (polyamide powder coating), stainless steel, EPDM
- Connection: flange

*as long as stock last

| DN (mm) | d (mm) | JRG Code | GF Code | Weight (kg) | d1 (mm) | d2 (mm) | d3 G (inch) | l1 (mm) | PN (bar) | ○ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80 | 80 | **1650.080** | **355 635 560** | 21.000 | 80 | 200 | ½ | 260 | 16 | 8 |

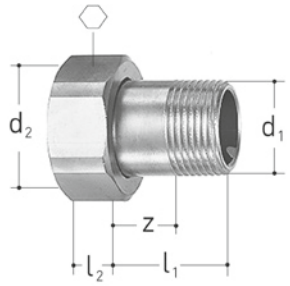



## JRG Swing check valve gunmetal

- Temperature: max. 90°C
- Material: gunmetal, EPDM
- Tightness: from 10 kPa (100 mbar) counter pressure
- Connection: female thread

| DN (mm) | GN (inch) | Size (inch) | JRG Code | GF Code | Weight (kg) | d1 Rp (inch) | d2 Rp (inch) | d3 Rp (inch) | h1 (mm) | l (mm) | PN (bar) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | ½ | ½ | **1682.240** | **350 850 001** | 0.350 | ½ | ¼ | ⅜ | 40 | 65 | 16 | 20 |
| 20 | ¾ | ¾ | **1682.320** | **350 850 002** | 0.500 | ¾ | ¼ | ⅜ | 47 | 75 | 16 | 23 |
| 25 | 1 | 1 | **1682.400** | **350 850 003** | 0.650 | 1 | ¼ | ⅜ | 50 | 90 | 16 | 28 |
| 32 | 1 ¼ | 1 ¼ | **1682.480** | **350 850 004** | 1.000 | 1 ¼ | ¼ | ⅜ | 58 | 105 | 16 | 34 |
| 40 | 1 ½ | 1 ½ | **1682.560** | **350 850 005** | 1.420 | 1 ½ | ¼ | ⅜ | 65 | 120 | 16 | 41 |
| 50 | 2 | 2 | **1682.640** | **350 850 006** | 2.080 | 2 | ¼ | ⅜ | 78 | 140 | 16 | 46 |

# Accessories




### JRG Union brass

- Description: to 1684, 3400
- Material: brass
- Connection: female thread, male thread
- Supplied with: flat gasket AFM34

| GN (inch) | DN (mm) | JRG Code | GF Code | Weight (kg) | d1 R (inch) | d2 G (inch) | l1 (mm) | l2 (mm) |
|---|---|---|---|---|---|---|---|---|
| ⅜ | 10 | **8200.160** | **350 278 401** | 0.040 | ⅜ | ½ | 22 | 6 |

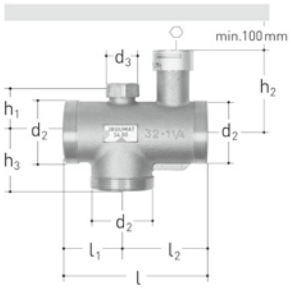
# Spare parts



### JRG Repair kit to 1682

- Consisting of: pendulum with sealing, shaft, sleeve, plug, flat gasket

| GN (inch) | Code |
|---|---|
| ½ | **350 850 036** |
| ¾ | **350 850 046** |
| 1 | **350 850 056** |
| 1 ¼ | **350 850 066** |
| 1 ½ | **350 850 076** |
| 2 | **350 850 086** |




### JRGUMAT Thermostatic mixing valve gunmetal

- Temperature: max. 90°C
- Factory setting: 25 / 40 / 48 / 55 / 70°C (adjustable)
- Material: gunmetal
- Connection: male thread

| DN (mm) | Thread Type | Size (inch) | range (°C) | Temperature (°C) | JRG Code | GF Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 15 | GN | ½ | 20 - 30 | 25 | **3400.910** | **350 760 511** | 0.530 |
| 15 | GN | ½ | 30 - 45 | 40 | **3400.912** | **350 760 512** | 0.530 |
| 15 | GN | ½ | 45 - 65 | 55 | **3400.916** | **350 760 513** | 0.530 |
| 15 | GN | ½ | 60 - 80 | 70 | **3400.918** | **350 760 514** | 0.530 |
| 20 | GN | ¾ | 20 - 30 | 25 | **3400.920** | **350 760 411** | 0.700 |
| 20 | GN | ¾ | 30 - 45 | 40 | **3400.922** | **350 760 412** | 0.670 |
| 20 | GN | ¾ | 45 - 65 | 55 | **3400.926** | **350 760 413** | 0.701 |
| 20 | GN | ¾ | 60 - 80 | 70 | **3400.928** | **350 760 414** | 0.701 |
| 25 | GN | 1 | 20 - 30 | 25 | **3400.930** | **350 760 311** | 0.870 |
| 25 | GN | 1 | 30 - 45 | 40 | **3400.932** | **350 760 312** | 0.870 |
| 25 | GN | 1 | 45 - 65 | 55 | **3400.936** | **350 760 313** | 0.910 |
| 25 | GN | 1 | 60 - 80 | 70 | **3400.938** | **350 760 314** | 0.910 |
| 32 | GN | 1 ¼ | 20 - 30 | 25 | **3400.940** | **350 760 211** | 1.670 |
| 32 | GN | 1 ¼ | 30 - 45 | 40 | **3400.942** | **350 760 212** | 1.630 |
| 32 | GN | 1 ¼ | 45 - 65 | 55 | **3400.946** | **350 760 213** | 1.590 |
| 32 | GN | 1 ¼ | 60 - 80 | 70 | **3400.948** | **350 760 214** | 1.590 |
| 40 | GN | 1 ½ | 20 - 30 | 25 | **3400.950** | **350 760 111** | 2.140 |
| 40 | GN | 1 ½ | 30 - 45 | 40 | **3400.952** | **350 760 112** | 2.140 |
| 40 | GN | 1 ½ | 45 - 65 | 55 | **3400.956** | **350 760 113** | 2.100 |
| 40 | GN | 1 ½ | 60 - 80 | 70 | **3400.958** | **350 760 114** | 2.100 |

table continued on the next page

| DN (mm) | Thread Type | Size (inch) | range (°C) | Temperature (°C) | JRG Code | GF Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 50 | GN | 2 | 20 - 30 | 25 | **3400.960** | **350 760 011** | 3.610 |
| 50 | GN | 2 | 30 - 45 | 40 | **3400.962** | **350 760 012** | 3.510 |
| 50 | GN | 2 | 45 - 65 | 55 | **3400.966** | **350 760 013** | 3.510 |
| 50 | GN | 2 | 60 - 80 | 70 | **3400.968** | **350 760 014** | 3.510 |

| DN (mm) | Thread Type | d2 G (inch) | d3 G (inch) | h1 (mm) | h2 (mm) | h3 (mm) | l (mm) | l1 (mm) | l2 (mm) | PN (bar) | ⬡ (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | GN | 1 ⅛ | | | 47 | 35 | 90 | 35 | 55 | 10 | 5 |
| 15 | GN | 1 ⅛ | | | 47 | 35 | 90 | 35 | 55 | 10 | 5 |
| 15 | GN | 1 ⅛ | | | 47 | 35 | 90 | 35 | 55 | 10 | 5 |
| 15 | GN | 1 ⅛ | | | 47 | 35 | 90 | 35 | 55 | 10 | 5 |
| 20 | GN | 1 ¼ | ½ | 32 | 49 | 40 | 100 | 40 | 60 | 10 | 5 |
| 20 | GN | 1 ¼ | ½ | 32 | 49 | 40 | 100 | 40 | 60 | 10 | 5 |
| 20 | GN | 1 ¼ | ½ | 32 | 49 | 40 | 100 | 40 | 60 | 10 | 5 |
| 20 | GN | 1 ¼ | ½ | 32 | 49 | 40 | 100 | 40 | 60 | 10 | 5 |
| 25 | GN | 1 ½ | ¾ | 36 | 51 | 43 | 110 | 43 | 67 | 10 | 5 |
| 25 | GN | 1 ½ | ¾ | 36 | 51 | 43 | 110 | 43 | 67 | 10 | 5 |
| 25 | GN | 1 ½ | ¾ | 36 | 51 | 43 | 110 | 43 | 67 | 10 | 5 |
| 25 | GN | 1 ½ | ¾ | 36 | 51 | 43 | 110 | 43 | 67 | 10 | 5 |
| 32 | GN | 2 | ¾ | 41 | 75 | 52 | 130 | 52 | 78 | 10 | 8 |
| 32 | GN | 2 | ¾ | 41 | 75 | 52 | 130 | 52 | 78 | 10 | 8 |
| 32 | GN | 2 | ¾ | 41 | 75 | 52 | 130 | 52 | 78 | 10 | 8 |
| 32 | GN | 2 | ¾ | 41 | 75 | 52 | 130 | 52 | 78 | 10 | 8 |
| 40 | GN | 2 ¼ | ¾ | 50 | 77 | 58 | 150 | 58 | 92 | 10 | 8 |
| 40 | GN | 2 ¼ | ¾ | 50 | 77 | 58 | 150 | 58 | 92 | 10 | 8 |
| 40 | GN | 2 ¼ | ¾ | 50 | 77 | 58 | 150 | 58 | 92 | 10 | 8 |
| 40 | GN | 2 ¼ | ¾ | 50 | 77 | 58 | 150 | 58 | 92 | 10 | 8 |
| 50 | GN | 2 ¾ | ¾ | 60 | 85 | 70 | 180 | 70 | 110 | 10 | 8 |
| 50 | GN | 2 ¾ | ¾ | 60 | 85 | 70 | 180 | 70 | 110 | 10 | 8 |
| 50 | GN | 2 ¾ | ¾ | 60 | 85 | 70 | 180 | 70 | 110 | 10 | 8 |
| 50 | GN | 2 ¾ | ¾ | 60 | 85 | 70 | 180 | 70 | 110 | 10 | 8 |

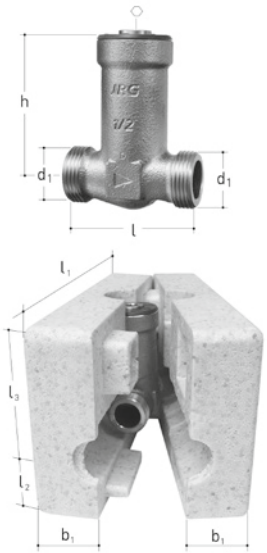



## JRGUMAT Thermostatic mixing valve gunmetal Flanged

- Temperature: max. 90°C
- Factory setting: 25 / 40 / 48 / 55°C (adjustable)
- Material: gunmetal
- Connection: flange

| DN (mm) | d (mm) | range (°C) | Temperature (°C) | JRG Code | GF Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 65 | 65 | 20 - 30 | 25 | **3410.601** | **350 767 214** | 22.500 |
| 65 | 65 | 30 - 45 | 40 | **3410.605** | **350 767 215** | 22.500 |
| 65 | 65 | 45 - 65 | 55 | **3410.608** | **350 767 216** | 22.500 |
| 80 | 80 | 20 - 30 | 25 | **3410.801** | **350 767 414** | 27.500 |
| 80 | 80 | 30 - 45 | 40 | **3410.805** | **350 767 415** | 27.500 |
| 80 | 80 | 45 - 65 | 55 | **3410.808** | **350 767 416** | 27.500 |

| DN (mm) | d1 (mm) | d2 G (inch) | d3 (mm) | h1 (mm) | h2 (mm) | l1 (mm) | l2 (mm) | l3 (mm) | ○ | ⬡ (mm) | PN (bar) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 65 | 65 | 1 ½ | 185 | 82 | 121 | 145 | 290 | 112 | 4 | 8 | 10 |
| 65 | 65 | 1 ½ | 185 | 82 | 121 | 145 | 290 | 112 | 4 | 8 | 10 |
| 65 | 65 | 1 ½ | 185 | 82 | 121 | 145 | 290 | 112 | 4 | 8 | 10 |
| 80 | 80 | 2 | 200 | 92 | 127 | 155 | 310 | 124 | 8 | 8 | 10 |
| 80 | 80 | 2 | 200 | 92 | 127 | 155 | 310 | 124 | 8 | 8 | 10 |
| 80 | 80 | 2 | 200 | 92 | 127 | 155 | 310 | 124 | 8 | 8 | 10 |




## JRGUTHERM Circulation controller gunmetal

- Material: gunmetal
- Factory setting: 57°C (adjustable 36 - 63°C)
- Connection: male thread

| DN (mm) | Size (inch) | GN (inch) | JRG Code | GF Code | Weight (kg) |
|---|---|---|---|---|---|
| 15 | ½ | ½ | **6320.914** | **350 831 401** | 0.500 |
| 20 | ¾ | ¾ | **6320.924** | **350 831 501** | 0.519 |

| DN (mm) | d1 G (inch) | h (mm) | l (mm) | ⬡ (mm) | l1 (mm) | l2 (mm) | l3 (mm) | b1 (mm) | PN (bar) |
|---|---|---|---|---|---|---|---|---|---|
| 15 | ¾ | 64 | 60 | 8 | 194 | 38 | 70 | 37 | 10 |
| 20 | 1 | 64 | 60 | 8 | 194 | 38 | 70 | 37 | 10 |

# ecoFIT



## Your benefits

+ **UV and weather-resistant**
+ **Outstanding abrasion resistance**
+ **High impact strength**
+ **Wide choice of jointing technologies**

## Technical data

**Materials**
PE

**Dimensions range**
20 mm to 1200 mm (ISO/DIN)

**Jointing technology**
Electro fusion, socket fusion, butt fusoin, IR fusion

**Operating pressure**
Up to 16 bar

**Operating temperature**
–50°C to 60°C

The value above listed are to be considered for water, in case of use chemical addition it is always recommended to contact GF specialist to an individual and more detailed assessment.

## Pressure-temperature diagram for PE

### PE100

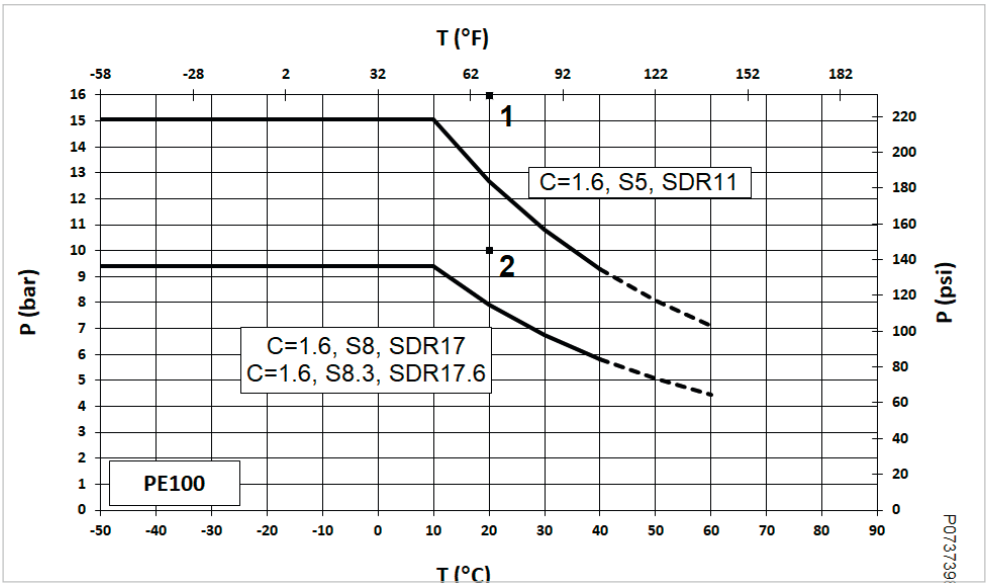
The following pressure-temperature diagram for PE100 pipe and fittings is valid for a service life of 25 years.

The design factor of 1.6 (or 1.25) recommended by GF Piping Systems has been incorporated.

The diagram can be used for water or media resembling water, in other words, media that have no reduction factor for chemical resistance.

**Please take into account the pressure-temperature diagrams for valves and special fittings. Because of the construction and/or sealing material used, differences are possible when compared to pipe and fittings. More information is available in the Planning Fundamentals of the relevant types of valves and special fittings.**

**In case of long-term operating pressure at temperatures above 40 °C, please contact your authorized GF Piping Systems representative.**

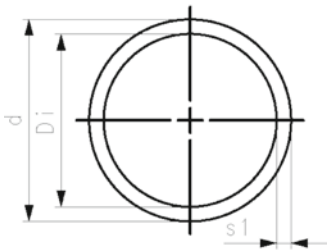



1 Design factor C = 1.25, S5, SDR11 for 20 °C water, 50 years
2 Design factor C = 1.25, S8.3, SDR17.6 and S8, SDR17 for 20 °C water, 50 years
P Permissible pressure (bar, psi)
T Temperature (°C, °F)

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# ecoFIT pipes





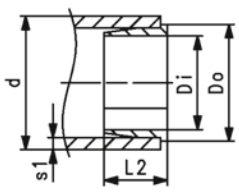

## ecoFIT pipe PE100
## SDR11 / PN16 / S5

**Model:**

- Dimension: acc. to DIN 8074/75
- Colour: black
- Pipe length: 5m, with plain ends
- **Note 1**: DIBT Z-40.23-406 Approval
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

| Note | d (mm) | Di (mm) | SDR | PN (bar) | Code | Weight (kg/m) | s1 (mm) |
|---|---|---|---|---|---|---|---|
| 1 | 16 | 12.4 | 11 | 16 | **193 017 155** | 0.084 | 1.8 |
| 1 | 20 | 16.2 | 11 | 16 | **193 017 156** | 0.118 | 2.0 |
| 1 | 25 | 20.4 | 11 | 16 | **193 017 157** | 0.173 | 2.3 |
| 1 | 32 | 26.2 | 11 | 16 | **193 017 158** | 0.282 | 3.0 |
| 1 | 40 | 32.6 | 11 | 16 | **193 017 159** | 0.434 | 3.7 |
| 1 | 50 | 40.8 | 11 | 16 | **193 017 160** | 0.673 | 4.6 |
| 1 | 63 | 51.4 | 11 | 16 | **193 017 161** | 1.060 | 5.8 |
| 1 | 75 | 61.4 | 11 | 16 | **193 017 162** | 1.480 | 6.8 |
| 1 | 90 | 73.6 | 11 | 16 | **193 017 163** | 2.140 | 8.2 |
| 1 | 110 | 90.0 | 11 | 16 | **193 017 164** | 3.180 | 10.0 |
| 1 | 125 | 102.8 | 11 | 16 | **193 017 165** | 4.120 | 11.4 |
| 1 | 140 | 114.6 | 11 | 16 | **193 017 166** | 5.130 | 12.7 |
| 1 | 160 | 130.8 | 11 | 16 | **193 017 167** | 6.740 | 14.6 |
| 1 | 180 | 147.2 | 11 | 16 | **193 017 168** | 8.510 | 16.4 |
| 1 | 200 | 163.6 | 11 | 16 | **193 017 169** | 10.500 | 18.2 |
| 1 | 225 | 184.0 | 11 | 16 | **193 017 170** | 13.300 | 20.5 |
| | 250 | 204.6 | 11 | 16 | **193 017 171** | 16.300 | 22.7 |
| | 280 | 229.2 | 11 | 16 | **193 017 172** | 20.500 | 25.4 |
| | 315 | 257.8 | 11 | 16 | **193 017 173** | 25.900 | 28.6 |
| | 355 | 290.6 | 11 | 16 | **193 017 174** | 32.900 | 32.2 |
| | 400 | 327.4 | 11 | 16 | **193 017 175** | 41.700 | 36.3 |
| | 450 | 368.2 | 11 | 16 | **193 017 176** | 52.800 | 40.9 |
| | 500 | 409.2 | 11 | 16 | **193 017 177** | 65.200 | 45.4 |





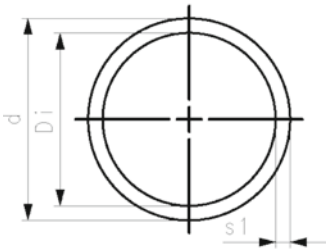

## ecoFIT Stiffener PE100
## d20-25mm

**Model:**

- Used as support during d20 and d25 socket fusion jointing to prevent the pipe from collapsing during the heating and jointing process.

| d (mm) | Di (mm) | DN (mm) | Code | Weight (kg/m) | Do (mm) | L2 (mm) | s1 (mm) |
|---|---|---|---|---|---|---|---|
| 20 | 14 | 15 | **733 900 006** | 0.001 | 18 | 9.5 | 1.9 |
| 25 | 18 | 20 | **733 900 007** | 0.001 | 23 | 11.0 | 2.3 |






## ecoFIT pipe PE100
## SDR17.6 / PN10 / S8.3

**Model:**

- Dimension: acc. to DIN 8074/75
- Colour: black
- Pipe length: 5m, with plain ends
- **Note 1**: DIBT Z-40.23-406 Approval
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

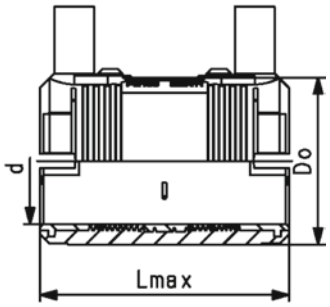
**Inflation surcharges for pipes are possible, they follow the current purchase of materials price.**

| Note | d (mm) | Di (mm) | SDR | PN (bar) | Code | Weight (kg/m) | s1 (mm) |
|---|---|---|---|---|---|---|---|
| 1 | 25 | 21.4 | 17.6 | 10 | **193 017 107** | 0.139 | 1.8 |
| 1 | 32 | 28.4 | 17.6 | 10 | **193 017 108** | 0.198 | 2.0 |
| 1 | 40 | 35.4 | 17.6 | 10 | **193 017 109** | 0.288 | 2.3 |
| 1 | 50 | 44.2 | 17.6 | 10 | **193 017 110** | 0.445 | 2.9 |
| 1 | 63 | 55.8 | 17.6 | 10 | **193 017 111** | 0.695 | 3.6 |
| 1 | 75 | 66.4 | 17.6 | 10 | **193 017 112** | 0.987 | 4.3 |
| 1 | 90 | 79.8 | 17.6 | 10 | **193 017 113** | 1.400 | 5.1 |
| 1 | 110 | 97.4 | 17.6 | 10 | **193 017 114** | 2.100 | 6.3 |
| 1 | 125 | 110.8 | 17.6 | 10 | **193 017 115** | 2.690 | 7.1 |
| 1 | 140 | 124.0 | 17.6 | 10 | **193 017 116** | 3.370 | 8.0 |
| 1 | 160 | 141.8 | 17.6 | 10 | **193 017 117** | 4.400 | 9.1 |
| 1 | 180 | 159.6 | 17.6 | 10 | **193 017 118** | 5.540 | 10.2 |
| 1 | 200 | 177.2 | 17.6 | 10 | **193 017 119** | 6.860 | 11.4 |
| 1 | 225 | 199.4 | 17.6 | 10 | **193 017 120** | 8.640 | 12.8 |
| | 250 | 221.6 | 17.6 | 10 | **193 017 121** | 10.700 | 14.2 |
| | 280 | 248.2 | 17.6 | 10 | **193 017 122** | 13.300 | 15.9 |
| | 315 | 279.2 | 17.6 | 10 | **193 017 123** | 16.900 | 17.9 |
| | 355 | 314.8 | 17.6 | 10 | **193 017 124** | 21.400 | 20.1 |
| | 400 | 354.6 | 17.6 | 10 | **193 017 125** | 27.200 | 22.7 |
| | 450 | 400.0 | 17.6 | 10 | **193 017 126** | 34.300 | 25.5 |
| | 500 | 443.2 | 17.6 | 10 | **193 017 127** | 42.300 | 28.3 |

# ELGEF Plus electrofusion fittings

## Coupler



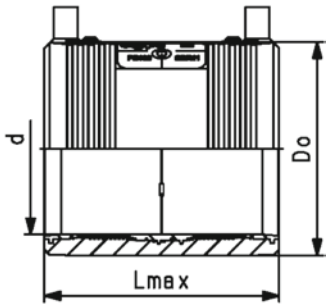



### ELGEF Plus Electrofusion coupler PE100 d20-63mm / SDR11

- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Removable centre stop
- With integral pipe fixation

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | Lmax (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|
| 20 | 15 | 16 | **753 911 606** | 0.034 | 31 | 70 | 9-11 |
| 25 | 20 | 16 | **753 911 607** | 0.040 | 36 | 70 | 9-11 |
| 32 | 25 | 16 | **753 911 608** | 0.053 | 44 | 72 | 9-11 |
| 40 | 32 | 16 | **753 911 609** | 0.076 | 54 | 80 | 9-11 |
| 50 | 40 | 16 | **753 911 610** | 0.109 | 66 | 88 | 9-11 |
| 63 | 50 | 16 | **753 911 611** | 0.172 | 81 | 96 | 9-17.6 |





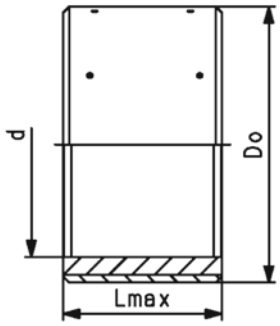

### ELGEF Plus Electrofusion coupler PE100 d75-315mm / SDR11

- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Removable centre stop up to d160

* FM 1613 approved - 15 bar

| | d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | Lmax (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|
| | 75 | 65 | 16 | **753 911 612** | 0.282 | 96 | 110 | 9-17.6 |
| * | 90 | 80 | 16 | **753 911 613** | 0.406 | 113 | 125 | 9-17.6 |
| * | 110 | 100 | 16 | **753 911 614** | 0.692 | 138 | 145 | 9-17.6 |
| * | 125 | 100 | 16 | **753 911 615** | 0.718 | 154 | 156 | 9-17.6 |
| * | 140 | 125 | 16 | **753 911 616** | 0.945 | 172 | 166 | 9-17.6 |
| * | 160 | 150 | 16 | **753 911 617** | 1.362 | 196 | 180 | 9-17.6 |
| * | 180 | 150 | 16 | **753 911 618** | 1.747 | 219 | 192 | 9-17.6 |
| * | 200 | 200 | 16 | **753 911 619** | 1.866 | 244 | 208 | 9-17.6 |
| * | 225 | 200 | 16 | **753 911 620** | 3.329 | 273 | 225 | 9-17.6 |
| * | 250 | 250 | 16 | **753 911 621** | 4.678 | 304 | 248 | 9-17.6 |
| * | 280 | 250 | 16 | **753 911 622** | 7.500 | 340 | 252 | 9-17.6 |
| * | 315 | 300 | 16 | **753 911 623** | 8.142 | 382 | 267 | 9-17.6 |



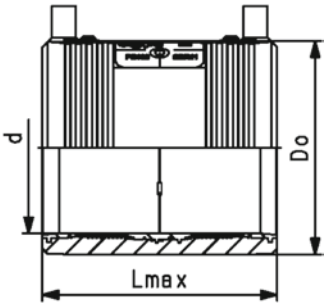

## ELGEF Plus Electrofusion coupler PE100
## d355-800mm / SDR11

- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- With active reinforcement
- Ø355 – 500 have two connected (monofilar) welding zones (Both pipe ends can be welded simultaneously)
- Ø560 – 800 have two separate (bifilar) welding zones (Both pipe ends can be welded separately)

* FM 1613 approved - 15 bar

| | d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | Lmax (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|
| * | 355 | 350 | 16 | **753 911 704** | 13.098 | 438 | 291 | 9-17 |
| * | 400 | 400 | 16 | **753 911 705** | 18.320 | 493 | 295 | 9-17 |
| * | 450 | 450 | 16 | **753 911 706** | 24.700 | 554 | 327 | 9-17 |
| * | 500 | 500 | 16 | **753 911 707** | 33.700 | 616 | 358 | 9-17 |
| | 560 | 600 | 16 | **753 911 708** | 46.200 | 689 | 396 | 9-17 |
| | 630 | 600 | 16 | **753 911 709** | 65.300 | 775 | 440 | 9-17 |






## ELGEF Plus Electrofusion coupler PE100
## d160-315mm / SDR17

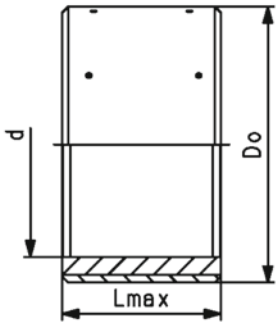
- 5 bar Gas / 10 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- d160 with removable centre stop

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | Lmax (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|
| 160 | 150 | 10 | **753 911 817** | 1.017 | 186 | 180 | 9-26 |
| 180 | 150 | 10 | **753 911 818** | 1.434 | 213 | 192 | 9-26 |
| 200 | 200 | 10 | **753 911 819** | 1.726 | 233 | 206 | 9-26 |
| 225 | 200 | 10 | **753 911 820** | 2.545 | 261 | 225 | 9-26 |
| 250 | 250 | 10 | **753 911 821** | 4.616 | 304 | 248 | 9-26 |
| 280 | 250 | 10 | **753 911 822** | 5.606 | 340 | 252 | 9-26 |
| 315 | 300 | 10 | **753 911 823** | 6.100 | 382 | 267 | 9-26 |




### ELGEF Plus Electrofusion coupler PE100
### d355-800mm / SDR17

- 5 bar Gas / 10 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- With active reinforcement
- Ø355 – 500 have two connected (monofilar) welding zones (Both pipe ends can be welded simultaneously)
- Ø560 – 800 have two separate (bifilar) welding zones (Both pipe ends can be welded separately)



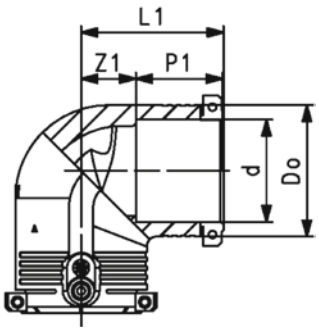

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | Lmax (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|
| 355 | 350 | 10 | **753 911 804** | 9.522 | 416 | 291 | 17-33 |
| 400 | 400 | 10 | **753 911 805** | 13.000 | 467 | 295 | 17-33 |
| 450 | 450 | 10 | **753 911 806** | 18.000 | 526 | 327 | 17-33 |
| 500 | 500 | 10 | **753 911 807** | 22.000 | 584 | 358 | 17-41 |
| 560 | 600 | 10 | **753 911 808** | 34.000 | 647 | 396 | 17-41 |
| 630 | 600 | 10 | **753 911 809** | 46.000 | 727 | 440 | 17-41 |

## Elbows



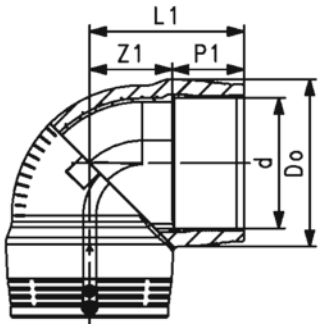
### ELGEF Plus Elbow 90° PE100
### d20-63mm / SDR11

- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- With integral pipe fixation




| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | L1 (mm) | P1 (mm) | Z1 (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|
| 20 | 15 | 16 | **753 101 606** | 0.080 | 35 | 54 | 34 | 20 | 9-11 |
| 25 | 20 | 16 | **753 101 607** | 0.074 | 35 | 54 | 34 | 20 | 9-11 |
| 32 | 25 | 16 | **753 101 608** | 0.094 | 44 | 53 | 36 | 17 | 9-11 |
| 40 | 32 | 16 | **753 101 609** | 0.128 | 54 | 62 | 39 | 23 | 9-11 |
| 50 | 40 | 16 | **753 101 610** | 0.196 | 66 | 71 | 43 | 28 | 9-11 |
| 63 | 50 | 16 | **753 101 611** | 0.312 | 81 | 81 | 48 | 32 | 9-17.6 |



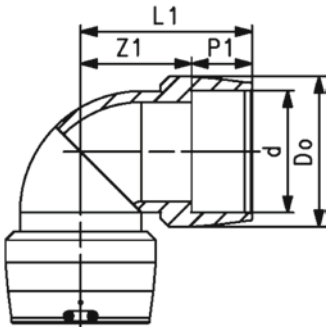



## ELGEF Plus Elbow 90° PE100
## d75-180mm / SDR11

- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | L1 (mm) | P1 (mm) | Z1 (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 16 | **753 101 612** | 0.415 | 97 | 94 | 54 | 40 | 9-17.6 |
| 90 | 80 | 16 | **753 101 813** | 0.828 | 115 | 122 | 62 | 60 | 9-17.6 |
| 110 | 100 | 16 | **753 101 814** | 1.224 | 140 | 147 | 72 | 76 | 9-17.6 |
| 125 | 100 | 16 | **753 101 815** | 1.742 | 160 | 155 | 77 | 68 | 9-17.6 |
| 140 | 125 | 16 | **753 101 816** | 2.762 | 185 | 170 | 83 | 87 | 9-17.6 |
| 160 | 150 | 16 | **753 101 817** | 3.830 | 196 | 191 | 89 | 102 | 11-17.6 |
| 180 | 150 | 16 | **753 101 818** | 5.410 | 219 | 210 | 96 | 114 | 11-17.6 |



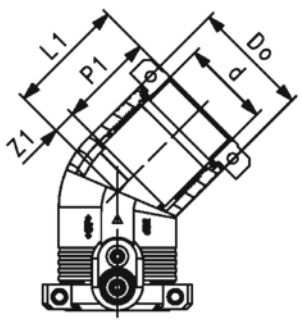



## ELGEF Plus Elbow 90° PE100
## d200-250mm / SDR11

- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | L1 (mm) | P1 (mm) | Z1 (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|
| 200 | 200 | 16 | **753 101 819** | 9.320 | 250 | 298 | 104 | 194 | 11-26 |
| 225 | 200 | 16 | **753 101 820** | 13.220 | 280 | 318 | 112 | 206 | 11-26 |
| 250 | 250 | 16 | **753 101 821** | 16.600 | 310 | 347 | 123 | 224 | 11-26 |



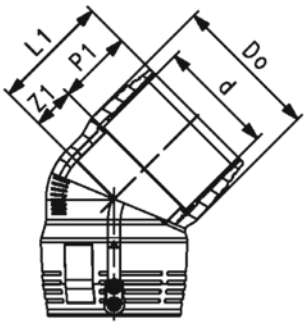



## ELGEF Plus Elbow 45° PE100
## d32-63mm / SDR11

- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- With integral pipe fixation

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | L1 (mm) | P1 (mm) | Z1 (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|
| 32 | 25 | 16 | **753 151 608** | 0.075 | 44 | 44 | 36 | 8 | 9-11 |
| 40 | 32 | 16 | **753 151 609** | 0.106 | 54 | 50 | 39 | 11 | 9-11 |
| 50 | 40 | 16 | **753 151 610** | 0.171 | 66 | 56 | 43 | 13 | 9-11 |
| 63 | 50 | 16 | **753 151 611** | 0.252 | 81 | 63 | 48 | 15 | 9-17.6 |



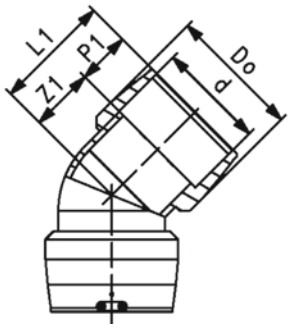



## ELGEF Plus Elbow 45° PE100
## d75-180mm / SDR11

- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | L1 (mm) | P1 (mm) | Z1 (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 16 | **753 151 612** | 0.332 | 97 | 71 | 54 | 17 | 9-17.6 |
| 90 | 80 | 16 | **753 151 813** | 0.583 | 115 | 91 | 62 | 29 | 9-17.6 |
| 110 | 100 | 16 | **753 151 814** | 0.985 | 140 | 112 | 72 | 40 | 9-17.6 |
| 125 | 100 | 16 | **753 151 815** | 1.438 | 160 | 119 | 78 | 49 | 9-17.6 |
| 140 | 125 | 16 | **753 151 816** | 2.242 | 185 | 125 | 83 | 42 | 9-17.6 |
| 160 | 150 | 16 | **753 151 817** | 3.055 | 196 | 135 | 89 | 46 | 11-17.6 |
| 180 | 150 | 16 | **753 151 818** | 4.037 | 217 | 144 | 95 | 47 | 11-17.6 |



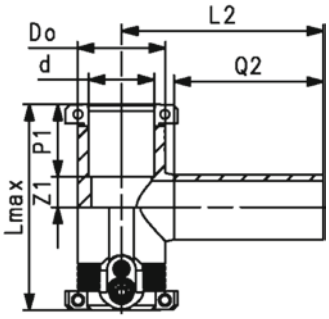



## ELGEF Plus Elbow 45° PE100
## d200-250mm / SDR11

- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | L1 (mm) | P1 (mm) | Z1 (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|
| 200 | 200 | 16 | **753 151 819** | 7.566 | 250 | 232 | 104 | 128 | 11-26 |
| 225 | 200 | 16 | **753 151 820** | 11.300 | 280 | 247 | 112 | 135 | 11-26 |
| 250 | 250 | 16 | **753 151 821** | 13.500 | 310 | 275 | 123 | 152 | 11-26 |



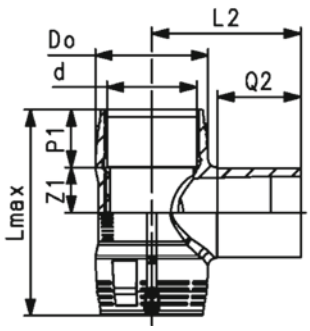



## ELGEF Plus Tee 90° PE100
## d20-63mm / SDR11

- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- With integral pipe fixation

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | L2 (mm) | Lmax (mm) | P1 (mm) | Z1 (mm) | Q2 (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 15 | 16 | **753 211 606** | 0.085 | 35 | 92 | 88 | 32 | 11 | 67 | 9-11 |
| 25 | 20 | 16 | **753 211 607** | 0.075 | 35 | 92 | 90 | 32 | 11 | 70 | 9-11 |
| 32 | 25 | 16 | **753 211 608** | 0.118 | 44 | 100 | 102 | 34 | 15 | 74 | 9-11 |
| 40 | 32 | 16 | **753 211 609** | 0.175 | 54 | 114 | 119 | 39 | 21 | 82 | 9-11 |
| 50 | 40 | 16 | **753 211 610** | 0.252 | 66 | 126 | 135 | 42 | 24 | 90 | 9-11 |
| 63 | 50 | 16 | **753 211 611** | 0.407 | 81 | 150 | 151 | 46 | 28 | 102 | 9-17.6 |



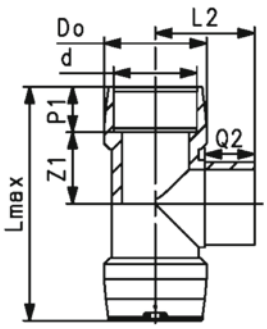



## ELGEF Plus Tee 90° PE100
## d75-180mm / SDR11

- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | L2 (mm) | Lmax (mm) | P1 (mm) | Z1 (mm) | Q2 (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 16 | **753 211 612** | 0.569 | 97 | 143 | 178 | 54 | 35 | 87 | 9-17.6 |
| 90 | 80 | 16 | **753 201 813** | 0.891 | 115 | 161 | 205 | 62 | 41 | 94 | 9-17.6 |
| 110 | 100 | 16 | **753 201 814** | 1.576 | 140 | 184 | 255 | 72 | 56 | 104 | 9-17.6 |
| 125 | 100 | 16 | **753 201 815** | 2.212 | 161 | 207 | 276 | 78 | 60 | 113 | 9-17.6 |
| 140 | 125 | 16 | **753 201 816** | 3.639 | 185 | 260 | 300 | 83 | 67 | 120 | 9-17.6 |
| 160 | 150 | 16 | **753 201 817** | 4.386 | 196 | 206 | 325 | 92 | 71 | 103 | 11-17.6 |
| 180 | 150 | 16 | **753 201 818** | 6.796 | 225 | 250 | 344 | 90 | 82 | 110 | 11-17.6 |



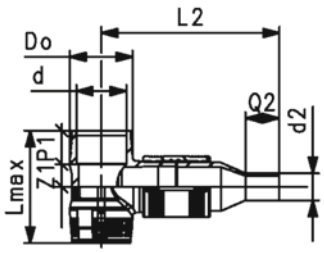



## ELGEF Plus Tee 90° PE100
## d200-250mm / SDR11

- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | L2 (mm) | Lmax (mm) | P1 (mm) | Z1 (mm) | Q2 (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 200 | 200 | 16 | **753 201 819** | 10.800 | 250 | 250 | 590 | 104 | 191 | 117 | 11-26 |
| 225 | 200 | 16 | **753 201 820** | 15.900 | 280 | 270 | 636 | 112 | 206 | 122 | 11-26 |
| 250 | 250 | 16 | **753 201 821** | 18.900 | 310 | 288 | 685 | 123 | 220 | 127 | 11-26 |



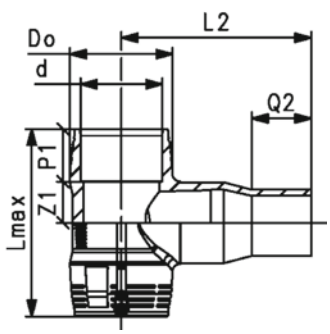



## ELGEF Plus Tee 90° reduced (kit) PE100
## d25-180mm / SDR11

- 10 bar Gas / 16 bar Water
- Integral pipe fixation (up to d63)
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF Plus Coupler and Spigot Reducer

| d (mm) | d2 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | L2 (mm) | Lmax (mm) | P1 (mm) | Z1 (mm) | Q2 (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | 25 | 32 | 16 | **193 281 005** | 0.319 | 54 | 244 | 120 | 39 | 21 | 41 | 9-17.6 |
| 75 | 40 | 65 | 16 | **193 280 998** | 1.060 | 97 | 296 | 187 | 61 | 33 | 49 | 9-17.6 |
| 90 | 50 | 80 | 16 | **193 280 999** | 1.655 | 112 | 336 | 202 | 61 | 41 | 55 | 9-17.6 |
| 110 | 63 | 100 | 16 | **193 280 961** | 2.812 | 136 | 336 | 242 | 65 | 56 | 63 | 9-17.6 |
| 125 | 63 | 100 | 16 | **193 280 963** | 3.673 | 151 | 361 | 256 | 75 | 53 | 63 | 9-17.6 |
| 125 | 110 | 100 | 16 | **193 280 965** | 3.920 | 151 | 389 | 256 | 75 | 53 | 82 | 9-17.6 |
| 180 | 90 | 150 | 16 | **193 281 032** | 10.891 | 225 | 487 | 344 | 90 | 82 | 79 | 11-17.6 |
| 180 | 110 | 150 | 16 | **193 281 033** | 10.465 | 225 | 495 | 344 | 90 | 82 | 82 | 11-17.6 |





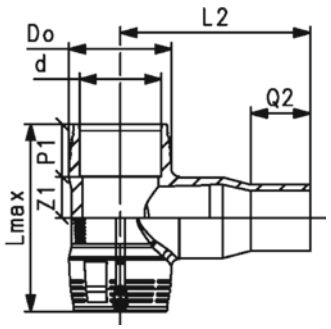

## ELGEF Plus Tee 90° reduced PE100
## d90-250mm / SDR11

- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

* Two separate fusion zones

| | d (mm) | d2 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) |
|---|---|---|---|---|---|---|
| | 110 | 90 | 100 | 16 | **753 211 034** | 1.652 |
| | 125 | 90 | 100 | 16 | **753 211 035** | 2.242 |
| | 140 | 63 | 125 | 16 | **753 901 867** | 2.879 |
| | 140 | 75 | 125 | 16 | **753 901 868** | 2.938 |
| | 140 | 90 | 125 | 16 | **753 901 869** | 3.044 |
| | 140 | 110 | 125 | 16 | **753 901 870** | 3.234 |
| | 160 | 63 | 150 | 16 | **753 211 025** | 3.737 |
| | 160 | 90 | 150 | 16 | **753 211 026** | 3.855 |
| | 160 | 110 | 150 | 16 | **753 211 027** | 3.973 |
| * | 200 | 90 | 200 | 16 | **753 211 059** | 9.012 |
| * | 200 | 110 | 200 | 16 | **753 211 060** | 12.400 |
| * | 200 | 160 | 200 | 16 | **753 211 063** | 12.400 |

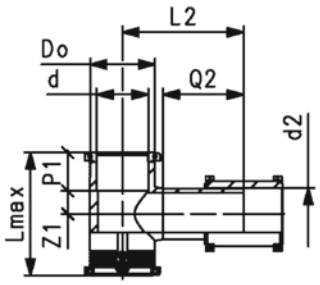
table continued on the next page




| | d (mm) | d2 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) |
|---|---|---|---|---|---|---|
| * | 225 | 90 | 200 | 16 | **753 211 069** | 13.100 |
| * | 225 | 110 | 200 | 16 | **753 211 070** | 13.100 |
| * | 225 | 160 | 200 | 16 | **753 211 073** | 13.600 |
| * | 250 | 110 | 250 | 16 | **753 211 080** | 11.660 |
| * | 250 | 160 | 250 | 16 | **753 211 083** | 17.070 |

| | d (mm) | Do (mm) | L2 (mm) | Lmax (mm) | P1 (mm) | Z1 (mm) | Q2 (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|
| | 110 | 140 | 245 | 255 | 72 | 56 | 80 | 9-17.6 |
| | 125 | 156 | 245 | 276 | 75 | 53 | 80 | 9-17.6 |
| | 140 | 185 | 220 | 300 | 83 | 67 | 80 | 9-17.6 |
| | 140 | 185 | 230 | 300 | 83 | 67 | 90 | 9-17.6 |
| | 140 | 185 | 235 | 300 | 83 | 67 | 95 | 9-17.6 |
| | 140 | 185 | 245 | 300 | 83 | 67 | 105 | 9-17.6 |
| | 160 | 208 | 178 | 330 | 89 | 76 | 63 | 11-17.6 |
| | 160 | 208 | 209 | 330 | 89 | 76 | 94 | 11-17.6 |
| | 160 | 208 | 219 | 330 | 89 | 76 | 104 | 11-17.6 |
| * | 200 | 250 | 216 | 595 | 104 | 194 | 81 | 11-26 |
| * | 200 | 250 | 219 | 600 | 104 | 194 | 84 | 11-26 |
| * | 200 | 250 | 237 | 595 | 104 | 194 | 101 | 11-26 |
| * | 225 | 280 | 228 | 666 | 112 | 217 | 80 | 11-26 |
| * | 225 | 280 | 238 | 670 | 112 | 217 | 85 | 11-26 |
| * | 225 | 280 | 258 | 667 | 112 | 217 | 105 | 11-26 |
| * | 250 | 310 | 284 | 709 | 123 | 220 | 85 | 11-26 |
| * | 250 | 310 | 266 | 711 | 123 | 220 | 101 | 11-26 |






## ELGEF Plus Tee 90° (kit) PE100
## d20-160mm / SDR11 / Equal or reduced with weldable outlet

- 10 bar Gas / 16 bar Water
- Integral pipe fixation (up to d63)
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF Plus Coupler or ELGEF Plus Reducer

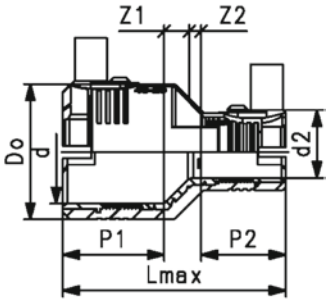
| d (mm) | d2 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | L2 (mm) | Lmax (mm) | P1 (mm) | Z1 (mm) | Q2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 20 | 15 | 16 | **753 201 606** | 0.161 | 35 | 92 | 90 | 34 | 11 | 67 |
| 25 | 25 | 20 | 16 | **753 201 607** | 0.122 | 35 | 92 | 90 | 34 | 11 | 70 |
| 32 | 32 | 25 | 16 | **753 201 608** | 0.201 | 44 | 100 | 102 | 36 | 15 | 74 |
| 40 | 32 | 32 | 16 | **193 281 006** | 0.288 | 54 | 127 | 120 | 39 | 21 | 95 |
| 40 | 40 | 32 | 16 | **753 201 609** | 0.285 | 54 | 114 | 120 | 39 | 21 | 82 |
| 50 | 32 | 40 | 16 | **193 281 007** | 0.364 | 66 | 144 | 135 | 43 | 24 | 108 |
| 50 | 40 | 40 | 16 | **193 281 008** | 0.407 | 66 | 140 | 135 | 43 | 24 | 104 |
| 50 | 50 | 40 | 16 | **753 201 610** | 0.389 | 66 | 126 | 135 | 43 | 24 | 90 |
| 63 | 32 | 50 | 16 | **193 280 997** | 0.550 | 81 | 173 | 152 | 48 | 28 | 125 |
| 63 | 40 | 50 | 16 | **193 281 009** | 0.566 | 81 | 169 | 152 | 48 | 28 | 121 |
| 63 | 50 | 50 | 16 | **193 281 010** | 0.628 | 81 | 165 | 152 | 48 | 28 | 117 |
| 63 | 63 | 50 | 16 | **753 201 611** | 0.615 | 81 | 150 | 152 | 48 | 28 | 102 |
| 90 | 63 | 80 | 16 | **193 281 011** | 1.311 | 112 | 182 | 202 | 61 | 41 | 120 |
| 90 | 90 | 80 | 16 | **753 201 613** | 1.342 | 112 | 146 | 202 | 61 | 41 | 84 |
| 110 | 90 | 100 | 16 | **193 281 012** | 2.343 | 136 | 200 | 242 | 65 | 56 | 127 |
| 110 | 110 | 100 | 16 | **753 201 614** | 2.329 | 136 | 161 | 242 | 65 | 56 | 88 |
| 125 | 90 | 100 | 16 | **193 281 013** | 3.146 | 151 | 214 | 256 | 75 | 53 | 132 |
| 125 | 125 | 100 | 16 | **753 201 615** | 2.960 | 151 | 174 | 256 | 75 | 53 | 92 |
| 160 | 110 | 150 | 16 | **193 281 030** | 7.443 | 196 | 271 | 325 | 92 | 71 | 168 |
| 160 | 160 | 150 | 16 | **753 201 617** | 6.359 | 196 | 206 | 325 | 92 | 71 | 103 |
| 180 | 125 | 150 | 16 | **193 281 031** | 9.654 | 225 | 330 | 344 | 90 | 82 | 190 |
| 180 | 180 | 150 | 16 | **753 201 618** | 8.561 | 225 | 250 | 344 | 90 | 82 | 110 |

# Reducers



## ELGEF Plus Reducer PE100
## d20-63mm / SDR11

- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- With integral pipe fixation

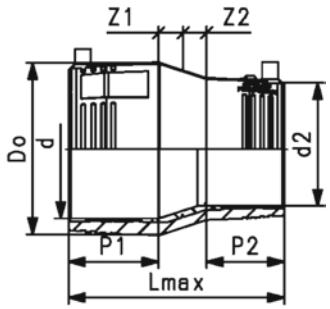



| d (mm) | d2 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | Lmax (mm) | P1 (mm) | P2 (mm) | Z1 (mm) | Z2 (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 20 | 20 | 16 | **753 901 639** | 0.051 | 35 | 74 | 34 | 34 | 3.0 | 3.0 | 9-11 |
| 32 | 20 | 25 | 16 | **753 901 640** | 0.056 | 44 | 79 | 36 | 33 | 5.0 | 5.0 | 9-11 |
| 32 | 25 | 25 | 16 | **753 901 641** | 0.062 | 44 | 79 | 36 | 33 | 5.0 | 5.0 | 9-11 |
| 40 | 20 | 32 | 16 | **753 901 644** | 0.069 | 54 | 88 | 39 | 33 | 7.5 | 7.5 | 9-11 |
| 40 | 25 | 32 | 16 | **753 901 645** | 0.084 | 54 | 88 | 39 | 33 | 7.5 | 7.5 | 9-11 |
| 40 | 32 | 32 | 16 | **753 901 646** | 0.095 | 54 | 88 | 39 | 33 | 6.5 | 6.5 | 9-11 |
| 50 | 32 | 40 | 16 | **753 901 651** | 0.124 | 66 | 96 | 43 | 35 | 9.0 | 9.0 | 9-11 |
| 50 | 40 | 40 | 16 | **753 901 652** | 0.119 | 66 | 96 | 43 | 39 | 7.0 | 7.0 | 9-11 |
| 63 | 32 | 50 | 16 | **753 901 656** | 0.158 | 81 | 105 | 48 | 35 | 11.5 | 11.5 | 9-11 |
| 63 | 40 | 50 | 16 | **753 901 657** | 0.176 | 81 | 105 | 48 | 39 | 9.5 | 9.5 | 9-11 |
| 63 | 50 | 50 | 16 | **753 901 658** | 0.176 | 81 | 105 | 48 | 43 | 7.5 | 7.5 | 9-11 |



## ELGEF Plus Reducer PE100
## d63-180mm / SDR11

- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

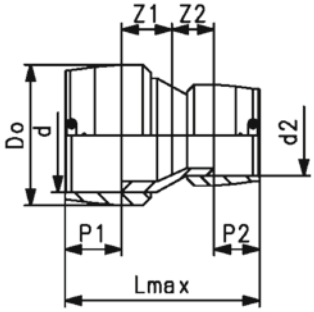



| d (mm) | d2 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | Lmax (mm) | P1 (mm) | P2 (mm) | Z1 (mm) | Z2 (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 90 | 63 | 80 | 16 | **753 901 831** | 0.385 | 113 | 146 | 63 | 47 | 18.0 | 18.0 | 9-11 |
| 110 | 63 | 100 | 16 | **753 901 832** | 0.644 | 140 | 184 | 71 | 58 | 27.5 | 27.5 | 9-11 |
| 110 | 90 | 100 | 16 | **753 901 833** | 0.700 | 138 | 173 | 73 | 63 | 19.0 | 19.0 | 9-17.6 |
| 125 | 90 | 100 | 16 | **753 901 836** | 0.891 | 152 | 194 | 77 | 62 | 27.5 | 27.5 | 9-17.6 |
| 160 | 90 | 150 | 16 | **753 901 839** | 1.600 | 202 | 227 | 90 | 72 | 32.5 | 32.5 | 9-11 |
| 160 | 110 | 150 | 16 | **753 901 864** | 1.783 | 202 | 226 | 90 | 71 | 32.5 | 32.5 | 9-17.6 |
| 180 | 125 | 150 | 16 | **753 901 865** | 2.340 | 225 | 254 | 96 | 78 | 40.0 | 40.0 | 9-17.6 |



## ELGEF Plus Reducer PE100
## d200/160-250/225mm / SDR11

- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

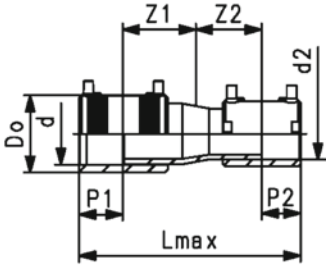



| d (mm) | d2 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | Lmax (mm) | P1 (mm) | P2 (mm) | Z1 (mm) | Z2 (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 200 | 160 | 200 | 16 | **753 901 837** | 5.098 | 250 | 365 | 104 | 90 | 85.5 | 85.5 | 11-26 |
| 225 | 160 | 200 | 16 | **753 901 838** | 6.000 | 280 | 385 | 112 | 90 | 91.5 | 91.5 | 11-26 |
| 225 | 200 | 200 | 16 | **753 901 845** | 8.200 | 280 | 390 | 112 | 104 | 86.5 | 86.5 | 11-26 |
| 250 | 160 | 250 | 16 | **753 901 840** | 7.860 | 310 | 400 | 123 | 90 | 93.5 | 93.5 | 11-26 |
| 250 | 200 | 250 | 16 | **753 901 841** | 8.480 | 310 | 417 | 123 | 104 | 100.0 | 100.0 | 11-26 |
| 250 | 225 | 250 | 16 | **753 901 842** | 8.450 | 310 | 430 | 123 | 112 | 102.0 | 102.0 | 11-26 |



### ELGEF Plus Reducer (kit) PE100
### d75/40-180/110mm / SDR11

- 10 bar Gas / 16 bar Water
- Integral pipe fixation (up to d63)
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF Plus Coupler and Spigot Reducer



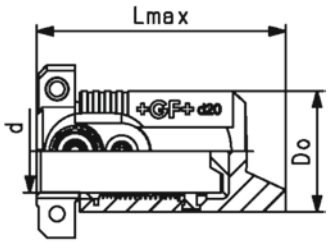

| d (mm) | d2 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | Lmax (mm) | P1 (mm) | P2 (mm) | Z1 (mm) | Z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | 40 | 65 | 16 | **193 280 992** | 0.574 | 96 | 265 | 55 | 40 | 85.0 | 85.0 |
| 75 | 50 | 65 | 16 | **193 280 993** | 0.623 | 96 | 269 | 55 | 44 | 85.0 | 85.0 |
| 75 | 63 | 65 | 16 | **193 280 994** | 0.700 | 96 | 273 | 55 | 48 | 85.0 | 85.0 |
| 90 | 50 | 80 | 16 | **193 280 958** | 0.857 | 113 | 297 | 63 | 44 | 95.0 | 95.0 |
| 90 | 75 | 80 | 16 | **193 280 995** | 1.071 | 113 | 308 | 63 | 55 | 95.0 | 95.0 |
| 110 | 75 | 100 | 16 | **193 280 996** | 1.496 | 138 | 333 | 73 | 55 | 102.5 | 102.5 |
| 125 | 63 | 100 | 16 | **193 280 953** | 1.567 | 154 | 314 | 79 | 48 | 93.5 | 93.5 |
| 125 | 110 | 100 | 16 | **193 280 951** | 2.098 | 154 | 367 | 79 | 73 | 107.5 | 107.5 |
| 160 | 125 | 150 | 16 | **193 280 952** | 3.252 | 196 | 414 | 90 | 79 | 122.5 | 122.5 |
| 180 | 110 | 150 | 16 | **193 280 959** | 4.167 | 214 | 413 | 95 | 73 | 122.5 | 122.5 |

## End caps



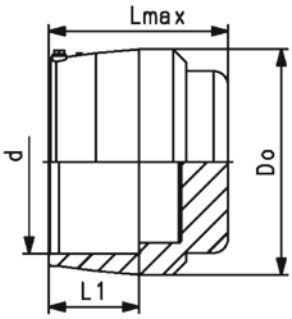
### ELGEF Plus End cap PE100
### d20-63mm / SDR11

- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- With integral pipe fixation




| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | Lmax (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|
| 20 | 15 | 16 | **753 961 606** | 0.041 | 35 | 52 | 9-11 |
| 25 | 20 | 16 | **753 961 607** | 0.046 | 35 | 52 | 9-11 |
| 32 | 25 | 16 | **753 961 608** | 0.058 | 44 | 52 | 9-11 |
| 40 | 32 | 16 | **753 961 609** | 0.064 | 54 | 56 | 9-11 |
| 50 | 40 | 16 | **753 961 610** | 0.154 | 66 | 60 | 9-11 |
| 63 | 50 | 16 | **753 961 611** | 0.142 | 81 | 66 | 9-17.6 |



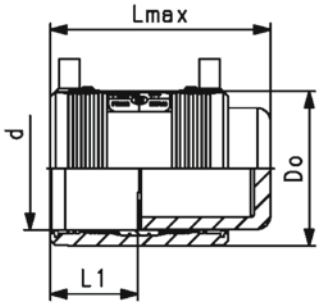



## ELGEF Plus End cap PE100
## d160-250mm / SDR11

- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | L1 (mm) | Lmax (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|
| 160 | 150 | 16 | **753 961 617** | 1.782 | 200 | 90 | 180 | 11-17.6 |
| 200 | 200 | 16 | **753 961 619** | 3.585 | 250 | 104 | 200 | 11-26 |
| 225 | 200 | 16 | **753 961 620** | 4.500 | 280 | 112 | 212 | 11-26 |
| 250 | 250 | 16 | **753 961 621** | 6.300 | 310 | 123 | 217 | 11-26 |






## ELGEF Plus End cap (kit) PE100
## d75-225mm / SDR11

- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF Plus Coupler

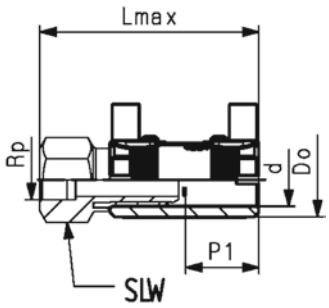
| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | L1 (mm) | Lmax (mm) |
|---|---|---|---|---|---|---|---|
| 75 | 65 | 16 | **753 961 712** | 0.446 | 96 | 53 | 135 |
| 90 | 80 | 16 | **753 961 713** | 0.663 | 113 | 60 | 153 |
| 110 | 100 | 16 | **753 961 714** | 1.090 | 133 | 70 | 171 |
| 125 | 100 | 16 | **753 961 715** | 1.345 | 155 | 75 | 184 |
| 140 | 125 | 16 | **753 961 716** | 2.250 | 175 | 80 | 170 |
| 160 | 150 | 16 | **753 961 717** | 2.382 | 197 | 87 | 180 |
| 180 | 150 | 16 | **753 961 718** | 3.098 | 220 | 95 | 225 |
| 200 | 200 | 16 | **753 961 719** | 4.180 | 245 | 102 | 208 |
| 225 | 200 | 16 | **753 961 720** | 5.852 | 296 | 110 | 224 |

# Transition fittings



## ELGEF Plus Transition coupler PE/stainless steel d20-63mm / SDR11 / Female thread Rp

- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

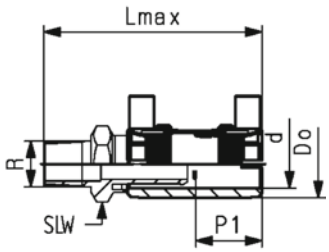



| d (mm) | Thread Type | Size (inch) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | Lmax (mm) | P1 (mm) | SLW (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | Rp | ½ | 15 | 16 | **724 920 256** | 0.179 | 31 | 100 | 34 | 30 | 9-11 |
| 25 | Rp | ¾ | 20 | 16 | **724 920 257** | 0.231 | 36 | 101 | 34 | 35 | 9-11 |
| 32 | Rp | 1 | 25 | 16 | **724 920 258** | 0.319 | 44 | 108 | 34 | 40 | 9-11 |
| 40 | Rp | 1 ¼ | 32 | 16 | **724 920 259** | 0.480 | 54 | 118 | 39 | 50 | 9-11 |
| 50 | Rp | 1 ½ | 40 | 16 | **724 920 260** | 0.646 | 66 | 126 | 43 | 60 | 9-11 |
| 63 | Rp | 2 | 50 | 16 | **724 920 261** | 0.931 | 81 | 138 | 46 | 70 | 9-17.6 |



## ELGEF Plus Transition coupler PE/stainless steel d20-63mm / SDR11 / Male thread R

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

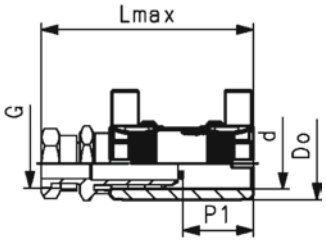



| d (mm) | Thread Type | Size (inch) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | Lmax (mm) | P1 (mm) | SLW (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | R | ½ | 15 | 16 | **724 920 756** | 0.165 | 31 | 110 | 34 | 30 | 9-11 |
| 25 | R | ¾ | 20 | 16 | **724 920 757** | 0.249 | 36 | 111 | 34 | 35 | 9-11 |
| 32 | R | 1 | 25 | 16 | **724 920 758** | 0.332 | 44 | 117 | 34 | 40 | 9-11 |
| 40 | R | 1 ¼ | 32 | 16 | **724 920 759** | 0.464 | 54 | 127 | 39 | 50 | 9-11 |
| 50 | R | 1 ½ | 40 | 16 | **724 920 760** | 0.611 | 66 | 135 | 43 | 60 | 9-11 |
| 63 | R | 2 | 50 | 16 | **724 920 761** | 0.942 | 81 | 147 | 46 | 70 | 9-17.6 |



## ELGEF Plus Transition coupler PE/brass
## d25-63mm / SDR11 / Loose nut G

- 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit
- Incl. flat gasket for water applications (KTW / WRAS approved)

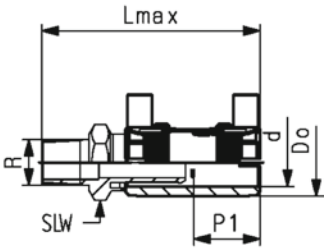



| d (mm) | Thread Type | Size (inch) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | Lmax (mm) | P1 (mm) | G (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | G | ¾ | 20 | 16 | **720 910 007** | 0.232 | 36 | 104 | 34 | 15 | 9-11 |
| 32 | G | 1 | 25 | 16 | **720 910 008** | 0.297 | 44 | 110 | 34 | 20 | 9-11 |
| 50 | G | 1 ½ | 40 | 16 | **720 910 010** | 0.736 | 66 | 133 | 43 | 29 | 9-11 |
| 63 | G | 2 | 50 | 16 | **720 910 011** | 1.251 | 81 | 145 | 46 | 36 | 9-17.6 |



## ELGEF Plus Transition coupler PE/brass
## d20-63mm / SDR11 / Male thread R

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit with ELGEF Plus coupler or *ELGEF Plus reducer

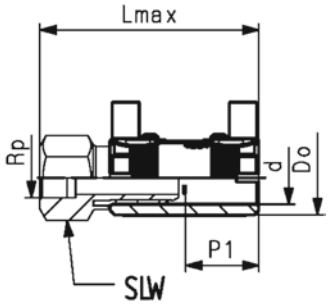



| d (mm) | Thread Type | Size (inch) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | Lmax (mm) | P1 (mm) | SLW (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | R | ½ | 15 | 16 | **720 920 756** | 0.187 | 31 | 110 | 34 | 30 | 9-11 |
| 20 | R | 1 | 15 | 16 | **720 920 754** | 0.344 | 44 | 124 | 34 | 40 | 9-11 |
| 25 | R | ¾ | 20 | 16 | **720 920 757** | 0.254 | 36 | 111 | 34 | 35 | 9-11 |
| 25 | R | 1 | 20 | 16 | **720 920 763** | 0.340 | 44 | 124 | 34 | 40 | 9-11 |
| 32 | R | ½ | 25 | 16 | **720 920 764** | 0.213 | 44 | 121 | 34 | 30 | 9-11 |
| 32 | R | ¾ | 25 | 16 | **720 920 765** | 0.268 | 44 | 122 | 34 | 35 | 9-11 |
| 32 | R | 1 | 25 | 16 | **720 920 758** | 0.340 | 44 | 117 | 34 | 40 | 9-11 |
| 32 | R | 1 ¼ | 25 | 16 | **720 920 766** | 0.489 | 54 | 135 | 34 | 50 | 9-11 |
| 32 | R | 1 ½ | 25 | 16 | **720 920 767** | 0.635 | 60 | 143 | 34 | 60 | 9-11 |
| 32 | R | 2 | 25 | 16 | **720 920 768** | 1.000 | 81 | 157 | 34 | 70 | 9-11 |
| 40 | R | 1 | 32 | 16 | **720 920 771** | 0.364 | 54 | 133 | 39 | 40 | 9-11 |
| 40 | R | 1 ¼ | 32 | 16 | **720 920 759** | 0.514 | 54 | 127 | 39 | 50 | 9-11 |
| 40 | R | 1 ½ | 32 | 16 | **720 920 772** | 0.645 | 66 | 143 | 39 | 60 | 9-11 |
| 40 | R | 2 | 32 | 16 | **720 920 773** | 0.961 | 81 | 157 | 39 | 70 | 9-11 |
| 50 | R | 1 | 40 | 16 | **720 920 776** | 0.367 | 66 | 141 | 43 | 40 | 9-11 |
| 50 | R | 1 ¼ | 40 | 16 | **720 920 777** | 0.554 | 66 | 143 | 43 | 50 | 9-11 |
| 50 | R | 1 ½ | 40 | 16 | **720 920 760** | 0.652 | 66 | 135 | 43 | 60 | 9-11 |
| 50 | R | 2 | 40 | 16 | **720 920 778** | 0.971 | 81 | 157 | 43 | 70 | 9-11 |
| 63 | R | 1 | 50 | 16 | **720 920 781** | 0.441 | 81 | 151 | 46 | 40 | 9-11 |
| 63 | R | 1 ¼ | 50 | 16 | **720 920 782** | 0.600 | 81 | 153 | 46 | 40 | 9-11 |
| 63 | R | 1 ½ | 50 | 16 | **720 920 783** | 0.712 | 81 | 153 | 46 | 60 | 9-17.6 |
| 63 | R | 2 | 50 | 16 | **720 920 761** | 0.943 | 81 | 147 | 46 | 70 | 9-17.6 |



## ELGEF Plus Transition coupler PE/brass
## d32-63mm / SDR11 / Female thread Rp

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

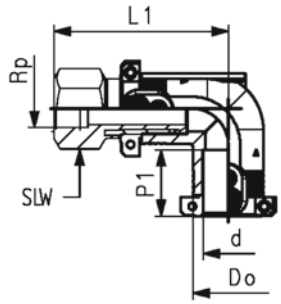



| d (mm) | Thread Type | Size (inch) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | Lmax (mm) | P1 (mm) | SLW (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 32 | Rp | 1 | 25 | 16 | **720 920 258** | 0.306 | 44 | 108 | 34 | 40 |
| 40 | Rp | 1 ¼ | 32 | 16 | **720 920 259** | 0.496 | 54 | 118 | 39 | 50 |
| 50 | Rp | 1 ½ | 40 | 16 | **720 920 260** | 0.725 | 66 | 126 | 43 | 60 |
| 63 | Rp | 1 | 50 | 16 | **720 920 281** | 1.300 | 81 | 138 | 46 | 70 |
| 63 | Rp | 1 ¼ | 50 | 16 | **720 920 282** | 1.230 | 81 | 138 | 46 | 70 |
| 63 | Rp | 1 ½ | 50 | 16 | **720 920 283** | 1.134 | 81 | 138 | 46 | 70 |
| 63 | Rp | 2 | 50 | 16 | **720 920 261** | 1.057 | 81 | 138 | 46 | 70 |



## ELGEF Plus Transition elbow 90° PE/stainless steel
## d20-63mm / SDR11 / Female thread Rp

- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

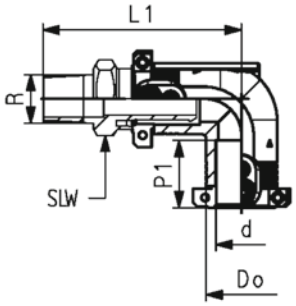



| d (mm) | DN (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | Do (mm) | L1 (mm) | P1 (mm) | SLW (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 15 | Rp | ½ | 16 | **724 100 256** | 0.211 | 31 | 86 | 32 | 30 | 9-11 |
| 25 | 20 | Rp | ¾ | 16 | **724 100 257** | 0.237 | 36 | 87 | 32 | 35 | 9-11 |
| 32 | 25 | Rp | 1 | 16 | **724 100 258** | 0.320 | 44 | 89 | 34 | 40 | 9-11 |
| 40 | 32 | Rp | 1 ¼ | 16 | **724 100 259** | 0.545 | 54 | 100 | 38 | 50 | 9-11 |
| 50 | 40 | Rp | 1 ½ | 16 | **724 100 260** | 0.805 | 66 | 109 | 42 | 60 | 9-11 |
| 63 | 50 | Rp | 2 | 16 | **724 100 261** | 1.020 | 81 | 123 | 46 | 70 | 9-17.6 |



## ELGEF Plus Transition elbow 90° PE/stainless steel
## d20-63mm / SDR11 / Male thread R

- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

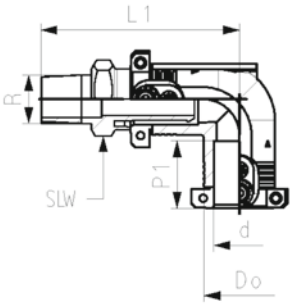



| d (mm) | Thread Type | Size (inch) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | L1 (mm) | P1 (mm) | SLW (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | R | ½ | 15 | 16 | **724 100 756** | 0.211 | 31 | 96 | 32 | 30 | 9-11 |
| 25 | R | ¾ | 20 | 16 | **724 100 757** | 0.230 | 36 | 97 | 32 | 35 | 9-11 |
| 32 | R | 1 | 25 | 16 | **724 100 758** | 0.324 | 44 | 98 | 34 | 40 | 9-11 |
| 40 | R | 1 ¼ | 32 | 16 | **724 100 759** | 0.560 | 54 | 109 | 38 | 50 | 9-11 |
| 50 | R | 1 ½ | 40 | 16 | **724 100 760** | 0.701 | 66 | 118 | 42 | 60 | 9-11 |
| 63 | R | 2 | 50 | 16 | **724 100 761** | 1.105 | 81 | 132 | 46 | 70 | 9-17.6 |

## ELGEF Plus Transition elbow 90° PE/brass
## d20-63mm / SDR11 / Male thread R



- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

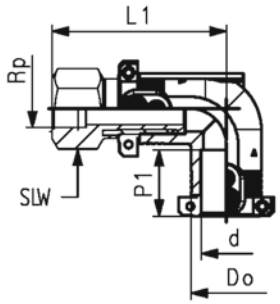



| d (mm) | Thread Type | Size (inch) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | L1 (mm) | P1 (mm) | SLW (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | R | ½ | 15 | 16 | **720 100 756** | 0.240 | 31 | 96 | 32 | 30 | 9-11 |
| 25 | R | ¾ | 20 | 16 | **720 100 757** | 0.260 | 36 | 97 | 32 | 35 | 9-11 |
| 32 | R | 1 | 25 | 16 | **720 100 758** | 0.368 | 44 | 98 | 34 | 40 | 9-11 |
| 32 | R | 1 ¼ | 25 | 16 | **720 100 766** | 0.500 | 44 | 100 | 34 | 50 | 9-11 |
| 32 | R | 1 ½ | 25 | 16 | **720 100 767** | 0.562 | 44 | 100 | 34 | 60 | 9-11 |
| 40 | R | 1 | 32 | 16 | **720 100 771** | 0.511 | 54 | 107 | 38 | 50 | 9-11 |
| 40 | R | 1 ¼ | 32 | 16 | **720 100 759** | 0.534 | 54 | 109 | 38 | 50 | 9-11 |
| 40 | R | 1 ½ | 32 | 16 | **720 100 772** | 0.615 | 54 | 109 | 38 | 60 | 9-11 |
| 50 | R | 1 | 40 | 16 | **720 100 776** | 0.677 | 66 | 116 | 42 | 60 | 9-11 |
| 50 | R | 1 ¼ | 40 | 16 | **720 100 777** | 0.771 | 66 | 118 | 42 | 60 | 9-11 |
| 50 | R | 1 ½ | 40 | 16 | **720 100 760** | 0.734 | 66 | 118 | 42 | 60 | 9-11 |
| 63 | R | 1 ¼ | 50 | 16 | **720 100 782** | 1.040 | 81 | 128 | 46 | 70 | 9-17.6 |
| 63 | R | 1 ½ | 50 | 16 | **720 100 783** | 1.039 | 81 | 128 | 46 | 70 | 9-17.6 |
| 63 | R | 2 | 50 | 16 | **720 100 761** | 1.108 | 81 | 132 | 46 | 70 | 9-17.6 |

## ELGEF Plus Transition elbow 90° PE/brass
## d32-63mm / SDR11 /Female thread Rp

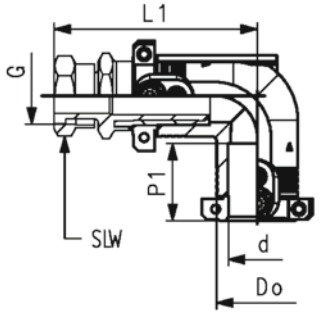


- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit




| d (mm) | Thread Type | Size (inch) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | L1 (mm) | P1 (mm) | SLW (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | Rp | 1 | 25 | 16 | **720 100 258** | 0.359 | 44 | 89 | 34 | 40 | 9-11 |
| 40 | Rp | 1 ¼ | 32 | 16 | **720 100 259** | 0.525 | 54 | 100 | 38 | 50 | 9-11 |
| 50 | Rp | 1 ½ | 40 | 16 | **720 100 260** | 0.825 | 66 | 109 | 42 | 60 | 9-11 |
| 63 | Rp | 1 | 50 | 16 | **720 100 281** | 1.420 | 81 | 123 | 46 | 70 | 9-11 |
| 63 | Rp | 1 ¼ | 50 | 16 | **720 100 282** | 1.391 | 81 | 123 | 46 | 70 | 9-17.6 |
| 63 | Rp | 1 ½ | 50 | 16 | **720 100 283** | 1.305 | 81 | 123 | 46 | 70 | 9-17.6 |
| 63 | Rp | 2 | 50 | 16 | **720 100 261** | 1.165 | 81 | 123 | 46 | 70 | 9-17.6 |






### ELGEF Plus Transition elbow 90° PE/brass
### d25-63mm / SDR11 / Loose nut G

- **PE 100 SDR 11** (ISO S5)
- 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit
- Incl. flat gasket for water applications (KTW / WRAS approved)

| d (mm) | Thread Type | Size (inch) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | L1 (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|
| 25 | Rp | ¾ | 20 | 16 | **720 100 007** | 0.240 | 36 | 90 | 9-11 |
| 32 | Rp | 1 | 25 | 16 | **720 100 008** | 0.347 | 44 | 91 | 9-11 |
| 50 | Rp | 1 ½ | 40 | 16 | **720 100 010** | 0.850 | 66 | 116 | 9-11 |
| 63 | Rp | 1 | 50 | 16 | **720 100 021** | 1.114 | 81 | 121 | 9-17.6 |
| 63 | Rp | 2 | 50 | 16 | **720 100 011** | 1.375 | 81 | 129 | 9-17.6 |

## Accessories



### Degreasing Tissues

- For degreasing the PE pipe surface prior to fusion

| Description | Code | Weight (kg) |
|---|---|---|
| For pipes up to d225 mm | **799 496 011** | 0.008 |

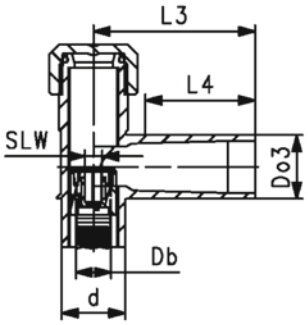


### Marker

| Type | Code | Weight (kg) |
|---|---|---|
| silver | **799 350 364** | 0.010 |

# ELGEF Plus saddles
## Modular system





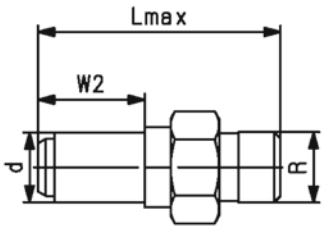

### ELGEF Plus Tapping tee PE100
### d63mm / SDR11

- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Long fusion outlet
- O-ring-sealed screw cap
- For ELGEF Plus Branch Saddle d63-225mm, pipe SDR11
- For ELGEF Plus Branch Saddle d110-315mm, pipe SDR17

* For ELGEF Plus Branch Saddle d250-315mm, pipe SDR 11 and d250-400mm, pipe SDR 17
** For ELGEF Plus Branch Saddle d110-225mm, pipe SDR 11 and d110-315m, pipe SDR 17

| | d (mm) | Do3 (mm) | DN (mm) | PN (bar) | SDR | Code | Weight (kg) | L3 (mm) | L4 (mm) | Db (mm) | SLW (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 63 | 20 | 50 | 16 | 11 | **193 280 358** | 0.380 | 130 | 69 | 32 | 17 |
| | 63 | 25 | 50 | 16 | 11 | **193 280 359** | 0.375 | 130 | 70 | 32 | 17 |
| | 63 | 32 | 50 | 16 | 11 | **193 280 184** | 0.400 | 130 | 76 | 32 | 17 |
| | 63 | 40 | 50 | 16 | 11 | **193 280 360** | 0.396 | 137 | 81 | 32 | 17 |
| | 63 | 63 | 50 | 16 | 11 | **193 280 185** | 0.687 | 160 | 100 | 35 | 17 |
| * | 63 | 63 | 50 | 16 | 11 | **193 280 711** | 1.120 | 160 | 100 | 35 | 17 |
| ** | 63 | 63 | 50 | 16 | 11 | **193 280 290** | 1.086 | 160 | 100 | 41 | 17 |






### ELGEF Plus Transition adapter PE/brass
### d20-63mm / SDR11 / Male thread R

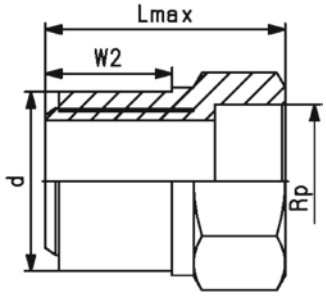
- 10 bar Gas / 16 bar Water
- Only for ELGEF Plus Couplers and Fittings

| d (mm) | Thread Type | R (inch) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | W2 (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | R | ½ | 15 | 16 | **720 920 706** | 0.133 | 75 | 33 |
| 25 | R | ¾ | 20 | 16 | **720 920 707** | 0.182 | 76 | 33 |
| 32 | R | 1 | 25 | 16 | **720 920 708** | 0.257 | 80 | 35 |
| 32 | R | 1 ¼ | 25 | 16 | **720 920 718** | 0.370 | 82 | 35 |
| 32 | R | 1 ½ | 25 | 16 | **720 920 728** | 0.437 | 82 | 35 |
| 40 | R | 1 | 32 | 16 | **720 920 719** | 0.358 | 84 | 39 |
| 40 | R | 1 ¼ | 32 | 16 | **720 920 709** | 0.405 | 86 | 39 |
| 40 | R | 1 ½ | 32 | 16 | **720 920 729** | 0.454 | 86 | 39 |
| 50 | R | 1 | 40 | 16 | **720 920 720** | 0.505 | 88 | 43 |
| 50 | R | 1 ¼ | 40 | 16 | **720 920 730** | 0.539 | 90 | 43 |
| 50 | R | 1 ½ | 40 | 16 | **720 920 710** | 0.514 | 90 | 43 |
| 63 | R | 1 ¼ | 50 | 16 | **720 920 721** | 0.739 | 94 | 47 |
| 63 | R | 1 ½ | 50 | 16 | **720 920 731** | 0.709 | 94 | 47 |
| 63 | R | 2 | 50 | 16 | **720 920 711** | 0.762 | 98 | 47 |



## ELGEF Plus Transition adapter PE/brass d25-63mm / SDR11 / Female thread Rp

- 10 bar Gas / 16 bar Water
- Only for ELGEF Plus Couplers and Fittings

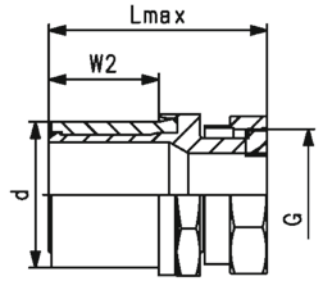



| d (mm) | Thread Type | Rp (inch) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | W2 (mm) |
|---|---|---|---|---|---|---|---|---|
| 25 | Rp | ¾ | 20 | 16 | **720 920 207** | 0.181 | 66 | 33 |
| 32 | Rp | 1 | 25 | 16 | **720 920 208** | 0.246 | 71 | 35 |
| 40 | Rp | 1 ¼ | 32 | 16 | **720 920 209** | 0.386 | 77 | 39 |
| 50 | Rp | 1 ½ | 40 | 16 | **720 920 210** | 0.520 | 81 | 43 |
| 63 | Rp | 1 | 50 | 16 | **720 920 221** | 0.780 | 83 | 47 |
| 63 | Rp | 1 ¼ | 50 | 16 | **720 920 231** | 1.062 | 85 | 47 |
| 63 | Rp | 1 ½ | 50 | 16 | **720 920 241** | 0.740 | 85 | 47 |
| 63 | Rp | 2 | 50 | 16 | **720 920 211** | 0.729 | 89 | 47 |



## ELGEF Plus Transition adapter PE/brass d25-63mm / SDR11 / Loose nut G

- 16 bar Water
- Only for ELGEF Plus Couplers and Fittings
- Incl. flat gasket for water applications (KTW / WRAS approved)

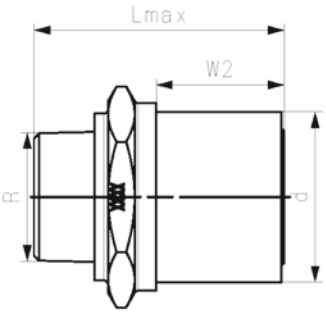



| d (mm) | Thread Type | Size (inch) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | G (mm) | W2 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 25 | G | ¾ | 20 | 16 | **720 920 007** | 0.152 | 68 | 15 | 32 |
| 32 | G | 1 | 25 | 16 | **720 920 008** | 0.235 | 72 | 20 | 34 |
| 50 | G | 1 ½ | 40 | 16 | **720 920 010** | 0.584 | 87 | 29 | 42 |
| 63 | G | 1 | 50 | 16 | **720 920 021** | 0.804 | 87 | 20 | 46 |
| 63 | G | 2 | 50 | 16 | **720 920 011** | 1.018 | 95 | 36 | 46 |



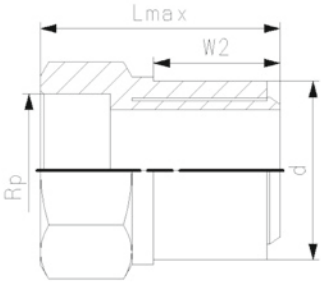
## ELGEF Plus Transition adapter PE/stainless steel d20-63mm / SDR11 / Male thread R

- 10 bar Gas / 16 bar Water
- Only for ELGEF Plus Couplers and Fittings
- Stainless steel V2A (1.4305)




| d (mm) | Thread Type | R (inch) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | W2 (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | R | ½ | 15 | 16 | **724 920 706** | 0.120 | 75 | 33 |
| 25 | R | ¾ | 20 | 16 | **724 920 707** | 0.179 | 76 | 33 |
| 32 | R | 1 | 25 | 16 | **724 920 708** | 0.244 | 80 | 35 |
| 40 | R | 1 ¼ | 32 | 16 | **724 920 709** | 0.380 | 86 | 39 |
| 50 | R | 1 ½ | 40 | 16 | **724 920 710** | 0.478 | 90 | 43 |
| 63 | R | 1 ½ | 50 | 16 | **724 920 721** | 0.653 | 98 | 47 |
| 63 | R | 2 | 50 | 16 | **724 920 711** | 0.722 | 98 | 47 |



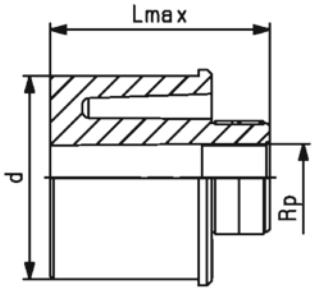



## ELGEF Plus Transition adapter PE/stainless steel d20-63mm / SDR11 / Female thread Rp

- 10 bar Gas / 16 bar Water
- Only for ELGEF Plus Couplers and Fittings
- Stainless steel V2A (1.4305)

| d (mm) | Thread Type | Rp (inch) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | W2 (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | Rp | ½ | 15 | 16 | **724 920 206** | 0.128 | 65 | 33 |
| 25 | Rp | ¾ | 20 | 16 | **724 920 207** | 0.181 | 66 | 33 |
| 32 | Rp | 1 | 25 | 16 | **724 920 208** | 0.237 | 71 | 35 |
| 40 | Rp | 1 ¼ | 32 | 16 | **724 920 209** | 0.373 | 77 | 39 |
| 50 | Rp | 1 ½ | 40 | 16 | **724 920 210** | 0.527 | 81 | 43 |
| 63 | Rp | 2 | 50 | 16 | **724 920 211** | 0.733 | 89 | 47 |



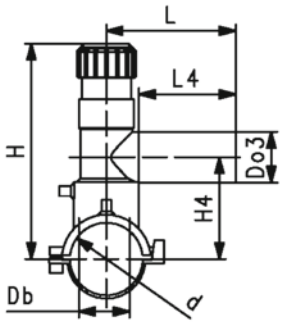


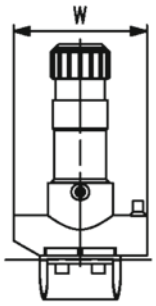

## ELGEF Plus Adapter PE100 d63mm / SDR11 / Female thread Rp

- 5 bar Gas / 16 bar Water
- Connection to plastic or metal
- Reinforcing ring stainless (A2)
- For ELGEF Plus Branch Saddle d63-400mm, pipe SDR11; d110-400mm, pipe SDR17
- Parallel female thread

| d (mm) | Thread Type | Rp (inch) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) |
|---|---|---|---|---|---|---|---|
| 63 | Rp | ½ | 50 | 16.0 | **193 281 617** | 0.130 | 68 |





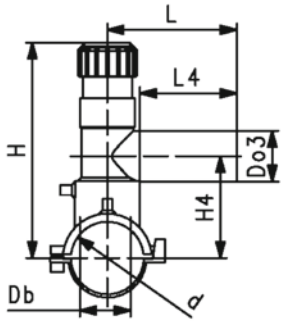

## ELGEF Plus Tapping saddle PE100
## d63-400mm/ SDR11 / With 360° rotatable outlet

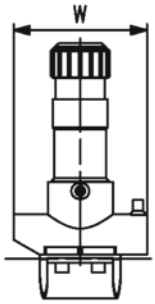
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring-sealed screw cap
- d355-400mm. Not suitable for pipes if wall thickness is larger than SDR17 pipes.

* Topload: delivery without lower part for assembling as Topload with tool no. 799.350.477; angle adaptor (799.350.340) for fusion cable required

| | d (mm) | Do3 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) |
|---|---|---|---|---|---|---|
| | 63 | 20 | 50 | 16 | **193 131 402** | 0.697 |
| | 63 | 25 | 50 | 16 | **193 131 403** | 0.637 |
| | 63 | 32 | 50 | 16 | **193 131 404** | 0.701 |
| | 63 | 40 | 50 | 16 | **193 131 405** | 0.718 |
| | 63 | 63 | 50 | 16 | **193 131 437** | 1.426 |
| | 75 | 20 | 65 | 16 | **193 131 442** | 0.831 |
| | 75 | 25 | 65 | 16 | **193 131 443** | 0.830 |
| | 75 | 32 | 65 | 16 | **193 131 444** | 0.812 |
| | 75 | 40 | 65 | 16 | **193 131 445** | 0.849 |
| | 75 | 63 | 65 | 16 | **193 131 447** | 1.549 |
| | 90 | 20 | 80 | 16 | **193 131 452** | 0.794 |
| | 90 | 25 | 80 | 16 | **193 131 453** | 0.790 |
| | 90 | 32 | 80 | 16 | **193 131 454** | 0.770 |
| | 90 | 40 | 80 | 16 | **193 131 455** | 0.811 |
| | 90 | 63 | 80 | 16 | **193 131 457** | 1.494 |
| | 110 | 20 | 100 | 16 | **193 131 462** | 0.826 |
| | 110 | 25 | 100 | 16 | **193 131 463** | 0.808 |
| | 110 | 32 | 100 | 16 | **193 131 464** | 0.831 |
| | 110 | 40 | 100 | 16 | **193 131 465** | 0.805 |
| | 110 | 63 | 100 | 16 | **193 131 467** | 1.097 |
| | 125 | 20 | 100 | 16 | **193 131 472** | 0.880 |
| | 125 | 25 | 100 | 16 | **193 131 473** | 0.878 |
| | 125 | 32 | 100 | 16 | **193 131 474** | 0.878 |
| | 125 | 40 | 100 | 16 | **193 131 475** | 0.874 |
| | 125 | 63 | 100 | 16 | **193 131 477** | 1.184 |
| | 140 | 20 | 125 | 16 | **193 131 482** | 0.887 |
| | 140 | 25 | 125 | 16 | **193 131 483** | 0.874 |
| | 140 | 32 | 125 | 16 | **193 131 484** | 0.894 |
| | 140 | 40 | 125 | 16 | **193 131 485** | 0.920 |
| | 140 | 63 | 125 | 16 | **193 131 487** | 1.180 |
| | 160 | 20 | 150 | 16 | **193 131 492** | 0.916 |
| | 160 | 25 | 150 | 16 | **193 131 493** | 0.912 |
| | 160 | 32 | 150 | 16 | **193 131 494** | 0.915 |
| | 160 | 40 | 150 | 16 | **193 131 495** | 0.936 |
| | 160 | 63 | 150 | 16 | **193 131 497** | 1.221 |
| | 180 | 20 | 150 | 16 | **193 131 502** | 0.994 |
| | 180 | 25 | 150 | 16 | **193 131 503** | 1.001 |
| | 180 | 32 | 150 | 16 | **193 131 504** | 0.957 |
| | 180 | 40 | 150 | 16 | **193 131 505** | 1.007 |
| | 180 | 63 | 150 | 16 | **193 131 507** | 1.587 |
| | 200 | 20 | 200 | 16 | **193 131 512** | 1.015 |
| | 200 | 25 | 200 | 16 | **193 131 513** | 1.015 |
| | 200 | 32 | 200 | 16 | **193 131 514** | 0.985 |
| | 200 | 40 | 200 | 16 | **193 131 515** | 1.024 |
| | 200 | 63 | 200 | 16 | **193 131 517** | 1.290 |
| | 225 | 20 | 200 | 16 | **193 131 522** | 1.016 |
| | 225 | 25 | 200 | 16 | **193 131 523** | 1.025 |

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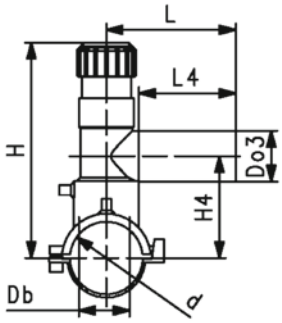


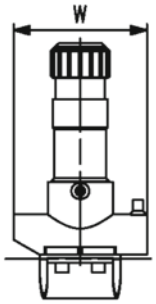




| | d (mm) | Do3 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) |
|---|---|---|---|---|---|---|
| | 225 | 32 | 200 | 16 | **193 131 524** | 1.019 |
| | 225 | 40 | 200 | 16 | **193 131 525** | 1.029 |
| | 225 | 63 | 200 | 16 | **193 131 527** | 1.738 |
| | 250 | 20 | 250 | 16 | **193 131 532** | 1.025 |
| | 250 | 25 | 250 | 16 | **193 131 533** | 1.026 |
| | 250 | 32 | 250 | 16 | **193 131 534** | 0.996 |
| | 250 | 63 | 250 | 16 | **193 131 537** | 1.733 |
| | 250 | 40 | 250 | 16 | **193 131 535** | 1.008 |
| | 280 | 63 | 250 | 16 | **193 131 548** | 1.478 |
| | 315 | 63 | 300 | 16 | **193 131 558** | 1.481 |
| Topload | 355 | 63 | 350 | 16 | **193 131 557** | 1.481 |
| Topload | 400 | 63 | 400 | 16 | **193 131 577** | 1.473 |

| | d (mm) | Do3 (mm) | L (mm) | L4 (mm) | Db (mm) | W (mm) | H (mm) | H4 (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|
| | 63 | 20 | 130 | 71 | 32 | 164 | 186 | 108 | 9 - 11 |
| | 63 | 25 | 130 | 71 | 32 | 164 | 186 | 108 | 9 - 11 |
| | 63 | 32 | 130 | 76 | 32 | 164 | 186 | 108 | 9 - 11 |
| | 63 | 40 | 137 | 81 | 32 | 164 | 186 | 108 | 9 - 11 |
| | 63 | 63 | 160 | 100 | 32 | 164 | 134 | 112 | 9 - 11 |
| | 75 | 20 | 130 | 71 | 32 | 164 | 191 | 113 | 9 - 11 |
| | 75 | 25 | 130 | 71 | 32 | 164 | 191 | 113 | 9 - 11 |
| | 75 | 32 | 130 | 76 | 32 | 164 | 191 | 113 | 9 - 11 |
| | 75 | 40 | 137 | 81 | 32 | 164 | 191 | 113 | 9 - 11 |
| | 75 | 63 | 160 | 100 | 32 | 164 | 240 | 118 | 9 - 11 |
| | 90 | 20 | 130 | 71 | 32 | 164 | 199 | 121 | 9 - 11 |
| | 90 | 25 | 130 | 71 | 32 | 164 | 199 | 121 | 9 - 11 |
| | 90 | 32 | 130 | 76 | 32 | 164 | 199 | 121 | 9 - 11 |
| | 90 | 40 | 137 | 81 | 32 | 164 | 199 | 121 | 9 - 11 |
| | 90 | 63 | 160 | 100 | 35 | 164 | 248 | 126 | 9 - 11 |
| | 110 | 20 | 130 | 71 | 32 | 164 | 209 | 131 | 9 - 17.6 |
| | 110 | 25 | 130 | 71 | 32 | 164 | 209 | 131 | 9 - 17.6 |
| | 110 | 32 | 130 | 76 | 32 | 164 | 209 | 131 | 9 - 17.6 |
| | 110 | 40 | 137 | 81 | 32 | 164 | 209 | 131 | 9 - 17.6 |
| | 110 | 63 | 160 | 100 | 35 | 164 | 258 | 136 | 9 - 17.6 |
| | 125 | 20 | 130 | 71 | 32 | 164 | 216 | 138 | 9 - 17.6 |
| | 125 | 25 | 130 | 71 | 32 | 164 | 216 | 138 | 9 - 17.6 |
| | 125 | 32 | 130 | 76 | 32 | 164 | 216 | 138 | 9 - 17.6 |
| | 125 | 40 | 137 | 81 | 32 | 164 | 216 | 138 | 9 - 17.6 |
| | 125 | 63 | 160 | 100 | 35 | 164 | 265 | 143 | 9 - 17.6 |
| | 140 | 20 | 130 | 71 | 32 | 164 | 233 | 146 | 9 - 17.6 |
| | 140 | 25 | 130 | 71 | 32 | 164 | 233 | 146 | 9 - 17.6 |
| | 140 | 32 | 130 | 76 | 32 | 164 | 233 | 146 | 9 - 17.6 |
| | 140 | 40 | 137 | 81 | 32 | 164 | 233 | 146 | 9 - 17.6 |
| | 140 | 63 | 160 | 100 | 35 | 164 | 273 | 151 | 9 - 17.6 |
| | 160 | 20 | 130 | 71 | 32 | 164 | 243 | 156 | 9 - 17.6 |
| | 160 | 25 | 130 | 71 | 32 | 164 | 243 | 156 | 9 - 17.6 |
| | 160 | 32 | 130 | 76 | 32 | 164 | 243 | 156 | 9 - 17.6 |
| | 160 | 40 | 137 | 81 | 32 | 164 | 243 | 156 | 9 - 17.6 |
| | 160 | 63 | 160 | 100 | 35 | 164 | 283 | 161 | 9 - 17.6 |
| | 180 | 20 | 130 | 71 | 32 | 164 | 244 | 166 | 9 - 26 |
| | 180 | 25 | 130 | 71 | 32 | 164 | 244 | 166 | 9 - 26 |
| | 180 | 32 | 130 | 76 | 32 | 164 | 244 | 166 | 9 - 26 |
| | 180 | 40 | 137 | 81 | 32 | 164 | 244 | 166 | 9 - 26 |
| | 180 | 63 | 160 | 100 | 35 | 164 | 293 | 171 | 9 - 26 |
| | 200 | 20 | 130 | 71 | 32 | 164 | 254 | 176 | 9 - 26 |
| | 200 | 25 | 130 | 71 | 32 | 164 | 254 | 176 | 9 - 26 |
| | 200 | 32 | 130 | 76 | 32 | 164 | 254 | 176 | 9 - 26 |
| | 200 | 40 | 137 | 81 | 32 | 164 | 254 | 176 | 9 - 26 |
| | 200 | 63 | 160 | 100 | 35 | 164 | 303 | 181 | 9 - 26 |
| | 225 | 20 | 130 | 71 | 32 | 164 | 266 | 188 | 11 - 26 |
| | 225 | 25 | 130 | 71 | 32 | 164 | 266 | 188 | 11 - 26 |
| | 225 | 32 | 130 | 76 | 32 | 164 | 266 | 188 | 11 - 26 |

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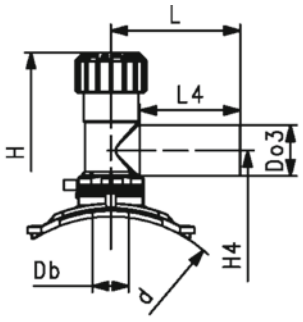

| | d (mm) | Do3 (mm) | L (mm) | L4 (mm) | Db (mm) | W (mm) | H (mm) | H4 (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|
| | 225 | 40 | 137 | 81 | 32 | 164 | 266 | 188 | 11 - 26 |
| | 225 | 63 | 160 | 100 | 35 | 164 | 315 | 193 | 11 -26 |
| | 250 | 20 | 130 | 76 | 32 | 164 | 279 | 201 | 11 - 26 |
| | 250 | 25 | 130 | 76 | 32 | 164 | 279 | 201 | 11 - 26 |
| | 250 | 32 | 130 | 76 | 32 | 164 | 279 | 201 | 11 - 26 |
| | 250 | 63 | 160 | 100 | 35 | 164 | 328 | 206 | 11 - 26 |
| | 250 | 40 | 137 | 81 | 32 | 164 | 279 | 201 | 11 - 26 |
| | 280 | 63 | 160 | 100 | 35 | 164 | 343 | 206 | 11 - 26 |
| | 315 | 63 | 160 | 100 | 35 | 164 | 381 | 206 | 11 - 33 |
| Topload | 355 | 63 | 160 | 100 | 35 | 165 | 381 | 206 | 17 - 33 |
| Topload | 400 | 63 | 160 | 100 | 35 | 165 | 403 | 206 | 17 - 33 |

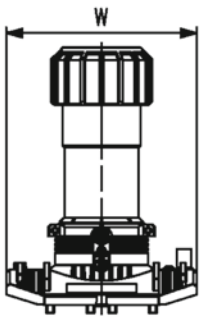


## ELGEF Plus Tapping saddle PE100
## d315-400mm / SDR11 / With 360° rotatable outlet

- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- **Suitable to tap SDR11 pipes**
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring-sealed screw cap

* Topload: delivery without lower part for assembling as Topload with tool no. 799.350.477; angleadaptor (799.350.340) for fusion cable required




| | d (mm) | Do3 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) |
|---|---|---|---|---|---|---|
| | 315 | 63 | 300 | 16 | **193 131 868** | 1.473 |
| * | 355 | 63 | 350 | 16 | **193 131 867** | 1.473 |
| * | 400 | 63 | 400 | 16 | **193 131 877** | 1.473 |

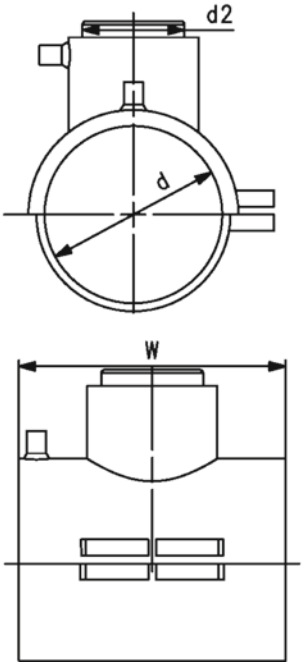
| L (mm) | L4 (mm) | Db (mm) | W (mm) | H (mm) | H4 (mm) | SDR pipe |
|---|---|---|---|---|---|---|
| 160 | 100 | 33 | 164 | 328 | 206 | 11 - 33 |
| 160 | 100 | 33 | 165 | 328 | 206 | 11 - 33 |
| 160 | 100 | 33 | 165 | 328 | 206 | 11 - 33 |



### ELGEF Plus Repair saddle PE100
### d63-400mm / SDR11

- 10 bar Gas / 16 bar Water
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including Spigot Cap (753.961.011)

* Topload: delivery without lower part for assembling as Topload with tool no. 799.350.477; angleadaptor (799.350.340) for fusion cable required




| | d (mm) | d2 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | W (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|
| | 63 | 63 | 50 | 16 | **193 130 037** | 0.417 | 164 | 9 - 11 |
| | 75 | 63 | 65 | 16 | **193 130 047** | 0.574 | 164 | 9 - 11 |
| | 90 | 63 | 80 | 16 | **193 130 057** | 0.513 | 164 | 9 - 11 |
| | 110 | 63 | 100 | 16 | **193 130 067** | 0.565 | 164 | 9 - 17.6 |
| | 125 | 63 | 100 | 16 | **193 130 077** | 0.622 | 164 | 9 - 17.6 |
| | 140 | 63 | 125 | 16 | **193 130 087** | 0.660 | 164 | 9 - 17.6 |
| | 160 | 63 | 150 | 16 | **193 130 097** | 0.589 | 164 | 9 - 17.6 |
| | 180 | 63 | 150 | 16 | **193 130 107** | 0.733 | 164 | 9 - 26 |
| | 200 | 63 | 200 | 16 | **193 130 117** | 0.731 | 164 | 9 - 26 |
| | 225 | 63 | 200 | 16 | **193 130 127** | 0.708 | 164 | 9 - 26 |
| | 250 | 63 | 250 | 16 | **193 130 137** | 0.640 | 164 | 9 - 26 |
| | 280 | 63 | 250 | 16 | **193 130 148** | 0.450 | 164 | 9 - 26 |
| | 315 | 63 | 300 | 16 | **193 130 158** | 0.443 | 164 | 9 - 33 |
| * | 355 | 63 | 350 | 16 | **193 130 157** | 0.443 | 165 | 9 - 33 |
| * | 400 | 63 | 400 | 16 | **193 130 177** | 0.450 | 165 | 9 - 33 |

# ELGEF Plus branch saddle

## Branch saddles

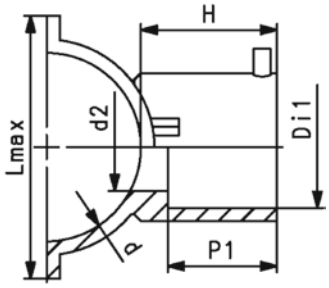


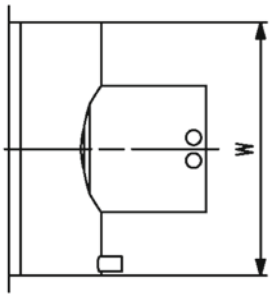
### ELGEF Plus Cross connection
### d110-250mm / For connection of 2 branch saddles as a cross

- Enables the connection of two Branch Saddle as a cross
- Complete with screws, flat washers and nuts

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 110 - 160 | **193 280 880** | 0.268 |
| 180 - 250 | **193 280 881** | 0.282 |






## ELGEF Plus Branch saddle PE100
## d110-d250mm / SDR11 / Outlet d90-d125 mm

- 10 bar Gas / 16 bar Water
- Branch Saddle complete, incl. lower part and 3 screws
- Additional fixing with snatch hinge
- Electrofusion outlet with integrated pipe fixation
- Protected wire without medium contact
- 4 mm pin connectors
- Limited path fusion indicators
- FM 1613 approved - 15 bar

* Delivered without lower part. Pipe fixation with multiple use assembly tool no. 193.281.027

| | d (mm) | d2 (mm) | Di1 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | P1 (mm) | W (mm) | H (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 110 | 65 | 90 | 100 | 16 | **193 135 009** | 1.124 | 164 | 82 | 220 | 101 | 9-11 |
| | 110 | 65 | 110 | 100 | 16 | **193 135 010** | 1.224 | 164 | 88 | 220 | 107 | 9-11 |
| | 125 | 65 | 90 | 100 | 16 | **193 135 019** | 1.134 | 179 | 82 | 220 | 101 | 9-11 |
| | 125 | 65 | 110 | 100 | 16 | **193 135 020** | 1.290 | 179 | 88 | 220 | 107 | 9-11 |
| * | 140 | 65 | 90 | 125 | 16 | **193 135 029** | 0.982 | 195 | 81 | 220 | 101 | 9-11 |
| * | 140 | 65 | 110 | 125 | 16 | **193 135 030** | 1.087 | 195 | 87 | 220 | 107 | 9-11 |
| | 160 | 65 | 90 | 150 | 16 | **193 135 039** | 1.449 | 215 | 82 | 240 | 102 | 9-17.6 |
| | 160 | 86 | 110 | 150 | 16 | **193 135 040** | 1.582 | 215 | 88 | 240 | 108 | 9-17.6 |
| | 160 | 86 | 125 | 150 | 16 | **193 135 041** | 1.782 | 215 | 99 | 240 | 129 | 9-17.6 |
| | 180 | 65 | 90 | 150 | 16 | **193 135 049** | 1.672 | 237 | 82 | 260 | 102 | 9-17.6 |
| | 180 | 86 | 110 | 150 | 16 | **193 135 050** | 1.765 | 237 | 88 | 260 | 108 | 9-17.6 |
| | 180 | 86 | 125 | 150 | 16 | **193 135 051** | 2.015 | 237 | 99 | 260 | 129 | 9-17.6 |
| | 200 | 65 | 90 | 200 | 16 | **193 135 059** | 1.803 | 253 | 82 | 260 | 102 | 9-17.6 |
| | 200 | 86 | 110 | 200 | 16 | **193 135 060** | 1.963 | 253 | 88 | 260 | 108 | 9-17.6 |
| | 200 | 86 | 125 | 200 | 16 | **193 135 061** | 2.128 | 253 | 99 | 260 | 129 | 9-17.6 |
| | 225 | 65 | 90 | 200 | 16 | **193 135 069** | 2.006 | 287 | 82 | 260 | 102 | 9-17.6 |
| | 225 | 86 | 110 | 200 | 16 | **193 135 070** | 2.400 | 287 | 88 | 260 | 108 | 9-17.6 |
| | 225 | 86 | 125 | 200 | 16 | **193 135 071** | 2.312 | 287 | 99 | 260 | 129 | 9-17.6 |
| | 250 | 65 | 90 | 250 | 16 | **193 135 079** | 2.145 | 312 | 82 | 260 | 102 | 9-26 |
| | 250 | 86 | 110 | 250 | 16 | **193 135 080** | 2.258 | 312 | 88 | 260 | 108 | 9-26 |
| | 250 | 86 | 125 | 250 | 16 | **193 135 081** | 2.500 | 312 | 99 | 260 | 129 | 9-26 |



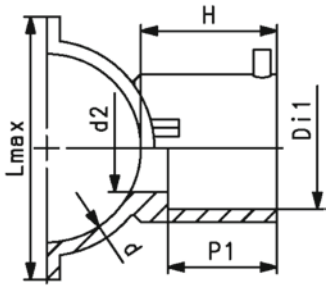
## ELGEF Plus Multiple use assembly tool branch saddle PE100
## d140mm

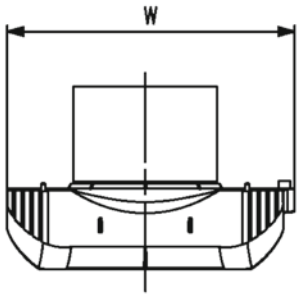
- Only to be used with Branch Saddle d140mm
- Delivered as complete Kit including screws and belt

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 140 | **193 281 027** | 0.724 |

# Branch saddles topload






**ELGEF Plus Branch saddle topload PE100**
**d280- d630mm / SDR11 / Outlet d90-d125 mm**

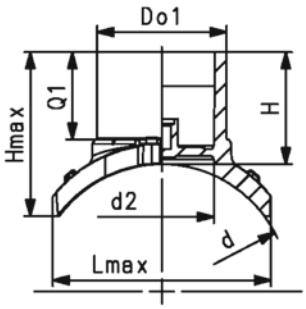
- 10 bar Gas / 16 bar Water
- Branch Saddle for assembling as Topload with tool 799.350.477; angle adaptors (799.350.340) for fusion cable required
- Electrofusion outlet with integrated pipe fixation
- Protected wire without medium contact
- 4 mm pin connectors
- Limited path fusion indicators

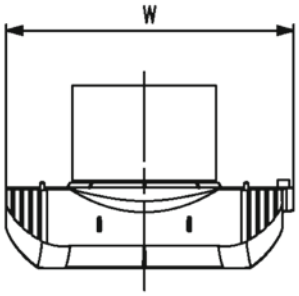
* FM 1613 approved - 15 bar

| | d (mm) | d2 (mm) | Do1 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| * | 280 | 65 | 90 | 250 | 16 | **193 135 289** | 1.242 |
| * | 280 | 86 | 110 | 250 | 16 | **193 135 290** | 1.295 |
| * | 280 | 86 | 125 | 250 | 16 | **193 135 291** | 1.530 |
| * | 315 - 355 | 65 | 90 | 300 - 350 | 16 | **193 135 309** | 1.214 |
| * | 315 - 355 | 86 | 110 | 300 - 350 | 16 | **193 135 310** | 1.297 |
| * | 315 - 355 | 86 | 125 | 300 - 350 | 16 | **193 135 311** | 1.530 |
| * | 400 | 65 | 90 | 400 | 16 | **193 135 329** | 1.022 |
| * | 400 | 86 | 110 | 400 | 16 | **193 135 330** | 1.116 |
| * | 400 | 86 | 125 | 400 | 16 | **193 135 331** | 1.369 |
| | 450 | 65 | 90 | 450 | 16 | **193 135 339** | 1.022 |
| | 450 | 86 | 110 | 450 | 16 | **193 135 340** | 1.116 |
| | 450 | 86 | 125 | 450 | 16 | **193 135 341** | 1.369 |
| * | 500 - 630 | 65 | 90 | 500 - 600 | 16 | **193 135 159** | 1.086 |
| * | 500 - 630 | 86 | 110 | 500 - 600 | 16 | **193 135 160** | 1.159 |
| * | 500 - 630 | 86 | 125 | 500 - 600 | 16 | **193 135 161** | 1.388 |

| | d (mm) | Lmax (mm) | P1 (mm) | W (mm) | H (mm) | SDR pipe |
|---|---|---|---|---|---|---|
| * | 280 | 243 | 82 | 260 | 102 | 9-26 |
| * | 280 | 243 | 88 | 260 | 108 | 9-26 |
| * | 280 | 243 | 99 | 260 | 129 | 9-26 |
| * | 315 - 355 | 249 | 82 | 260 | 102 | 9-26 |
| * | 315 - 355 | 249 | 88 | 260 | 108 | 9-26 |
| * | 315 - 355 | 249 | 99 | 260 | 129 | 9-26 |
| * | 400 | 256 | 82 | 260 | 102 | 9-26 |
| * | 400 | 256 | 88 | 260 | 108 | 9-26 |
| * | 400 | 256 | 99 | 260 | 129 | 9-26 |
| | 450 | 256 | 82 | 260 | 102 | 9-26 |
| | 450 | 256 | 88 | 260 | 108 | 9-26 |
| | 450 | 256 | 99 | 260 | 129 | 9-26 |
| * | 500 - 630 | 263 | 82 | 260 | 102 | 9-26 |
| * | 500 - 630 | 263 | 88 | 260 | 108 | 9-26 |
| * | 500 - 630 | 263 | 99 | 260 | 129 | 9-26 |



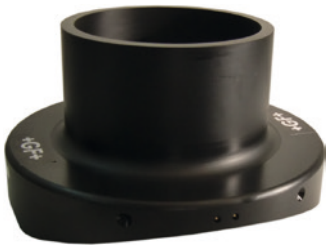



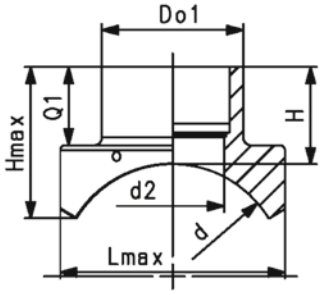

## ELGEF Plus Branch saddle topload PE100
## d315-1000mm / SDR11 / Outlet d160-d225 mm

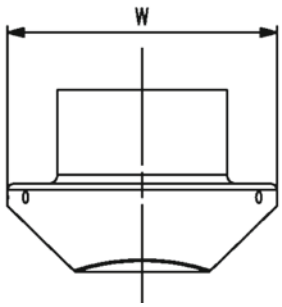
- 10 bar Gas / 16 bar Water
- Branch Saddle installation only with installation set Topload TL225 (799.300.807)
- Angle adaptors (799.350.340) for fusion cable required
- 4 mm pin connectors
- Limited path fusion indicators
- Spigot outlet for butt- and electrofusion
- Full pressure applicable - no derating factor
- With integrated pressure test port for test cap (799.199.287)

| d (mm) | d2 (mm) | Do1 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | W (mm) | H (mm) | Hmax (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 315 | 129 | 160 | 300 | 16 | **193 135 202** | 2.548 | 273 | 106 | 322 | 136 | 204 | 11-26 |
| 315 | 177 | 225 | 300 | 16 | **193 135 204** | 4.625 | 300 | 126 | 360 | 165 | 262 | 11-26 |
| 355 | 129 | 160 | 350 | 16 | **193 135 212** | 2.348 | 270 | 106 | 320 | 136 | 200 | 11-26 |
| 355 | 177 | 225 | 350 | 16 | **193 135 214** | 4.594 | 312 | 126 | 354 | 164 | 250 | 11-26 |
| 400 | 129 | 160 | 400 | 16 | **193 135 222** | 2.623 | 290 | 106 | 320 | 133 | 193 | 11-26 |
| 400 | 177 | 225 | 400 | 16 | **193 135 224** | 4.612 | 325 | 126 | 364 | 164 | 241 | 11-26 |
| 450 | 129 | 160 | 450 | 16 | **193 135 232** | 2.429 | 270 | 106 | 320 | 136 | 190 | 11-26 |
| 450 | 177 | 225 | 450 | 16 | **193 135 234** | 4.301 | 320 | 126 | 364 | 164 | 234 | 11-26 |
| 500 | 129 | 160 | 500 | 16 | **193 135 242** | 2.690 | 270 | 106 | 320 | 136 | 182 | 11-26 |
| 500 | 177 | 225 | 500 | 16 | **193 135 244** | 4.569 | 312 | 126 | 354 | 164 | 225 | 11-26 |
| 560 | 129 | 160 | 600 | 16 | **193 135 252** | 2.495 | 303 | 106 | 320 | 180 | 180 | 11-26 |
| 560 | 177 | 225 | 600 | 16 | **193 135 254** | 4.321 | 341 | 126 | 364 | 222 | 222 | 11-26 |
| 630 | 129 | 160 | 600 | 16 | **193 135 262** | 2.616 | 304 | 106 | 320 | 133 | 172 | 11-33 |
| 630 | 177 | 225 | 600 | 16 | **193 135 264** | 4.750 | 349 | 126 | 364 | 164 | 212 | 11-33 |
| 710 | 129 | 160 | 700 | 16 | **193 135 272** | 2.504 | 304 | 106 | 320 | 132 | 169 | 11-33 |
| 710 | 177 | 225 | 700 | 16 | **193 135 274** | 4.360 | 348 | 126 | 360 | 165 | 207 | 11-33 |
| 800 | 129 | 160 | 800 | 16 | **193 135 282** | 2.399 | 304 | 106 | 320 | 132 | 166 | 11-33 |
| 800 | 177 | 225 | 800 | 16 | **193 135 284** | 4.553 | 356 | 126 | 360 | 164 | 200 | 11-33 |
| 900 | 177 | 225 | 900 | 16 | **193 135 294** | 4.390 | 356 | 126 | 360 | 164 | 200 | 11-33 |
| 1000 | 177 | 225 | 1000 | 16 | **193 135 304** | 4.262 | 356 | 126 | 360 | 164 | 196 | 11-33 |



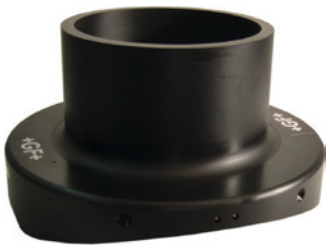
## ELGEF Plus Branch saddle topload PE100
## d450-1000mm / SDR11 / Outlet d315 mm



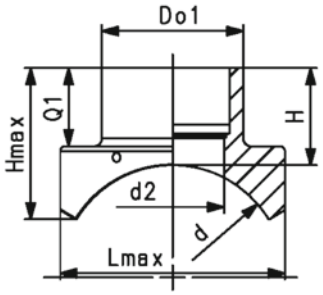



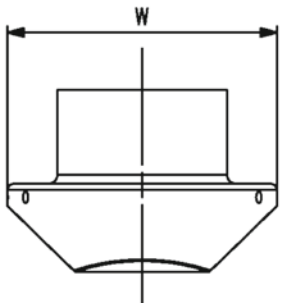

- 10 bar Gas / 16 bar Water
- Branch saddle installation only with installation set Toploaad TL500 (799.300.809)
- Angle adaptors (799.350.340) for fusion cable required
- 4 mm pin connectors
- Spigot outlet for butt- and electrofusion
- Full pressure applicable - no derating factor
- With integrated thread for pressure test with separate pressure test cap 799.199.288 (outlet d315) / 799.199.289 (outlet d500)

| d (mm) | d2 (mm) | Do1 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | W (mm) | H (mm) | Hmax (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 450 | 232 | 315 | 450 | 16 | **193 135 436** | 18.500 | 500 | 174 | 500 | 216 | 346 | 11 - 26 |
| 500 | 232 | 315 | 500 | 16 | **193 135 446** | 17.000 | 500 | 174 | 500 | 216 | 337 | 11 - 26 |
| 560 | 232 | 315 | 600 | 16 | **193 135 456** | 16.100 | 500 | 174 | 500 | 216 | 327 | 11 - 26 |
| 630 | 232 | 315 | 600 | 16 | **193 135 466** | 15.950 | 500 | 174 | 500 | 216 | 312 | 11 - 33 |
| 710 | 232 | 315 | 700 | 16 | **193 135 476** | 14.800 | 500 | 174 | 500 | 216 | 297 | 11 - 33 |
| 800 | 232 | 315 | 800 | 16 | **193 135 486** | 14.300 | 500 | 174 | 500 | 216 | 287 | 11 - 33 |
| 900 | 232 | 315 | 900 | 16 | **193 135 496** | 13.800 | 500 | 174 | 500 | 216 | 281 | 11 - 33 |
| 1000 | 232 | 315 | 1000 | 16 | **193 135 506** | 13.500 | 500 | 174 | 500 | 216 | 274 | 11 - 33 |



## ELGEF Plus Branch saddle topload PE100
## d710-2000mm / SDR17 / Outlet d315-d500 mm



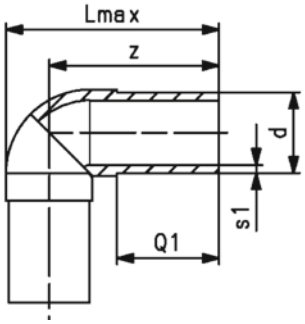

- 5 bar Gas / 10 bar Water
- Angle adaptors (799.350.340) for fusion cable required
- Branch saddle installation only with installation set Toploaad TL500 (799.300.809)
- 4 mm pin connectors
- Spigot outlet for butt- and electrofusion
- Full pressure applicable - no derating factor
- With integrated thread for pressure test with separate pressure test cap 799.199.288 (outlet d315) / 799.199.289 (outlet d500)

| d (mm) | d2 (mm) | Do1 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | W (mm) | H (mm) | Hmax (mm) | SDR pipe |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 710 | 250 | 315 | 700 | 10 | **193 135 676** | 14.000 | 500 | 174 | 500 | 216 | 296 | 11 - 33 |
| 800 | 250 | 315 | 800 | 10 | **193 135 686** | 13.500 | 500 | 174 | 500 | 216 | 287 | 11 - 33 |
| 900 | 250 | 315 | 900 | 10 | **193 135 696** | 13.100 | 500 | 174 | 500 | 216 | 282 | 11 - 33 |
| 900 | 397 | 500 | 900 | 10 | **193 135 698** | 32.600 | 700 | 237 | 700 | 280 | 406 | 11 - 33 |
| 1000 | 250 | 315 | 1000 | 10 | **193 135 706** | 12.800 | 500 | 174 | 500 | 216 | 274 | 11 - 33 |
| 1000 | 397 | 500 | 1000 | 10 | **193 135 708** | 31.400 | 700 | 237 | 700 | 280 | 397 | 11 - 33 |
| 1200 | 250 | 315 | 1200 | 10 | **193 135 716** | 12.300 | 500 | 174 | 500 | 216 | 267 | 11 - 33 |
| 1200 | 397 | 500 | 1200 | 10 | **193 135 718** | 29.400 | 700 | 237 | 700 | 280 | 377 | 11 - 33 |
| 1400 | 250 | 315 | 1400 | 10 | **193 135 726** | 11.900 | 500 | 174 | 500 | 216 | 257 | 11 - 33 |
| 1400 | 397 | 500 | 1400 | 10 | **193 135 728** | 28.100 | 700 | 237 | 700 | 280 | 262 | 11 - 33 |
| 1600 | 250 | 315 | 1600 | 10 | **193 135 736** | 11.700 | 500 | 174 | 500 | 216 | 252 | 11 - 33 |
| 1600 | 397 | 500 | 1600 | 10 | **193 135 738** | 27.100 | 700 | 237 | 700 | 280 | 352 | 11 - 33 |
| 2000 | 250 | 315 | 2000 | 10 | **193 135 746** | 11.300 | 500 | 174 | 500 | 216 | 246 | 11 - 33 |
| 2000 | 397 | 500 | 2000 | 10 | **193 135 748** | 25.700 | 700 | 237 | 700 | 280 | 337 | 11 - 33 |

# Spigot fittings in PE100

## Elbows





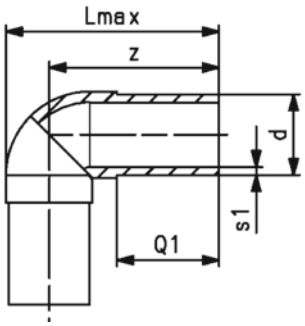

### ELGEF Plus Elbow 90° PE100
### d20-315mm / SDR11 / Long version

- 10 bar Gas / 16 bar Water

* FM 1613 approved - 15 bar

| | d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | s1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| | 20 | 15 | 16 | **753 101 006** | 0.027 | 85.0 | 52 | 3.0 | 75 |
| | 25 | 20 | 16 | **753 101 007** | 0.040 | 92.5 | 52 | 3.0 | 80 |
| | 32 | 25 | 16 | **753 101 008** | 0.056 | 101.0 | 54 | 3.0 | 85 |
| | 40 | 32 | 16 | **753 101 009** | 0.089 | 115.0 | 57 | 3.7 | 95 |
| | 50 | 40 | 16 | **753 101 010** | 0.156 | 130.0 | 63 | 4.6 | 105 |
| | 63 | 50 | 16 | **753 101 011** | 0.274 | 146.5 | 65 | 5.8 | 115 |
| | 75 | 65 | 16 | **753 101 012** | 0.414 | 167.5 | 72 | 6.8 | 130 |
| * | 90 | 80 | 16 | **753 101 013** | 0.704 | 195.0 | 81 | 8.2 | 150 |
| * | 110 | 100 | 16 | **753 101 014** | 1.158 | 220.0 | 86 | 10.0 | 165 |
| * | 125 | 100 | 16 | **753 101 015** | 1.609 | 242.5 | 92 | 11.4 | 180 |
| * | 140 | 125 | 16 | **753 101 016** | 2.270 | 272.0 | 92 | 12.7 | 194 |
| * | 160 | 150 | 16 | **753 101 017** | 3.100 | 290.0 | 102 | 14.6 | 210 |
| * | 180 | 150 | 16 | **753 101 018** | 4.328 | 322.0 | 107 | 16.4 | 232 |
| * | 200 | 200 | 16 | **753 101 019** | 5.739 | 353.0 | 117 | 18.2 | 253 |
| * | 225 | 200 | 16 | **753 101 020** | 7.775 | 382.5 | 122 | 20.5 | 270 |
| * | 250 | 250 | 16 | **753 101 001** | 10.368 | 414.0 | 130 | 22.7 | 292 |
| * | 280 | 250 | 16 | **753 100 922** | 14.473 | 455.0 | 140 | 25.4 | 320 |
| * | 315 | 300 | 16 | **753 101 003** | 20.495 | 514.5 | 150 | 28.6 | 370 |





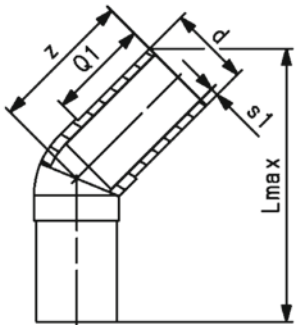

### ELGEF Plus Elbow 90° PE100
### d90-315mm / SDR17 / Long version

- 5 bar Gas / 10 bar Water

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | s1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| 90 | 80 | 10 | **753 100 813** | 0.543 | 195.0 | 81 | 5.4 | 150 |
| 110 | 100 | 10 | **753 100 814** | 0.876 | 220.0 | 86 | 6.6 | 165 |
| 125 | 100 | 10 | **753 100 815** | 0.927 | 242.5 | 93 | 7.4 | 180 |
| 140 | 125 | 10 | **753 100 816** | 1.640 | 272.0 | 119 | 8.3 | 204 |
| 160 | 150 | 10 | **753 100 817** | 2.385 | 290.0 | 102 | 9.5 | 210 |
| 180 | 150 | 10 | **753 100 818** | 3.205 | 322.0 | 107 | 10.7 | 232 |
| 200 | 200 | 10 | **753 100 819** | 4.298 | 353.0 | 115 | 11.9 | 253 |
| 225 | 200 | 10 | **753 100 820** | 5.864 | 382.5 | 120 | 13.4 | 270 |
| 250 | 250 | 10 | **753 100 821** | 7.080 | 414.0 | 130 | 14.8 | 292 |
| 280 | 250 | 10 | **753 100 822** | 9.664 | 455.0 | 140 | 16.6 | 320 |
| 315 | 300 | 10 | **753 100 823** | 14.030 | 514.5 | 150 | 18.7 | 370 |

## ELGEF Plus Elbow 45° PE100
## d20-315mm / SDR11 / Long version





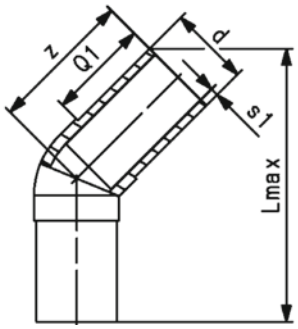

- 10 bar Gas / 16 bar Water

* FM 1613 approved - 15 bar

| | d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | s1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| | 20 | 15 | 16 | **753 151 006** | 0.027 | 126.6 | 52 | 3.0 | 70 |
| | 25 | 20 | 16 | **753 151 007** | 0.037 | 136.9 | 52 | 3.0 | 75 |
| | 32 | 25 | 16 | **753 151 008** | 0.050 | 147.9 | 54 | 3.0 | 80 |
| | 40 | 32 | 16 | **753 151 009** | 0.086 | 159.2 | 57 | 3.7 | 85 |
| | 50 | 40 | 16 | **753 151 010** | 0.133 | 171.3 | 63 | 4.6 | 90 |
| | 63 | 50 | 16 | **753 151 011** | 0.227 | 184.4 | 65 | 5.8 | 95 |
| | 75 | 65 | 16 | **753 151 012** | 0.350 | 205.8 | 72 | 6.8 | 105 |
| * | 90 | 80 | 16 | **753 151 013** | 0.565 | 236.7 | 81 | 8.2 | 120 |
| * | 110 | 100 | 16 | **753 151 014** | 0.921 | 260.8 | 86 | 10.0 | 130 |
| * | 125 | 100 | 16 | **753 151 015** | 1.290 | 293.2 | 92 | 11.4 | 140 |
| * | 140 | 125 | 16 | **753 151 016** | 1.796 | 329.5 | 120 | 12.7 | 164 |
| * | 160 | 150 | 16 | **753 151 017** | 2.454 | 333.1 | 102 | 14.6 | 162 |
| * | 180 | 150 | 16 | **753 151 018** | 3.274 | 353.8 | 107 | 16.4 | 170 |
| * | 200 | 200 | 16 | **753 151 019** | 4.362 | 388.2 | 116 | 18.2 | 186 |
| * | 225 | 200 | 16 | **753 151 020** | 5.981 | 421.0 | 123 | 20.5 | 200 |
| * | 250 | 250 | 16 | **753 151 021** | 8.283 | 464.0 | 130 | 22.7 | 220 |
| * | 280 | 250 | 16 | **753 150 922** | 10.285 | 491.6 | 140 | 25.4 | 230 |
| * | 315 | 300 | 16 | **753 150 923** | 14.124 | 538.1 | 150 | 28.6 | 250 |

## ELGEF Plus Elbow 45° PE100
## d90-315mm / SDR17 / Long version

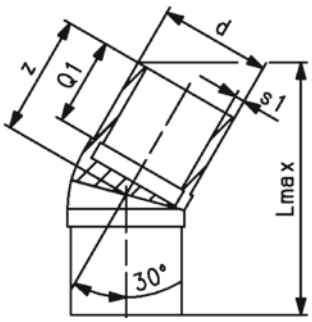





- 5 bar Gas / 10 bar Water

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | s1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| 90 | 80 | 10 | **753 150 813** | 0.411 | 236.7 | 81 | 5.4 | 120 |
| 110 | 100 | 10 | **753 150 814** | 0.722 | 260.8 | 86 | 6.6 | 130 |
| 125 | 100 | 10 | **753 150 815** | 0.948 | 283.2 | 92 | 7.4 | 140 |
| 140 | 125 | 10 | **753 150 816** | 1.259 | 329.5 | 120 | 8.3 | 164 |
| 160 | 150 | 10 | **753 150 817** | 1.901 | 333.1 | 102 | 9.5 | 162 |
| 180 | 150 | 10 | **753 150 818** | 2.386 | 353.8 | 107 | 10.7 | 170 |
| 200 | 200 | 10 | **753 150 819** | 3.153 | 388.2 | 116 | 11.9 | 186 |
| 225 | 200 | 10 | **753 150 820** | 4.441 | 429.5 | 123 | 13.4 | 205 |
| 250 | 250 | 10 | **753 150 821** | 6.012 | 458.8 | 130 | 14.8 | 217 |
| 280 | 250 | 10 | **753 150 822** | 7.489 | 491.6 | 140 | 16.6 | 230 |
| 315 | 300 | 10 | **753 150 823** | 10.123 | 538.1 | 150 | 18.7 | 250 |



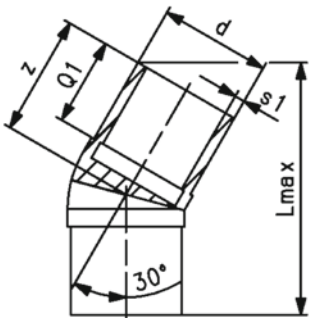



## ELGEF Plus Elbow 30° PE100
## d32-315mm / SDR11 / Long version

- 10 bar Gas / 16 bar Water
- Welded design

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | s1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| 32 | 25 | 16 | **753 120 908** | 0.530 | 157 | 54 | 3.0 | 70 |
| 40 | 32 | 16 | **753 120 909** | 0.530 | 169 | 57 | 3.7 | 80 |
| 50 | 40 | 16 | **753 120 910** | 0.121 | 180 | 63 | 4.6 | 80 |
| 63 | 50 | 16 | **753 120 911** | 0.207 | 193 | 65 | 5.8 | 80 |
| 75 | 65 | 16 | **753 120 912** | 0.311 | 215 | 72 | 6.8 | 90 |
| 90 | 80 | 16 | **753 120 913** | 0.510 | 246 | 81 | 8.2 | 100 |
| 110 | 100 | 16 | **753 120 914** | 0.840 | 270 | 86 | 10.0 | 105 |
| 125 | 100 | 16 | **753 120 915** | 1.174 | 292 | 92 | 11.4 | 115 |
| 140 | 125 | 16 | **753 120 916** | 1.760 | 287 | 92 | 12.7 | 135 |
| 160 | 150 | 16 | **753 120 917** | 2.155 | 339 | 102 | 14.6 | 130 |
| 180 | 150 | 16 | **753 120 918** | 2.911 | 362 | 107 | 16.4 | 140 |
| 200 | 200 | 16 | **753 120 919** | 3.892 | 395 | 116 | 18.2 | 150 |
| 225 | 200 | 16 | **753 120 920** | 5.332 | 429 | 123 | 20.5 | 165 |
| 250 | 250 | 16 | **753 120 921** | 7.307 | 473 | 130 | 22.7 | 190 |
| 280 | 250 | 16 | **753 120 922** | 10.600 | 499 | 139 | 25.4 | 200 |
| 315 | 300 | 16 | **753 120 923** | 12.775 | 545 | 150 | 28.6 | 200 |



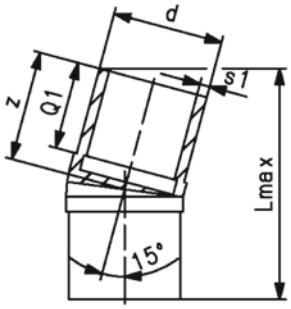



## ELGEF Plus Elbow 30° PE100
## d90-315mm / SDR17 / Long version

- 5 bar Gas / 10 bar Water
- Welded design

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | s1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| 90 | 80 | 10 | **753 120 813** | 0.363 | 246 | 81 | 5.4 | 110 |
| 110 | 100 | 10 | **753 120 814** | 0.607 | 270 | 86 | 6.6 | 115 |
| 125 | 100 | 10 | **753 120 815** | 0.819 | 292 | 92 | 7.4 | 125 |
| 140 | 125 | 10 | **753 120 816** | 1.112 | 287 | 92 | 8.3 | 150 |
| 160 | 150 | 10 | **753 120 817** | 1.526 | 339 | 102 | 9.5 | 140 |
| 180 | 150 | 10 | **753 120 818** | 2.040 | 362 | 107 | 10.7 | 150 |
| 200 | 200 | 10 | **753 120 819** | 2.780 | 395 | 116 | 11.9 | 160 |
| 225 | 200 | 10 | **753 120 820** | 3.798 | 429 | 123 | 13.4 | 180 |
| 250 | 250 | 10 | **753 120 821** | 5.039 | 473 | 130 | 14.8 | 200 |
| 280 | 250 | 10 | **753 120 822** | 8.100 | 499 | 139 | 16.6 | 200 |
| 315 | 300 | 10 | **753 120 823** | 8.655 | 545 | 150 | 18.7 | 220 |



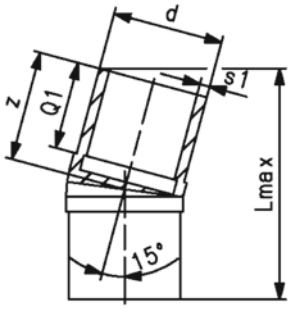



## ELGEF Plus Elbow 15° PE100
## d32-315mm / SDR11 / Long version

- 10 bar Gas / 16 bar Water
- Welded design

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | s1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| 32 | 25 | 16 | **753 141 008** | 0.051 | 140 | 54 | 3 | 70 |
| 40 | 32 | 16 | **753 141 009** | 0.082 | 160 | 57 | 4 | 80 |
| 50 | 40 | 16 | **753 141 010** | 0.118 | 162 | 63 | 5 | 80 |
| 63 | 50 | 16 | **753 141 011** | 0.200 | 163 | 65 | 6 | 80 |
| 75 | 65 | 16 | **753 141 012** | 0.290 | 185 | 72 | 7 | 90 |
| 90 | 80 | 16 | **753 141 013** | 0.479 | 206 | 81 | 8 | 100 |
| 110 | 100 | 16 | **753 141 014** | 0.785 | 219 | 86 | 10 | 105 |
| 125 | 100 | 16 | **753 141 015** | 1.063 | 239 | 92 | 11 | 115 |
| 140 | 125 | 16 | **753 141 016** | 1.600 | 281 | 92 | 13 | 135 |
| 160 | 150 | 16 | **753 141 017** | 2.170 | 273 | 102 | 15 | 130 |
| 180 | 150 | 16 | **753 141 018** | 2.653 | 296 | 107 | 16 | 140 |
| 200 | 200 | 16 | **753 141 019** | 3.438 | 318 | 116 | 18 | 150 |
| 225 | 200 | 16 | **753 141 020** | 4.765 | 351 | 123 | 21 | 165 |
| 250 | 250 | 16 | **753 141 021** | 8.300 | 403 | 130 | 23 | 190 |
| 280 | 250 | 16 | **753 141 022** | 8.322 | 426 | 139 | 25 | 200 |
| 315 | 300 | 16 | **753 141 023** | 11.292 | 431 | 150 | 29 | 200 |





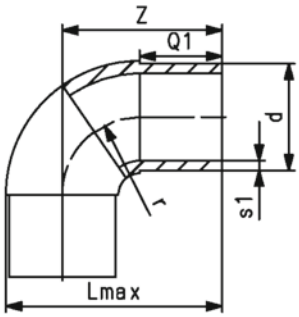

## ELGEF Plus Elbow 15° PE100
## d90-315mm / SDR17 / Long version

- 5 bar Gas / 10 bar Water
- Welded design

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | s1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| 90 | 80 | 10 | **753 140 813** | 0.337 | 206 | 81 | 5 | 100 |
| 110 | 100 | 10 | **753 140 814** | 0.551 | 219 | 86 | 7 | 105 |
| 125 | 100 | 10 | **753 140 815** | 0.728 | 239 | 92 | 7 | 115 |
| 140 | 125 | 10 | **753 140 816** | 0.370 | 281 | 92 | 8 | 135 |
| 160 | 150 | 10 | **753 140 817** | 1.364 | 273 | 102 | 10 | 130 |
| 180 | 150 | 10 | **753 140 818** | 2.040 | 296 | 107 | 11 | 140 |
| 200 | 200 | 10 | **753 140 819** | 2.371 | 318 | 116 | 12 | 150 |
| 225 | 200 | 10 | **753 140 820** | 3.335 | 351 | 123 | 13 | 165 |
| 250 | 250 | 10 | **753 140 821** | 5.830 | 403 | 130 | 15 | 190 |
| 280 | 250 | 10 | **753 140 822** | 8.100 | 426 | 139 | 17 | 195 |
| 315 | 300 | 10 | **753 140 823** | 7.528 | 431 | 150 | 19 | 200 |

# Bends



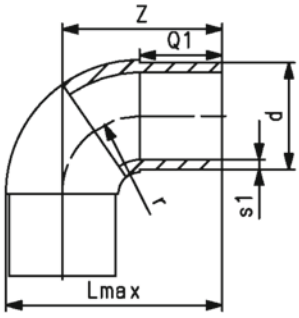



## ELGEF Plus Bend 90° PE 100
## d32-500mm / SDR11 / Long version

- 10 bar Gas / 16 bar Water
- Fittings are injection moulded
- Radius 1 x d

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | r (mm) | s1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 32 | 25 | 16 | **753 001 008** | 0.042 | 94.0 | 46 | 32 | 2.9 | 78 |
| 40 | 32 | 16 | **753 001 009** | 0.090 | 111.0 | 49 | 40 | 3.7 | 91 |
| 50 | 40 | 16 | **753 001 010** | 0.160 | 132.0 | 55 | 50 | 4.6 | 107 |
| 63 | 50 | 16 | **753 001 011** | 0.280 | 161.5 | 63 | 63 | 5.8 | 130 |
| 75 | 65 | 16 | **753 001 012** | 0.464 | 189.5 | 70 | 75 | 6.8 | 152 |
| 90 | 80 | 16 | **753 001 013** | 0.530 | 213.0 | 79 | 90 | 8.2 | 168 |
| 110 | 100 | 16 | **753 001 014** | 1.282 | 248.0 | 82 | 110 | 10.0 | 193 |
| 125 | 100 | 16 | **753 001 015** | 1.290 | 278.5 | 87 | 125 | 11.4 | 216 |
| 140 | 125 | 16 | **753 001 016** | 2.230 | 302.0 | 92 | 140 | 12.7 | 232 |
| 160 | 150 | 16 | **753 001 017** | 3.424 | 338.0 | 98 | 160 | 14.6 | 258 |
| 180 | 150 | 16 | **753 001 018** | 5.000 | 380.0 | 105 | 180 | 16.4 | 290 |
| 200 | 200 | 16 | **753 001 019** | 6.925 | 417.0 | 112 | 200 | 18.2 | 317 |
| 225 | 200 | 16 | **753 001 020** | 9.770 | 462.5 | 120 | 225 | 20.5 | 350 |
| 250 | 250 | 16 | **753 001 021** | 9.230 | 500.0 | 130 | 250 | 22.7 | 375 |
| 280 | 250 | 16 | **753 001 022** | 15.487 | 570.0 | 150 | 280 | 25.4 | 430 |
| 315 | 300 | 16 | **753 001 023** | 23.950 | 627.5 | 150 | 315 | 28.6 | 470 |
| 355 | 400 | 16 | **753 001 124** | 35.631 | 701.5 | 174 | 355 | 32.2 | 524 |
| 400 | 400 | 16 | **753 001 125** | 49.177 | 785.0 | 188 | 400 | 36.3 | 585 |
| 450 | 450 | 16 | **753 001 126** | 69.120 | 870.0 | 195 | 450 | 40.9 | 645 |
| 500 | 500 | 16 | **753 001 127** | 91.040 | 960.0 | 212 | 500 | 45.5 | 710 |



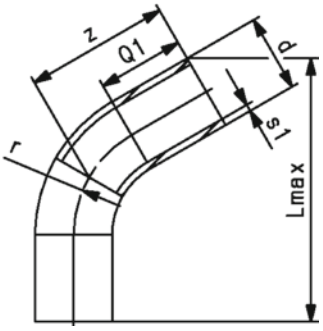



## ELGEF Plus Bend 90° PE 100
## d90-500mm / SDR17 / Long version

- 5 bar Gas / 10 bar Water
- Fittings are injection moulded
- Radius 1 x d

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | r (mm) | s1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 90 | 80 | 10 | **753 000 813** | 0.520 | 213 | 79 | 90 | 5.4 | 168 |
| 110 | 100 | 10 | **753 000 814** | 0.942 | 248 | 82 | 110 | 6.6 | 193 |
| 125 | 100 | 10 | **753 000 815** | 1.300 | 279 | 87 | 125 | 7.4 | 216 |
| 140 | 125 | 10 | **753 000 816** | 1.789 | 302 | 92 | 140 | 8.3 | 232 |
| 160 | 150 | 10 | **753 000 817** | 2.410 | 338 | 98 | 160 | 9.5 | 258 |
| 180 | 150 | 10 | **753 000 818** | 4.000 | 380 | 105 | 180 | 10.7 | 290 |
| 200 | 200 | 10 | **753 000 819** | 6.500 | 417 | 112 | 200 | 11.9 | 317 |
| 225 | 200 | 10 | **753 000 820** | 6.414 | 463 | 120 | 225 | 13.4 | 350 |
| 250 | 250 | 10 | **753 000 821** | 9.940 | 500 | 130 | 250 | 14.8 | 375 |
| 280 | 250 | 10 | **753 000 822** | 13.795 | 570 | 150 | 280 | 16.6 | 430 |
| 315 | 300 | 10 | **753 000 823** | 24.000 | 628 | 150 | 315 | 18.7 | 470 |
| 355 | 350 | 10 | **753 000 924** | 26.026 | 1078 | 174 | 355 | 21.1 | 524 |
| 400 | 400 | 10 | **753 000 925** | 36.793 | 1180 | 188 | 400 | 23.7 | 585 |
| 450 | 450 | 10 | **753 000 926** | 50.720 | 1295 | 195 | 450 | 26.7 | 645 |
| 500 | 500 | 10 | **753 000 927** | 66.940 | 1450 | 212 | 500 | 29.7 | 710 |



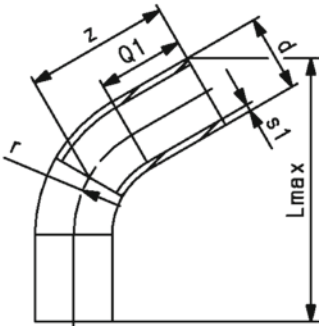



## ELGEF Plus Bend 60° PE100
## d32-900mm / SDR11 / Long version

- 16 bar Water
- Made out of seamless pipe
- Bends made out of seamless pipe shall not be shortened
- Radius 1.5 x d

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | r (mm) | s1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 32 | 25 | 16 | **753 071 008** | 0.070 | 205.9 | 80 | 48 | 2.9 | 128 |
| 40 | 32 | 16 | **753 071 009** | 0.120 | 219.8 | 80 | 60 | 3.7 | 135 |
| 50 | 40 | 16 | **753 071 010** | 0.240 | 258.7 | 100 | 75 | 4.6 | 158 |
| 63 | 50 | 16 | **753 071 011** | 0.420 | 286.8 | 100 | 95 | 5.8 | 173 |
| 75 | 65 | 16 | **753 071 012** | 0.600 | 305.5 | 100 | 113 | 6.8 | 182 |
| 90 | 80 | 16 | **753 071 013** | 0.900 | 328.5 | 100 | 135 | 8.2 | 193 |
| 110 | 100 | 16 | **753 071 014** | 1.780 | 452.6 | 150 | 165 | 10.0 | 270 |
| 125 | 100 | 16 | **753 071 015** | 2.500 | 478.6 | 150 | 188 | 11.4 | 283 |
| 140 | 125 | 16 | **753 071 016** | 2.700 | 504.6 | 150 | 210 | 12.7 | 296 |
| 160 | 150 | 16 | **753 071 017** | 4.574 | 538.8 | 150 | 240 | 14.6 | 313 |
| 180 | 150 | 16 | **753 071 018** | 4.900 | 572.9 | 150 | 270 | 16.4 | 330 |
| 200 | 200 | 16 | **753 071 019** | 6.400 | 608.6 | 150 | 300 | 18.2 | 348 |
| 225 | 200 | 16 | **753 071 020** | 8.600 | 652.4 | 150 | 338 | 20.5 | 370 |
| 250 | 250 | 16 | **753 071 021** | 14.500 | 858.3 | 250 | 375 | 22.7 | 500 |
| 280 | 250 | 16 | **753 071 022** | 19.100 | 916.2 | 250 | 420 | 25.4 | 530 |
| 315 | 300 | 16 | **753 071 023** | 25.600 | 1054.4 | 250 | 473 | 28.6 | 612 |
| 355 | 350 | 16 | **753 071 024** | 41.700 | 1188.7 | 300 | 533 | 32.3 | 690 |
| 400 | 400 | 16 | **753 071 025** | 55.800 | 1268.2 | 300 | 600 | 36.4 | 730 |
| 450 | 450 | 16 | **753 071 026** | 76.000 | 1364.9 | 300 | 675 | 40.9 | 780 |
| 500 | 500 | 16 | **753 071 027** | 104.600 | 1536.5 | 350 | 750 | 45.5 | 880 |
| 560 | 600 | 16 | **753 071 028** | 139.500 | 1637.5 | 350 | 840 | 50.9 | 930 |
| 630 | 600 | 16 | **753 071 029** | 188.500 | 1772.8 | 350 | 945 | 57.3 | 1000 |
| 710 | 700 | 16 | **753 071 030** | 305.000 | 1657.4 | 400 | 1065 | 64.5 | 900 |
| 800 | 800 | 16 | **753 071 031** | 385.300 | 1771.4 | 400 | 1200 | 72.6 | 950 |
| 900 | 900 | 16 | **753 071 032** | 600.000 | 2114.7 | 400 | 1350 | 81.8 | 1150 |



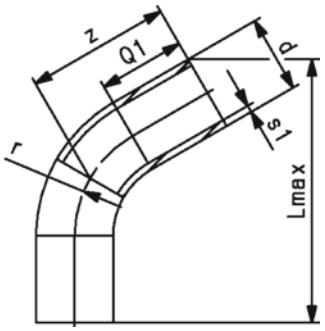



## ELGEF Plus Bend 60° PE100
## d90-1000mm / SDR17 / Long version

- 10 bar Water
- Made out of seamless pipe
- Bends made out of seamless pipe shall not be shortened
- Radius 1.5 x d

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | r (mm) | s1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 90 | 80 | 10 | **753 070 813** | 0.600 | 403.5 | 100 | 135 | 5.4 | 193 |
| 110 | 100 | 10 | **753 070 814** | 1.280 | 452.6 | 150 | 165 | 6.6 | 270 |
| 125 | 100 | 10 | **753 070 815** | 1.300 | 478.6 | 150 | 187 | 7.4 | 283 |
| 140 | 125 | 10 | **753 070 816** | 1.800 | 504.6 | 150 | 210 | 8.3 | 296 |
| 160 | 150 | 10 | **753 070 817** | 3.160 | 538.8 | 150 | 240 | 9.5 | 313 |
| 180 | 150 | 10 | **753 070 818** | 3.190 | 527.9 | 150 | 270 | 10.7 | 330 |
| 200 | 200 | 10 | **753 070 819** | 4.200 | 608.6 | 150 | 300 | 11.9 | 348 |
| 225 | 200 | 10 | **753 070 820** | 5.600 | 652.4 | 150 | 337 | 13.4 | 370 |
| 250 | 250 | 10 | **753 070 821** | 9.250 | 858.3 | 250 | 375 | 14.8 | 500 |
| 280 | 250 | 10 | **753 070 822** | 15.000 | 916.2 | 250 | 420 | 16.6 | 530 |
| 315 | 300 | 10 | **753 070 823** | 19.500 | 1054.4 | 250 | 472 | 18.7 | 612 |
| 355 | 350 | 10 | **753 070 824** | 30.100 | 118.7 | 300 | 532 | 21.1 | 690 |
| 400 | 400 | 10 | **753 070 825** | 38.200 | 1268.2 | 300 | 600 | 23.7 | 730 |
| 450 | 450 | 10 | **753 070 826** | 53.700 | 1364.9 | 300 | 675 | 26.7 | 780 |
| 500 | 500 | 10 | **753 070 827** | 73.900 | 1536.5 | 350 | 750 | 29.7 | 880 |
| 560 | 600 | 10 | **753 070 828** | 98.200 | 1637.5 | 350 | 840 | 33.2 | 930 |
| 630 | 600 | 10 | **753 070 829** | 132.300 | 1772.8 | 350 | 945 | 37.4 | 1000 |

table continued on the next page



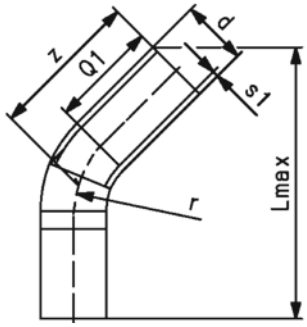

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | r (mm) | s1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 710 | 700 | 10 | **753 070 830** | 213.000 | 1657.4 | 400 | 1065 | 42.1 | 900 |
| 800 | 800 | 10 | **753 070 831** | 260.700 | 1771.4 | 400 | 1200 | 47.4 | 950 |
| 900 | 900 | 10 | **753 070 832** | 385.500 | 2114.7 | 450 | 1350 | 53.3 | 1150 |
| 1000 | 1000 | 10 | **753 070 833** | 507.600 | 2233.0 | 450 | 1500 | 59.3 | 1200 |



## ELGEF Plus Bend 45° PE100
## d32-900mm / SDR11 / Long version

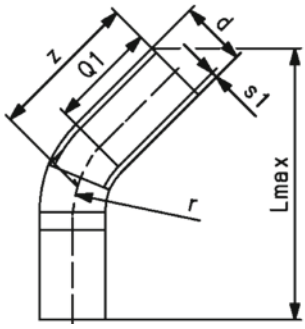
- 16 bar Water
- Made out of seamless pipe
- Bends made out of seamless pipe shall not be shortened
- Radius 1.5 x d

* FM 1613 approved - 15 bar




| | d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | r (mm) | s1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 32 | 25 | 16 | **753 051 008** | 0.077 | 216.2 | 80 | 48 | 2.9 | 120 |
| | 40 | 32 | 16 | **753 051 009** | 0.120 | 219.0 | 80 | 60 | 3.7 | 120 |
| | 50 | 40 | 16 | **753 051 010** | 0.240 | 272.0 | 100 | 75 | 4.6 | 149 |
| | 63 | 50 | 16 | **753 051 011** | 0.360 | 297.1 | 100 | 95 | 5.8 | 161 |
| | 75 | 65 | 16 | **753 051 012** | 0.560 | 313.3 | 100 | 113 | 6.8 | 168 |
| | 90 | 80 | 16 | **753 051 013** | 0.760 | 334.0 | 100 | 135 | 8.2 | 177 |
| | 110 | 100 | 16 | **753 051 014** | 1.700 | 453.7 | 150 | 165 | 10.0 | 243 |
| | 125 | 100 | 16 | **753 051 015** | 2.186 | 476.1 | 150 | 188 | 11.4 | 253 |
| | 140 | 125 | 16 | **753 051 016** | 2.800 | 496.8 | 150 | 210 | 12.7 | 262 |
| | 160 | 150 | 16 | **753 051 017** | 3.800 | 524.3 | 160 | 240 | 14.6 | 274 |
| | 180 | 150 | 16 | **753 051 018** | 5.140 | 553.6 | 150 | 270 | 16.4 | 287 |
| | 200 | 200 | 16 | **753 051 019** | 7.058 | 581.1 | 150 | 300 | 18.2 | 299 |
| | 225 | 200 | 16 | **753 051 020** | 7.400 | 617.3 | 150 | 338 | 20.5 | 315 |
| | 250 | 250 | 16 | **753 051 021** | 13.000 | 839.5 | 250 | 375 | 22.7 | 440 |
| | 280 | 250 | 16 | **753 051 022** | 22.000 | 884.3 | 250 | 420 | 25.4 | 460 |
| | 315 | 300 | 16 | **753 051 023** | 24.930 | 1024.7 | 250 | 473 | 28.6 | 535 |
| | 355 | 350 | 16 | **753 051 024** | 39.500 | 1183.9 | 300 | 533 | 32.3 | 620 |
| * | 355 | 350 | 16 | **753 051 124** | 39.500 | 1251.0 | 300 | 533 | 32.3 | 620 |
| | 400 | 400 | 16 | **753 051 025** | 48.500 | 1319.9 | 300 | 600 | 36.4 | 650 |
| * | 400 | 400 | 16 | **753 051 125** | 48.500 | 1474.2 | 300 | 600 | 36.4 | 650 |
| | 450 | 450 | 16 | **753 051 026** | 69.800 | 1563.7 | 300 | 675 | 40.9 | 680 |
| * | 450 | 450 | 16 | **753 051 126** | 69.800 | 1707.9 | 300 | 675 | 40.9 | 680 |
| | 500 | 500 | 16 | **753 051 027** | 96.300 | 1787.4 | 350 | 750 | 45.5 | 760 |
| * | 500 | 500 | 16 | **753 051 127** | 96.300 | 1904.6 | 350 | 750 | 45.5 | 760 |
| | 560 | 600 | 16 | **753 051 028** | 129.800 | 2281.4 | 350 | 840 | 50.9 | 800 |
| | 630 | 600 | 16 | **753 051 029** | 174.000 | | 350 | 945 | 57.3 | 870 |
| | 710 | 700 | 16 | **753 051 030** | 286.000 | | 400 | 1065 | 64.5 | 900 |
| | 800 | 800 | 16 | **753 051 031** | 340.000 | | 400 | 1200 | 72.6 | 950 |
| | 900 | 900 | 16 | **753 051 032** | 516.400 | | 400 | 1350 | 81.8 | 1150 |



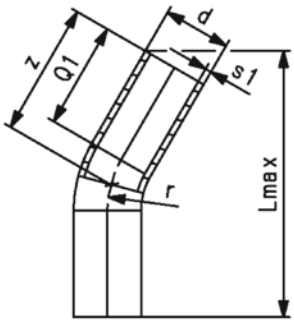



## ELGEF Plus Bend 45° PE100
## d90-1000mm / SDR17 / Long version

- 10 bar Water
- Made out of seamless pipe
- Bends made out of seamless pipe shall not be shortened
- Radius 1.5 x d

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | r (mm) | s1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 90 | 80 | 10 | **753 050 813** | 0.600 | 334.0 | 100 | 135 | 5.4 | 177 |
| 110 | 100 | 10 | **753 050 814** | 1.208 | 453.7 | 150 | 165 | 6.6 | 243 |
| 125 | 100 | 10 | **753 050 815** | 1.540 | 476.1 | 150 | 188 | 7.4 | 253 |
| 140 | 125 | 10 | **753 050 816** | 1.720 | 496.8 | 150 | 210 | 8.3 | 262 |
| 160 | 150 | 10 | **753 050 817** | 2.200 | 524.3 | 150 | 240 | 9.5 | 274 |
| 180 | 150 | 10 | **753 050 818** | 3.000 | 553.6 | 150 | 270 | 10.7 | 287 |
| 200 | 200 | 10 | **753 050 819** | 3.700 | 581.1 | 150 | 300 | 11.9 | 299 |
| 225 | 200 | 10 | **753 050 820** | 5.000 | 617.3 | 150 | 338 | 13.4 | 315 |
| 250 | 250 | 10 | **753 050 821** | 10.691 | 839.5 | 250 | 375 | 14.8 | 440 |
| 280 | 250 | 10 | **753 050 822** | 15.000 | 884.3 | 250 | 420 | 16.6 | 460 |
| 315 | 300 | 10 | **753 050 823** | 17.800 | 1024.7 | 250 | 473 | 18.7 | 535 |
| 355 | 350 | 10 | **753 050 824** | 25.600 | 1183.9 | 300 | 533 | 21.1 | 620 |
| 400 | 400 | 10 | **753 050 825** | 36.600 | 1251.0 | 300 | 600 | 23.7 | 650 |
| 450 | 450 | 10 | **753 050 826** | 45.300 | 1319.9 | 300 | 675 | 26.7 | 680 |
| 500 | 500 | 10 | **753 050 827** | 62.400 | 1474.2 | 350 | 750 | 29.7 | 760 |
| 560 | 600 | 10 | **753 050 828** | 81.900 | 1563.7 | 350 | 840 | 33.2 | 800 |
| 630 | 600 | 10 | **753 050 829** | 197.000 | 1707.9 | 350 | 945 | 37.4 | 870 |
| 710 | 700 | 10 | **753 050 830** | 190.200 | 1787.4 | 400 | 1065 | 42.1 | 900 |
| 800 | 800 | 10 | **753 050 831** | 218.100 | 1904.6 | 400 | 1200 | 47.4 | 950 |
| 900 | 900 | 10 | **753 050 832** | 324.900 | 2281.4 | 450 | 1350 | 53.3 | 1150 |
| 1000 | 1000 | 10 | **753 050 833** | 421.000 | 2402.1 | 450 | 1500 | 59.3 | 1200 |



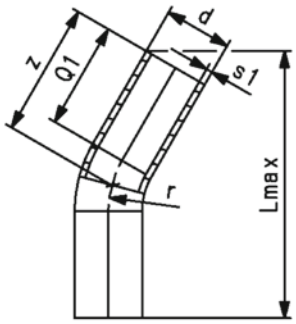



## ELGEF Plus Bend 30° PE100
## d32-900mm / SDR11 / Long version

- 16 bar Water
- Made out of seamless pipe
- Bends made out of seamless pipe shall not be shortened
- Radius 1.5 x d

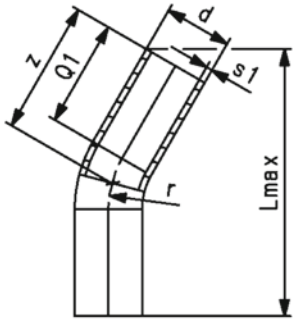
| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | r (mm) | s1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 32 | 25 | 16 | **753 061 008** | 0.077 | 218.9 | 80 | 48 | 2.9 | 113 |
| 40 | 32 | 16 | **753 061 009** | 0.120 | 226.5 | 80 | 60 | 3.7 | 116 |
| 50 | 40 | 16 | **753 061 010** | 0.200 | 273.7 | 100 | 75 | 4.6 | 140 |
| 63 | 50 | 16 | **753 061 011** | 0.400 | 295.7 | 100 | 95 | 5.8 | 150 |
| 75 | 65 | 16 | **753 061 012** | 0.520 | 308.0 | 100 | 113 | 6.8 | 155 |
| 90 | 80 | 16 | **753 061 013** | 0.760 | 321.1 | 100 | 135 | 8.2 | 160 |
| 110 | 100 | 16 | **753 061 014** | 1.689 | 436.2 | 150 | 165 | 10.0 | 219 |
| 125 | 100 | 16 | **753 061 015** | 2.096 | 451.1 | 150 | 188 | 11.4 | 225 |
| 140 | 125 | 16 | **753 061 016** | 2.200 | 466.1 | 150 | 210 | 12.7 | 231 |
| 160 | 150 | 16 | **753 061 017** | 3.650 | 486.0 | 150 | 240 | 14.6 | 239 |
| 180 | 150 | 16 | **753 061 018** | 4.782 | 505.9 | 150 | 270 | 16.4 | 247 |
| 200 | 200 | 16 | **753 061 019** | 5.777 | 525.8 | 150 | 300 | 18.2 | 255 |
| 225 | 200 | 16 | **753 061 020** | 6.300 | 552.6 | 150 | 338 | 20.5 | 266 |
| 250 | 250 | 16 | **753 061 021** | 13.100 | 780.9 | 250 | 375 | 22.7 | 385 |
| 280 | 250 | 16 | **753 061 022** | 16.300 | 816.4 | 250 | 420 | 25.4 | 400 |
| 315 | 300 | 16 | **753 061 023** | 21.850 | 937.1 | 250 | 473 | 28.6 | 460 |
| 355 | 350 | 16 | **753 061 024** | 34.900 | 1096.4 | 300 | 533 | 32.3 | 540 |
| 400 | 400 | 16 | **753 061 025** | 45.900 | 1145.0 | 300 | 600 | 36.4 | 560 |
| 450 | 450 | 16 | **753 061 026** | 60.200 | 1194.8 | 300 | 675 | 40.9 | 580 |
| 500 | 500 | 16 | **753 061 027** | 83.300 | 1300.6 | 350 | 750 | 45.5 | 630 |
| 560 | 600 | 16 | **753 061 028** | 108.600 | 1408.9 | 350 | 840 | 50.9 | 680 |

table continued on the next page




| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | r (mm) | s1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 630 | 600 | 16 | **753 061 029** | 148.300 | 1519.7 | 350 | 945 | 57.3 | 730 |
| 710 | 700 | 16 | **753 061 030** | 267.000 | 1856.9 | 400 | 1065 | 64.5 | 900 |
| 800 | 800 | 16 | **753 061 031** | 295.500 | 1972.7 | 400 | 1200 | 72.6 | 950 |
| 900 | 900 | 16 | **753 061 032** | 550.000 | 2370.9 | 400 | 1350 | 81.8 | 1150 |



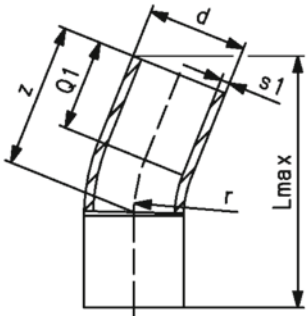



## ELGEF Plus Bend 30° PE100
## d90-1000mm / SDR17 / Long version

- 10 bar Water
- Made out of seamless pipe
- Bends made out of seamless pipe shall not be shortened
- Radius 1.5 x d

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | r (mm) | s1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 90 | 80 | 10 | **753 060 813** | 0.500 | 321.1 | 100 | 135 | 5.4 | 160 |
| 110 | 100 | 10 | **753 060 814** | 1.060 | 436.2 | 150 | 165 | 6.6 | 219 |
| 125 | 100 | 10 | **753 060 815** | 1.100 | 451.1 | 150 | 188 | 7.4 | 225 |
| 140 | 125 | 10 | **753 060 816** | 1.720 | 466.1 | 150 | 210 | 8.3 | 231 |
| 160 | 150 | 10 | **753 060 817** | 2.565 | 486.0 | 150 | 240 | 9.5 | 239 |
| 180 | 150 | 10 | **753 060 818** | 3.389 | 505.9 | 150 | 270 | 10.7 | 247 |
| 200 | 200 | 10 | **753 060 819** | 4.213 | 525.8 | 150 | 300 | 11.9 | 255 |
| 225 | 200 | 10 | **753 060 820** | 7.540 | 552.6 | 150 | 338 | 13.4 | 266 |
| 250 | 250 | 10 | **753 060 821** | 11.600 | 780.9 | 250 | 375 | 14.8 | 385 |
| 280 | 250 | 10 | **753 060 822** | 12.800 | 816.4 | 250 | 420 | 16.6 | 400 |
| 315 | 300 | 10 | **753 060 823** | 25.000 | 937.1 | 250 | 473 | 18.7 | 460 |
| 355 | 350 | 10 | **753 060 824** | 22.700 | 1096.4 | 300 | 533 | 21.1 | 540 |
| 400 | 400 | 10 | **753 060 825** | 29.800 | 1145.0 | 300 | 600 | 23.7 | 560 |
| 450 | 450 | 10 | **753 060 826** | 39.100 | 1194.8 | 300 | 675 | 26.7 | 580 |
| 500 | 500 | 10 | **753 060 827** | 54.000 | 1337.9 | 350 | 750 | 29.7 | 650 |
| 560 | 600 | 10 | **753 060 828** | 70.300 | 1408.9 | 350 | 840 | 33.2 | 680 |
| 630 | 600 | 10 | **753 060 829** | 95.800 | 1519.7 | 350 | 945 | 37.4 | 730 |
| 710 | 700 | 10 | **753 060 830** | 177.000 | 1865.9 | 400 | 1065 | 42.1 | 900 |
| 800 | 800 | 10 | **753 060 831** | 195.600 | 1972.7 | 400 | 1200 | 47.4 | 950 |
| 900 | 900 | 10 | **753 060 832** | 242.200 | 2370.9 | 450 | 1350 | 53.3 | 1150 |
| 1000 | 1000 | 10 | **753 060 833** | 421.000 | 2489.2 | 450 | 1500 | 59.3 | 1200 |



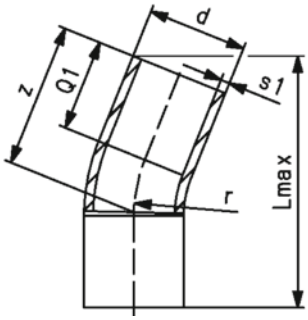



## ELGEF Plus Bend 22° PE100
## d32-900mm / SDR11 / Long version

- 16 bar Water
- Made out of seamless pipe
- Bends made out of seamless pipe shall not be shortened
- Radius 1.5 x d

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | r (mm) | s1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 32 | 25 | 16 | **753 081 008** | 0.077 | 223.8 | 80 | 48 | 2.9 | 113 |
| 40 | 32 | 16 | **753 081 009** | 0.120 | 231.0 | 80 | 60 | 3.7 | 116 |
| 50 | 40 | 16 | **753 081 010** | 0.200 | 279.2 | 100 | 75 | 4.6 | 140 |
| 63 | 50 | 16 | **753 081 011** | 0.400 | 300.9 | 100 | 95 | 5.8 | 150 |
| 75 | 65 | 16 | **753 081 012** | 0.520 | 312.8 | 100 | 113 | 6.8 | 155 |
| 90 | 80 | 16 | **753 081 013** | 0.760 | 325.2 | 100 | 135 | 8.2 | 160 |
| 110 | 100 | 16 | **753 081 014** | 1.500 | 442.7 | 150 | 165 | 10.0 | 219 |
| 125 | 100 | 16 | **753 081 015** | 2.000 | 457.0 | 150 | 188 | 11.4 | 225 |
| 140 | 125 | 16 | **753 081 016** | 2.200 | 471.4 | 150 | 210 | 12.7 | 231 |
| 160 | 150 | 16 | **753 081 017** | 3.300 | 490.6 | 150 | 240 | 14.6 | 239 |
| 180 | 150 | 16 | **753 081 018** | 3.700 | 509.7 | 150 | 270 | 16.4 | 247 |
| 200 | 200 | 16 | **753 081 019** | 4.750 | 528.9 | 150 | 300 | 18.2 | 255 |
| 225 | 200 | 16 | **753 081 020** | 6.300 | 554.8 | 150 | 338 | 20.5 | 266 |
| 250 | 250 | 16 | **753 081 021** | 14.015 | 788.8 | 250 | 375 | 22.7 | 385 |
| 280 | 250 | 16 | **753 081 022** | 18.510 | 823.3 | 250 | 420 | 25.4 | 400 |
| 315 | 300 | 16 | **753 081 023** | 21.845 | 945.5 | 250 | 473 | 28.6 | 460 |
| 355 | 350 | 16 | **753 081 024** | 34.900 | 1107.2 | 300 | 533 | 32.3 | 540 |
| 400 | 400 | 16 | **753 081 025** | 45.900 | 1154.1 | 300 | 600 | 36.4 | 560 |
| 450 | 450 | 16 | **753 081 026** | 60.200 | 1202.1 | 300 | 675 | 10.9 | 580 |
| 500 | 500 | 16 | **753 081 027** | 83.300 | 1346.3 | 350 | 750 | 45.5 | 650 |
| 560 | 600 | 16 | **753 081 028** | 108.600 | 1415.4 | 350 | 840 | 50.9 | 680 |
| 630 | 600 | 16 | **753 081 029** | 148.300 | 1524.8 | 350 | 945 | 57.3 | 730 |
| 710 | 700 | 16 | **753 081 030** | 267.000 | 1867.5 | 400 | 1065 | 64.5 | 900 |
| 800 | 800 | 16 | **753 081 031** | 292.500 | 1980.7 | 400 | 1200 | 72.6 | 950 |
| 900 | 900 | 16 | **753 081 032** | 506.400 | 2384.8 | 400 | 1350 | 81.8 | 1150 |



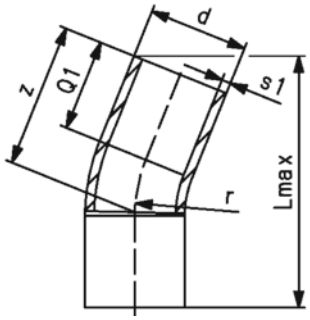



## ELGEF Plus Bend 22° PE100
## d32-900mm / SDR17 / Long version

- 10 bar Water
- Made out of seamless pipe
- Bends made out of seamless pipe shall not be shortened
- Radius 1.5 x d

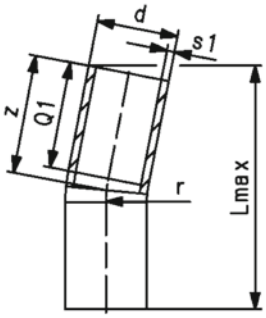
| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | r (mm) | s1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 90 | 80 | 10 | **753 080 813** | 0.500 | 325.2 | 100 | 135 | 5 | 160 |
| 110 | 100 | 10 | **753 080 814** | 1.060 | 442.7 | 150 | 165 | 7 | 219 |
| 125 | 100 | 10 | **753 080 815** | 1.100 | 457.0 | 150 | 188 | 7 | 225 |
| 140 | 125 | 10 | **753 080 816** | 1.720 | 471.4 | 150 | 210 | 8 | 231 |
| 160 | 150 | 10 | **753 080 817** | 1.900 | 490.6 | 150 | 240 | 10 | 239 |
| 180 | 150 | 10 | **753 080 818** | 3.318 | 509.7 | 150 | 270 | 11 | 247 |
| 200 | 200 | 10 | **753 080 819** | 3.200 | 528.9 | 150 | 300 | 12 | 255 |
| 225 | 200 | 10 | **753 080 820** | 5.431 | 554.8 | 150 | 338 | 13 | 266 |
| 250 | 250 | 10 | **753 080 821** | 9.904 | 788.8 | 250 | 375 | 15 | 385 |
| 280 | 250 | 10 | **753 080 822** | 12.800 | 823.3 | 250 | 420 | 17 | 400 |
| 315 | 300 | 10 | **753 080 823** | 14.144 | 945.5 | 250 | 473 | 19 | 460 |
| 355 | 350 | 10 | **753 080 824** | 22.700 | 1107.2 | 300 | 533 | 21 | 540 |
| 400 | 400 | 10 | **753 080 825** | 29.800 | 1154.1 | 300 | 600 | 24 | 560 |
| 450 | 450 | 10 | **753 080 826** | 39.100 | 1202.1 | 300 | 675 | 27 | 580 |
| 500 | 500 | 10 | **753 080 827** | 54.000 | 1346.3 | 350 | 750 | 30 | 650 |
| 560 | 600 | 10 | **753 080 828** | 70.300 | 1415.4 | 350 | 840 | 33 | 680 |
| 630 | 600 | 10 | **753 080 829** | 95.800 | 1524.8 | 350 | 945 | 37 | 730 |

table continued on the next page




| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | r (mm) | s1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 710 | 700 | 10 | **753 080 830** | 177.000 | 1867.5 | 400 | 1065 | 42 | 900 |
| 800 | 800 | 10 | **753 080 831** | 195.600 | 1980.7 | 400 | 1200 | 47 | 950 |
| 900 | 900 | 10 | **753 080 832** | 231.900 | 2384.8 | 450 | 1350 | 53 | 1150 |
| 1000 | 1000 | 10 | **753 080 833** | 421.000 | 2499.9 | 450 | 1500 | 59 | 1200 |



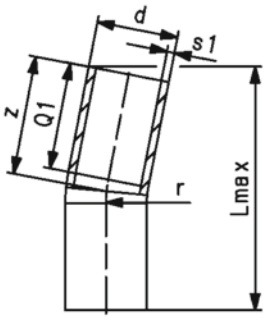



## ELGEF Plus Bend 11° PE100
## d32-900mm / SDR11 / Long version

- 16 bar Water
- Made out of seamless pipe
- Bends made out of seamless pipe shall not be shortened
- Radius 1.5 x d

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | r (mm) | s1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 32 | 25 | 16 | **753 091 008** | 0.077 | 227.0 | 80 | 48 | 2.9 | 113 |
| 40 | 32 | 16 | **753 091 009** | 0.120 | 233.7 | 80 | 60 | 3.7 | 116 |
| 50 | 40 | 16 | **753 091 010** | 0.200 | 282.2 | 100 | 75 | 4.6 | 140 |
| 63 | 50 | 16 | **753 091 011** | 0.400 | 303.3 | 100 | 95 | 5.8 | 150 |
| 75 | 65 | 16 | **753 091 012** | 0.520 | 314.3 | 100 | 113 | 6.8 | 155 |
| 90 | 80 | 16 | **753 091 013** | 0.760 | 325.6 | 100 | 135 | 8.2 | 160 |
| 110 | 100 | 16 | **753 091 014** | 1.500 | 444.5 | 150 | 165 | 10.0 | 219 |
| 125 | 100 | 16 | **753 091 015** | 2.000 | 457.8 | 150 | 188 | 11.4 | 225 |
| 140 | 125 | 16 | **753 091 016** | 2.200 | 471.1 | 150 | 210 | 12.7 | 231 |
| 160 | 150 | 16 | **753 091 017** | 3.300 | 488.9 | 150 | 240 | 14.6 | 239 |
| 180 | 150 | 16 | **753 091 018** | 3.700 | 506.6 | 150 | 270 | 16.4 | 247 |
| 200 | 200 | 16 | **753 091 019** | 4.750 | 524.4 | 150 | 300 | 18.2 | 255 |
| 225 | 200 | 16 | **753 091 020** | 7.773 | 548.6 | 150 | 338 | 20.5 | 266 |
| 250 | 250 | 16 | **753 091 021** | 13.100 | 786.8 | 250 | 375 | 22.7 | 385 |
| 280 | 250 | 16 | **753 091 022** | 16.300 | 819.4 | 250 | 420 | 25.4 | 400 |
| 315 | 300 | 16 | **753 091 023** | 21.845 | 941.6 | 250 | 473 | 28.6 | 460 |
| 355 | 350 | 16 | **753 091 024** | 34.900 | 1103.9 | 300 | 533 | 32.3 | 540 |
| 400 | 400 | 16 | **753 091 025** | 45.900 | 1147.9 | 300 | 600 | 36.4 | 560 |
| 450 | 450 | 16 | **753 091 026** | 60.200 | 1192.3 | 300 | 675 | 40.9 | 580 |
| 500 | 500 | 16 | **753 091 027** | 83.300 | 1335.8 | 350 | 750 | 45.5 | 650 |
| 560 | 600 | 16 | **753 091 028** | 108.600 | 1400.9 | 350 | 840 | 50.9 | 680 |
| 630 | 600 | 16 | **753 091 029** | 148.300 | 1506.7 | 350 | 945 | 57.3 | 730 |
| 710 | 700 | 16 | **753 091 030** | 267.000 | 1851.2 | 400 | 1065 | 64.5 | 900 |
| 800 | 800 | 16 | **753 091 031** | 292.500 | 1958.9 | 400 | 1200 | 72.6 | 950 |
| 900 | 900 | 16 | **753 091 032** | 506.400 | 2364.7 | 400 | 1350 | 81.8 | 1150 |





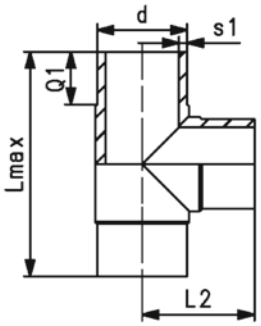

### ELGEF Plus Bend 11° PE100
### d90-1000mm / SDR17 / Long version

- 10 bar Water
- Made out of seamless pipe
- Bends made out of seamless pipe shall not be shortened
- Radius 1.5 x d

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | r (mm) | s1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 90 | 80 | 10 | **753 090 813** | 0.500 | 325.6 | 100 | 135 | 5.4 | 160 |
| 110 | 100 | 10 | **753 090 814** | 1.060 | 444.5 | 150 | 165 | 6.6 | 219 |
| 125 | 100 | 10 | **753 090 815** | 1.100 | 457.8 | 150 | 188 | 7.4 | 225 |
| 140 | 125 | 10 | **753 090 816** | 1.720 | 471.1 | 150 | 210 | 8.3 | 231 |
| 160 | 150 | 10 | **753 090 817** | 2.653 | 488.9 | 150 | 240 | 9.5 | 239 |
| 180 | 150 | 10 | **753 090 818** | 2.500 | 506.6 | 150 | 270 | 10.7 | 247 |
| 200 | 200 | 10 | **753 090 819** | 4.308 | 524.4 | 150 | 300 | 11.9 | 255 |
| 225 | 200 | 10 | **753 090 820** | 7.540 | 548.6 | 150 | 338 | 13.4 | 266 |
| 250 | 250 | 10 | **753 090 821** | 11.600 | 767.0 | 250 | 375 | 14.8 | 385 |
| 280 | 250 | 10 | **753 090 822** | 12.800 | 819.4 | 250 | 420 | 16.6 | 400 |
| 315 | 300 | 10 | **753 090 823** | 25.000 | 914.6 | 250 | 473 | 18.7 | 460 |
| 355 | 350 | 10 | **753 090 824** | 22.700 | 1103.9 | 300 | 533 | 21.1 | 540 |
| 400 | 400 | 10 | **753 090 825** | 29.800 | 1147.9 | 300 | 600 | 23.7 | 560 |
| 450 | 450 | 10 | **753 090 826** | 39.100 | 1192.3 | 300 | 675 | 26.7 | 580 |
| 500 | 500 | 10 | **753 090 827** | 54.000 | 1335.8 | 350 | 750 | 29.7 | 650 |
| 560 | 600 | 10 | **753 090 828** | 70.300 | 1400.9 | 350 | 840 | 33.2 | 680 |
| 630 | 600 | 10 | **753 090 829** | 95.800 | 1506.7 | 350 | 945 | 37.4 | 730 |
| 710 | 700 | 10 | **753 090 830** | 177.000 | 1851.2 | 400 | 1065 | 42.1 | 900 |
| 800 | 800 | 10 | **753 090 831** | 195.600 | 1958.9 | 400 | 1200 | 47.4 | 950 |
| 900 | 900 | 10 | **753 090 832** | 187.500 | 2364.7 | 450 | 1350 | 53.3 | 1150 |
| 1000 | 1000 | 10 | **753 090 833** | 421.000 | 2473.4 | 450 | 1500 | 59.3 | 1200 |

## Tees






### ELGEF Plus Tee 90° equal PE100
### d20-800mm / SDR11 / Long version

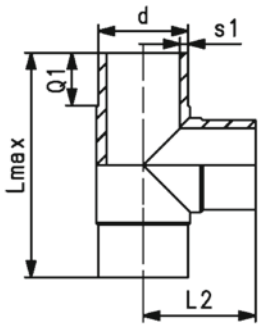
- 10 bar Gas / 16 bar Water

* Machined with welded pipes

** FM 1613 approved - PN 15

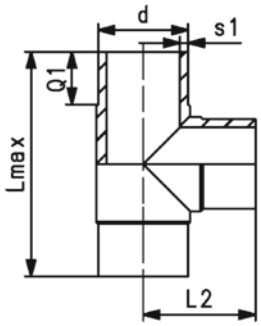
| | d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | L2 (mm) | Lmax (mm) | Q1 (mm) | s1 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| | 20 | 15 | 16 | **753 201 006** | 0.038 | 75 | 150 | 52 | 3.0 |
| | 25 | 20 | 16 | **753 201 007** | 0.054 | 80 | 160 | 52 | 3.0 |
| | 32 | 25 | 16 | **753 201 008** | 0.077 | 85 | 170 | 54 | 3.0 |
| | 40 | 32 | 16 | **753 201 009** | 0.130 | 95 | 190 | 57 | 3.7 |
| | 50 | 40 | 16 | **753 201 010** | 0.214 | 105 | 210 | 63 | 4.6 |
| | 63 | 50 | 16 | **753 201 011** | 0.376 | 115 | 230 | 65 | 5.8 |
| | 75 | 65 | 16 | **753 201 012** | 0.599 | 132 | 264 | 72 | 6.8 |
| ** | 90 | 80 | 16 | **753 201 013** | 1.021 | 150 | 300 | 81 | 8.2 |
| ** | 110 | 100 | 16 | **753 201 014** | 1.612 | 165 | 330 | 86 | 10.0 |
| ** | 125 | 100 | 16 | **753 201 015** | 2.420 | 183 | 366 | 92 | 11.4 |
| ** | 140 | 125 | 16 | **753 201 016** | 3.090 | 193 | 393 | 92 | 12.7 |
| ** | 160 | 150 | 16 | **753 201 017** | 4.403 | 210 | 420 | 102 | 14.6 |
| ** | 180 | 150 | 16 | **753 201 018** | 6.014 | 230 | 460 | 107 | 16.4 |
| ** | 200 | 200 | 16 | **753 201 019** | 8.480 | 250 | 500 | 117 | 18.2 |
| ** | 225 | 200 | 16 | **753 201 020** | 11.507 | 270 | 540 | 122 | 20.5 |
| ** | 250 | 250 | 16 | **753 201 001** | 14.099 | 288 | 575 | 130 | 22.7 |
| ** | 280 | 250 | 16 | **753 200 902** | 18.670 | 308 | 615 | 139 | 25.4 |
| ** | 315 | 300 | 16 | **753 200 903** | 26.150 | 346 | 695 | 150 | 28.6 |
| | 355 | 350 | 16 | **753 200 024** | 38.900 | 410 | 820 | 170 | 32.3 |
| | 400 | 400 | 16 | **753 200 025** | 53.400 | 450 | 900 | 190 | 36.4 |

table continued on the next page




| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | L2 (mm) | Lmax (mm) | Q1 (mm) | s1 (mm) |
|---|---|---|---|---|---|---|---|---|
| 450 | 450 | 16 | **753 200 026** | 73.400 | 490 | 980 | 200 | 40.9 |
| 500 | 500 | 16 | **753 200 027** | 98.500 | 535 | 1070 | 220 | 45.5 |
| 560 | 600 | 16 | **753 200 028** | 142.000 | 600 | 1200 | 245 | 50.9 |
| 630 | 600 | 16 | **753 200 029** | 205.500 | 650 | 1300 | 265 | 57.3 |





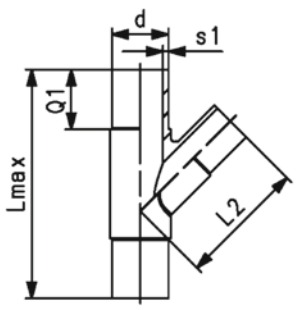

## ELGEF Plus Tee 90° equal PE100
## d90-800mm / SDR17 / Long version

- 5 bar Gas / 10 bar Water

* Machined with welded pipes

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | L2 (mm) | Lmax (mm) | Q1 (mm) | s1 (mm) |
|---|---|---|---|---|---|---|---|---|
| 90 | 80 | 10 | **753 200 813** | 0.777 | 150 | 300 | 80 | 5.4 |
| 110 | 100 | 10 | **753 200 814** | 1.231 | 165 | 330 | 86 | 6.6 |
| 125 | 100 | 10 | **753 200 815** | 1.690 | 183 | 366 | 92 | 7.4 |
| 140 | 125 | 10 | **753 200 816** | 2.202 | 196 | 396 | 92 | 8.3 |
| 160 | 150 | 10 | **753 200 817** | 3.201 | 214 | 428 | 104 | 9.5 |
| 180 | 150 | 10 | **753 200 818** | 4.287 | 230 | 460 | 105 | 10.7 |
| 200 | 200 | 10 | **753 200 819** | 5.889 | 250 | 500 | 115 | 11.9 |
| 225 | 200 | 10 | **753 200 820** | 7.886 | 270 | 540 | 122 | 13.4 |
| 250 | 250 | 10 | **753 200 821** | 10.000 | 288 | 575 | 130 | 14.8 |
| 280 | 250 | 10 | **753 200 802** | 13.350 | 308 | 612 | 139 | 16.6 |
| 315 | 300 | 10 | **753 200 803** | 17.985 | 346 | 695 | 150 | 18.7 |
| 355 | 350 | 10 | **753 200 124** | 26.100 | 410 | 820 | 170 | 21.1 |
| 400 | 400 | 10 | **753 200 125** | 35.700 | 450 | 900 | 190 | 23.7 |
| 450 | 450 | 10 | **753 200 126** | 49.400 | 490 | 980 | 200 | 26.7 |
| 500 | 500 | 10 | **753 200 127** | 66.100 | 535 | 1070 | 220 | 29.7 |
| 560 | 600 | 10 | **753 200 128** | 132.000 | 600 | 1200 | 245 | 33.2 |
| 630 | 600 | 10 | **753 200 129** | 139.000 | 650 | 1300 | 265 | 37.4 |



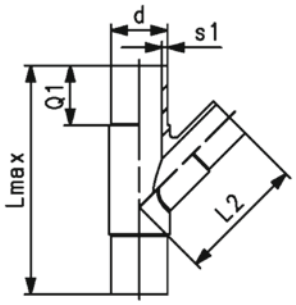



## ELGEF Plus Tee 45° equal PE100
## d50-110mm / SDR11 / Long version

- 10 bar Gas / 16 bar Water

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | L2 (mm) | Lmax (mm) | Q1 (mm) | s1 (mm) |
|---|---|---|---|---|---|---|---|---|
| 50 | 40 | 16 | **753 251 010** | 0.300 | 139 | 218 | 56 | 4.6 |
| 63 | 50 | 16 | **753 251 011** | 0.440 | 156 | 255 | 65 | 6.2 |
| 75 | 65 | 16 | **753 251 012** | 0.800 | 190 | 299 | 77 | 6.8 |
| 90 | 80 | 16 | **753 251 013** | 1.373 | 234 | 367 | 85 | 8.2 |
| 110 | 100 | 16 | **753 251 014** | 1.800 | 260 | 397 | 90 | 10.0 |



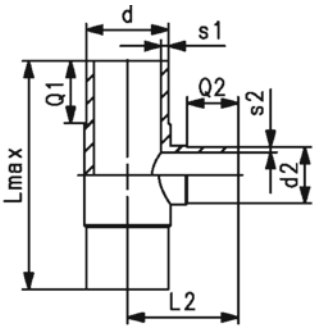



## ELGEF Plus Tee 45° equal PE100
## d90-110mm / SDR17 / Long version

- 5 bar Gas / 10 bar Water

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | L2 (mm) | Lmax (mm) | Q1 (mm) | s1 (mm) |
|---|---|---|---|---|---|---|---|---|
| 90 | 80 | 10 | **753 251 063** | 0.800 | 236 | 371 | 88 | 5.4 |
| 110 | 100 | 10 | **753 251 064** | 1.400 | 259 | 400 | 92 | 6.6 |






## ELGEF Plus Tee 90° reduced PE100
## d63-d315mm / SDR11 / Long version

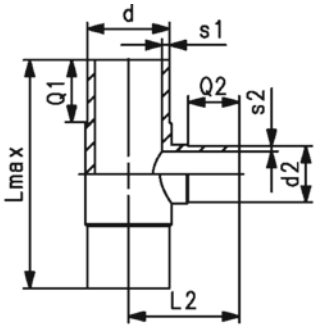
**Model:**

- 10 bar Gas / 16 bar Water
- Fittings are injection moulded

* FM 1613 approved - 15 bar

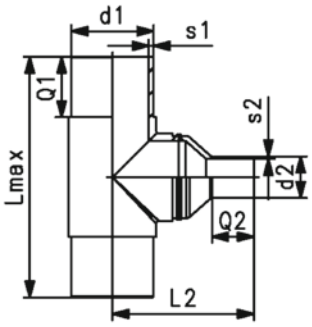
| d (mm) | d2 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | L2 (mm) | Lmax (mm) | Q1 (mm) | Q2 (mm) | s1 (mm) | s2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 32 | 50 | 16 | **753 201 022** | 0.300 | 86 | 218 | 65 | 47 | 5.8 | 3.0 |
| 63 | 40 | 50 | 16 | **753 201 026** | 0.312 | 107 | 230 | 67 | 58 | 5.8 | 3.7 |
| 63 | 50 | 50 | 16 | **753 201 021** | 0.300 | 100 | 218 | 65 | 59 | 5.8 | 4.6 |
| 75 | 32 | 65 | 16 | **753 201 023** | 0.455 | 98 | 248 | 73 | 46 | 6.8 | 3.0 |
| 75 | 50 | 65 | 16 | **753 201 024** | 0.485 | 109 | 248 | 73 | 58 | 6.8 | 4.6 |
| 75 | 63 | 65 | 16 | **753 201 025** | 0.520 | 118 | 248 | 73 | 65 | 6.8 | 5.8 |
| 90 | 50 | 80 | 16 | **753 201 027** | 0.794 | 120 | 280 | 79 | 55 | 8.2 | 4.6 |
| 90 | 63 | 80 | 16 | **753 201 029** | 0.775 | 127 | 282 | 79 | 63 | 8.2 | 5.8 |
| 90 | 75 | 80 | 16 | **753 201 055** | 0.800 | 132 | 286 | 80 | 75 | 8.2 | 6.8 |
| 110 | 63 | 100 | 16 | **753 201 028** | 1.409 | 148 | 322 | 87 | 63 | 10.0 | 5.8 |
| 110 | 75 | 100 | 16 | **753 201 131** | 1.382 | 155 | 324 | 85 | 74 | 10.0 | 6.8 |
| 110 | 90 | 100 | 16 | **753 201 032** | 1.275 | 164 | 322 | 86 | 79 | 10.0 | 8.2 |
| 125 | 90 | 100 | 16 | **753 201 132** | 1.997 | 165 | 354 | 90 | 82 | 11.4 | 8.2 |
| 125 | 110 | 100 | 16 | **753 201 133** | 2.097 | 167 | 350 | 90 | 85 | 11.4 | 10.0 |
| 160 | 63 | 150 | 16 | **753 201 034** | 2.680 | 174 | 416 | 105 | 65 | 14.6 | 5.8 |
| 160 | 75 | 150 | 16 | **753 201 880** | 2.295 | 180 | 410 | 103 | 73 | 14.6 | 6.8 |
| 160 | 90 | 150 | 16 | **753 201 036** | 2.775 | 190 | 415 | 101 | 79 | 14.6 | 8.2 |
| 160 | 110 | 150 | 16 | **753 201 037** | 3.300 | 200 | 415 | 101 | 82 | 14.6 | 10.0 |
| 180 | 90 | 150 | 16 | **753 201 881** | 4.857 | 200 | 476 | 108 | 82 | 16.4 | 8.2 |
| 180 | 110 | 150 | 16 | **753 201 882** | 4.750 | 202 | 480 | 107 | 84 | 16.4 | 10.0 |
| 180 | 160 | 150 | 16 | **753 201 883** | 4.715 | 220 | 480 | 110 | 101 | 16.4 | 14.6 |
| 200 | 63 | 200 | 16 | **753 201 073** | 7.300 | 196 | 503 | 122 | 63 | 18.2 | 5.8 |
| 200 | 90 | 200 | 16 | **753 201 074** | 9.730 | 216 | 500 | 122 | 79 | 18.2 | 8.2 |
| 200 | 110 | 200 | 16 | **753 201 075** | 7.120 | 219 | 505 | 122 | 82 | 18.2 | 10.0 |
| 200 | 160 | 200 | 16 | **753 201 076** | 9.730 | 237 | 500 | 122 | 92 | 18.2 | 14.6 |
| 225 | 75 | 200 | 16 | **753 201 039** | 9.880 | 219 | 560 | 120 | 70 | 20.5 | 6.8 |
| 225 | 90 | 200 | 16 | **753 201 040** | 6.633 | 228 | 555 | 120 | 80 | 20.5 | 8.2 |
| 225 | 110 | 200 | 16 | **753 201 041** | 10.010 | 238 | 559 | 120 | 82 | 20.5 | 10.0 |
| 225 | 160 | 200 | 16 | **753 201 042** | 8.095 | 258 | 555 | 120 | 98 | 20.5 | 14.6 |

table continued on the next page




| | d (mm) | d2 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | L2 (mm) | Lmax (mm) | Q1 (mm) | Q2 (mm) | s1 (mm) | s2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 225 | 180 | 200 | 16 | **753 201 043** | 9.375 | 284 | 559 | 120 | 105 | 20.5 | 16.4 |
| | 250 | 110 | 250 | 16 | **753 201 078** | 11.820 | 284 | 584 | 130 | 82 | 22.7 | 10.0 |
| | 250 | 160 | 250 | 16 | **753 201 079** | 12.302 | 266 | 586 | 127 | 98 | 22.7 | 14.6 |
| * | 315 | 90 | 300 | 16 | **753 201 154** | 16.700 | 165 | 520 | 90 | 83 | 28.6 | 8.2 |
| * | 315 | 110 | 300 | 16 | **753 201 051** | 15.300 | 282 | 705 | 150 | 82 | 28.6 | 10.0 |
| | 315 | 160 | 300 | 16 | **753 201 052** | 22.998 | 301 | 705 | 150 | 102 | 28.6 | 14.6 |
| | 315 | 200 | 300 | 16 | **753 201 152** | 18.710 | 313 | 680 | 155 | 117 | 28.6 | 18.2 |
| | 315 | 225 | 300 | 16 | **753 201 153** | 20.160 | 320 | 680 | 153 | 125 | 28.6 | 20.5 |
| | 315 | 250 | 300 | 16 | **753 201 054** | 24.243 | 331 | 695 | 150 | 130 | 28.6 | 22.7 |



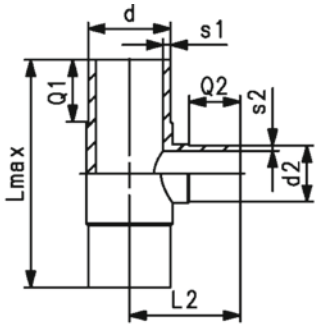



## ELGEF Plus Tee 90° reduced PE100
## d25-400mm / SDR11 / Welded reducer / Long version

- 10 bar Gas / 16 bar Water

| d1 (mm) | d2 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | L2 (mm) | Lmax (mm) | Q1 (mm) | Q2 (mm) | s1 (mm) | s2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 20 | 20 | 16 | **753 201 002** | 0.053 | 101 | 160 | 52 | 52 | 3.0 | 3.0 |
| 32 | 20 | 25 | 16 | **753 201 003** | 0.094 | 105 | 170 | 54 | 52 | 3.0 | 3.0 |
| 32 | 25 | 25 | 16 | **753 201 004** | 0.098 | 110 | 170 | 54 | 52 | 3.0 | 3.0 |
| 40 | 20 | 32 | 16 | **753 201 005** | 0.124 | 120 | 190 | 57 | 52 | 3.7 | 3.0 |
| 40 | 25 | 32 | 16 | **753 201 069** | 0.160 | 120 | 190 | 57 | 52 | 3.7 | 3.0 |
| 40 | 32 | 32 | 16 | **753 201 070** | 0.160 | 120 | 190 | 57 | 52 | 3.7 | 3.0 |
| 50 | 20 | 40 | 16 | **753 201 072** | 0.252 | 140 | 210 | 63 | 52 | 4.6 | 3.0 |
| 50 | 25 | 40 | 16 | **753 201 077** | 0.203 | 130 | 210 | 63 | 52 | 4.6 | 3.0 |
| 50 | 32 | 40 | 16 | **753 201 080** | 0.207 | 130 | 210 | 63 | 53 | 4.6 | 3.0 |
| 50 | 40 | 40 | 16 | **753 201 081** | 0.224 | 130 | 210 | 63 | 57 | 4.6 | 3.7 |
| 75 | 40 | 65 | 16 | **753 201 084** | 0.603 | 180 | 264 | 72 | 57 | 6.8 | 3.7 |
| 125 | 63 | 100 | 16 | **753 201 085** | 2.359 | 225 | 366 | 92 | 61 | 11.4 | 5.8 |
| 125 | 75 | 100 | 16 | **753 201 086** | 2.434 | 235 | 366 | 92 | 72 | 11.4 | 6.8 |
| 140 | 75 | 125 | 16 | **753 201 087** | 3.038 | 230 | 396 | 92 | 70 | 12.7 | 6.8 |
| 140 | 90 | 125 | 16 | **753 201 089** | 3.092 | 235 | 396 | 92 | 79 | 12.7 | 8.2 |
| 140 | 110 | 125 | 16 | **753 201 090** | 3.208 | 240 | 396 | 92 | 82 | 12.7 | 10.0 |
| 140 | 125 | 125 | 16 | **753 201 091** | 4.170 | 240 | 396 | 92 | 90 | 12.7 | 11.4 |
| 160 | 125 | 150 | 16 | **753 201 092** | 4.544 | 265 | 420 | 102 | 92 | 14.6 | 11.4 |
| 160 | 140 | 150 | 16 | **753 201 093** | 5.895 | 270 | 420 | 102 | 96 | 14.6 | 12.7 |
| 180 | 125 | 150 | 16 | **753 201 094** | 6.111 | 285 | 460 | 107 | 92 | 16.4 | 11.4 |
| 180 | 140 | 150 | 16 | **753 201 095** | 6.317 | 295 | 460 | 107 | 110 | 16.4 | 12.7 |
| 200 | 125 | 200 | 16 | **753 201 096** | 8.424 | 295 | 500 | 117 | 92 | 18.2 | 11.4 |
| 200 | 140 | 200 | 16 | **753 201 097** | 10.570 | 310 | 500 | 117 | 110 | 18.2 | 12.7 |
| 200 | 180 | 200 | 16 | **753 201 098** | 9.031 | 310 | 500 | 117 | 110 | 18.2 | 16.4 |
| 225 | 125 | 200 | 16 | **753 201 099** | 11.260 | 320 | 540 | 122 | 92 | 20.5 | 11.4 |
| 225 | 140 | 200 | 16 | **753 201 100** | 14.574 | 335 | 540 | 122 | 110 | 20.5 | 12.7 |
| 225 | 200 | 200 | 16 | **753 201 101** | 14.925 | 340 | 540 | 122 | 117 | 20.5 | 18.2 |
| 250 | 180 | 250 | 16 | **753 201 102** | 14.327 | 350 | 576 | 130 | 105 | 22.7 | 16.4 |
| 250 | 200 | 250 | 16 | **753 201 103** | 19.220 | 360 | 576 | 130 | 112 | 22.7 | 18.2 |
| 250 | 225 | 250 | 16 | **753 201 104** | 15.240 | 390 | 576 | 130 | 120 | 22.7 | 20.5 |
| 280 | 200 | 250 | 16 | **753 201 105** | 24.520 | 420 | 616 | 139 | 112 | 25.4 | 18.2 |
| 280 | 225 | 250 | 16 | **753 201 106** | 21.755 | 420 | 616 | 139 | 120 | 25.4 | 20.5 |
| 280 | 250 | 250 | 16 | **753 201 107** | 21.055 | 420 | 616 | 139 | 130 | 25.4 | 22.7 |
| 315 | 280 | 300 | 16 | **753 201 109** | 34.950 | 480 | 690 | 150 | 139 | 28.6 | 25.4 |
| 355 | 250 | 350 | 16 | **753 201 110** | 48.900 | 530 | 818 | 165 | 130 | 32.3 | 22.7 |
| 355 | 280 | 350 | 16 | **753 201 111** | 49.300 | 480 | 818 | 165 | 139 | 32.3 | 25.4 |
| 355 | 315 | 350 | 16 | **753 201 112** | 49.690 | 480 | 818 | 165 | 150 | 32.3 | 28.6 |
| 400 | 280 | 400 | 16 | **753 201 113** | 52.915 | 530 | 910 | 180 | 139 | 36.4 | 25.4 |
| 400 | 315 | 400 | 16 | **753 201 114** | 53.625 | 580 | 910 | 180 | 150 | 36.4 | 28.6 |
| 400 | 355 | 400 | 16 | **753 201 115** | 54.075 | 675 | 910 | 180 | 165 | 36.4 | 32.3 |





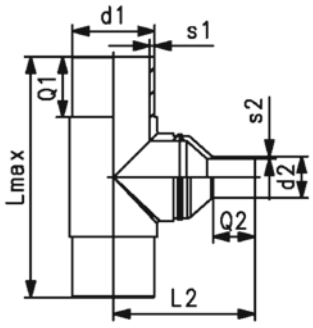

## ELGEF Plus Tee 90° reduced PE100
## d90-d315mm / SDR17 / Long version

**Model:**

- 5 bar Gas / 10 bar Water
- Fittings are injection moulded

| d (mm) | d2 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | L2 (mm) | Lmax (mm) | Q1 (mm) | Q2 (mm) | s1 (mm) | s2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 90 | 50 | 80 | 10 | **753 201 827** | 0.630 | 117 | 275 | 79 | 55 | 5.4 | 3.0 |
| 90 | 63 | 80 | 10 | **753 200 829** | 0.560 | 123 | 275 | 79 | 63 | 5.4 | 3.8 |
| 90 | 75 | 80 | 10 | **753 201 855** | 0.580 | 132 | 286 | 80 | 75 | 5.4 | 4.5 |
| 110 | 63 | 100 | 10 | **753 200 828** | 1.010 | 147 | 318 | 82 | 63 | 6.6 | 3.8 |
| 110 | 75 | 100 | 10 | **753 200 131** | 1.029 | 155 | 324 | 85 | 74 | 6.6 | 4.5 |
| 110 | 90 | 100 | 10 | **753 200 832** | 0.941 | 158 | 318 | 82 | 79 | 6.6 | 5.4 |
| 125 | 90 | 100 | 10 | **753 200 132** | 1.500 | 165 | 354 | 90 | 82 | 7.4 | 5.4 |
| 125 | 110 | 100 | 10 | **753 200 133** | 1.560 | 167 | 354 | 90 | 85 | 7.4 | 6.6 |
| 160 | 63 | 150 | 10 | **753 200 834** | 2.554 | 130 | 330 | 86 | 63 | 9.5 | 3.8 |
| 160 | 75 | 150 | 10 | **753 200 880** | 1.920 | 180 | 420 | 105 | 75 | 9.5 | 4.5 |
| 160 | 90 | 150 | 10 | **753 200 836** | 1.972 | 188 | 410 | 98 | 79 | 9.5 | 5.4 |
| 160 | 110 | 150 | 10 | **753 200 837** | 2.716 | 195 | 410 | 98 | 82 | 9.5 | 6.6 |
| 180 | 90 | 150 | 10 | **753 200 881** | 2.780 | 200 | 484 | 110 | 82 | 10.7 | 5.4 |
| 180 | 110 | 150 | 10 | **753 200 150** | 4.320 | 205 | 486 | 110 | 86 | 10.7 | 6.6 |
| 180 | 160 | 150 | 10 | **753 200 882** | 5.560 | 220 | 484 | 110 | 100 | 18.7 | 9.5 |
| 200 | 63 | 200 | 10 | **753 201 873** | 6.800 | 190 | 500 | 122 | 63 | 11.9 | 3.8 |
| 200 | 90 | 200 | 10 | **753 201 874** | 6.900 | 207 | 500 | 122 | 79 | 11.9 | 5.4 |
| 200 | 110 | 200 | 10 | **753 201 875** | 5.097 | 215 | 500 | 122 | 82 | 11.9 | 6.6 |
| 200 | 160 | 200 | 10 | **753 201 876** | 7.400 | 234 | 500 | 122 | 98 | 11.9 | 9.5 |
| 225 | 75 | 200 | 10 | **753 200 839** | 7.128 | 277 | 555 | 120 | 70 | 13.4 | 4.5 |
| 225 | 90 | 200 | 10 | **753 200 840** | 4.732 | 226 | 555 | 127 | 80 | 13.4 | 5.4 |
| 225 | 110 | 200 | 10 | **753 200 841** | 4.700 | 235 | 555 | 127 | 82 | 13.4 | 6.6 |
| 225 | 160 | 200 | 10 | **753 200 842** | 5.922 | 253 | 555 | 127 | 98 | 13.4 | 9.5 |
| 225 | 180 | 200 | 10 | **753 200 843** | 7.211 | 280 | 550 | 120 | 105 | 13.4 | 10.7 |
| 250 | 110 | 250 | 10 | **753 201 878** | 8.185 | 242 | 575 | 130 | 82 | 14.8 | 6.6 |
| 250 | 160 | 250 | 10 | **753 201 879** | 9.800 | 261 | 575 | 130 | 98 | 14.8 | 9.5 |
| 315 | 110 | 300 | 10 | **753 200 851** | 15.621 | 277 | 695 | 150 | 82 | 18.7 | 6.6 |
| 315 | 160 | 300 | 10 | **753 200 852** | 12.200 | 296 | 695 | 150 | 102 | 18.7 | 9.5 |
| 315 | 200 | 300 | 10 | **753 200 152** | 17.910 | 313 | 690 | 155 | 117 | 18.7 | 11.9 |
| 315 | 225 | 300 | 10 | **753 200 153** | 16.035 | 320 | 690 | 155 | 125 | 18.7 | 13.4 |
| 315 | 250 | 300 | 10 | **753 200 854** | 15.500 | 325 | 695 | 150 | 130 | 18.7 | 14.8 |



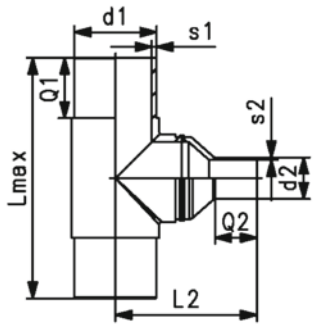



## ELGEF Plus Tee 90° reduced PE100
## d125-400mm / SDR17 / Welded reducer / Long version

- 5 bar Gas / 10 bar Water

| d1 (mm) | d2 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | L2 (mm) | Lmax (mm) | Q1 (mm) | Q2 (mm) | s1 (mm) | s2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 125 | 63 | 100 | 10 | **753 200 801** | 1.752 | 215 | 366 | 92 | 61 | 7.4 | 3.8 |
| 125 | 75 | 100 | 10 | **753 200 810** | 1.806 | 235 | 366 | 92 | 72 | 7.4 | 4.5 |
| 140 | 75 | 125 | 10 | **753 200 812** | 2.820 | 240 | 396 | 92 | 70 | 8.3 | 4.5 |
| 140 | 90 | 125 | 10 | **753 200 822** | 2.211 | 240 | 396 | 92 | 78 | 8.3 | 5.4 |
| 140 | 110 | 125 | 10 | **753 200 823** | 2.266 | 235 | 396 | 92 | 82 | 8.3 | 6.6 |
| 140 | 125 | 125 | 10 | **753 200 824** | 2.317 | 240 | 396 | 92 | 87 | 8.3 | 7.4 |
| 160 | 125 | 150 | 10 | **753 200 825** | 3.311 | 265 | 428 | 104 | 90 | 9.5 | 5.4 |
| 160 | 140 | 150 | 10 | **753 200 826** | 3.416 | 280 | 428 | 104 | 96 | 9.5 | 8.3 |
| 180 | 125 | 150 | 10 | **753 200 845** | 4.460 | 285 | 460 | 105 | 90 | 10.7 | 7.4 |
| 180 | 140 | 150 | 10 | **753 200 846** | 4.483 | 305 | 460 | 105 | 110 | 10.7 | 8.3 |
| 200 | 140 | 200 | 10 | **753 200 848** | 7.200 | 315 | 500 | 115 | 110 | 11.9 | 8.3 |
| 200 | 180 | 200 | 10 | **753 200 849** | 6.900 | 315 | 500 | 115 | 110 | 11.9 | 10.7 |
| 225 | 140 | 200 | 10 | **753 200 855** | 8.780 | 345 | 540 | 122 | 110 | 13.4 | 8.3 |
| 225 | 200 | 200 | 10 | **753 200 856** | 9.064 | 335 | 540 | 122 | 115 | 13.4 | 11.9 |
| 250 | 180 | 250 | 10 | **753 200 857** | 15.000 | 340 | 576 | 130 | 105 | 14.8 | 10.7 |
| 250 | 200 | 250 | 10 | **753 200 858** | 15.440 | 350 | 576 | 130 | 112 | 14.8 | 11.9 |

table continued on the next page




| d1 (mm) | d2 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | L2 (mm) | Lmax (mm) | Q1 (mm) | Q2 (mm) | s1 (mm) | s2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 250 | 225 | 250 | 10 | **753 200 859** | 15.620 | 370 | 576 | 130 | 120 | 14.8 | 13.4 |
| 280 | 200 | 250 | 10 | **753 200 860** | 15.700 | 400 | 616 | 139 | 112 | 16.6 | 11.9 |
| 280 | 225 | 250 | 10 | **753 200 861** | 19.500 | 400 | 616 | 139 | 120 | 16.6 | 13.4 |
| 280 | 250 | 250 | 10 | **753 200 862** | 20.120 | 400 | 616 | 139 | 130 | 16.6 | 14.8 |
| 315 | 280 | 300 | 10 | **753 200 864** | 26.940 | 480 | 690 | 150 | 139 | 18.7 | 16.6 |
| 355 | 250 | 350 | 10 | **753 200 865** | 35.770 | 480 | 818 | 165 | 130 | 21.1 | 14.8 |
| 355 | 280 | 350 | 10 | **753 200 866** | 36.330 | 480 | 818 | 165 | 139 | 21.1 | 16.6 |
| 355 | 315 | 350 | 10 | **753 200 867** | 37.740 | 490 | 818 | 165 | 150 | 21.1 | 18.7 |
| 400 | 280 | 400 | 10 | **753 200 868** | 48.330 | 540 | 910 | 180 | 139 | 23.7 | 16.6 |
| 400 | 315 | 400 | 10 | **753 200 869** | 48.880 | 580 | 910 | 180 | 150 | 23.7 | 18.7 |
| 400 | 355 | 400 | 10 | **753 200 870** | 50.020 | 675 | 910 | 180 | 165 | 23.7 | 21.1 |

# Reducers

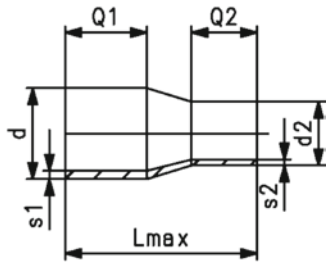


## ELGEF Plus Reducer PE100
## d25-630mm / SDR11 / Long version

**Model:**

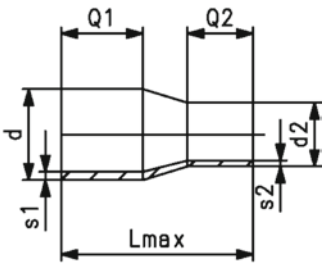
- 10 bar Gas / 16 bar Water

* FM 1613 approved - 15 bar



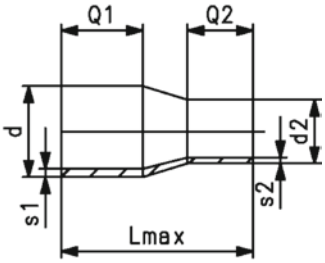

| | d (mm) | d2 (mm) | DN (mm) | PN (bar) | SDR | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | Q2 (mm) | s1 (mm) | s2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 25 | 20 | 20 | 16 | 11 | **753 901 038** | 0.022 | 115 | 53 | 52 | 3.0 | 3.0 |
| | 32 | 20 | 25 | 16 | 11 | **753 901 042** | 0.027 | 122 | 55 | 53 | 3.0 | 3.0 |
| | 32 | 25 | 25 | 16 | 11 | **753 901 041** | 0.033 | 122 | 55 | 53 | 3.0 | 3.0 |
| | 40 | 20 | 32 | 16 | 11 | **753 901 048** | 0.043 | 127 | 56 | 50 | 3.7 | 3.0 |
| | 40 | 25 | 32 | 16 | 11 | **753 901 047** | 0.045 | 128 | 55 | 50 | 3.7 | 3.0 |
| | 40 | 32 | 32 | 16 | 11 | **753 901 046** | 0.047 | 128 | 55 | 52 | 3.7 | 3.0 |
| | 50 | 20 | 40 | 16 | 11 | **753 901 055** | 0.064 | 147 | 62 | 50 | 4.6 | 3.0 |
| | 50 | 25 | 40 | 16 | 11 | **753 901 054** | 0.069 | 139 | 62 | 50 | 4.6 | 3.0 |
| | 50 | 32 | 40 | 16 | 11 | **753 901 053** | 0.067 | 140 | 62 | 54 | 4.6 | 3.0 |
| | 50 | 40 | 40 | 16 | 11 | **753 901 052** | 0.079 | 138 | 62 | 55 | 4.6 | 3.7 |
| | 63 | 32 | 50 | 16 | 11 | **753 901 060** | 0.113 | 150 | 65 | 53 | 5.8 | 3.0 |
| | 63 | 40 | 50 | 16 | 11 | **753 901 059** | 0.122 | 150 | 65 | 57 | 5.8 | 3.7 |
| | 63 | 50 | 50 | 16 | 11 | **753 901 058** | 0.128 | 150 | 65 | 62 | 5.8 | 4.6 |
| | 75 | 40 | 65 | 16 | 11 | **753 901 063** | 0.185 | 170 | 72 | 51 | 6.8 | 3.7 |
| | 75 | 50 | 65 | 16 | 11 | **753 901 064** | 0.188 | 170 | 72 | 65 | 6.8 | 4.6 |
| | 75 | 63 | 65 | 16 | 11 | **753 901 065** | 0.209 | 170 | 72 | 65 | 6.8 | 5.8 |
| | 90 | 50 | 80 | 16 | 11 | **753 901 072** | 0.289 | 190 | 81 | 61 | 8.2 | 4.6 |
| | 90 | 63 | 80 | 16 | 11 | **753 901 071** | 0.316 | 190 | 81 | 65 | 8.2 | 5.8 |
| | 90 | 75 | 80 | 16 | 11 | **753 901 070** | 0.330 | 190 | 81 | 72 | 8.2 | 6.8 |
| | 110 | 63 | 100 | 16 | 11 | **753 901 078** | 0.487 | 205 | 85 | 65 | 10.0 | 5.8 |
| | 110 | 75 | 100 | 16 | 11 | **753 901 077** | 0.501 | 205 | 84 | 72 | 10.0 | 6.8 |
| * | 110 | 90 | 100 | 16 | 11 | **753 901 076** | 0.549 | 205 | 85 | 81 | 10.0 | 8.2 |
| | 125 | 63 | 100 | 16 | 11 | **753 901 083** | 0.607 | 214 | 88 | 65 | 11.4 | 5.8 |
| | 125 | 75 | 100 | 16 | 11 | **753 901 082** | 0.667 | 210 | 89 | 72 | 11.4 | 6.8 |
| * | 125 | 90 | 100 | 16 | 11 | **753 901 081** | 0.683 | 211 | 89 | 81 | 11.4 | 8.2 |
| * | 125 | 110 | 100 | 16 | 11 | **753 901 080** | 0.775 | 211 | 90 | 84 | 11.4 | 10.0 |
| | 140 | 75 | 125 | 16 | 11 | **753 901 086** | 0.910 | 237 | 113 | 77 | 12.7 | 6.8 |
| * | 140 | 90 | 125 | 16 | 11 | **753 901 087** | 0.954 | 237 | 114 | 86 | 12.7 | 8.2 |
| * | 140 | 110 | 125 | 16 | 11 | **753 901 084** | 0.977 | 232 | 104 | 93 | 12.7 | 10.0 |
| * | 140 | 125 | 125 | 16 | 11 | **753 901 085** | 1.078 | 232 | 102 | 100 | 12.7 | 11.4 |
| * | 160 | 90 | 150 | 16 | 11 | **753 901 088** | 1.164 | 244 | 100 | 81 | 14.6 | 8.2 |
| * | 160 | 110 | 150 | 16 | 11 | **753 901 090** | 1.239 | 242 | 100 | 85 | 14.6 | 10.0 |
| * | 160 | 125 | 150 | 16 | 11 | **753 901 089** | 1.333 | 240 | 100 | 89 | 14.6 | 11.4 |
| * | 160 | 140 | 150 | 16 | 11 | **753 901 032** | 1.522 | 255 | 110 | 104 | 14.6 | 12.7 |
| * | 180 | 90 | 150 | 16 | 11 | **753 901 073** | 1.507 | 245 | 105 | 81 | 16.4 | 8.2 |
| * | 180 | 110 | 150 | 16 | 11 | **753 901 074** | 1.833 | 277 | 124 | 94 | 16.4 | 10.0 |
| * | 180 | 125 | 150 | 16 | 11 | **753 901 091** | 1.723 | 258 | 108 | 92 | 16.4 | 11.4 |
| * | 180 | 140 | 150 | 16 | 11 | **753 901 075** | 1.976 | 278 | 124 | 113 | 16.4 | 12.7 |

table continued on the next page




| | d (mm) | d2 (mm) | DN (mm) | PN (bar) | SDR | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | Q2 (mm) | s1 (mm) | s2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * | 180 | 160 | 150 | 16 | 11 | **753 901 033** | 1.968 | 255 | 107 | 102 | 16.4 | 14.6 |
| * | 200 | 140 | 200 | 16 | 11 | **753 901 066** | 2.326 | 282 | 123 | 114 | 18.2 | 12.7 |
| * | 200 | 160 | 200 | 16 | 11 | **753 901 092** | 2.435 | 252 | 104 | 120 | 18.2 | 14.6 |
| * | 200 | 180 | 200 | 16 | 11 | **753 901 034** | 2.724 | 279 | 124 | 120 | 18.2 | 16.4 |
| * | 225 | 140 | 200 | 16 | 11 | **753 901 067** | 2.900 | 295 | 132 | 115 | 20.5 | 12.7 |
| * | 225 | 160 | 200 | 16 | 11 | **753 901 096** | 3.100 | 278 | 120 | 98 | 20.5 | 14.6 |
| * | 225 | 180 | 200 | 16 | 11 | **753 901 095** | 3.090 | 297 | 128 | 120 | 20.5 | 16.4 |
| * | 225 | 200 | 200 | 16 | 11 | **753 901 094** | 3.380 | 280 | 124 | 117 | 20.5 | 18.2 |
| * | 250 | 160 | 250 | 16 | 11 | **753 901 000** | 3.990 | 309 | 150 | 97 | 22.7 | 14.6 |
| * | 250 | 180 | 250 | 16 | 11 | **753 901 068** | 4.299 | 312 | 150 | 106 | 22.7 | 16.4 |
| * | 250 | 200 | 250 | 16 | 11 | **753 901 001** | 4.766 | 327 | 155 | 115 | 22.7 | 18.2 |
| * | 250 | 225 | 250 | 16 | 11 | **753 901 002** | 4.950 | 332 | 130 | 120 | 22.7 | 20.5 |
| * | 280 | 200 | 250 | 16 | 11 | **753 901 098** | 5.830 | 347 | 140 | 115 | 25.4 | 18.2 |
| * | 280 | 225 | 250 | 16 | 11 | **753 901 099** | 6.112 | 340 | 140 | 122 | 25.4 | 20.5 |
| * | 280 | 250 | 250 | 16 | 11 | **753 901 003** | 6.480 | 320 | 137 | 133 | 25.4 | 22.7 |
| * | 315 | 200 | 250 | 16 | 11 | **753 901 011** | 7.220 | 355 | 150 | 112 | 18.7 | 11.9 |
| * | 315 | 225 | 300 | 16 | 11 | **753 901 097** | 7.790 | 375 | 150 | 123 | 28.6 | 20.5 |
| * | 315 | 250 | 300 | 16 | 11 | **753 901 005** | 8.360 | 375 | 150 | 132 | 28.6 | 22.7 |
| * | 315 | 280 | 300 | 16 | 11 | **753 901 012** | 8.800 | 375 | 150 | 144 | 28.6 | 25.4 |
| | 355 | 250 | 350 | 16 | 11 | **753 901 013** | 10.140 | 390 | 165 | 130 | 32.3 | 22.7 |
| | 355 | 280 | 350 | 16 | 11 | **753 901 014** | 10.740 | 390 | 165 | 139 | 32.3 | 25.4 |
| | 355 | 315 | 350 | 16 | 11 | **753 901 015** | 11.590 | 390 | 165 | 150 | 32.3 | 28.6 |
| | 400 | 280 | 400 | 16 | 11 | **753 901 016** | 13.660 | 415 | 180 | 139 | 36.4 | 25.4 |
| | 400 | 315 | 400 | 16 | 11 | **753 901 017** | 14.490 | 415 | 180 | 150 | 36.4 | 28.6 |
| * | 400 | 355 | 400 | 16 | 11 | **753 901 018** | 15.830 | 420 | 180 | 165 | 36.4 | 32.3 |
| | 450 | 280 | 450 | 16 | 11 | **753 901 019** | 15.420 | 389 | 195 | 139 | 40.9 | 25.4 |
| | 450 | 315 | 450 | 16 | 11 | **753 901 020** | 16.150 | 390 | 195 | 150 | 40.9 | 28.6 |
| | 450 | 355 | 450 | 16 | 11 | **753 901 022** | 17.240 | 393 | 195 | 164 | 40.9 | 32.3 |
| | 450 | 400 | 450 | 16 | 11 | **753 901 024** | 18.790 | 395 | 195 | 179 | 40.9 | 36.4 |
| | 500 | 315 | 500 | 16 | 11 | **753 901 025** | 20.780 | 422 | 212 | 150 | 45.5 | 28.6 |
| | 500 | 355 | 500 | 16 | 11 | **753 901 026** | 21.770 | 424 | 212 | 164 | 45.5 | 32.3 |
| | 500 | 400 | 500 | 16 | 11 | **753 901 027** | 23.270 | 426 | 212 | 179 | 45.5 | 36.4 |
| | 500 | 450 | 500 | 16 | 11 | **753 901 029** | 25.380 | 428 | 212 | 195 | 45.5 | 40.9 |
| | 560 | 355 | 600 | 16 | 11 | **753 901 030** | 28.420 | 459 | 230 | 164 | 50.9 | 32.3 |
| | 560 | 400 | 600 | 16 | 11 | **753 901 039** | 29.850 | 461 | 230 | 179 | 50.9 | 36.4 |
| | 560 | 450 | 600 | 16 | 11 | **753 901 040** | 31.870 | 463 | 230 | 195 | 50.9 | 40.9 |
| | 560 | 500 | 600 | 16 | 11 | **753 901 043** | 34.430 | 466 | 230 | 212 | 50.9 | 45.5 |
| | 630 | 400 | 600 | 16 | 11 | **753 901 044** | 39.400 | 502 | 250 | 179 | 57.3 | 36.4 |
| | 630 | 450 | 600 | 16 | 11 | **753 901 045** | 41.240 | 503 | 250 | 195 | 57.3 | 40.9 |
| | 630 | 500 | 600 | 16 | 11 | **753 901 049** | 43.700 | 506 | 250 | 212 | 57.3 | 45.5 |
| | 630 | 560 | 600 | 16 | 11 | **753 901 050** | 47.070 | 506 | 250 | 230 | 57.3 | 50.9 |





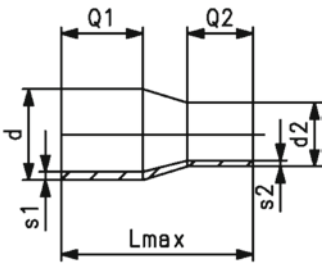

## ELGEF Plus Reducer PE100
## d90-d1000mm / SDR17 / Long version

**Model:**

- 5 bar Gas / 10 bar Water

| d (mm) | d2 (mm) | DN (mm) | PN (bar) | SDR | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | Q2 (mm) | s1 (mm) | s2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 90 | 63 | 80 | 10 | 17 | **753 900 872** | 0.224 | 182 | 79 | 63 | 5.4 | 3,8 |
| 90 | 75 | 80 | 10 | 17 | **753 900 870** | 0.234 | 185 | 79 | 70 | 5.4 | 4,5 |
| 110 | 63 | 100 | 10 | 17 | **753 900 877** | 0.326 | 185 | 82 | 68 | 6.6 | 3,8 |
| 110 | 90 | 100 | 10 | 17 | **753 900 876** | 0.333 | 205 | 82 | 80 | 6.6 | 5,4 |
| 125 | 63 | 100 | 10 | 17 | **753 900 882** | 0.610 | 200 | 91 | 68 | 7.4 | 3,8 |
| 125 | 90 | 100 | 10 | 17 | **753 900 881** | 0.461 | 200 | 90 | 80 | 7.4 | 5,4 |
| 125 | 110 | 100 | 10 | 17 | **753 900 880** | 0.507 | 200 | 90 | 90 | 7.4 | 6,6 |
| 140 | 75 | 125 | 10 | 17 | **753 900 886** | 0.560 | 230 | 112 | 76 | 8.3 | 4,5 |
| 140 | 90 | 125 | 10 | 17 | **753 900 887** | 0.642 | 235 | 112 | 86 | 8.3 | 5,4 |
| 140 | 110 | 125 | 10 | 17 | **753 900 884** | 0.715 | 237 | 112 | 91 | 8.3 | 6,6 |
| 140 | 125 | 125 | 10 | 17 | **753 900 885** | 0.754 | 237 | 118 | 93 | 8.3 | 7,4 |
| 160 | 90 | 150 | 10 | 17 | **753 900 888** | 0.752 | 238 | 108 | 85 | 9.5 | 5,4 |
| 160 | 110 | 150 | 10 | 17 | **753 900 890** | 0.930 | 252 | 111 | 89 | 9.5 | 6,4 |
| 160 | 125 | 150 | 10 | 17 | **753 900 889** | 0.930 | 251 | 110 | 96 | 9.5 | 7,4 |
| 160 | 140 | 150 | 10 | 17 | **753 900 831** | 0.995 | 260 | 120 | 110 | 9.5 | 8,3 |
| 180 | 90 | 150 | 10 | 17 | **753 900 873** | 1.010 | 245 | 105 | 81 | 10.7 | 5,4 |
| 180 | 110 | 150 | 10 | 17 | **753 900 874** | 1.600 | 275 | 124 | 94 | 10.7 | 6,6 |
| 180 | 125 | 150 | 10 | 17 | **753 900 891** | 1.165 | 250 | 105 | 87 | 10.7 | 7,4 |
| 180 | 140 | 150 | 10 | 17 | **753 900 875** | 1.720 | 277 | 123 | 114 | 10.7 | 8,3 |
| 180 | 160 | 150 | 10 | 17 | **753 900 832** | 2.100 | 279 | 122 | 125 | 10.7 | 9,5 |
| 200 | 140 | 200 | 10 | 17 | **753 900 866** | 1.800 | 279 | 122 | 114 | 11.9 | 8,3 |
| 200 | 160 | 200 | 10 | 17 | **753 900 892** | 1.664 | 278 | 122 | 124 | 11.9 | 9,5 |
| 200 | 180 | 200 | 10 | 17 | **753 900 893** | 2.580 | 272 | 120 | 120 | 11.9 | 10,7 |
| 225 | 140 | 200 | 10 | 17 | **753 900 867** | 2.021 | 290 | 134 | 114 | 13.4 | 8,3 |
| 225 | 160 | 200 | 10 | 17 | **753 900 896** | 2.020 | 280 | 120 | 100 | 13.4 | 9,5 |
| 225 | 180 | 200 | 10 | 17 | **753 900 895** | 2.240 | 285 | 125 | 118 | 13.4 | 10,7 |
| 225 | 200 | 200 | 10 | 17 | **753 900 894** | 2.237 | 272 | 126 | 120 | 13.4 | 11,9 |
| 250 | 160 | 250 | 10 | 17 | **753 900 800** | 2.850 | 308 | 152 | 100 | 14.8 | 9,5 |
| 250 | 180 | 250 | 10 | 17 | **753 900 868** | 3.100 | 316 | 153 | 105 | 14.8 | 10,7 |
| 250 | 200 | 250 | 10 | 17 | **753 900 801** | 3.210 | 324 | 157 | 112 | 14.8 | 11,9 |
| 250 | 225 | 250 | 10 | 17 | **753 900 802** | 2.385 | 330 | 168 | 120 | 14.8 | 13,4 |
| 280 | 200 | 250 | 10 | 17 | **753 900 898** | 3.800 | 345 | 142 | 116 | 16.6 | 11,9 |
| 280 | 225 | 250 | 10 | 17 | **753 900 899** | 4.062 | 335 | 140 | 124 | 16.6 | 13,4 |
| 280 | 250 | 250 | 10 | 17 | **753 900 803** | 4.352 | 340 | 140 | 134 | 16.6 | 14,8 |
| 315 | 200 | 300 | 10 | 17 | **753 800 897** | 4.960 | 355 | 150 | 112 | 28.6 | 18,2 |
| 315 | 225 | 300 | 10 | 17 | **753 900 807** | 6.200 | 370 | 153 | 124 | 18.7 | 13,4 |
| 315 | 250 | 300 | 10 | 17 | **753 900 805** | 6.420 | 367 | 152 | 134 | 18.7 | 14,8 |
| 315 | 280 | 300 | 10 | 17 | **753 900 806** | 5.940 | 369 | 150 | 140 | 18.7 | 16,6 |
| 355 | 250 | 350 | 10 | 17 | **753 900 808** | 6.970 | 390 | 165 | 130 | 21.1 | 14,8 |
| 355 | 280 | 350 | 10 | 17 | **753 900 809** | 7.380 | 390 | 165 | 140 | 21.1 | 16,6 |
| 355 | 315 | 350 | 10 | 17 | **753 900 810** | 7.960 | 390 | 165 | 150 | 21.1 | 18,7 |
| 400 | 280 | 400 | 10 | 17 | **753 900 811** | 9.370 | 415 | 180 | 140 | 23.7 | 16,6 |
| 400 | 315 | 400 | 10 | 17 | **753 900 812** | 9.940 | 415 | 180 | 150 | 23.7 | 18,7 |
| 400 | 355 | 400 | 10 | 17 | **753 900 813** | 10.850 | 420 | 180 | 165 | 23.7 | 21,1 |
| 450 | 280 | 450 | 10 | 17 | **753 900 814** | 10.570 | 389 | 195 | 140 | 26.7 | 16,6 |
| 450 | 315 | 450 | 10 | 17 | **753 900 815** | 11.080 | 390 | 195 | 150 | 26.7 | 18,7 |
| 450 | 355 | 450 | 10 | 17 | **753 900 816** | 11.830 | 393 | 195 | 164 | 26.7 | 21,1 |
| 450 | 400 | 450 | 10 | 17 | **753 900 817** | 12.860 | 395 | 195 | 179 | 26.7 | 23,7 |
| 500 | 315 | 500 | 10 | 17 | **753 900 818** | 14.300 | 422 | 212 | 150 | 29.7 | 18,7 |
| 500 | 355 | 500 | 10 | 17 | **753 900 819** | 15.000 | 424 | 212 | 164 | 29.7 | 21,1 |
| 500 | 400 | 500 | 10 | 17 | **753 900 820** | 16.000 | 426 | 212 | 179 | 29.7 | 23,7 |
| 500 | 450 | 500 | 10 | 17 | **753 900 821** | 17.430 | 428 | 212 | 195 | 29.7 | 26,7 |
| 560 | 355 | 600 | 10 | 17 | **753 900 822** | 19.480 | 459 | 230 | 164 | 33.2 | 21,1 |
| 560 | 400 | 600 | 10 | 17 | **753 900 823** | 20.430 | 461 | 230 | 179 | 33.2 | 23,7 |
| 560 | 450 | 600 | 10 | 17 | **753 900 824** | 21.810 | 463 | 230 | 195 | 33.2 | 26,7 |
| 560 | 500 | 600 | 10 | 17 | **753 900 825** | 23.590 | 466 | 230 | 212 | 33.2 | 29,7 |
| 630 | 400 | 600 | 10 | 17 | **753 900 826** | 26.950 | 502 | 250 | 179 | 37.4 | 23,7 |

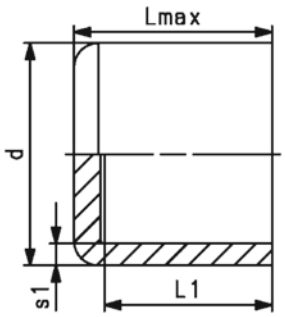
table continued on the next page




| d (mm) | d2 (mm) | DN (mm) | PN (bar) | SDR | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | Q2 (mm) | s1 (mm) | s2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 630 | 450 | 600 | 10 | 17 | **753 900 827** | 28.210 | 503 | 250 | 195 | 37.4 | 26,7 |
| 630 | 500 | 600 | 10 | 17 | **753 900 828** | 29.920 | 506 | 250 | 212 | 37.4 | 29,7 |
| 630 | 560 | 600 | 10 | 17 | **753 900 829** | 32.260 | 506 | 250 | 230 | 37.4 | 33,3 |
| 710 | 500 | 700 | 10 | 17 | **753 900 933** | 55.100 | 655 | 300 | 300 | 42.1 | 29,7 |
| 710 | 560 | 700 | 10 | 17 | **753 900 934** | 54.900 | 655 | 300 | 300 | 42.1 | 33.2 |
| 710 | 630 | 700 | 10 | 17 | **753 900 935** | 54.800 | 655 | 300 | 300 | 42.1 | 37,4 |
| 800 | 560 | 800 | 10 | 17 | **753 900 936** | 70.100 | 655 | 300 | 300 | 47.4 | 33,2 |
| 800 | 630 | 800 | 10 | 17 | **753 900 937** | 69.700 | 655 | 300 | 300 | 47.4 | 37,4 |
| 800 | 710 | 800 | 10 | 17 | **753 900 938** | 69.500 | 655 | 300 | 300 | 47.4 | 42,1 |
| 900 | 630 | 900 | 10 | 17 | **753 900 939** | 89.000 | 655 | 300 | 300 | 53.3 | 37,4 |
| 900 | 710 | 900 | 10 | 17 | **753 900 940** | 88.300 | 655 | 300 | 300 | 53.3 | 42,1 |
| 900 | 800 | 900 | 10 | 17 | **753 900 941** | 88.000 | 655 | 300 | 300 | 53.3 | 47,4 |
| 1000 | 710 | 1000 | 10 | 17 | **753 900 942** | 110.000 | 655 | 300 | 300 | 59.3 | 42,1 |
| 1000 | 800 | 1000 | 10 | 17 | **753 900 943** | 109.200 | 655 | 300 | 300 | 59.3 | 47,4 |
| 1000 | 900 | 1000 | 10 | 17 | **753 900 944** | 108.700 | 655 | 300 | 300 | 59.3 | 53,3 |

# Caps





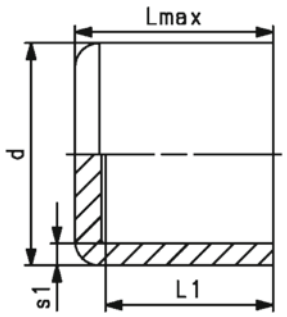

## ELGEF Plus End cap PE100
## d20-d630mm / SDR11 / Long version

- 10 bar Gas / 16 bar Water

* FM 1613 approved - 15 bar
** FM 1613 approved - 12 bar
*** Fabricated fitting made from pipe

| | d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | L1 (mm) | Lmax (mm) | s1 (mm) |
|---|---|---|---|---|---|---|---|---|
| | 20 | 15 | 16 | **753 961 006** | 0.010 | 52 | 52 | 3.0 |
| | 25 | 20 | 16 | **753 961 007** | 0.015 | 52 | 52 | 3.0 |
| | 32 | 25 | 16 | **753 961 008** | 0.020 | 54 | 54 | 3.0 |
| | 40 | 32 | 16 | **753 961 009** | 0.033 | 57 | 57 | 3.7 |
| | 50 | 40 | 16 | **753 961 010** | 0.054 | 63 | 63 | 4.6 |
| | 63 | 50 | 16 | **753 961 011** | 0.086 | 65 | 65 | 5.8 |
| | 75 | 65 | 16 | **753 961 012** | 0.146 | 72 | 80 | 6.8 |
| * | 90 | 80 | 16 | **753 961 013** | 0.240 | 81 | 90 | 8.2 |
| * | 110 | 100 | 16 | **753 961 014** | 0.373 | 86 | 98 | 10.0 |
| * | 125 | 100 | 16 | **753 961 015** | 0.546 | 92 | 105 | 11.4 |
| * | 140 | 125 | 16 | **753 961 016** | 0.727 | 92 | 136 | 12.7 |
| * | 160 | 150 | 16 | **753 961 017** | 1.034 | 102 | 120 | 14.6 |
| * | 180 | 150 | 16 | **753 961 018** | 1.351 | 107 | 128 | 16.4 |
| * | 200 | 200 | 16 | **753 961 019** | 1.845 | 115 | 138 | 18.2 |
| * | 225 | 200 | 16 | **753 961 020** | 2.514 | 122 | 148 | 20.5 |
| * | 250 | 250 | 16 | **753 961 021** | 3.927 | 130 | 205 | 22.7 |
| * | 280 | 250 | 16 | **753 960 922** | 5.045 | 139 | 235 | 25.4 |
| * | 315 | 300 | 16 | **753 960 923** | 6.861 | 150 | 255 | 28.6 |
| **, *** | 355 | 350 | 16 | **753 960 924** | 9.780 | 165 | 280 | 32.3 |
| **, *** | 400 | 400 | 16 | **753 960 925** | 13.370 | 180 | 310 | 36.4 |
| **, *** | 450 | 450 | 16 | **753 960 926** | 22.120 | 220 | 300 | 40.9 |
| **, *** | 500 | 500 | 16 | **753 960 927** | 30.226 | 240 | 325 | 45.4 |
| *** | 560 | 600 | 16 | **753 960 928** | 42.368 | 270 | 360 | 50.8 |
| *** | 630 | 600 | 16 | **753 960 929** | 64.850 | 300 | 400 | 54.2 |






### ELGEF Plus End cap PE100
### d50-1000mm / SDR17 / Long version

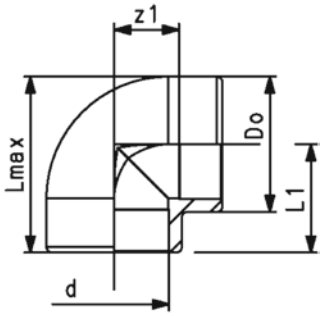
- 5 bar Gas / 10 bar Water

* Fabricated fitting made from pipe

| | d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | L1 (mm) | Lmax (mm) | s1 (mm) |
|---|---|---|---|---|---|---|---|---|
| | 50 | 40 | 10 | **753 960 810** | 0.036 | 55 | 70 | 3.0 |
| | 63 | 50 | 10 | **753 960 811** | 0.058 | 63 | 82 | 3.8 |
| | 75 | 65 | 10 | **753 960 812** | 0.105 | 70 | 92 | 4.5 |
| | 90 | 80 | 10 | **753 960 813** | 0.214 | 81 | 90 | 5.4 |
| | 110 | 100 | 10 | **753 960 814** | 0.272 | 86 | 98 | 6.6 |
| | 125 | 100 | 10 | **753 960 815** | 0.487 | 92 | 105 | 7.4 |
| | 140 | 125 | 10 | **753 960 816** | 0.481 | 92 | 136 | 8.3 |
| | 160 | 150 | 10 | **753 960 817** | 0.920 | 102 | 120 | 9.5 |
| | 180 | 150 | 10 | **753 960 818** | 1.216 | 107 | 128 | 10.7 |
| | 200 | 200 | 10 | **753 960 819** | 1.687 | 115 | 138 | 11.9 |
| | 225 | 200 | 10 | **753 960 820** | 2.265 | 122 | 148 | 13.4 |
| | 250 | 250 | 10 | **753 960 821** | 2.547 | 130 | 205 | 14.8 |
| | 280 | 250 | 10 | **753 960 822** | 3.523 | 139 | 235 | 16.6 |
| | 315 | 300 | 10 | **753 960 823** | 4.758 | 150 | 255 | 18.7 |
| | 355 | 350 | 10 | **753 960 824** | 6.510 | 165 | 280 | 21.1 |
| | 400 | 400 | 10 | **753 960 825** | 9.347 | 180 | 310 | 23.7 |
| * | 450 | 450 | 10 | **753 960 826** | 16.795 | 220 | 290 | 26.7 |
| * | 500 | 500 | 10 | **753 960 827** | 22.638 | 240 | 315 | 29.7 |
| * | 560 | 600 | 10 | **753 960 828** | 31.062 | 260 | 340 | 33.2 |
| * | 630 | 600 | 10 | **753 960 829** | 43.506 | 280 | 370 | 37.4 |
| * | 710 | 700 | 10 | **753 960 830** | 53.950 | 190 | 310 | 42.1 |
| * | 800 | 800 | 10 | **753 960 831** | 73.281 | 190 | 320 | 47.4 |
| * | 900 | 900 | 10 | **753 960 832** | 98.923 | 190 | 330 | 53.5 |
| * | 1000 | 1000 | 10 | **753 960 833** | 123.925 | 190 | 340 | 59.3 |

## ecoFIT socket fusion fittings

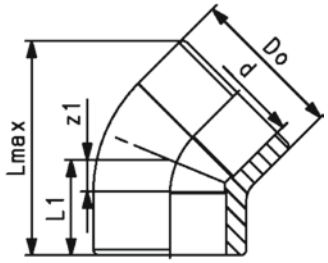





### ecoFIT Elbow 90° PE80
### d20-110mm

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | L1 (mm) | Lmax (mm) | z1 (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | 15 | 10 | **733 100 106** | 0.022 | 31 | 28 | 43.3 | 14 |
| 25 | 20 | 10 | **733 100 107** | 0.031 | 36 | 32 | 50.0 | 16 |
| 32 | 25 | 10 | **733 100 108** | 0.048 | 44 | 38 | 59.8 | 20 |
| 40 | 32 | 10 | **733 100 109** | 0.078 | 54 | 44 | 70.8 | 24 |
| 50 | 40 | 10 | **733 100 110** | 0.129 | 66 | 51 | 84.0 | 28 |
| 63 | 50 | 10 | **733 100 111** | 0.228 | 82 | 62 | 103.0 | 35 |
| 75 | 65 | 10 | **733 100 112** | 0.311 | 93 | 76 | 121.8 | 45 |
| 90 | 80 | 10 | **733 100 113** | 0.498 | 110 | 88 | 143.0 | 53 |
| 110 | 100 | 10 | **733 100 114** | 0.864 | 134 | 106 | 173.0 | 65 |

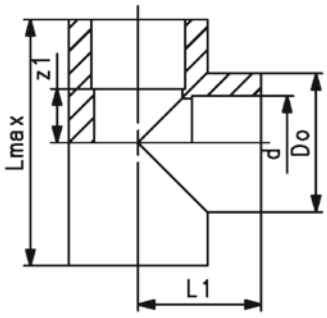





## ecoFIT Elbow 45° PE80
## d20-110mm

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | L1 (mm) | Lmax (mm) | z1 (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | 15 | 10 | **733 150 106** | 0.018 | 31 | 21 | 46.6 | 7 |
| 25 | 20 | 10 | **733 150 107** | 0.026 | 36 | 24 | 53.7 | 8 |
| 32 | 25 | 10 | **733 150 108** | 0.043 | 44 | 28 | 63.2 | 10 |
| 40 | 32 | 10 | **733 150 109** | 0.061 | 53 | 33 | 75.1 | 13 |
| 50 | 40 | 10 | **733 150 110** | 0.087 | 64 | 36 | 84.1 | 13 |
| 63 | 50 | 10 | **733 150 111** | 0.184 | 82 | 43 | 102.0 | 16 |
| 75 | 65 | 10 | **733 150 112** | 0.229 | 93 | 51 | 119.7 | 20 |
| 90 | 80 | 10 | **733 150 113** | 0.357 | 114 | 58 | 137.8 | 23 |
| 110 | 100 | 10 | **733 150 114** | 0.653 | 134 | 68 | 163.8 | 27 |

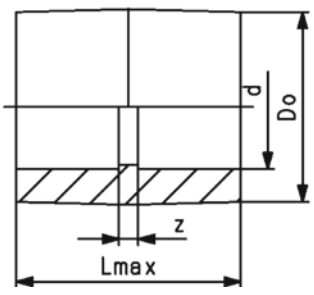





## ecoFIT tee 90° equal PE80
## d20-110mm

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | L1 (mm) | Lmax (mm) | z1 (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | 15 | 10 | **733 200 106** | 0.028 | 31 | 28 | 56.0 | 14 |
| 25 | 20 | 10 | **733 200 107** | 0.041 | 36 | 32 | 64.0 | 16 |
| 32 | 25 | 10 | **733 200 108** | 0.060 | 44 | 38 | 76.0 | 20 |
| 40 | 32 | 10 | **733 200 109** | 0.100 | 54 | 44 | 88.0 | 24 |
| 50 | 40 | 10 | **733 200 110** | 0.166 | 66 | 51 | 102.0 | 28 |
| 63 | 50 | 10 | **733 200 111** | 0.298 | 82 | 62 | 124.0 | 35 |
| 75 | 65 | 10 | **733 200 112** | 0.409 | 93 | 76 | 150.5 | 45 |
| 90 | 80 | 10 | **733 200 113** | 0.749 | 114 | 88 | 176.0 | 53 |
| 110 | 100 | 10 | **733 200 114** | 1.112 | 134 | 106 | 211.0 | 65 |

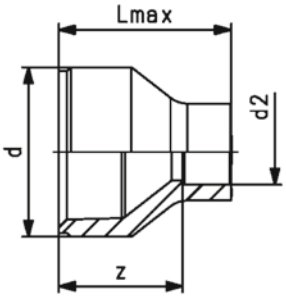


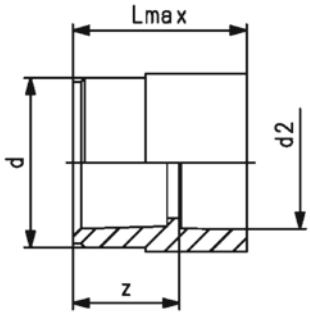



## ecoFIT Socket equal PE80
## d20-110mm

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | Lmax (mm) | z (mm) |
|---|---|---|---|---|---|---|---|
| 20 | 25 | 10 | **733 910 106** | 0.014 | 31 | 35 | 7 |
| 25 | 32 | 10 | **733 910 107** | 0.020 | 36 | 39 | 7 |
| 32 | 40 | 10 | **733 910 108** | 0.029 | 44 | 43 | 7 |
| 40 | 50 | 10 | **733 910 109** | 0.047 | 54 | 48 | 8 |
| 50 | 40 | 10 | **733 910 110** | 0.068 | 66 | 54 | 8 |
| 63 | 50 | 10 | **733 910 111** | 0.124 | 82 | 62 | 8 |
| 75 | 65 | 10 | **733 910 112** | 0.152 | 93 | 70 | 8 |
| 90 | 80 | 10 | **733 910 113** | 0.234 | 112 | 81 | 11 |
| 110 | 100 | 10 | **733 910 114** | 0.419 | 134 | 96 | 14 |





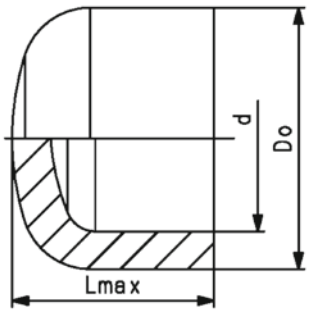




## ecoFIT Reducer PE80
## d25-110mm

- With socket fusion spigot and fusion socket metric

| | d (mm) | d2 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| | 25 | 20 | 20 | 10 | **733 910 337** | 0.013 | 39 | 23 |
| | 32 | 25 | 25 | 10 | **733 910 341** | 0.021 | 43 | 27 |
| * | 40 | 20 | 32 | 10 | **733 910 348** | 0.023 | 48 | 34 |
| * | 40 | 25 | 32 | 10 | **733 910 347** | 0.027 | 48 | 32 |
| | 40 | 32 | 32 | 10 | **733 910 346** | 0.032 | 48 | 30 |
| * | 50 | 32 | 40 | 10 | **733 910 353** | 0.042 | 54 | 36 |
| | 50 | 40 | 40 | 10 | **733 910 352** | 0.049 | 54 | 34 |
| * | 63 | 20 | 50 | 10 | **733 910 362** | 0.057 | 64 | 50 |
| * | 63 | 25 | 50 | 10 | **733 910 361** | 0.060 | 64 | 48 |
| * | 63 | 32 | 50 | 10 | **733 910 360** | 0.065 | 64 | 46 |
| * | 63 | 40 | 50 | 10 | **733 910 359** | 0.070 | 64 | 44 |
| | 63 | 50 | 50 | 10 | **733 910 358** | 0.086 | 64 | 41 |
| | 75 | 63 | 65 | 10 | **733 910 364** | 0.103 | 62 | 35 |
| * | 90 | 63 | 80 | 10 | **733 910 371** | 0.180 | 88 | 62 |
| | 90 | 75 | 80 | 10 | **733 910 370** | 0.144 | 70 | 39 |
| | 110 | 90 | 100 | 10 | **733 910 376** | 0.254 | 81 | 45 |



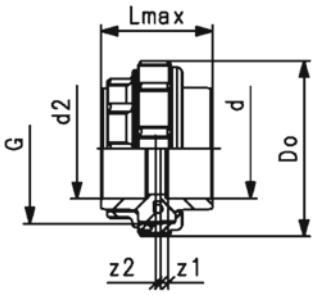



## ecoFIT End cap PE80
## d20-110mm

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | Lmax (mm) |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | **733 960 106** | 0.010 | 30 | 27 |
| 25 | 20 | 10 | **733 960 107** | 0.016 | 36 | 30 |
| 32 | 25 | 10 | **733 960 108** | 0.025 | 44 | 34 |
| 40 | 32 | 10 | **733 960 109** | 0.038 | 53 | 38 |
| 50 | 40 | 10 | **733 960 110** | 0.061 | 65 | 44 |
| 63 | 50 | 10 | **733 960 111** | 0.097 | 80 | 51 |
| 75 | 65 | 10 | **733 960 112** | 0.150 | 91 | 66 |
| 90 | 80 | 10 | **733 960 113** | 0.274 | 111 | 77 |
| 110 | 100 | 10 | **733 960 114** | 0.405 | 137 | 93 |

# ecoFIT unions for socket fusion





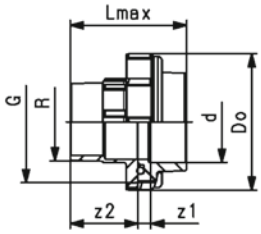

## ecoFIT Adaptor union PE80
## d20-63mm / brass / Female thread Rp

**Model:**

- Union End: Fusion socket, metric
- Brass resistant to dezincification for use in drinking water applications
- Union Nut: brass
- Gasket: O-ring NBR (Nitrile-rubber)

| d (mm) | Thread Type | Size (inch) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | Lmax (mm) | G (inch) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | Rp | ½ | 15 | 10 | **733 580 206** | 0.209 | 46 | 46 | 1 1/4 | 9 | 9 |
| 25 | Rp | ¾ | 20 | 10 | **733 580 207** | 0.269 | 52 | 48 | 1 1/2 | 10 | 9 |
| 32 | Rp | 1 | 25 | 10 | **733 580 208** | 0.376 | 64 | 51 | 2 | 10 | 9 |
| 40 | Rp | 1 ¼ | 32 | 10 | **733 580 209** | 0.596 | 79 | 56 | 2 1/2 | 13 | 9 |
| 50 | Rp | 1 ½ | 40 | 10 | **733 580 210** | 0.666 | 85 | 59 | 2 3/4 | 13 | 9 |
| 63 | Rp | 2 | | 10 | **733 580 211** | 0.960 | 104 | 65 | 3 1/2 | 14 | 9 |





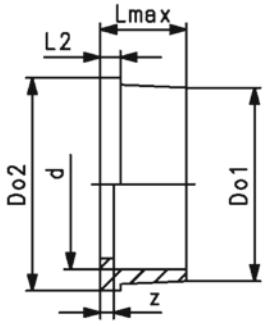

## ecoFIT Adaptor union PE80
## d20-63mm / brass / Male thread R

**Model:**

- Union End: Fusion socket, metric
- Brass resistant to dezincification for use in drinking water applications
- Union Nut: brass
- Gasket: O-ring NBR (Nitrile-rubber)

| d (mm) | Thread Type | Size (inch) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | Lmax (mm) | G (inch) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | R | ½ | 15 | 10 | **733 580 706** | 0.260 | 46 | 62 | 1 1/4 | 6 | 40 |
| 25 | R | ¾ | 20 | 10 | **733 580 707** | 0.324 | 52 | 65 | 1 1/2 | 6 | 41 |
| 32 | R | 1 | 25 | 10 | **733 580 708** | 0.470 | 64 | 71 | 2 | 6 | 45 |
| 40 | R | 1 ¼ | 32 | 10 | **733 580 709** | 0.754 | 79 | 78 | 2 1/2 | 8 | 48 |
| 50 | R | 1 ½ | 40 | 10 | **733 580 710** | 0.781 | 85 | 81 | 2 3/4 | 8 | 43 |
| 63 | R | 2 | 50 | 10 | **733 580 711** | 1.166 | 104 | 91 | 3 1/2 | 8 | 54 |






## ecoFIT Union end PE80
## d20-63mm

**Model:**

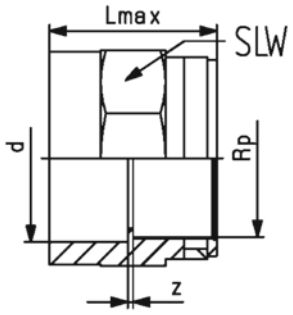
- With fusion socket metric
- Suitable for unions, tank connectors and diaphragm valves Type 514

*Only for variable area flow meters

| | d (mm) | Do1 (mm) | Do2 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | L2 (mm) | Lmax (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 20 | 28 | 30 | 15 | 10 | **734 600 106** | 0.006 | 5 | 19 | 5 |
| | 25 | 36 | 39 | 20 | 10 | **734 600 107** | 0.013 | 5 | 21 | 5 |
| | 32 | 42 | 45 | 25 | 10 | **734 600 108** | 0.015 | 6 | 23 | 5 |
| | 40 | 53 | 57 | 32 | 10 | **734 600 109** | 0.026 | 6 | 25 | 5 |
| | 50 | 59 | 63 | 40 | 10 | **734 600 110** | 0.027 | 7 | 28 | 5 |
| | 63 | 74 | 79 | 50 | 10 | **734 600 111** | 0.044 | 8 | 32 | 5 |
| * | 75 | 90 | | 65 | 10 | **700 246 419** | 0.163 | | 47 | 3 |

# ecoFIT adaptor fittings for socket fusion





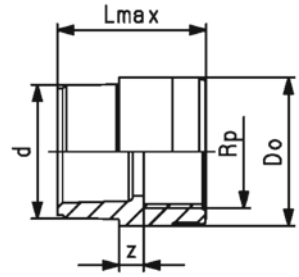

## ecoFIT Adaptor socket PE80
## d20-63mm / Female thread Rp

**Model:**

- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- With fusion socket metric and parallel female thread Rp, reinforced
- Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes

| d (mm) | Thread Type | Size (inch) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | z (mm) | SLW (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 20 | Rp | ½ | 15 | 10 | **733 910 206** | 0.020 | 35 | 7 | 32 |
| 25 | Rp | ¾ | 20 | 10 | **733 910 207** | 0.026 | 39 | 7 | 36 |
| 32 | Rp | 1 | 25 | 10 | **733 910 208** | 0.042 | 45 | 7 | 46 |
| 40 | Rp | 1 ¼ | 32 | 10 | **733 910 209** | 0.068 | 53 | 7 | 55 |
| 50 | Rp | 1 ½ | 40 | 10 | **733 910 210** | 0.098 | 54 | 9 | 65 |
| 63 | Rp | 2 | 50 | 10 | **733 910 211** | 0.155 | 62 | 9 | 80 |





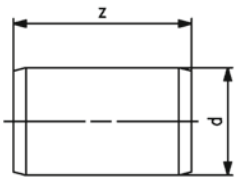

## ecoFIT Reducing bush metric PE100
## d20-50mm / SDR11 / Female thread Rp

**Model:**

- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes
- With fusion spigot metric and BSP parallel female thread, reinforced

| d (mm) | Thread Type | Size (inch) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | Lmax (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 20 | Rp | ⅜ | 15 | 10 | **733 910 434** | 0.012 | 26 | 33 | 7 |
| 25 | Rp | ½ | 20 | 10 | **733 910 437** | 0.015 | 31 | 37 | 6 |
| 32 | Rp | ¾ | 25 | 10 | **733 910 441** | 0.028 | 36 | 43 | 8 |
| 40 | Rp | 1 | 32 | 10 | **733 910 446** | 0.046 | 45 | 49 | 9 |
| 50 | Rp | 1 ¼ | 40 | 10 | **733 910 452** | 0.071 | 55 | 55 | 10 |






## ecoFIT Barrel nipple metric PE100
## d20-110mm / SDR17

**Model:**

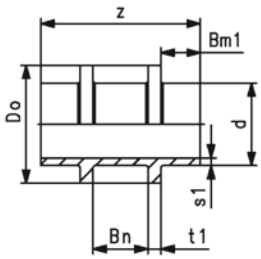
- With fusion spigots on both sides
- For the shortest possible distance between fittings

* In these two sizes, stiffeners Code No. 733 900 006 (20 x 1,9) and 733 900 007 (25 x 2.3) must be used with socket fusion joints.

| | d (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | z (mm) |
|---|---|---|---|---|---|---|
| * | 20 | 10 | **753 910 906** | 0.005 | 40 | 40 |
| * | 25 | 10 | **753 910 907** | 0.006 | 40 | 40 |
| | 32 | 10 | **753 910 908** | 0.010 | 50 | 50 |
| | 40 | 10 | **753 910 909** | 0.017 | 50 | 50 |
| | 50 | 10 | **753 910 910** | 0.029 | 60 | 60 |
| | 63 | 10 | **753 910 911** | 0.058 | 70 | 70 |
| | 75 | 10 | **753 910 912** | 0.095 | 74 | 74 |
| | 90 | 10 | **753 910 913** | 0.163 | 89 | 89 |

# ecoFIT butt welding system





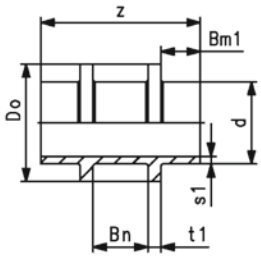

## ecoFIT Fixpoint fitting PE100
## d63-630mm / SDR11

**Model:**

- Conventional butt-welding according to DVS 2207
- Machined
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

| d (mm) | DN (mm) | PN (bar) | FM | Code | Weight (kg) | Do (mm) | s1 (mm) | t1 (mm) | z (mm) | Bm1 (mm) | Bn (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 16 | IR | **753 665 558** | 0.182 | 90 | 5.8 | 10 | 122 | 30 | 42 |
| 75 | 65 | 16 | IR | **753 665 559** | 0.265 | 110 | 6.8 | 10 | 122 | 30 | 42 |
| 90 | 80 | 16 | IR | **753 665 560** | 0.357 | 125 | 8.2 | 10 | 122 | 30 | 42 |
| 110 | 100 | 16 | IR | **753 665 561** | 0.610 | 140 | 10.0 | 15 | 142 | 30 | 52 |
| 125 | 100 | 16 | IR | **753 665 562** | 0.811 | 160 | 11.4 | 15 | 152 | 35 | 52 |
| 140 | 125 | 16 | IR | **753 665 563** | 1.068 | 180 | 12.7 | 15 | 162 | 40 | 52 |
| 160 | 150 | 16 | IR | **753 665 564** | 1.349 | 200 | 14.6 | 15 | 162 | 40 | 52 |
| 180 | 150 | 16 | IR | **753 665 565** | 2.001 | 225 | 16.4 | 20 | 182 | 45 | 52 |
| 200 | 200 | 16 | IR | **753 665 566** | 2.469 | 250 | 18.2 | 20 | 182 | 45 | 52 |
| 225 | 200 | 16 | IR | **753 665 567** | 3.438 | 280 | 20.5 | 25 | 192 | 45 | 52 |
| 250 | 250 | 16 | | **753 665 568** | 3.858 | 280 | 22.7 | 25 | 212 | 50 | 62 |
| 280 | 250 | 16 | | **753 665 569** | 5.217 | 315 | 25.4 | 30 | 222 | 50 | 62 |
| 315 | 300 | 16 | | **753 665 570** | 6.627 | 355 | 28.6 | 30 | 222 | 50 | 62 |
| 355 | 350 | 16 | | **753 665 571** | 7.731 | 400 | 32.2 | 35 | 192 | 30 | 62 |
| 400 | 400 | 16 | | **753 665 572** | 10.890 | 450 | 36.3 | 40 | 212 | 30 | 72 |
| 450 | 450 | 16 | | **753 665 573** | 14.775 | 500 | 40.9 | 45 | 232 | 35 | 72 |
| 500 | 500 | 16 | | **753 665 574** | 20.268 | 560 | 45.4 | 50 | 252 | 40 | 72 |
| 560 | 600 | 16 | | **753 665 575** | 28.608 | 630 | 50.8 | 55 | 282 | 45 | 82 |
| 630 | 600 | 16 | | **753 665 576** | 39.129 | 710 | 57.2 | 60 | 302 | 50 | 82 |





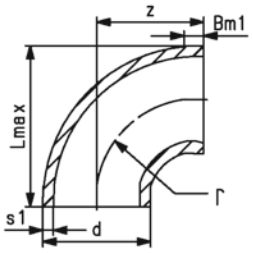

## ecoFIT Fixpoint fitting PE100
## d63-630mm / SDR17

**Model:**

- Conventional butt-welding according to DVS 2207
- Machined
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

| d (mm) | DN (mm) | PN (bar) | FM | Code | Weight (kg) | Do (mm) | s1 (mm) | t1 (mm) | z (mm) | Bm1 (mm) | Bn (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 10 | IR | **753 665 577** | 0.144 | 90 | 3.8 | 10 | 122 | 30 | 42 |
| 75 | 65 | 10 | IR | **753 665 578** | 0.212 | 110 | 4.5 | 10 | 122 | 30 | 42 |
| 90 | 80 | 10 | IR | **753 665 579** | 0.279 | 125 | 5.4 | 10 | 122 | 30 | 42 |
| 110 | 100 | 10 | IR | **753 665 580** | 0.457 | 140 | 6.6 | 15 | 142 | 30 | 52 |
| 125 | 100 | 10 | IR | **753 665 581** | 0.618 | 160 | 7.4 | 15 | 152 | 35 | 52 |
| 140 | 125 | 10 | IR | **753 665 582** | 0.815 | 180 | 8.3 | 15 | 162 | 40 | 52 |
| 160 | 150 | 10 | IR | **753 665 583** | 1.014 | 200 | 9.5 | 15 | 162 | 40 | 52 |
| 180 | 150 | 10 | IR | **753 665 584** | 1.528 | 225 | 10.7 | 20 | 182 | 45 | 52 |
| 200 | 200 | 10 | IR | **753 665 585** | 1.887 | 250 | 11.9 | 20 | 182 | 45 | 52 |
| 225 | 200 | 10 | IR | **753 665 586** | 2.661 | 280 | 13.4 | 25 | 192 | 45 | 52 |
| 250 | 250 | 10 | | **753 665 587** | 2.796 | 280 | 14.8 | 25 | 212 | 50 | 62 |
| 280 | 250 | 10 | | **753 665 588** | 3.829 | 315 | 16.6 | 30 | 222 | 50 | 62 |
| 315 | 300 | 10 | | **753 665 589** | 4.871 | 355 | 18.7 | 30 | 222 | 50 | 62 |
| 355 | 350 | 10 | | **753 665 590** | 5.812 | 400 | 21.1 | 35 | 192 | 30 | 62 |
| 400 | 400 | 10 | | **753 665 591** | 8.180 | 450 | 23.7 | 40 | 212 | 30 | 72 |
| 450 | 450 | 10 | | **753 665 592** | 11.015 | 500 | 26.7 | 45 | 232 | 35 | 72 |
| 500 | 500 | 10 | | **753 665 593** | 15.251 | 560 | 29.7 | 50 | 252 | 40 | 72 |
| 560 | 600 | 10 | | **753 665 594** | 21.557 | 630 | 33.2 | 55 | 282 | 45 | 82 |
| 630 | 600 | 10 | | **753 665 595** | 29.574 | 710 | 37.4 | 60 | 302 | 50 | 82 |





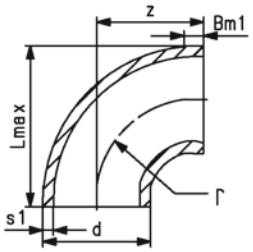

## ecoFIT Bend 90° PE100
## d20-500mm / SDR11

**Model:**

- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

| d (mm) | DN (mm) | PN (bar) | FM | Code | Weight (kg) | Lmax (mm) | r (mm) | s1 (mm) | z (mm) | Bm1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 15 | 16 | IR | **753 018 706** | 0.007 | 48.0 | 15.00 | 1.9 | 38 | 23 |
| 25 | 20 | 16 | IR | **753 018 707** | 0.013 | 54.5 | 19.00 | 2.3 | 42 | 23 |
| 32 | 25 | 16 | IR | **753 018 708** | 0.025 | 62.0 | 24.00 | 2.9 | 46 | 22 |
| 40 | 32 | 16 | IR | **753 018 709** | 0.041 | 71.0 | 30.00 | 3.7 | 51 | 21 |
| 50 | 40 | 16 | IR | **753 018 710** | 0.065 | 83.0 | 37.00 | 4.6 | 58 | 21 |
| 63 | 50 | 16 | IR | **753 018 711** | 0.124 | 97.5 | 45.00 | 5.8 | 66 | 21 |
| 75 | 65 | 16 | IR | **753 018 742** | 0.190 | 134.7 | 71.25 | 6.8 | 97 | 21 |
| 90 | 80 | 16 | IR | **753 018 743** | 0.325 | 145.0 | 85.50 | 8.2 | 100 | 22 |
| 110 | 100 | 16 | IR | **753 018 744** | 0.590 | 196.5 | 104.50 | 10.0 | 142 | 25 |
| 355 | 350 | 16 | | **753 018 624** | 18.000 | 523.5 | 330.00 | 32.3 | 346 | 70 |
| 400 | 400 | 16 | | **753 018 625** | 24.020 | 566.1 | 350.00 | 36.3 | 366 | 70 |
| 450 | 450 | 16 | | **753 018 626** | 35.360 | 651.2 | 400.00 | 40.9 | 426 | 70 |
| 500 | 500 | 16 | | **753 018 627** | 47.370 | 721.3 | 445.00 | 45.5 | 471 | 90 |





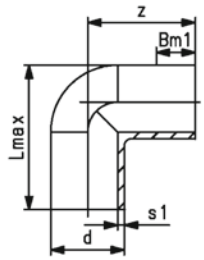

## ecoFIT Bend 90° PE100
## d50-500mm / SDR17

**Model:**

- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

| d (mm) | DN (mm) | PN (bar) | FM | Code | Weight (kg) | Lmax (mm) | r (mm) | s1 (mm) | z (mm) | Bm1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 40 | 10 | IR | **753 018 635** | 0.052 | 83.0 | 37.00 | 2.9 | 58 | 21 |
| 63 | 50 | 10 | IR | **753 018 636** | 0.087 | 97.5 | 45.00 | 3.6 | 66 | 21 |
| 75 | 65 | 10 | IR | **753 018 637** | 0.133 | 112.5 | 71.25 | 4.5 | 75 | 21 |
| 90 | 80 | 10 | IR | **753 018 638** | 0.226 | 135.0 | 85.50 | 5.4 | 90 | 22 |
| 110 | 100 | 10 | IR | **753 018 639** | 0.407 | 165.0 | 104.50 | 6.6 | 110 | 25 |
| 355 | 350 | 10 | | **753 018 524** | 12.580 | 522.5 | 330.00 | 21.1 | 345 | 70 |
| 400 | 400 | 10 | | **753 018 525** | 16.680 | 565.0 | 350.00 | 23.7 | 365 | 70 |
| 450 | 450 | 10 | | **753 018 526** | 24.760 | 650.0 | 400.00 | 26.7 | 425 | 70 |
| 500 | 500 | 10 | | **753 018 527** | 33.640 | 720.0 | 445.00 | 29.7 | 470 | 90 |





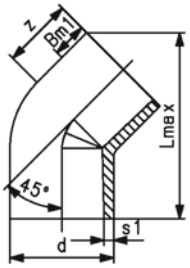

## ecoFIT Elbow 90° PE100
## d20-63mm / SDR11

**Model:**

- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

| d (mm) | DN (mm) | PN (bar) | FM | Code | Weight (kg) | Lmax (mm) | s1 (mm) | z (mm) | Bm1 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 20 | 15 | 16 | IR | **753 108 606** | 0.009 | 48.0 | 1.9 | 38 | 25 |
| 25 | 20 | 16 | IR | **753 108 607** | 0.013 | 54.5 | 2.3 | 42 | 26 |
| 32 | 25 | 16 | IR | **753 108 608** | 0.026 | 62.0 | 2.9 | 46 | 27 |
| 40 | 32 | 16 | IR | **753 108 609** | 0.047 | 71.0 | 3.7 | 51 | 22 |
| 50 | 40 | 16 | IR | **753 108 610** | 0.086 | 83.0 | 4.6 | 58 | 23 |
| 63 | 50 | 16 | IR | **753 108 611** | 0.150 | 97.5 | 5.8 | 66 | 21 |





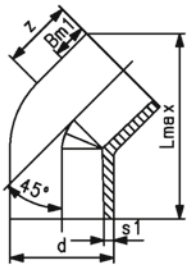

## ecoFIT Elbow 45° PE100
## d20-225mm / SDR11

**Model:**

- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

| d (mm) | DN (mm) | PN (bar) | FM | Code | Weight (kg) | Lmax (mm) | s1 (mm) | z (mm) | Bm1 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 20 | 15 | 16 | IR | **753 158 606** | 0.007 | 61.70 | 1.9 | 32 | 24 |
| 25 | 20 | 16 | IR | **753 158 607** | 0.013 | 66.88 | 2.3 | 34 | 25 |
| 32 | 25 | 16 | IR | **753 158 608** | 0.019 | 72.77 | 2.9 | 36 | 25 |
| 40 | 32 | 16 | IR | **753 158 609** | 0.036 | 80.72 | 3.7 | 39 | 25 |
| 50 | 40 | 16 | IR | **753 158 610** | 0.059 | 89.38 | 4.6 | 42 | 26 |
| 63 | 50 | 16 | IR | **753 158 611** | 0.103 | 102.51 | 5.8 | 47 | 29 |
| 75 | 65 | 16 | IR | **753 158 612** | 0.146 | 110.16 | 6.8 | 49 | 29 |
| 90 | 80 | 16 | IR | **753 158 613** | 0.241 | 127.42 | 8.2 | 57 | 34 |
| 110 | 100 | 16 | IR | **753 158 614** | 0.442 | 158.39 | 10.0 | 70 | 43 |
| 125 | 100 | 16 | IR | **753 158 615** | 0.638 | 179.06 | 11.4 | 79 | 48 |
| 140 | 125 | 16 | IR | **753 158 616** | 0.902 | 199.72 | 12.7 | 88 | 55 |
| 160 | 150 | 16 | IR | **753 158 617** | 1.340 | 227.28 | 14.6 | 100 | 60 |
| 200 | 200 | 16 | IR | **753 158 619** | 2.612 | 282.39 | 18.2 | 124 | 75 |
| 225 | 200 | 16 | IR | **753 158 620** | 3.638 | 318.54 | 20.5 | 140 | 85 |





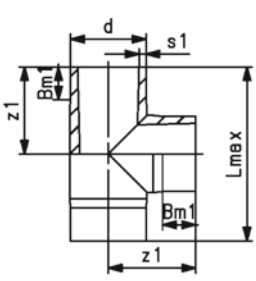

## ecoFIT Elbow 45° PE100
## d50-225mm / SDR17

**Model:**

- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

| d (mm) | DN (mm) | PN (bar) | FM | Code | Weight (kg) | Lmax (mm) | s1 (mm) | z (mm) | Bm1 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 50 | 40 | 10 | IR | **753 158 535** | 0.045 | 89.0 | 2.9 | 42 | 26 |
| 63 | 50 | 10 | IR | **753 158 536** | 0.091 | 102.5 | 3.6 | 47 | 29 |
| 75 | 65 | 10 | IR | **753 158 412** | 0.125 | 110.1 | 4.7 | 49 | 29 |
| 90 | 80 | 10 | IR | **753 158 413** | 0.198 | 127.4 | 5.6 | 57 | 34 |
| 110 | 100 | 10 | IR | **753 158 414** | 0.375 | 158.4 | 6.9 | 70 | 43 |
| 125 | 100 | 10 | IR | **753 158 540** | 0.542 | 179.1 | 7.1 | 79 | 48 |
| 140 | 125 | 10 | IR | **753 158 541** | 0.784 | 199.7 | 8.0 | 88 | 55 |
| 160 | 150 | 10 | IR | **753 158 542** | 1.190 | 227.3 | 9.1 | 100 | 60 |
| 200 | 200 | 10 | IR | **753 158 544** | 2.331 | 282.4 | 11.4 | 124 | 75 |
| 225 | 200 | 10 | IR | **753 158 545** | 3.282 | 318.5 | 12.8 | 140 | 85 |





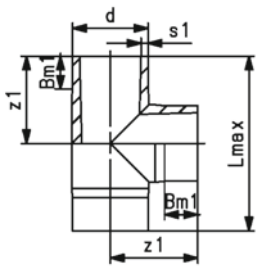

## ecoFIT Tee 90° equal PE100
## d20-500mm / SDR11

**Model:**

- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

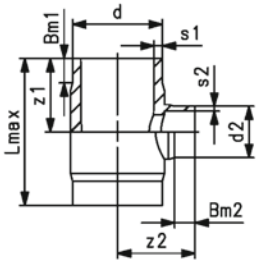
| d (mm) | DN (mm) | PN (bar) | FM | Code | Weight (kg) | Lmax (mm) | s1 (mm) | z1 (mm) | Bm1 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 20 | 15 | 16 | IR | **753 208 606** | 0.013 | 76 | 1.9 | 38 | 17 |
| 25 | 20 | 16 | IR | **753 208 607** | 0.021 | 84 | 2.3 | 42 | 17 |
| 32 | 25 | 16 | IR | **753 208 608** | 0.042 | 92 | 2.9 | 46 | 17 |
| 40 | 32 | 16 | IR | **753 208 609** | 0.065 | 102 | 3.7 | 51 | 22 |
| 50 | 40 | 16 | IR | **753 208 610** | 0.111 | 116 | 4.6 | 58 | 22 |
| 63 | 50 | 16 | IR | **753 208 611** | 0.202 | 132 | 5.8 | 66 | 21 |
| 75 | 65 | 16 | IR | **753 208 612** | 0.312 | 150 | 6.8 | 75 | 20 |
| 90 | 80 | 16 | IR | **753 208 613** | 0.553 | 180 | 8.2 | 90 | 20 |
| 110 | 100 | 16 | IR | **753 208 614** | 1.002 | 220 | 10.0 | 110 | 20 |
| 125 | 100 | 16 | IR | **753 208 615** | 1.509 | 250 | 11.4 | 125 | 25 |

table continued on the next page




| d (mm) | DN (mm) | PN (bar) | FM | Code | Weight (kg) | Lmax (mm) | s1 (mm) | z1 (mm) | Bm1 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 140 | 125 | 16 | IR | **753 208 616** | 2.105 | 280 | 12.7 | 140 | 28 |
| 160 | 150 | 16 | IR | **753 208 617** | 3.085 | 320 | 14.6 | 160 | 28 |
| 180 | 150 | 16 | IR | **753 208 618** | 5.740 | 428 | 16.4 | 214 | 94 |
| 200 | 200 | 16 | IR | **753 208 619** | 5.982 | 400 | 18.2 | 200 | 35 |
| 225 | 200 | 16 | IR | **753 208 620** | 8.090 | 440 | 20.5 | 220 | 35 |
| 250 | 250 | 16 | | **753 208 621** | 10.770 | 450 | 22.7 | 225 | 68 |
| 280 | 250 | 16 | | **753 208 622** | 15.950 | 530 | 25.4 | 265 | 87 |
| 315 | 300 | 16 | | **753 208 623** | 21.285 | 570 | 28.6 | 285 | 88 |
| 355 | 350 | 16 | | **753 208 624** | 32.600 | 690 | 32.3 | 345 | 105 |
| 400 | 400 | 16 | | **753 208 625** | 42.900 | 730 | 36.4 | 365 | 105 |
| 450 | 450 | 16 | | **753 208 626** | 63.300 | 850 | 40.9 | 425 | 135 |
| 500 | 500 | 16 | | **753 208 627** | 86.000 | 940 | 45.5 | 470 | 155 |





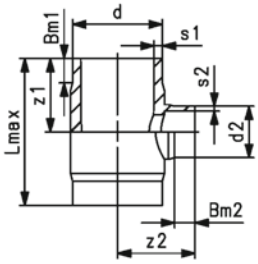

## ecoFIT Tee 90° reduced PE100
## d63-250mm / SDR11

**Model:**

- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

| d (mm) | d2 (mm) | DN (mm) | PN (bar) | FM | Code | Weight (kg) | Lmax (mm) | s1 (mm) | s2 (mm) | z1 (mm) | z2 (mm) | Bm1 (mm) | Bm2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 32 | 50 | 16 | IR | **753 208 351** | 0.161 | 130.0 | 5.8 | 2,9 | 65 | 70 | 25 | 25 |
| 63 | 50 | 50 | 16 | IR | **753 208 352** | 0.180 | 130.0 | 5.8 | 4,6 | 65 | 70 | 25 | 25 |
| 75 | 32 | 65 | 16 | IR | **753 208 353** | 0.255 | 140.0 | 6.8 | 2,9 | 70 | 75 | 25 | 25 |
| 75 | 50 | 65 | 16 | IR | **753 208 354** | 0.265 | 140.0 | 6.8 | 4,6 | 70 | 75 | 25 | 25 |
| 75 | 63 | 65 | 16 | IR | **753 208 355** | 0.278 | 140.0 | 6.8 | 5,8 | 70 | 75 | 25 | 25 |
| 90 | 50 | 80 | 16 | IR | **753 208 357** | 0.435 | 160.0 | 8.2 | 4,6 | 80 | 85 | 25 | 25 |
| 90 | 63 | 80 | 16 | IR | **753 208 358** | 0.448 | 160.0 | 8.2 | 5,8 | 80 | 85 | 25 | 25 |
| 90 | 75 | 80 | 16 | IR | **753 208 359** | 0.462 | 160.0 | 8.2 | 6,8 | 80 | 85 | 25 | 25 |
| 110 | 32 | 100 | 16 | IR | **753 208 360** | 0.685 | 180.0 | 10.0 | 2,9 | 90 | 95 | 30 | 25 |
| 110 | 50 | 100 | 16 | IR | **753 208 361** | 0.694 | 180.0 | 10.0 | 4,6 | 90 | 95 | 30 | 25 |
| 110 | 63 | 100 | 16 | IR | **753 208 362** | 0.709 | 180.0 | 10.0 | 5,8 | 90 | 95 | 30 | 25 |
| 110 | 75 | 100 | 16 | IR | **753 208 363** | 0.717 | 180.0 | 10.0 | 6,8 | 90 | 95 | 30 | 25 |
| 110 | 90 | 100 | 16 | IR | **753 208 364** | 0.734 | 180.0 | 10.0 | 8,2 | 90 | 95 | 30 | 25 |
| 160 | 63 | 150 | 16 | IR | **753 208 371** | 2.269 | 284.0 | 14.6 | 5,8 | 142 | 135 | 50 | 30 |
| 160 | 75 | 150 | 16 | IR | **753 208 372** | 2.255 | 284.0 | 14.6 | 6,8 | 142 | 135 | 50 | 30 |
| 160 | 90 | 150 | 16 | IR | **753 208 373** | 2.317 | 284.0 | 14.6 | 8,2 | 142 | 135 | 50 | 30 |
| 160 | 110 | 150 | 16 | IR | **753 208 374** | 2.353 | 284.0 | 14.6 | 10,0 | 142 | 135 | 50 | 30 |
| 225 | 90 | 200 | 16 | IR | **753 208 388** | 4.759 | 310.0 | 20.5 | 8,2 | 155 | 165 | 40 | 30 |
| 225 | 110 | 200 | 16 | IR | **753 208 389** | 4.796 | 310.0 | 20.5 | 10,0 | 155 | 165 | 40 | 30 |
| 225 | 160 | 200 | 16 | IR | **753 208 391** | 4.854 | 310.0 | 20.5 | 14,6 | 155 | 165 | 40 | 30 |






## ecoFIT Tee 90° reduced PE100
## d63-225mm / SDR17

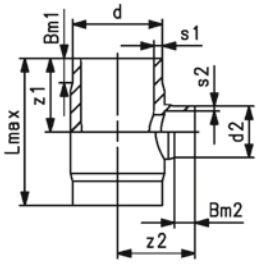
**Model:**

- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100
- 5 bar Gas / 10 bar Water

* Branch SDR11

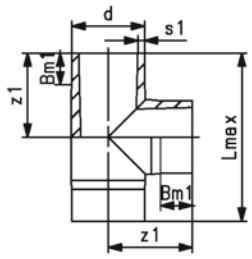
| | d (mm) | d2 (mm) | DN (mm) | PN (bar) | FM | Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| * | 63 | 32 | 50 | 10 | IR | **753 208 301** | 0.163 |
| | 63 | 50 | 50 | 10 | IR | **753 208 302** | 0.171 |
| * | 75 | 32 | 65 | 10 | IR | **753 208 303** | 0.231 |
| | 75 | 50 | 65 | 10 | IR | **753 208 304** | 0.250 |
| | 75 | 63 | 65 | 10 | IR | **753 208 305** | 0.263 |
| | 90 | 50 | 80 | 10 | IR | **753 208 307** | 0.411 |
| | 90 | 63 | 80 | 10 | IR | **753 208 308** | 0.329 |
| | 90 | 75 | 80 | 10 | IR | **753 208 309** | 0.339 |
| * | 110 | 32 | 100 | 10 | IR | **753 208 310** | 0.643 |
| | 110 | 50 | 100 | 10 | IR | **753 208 311** | 0.655 |
| | 110 | 63 | 100 | 10 | IR | **753 208 312** | 0.516 |
| | 110 | 75 | 100 | 10 | IR | **753 208 313** | 0.521 |
| | 110 | 90 | 100 | 10 | IR | **753 208 314** | 0.529 |
| | 160 | 63 | 150 | 10 | IR | **753 208 321** | 2.103 |
| | 160 | 75 | 150 | 10 | IR | **753 208 322** | 2.142 |
| | 160 | 90 | 150 | 10 | IR | **753 208 323** | 1.668 |
| | 160 | 110 | 150 | 10 | IR | **753 208 324** | 1.687 |
| | 225 | 90 | 200 | 10 | IR | **753 208 338** | 3.439 |
| | 225 | 110 | 200 | 10 | IR | **753 208 339** | 3.448 |
| | 225 | 160 | 200 | 10 | IR | **753 208 341** | 3.471 |

table continued on the next page




| | d (mm) | d2 (mm) | Lmax (mm) | s1 (mm) | s2 (mm) | z1 (mm) | z2 (mm) | Bm1 (mm) | Bm2 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| * | 63 | 32 | 130 | 3.6 | 2,9 | 65 | 70 | 25 | 25 |
| | 63 | 50 | 130 | 3.6 | 2,9 | 65 | 70 | 25 | 25 |
| * | 75 | 32 | 140 | 4.3 | 2,9 | 70 | 75 | 25 | 25 |
| | 75 | 50 | 140 | 4.3 | 2,9 | 70 | 75 | 25 | 25 |
| | 75 | 63 | 140 | 4.3 | 3,6 | 70 | 75 | 25 | 25 |
| | 90 | 50 | 160 | 5.1 | 2,9 | 80 | 85 | 25 | 25 |
| | 90 | 63 | 160 | 5.1 | 3,6 | 80 | 85 | 25 | 25 |
| | 90 | 75 | 160 | 5.1 | 4,3 | 80 | 85 | 25 | 25 |
| * | 110 | 32 | 180 | 6.3 | 2,9 | 90 | 95 | 30 | 25 |
| | 110 | 50 | 180 | 6.3 | 2,9 | 90 | 95 | 30 | 25 |
| | 110 | 63 | 180 | 6.3 | 3,6 | 90 | 95 | 30 | 25 |
| | 110 | 75 | 180 | 6.3 | 4,3 | 90 | 95 | 30 | 25 |
| | 110 | 90 | 180 | 6.3 | 5,1 | 90 | 95 | 30 | 25 |
| | 160 | 63 | 284 | 9.1 | 3,6 | 142 | 135 | 50 | 30 |
| | 160 | 75 | 284 | 9.1 | 4,3 | 142 | 135 | 50 | 30 |
| | 160 | 90 | 284 | 9.1 | 5,1 | 142 | 135 | 50 | 30 |
| | 160 | 110 | 284 | 9.1 | 6,3 | 142 | 135 | 50 | 30 |
| | 225 | 90 | 310 | 12.8 | 5,1 | 155 | 165 | 40 | 30 |
| | 225 | 110 | 310 | 12.8 | 6,3 | 155 | 165 | 40 | 30 |
| | 225 | 160 | 310 | 12.8 | 9,1 | 155 | 165 | 40 | 30 |





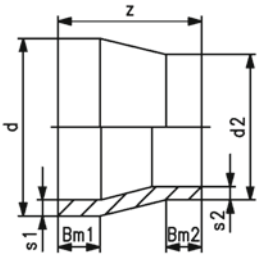

## ecoFIT Tee 90° equal PE100
## d50-500mm / SDR17

**Model:**

- Material: PE100
- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

| d (mm) | DN (mm) | PN (bar) | FM | Code | Weight (kg) | Lmax (mm) | s1 (mm) | z1 (mm) | Bm1 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 50 | 40 | 10 | IR | **753 208 510** | 0.136 | 180 | 2.9 | 90 | 57 |
| 63 | 50 | 10 | IR | **753 208 511** | 0.187 | 214 | 3.6 | 107 | 64 |
| 75 | 65 | 10 | IR | **753 208 412** | 0.232 | 148 | 4.8 | 74 | 20 |
| 90 | 80 | 10 | IR | **753 208 413** | 0.408 | 180 | 5.6 | 90 | 20 |
| 110 | 100 | 10 | IR | **753 208 414** | 0.724 | 220 | 6.9 | 110 | 20 |
| 125 | 100 | 10 | IR | **753 208 515** | 1.169 | 250 | 7.1 | 125 | 52 |
| 140 | 125 | 10 | IR | **753 208 516** | 1.805 | 314 | 8.0 | 157 | 62 |
| 160 | 150 | 10 | IR | **753 208 517** | 2.375 | 320 | 9.1 | 160 | 57 |
| 180 | 150 | 10 | IR | **753 208 518** | 4.095 | 428 | 10.2 | 214 | 96 |
| 200 | 200 | 10 | IR | **753 208 519** | 5.145 | 440 | 11.4 | 220 | 93 |
| 225 | 200 | 10 | IR | **753 208 520** | 7.140 | 450 | 12.8 | 225 | 76 |
| 250 | 250 | 10 | | **753 208 521** | 7.670 | 450 | 14.2 | 225 | 67 |
| 280 | 250 | 10 | | **753 208 522** | 10.900 | 528 | 15.9 | 264 | 86 |
| 315 | 300 | 10 | | **753 208 523** | 14.870 | 564 | 17.9 | 282 | 87 |
| 355 | 350 | 10 | | **753 208 524** | 21.800 | 690 | 21.1 | 345 | 105 |
| 400 | 400 | 10 | | **753 208 525** | 28.600 | 730 | 23.7 | 365 | 105 |
| 450 | 450 | 10 | | **753 208 526** | 42.400 | 850 | 26.7 | 425 | 135 |
| 500 | 500 | 10 | | **753 208 527** | 57.600 | 940 | 29.7 | 470 | 135 |






## ecoFIT Reducer PE100
## d25-710mm / SDR11

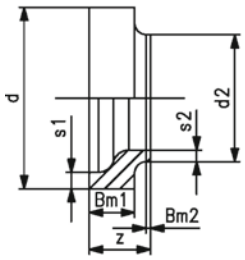
**Model:**

- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

* Up to d315 injection moulded, above machined

| | d (mm) | d2 (mm) | DN (mm) | PN (bar) | FM | Code | Weight (kg) | s1 (mm) | s2 (mm) | Z (mm) | Bm1 (mm) | Bm2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 25 | 20 | 20 | 16 | IR | **753 908 637** | 0.008 | 2.3 | 1,9 | 50 | 20 | 18 |
| | 32 | 20 | 25 | 16 | IR | **753 908 642** | 0.010 | 2.9 | 1,9 | 50 | 20 | 18 |
| | 32 | 25 | 25 | 16 | IR | **753 908 641** | 0.006 | 2.9 | 2,3 | 50 | 20 | 18 |
| | 40 | 20 | 32 | 16 | IR | **753 908 648** | 0.017 | 3.7 | 1,9 | 58 | 20 | 20 |
| | 40 | 25 | 32 | 16 | IR | **753 908 647** | 0.017 | 3.7 | 2,3 | 55 | 20 | 18 |
| | 40 | 32 | 32 | 16 | IR | **753 908 646** | 0.019 | 3.7 | 2,9 | 55 | 20 | 18 |
| | 50 | 25 | 40 | 16 | IR | **753 908 654** | 0.025 | 4.6 | 2,3 | 60 | 20 | 18 |
| | 50 | 32 | 40 | 16 | IR | **753 908 653** | 0.026 | 4.6 | 2,9 | 60 | 20 | 18 |
| | 50 | 40 | 40 | 16 | IR | **753 908 652** | 0.032 | 4.6 | 3,7 | 60 | 20 | 18 |
| | 63 | 32 | 50 | 16 | IR | **753 908 660** | 0.046 | 5.8 | 2,9 | 65 | 20 | 18 |
| | 63 | 40 | 50 | 16 | IR | **753 908 659** | 0.051 | 5.8 | 3,7 | 65 | 20 | 18 |
| | 63 | 50 | 50 | 16 | IR | **753 908 658** | 0.056 | 5.8 | 4,6 | 65 | 20 | 18 |
| | 75 | 40 | 65 | 16 | IR | **753 908 666** | 0.070 | 6.8 | 3,7 | 68 | 20 | 20 |
| | 75 | 50 | 65 | 16 | IR | **753 908 665** | 0.074 | 6.8 | 4,6 | 65 | 20 | 18 |
| | 75 | 63 | 65 | 16 | IR | **753 908 664** | 0.081 | 6.8 | 5,8 | 65 | 20 | 18 |
| | 90 | 63 | 80 | 16 | IR | **753 908 671** | 0.125 | 8.2 | 5,8 | 75 | 22 | 17 |
| | 90 | 75 | 80 | 16 | IR | **753 908 670** | 0.132 | 8.2 | 6,8 | 75 | 22 | 17 |
| | 110 | 63 | 100 | 16 | IR | **753 908 672** | 0.219 | 10.6 | 6,2 | 90 | 28 | 28 |
| | 110 | 75 | 100 | 16 | IR | **753 908 677** | 0.219 | 10.0 | 6,8 | 90 | 28 | 17 |
| | 110 | 90 | 100 | 16 | IR | **753 908 676** | 0.240 | 10.0 | 8,2 | 90 | 28 | 20 |
| | 125 | 110 | 100 | 16 | IR | **753 908 680** | 0.350 | 11.4 | 10,0 | 100 | 32 | 26 |
| | 140 | 110 | 125 | 16 | IR | **753 908 685** | 0.437 | 12.7 | 10,0 | 110 | 35 | 28 |
| | 140 | 125 | 125 | 16 | IR | **753 908 684** | 0.474 | 12.7 | 11,4 | 110 | 35 | 28 |
| | 160 | 110 | 150 | 16 | IR | **753 908 690** | 0.612 | 14.6 | 10,0 | 120 | 40 | 25 |
| | 160 | 140 | 150 | 16 | IR | **753 908 688** | 0.674 | 14.6 | 12,7 | 120 | 40 | 33 |
| | 180 | 90 | 150 | 16 | IR | **753 908 149** | 0.925 | 16.4 | 8,2 | 145 | 50 | 40 |
| | 180 | 110 | 150 | 16 | IR | **753 908 150** | 1.020 | 16.4 | 10,0 | 150 | 55 | 42 |
| | 180 | 125 | 150 | 16 | IR | **753 908 151** | 1.020 | 16.4 | 11,4 | 143 | 52 | 40 |
| | 180 | 140 | 150 | 16 | IR | **753 908 152** | 1.015 | 16.4 | 12,7 | 135 | 51 | 47 |
| | 180 | 160 | 150 | 16 | IR | **753 908 153** | 1.140 | 16.4 | 14,6 | 135 | 55 | 52 |
| | 200 | 160 | 200 | 16 | IR | **753 908 692** | 1.247 | 18.2 | 14,6 | 150 | 50 | 35 |
| | 200 | 180 | 200 | 16 | IR | **753 908 158** | 1.475 | 18.2 | 16,4 | 145 | 62 | 54 |
| | 225 | 110 | 200 | 16 | IR | **753 908 695** | 1.559 | 20.5 | 10,0 | 171 | 55 | 45 |
| | 225 | 160 | 200 | 16 | IR | **753 908 696** | 1.590 | 20.5 | 14,6 | 160 | 55 | 37 |
| | 225 | 180 | 200 | 16 | IR | **753 908 162** | 1.800 | 22.7 | 20,5 | 160 | 64 | 59 |
| | 225 | 200 | 200 | 16 | IR | **753 908 697** | 1.844 | 20.5 | 18,2 | 160 | 55 | 48 |
| | 250 | 160 | 250 | 16 | IR | **753 908 165** | 2.305 | 20.5 | 14,6 | 177 | 65 | 53 |
| | 250 | 180 | 250 | 16 | | **753 900 001** | 2.513 | 22.7 | 16,4 | 175 | 60 | 55 |
| | 250 | 200 | 250 | 16 | | **753 900 002** | 2.450 | 22.7 | 18,2 | 190 | 60 | 60 |
| | 250 | 225 | 250 | 16 | | **753 908 168** | 3.025 | 22.7 | 20,5 | 180 | 65 | 65 |
| | 280 | 200 | 250 | 16 | | **753 900 004** | 3.540 | 25.4 | 18,2 | 205 | 70 | 50 |
| | 280 | 225 | 250 | 16 | | **753 908 172** | 3.860 | 25.4 | 20,5 | 210 | 75 | 58 |
| | 280 | 250 | 250 | 16 | | **753 908 173** | 4.155 | 25.4 | 22,7 | 206 | 75 | 60 |
| | 315 | 200 | 300 | 16 | | **753 900 007** | 3.996 | 28.6 | 20,5 | 225 | 80 | 50 |
| | 315 | 225 | 300 | 16 | | **753 908 176** | 5.260 | 28.6 | 20,5 | 237 | 84 | 57 |
| | 315 | 250 | 300 | 16 | | **753 908 177** | 5.415 | 28.6 | 22,7 | 236 | 86 | 64 |
| | 315 | 280 | 300 | 16 | | **753 908 178** | 5.600 | 28.6 | 25,4 | 231 | 86 | 72 |
| * | 710 | 500 | | | | **753 900 035** | 20.890 | 64.5 | 45,4 | 190 | 84 | 40 |
| * | 710 | 560 | | | | **753 900 036** | 19.590 | 64.5 | 50,8 | 170 | 81 | 40 |
| * | 710 | 630 | | | | **753 900 037** | 17.030 | 64.5 | 57,2 | 140 | 71 | 40 |





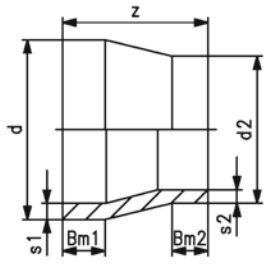

## ecoFIT Flush style reducer PE100
## d355-630mm / SDR11

**Model:**

- Conventional butt-welding according to DVS 2207
- Clamping on welding machine needs to be done always on the bigger diameter (d1)
- The butt fusion machine must be suitable to weld both dimensions (d1 and d2)

| d (mm) | d2 (mm) | DN (mm) | PN (bar) | Remarks | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | Q2 (mm) | s1 (mm) | s2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 355 | 225 | 350 | 16 | | **753 909 809** | 5.230 | 130 | 95 | 10.0 | 32.2 | 20.5 |
| 355 | 250 | 350 | 16 | | **753 909 810** | 3.752 | 115 | 80 | 10.0 | 32.3 | 22.7 |
| 355 | 280 | 350 | 16 | | **753 909 811** | 4.066 | 115 | 80 | 10.0 | 32.3 | 25.4 |
| 355 | 315 | 350 | 16 | | **753 909 812** | 4.149 | 115 | 80 | 15.0 | 32.3 | 28.6 |
| 400 | 225 | 400 | 16 | | **753 909 816** | 7.964 | 145 | 110 | 10.0 | 36.3 | 20.5 |
| 400 | 250 | 400 | 16 | | **753 909 817** | 6.861 | 135 | 100 | 10.0 | 36.4 | 22.7 |
| 400 | 280 | 400 | 16 | | **753 909 818** | 6.679 | 135 | 100 | 10.0 | 36.4 | 25.4 |
| 400 | 315 | 400 | 16 | | **753 909 819** | 6.460 | 135 | 100 | 10.0 | 36.4 | 28.6 |
| 400 | 355 | 400 | 16 | | **753 909 820** | 6.101 | 135 | 100 | 13.0 | 36.4 | 32.3 |
| 450 | 250 | 450 | 16 | | **753 909 823** | 11.087 | 160 | 120 | 10.0 | 40.9 | 22.7 |
| 450 | 280 | 450 | 16 | | **753 909 824** | 9.604 | 150 | 100 | 15.0 | 40.9 | 25.4 |
| 450 | 315 | 450 | 16 | | **753 909 825** | 9.091 | 150 | 100 | 15.0 | 40.9 | 28.6 |
| 450 | 355 | 450 | 16 | | **753 909 826** | 8.656 | 150 | 100 | 15.0 | 40.9 | 32.3 |
| 450 | 400 | 450 | 16 | | **753 909 827** | 8.369 | 150 | 100 | 15.0 | 40.9 | 36.4 |
| 500 | 250 | 500 | 16 | | **753 909 830** | 15.784 | 180 | 130 | 10.0 | 45.4 | 22.7 |
| 500 | 315 | 500 | 16 | | **753 909 832** | 10.921 | 165 | 115 | 10.0 | 45.5 | 28.6 |
| 500 | 355 | 500 | 16 | | **753 909 833** | 11.321 | 165 | 115 | 10.0 | 45.5 | 32.3 |
| 500 | 400 | 500 | 16 | | **753 909 834** | 12.453 | 165 | 115 | 10.0 | 45.5 | 36.4 |
| 500 | 450 | 500 | 16 | | **753 909 835** | 12.640 | 165 | 115 | 25.0 | 45.5 | 40.9 |
| 560 | 315 | 600 | 16 | | **753 909 836** | 22.204 | 210 | 160 | 10.0 | 50.8 | 28.6 |
| 630 | 315 | 600 | 16 | | **753 909 841** | 29.984 | 220 | 170 | 10.0 | 57.2 | 28.6 |
| 630 | 355 | 600 | 16 | | **753 909 842** | 29.376 | 220 | 170 | 10.0 | 57.2 | 32.2 |
| 630 | 400 | 600 | 16 | | **753 909 843** | 26.541 | 210 | 160 | 10.0 | 57.2 | 36.3 |
| 630 | 500 | 600 | 16 | | **753 909 845** | 19.243 | 175 | 125 | 10.0 | 57.2 | 45.4 |






## ecoFIT Reducer PE100
## d50-1000mm / SDR17

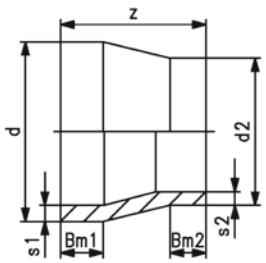
**Model:**

- Material: PE100
- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

* Up to d315 injection moulded, above machined

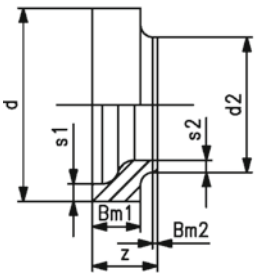
| | d (mm) | d2 (mm) | DN (mm) | PN (bar) | FM | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | Q2 (mm) | s1 (mm) | s2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50 | 40 | 40 | 10 | IR | **753 908 713** | 0.037 | 134 | 56 | 52 | 2.9 | 2,3 |
| | 63 | 50 | 50 | 10 | IR | **753 908 718** | 0.055 | 87 | 29 | 27 | 3.6 | 2,9 |
| | 75 | 40 | 65 | 10 | IR | **753 908 904** | 0.041 | 71 | 19 | 12 | 4.3 | 2,3 |
| | 75 | 50 | 65 | 10 | IR | **753 908 465** | 0.049 | 65 | 20 | 20 | 4.3 | 2,9 |
| | 75 | 63 | 65 | 10 | IR | **753 908 464** | 0.056 | 65 | 20 | 20 | 4.3 | 3,6 |
| | 90 | 63 | 80 | 10 | IR | **753 908 471** | 0.083 | 75 | 20 | 19 | 5.1 | 3,6 |
| | 90 | 75 | 80 | 10 | IR | **753 908 470** | 0.092 | 75 | 20 | 20 | 5.1 | 4,3 |
| | 110 | 63 | 100 | 10 | IR | **753 908 472** | 0.157 | 90 | 28 | 28 | 6.9 | 4,0 |
| | 110 | 75 | 100 | 10 | IR | **753 908 477** | 0.157 | 89 | 28 | 18 | 6.3 | 4,3 |
| | 110 | 90 | 100 | 10 | IR | **753 908 476** | 0.164 | 90 | 28 | 20 | 6.3 | 5,1 |
| | 125 | 110 | 100 | 10 | IR | **753 908 738** | 0.275 | 100 | 40 | 40 | 7.1 | 6,3 |
| | 140 | 110 | 125 | 10 | IR | **753 908 742** | 0.375 | 120 | 53 | 43 | 8.0 | 6,3 |
| | 140 | 125 | 125 | 10 | IR | **753 908 743** | 0.395 | 124 | 54 | 43 | 8.0 | 7,1 |
| | 160 | 110 | 150 | 10 | IR | **753 908 746** | 0.460 | 129 | 40 | 34 | 9.1 | 6,3 |
| | 160 | 140 | 150 | 10 | IR | **753 908 748** | 0.525 | 125 | 49 | 38 | 9.1 | 8,0 |
| | 180 | 90 | 150 | 10 | IR | **753 908 749** | 0.650 | 145 | 53 | 42 | 10.2 | 5,1 |
| | 180 | 110 | 150 | 10 | IR | **753 908 750** | 0.680 | 150 | 55 | 42 | 10.2 | 6,3 |
| | 180 | 125 | 150 | 10 | IR | **753 908 751** | 0.705 | 143 | 52 | 40 | 10.2 | 7,1 |

table continued on the next page




| | d (mm) | d2 (mm) | DN (mm) | PN (bar) | FM | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | Q2 (mm) | s1 (mm) | s2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 180 | 140 | 150 | 10 | IR | **753 908 752** | 0.670 | 135 | 51 | 47 | 10.2 | 8,0 |
| | 180 | 160 | 150 | 10 | IR | **753 908 753** | 0.750 | 135 | 55 | 52 | 10.2 | 9,1 |
| | 200 | 160 | 200 | 10 | IR | **753 908 931** | 0.860 | 145 | 50 | 40 | 11.4 | 9,1 |
| | 200 | 180 | 200 | 10 | IR | **753 908 758** | 0.955 | 145 | 62 | 54 | 11.4 | 10,2 |
| | 225 | 110 | 200 | 10 | IR | **753 908 938** | 1.382 | 160 | 55 | 35 | 12.8 | 6,3 |
| | 225 | 160 | 200 | 10 | IR | **753 908 933** | 1.120 | 160 | 55 | 40 | 12.8 | 9,1 |
| | 225 | 180 | 200 | 10 | IR | **753 908 762** | 1.215 | 166 | 64 | 57 | 12.8 | 10,2 |
| | 225 | 200 | 200 | 10 | IR | **753 908 932** | 1.234 | 171 | 55 | 50 | 12.8 | 11,4 |
| | 250 | 160 | 250 | 10 | | **753 908 765** | 1.620 | 174 | 64 | 52 | 14.2 | 9,1 |
| | 250 | 180 | 250 | 10 | | **753 902 801** | 1.690 | 175 | 60 | 55 | 14.8 | 10,7 |
| | 250 | 200 | 250 | 10 | | **753 902 802** | 1.899 | 190 | 60 | 60 | 14.8 | 11,9 |
| | 250 | 225 | 250 | 10 | | **753 908 768** | 1.990 | 180 | 65 | 65 | 14.2 | 12,8 |
| | 280 | 200 | 250 | 10 | | **753 902 804** | 2.585 | 205 | 70 | 50 | 16.6 | 11,9 |
| | 280 | 225 | 250 | 10 | | **753 908 772** | 2.505 | 200 | 70 | 55 | 15.9 | 12,8 |
| | 280 | 250 | 250 | 10 | | **753 908 773** | 2.655 | 200 | 73 | 62 | 15.9 | 14,2 |
| | 315 | 200 | 300 | 10 | | **753 902 807** | 2.907 | 225 | 80 | 50 | 18.7 | 11,9 |
| | 315 | 225 | 300 | 10 | | **753 908 776** | 3.560 | 237 | 84 | 59 | 17.9 | 12,8 |
| | 315 | 250 | 300 | 10 | | **753 908 777** | 3.695 | 234 | 88 | 64 | 17.9 | 14,2 |
| | 315 | 280 | 300 | 10 | | **753 908 778** | 3.940 | 227 | 85 | 72 | 17.9 | 15,9 |
| * | 710 | 500 | 700 | 10 | | **753 902 835** | 16.750 | 190 | 84 | 40 | 42.1 | 29,7 |
| * | 710 | 560 | 700 | 10 | | **753 902 836** | 15.014 | 170 | 81 | 40 | 42.1 | 33,2 |
| * | 710 | 630 | 700 | 10 | | **753 902 837** | 12.215 | 140 | 71 | 40 | 42.1 | 37,4 |
| * | 800 | 560 | 800 | 10 | | **753 902 838** | 22.731 | 200 | 85 | 40 | 47.4 | 33,2 |
| * | 800 | 630 | 800 | 10 | | **753 902 839** | 20.475 | 180 | 85 | 40 | 47.4 | 37,4 |
| * | 800 | 710 | 800 | 10 | | **753 902 840** | 16.774 | 150 | 78 | 40 | 47.4 | 42,1 |
| * | 900 | 630 | 900 | 10 | | **753 902 841** | 32.055 | 220 | 96 | 40 | 53.3 | 37,4 |
| * | 900 | 710 | 900 | 10 | | **753 902 842** | 27.731 | 190 | 89 | 40 | 53.3 | 42,1 |
| * | 900 | 800 | 900 | 10 | | **753 902 843** | 22.854 | 160 | 85 | 40 | 53.3 | 47,4 |
| * | 1000 | 800 | 1000 | 10 | | **753 902 845** | 33.910 | 180 | 86 | 40 | 59.3 | 47,4 |
| * | 1000 | 710 | 1000 | 10 | | **753 902 844** | 40.412 | 220 | 91 | 40 | 59.3 | 42,1 |
| * | 1000 | 900 | 1000 | 10 | | **753 902 846** | 25.824 | 140 | 75 | 40 | 59.3 | 53,3 |





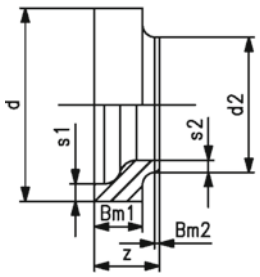

## ecoFIT Flush style reducer PE100 d355-630mm / SDR17

**Model:**

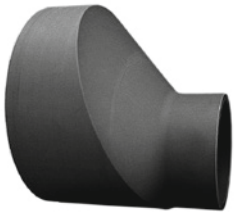
- Conventional butt-welding according to DVS 2207
- Clamping on welding machine needs to be done always on the bigger diameter (d1)
- The butt fusion machine must be suitable to weld both dimensions (d1 and d2)

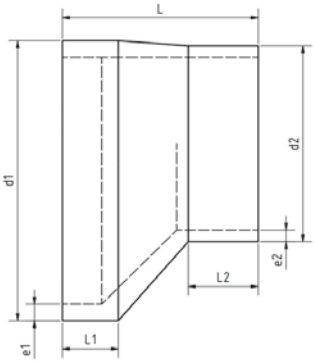
| d (mm) | d2 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | Q2 (mm) | s1 (mm) | s2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 355 | 225 | 350 | 10 | **753 909 859** | 3.922 | 120 | 85 | 10 | 21.1 | 13.4 |
| 355 | 250 | 350 | 10 | **753 909 860** | 3.318 | 115 | 80 | 10 | 21.1 | 14.8 |
| 355 | 280 | 350 | 10 | **753 909 861** | 3.134 | 115 | 80 | 10 | 21.1 | 16.6 |
| 355 | 315 | 350 | 10 | **753 909 862** | 2.716 | 115 | 80 | 15 | 21.1 | 18.7 |
| 400 | 225 | 400 | 10 | **753 909 866** | 6.299 | 135 | 100 | 10 | 23.7 | 13.4 |
| 400 | 250 | 400 | 10 | **753 909 867** | 5.754 | 135 | 100 | 10 | 23.7 | 14.8 |
| 400 | 280 | 400 | 10 | **753 909 868** | 5.468 | 135 | 100 | 10 | 23.7 | 16.6 |
| 400 | 315 | 400 | 10 | **753 909 869** | 5.125 | 135 | 100 | 10 | 23.7 | 18.7 |
| 400 | 355 | 400 | 10 | **753 909 870** | 4.614 | 135 | 100 | 13 | 23.7 | 21.1 |
| 450 | 225 | 450 | 10 | **753 909 872** | 9.323 | 150 | 110 | 10 | 26.7 | 13.4 |
| 450 | 250 | 450 | 10 | **753 909 873** | 9.000 | 150 | 110 | 10 | 27.7 | 14.8 |
| 450 | 280 | 450 | 10 | **753 909 874** | 8.066 | 150 | 110 | 15 | 26.7 | 16.6 |
| 450 | 315 | 450 | 10 | **753 909 875** | 7.354 | 150 | 110 | 15 | 26.7 | 18.7 |
| 450 | 355 | 450 | 10 | **753 909 876** | 6.724 | 150 | 110 | 15 | 26.7 | 21.1 |
| 450 | 400 | 450 | 10 | **753 909 877** | 6.238 | 150 | 110 | 15 | 26.7 | 23.7 |
| 500 | 225 | 500 | 10 | **753 909 879** | 12.120 | 165 | 115 | 10 | 29.7 | 13.4 |
| 500 | 280 | 500 | 10 | **753 909 881** | 11.459 | 165 | 115 | 10 | 29.7 | 16.6 |
| 500 | 315 | 500 | 10 | **753 909 882** | 10.502 | 165 | 115 | 10 | 29.7 | 18.7 |
| 500 | 355 | 500 | 10 | **753 909 883** | 10.154 | 165 | 115 | 10 | 29.7 | 21.1 |
| 500 | 400 | 500 | 10 | **753 909 884** | 8.642 | 165 | 115 | 10 | 29.7 | 23.7 |

table continued on the next page




| d (mm) | d2 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | Q2 (mm) | s1 (mm) | s2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 500 | 450 | 500 | 10 | **753 909 885** | 7.978 | 165 | 115 | 25 | 29.7 | 26.7 |
| 560 | 500 | 600 | 10 | **753 909 890** | 10.623 | 165 | 115 | 20 | 33.2 | 29.7 |
| 630 | 315 | 600 | 10 | **753 909 891** | 27.625 | 220 | 170 | 10 | 37.4 | 18.7 |
| 630 | 355 | 600 | 10 | **753 909 892** | 26.454 | 220 | 170 | 10 | 37.4 | 21.1 |
| 630 | 450 | 600 | 10 | **753 909 894** | 19.957 | 195 | 145 | 10 | 37.4 | 26.7 |
| 630 | 500 | 600 | 10 | **753 909 895** | 15.910 | 175 | 125 | 10 | 37.4 | 29.7 |
| 630 | 560 | 600 | 10 | **753 909 896** | 13.272 | 165 | 115 | 20 | 37.4 | 33.2 |





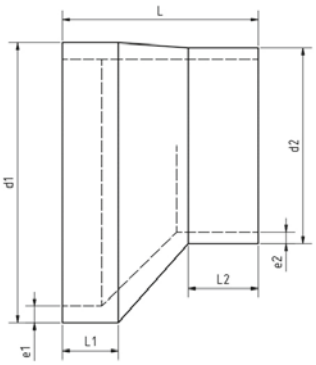

## ecoFIT Reducing Bushes excentric PE100 SDR 11

**Model:**

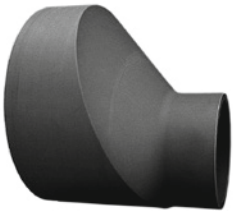
- Conventional butt-welding according to DVS 2207
- Machined

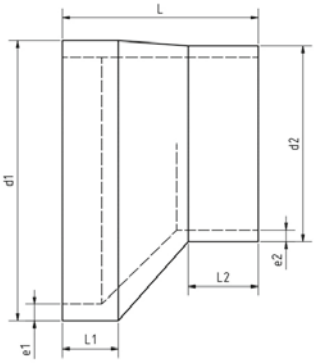
| d1 (mm) | d2 (mm) | PN (bar) | SDR | Code | L (mm) | L1 (mm) | L2 (mm) | e1 (mm) | e2 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 16 | 11 | **700 647 600** | 120 | 35 | 35 | 5,8 | 4,6 |
| 75 | 50 | 16 | 11 | **700 647 601** | 120 | 40 | 35 | 6,8 | 4,6 |
| 75 | 63 | 16 | 11 | **700 647 602** | 120 | 40 | 35 | 6,8 | 5,8 |
| 90 | 63 | 16 | 11 | **700 647 603** | 140 | 50 | 50 | 8,2 | 5,8 |
| 90 | 75 | 16 | 11 | **700 647 604** | 140 | 50 | 50 | 8,2 | 6,8 |
| 110 | 75 | 16 | 11 | **700 647 605** | 140 | 50 | 50 | 10 | 6,8 |
| 110 | 90 | 16 | 11 | **700 647 606** | 140 | 50 | 50 | 10 | 8,2 |
| 125 | 90 | 16 | 11 | **700 647 607** | 140 | 50 | 50 | 11,4 | 5,1 |
| 125 | 110 | 16 | 11 | **700 647 608** | 140 | 50 | 50 | 11,4 | 10 |
| 140 | 90 | 16 | 11 | **700 647 609** | 140 | 50 | 50 | 12,7 | 8,2 |
| 140 | 110 | 16 | 11 | **700 647 610** | 140 | 50 | 50 | 12,7 | 10 |
| 160 | 90 | 16 | 11 | **700 647 611** | 140 | 50 | 54 | 14,6 | 8,2 |
| 160 | 110 | 16 | 11 | **700 647 612** | 120 | 40 | 45 | 14,6 | 10 |
| 160 | 125 | 16 | 11 | **700 647 613** | 110 | 40 | 44 | 14,6 | 11,4 |
| 160 | 140 | 16 | 11 | **700 647 614** | 90 | 40 | 33 | 14,6 | 12,7 |
| 180 | 125 | 16 | 11 | **700 647 615** | 130 | 40 | 52 | 16,4 | 11,4 |
| 180 | 140 | 16 | 11 | **700 647 616** | 110 | 40 | 41 | 16,4 | 12,7 |
| 180 | 160 | 16 | 11 | **700 647 617** | 90 | 40 | 33 | 16,4 | 16,4 |
| 200 | 140 | 16 | 11 | **700 647 618** | 140 | 40 | 50 | 18,2 | 12,7 |
| 200 | 160 | 16 | 11 | **700 647 619** | 120 | 40 | 41 | 18,2 | 14,6 |
| 200 | 180 | 16 | 11 | **700 647 620** | 100 | 40 | 43 | 18,2 | 16,4 |
| 225 | 160 | 16 | 11 | **700 647 621** | 140 | 40 | 57 | 20,5 | 14,6 |
| 225 | 180 | 16 | 11 | **700 647 622** | 120 | 40 | 48 | 20,5 | 16,4 |
| 225 | 200 | 16 | 11 | **700 647 623** | 100 | 40 | 40 | 20,5 | 18,2 |
| 250 | 180 | 16 | 11 | **700 647 624** | 150 | 40 | 54 | 22,7 | 16,4 |
| 250 | 200 | 16 | 11 | **700 647 625** | 130 | 40 | 55 | 22,7 | 18,2 |
| 250 | 225 | 16 | 11 | **700 647 626** | 110 | 40 | 40 | 22,7 | 20,5 |
| 280 | 200 | 16 | 11 | **700 647 627** | 160 | 40 | 58 | 25,4 | 18,2 |
| 280 | 225 | 16 | 11 | **700 647 628** | 130 | 40 | 52 | 25,4 | 20,5 |
| 280 | 250 | 16 | 11 | **700 647 629** | 110 | 40 | 47 | 25,4 | 22,7 |
| 315 | 225 | 16 | 11 | **700 647 630** | 160 | 40 | 62 | 28,6 | 20,5 |
| 315 | 250 | 16 | 11 | **700 647 631** | 140 | 40 | 57 | 28,6 | 22,7 |
| 315 | 280 | 16 | 11 | **700 647 632** | 120 | 40 | 54 | 28,6 | 25,4 |
| 355 | 250 | 16 | 11 | **700 647 633** | 180 | 40 | 74 | 32,2 | 22,7 |
| 355 | 280 | 16 | 11 | **700 647 634** | 150 | 40 | 61 | 32,2 | 25,4 |
| 355 | 315 | 16 | 11 | **700 647 635** | 120 | 40 | 51 | 32,2 | 28,6 |
| 400 | 280 | 16 | 11 | **700 647 636** | 200 | 40 | 85 | 36,3 | 25,4 |
| 400 | 315 | 16 | 11 | **700 647 637** | 170 | 40 | 75 | 36,3 | 28,6 |
| 400 | 355 | 16 | 11 | **700 647 638** | 130 | 40 | 58 | 36,3 | 32,2 |
| 450 | 315 | 16 | 11 | **700 647 639** | 210 | 40 | 86 | 40,9 | 28,6 |
| 450 | 355 | 16 | 11 | **700 647 640** | 180 | 40 | 79 | 40,9 | 32,2 |
| 450 | 400 | 16 | 11 | **700 647 641** | 140 | 40 | 65 | 40,9 | 36,3 |
| 500 | 315 | 16 | 11 | **700 647 642** | 260 | 40 | 107 | 45,4 | 28,6 |
| 500 | 355 | 16 | 11 | **700 647 643** | 220 | 40 | 91 | 45,4 | 32,2 |

table continued on the next page




| d1 (mm) | d2 (mm) | PN (bar) | SDR | Code | L (mm) | L1 (mm) | L2 (mm) | e1 (mm) | e2 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 500 | 400 | 16 | 11 | **700 647 644** | 190 | 40 | 86 | 45,4 | 36,3 |
| 500 | 450 | 16 | 11 | **700 647 645** | 140 | 40 | 65 | 45,4 | 40,9 |
| 560 | 450 | 16 | 11 | **700 647 646** | 200 | 40 | 91 | 50,8 | 40,9 |
| 560 | 500 | 16 | 11 | **700 647 647** | 150 | 40 | 70 | 50,8 | 45,4 |
| 630 | 500 | 16 | 11 | **700 647 648** | 220 | 40 | 99 | 57,2 | 45,4 |
| 630 | 560 | 16 | 11 | **700 647 649** | 170 | 40 | 84 | 57,2 | 50,8 |





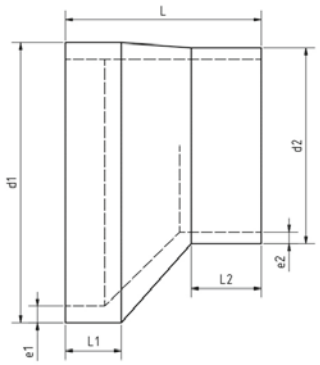

## ecoFIT Reducing Bushes excentric PE100 SDR 17.6

**Model:**

- Machined
- Conventional butt-welding according to DVS 2207

| d1 (mm) | d2 (mm) | PN (bar) | SDR | Code | L (mm) | L1 (mm) | L2 (mm) | e1 (mm) | e2 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 10 | 17.6 | **700 647 650** | 120 | 35 | 35 | 3,6 | 2,9 |
| 75 | 50 | 10 | 17.6 | **700 647 651** | 120 | 40 | 35 | 4,3 | 2,9 |
| 75 | 63 | 10 | 17.6 | **700 647 652** | 120 | 40 | 35 | 4,3 | 3,6 |
| 90 | 63 | 10 | 17.6 | **700 647 653** | 140 | 50 | 50 | 5,1 | 3,6 |
| 90 | 75 | 10 | 17.6 | **700 647 654** | 140 | 50 | 50 | 5,1 | 4,3 |
| 110 | 75 | 10 | 17.6 | **700 647 655** | 140 | 50 | 50 | 6,3 | 4,3 |
| 110 | 90 | 10 | 17.6 | **700 647 656** | 140 | 50 | 50 | 6,3 | 5,1 |
| 125 | 90 | 10 | 17.6 | **700 647 657** | 140 | 50 | 50 | 7,1 | 5,1 |
| 125 | 110 | 10 | 17.6 | **700 647 658** | 140 | 50 | 50 | 7,1 | 6,3 |
| 140 | 90 | 10 | 17.6 | **700 647 659** | 140 | 50 | 50 | 8,0 | 5,1 |
| 140 | 110 | 10 | 17.6 | **700 647 660** | 140 | 50 | 50 | 8,0 | 6,3 |
| 160 | 90 | 10 | 17.6 | **700 647 661** | 140 | 50 | 54 | 9,5 | 5,4 |
| 160 | 110 | 10 | 17.6 | **700 647 662** | 120 | 40 | 45 | 9,5 | 6,6 |
| 160 | 125 | 10 | 17.6 | **700 647 663** | 110 | 40 | 44 | 9,5 | 7,4 |
| 160 | 140 | 10 | 17.6 | **700 647 664** | 90 | 40 | 33 | 9,5 | 8,3 |
| 180 | 125 | 10 | 17.6 | **700 647 665** | 130 | 40 | 52 | 10,7 | 7,4 |
| 180 | 140 | 10 | 17.6 | **700 647 666** | 110 | 40 | 41 | 10,7 | 8,3 |
| 180 | 160 | 10 | 17.6 | **700 647 667** | 90 | 40 | 33 | 10,7 | 9,5 |
| 200 | 140 | 10 | 17.6 | **700 647 668** | 140 | 40 | 50 | 11,9 | 8,3 |
| 200 | 160 | 10 | 17.6 | **700 647 669** | 120 | 40 | 41 | 11,9 | 9,5 |
| 200 | 180 | 10 | 17.6 | **700 647 670** | 100 | 40 | 43 | 11,9 | 10,7 |
| 225 | 160 | 10 | 17.6 | **700 647 671** | 140 | 40 | 57 | 13,4 | 9,5 |
| 225 | 180 | 10 | 17.6 | **700 647 672** | 120 | 40 | 48 | 13,4 | 10,7 |
| 225 | 200 | 10 | 17.6 | **700 647 673** | 100 | 40 | 40 | 13,4 | 11,9 |
| 250 | 180 | 10 | 17.6 | **700 647 674** | 150 | 40 | 54 | 14,8 | 10,7 |
| 250 | 200 | 10 | 17.6 | **700 647 675** | 130 | 40 | 55 | 14,8 | 11,9 |
| 250 | 225 | 10 | 17.6 | **700 647 676** | 110 | 40 | 40 | 14,8 | 13,4 |
| 280 | 200 | 10 | 17.6 | **700 647 677** | 160 | 40 | 58 | 16,6 | 11,9 |
| 280 | 225 | 10 | 17.6 | **700 647 678** | 130 | 40 | 52 | 16,6 | 13,4 |
| 280 | 250 | 10 | 17.6 | **700 647 679** | 110 | 40 | 47 | 16,6 | 14,8 |
| 315 | 225 | 10 | 17.6 | **700 647 680** | 160 | 40 | 62 | 18,7 | 13,4 |
| 315 | 250 | 10 | 17.6 | **700 647 681** | 140 | 40 | 57 | 18,7 | 14,8 |
| 315 | 280 | 10 | 17.6 | **700 647 682** | 120 | 40 | 54 | 18,7 | 16,6 |
| 355 | 250 | 10 | 17.6 | **700 647 683** | 180 | 40 | 74 | 21,1 | 14,8 |
| 355 | 280 | 10 | 17.6 | **700 647 684** | 150 | 40 | 61 | 21,1 | 16,6 |
| 355 | 315 | 10 | 17.6 | **700 647 685** | 120 | 40 | 51 | 21,1 | 18,7 |
| 400 | 280 | 10 | 17.6 | **700 647 686** | 200 | 40 | 85 | 23,7 | 16,6 |
| 400 | 315 | 10 | 17.6 | **700 647 687** | 170 | 40 | 75 | 23,7 | 18,7 |
| 400 | 355 | 10 | 17.6 | **700 647 688** | 130 | 40 | 58 | 23,7 | 21,1 |
| 450 | 315 | 10 | 17.6 | **700 647 689** | 210 | 40 | 86 | 26,7 | 18,7 |
| 450 | 355 | 10 | 17.6 | **700 647 690** | 180 | 40 | 79 | 26,7 | 21,1 |

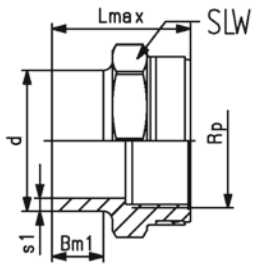
table continued on the next page




| d1 (mm) | d2 (mm) | PN (bar) | SDR | Code | L (mm) | L1 (mm) | L2 (mm) | e1 (mm) | e2 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 450 | 400 | 10 | 17.6 | **700 647 691** | 140 | 40 | 65 | 26,7 | 23,7 |
| 500 | 315 | 10 | 17.6 | **700 647 692** | 260 | 40 | 107 | 29,7 | 18,7 |
| 500 | 355 | 10 | 17.6 | **700 647 693** | 220 | 40 | 91 | 29,7 | 21,1 |
| 500 | 400 | 10 | 17.6 | **700 647 694** | 190 | 40 | 86 | 29,7 | 23,7 |
| 500 | 450 | 10 | 17.6 | **700 647 695** | 140 | 40 | 65 | 29,7 | 26,7 |
| 560 | 450 | 10 | 17.6 | **700 647 696** | 200 | 40 | 91 | 33,2 | 26,7 |
| 560 | 500 | 10 | 17.6 | **700 647 697** | 150 | 40 | 70 | 33,2 | 29,7 |
| 630 | 500 | 10 | 17.6 | **700 647 698** | 220 | 40 | 99 | 37,4 | 29,7 |
| 630 | 560 | 10 | 17.6 | **700 647 699** | 170 | 40 | 84 | 37,4 | 33,2 |

# ecoFIT adaptor fittings for butt fusion





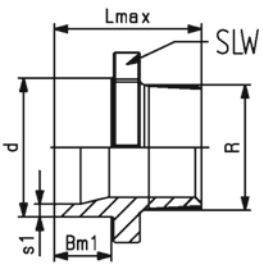

## ecoFIT Adaptor socket PE100
## d20-63mm / SDR11 / Female thread Rp

**Model:**

- With butt fusion spigot **SDR11** and BSP parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes

| d (mm) | Thread Type | Size (inch) | DN (mm) | PN (bar) | FM | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | s1 (mm) | SLW (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | Rp | ½ | 15 | 16 | IR | **753 910 266** | 0.018 | 49 | 23 | 1.9 | 32 |
| 25 | Rp | ¾ | 20 | 16 | IR | **753 910 267** | 0.022 | 51 | 23 | 2.3 | 36 |
| 32 | Rp | 1 | 25 | 16 | IR | **753 910 268** | 0.038 | 55 | 23 | 3.0 | 46 |
| 40 | Rp | 1 ¼ | 32 | 16 | IR | **753 910 269** | 0.068 | 57 | 23 | 3.7 | 55 |
| 50 | Rp | 1 ½ | 40 | 16 | IR | **753 910 270** | 0.083 | 60 | 23 | 4.6 | 64 |
| 63 | Rp | 2 | 50 | 16 | IR | **753 910 271** | 0.134 | 62 | 23 | 5.8 | 80 |





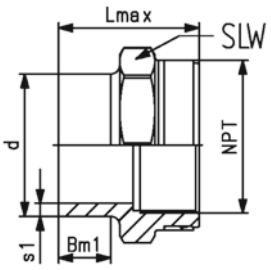

## ecoFIT Adaptor nipple PE100
## d20-63mm / SDR11 / Male thread R

**Model:**

- With butt fusion spigot SDR11 and tapered male thread
- Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes

| d (mm) | Thread Type | Size (inch) | DN (mm) | PN (bar) | FM | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | s1 (mm) | SLW (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | R | ½ | 15 | 16 | IR | **753 910 556** | 0.013 | 51 | 23 | 1.9 | 32 |
| 25 | R | ¾ | 20 | 16 | IR | **753 910 557** | 0.026 | 52 | 23 | 2.3 | 36 |
| 32 | R | 1 | 25 | 16 | IR | **753 910 558** | 0.028 | 55 | 23 | 3.0 | 46 |
| 40 | R | 1 ¼ | 32 | 16 | IR | **753 910 559** | 0.043 | 58 | 23 | 3.7 | 55 |
| 50 | R | 1 ½ | 40 | 16 | IR | **753 910 560** | 0.063 | 60 | 23 | 4.6 | 65 |
| 63 | R | 2 | 50 | 16 | IR | **753 910 561** | 0.104 | 67 | 26 | 5.8 | 80 |






### ecoFIT Adaptor socket PE100 NPT
### d20-63mm / SDR11

**Model:**

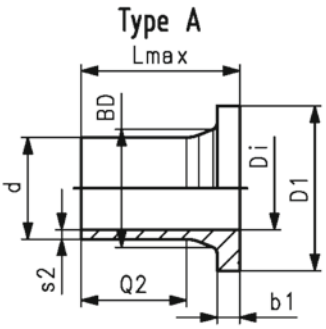
- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100
- NPT tapered female thread to ASTM F 1498
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes

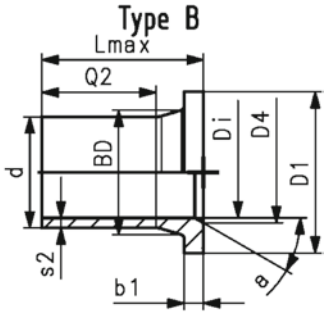
| d (mm) | Thread Type | Size (inch) | DN (mm) | PN (bar) | FM | Code | Weight (kg) | Lmax (mm) | Q1 (mm) | s1 (mm) | SLW (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | NPT | ½ | 15 | 16 | IR | **753 914 266** | 0.018 | 48 | 23 | 1.9 | 32 |
| 25 | NPT | ¾ | 20 | 16 | IR | **753 914 267** | 0.022 | 50 | 23 | 2.3 | 36 |
| 32 | NPT | 1 | 25 | 16 | IR | **753 914 268** | 0.038 | 54 | 23 | 2.9 | 46 |
| 40 | NPT | 1 ¼ | 32 | 16 | IR | **753 914 269** | 0.058 | 56 | 23 | 3.7 | 55 |
| 50 | NPT | 1 ½ | 40 | 16 | IR | **753 914 270** | 0.083 | 60 | 23 | 4.6 | 65 |
| 63 | NPT | 2 | 50 | 16 | IR | **753 914 271** | 0.134 | 62 | 23 | 5.8 | 80 |

# Flanged Connections

## Flange adaptors long end






### ELGEF Plus Flange adaptor PE100
### d20-800mm / SDR11 / Long version / Combined jointing face: flat and serrated

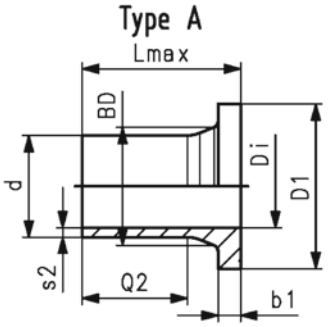
**Model:**

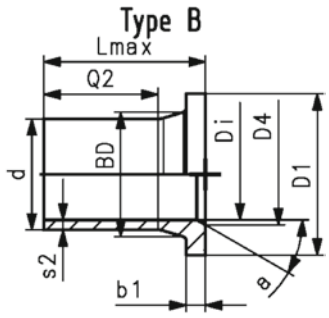
- For IR, butt and electrofusion welding according to DVS 2207
- Type A: without chamfer
- Type B: with chamfer
- Type 567/578 suitable for plastic butterfly valves up to DN300
- Type 565 for DN 300, the ecoFIT special flange adapter ** SDR11 is required
- Type 038/039/044/065 for metal butterfly valves up to DN250 suitable
- Type 038/039/044/065 for metal butterfly valves DN 300; the ecoFIT special flange adapter ** SDR11 is required
- For Butterfly Valves above DN 350, the ecoFIT adapters for BV SDR11 are required
- For third-party products, please check the Insertion depth of the disc dimension
- Profile seal: d20-d800 NBR, EPDM, FKM
- Flat gasket: d20-d315 EPDM, FKM
- Pressure rating: 16 bar water / 10 bar gas
- Please refer to the Online Tool: Perfect Flange Connection - GF Piping Systems (gfps.com)

* For electrofusion welding, according to DVS 2207 and EN 1555
** FM 1613 approved - PN 15
*** Machined

| | d (mm) | Di (mm) | Type | DN (mm) | Code | Weight (kg) | Lmax (mm) | D1 (mm) | D4 (mm) | Q2 (mm) | s2 (mm) | b1 (mm) | BD (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20 | 16 | A | 15 | **753 800 006** | 0.022 | 85.0 | 45 | | 41.0 | 1.9 | 7 | 27 |
| * | 20 | 16 | A | 15 | **753 800 031** | 0.060 | 85.0 | 45 | | 41.0 | 3.0 | 7 | 27 |
| | 25 | 20 | A | 20 | **753 800 007** | 0.037 | 90.5 | 58 | | 62.0 | 2.3 | 9 | 33 |
| * | 25 | 20 | A | 20 | **753 800 032** | 0.041 | 90.5 | 58 | | 62.0 | 3.0 | 9 | 33 |
| | 32 | 26 | A | 25 | **753 800 008** | 0.056 | 91.5 | 68 | | 61.0 | 3.0 | 10 | 40 |
| | 40 | 32 | A | 32 | **753 800 009** | 0.081 | 94.5 | 78 | | 61.5 | 3.7 | 11 | 50 |
| | 50 | 40 | A | 40 | **753 800 010** | 0.119 | 90.0 | 88 | | 62.0 | 4.6 | 12 | 61 |
| | 63 | 51 | A | 50 | **753 800 011** | 0.187 | 98.0 | 102 | | 69.0 | 5.8 | 14 | 75 |
| | 75 | 61 | B | 65 | **753 800 012** | 0.314 | 125.0 | 122 | 66 | 89.0 | 6.8 | 16 | 89 |
| ** | 90 | 73 | B | 80 | **753 800 013** | 0.471 | 140.0 | 138 | 78 | 103.0 | 8.2 | 17 | 105 |
| ** | 110 | 90 | B | 100 | **753 800 014** | 0.718 | 160.0 | 158 | 100 | 114.0 | 10.0 | 18 | 125 |
| ** | 125 | 102 | B | 100 | **753 800 015** | 0.883 | 170.0 | 158 | 114 | 125.0 | 11.4 | 25 | 132 |
| ** | 140 | 114 | B | 125 | **753 800 016** | 1.348 | 200.0 | 188 | 127 | 147.0 | 12.7 | 25 | 155 |
| ** | 160 | 130 | B | 150 | **753 800 017** | 1.718 | 200.0 | 212 | 151 | 147.0 | 14.6 | 25 | 175 |
| ** | 180 | 147 | B | 150 | **753 800 018** | 2.035 | 200.0 | 212 | 158 | 170.0 | 16.4 | 30 | 183 |
| ** | 200 | 163 | B | 200 | **753 800 019** | 2.899 | 200.0 | 268 | 203 | 128.0 | 18.2 | 32 | 232 |
| ** | 225 | 184 | B | 200 | **753 800 020** | 3.208 | 200.0 | 268 | 210 | 138.0 | 20.5 | 32 | 235 |

table continued on the next page




| | d (mm) | Di (mm) | Type | DN (mm) | Code | Weight (kg) | Lmax (mm) | D1 (mm) | D4 (mm) | Q2 (mm) | s2 (mm) | b1 (mm) | BD (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ** | 250 | 202 | B | 250 | **753 800 021** | 4.800 | 220.0 | 320 | 252 | 129.0 | 22.7 | 35 | 285 |
| ** | 280 | 229 | B | 250 | **753 800 022** | 4.925 | 231.0 | 320 | 265 | 150.0 | 25.4 | 35 | 291 |
| ** | 315 | 257 | B | 300 | **753 800 023** | 7.135 | 239.0 | 370 | 300 | 162.0 | 28.6 | 35 | 335 |
| ** | 355 | 284 | B | 350 | **753 800 224** | 10.400 | 267.0 | 430 | 342 | 170.0 | 32.0 | 40 | 373 |
| ** | 400 | 320 | B | 400 | **753 800 225** | 14.500 | 292.0 | 482 | 387 | 185.0 | 36.0 | 46 | 427 |
| ** | 450 | 360 | B | 500 | **753 800 226** | 23.700 | 330.0 | 585 | 400 | 205.0 | 41.0 | 60 | 514 |
| ** | 500 | 400 | B | 500 | **753 800 227** | 27.100 | 351.0 | 585 | 442 | 220.0 | 46.0 | 60 | 530 |
| | 560 | 458 | B | 600 | **753 800 228** | 39.260 | 370.0 | 685 | 490 | 240.0 | 50.9 | 60 | 616 |
| | 630 | 515 | B | 600 | **753 800 229** | 44.260 | 390.0 | 685 | 545 | 260.0 | 57.0 | 60 | 644 |
| *** | 710 | 581 | A | 700 | **753 800 030** | 56.400 | 400.0 | 800 | | 280.0 | 64.5 | 60 | 737 |
| *** | 800 | 652 | A | 800 | **753 800 033** | 72.700 | 400.0 | 905 | | 280.0 | 74.0 | 65 | 840 |

## Flange adaptors short end

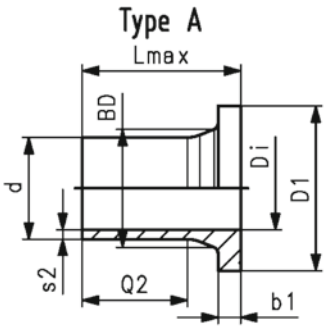


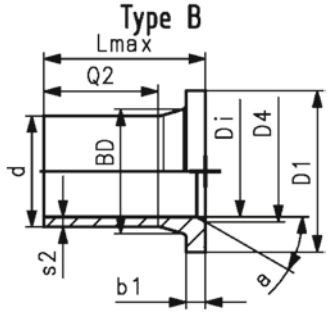
**ecoFIT Flange adaptor PE100**
**d20-800mm / SDR11 / short spigot / combined jointing face: flat and serrated**

**Model:**

- For IR, buttfusion welding according to DVS 2207
- Type A: without chamfer
- Type B: with chamfer
- Type 567/578 suitable for plastic butterfly valves up to DN300
- Type 565 for DN 300, the ecoFIT special flange adapter ** SDR11 is required
- Type 038/039/044/065 for metal butterfly valves up to DN250 suitable
- Type 038/039/044/065 for metal butterfly valves DN 300; the ecoFIT special flange adapter ** SDR11 is required
- For Butterfly Valves above DN 350, the ecoFIT adapters for BV SDR11 are required
- For third-party products, please check the Insertion depth of the disc dimension
- Profile seal: d20-d630 NBR, EPDM, FKM
- Flat gasket: d20-d315 EPDM, FKM
- Pressure rating: 10 bar gas / 16 bar water
- Please refer to the Online Tool: Perfect Flange Connection - GF Piping Systems (gfps.com)

* Machined
** Special Flange Adaptor DN 300 for Butterfly Valve 565/038/039/044/065

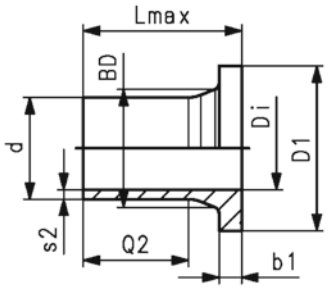



| | d (mm) | Di (mm) | Type | DN (mm) | PN (bar) | Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| | 20 | 16 | A | 15 | 16 | **753 798 306** | 0.016 |
| | 25 | 20 | A | 20 | 16 | **753 798 307** | 0.034 |
| | 32 | 26 | A | 25 | 16 | **753 798 308** | 0.046 |
| | 40 | 32 | A | 32 | 16 | **753 798 309** | 0.067 |
| | 50 | 40 | A | 40 | 16 | **753 798 310** | 0.098 |
| | 63 | 49 | A | 50 | 16 | **753 798 311** | 0.157 |
| | 75 | 58 | B | 65 | 16 | **753 798 312** | 0.258 |
| | 90 | 70 | B | 80 | 16 | **753 798 313** | 0.347 |
| | 110 | 87 | B | 100 | 16 | **753 798 314** | 0.471 |
| | 125 | 99 | B | 100 | 16 | **753 798 315** | 0.517 |
| | 140 | 111 | B | 125 | 16 | **753 798 316** | 0.780 |
| | 160 | 127 | B | 150 | 16 | **753 798 317** | 0.973 |
| | 180 | 148 | B | 150 | 16 | **753 798 318** | 1.077 |
| | 200 | 174 | B | 200 | 16 | **753 798 319** | 1.734 |
| | 225 | 196 | B | 200 | 16 | **753 798 320** | 1.772 |
| | 250 | 203 | B | 250 | 16 | **753 798 321** | 2.871 |

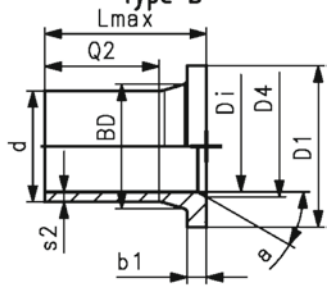
table continued on the next page

Type A




| | d (mm) | Di (mm) | Type | DN (mm) | PN (bar) | Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| | 280 | 228 | B | 250 | 16 | **753 798 322** | 3.760 |
| | 315 | 256 | B | 300 | 16 | **753 798 323** | 4.925 |
| ** | 315 | 256 | B | 300 | 16 | **753 798 303** | 4.925 |
| | 355 | 284 | B | 350 | 16 | **753 798 324** | 7.000 |
| | 400 | 320 | B | 400 | 16 | **753 798 325** | 9.500 |
| | 450 | 360 | B | 500 | 16 | **753 798 326** | 18.200 |
| | 500 | 400 | B | 500 | 16 | **753 798 327** | 18.700 |
| | 560 | 458 | B | 600 | 16 | **753 798 833** | 19.354 |
| * | 630 | 516 | B | 600 | 16 | **753 798 834** | 17.166 |

Type B




| | d (mm) | Lmax (mm) | D1 (mm) | D4 (mm) | Q2 (mm) | s2 (mm) | b1 (mm) | BD (mm) | a |
|---|---|---|---|---|---|---|---|---|---|
| | 20 | 50 | 45 | | 29 | 1.9 | 7 | 26 | |
| | 25 | 52 | 58 | | 27 | 2.3 | 9 | 32 | |
| | 32 | 54 | 68 | | 28 | 2.9 | 10 | 40 | |
| | 40 | 55 | 78 | | 25 | 3.7 | 11 | 49 | |
| | 50 | 62 | 88 | | 32 | 4.6 | 12 | 60 | |
| | 63 | 68 | 102 | | 38 | 5.8 | 14 | 75 | |
| | 75 | 80 | 122 | 66 | 43 | 6.8 | 16 | 89 | 30 |
| | 90 | 80 | 138 | 78 | 42 | 8.2 | 17 | 105 | 30 |
| | 110 | 80 | 158 | 100 | 41 | 10.0 | 18 | 125 | 30 |
| | 125 | 82 | 158 | 114 | 35 | 11.4 | 25 | 132 | 25 |
| | 140 | 89 | 188 | 127 | 42 | 12.7 | 25 | 155 | 27 |
| | 160 | 92 | 212 | 151 | 40 | 14.6 | 25 | 175 | 30 |
| | 180 | 92 | 212 | 154 | 40 | 16.4 | 30 | 180 | 30 |
| | 200 | 100 | 268 | 203 | 35 | 18.2 | 32 | 232 | 30 |
| | 225 | 100 | 268 | 210 | 35 | 20.5 | 32 | 235 | 30 |
| | 250 | 120 | 320 | 252 | 45 | 22.7 | 35 | 285 | 25 |
| | 280 | 120 | 320 | 265 | 45 | 25.4 | 37 | 291 | 30 |
| | 315 | 150 | 370 | 290 | 50 | 28.6 | 50 | 335 | 22 |
| ** | 315 | 150 | 370 | 300 | 50 | 28.6 | 50 | 335 | 30 |
| | 355 | 162 | 430 | 342 | 70 | 32.2 | 40 | 373 | 45 |
| | 400 | 172 | 482 | 387 | 70 | 36.3 | 46 | 427 | 45 |
| | 450 | 225 | 585 | 400 | 105 | 40.9 | 60 | 514 | 15 |
| | 500 | 231 | 585 | 442 | 105 | 45.4 | 60 | 530 | 15 |
| | 560 | 141 | 684 | 490 | 20 | 50.8 | 60 | 615 | 30 |
| * | 630 | 135 | 684 | 545 | 40 | 57.2 | 60 | 642 | 30 |



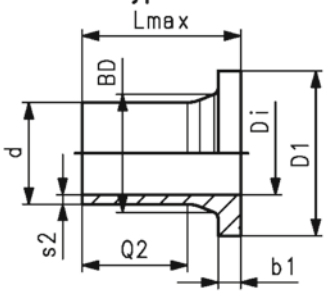
## ecoFIT Flange adaptor PE100
## d50-1000mm / SDR17/17.6 / short spigot / combined jointing face: flat and serrated

**Model:**

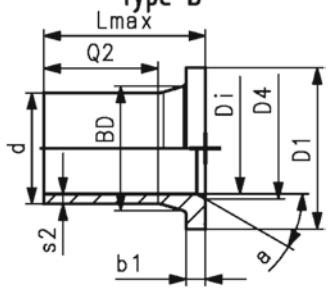
- For IR, buttfusion welding according to DVS 2207
- Type A: without chamfer
- Type B: with chamfer
- Type 567/578 suitable for plastic butterfly valves up to DN300
- Type 565 for DN 300, the ecoFIT special flange adapter ** SDR17 is required
- Type 038/039/044/065 for metal butterfly valves up to DN250 suitable
- Type 038/039/044/065 for metal butterfly valves DN 300; the ecoFIT special flange adapter ** SDR17 is required
- For Butterfly Valves above DN 450, the ecoFIT adapters for BV SDR17 are required
- For third-party products, please check the Insertion depth of the disc dimension
- Profile seal d50-d1000: NBR, EPDM, FKM
- Flat gasket d50-d315: EPDM, FKM
- Pressure rating: 5 bar gas / 10 bar water
- Please refer to the Online Tool: Perfect Flange Connection - GF Piping Systems (gfps.com)

* Machined
** Special Flange Adaptor DN 300 for Butterfly Valve 565/038/039/044/065

Type A



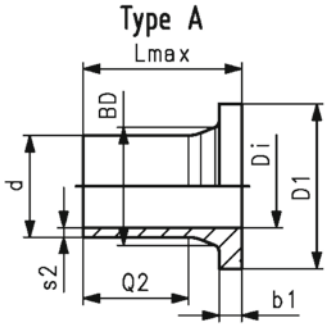

Type B

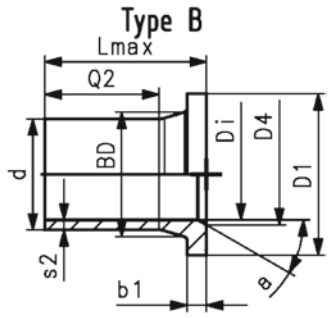



| | d (mm) | Di (mm) | Type | DN (mm) | PN (bar) | Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| | 50 | 44 | A | 40 | 10 | **753 798 210** | 0.093 |
| | 63 | 55 | A | 50 | 10 | **753 798 211** | 0.118 |
| | 75 | 63 | A | 65 | 10 | **753 798 212** | 0.220 |
| | 90 | 76 | A | 80 | 10 | **753 798 213** | 0.291 |
| | 110 | 94 | A | 100 | 10 | **753 798 214** | 0.389 |
| | 125 | 110 | B | 100 | 10 | **753 798 215** | 0.421 |
| | 140 | 123 | B | 125 | 10 | **753 798 216** | 0.648 |
| | 160 | 138 | B | 150 | 10 | **753 798 217** | 0.703 |
| | 180 | 158 | A | 150 | 10 | **753 798 218** | 0.739 |
| | 200 | 174 | B | 200 | 10 | **753 798 219** | 1.331 |
| | 225 | 196 | B | 200 | 10 | **753 798 220** | 1.304 |
| | 250 | 221 | B | 250 | 10 | **753 798 221** | 2.272 |
| | 280 | 247 | B | 250 | 10 | **753 798 222** | 2.154 |
| | 315 | 278 | B | 300 | 10 | **753 798 223** | 3.819 |
| ** | 315 | 278 | B | 300 | 10 | **753 798 203** | 3.819 |
| | 355 | 310 | B | 350 | 10 | **753 798 224** | 4.800 |
| | 400 | 350 | B | 400 | 10 | **753 798 225** | 6.400 |
| | 450 | 400 | B | 500 | 10 | **753 798 226** | 12.700 |
| | 500 | 442 | A | 500 | 10 | **753 798 227** | 13.000 |
| | 560 | 493 | A | 600 | 10 | **753 798 858** | 14.875 |
| | 630 | 555 | A | 600 | 10 | **753 798 859** | 12.515 |

| | d (mm) | Lmax (mm) | D1 (mm) | D4 (mm) | Q2 (mm) | s2 (mm) | b1 (mm) | BD (mm) | a |
|---|---|---|---|---|---|---|---|---|---|
| | 50 | 62 | 88 | | 32 | 2.9 | 12 | 60 | |
| | 63 | 68 | 102 | | 38 | 3.8 | 14 | 75 | |
| | 75 | 80 | 122 | | 43 | 4.5 | 16 | 89 | |
| | 90 | 80 | 138 | | 42 | 5.4 | 17 | 105 | |
| | 110 | 80 | 158 | | 42 | 6.6 | 18 | 125 | |
| | 125 | 82 | 158 | 114 | 35 | 7.4 | 25 | 132 | 25 |
| | 140 | 89 | 188 | 127 | 39 | 8.3 | 25 | 155 | 27 |
| | 160 | 92 | 212 | 158 | 47 | 9.5 | 18 | 175 | 30 |
| | 180 | 92 | 212 | | 45 | 10.7 | 20 | 180 | |
| | 200 | 100 | 268 | 203 | 42 | 11.9 | 24 | 232 | 30 |
| | 225 | 100 | 268 | 210 | 42 | 13.4 | 24 | 235 | 30 |
| | 250 | 120 | 320 | 252 | 45 | 14.8 | 25 | 285 | 25 |
| | 280 | 120 | 320 | 265 | 45 | 16.6 | 35 | 291 | 30 |
| | 315 | 150 | 370 | 290 | 50 | 18.7 | 50 | 335 | 21 |
| ** | 315 | 150 | 370 | 300 | 50 | 18.7 | 50 | 335 | 30 |
| | 355 | 155 | 430 | 351 | 70 | 21.1 | 33 | 373 | 21 |
| | 400 | 162 | 482 | 395 | 70 | 23.7 | 36 | 427 | 21 |

table continued on the next page




| d (mm) | Lmax (mm) | D1 (mm) | D4 (mm) | Q2 (mm) | s2 (mm) | b1 (mm) | BD (mm) | a |
|---|---|---|---|---|---|---|---|---|
| 450 | 211 | 585 | 400 | 105 | 26.7 | 46 | 514 | 4 |
| 500 | 217 | 585 | 446 | 105 | 29.7 | 46 | 530 | 2 |
| 560 | 185 | 685 | | 65 | 33.2 | 50 | 615 | |
| 630 | 185 | 685 | | 65 | 37.4 | 50 | 642 | |



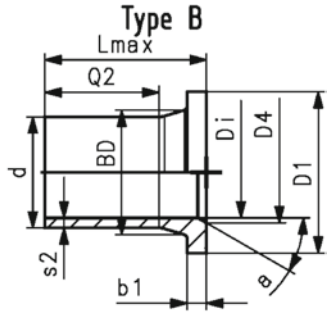
## ecoFIT adaptor for butterfly valves PE100 d355-800mm / SDR11 / jointing face: flat and metric

**Model:**

- For buttfusion welding according to DVS 2207
- Type B: with chamfer
- Suitable for plastic butterfly valves type **567/578/565**
- Suitable for metal butterfly valves type **038/039/044/065**
- Profile seal d355-d800: NBR, EPDM, FKM
- Pressure rating: 16 bar d355-d500
- Pressure rating: 10 bar d500-d800

**Note:**

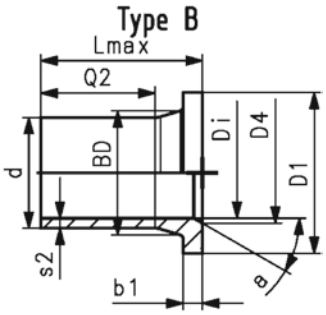
*machined




| d (mm) | Di (mm) | Type | DN (mm) | PN (bar) | Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 355 | 284 | B | 350 | 16 | **753 798 924** | 8.400 |
| 400 | 320 | B | 400 | 16 | **753 798 925** | 11.000 |
| 450 | 360 | B | 450 | 16 | **753 798 926** | 18.800 |
| 500 | 400 | B | 500 | 16 | **753 798 927** | 19.900 |
| 560 | 458 | B | 600 | 10 | **753 798 728** | 29.300 |
| 630 | 515 | B | 600 | 10 | **753 798 729** | 23.100 |

| d (mm) | Lmax (mm) | D1 (mm) | D4 (mm) | Q2 (mm) | s2 (mm) | b1 (mm) | BD (mm) | a |
|---|---|---|---|---|---|---|---|---|
| 355 | 187 | 430 | 350 | 70 | 33.9 | 65 | 373 | 25 |
| 400 | 196 | 482 | 400 | 70 | 38.2 | 70 | 427 | 25 |
| 450 | 272 | 533 | 450 | 105 | 43.0 | 107 | 467 | 23 |
| 500 | 261 | 585 | 498 | 105 | 47.8 | 90 | 530 | 25 |
| 560 | 282 | 685 | 610 | 60 | 50.8 | 147 | 615 | 21 |
| 630 | 210 | 685 | 610 | 60 | 57.2 | 132 | 642 | 21 |






## ecoFIT adaptor for butterfly valves PE100
## d450-1200mm / SDR17/17.6 / jointing face: flat and metric

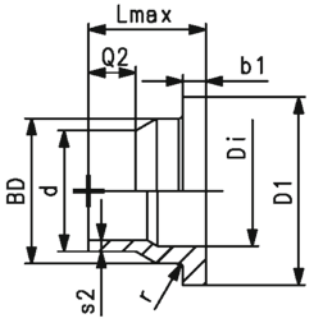
**Model:**

- For buttfusion welding according to DVS 2207
- Type B: with chamfer
- Suitable for plastic butterfly valves type **567/578/565**
- Suitable for metal butterfly valves type **038/039/044/065**
- Pressure rating: 10 bar
- Machined

| d (mm) | Di (mm) | Type | DN (mm) | PN (bar) | Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 450 | 397 | B | 450 | 10 | **753 798 951** | 10.700 |
| 500 | 440 | B | 500 | 10 | **753 798 952** | 12.100 |
| 560 | 493 | B | 600 | 10 | **753 798 753** | 17.300 |
| 630 | 555 | B | 600 | 10 | **753 798 754** | 12.200 |

| d (mm) | Lmax (mm) | D1 (mm) | D4 (mm) | Q2 (mm) | s2 (mm) | b1 (mm) | BD (mm) | a |
|---|---|---|---|---|---|---|---|---|
| 450 | 224 | 533 | 451 | 105 | 27.5 | 59 | 467 | 23 |
| 500 | 217 | 585 | 498 | 105 | 30.5 | 46 | 530 | 25 |
| 560 | 227 | 685 | 610 | 60 | 33.2 | 92 | 615 | 21 |
| 630 | 149 | 685 | 610 | 60 | 37.4 | 71 | 642 | 21 |






## ecoFIT outlet flange adaptor PE100
## d40-315mm / SDR11

**Model:**

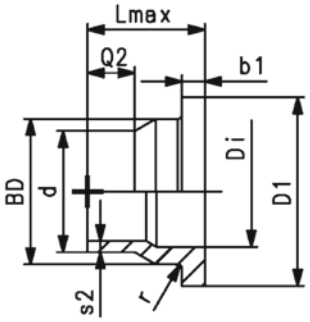
- Suitable for wafer check valves Type 369
- Conventional butt-welding according to DVS 2207

**Attention:**

- In conjunction with Outlet flange adaptors, **flange rings for socket systems** must be used.

| d (mm) | Di (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | D1 (mm) | Q2 (mm) | s2 (mm) | r (mm) | b1 (mm) | BD (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | 37 | 32 | 16 | **733 808 034** | 0.073 | 64 | 80 | 30 | 3.7 | 3 | 11 | 50 |
| 50 | 43 | 40 | 16 | **733 808 035** | 0.104 | 67 | 90 | 30 | 4.6 | 3 | 12 | 61 |
| 63 | 54 | 50 | 16 | **733 808 036** | 0.172 | 74 | 105 | 30 | 5.8 | 4 | 14 | 76 |
| 75 | 70 | 65 | 16 | **733 808 037** | 0.242 | 78 | 125 | 30 | 6.8 | 4 | 16 | 90 |
| 90 | 82 | 80 | 16 | **733 808 038** | 0.348 | 87 | 140 | 35 | 8.2 | 4 | 17 | 108 |
| 110 | 105 | 100 | 16 | **733 808 039** | 0.508 | 102 | 160 | 41 | 10.0 | 4 | 18 | 131 |
| 140 | 130 | 125 | 16 | **733 808 041** | 0.976 | 124 | 190 | 47 | 12.7 | 4 | 25 | 165 |
| 160 | 158 | 150 | 16 | **733 808 042** | 1.337 | 149 | 215 | 52 | 14.6 | 4 | 25 | 188 |
| 225 | 206 | 200 | 16 | **733 808 045** | 2.814 | 180 | 270 | 55 | 20.5 | 4 | 32 | 248 |
| 280 | 259 | 250 | 16 | **733 808 047** | 4.374 | 240 | 325 | 63 | 25.4 | 4 | 35 | 308 |
| 315 | 308 | 300 | 16 | **733 808 048** | 4.960 | 272 | 375 | 66 | 28.6 | 4 | 35 | 346 |






**ecoFIT outlet flange adaptor PE100**
**d40-315mm / SDR17/17.6**

**Model:**

- Conventional butt-welding according to DVS 2207
- Suitable for wafer check valves Type 369

**Attention:**

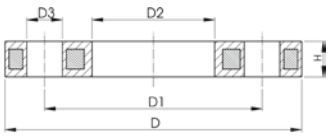
- In conjunction with Outlet flange adaptors, **flange rings for socket systems** must be used.

| d (mm) | Di (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | D1 (mm) | Q2 (mm) | s2 (mm) | r (mm) | b1 (mm) | BD (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | 37 | 32 | 10 | **733 808 009** | 0.060 | 64 | 80 | 30 | 2.3 | 3 | 11 | 50 |
| 50 | 43 | 40 | 10 | **733 808 010** | 0.067 | 67 | 90 | 30 | 2.9 | 3 | 12 | 61 |
| 63 | 54 | 50 | 10 | **733 808 011** | 0.159 | 74 | 105 | 30 | 3.6 | 4 | 14 | 76 |
| 75 | 70 | 65 | 10 | **733 808 012** | 0.219 | 78 | 125 | 30 | 4.3 | 4 | 16 | 90 |
| 90 | 82 | 80 | 10 | **733 808 013** | 0.314 | 87 | 140 | 35 | 5.1 | 4 | 17 | 108 |
| 110 | 105 | 100 | 10 | **733 808 014** | 0.465 | 102 | 160 | 41 | 6.3 | 4 | 18 | 131 |
| 140 | 130 | 125 | 10 | **733 808 016** | 0.862 | 124 | 190 | 47 | 8.0 | 4 | 18 | 165 |
| 160 | 158 | 150 | 10 | **733 808 017** | 1.176 | 149 | 215 | 52 | 9.1 | 4 | 18 | 188 |
| 225 | 206 | 200 | 10 | **733 808 020** | 2.484 | 180 | 270 | 55 | 12.8 | 4 | 24 | 248 |
| 280 | 259 | 250 | 10 | **733 808 022** | 2.230 | 240 | 325 | 63 | 15.9 | 4 | 25 | 308 |
| 315 | 308 | 300 | 10 | **733 808 023** | 2.450 | 272 | 375 | 66 | 17.9 | 4 | 25 | 346 |

## Flanges for butt fusion systems








## Flanges PP-Steel

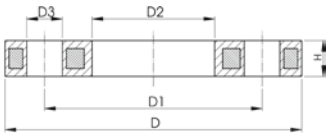
**Model:**

- Material: PP (30% glass-fibre reinforced) with steel ring
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D4024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes
* FM 1613 approved - 15 bar
** Profiled loose flange

| | d (mm) | DN (mm) | D (mm) | PN (bar) | Standard | Bolt / circle | Design | Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|
| | 20 | 15 | 95 | 16 | Metric | PN10 | Butt/Socket | **727 700 206** | 0.216 |
| | 20 | 15 | 95 | 16 | ASME | class 150 | Butt/Socket | **727 701 206** | 0.213 |
| | 25 | 20 | 105 | 16 | Metric | PN10 | Butt/Socket | **727 700 207** | 0.279 |
| | 25 | 20 | 105 | 16 | ASME | class 150 | Butt/Socket | **727 701 207** | 0.260 |
| | 32 | 25 | 115 | 16 | Metric | PN10 | Butt/Socket | **727 700 208** | 0.429 |
| | 32 | 25 | 115 | 16 | ASME | class 150 | Butt/Socket | **727 701 208** | 0.416 |
| | 40 | 32 | 140 | 16 | Metric | PN10 | Butt/Socket | **727 700 209** | 0.621 |
| | 40 | 32 | 140 | 16 | ASME | class 150 | Butt/Socket | **727 701 209** | 0.730 |
| | 50 | 40 | 150 | 16 | Metric | PN10 | Butt/Socket | **727 700 210** | 0.722 |
| | 50 | 40 | 150 | 16 | ASME | class 150 | Butt/Socket | **727 701 210** | 0.809 |
| | 63 | 50 | 165 | 16 | Metric | PN10 | Butt/Socket | **727 700 211** | 0.900 |
| | 63 | 50 | 165 | 16 | ASME | class 150 | Butt/Socket | **727 701 211** | 0.866 |
| | 75 | 65 | 185 | 16 | Metric | PN10 | Butt/Socket | **727 700 212** | 1.110 |
| | 75 | 65 | 185 | 16 | ASME | class 150 | Butt/Socket | **727 701 212** | 1.117 |
| * | 90 | 80 | 200 | 16 | Metric | PN10 | Butt | **724 700 313** | 1.390 |
| | 90 | 80 | 200 | 16 | Metric | PN10 | Socket | **727 700 213** | 1.369 |
| | 90 | 80 | 200 | 16 | Metric | PN10 | Butt | **727 700 313** | 1.390 |
| | 90 | 80 | 200 | 16 | ASME | class 150 | Socket | **727 701 213** | 1.492 |
| | 90 | 80 | 200 | 16 | ASME | class 150 | Butt | **727 701 313** | 1.499 |
| * | 110 | 100 | 223 | 16 | Metric | PN10 | Butt | **724 700 314** | 1.407 |
| | 110 | 100 | 220 | 16 | Metric | PN10 | Socket | **727 700 214** | 1.522 |
| | 110 | 100 | 220 | 16 | Metric | PN10 | Butt | **727 700 314** | 1.407 |
| | 110 | 100 | 229 | 16 | ASME | class 150 | Socket | **727 701 214** | 1.695 |
| | 110 | 100 | 229 | 16 | ASME | class 150 | Butt | **727 701 314** | 1.739 |
| * | 125 | 100 | 223 | 16 | Metric | PN10 | Butt | **724 700 315** | 1.408 |
| | 125 | 100 | 220 | 16 | Metric | PN10 | Butt | **727 700 315** | 1.408 |
| | 125 | 125 | 250 | 16 | Metric | PN10 | Socket | **727 700 815** | 2.475 |
| * | 140 | 125 | 250 | 16 | Metric | PN10 | Butt | **724 700 316** | 2.318 |
| | 140 | 125 | 250 | 16 | Metric | PN10 | Butt | **727 700 716** | 2.318 |
| | 140 | 125 | 250 | 16 | Metric | PN10 | Socket | **727 700 816** | 2.033 |
| * | 160 | 150 | 285 | 16 | Metric | PN10 | Butt | **724 700 317** | 3.491 |
| | 160 | 150 | 285 | 16 | Metric/ASME | PN10/ class 150 | Butt | **727 700 717** | 3.491 |
| | 160 | 150 | 285 | 16 | Metric/ASME | PN10/ class 150 | Socket | **727 700 817** | 3.167 |
| * | 180 | 150 | 285 | 16 | Metric | PN10 | Butt | **724 700 318** | 3.108 |
| | 180 | 150 | 285 | 16 | Metric/ASME | PN10/ Class 150 | Butt | **727 700 718** | 3.108 |
| *, ** | 200 | 200 | 344 | 16 | Metric | PN16 | Butt | **724 700 319** | 3.549 |
| | 200 | 200 | 340 | 16 | Metric/ASME | PN10/ class 150 | Butt | **727 700 719** | 5.600 |
| | 200 | 200 | 340 | 16 | Metric/ASME | PN10/ class 150 | Socket | **727 700 819** | 6.143 |
| *, ** | 225 | 200 | 344 | 16 | Metric | PN16 | Butt | **724 700 320** | 3.380 |
| | 225 | 200 | 340 | 16 | Metric/ASME | PN10/ class 150 | Butt | **727 700 720** | 5.533 |
| | 225 | 200 | 340 | 16 | Metric/ASME | PN10/ class 150 | Socket | **727 700 820** | 4.448 |
| *, ** | 250 | 250 | 410 | 16 | Metric | PN16 | Butt | **724 700 321** | 6.390 |
| | 250 | 225 | 395 | 16 | Metric | PN10 | Socket | **727 700 031** | 8.340 |
| | 250 | 250 | 406 | 10 | ASME | class 150 | Butt | **727 701 321** | 6.000 |
| | 250 | 250 | 395 | 16 | Metric | PN10 | Butt | **727 700 721** | 6.632 |
| | 250 | 250 | 395 | 16 | Metric | PN10 | Socket | **727 700 821** | 7.179 |
| *, ** | 280 | 250 | 410 | 16 | Metric | PN16 | Butt | **724 700 322** | 6.310 |
| | 280 | 250 | 395 | 16 | Metric | PN10 | Butt | **727 700 722** | 6.573 |

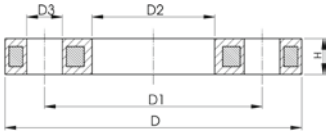
table continued on the next page




| | d (mm) | DN (mm) | D (mm) | PN (bar) | Standard | Bolt / circle | Design | Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|
| | 280 | 250 | 395 | 16 | Metric | PN10 | Socket | **727 700 822** | 5.547 |
| *, ** | 315 | 300 | 455 | 16 | Metric | PN16 | Butt | **724 700 323** | 9.740 |
| | 315 | 300 | 445 | 16 | Metric | PN10 | Butt | **727 700 723** | 7.903 |
| | 315 | 300 | 445 | 16 | Metric | PN10 | Socket | **727 700 823** | 6.980 |
| | 315 | 300 | 483 | 10 | ASME | class 150 | Butt | **727 701 322** | 11.800 |
| *, ** | 355 | 350 | 521 | 16 | Metric | PN16 | Butt | **724 700 324** | 15.203 |
| | 355 | 350 | 515 | 16 | Metric | PN10 | Butt | **727 700 724** | 14.587 |
| | 355 | 350 | 515 | 16 | Metric | PN10 | Socket | **727 700 824** | 12.465 |
| | 355 | 350 | 540 | 10 | ASME | class 150 | Butt | **727 701 323** | 17.900 |
| *, ** | 400 | 400 | 582 | 16 | Metric | PN16 | Butt | **724 700 325** | 20.600 |
| | 400 | 400 | 574 | 16 | Metric | PN10 | Butt | **727 700 725** | 20.034 |
| | 400 | 400 | 574 | 16 | Metric | PN10 | Socket | **727 700 825** | 17.607 |
| | 400 | 400 | 597 | 10 | ASME | class 150 | Butt | **727 701 324** | 24.500 |
| *, ** | 450 | 500 | 685 | 10 | Metric | PN10 | Butt | **724 700 426** | 25.600 |
| *, ** | 500 | 500 | 685 | 10 | Metric | PN10 | Butt | **724 700 427** | 21.061 |
| ** | 560 | 600 | 796 | 10 | Metric | PN10 | Butt | **724 700 428** | 35.000 |
| ** | 630 | 600 | 800 | 10 | Metric | PN10 | Butt | **724 700 429** | 28.500 |
| ** | 710 | 700 | 912 | 6 | Metric | PN10 | Butt | **724 700 430** | 25.500 |
| ** | 800 | 800 | 1026 | 6 | Metric | PN10 | Butt | **724 700 431** | 39.300 |
| ** | 900 | 900 | 1129 | 6 | Metric | PN10 | Butt | **724 700 432** | 48.500 |
| | 450 | 500 | 712 | 10 | ASME | class 150 | Butt | **727 701 325** | 33.600 |

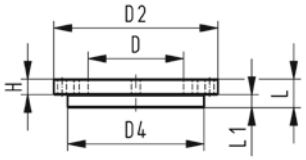
| | d (mm) | D1 (mm) | D2 (mm) | D3 (mm) | H max. (mm) | AL | SC |
|---|---|---|---|---|---|---|---|
| | 20 | 65 | 28 | 14 | 12 | 4 | M12 |
| | 20 | 60 | 28 | 16 | 12 | 4 | M12 |
| | 25 | 75 | 34 | 14 | 12 | 4 | M12 |
| | 25 | 70 | 34 | 16 | 12 | 4 | M12 |
| | 32 | 85 | 42 | 14 | 16 | 4 | M12 |
| | 32 | 79 | 42 | 16 | 16 | 4 | M12 |
| | 40 | 100 | 51 | 18 | 16 | 4 | M16 |
| | 40 | 89 | 51 | 16 | 16 | 4 | M16 |
| | 50 | 110 | 62 | 18 | 20 | 4 | M16 |
| | 50 | 98 | 62 | 16 | 18 | 4 | M16 |
| | 63 | 125 | 78 | 18 | 20 | 4 | M16 |
| | 63 | 121 | 78 | 19 | 18 | 4 | M16 |
| | 75 | 145 | 92 | 18 | 20 | 4 | M16 |
| | 75 | 140 | 92 | 19 | 18 | 4 | M16 |
| * | 90 | 160 | 108 | 18 | 20 | 8 | M16 |
| | 90 | 160 | 110 | 18 | 20 | 8 | M16 |
| | 90 | 160 | 108 | 18 | 20 | 8 | M16 |
| | 90 | 152 | 110 | 19 | 20 | 4 | M16 |
| | 90 | 152 | 108 | 19 | 20 | 4 | M16 |
| * | 110 | 180 | 128 | 18 | 20 | 8 | M16 |
| | 110 | 180 | 133 | 18 | 20 | 8 | M16 |
| | 110 | 180 | 128 | 18 | 20 | 8 | M16 |
| | 110 | 190 | 133 | 19 | 20 | 8 | M16 |
| | 110 | 190 | 128 | 19 | 20 | 8 | M16 |
| * | 125 | 180 | 135 | 18 | 20 | 8 | M16 |
| | 125 | 180 | 135 | 18 | 20 | 8 | M16 |
| | 125 | 210 | 150 | 18 | 26 | 8 | M16 |
| * | 140 | 210 | 158 | 18 | 24 | 8 | M16 |
| | 140 | 210 | 158 | 18 | 24 | 8 | M16 |
| | 140 | 210 | 167 | 18 | 26 | 8 | M16 |
| * | 160 | 240 | 178 | 22 | 28 | 8 | M20 |
| | 160 | 240 | 178 | 22 | 24 | 8 | M20 |
| | 160 | 240 | 190 | 22 | 26 | 8 | M20 |
| * | 180 | 240 | 188 | 22 | 28 | 8 | M20 |
| | 180 | 240 | 188 | 22 | 24 | 8 | M20 |
| *, ** | 200 | 295 | 235 | 22 | 31 | 12 | M20 |
| | 200 | 295 | 235 | 22 | 27 | 8 | M20 |
| | 200 | 295 | 226 | 22 | 29 | 8 | M20 |
| *, ** | 225 | 295 | 238 | 22 | 31 | 12 | M20 |

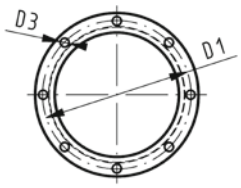
table continued on the next page




| | d (mm) | D1 (mm) | D2 (mm) | D3 (mm) | H max. (mm) | AL | SC |
|---|---|---|---|---|---|---|---|
| | 225 | 297 | 238 | 22 | 27 | 8 | M20 |
| | 225 | 297 | 250 | 22 | 29 | 8 | M20 |
| *, ** | 250 | 355 | 288 | 26 | 35 | 12 | M24 |
| | 250 | 325 | 277 | 22 | 32 | 8 | M20 |
| | 250 | 362 | 293 | 25 | 30 | 12 | M24 |
| | 250 | 350 | 288 | 22 | 30 | 12 | M20 |
| | 250 | 350 | 277 | 22 | 32 | 12 | M20 |
| *, ** | 280 | 355 | 294 | 26 | 36 | 12 | M24 |
| | 280 | 350 | 294 | 22 | 30 | 12 | M20 |
| | 280 | 350 | 310 | 22 | 32 | 12 | M20 |
| *, ** | 315 | 410 | 338 | 26 | 43 | 12 | M24 |
| | 315 | 400 | 338 | 22 | 34 | 12 | M20 |
| | 315 | 400 | 348 | 22 | 36 | 12 | M20 |
| | 315 | 432 | 338 | 25 | 34 | 12 | M24 |
| *, ** | 355 | 470 | 376 | 26 | 55 | 16 | M24 |
| | 355 | 460 | 376 | 23 | 40 | 16 | M20 |
| | 355 | 460 | 388 | 23 | 42 | 16 | M20 |
| | 355 | 476 | 376 | 29 | 42 | 12 | M27 |
| *, ** | 400 | 525 | 430 | 30 | 56 | 16 | M27 |
| | 400 | 515 | 430 | 26 | 40 | 16 | M24 |
| | 400 | 515 | 442 | 26 | 42 | 16 | M24 |
| | 400 | 539 | 429 | 29 | 44 | 16 | M27 |
| *, ** | 450 | 620 | 517 | 26 | 56 | 20 | M24 |
| *, ** | 500 | 620 | 533 | 26 | 56 | 20 | M24 |
| ** | 560 | 725 | 618 | 30 | 68 | 20 | M27 |
| ** | 630 | 725 | 645 | 30 | 68 | 20 | M27 |
| ** | 710 | 840 | 740 | 30 | 49 | 24 | M27 |
| ** | 800 | 950 | 843 | 33 | 58 | 24 | M30 |
| ** | 900 | 1050 | 947 | 33 | 62 | 28 | M30 |
| | 450 | 635 | 540 | 32 | 53 | 20 | M30 |






## Blanking flange set PE100
## Combined jointing face flat and serrated metric

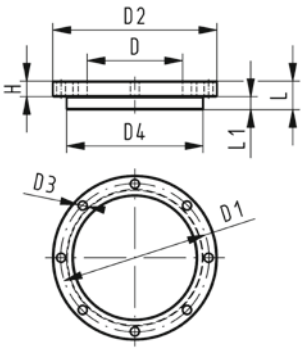
**Model:**

- d63 - d315: backing flange PP-V with end blank PE
- d355 - d630: backing flange PP/Steel with end blank PE
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- **Bolt circle PN 10**

AL: number of holes
L: length of the End Blank

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | D (mm) | D1 (mm) | D2 (mm) | D3 (mm) | D4 (mm) | L (mm) | L1 (mm) | H (mm) | AL | SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 16 | **753 700 611** | 0.560 | 75 | 125 | 165 | 18 | 102 | 30 | 14 | 24 | 4 | M16 |
| 75 | 65 | 16 | **753 700 612** | 0.910 | 89 | 145 | 185 | 18 | 122 | 30 | 16 | 26 | 4 | M16 |
| 90 | 80 | 16 | **753 700 613** | 0.921 | 105 | 160 | 200 | 18 | 138 | 30 | 17 | 27 | 8 | M16 |
| 110 | 100 | 16 | **753 700 614** | 1.158 | 125 | 180 | 220 | 18 | 158 | 30 | 18 | 28 | 8 | M16 |
| 125 | 100 | 16 | **753 700 615** | 1.678 | 132 | 180 | 220 | 18 | 158 | 35 | 25 | 28 | 8 | M16 |
| 140 | 125 | 16 | **753 700 616** | 1.913 | 155 | 210 | 250 | 18 | 188 | 40 | 25 | 30 | 8 | M16 |
| 160 | 150 | 16 | **753 700 617** | 2.373 | 175 | 240 | 285 | 22 | 212 | 40 | 25 | 32 | 8 | M20 |
| 180 | 150 | 16 | **753 700 618** | 2.430 | 180 | 240 | 285 | 22 | 212 | 45 | 30 | 32 | 8 | M20 |
| 200 | 200 | 16 | **753 700 619** | 3.495 | 232 | 295 | 340 | 22 | 268 | 50 | 32 | 34 | 8 | M20 |
| 225 | 200 | 16 | **753 700 620** | 3.744 | 235 | 295 | 340 | 22 | 268 | 50 | 32 | 34 | 8 | M20 |
| 250 | 250 | 16 | **753 700 621** | 6.051 | 285 | 350 | 395 | 22 | 320 | 55 | 35 | 38 | 12 | M20 |
| 280 | 250 | 16 | **753 700 622** | 6.305 | 291 | 350 | 395 | 22 | 320 | 60 | 35 | 38 | 12 | M20 |
| 315 | 300 | 16 | **753 700 623** | 8.894 | 335 | 400 | 445 | 22 | 370 | 65 | 35 | 42 | 12 | M20 |
| 355 | 350 | 16 | **753 700 624** | 23.198 | 373 | 460 | 515 | 22 | 430 | 70 | 40 | 40 | 16 | M20 |
| 400 | 400 | 16 | **753 700 625** | 30.766 | 427 | 515 | 574 | 26 | 482 | 75 | 46 | 40 | 16 | M24 |

table continued on the next page




| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | D (mm) | D1 (mm) | D2 (mm) | D3 (mm) | D4 (mm) | L (mm) | L1 (mm) | H (mm) | AL | SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 450 | 500 | 10 | **753 700 626** | 44.271 | 510 | 620 | 684 | 26 | 585 | 80 | 60 | 49 | 20 | M24 |
| 500 | 500 | 10 | **753 700 627** | 47.165 | 530 | 620 | 684 | 26 | 585 | 90 | 60 | 49 | 20 | M24 |
| 560 | 600 | 10 | **753 700 628** | 67.147 | 615 | 725 | 796 | 30 | 685 | 100 | 60 | 58 | 20 | M27 |
| 630 | 600 | 10 | **753 700 629** | 68.574 | 642 | 725 | 796 | 30 | 685 | 110 | 60 | 68 | 20 | M27 |



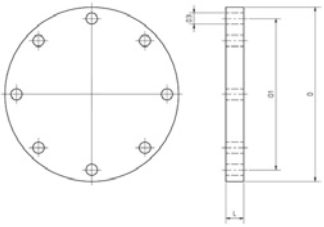
## Blanking Flanges PE100
## Bolt circle PN 10 PN 2.5 bar

**Model:**

- Made out of sheet material
- **Bolt circle PN 10**

**Remark:**

max. Druck 2,5 bar



| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | AL | D (mm) | L (mm) | D1 (mm) | D3 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 2.5 | **700 647 886** | 0.362 | 4 | 165 | 15 | 125 | 18 |
| 75 | 65 | 2.5 | **700 647 887** | 0.487 | 4 | 185 | 15 | 145 | 18 |
| 90 | 80 | 2.5 | **700 647 888** | 0.544 | 8 | 200 | 15 | 160 | 18 |
| 110 | 100 | 2.5 | **700 647 889** | 0.643 | 8 | 220 | 15 | 180 | 18 |
| 125 | 100 | 2.5 | **700 647 890** | 0.658 | 8 | 220 | 15 | 180 | 18 |
| 140 | 125 | 2.5 | **700 647 891** | 0.842 | 8 | 250 | 15 | 210 | 18 |
| 160 | 150 | 2.5 | **700 647 892** | 1.200 | 8 | 285 | 20 | 240 | 22 |
| 180 | 150 | 2.5 | **700 647 893** | 1.350 | 8 | 285 | 25 | 240 | 22 |
| 200 | 200 | 2.5 | **700 647 894** | 1.400 | 8 | 340 | 25 | 295 | 22 |
| 225 | 200 | 2.5 | **700 647 895** | 1.450 | 8 | 340 | 30 | 295 | 22 |
| 250 | 250 | 2.5 | **700 647 896** | 2.052 | 12 | 395 | 30 | 350 | 22 |
| 280 | 250 | 2.5 | **700 647 897** | 2.380 | 12 | 395 | 30 | 350 | 22 |
| 315 | 300 | 2.5 | **700 647 898** | 2.400 | 12 | 445 | 40 | 400 | 22 |
| 355 | 350 | 2.5 | **700 647 899** | 4.400 | 16 | 515 | 40 | 460 | 22 |
| 400 | 400 | 2.5 | **700 647 900** | 5.620 | 16 | 574 | 45 | 515 | 26 |
| 450 | 500 | 2.5 | **700 647 901** | 6.120 | 20 | 670 | 55 | 620 | 26 |
| 500 | 500 | 2.5 | **700 647 902** | 7.100 | 20 | 670 | 60 | 620 | 26 |
| 560 | 600 | 2.5 | **700 647 903** | 7.650 | 20 | 780 | 65 | 725 | 30 |
| 630 | 600 | 2.5 | **700 647 904** | 8.200 | 20 | 780 | 75 | 725 | 30 |



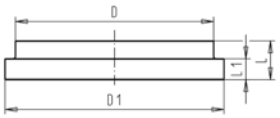
## End blank PE100
## For butt fusion systems metric

**Model:**

- Suitable for metric backing flanges

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | D (mm) | D1 (mm) | L (mm) | L1 (mm) |
|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 16 | **753 960 611** | 0.154 | 75 | 102 | 30 | 14 |
| 75 | 65 | 16 | **753 960 612** | 0.268 | 89 | 122 | 30 | 16 |
| 90 | 80 | 16 | **753 960 613** | 0.363 | 105 | 138 | 30 | 17 |
| 110 | 100 | 16 | **753 960 614** | 0.490 | 125 | 158 | 30 | 18 |
| 125 | 100 | 16 | **753 960 615** | 0.478 | 132 | 158 | 35 | 25 |
| 140 | 125 | 16 | **753 960 616** | 0.713 | 155 | 188 | 40 | 25 |
| 160 | 150 | 16 | **753 960 617** | 1.196 | 175 | 212 | 40 | 25 |
| 180 | 150 | 16 | **753 960 618** | 1.030 | 180 | 212 | 45 | 30 |
| 200 | 200 | 16 | **753 960 619** | 1.795 | 232 | 268 | 50 | 32 |
| 225 | 200 | 16 | **753 960 620** | 2.044 | 235 | 268 | 50 | 32 |

table continued on the next page




| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | D (mm) | D1 (mm) | L (mm) | L1 (mm) |
|---|---|---|---|---|---|---|---|---|
| 250 | 250 | 16 | **753 960 621** | 3.158 | 285 | 320 | 55 | 35 |
| 280 | 250 | 16 | **753 960 622** | 4.157 | 291 | 320 | 60 | 35 |
| 315 | 300 | 16 | **753 960 623** | 5.249 | 335 | 370 | 65 | 35 |
| 355 | 350 | 16 | **753 960 624** | 7.698 | 373 | 430 | 70 | 40 |
| 400 | 400 | 16 | **753 960 625** | 12.185 | 427 | 482 | 75 | 46 |
| 450 | 500 | 10 | **753 960 626** | 19.619 | 510 | 585 | 80 | 60 |
| 500 | 500 | 10 | **753 960 627** | 22.130 | 530 | 585 | 90 | 60 |
| 560 | 600 | 10 | **753 960 628** | 31.447 | 615 | 685 | 100 | 60 |
| 630 | 600 | 10 | **753 960 629** | 36.074 | 642 | 685 | 110 | 60 |

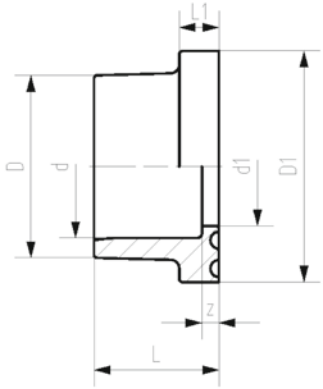
# Flange adaptors for socket fusion systems



### ecoFIT Flange adaptor PE100
### d20-110mm / SDR17 / Jointing face flat/serrated

**Model:**

- Counterpart: flange adaptor flat/serrated or with O-ring groove
- Connection: according to EN ISO 15494-, DIN 16963-11
- Gasket: profile flange gasket EPDM No. 48 44 07, FKM No. 49 44 07
- Flanges: PP - steel, No. 27 70 02, PP-V, No 27 70 04



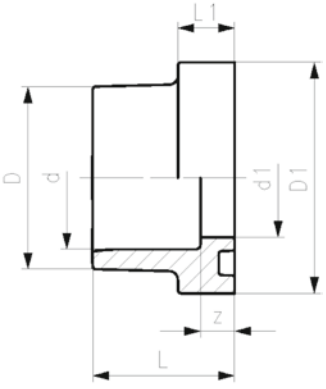

| d (mm) | DN (mm) | PN (bar) | SDR | Code | Weight (kg) | D (mm) | D1 (mm) | d1 (mm) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 17/17.6 | **753 790 206** | 0.013 | 27 | 45 | 16 | 19 | 7 | 5 |
| 25 | 20 | 10 | 17/17.6 | **753 790 207** | 0.022 | 33 | 58 | 21 | 21 | 9 | 5 |
| 32 | 25 | 10 | 17/17.6 | **753 790 208** | 0.035 | 41 | 68 | 28 | 23 | 10 | 5 |
| 40 | 32 | 10 | 17/17.6 | **753 790 209** | 0.052 | 50 | 78 | 36 | 25 | 11 | 5 |
| 50 | 40 | 10 | 17/17.6 | **753 790 210** | 0.061 | 61 | 88 | 45 | 28 | 12 | 5 |
| 63 | 50 | 10 | 17/17.6 | **753 790 211** | 0.095 | 76 | 102 | 57 | 32 | 14 | 5 |
| 75 | 65 | 10 | 17/17.6 | **753 790 212** | 0.163 | 90 | 122 | 69 | 36 | 16 | 5 |
| 90 | 80 | 10 | 17/17.6 | **753 790 213** | 0.203 | 108 | 138 | 84 | 42 | 17 | 7 |
| 110 | 100 | 10 | 17/17.6 | **753 790 214** | 0.293 | 131 | 158 | 100 | 48 | 18 | 7 |



### ecoFIT Flange Adaptor PE 80
### Jointing face with o-ring groove

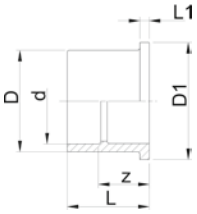
**Model:**

- Counterpart: flange adaptor flat/serrated 53 79 02
- Gasket: O-ring EPDM
- Flanges: PP - steel, No. 27 70 02, PP-V, No 27 70 04




| d (mm) | SDR | DN (mm) | PN (bar) | Code | Weight (kg) | D (mm) | D1 (mm) | d1 (mm) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 11 | 15 | 10 | **733 810 106** | 0.008 | 27 | 34 | 16 | 22 | 9 | 8 |
| 25 | 11 | 20 | 10 | **733 810 107** | 0.012 | 33 | 41 | 21 | 24 | 10 | 8 |
| 32 | 11 | 25 | 10 | **733 810 108** | 0.019 | 41 | 50 | 28 | 26 | 10 | 8 |
| 40 | 11 | 32 | 10 | **733 810 109** | 0.031 | 50 | 61 | 36 | 30 | 13 | 10 |
| 50 | 11 | 40 | 10 | **733 810 110** | 0.044 | 61 | 73 | 45 | 33 | 13 | 10 |
| 63 | 11 | 50 | 10 | **733 810 111** | 0.072 | 76 | 90 | 57 | 37 | 14 | 10 |
| 75 | 11 | 65 | 10 | **733 810 112** | 0.112 | 90 | 106 | 69 | 40 | 15 | 10 |
| 90 | 11 | 80 | 10 | **733 810 113** | 0.185 | 108 | 125 | 84 | 47 | 16 | 12 |
| 110 | 11 | 100 | 10 | **733 810 114** | 0.285 | 131 | 150 | 100 | 55 | 18 | 13 |






### ecoFIT Outlet flange adaptor PE80
### d40-110mm / SDR11 / Jointing face flat

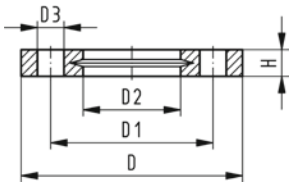
**Model:**

- With fusion socket metric
- Suitable for wafer check valves Type 369
- To be installed on the outlet side of the valve
- Use flanges PP-V 27 70 04

| d (mm) | SDR | DN (mm) | PN (bar) | Code | Weight (kg) | D (mm) | D1 (mm) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 40 | 11 | 32 | 6 | **733 800 009** | 0.065 | 50 | 78 | 55 | 11 | 35 |
| 50 | 11 | 40 | 6 | **733 800 010** | 0.088 | 61 | 88 | 61 | 12 | 38 |
| 63 | 11 | 50 | 6 | **733 800 011** | 0.136 | 76 | 102 | 69 | 14 | 41 |
| 75 | 11 | 65 | 6 | **733 800 012** | 0.223 | 90 | 122 | 79 | 16 | 49 |
| 90 | 11 | 80 | 6 | **733 800 013** | 0.357 | 107 | 138 | 100 | 17 | 65 |
| 110 | 11 | 100 | 6 | **733 800 014** | 0.482 | 130 | 158 | 105 | 18 | 62 |

## Flanges for socket fusion systems






### Flanges PP-V (full plastic)

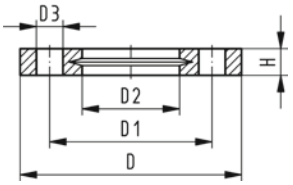
**Model:**

- Full-plastic flange PP-GF (30 % glass-fibre reinforced)
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D2024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes

| d (mm) | DN (mm) | d (inch) | PN (bar) | Standard | Bolt / circle | Design | Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 20 | 15 | | 16 | Metric | PN10 | Butt/Socket | **727 700 406** | 0.093 |
| 20 | 15 | ½ | 16 | ASME | class 150 | Butt/Socket | **727 701 406** | 0.091 |
| 25 | 20 | | 16 | Metric | PN10 | Butt/Socket | **727 700 407** | 0.120 |
| 25 | 20 | ¾ | 16 | ASME | class 150 | Butt/Socket | **727 701 407** | 0.120 |
| 32 | 25 | | 16 | Metric | PN10 | Butt/Socket | **727 700 408** | 0.151 |
| 32 | 25 | 1 | 16 | ASME | class 150 | Butt/Socket | **727 701 408** | 0.147 |
| 40 | 32 | | 16 | Metric | PN10 | Butt/Socket | **727 700 409** | 0.244 |
| 40 | 32 | 1 ¼ | 16 | ASME | class 150 | Butt/Socket | **727 701 409** | 0.246 |
| 50 | 40 | | 16 | Metric | PN10 | Butt/Socket | **727 700 410** | 0.297 |
| 50 | 40 | 1 ½ | 16 | ASME | class 150 | Butt/Socket | **727 701 410** | 0.299 |
| 63 | 50 | | 16 | Metric | PN10 | Butt/Socket | **727 700 411** | 0.362 |
| 63 | 50 | 2 | 16 | ASME | class 150 | Butt/Socket | **727 701 411** | 0.361 |
| 75 | 65 | | 16 | Metric | PN10 | Butt/Socket | **727 700 412** | 0.487 |
| 75 | 65 | 2 ½ | 16 | ASME | class 150 | Butt/Socket | **727 701 412** | 0.492 |
| 90 | 80 | | 16 | Metric | PN10 | Socket | **727 700 413** | 0.550 |
| 90 | 80 | | 16 | Metric | PN10 | Butt | **727 700 513** | 0.544 |
| 90 | 80 | 3 | 16 | ASME | class 150 | Socket | **727 701 413** | 0.605 |
| 90 | 80 | 3 | 16 | ASME | class 150 | Butt | **727 701 513** | 0.607 |
| 110 | 100 | | 16 | Metric | PN10 | Socket | **727 700 414** | 0.640 |
| 110 | 100 | | 16 | Metric | PN10 | Butt | **727 700 514** | 0.643 |
| 110 | 100 | 4 | 16 | ASME | class 150 | Socket | **727 701 414** | 0.704 |
| 110 | 100 | 4 | 16 | ASME | class 150 | Butt | **727 701 514** | 0.736 |
| 125 | 100 | | 16 | Metric | PN10 | Butt | **727 700 515** | 0.635 |
| 140 | 125 | | 16 | Metric | PN10 | Socket | **727 700 416** | 0.781 |
| 140 | 125 | | 16 | Metric | PN10 | Butt | **727 700 516** | 0.842 |
| 160 | 150 | | 16 | Metric/ASME | PN10/ class 150 | Socket | **727 700 417** | 1.050 |
| 160 | 150 | 6 | 16 | Metric/ASME | PN10/ class 150 | Butt | **727 700 517** | 1.200 |
| 180 | 150 | | 16 | Metric/ASME | PN10/ Class 150 | Butt | **727 700 518** | 1.200 |
| 200 | 200 | | 16 | Metric/ASME | PN10/ class 150 | Socket | **727 700 419** | 1.629 |

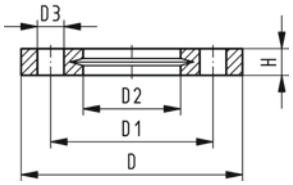
table continued on the next page




| d (mm) | DN (mm) | d (inch) | PN (bar) | Standard | Bolt / circle | Design | Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 200 | 200 | 8 | 16 | Metric/ASME | PN10/ class 150 | Butt | **727 700 519** | 1.400 |
| 225 | 200 | | 16 | Metric/ASME | PN10/ class 150 | Socket | **727 700 420** | 1.400 |
| 225 | 200 | 8 | 16 | Metric/ASME | PN10/ class 150 | Butt | **727 700 520** | 1.400 |
| 250 | 250 | | 10 | Metric | PN10 | Socket | **727 700 421** | 2.229 |
| 250 | 250 | | 10 | Metric | PN10 | Butt | **727 700 521** | 2.052 |
| 250 | 250 | 10 | 10 | ASME | class 150 | Butt | **727 701 521** | 2.241 |
| 280 | 250 | | 10 | Metric | PN10 | Socket | **727 700 422** | 1.651 |
| 280 | 250 | | 10 | Metric | PN10 | Butt | **727 700 522** | 1.700 |
| 280 | 250 | 10 | 10 | ASME | class 150 | Socket | **727 701 422** | 1.838 |
| 280 | 250 | 10 | 10 | ASME | class 150 | Butt | **727 701 522** | 2.173 |
| 315 | 300 | | 10 | Metric | PN10 | Socket | **727 700 423** | 2.461 |
| 315 | 300 | | 10 | Metric | PN10 | Butt | **727 700 523** | 2.400 |
| 315 | 300 | 12 | 10 | ASME | class 150 | Socket | **727 701 423** | 3.482 |
| 315 | 300 | 12 | 10 | ASME | class 150 | Butt | **727 701 523** | 3.627 |
| 355 | 350 | | 10 | Metric | PN10 | Socket | **727 700 424** | 3.000 |
| 355 | 350 | | 10 | Metric | PN10 | Butt | **727 700 524** | 4.440 |
| 400 | 400 | | 10 | Metric | PN10 | Socket | **727 700 425** | 5.135 |
| 400 | 400 | | 10 | Metric | PN10 | Butt | **727 700 525** | 5.624 |

| d (mm) | D (mm) | D1 (mm) | D2 (mm) | D3 (mm) | H max. (mm) | AL | SC |
|---|---|---|---|---|---|---|---|
| 20 | 95 | 65 | 28 | 14 | 16 | 4 | M12 |
| 20 | 95 | 60 | 28 | 16 | 16 | 4 | M12 |
| 25 | 105 | 75 | 34 | 14 | 17 | 4 | M12 |
| 25 | 105 | 70 | 34 | 16 | 17 | 4 | M12 |
| 32 | 115 | 85 | 42 | 14 | 18 | 4 | M12 |
| 32 | 115 | 79 | 42 | 16 | 18 | 4 | M12 |
| 40 | 140 | 100 | 51 | 18 | 20 | 4 | M16 |
| 40 | 140 | 89 | 51 | 16 | 20 | 4 | M16 |
| 50 | 150 | 110 | 62 | 18 | 22 | 4 | M16 |
| 50 | 150 | 98 | 62 | 16 | 22 | 4 | M16 |
| 63 | 165 | 125 | 78 | 18 | 24 | 4 | M16 |
| 63 | 165 | 121 | 78 | 19 | 24 | 4 | M16 |
| 75 | 185 | 145 | 92 | 18 | 26 | 4 | M16 |
| 75 | 185 | 140 | 92 | 19 | 26 | 4 | M16 |
| 90 | 200 | 160 | 110 | 18 | 27 | 8 | M16 |
| 90 | 200 | 160 | 108 | 18 | 27 | 8 | M16 |
| 90 | 200 | 152 | 110 | 19 | 27 | 4 | M16 |
| 90 | 200 | 152 | 108 | 19 | 27 | 4 | M16 |
| 110 | 220 | 180 | 133 | 18 | 28 | 8 | M16 |
| 110 | 220 | 180 | 128 | 18 | 28 | 8 | M16 |
| 110 | 229 | 190 | 133 | 19 | 28 | 8 | M16 |
| 110 | 229 | 190 | 128 | 19 | 28 | 8 | M16 |
| 125 | 220 | 180 | 135 | 18 | 28 | 8 | M16 |
| 140 | 250 | 210 | 167 | 18 | 30 | 8 | M16 |
| 140 | 250 | 210 | 158 | 18 | 30 | 8 | M16 |
| 160 | 285 | 240 | 190 | 22 | 32 | 8 | M20 |
| 160 | 285 | 240 | 178 | 22 | 32 | 8 | M20 |
| 180 | 285 | 240 | 188 | 22 | 32 | 8 | M20 |
| 200 | 340 | 297 | 226 | 22 | 34 | 8 | M20 |
| 200 | 340 | 297 | 235 | 22 | 34 | 8 | M20 |
| 225 | 340 | 295 | 250 | 22 | 34 | 8 | M20 |
| 225 | 340 | 297 | 238 | 22 | 34 | 8 | M20 |
| 250 | 395 | 350 | 277 | 22 | 38 | 12 | M20 |
| 250 | 395 | 350 | 288 | 22 | 38 | 12 | M20 |
| 250 | 406 | 362 | 288 | 26 | 38 | 12 | M20 |
| 280 | 395 | 350 | 310 | 22 | 38 | 12 | M20 |
| 280 | 395 | 350 | 294 | 22 | 38 | 12 | M20 |
| 280 | 406 | 362 | 310 | 26 | 38 | 12 | M20 |
| 280 | 406 | 362 | 294 | 26 | 38 | 12 | M20 |
| 315 | 445 | 400 | 348 | 22 | 42 | 12 | M20 |

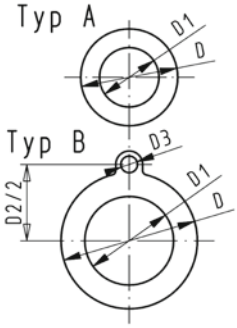
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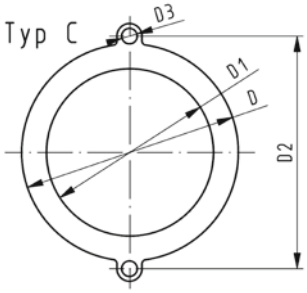



| d (mm) | D (mm) | D1 (mm) | D2 (mm) | D3 (mm) | H max. (mm) | AL | SC |
|---|---|---|---|---|---|---|---|
| 315 | 445 | 400 | 338 | 22 | 42 | 12 | M20 |
| 315 | 483 | 432 | 348 | 26 | 42 | 12 | M20 |
| 315 | 483 | 432 | 338 | 26 | 42 | 12 | M20 |
| 355 | 515 | 460 | 388 | 22 | 46 | 16 | M20 |
| 355 | 515 | 460 | 376 | 22 | 46 | 16 | M20 |
| 400 | 574 | 515 | 442 | 26 | 50 | 16 | M24 |
| 400 | 574 | 515 | 430 | 26 | 50 | 16 | M24 |

# Gaskets for socket fusion






**Flat gasket**
**EPDM**

**Model:**

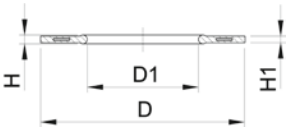
- For all metric GF Flange Adaptors
- Hardness approx. 65° Shore
- Integrated fixation aids from d110
- Centering on the inner diameter of the screw crown

di FA are the suitable inner diameters of flanges adaptors

| d (mm) | DN (mm) | PN (bar) | Type | EPDM Code | Weight (kg) | D (mm) | D1 (mm) | D2 (mm) | D3 (mm) | H (mm) | di FA (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | A | **748 400 305** | 0.004 | 46 | 16 | | | 2 | 6 - 26 |
| 20 | 15 | 10 | A | **748 400 306** | 0.012 | 51 | 20 | | | 2 | 10 - 30 |
| 25 | 20 | 10 | A | **748 400 307** | 0.004 | 61 | 25 | | | 2 | 15 - 35 |
| 32 | 25 | 10 | A | **748 400 308** | 0.008 | 71 | 32 | | | 2 | 22 - 42 |
| 40 | 32 | 10 | A | **748 400 309** | 0.013 | 82 | 40 | | | 3 | 30 - 50 |
| 50 | 40 | 10 | A | **748 400 310** | 0.016 | 92 | 50 | | | 3 | 40 - 60 |
| 63 | 50 | 10 | A | **748 400 311** | 0.018 | 107 | 63 | | | 3 | 53 - 73 |
| 75 | 65 | 10 | A | **748 400 312** | 0.029 | 127 | 71 | | | 3 | 61 - 81 |
| 90 | 80 | 10 | A | **748 400 313** | 0.035 | 142 | 84 | | | 3 | 74 - 94 |
| 110 | 100 | 10 | B | **748 400 314** | 0.051 | 162 | 104 | 180 | 18 | 4 | 94 - 114 |
| 125 | 100 | 10 | B | **748 400 315** | 0.044 | 162 | 119 | 180 | 18 | 4 | 109 - 129 |
| 140 | 125 | 10 | B | **748 400 316** | 0.068 | 192 | 134 | 210 | 18 | 4 | 124 - 144 |
| 160 - 180 | 150 | 10 | B | **748 400 317** | 0.090 | 218 | 155 | 241 | 22 | 4 | 145 - 165 |
| 200 | 200 | 6 | C | **748 400 319** | 0.180 | 273 | 195 | 295 | 22 | 5 | 185 - 205 |
| 225 | 200 | 6 | C | **748 400 320** | 0.140 | 273 | 216 | 295 | 22 | 5 | 206 - 226 |
| 250 | 250 | 6 | C | **748 400 321** | 0.210 | 328 | 250 | 350 | 22 | 5 | 240 - 260 |
| 280 | 250 | 6 | C | **748 400 322** | 0.151 | 328 | 273 | 350 | 22 | 5 | 263 - 283 |
| 315 | 300 | 6 | C | **748 400 323** | 0.237 | 378 | 305 | 400 | 22 | 5 | 295 - 315 |








## Profile Flange Gasket EPDM/FKM metric

**Model:**

- For all metric GF Flange Adaptors
- Hardness: 70° Shore EPDM, 75° Shore FKM
- EPDM: approved acc. to DVGW Water W 270, KTW recommendation
- Centering on the inner diameter of the screw crown
- material steel insert: carbon steel
- Rubber-steel body combined with rubber profile cord ring up to d630
- Rubber-steel body ideal for big dimensions (d710 - d1000)

di FA are the suitable inner diameters of flanges adaptors

| d (mm) | DN (mm) | PN (bar) | EPDM Code | FKM Code | Weight (kg) | D (mm) | D1 (mm) | di FA (mm) | H (mm) | H1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 16 | **748 440 705** | **749 440 705** | 0.012 | 46 | 16 | 6 - 16 | 4 | 3 |
| 20 | 15 | 16 | **748 440 706** | **749 440 706** | 0.013 | 51 | 20 | 10 - 20 | 4 | 3 |
| 25 | 20 | 16 | **748 440 707** | **749 440 707** | 0.014 | 61 | 22 | 12 - 22 | 4 | 3 |
| 32 | 25 | 16 | **748 440 708** | **749 440 708** | 0.019 | 71 | 28 | 18 - 28 | 4 | 3 |
| 40 | 32 | 16 | **748 440 709** | **749 440 709** | 0.026 | 82 | 40 | 30 - 40 | 4 | 3 |
| 50 | 40 | 16 | **748 440 710** | **749 440 710** | 0.039 | 92 | 46 | 36 - 46 | 4 | 3 |
| 63 | 50 | 16 | **748 440 711** | **749 440 711** | 0.050 | 107 | 58 | 48 - 58 | 5 | 4 |
| 75 | 65 | 16 | **748 440 712** | **749 440 712** | 0.082 | 127 | 69 | 59 - 69 | 5 | 4 |
| 90 | 80 | 16 | **748 440 713** | **749 440 713** | 0.083 | 142 | 84 | 73 - 84 | 5 | 4 |
| 110 | 100 | 16 | **748 440 714** | **749 440 714** | 0.127 | 162 | 104 | 94 - 104 | 6 | 5 |
| 125 | 100 | 16 | **748 440 715** | **749 440 715** | 0.105 | 162 | 123 | 113 - 123 | 6 | 5 |
| 140 | 125 | 16 | **748 440 716** | **749 440 716** | 0.173 | 192 | 137 | 127 - 137 | 6 | 5 |
| 160 - 180 | 150 | 16 | **748 440 717** | **749 440 717** | 0.207 | 218 | 160 | 150 - 160 | 8 | 6 |
| 200 | 200 | 16 | **748 440 719** | **749 440 719** | 0.263 | 273 | 203 | 192 - 203 | 8 | 6 |
| 225 | 200 | 16 | **748 440 720** | **749 440 720** | 0.255 | 273 | 220 | 207 - 220 | 8 | 6 |
| 250 | 250 | 16 | **748 440 721** | **749 440 721** | 0.462 | 328 | 252 | 238 - 252 | 8 | 6 |
| 280 | 250 | 16 | **748 440 722** | **749 440 722** | 0.323 | 328 | 274 | 264 - 274 | 8 | 6 |
| 315 | 300 | 16 | **748 440 723** | **749 440 723** | 0.549 | 378 | 306 | 296 - 306 | 8 | 6 |
| 355 | 350 | 16 | **748 440 724** | **749 440 724** | 0.870 | 438 | 355 | 340 - 355 | 10 | 7 |
| 400 | 400 | 16 | **748 440 725** | **749 440 725** | 1.088 | 489 | 400 | 385 - 400 | 10 | 7 |
| 450 | 500 | 10 | **748 440 726** | **749 440 726** | 0.718 | 594 | 403 | 393 - 403 | 10 | 7 |
| 500 | 500 | 10 | **748 440 727** | **749 440 727** | 0.718 | 594 | 447 | 437 - 447 | 10 | 7 |
| 560 | 600 | 10 | **748 440 728** | **749 440 728** | 0.923 | 695 | 494 | 484 - 494 | 10 | 7 |
| 630 | 600 | 10 | **748 440 729** | **749 440 729** | 0.923 | 695 | 555 | 545 - 555 | 10 | 7 |
| 710 | 700 | 6 | **748 440 730** | | 0.890 | 810 | 712 | 562 - 712 | 6 | 3 |
| 800 | 800 | 6 | **748 440 731** | | 1.340 | 917 | 813 | 663 - 813 | 6 | 3 |
| 900 | 900 | 6 | **748 440 732** | | 1.170 | 1017 | 915 | 765 - 915 | 6 | 3 |
| 1000 | 1000 | 6 | **748 440 733** | | 1.360 | 1124 | 1016 | 866 - 1016 | 6 | 3 |

# Gaskets for butt fusion

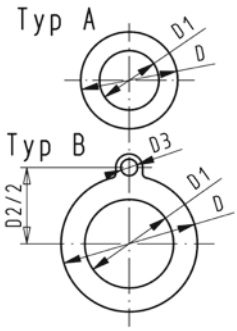


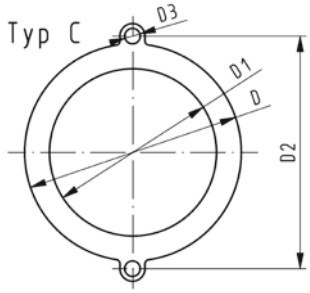
## Flat gasket
## EPDM

**Model:**

- For all metric GF Flange Adaptors
- Hardness approx. 65° Shore
- Integrated fixation aids from d110
- Centering on the inner diameter of the screw crown

di FA are the suitable inner diameters of flanges adaptors

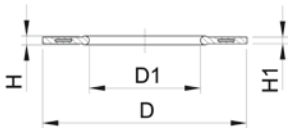



| d (mm) | DN (mm) | PN (bar) | Type | EPDM Code | Weight (kg) | D (mm) | D1 (mm) | D2 (mm) | D3 (mm) | H (mm) | di FA (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | A | **748 400 305** | 0.004 | 46 | 16 | | | 2 | 6 - 26 |
| 20 | 15 | 10 | A | **748 400 306** | 0.012 | 51 | 20 | | | 2 | 10 - 30 |
| 25 | 20 | 10 | A | **748 400 307** | 0.004 | 61 | 25 | | | 2 | 15 - 35 |
| 32 | 25 | 10 | A | **748 400 308** | 0.008 | 71 | 32 | | | 2 | 22 - 42 |
| 40 | 32 | 10 | A | **748 400 309** | 0.013 | 82 | 40 | | | 3 | 30 - 50 |
| 50 | 40 | 10 | A | **748 400 310** | 0.016 | 92 | 50 | | | 3 | 40 - 60 |
| 63 | 50 | 10 | A | **748 400 311** | 0.018 | 107 | 63 | | | 3 | 53 - 73 |
| 75 | 65 | 10 | A | **748 400 312** | 0.029 | 127 | 71 | | | 3 | 61 - 81 |
| 90 | 80 | 10 | A | **748 400 313** | 0.035 | 142 | 84 | | | 3 | 74 - 94 |
| 110 | 100 | 10 | B | **748 400 314** | 0.051 | 162 | 104 | 180 | 18 | 4 | 94 - 114 |
| 125 | 100 | 10 | B | **748 400 315** | 0.044 | 162 | 119 | 180 | 18 | 4 | 109 - 129 |
| 140 | 125 | 10 | B | **748 400 316** | 0.068 | 192 | 134 | 210 | 18 | 4 | 124 - 144 |
| 160 - 180 | 150 | 10 | B | **748 400 317** | 0.090 | 218 | 155 | 241 | 22 | 4 | 145 - 165 |
| 200 | 200 | 6 | C | **748 400 319** | 0.180 | 273 | 195 | 295 | 22 | 5 | 185 - 205 |
| 225 | 200 | 6 | C | **748 400 320** | 0.140 | 273 | 216 | 295 | 22 | 5 | 206 - 226 |
| 250 | 250 | 6 | C | **748 400 321** | 0.210 | 328 | 250 | 350 | 22 | 5 | 240 - 260 |
| 280 | 250 | 6 | C | **748 400 322** | 0.151 | 328 | 273 | 350 | 22 | 5 | 263 - 283 |
| 315 | 300 | 6 | C | **748 400 323** | 0.237 | 378 | 305 | 400 | 22 | 5 | 295 - 315 |








## Profile Flange Gasket EPDM/FKM
## metric

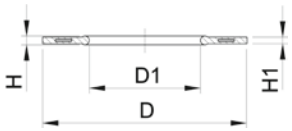
**Model:**

- For all metric GF Flange Adaptors
- Hardness: 70° Shore EPDM, 75° Shore FKM
- EPDM: approved acc. to DVGW Water W 270, KTW recommendation
- Centering on the inner diameter of the screw crown
- material steel insert: carbon steel
- Rubber-steel body combined with rubber profile cord ring up to d630
- Rubber-steel body ideal for big dimensions (d710 - d1000)

di FA are the suitable inner diameters of flanges adaptors

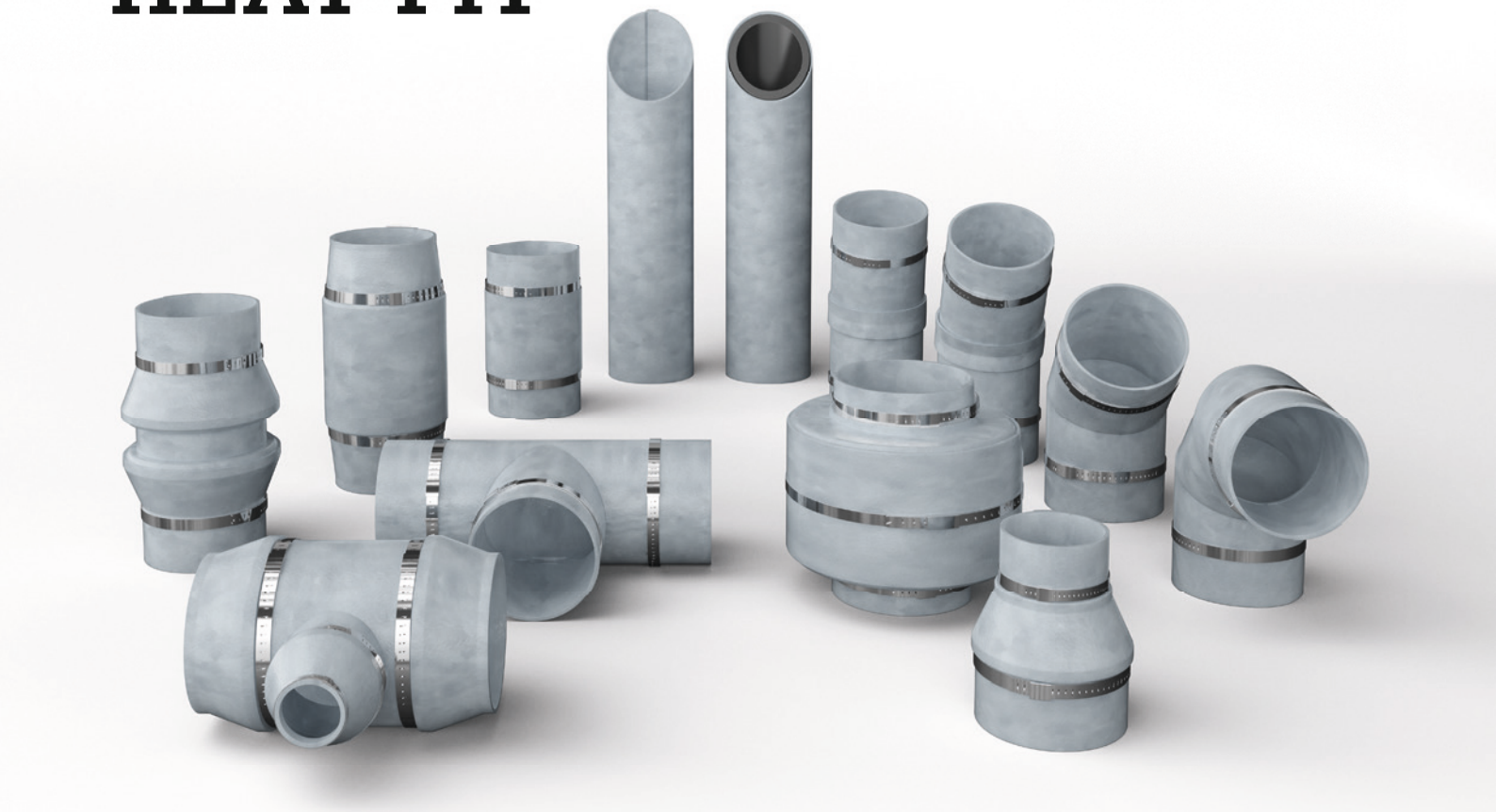
| d (mm) | DN (mm) | PN (bar) | EPDM Code | FKM Code | Weight (kg) | D (mm) | D1 (mm) | di FA (mm) | H (mm) | H1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 16 | **748 440 705** | **749 440 705** | 0.012 | 46 | 16 | 6 - 16 | 4 | 3 |
| 20 | 15 | 16 | **748 440 706** | **749 440 706** | 0.013 | 51 | 20 | 10 - 20 | 4 | 3 |
| 25 | 20 | 16 | **748 440 707** | **749 440 707** | 0.014 | 61 | 22 | 12 - 22 | 4 | 3 |
| 32 | 25 | 16 | **748 440 708** | **749 440 708** | 0.019 | 71 | 28 | 18 - 28 | 4 | 3 |
| 40 | 32 | 16 | **748 440 709** | **749 440 709** | 0.026 | 82 | 40 | 30 - 40 | 4 | 3 |
| 50 | 40 | 16 | **748 440 710** | **749 440 710** | 0.039 | 92 | 46 | 36 - 46 | 4 | 3 |
| 63 | 50 | 16 | **748 440 711** | **749 440 711** | 0.050 | 107 | 58 | 48 - 58 | 5 | 4 |
| 75 | 65 | 16 | **748 440 712** | **749 440 712** | 0.082 | 127 | 69 | 59 - 69 | 5 | 4 |
| 90 | 80 | 16 | **748 440 713** | **749 440 713** | 0.083 | 142 | 84 | 73 - 84 | 5 | 4 |
| 110 | 100 | 16 | **748 440 714** | **749 440 714** | 0.127 | 162 | 104 | 94 - 104 | 6 | 5 |
| 125 | 100 | 16 | **748 440 715** | **749 440 715** | 0.105 | 162 | 123 | 113 - 123 | 6 | 5 |
| 140 | 125 | 16 | **748 440 716** | **749 440 716** | 0.173 | 192 | 137 | 127 - 137 | 6 | 5 |
| 160 - 180 | 150 | 16 | **748 440 717** | **749 440 717** | 0.207 | 218 | 160 | 150 - 160 | 8 | 6 |
| 200 | 200 | 16 | **748 440 719** | **749 440 719** | 0.263 | 273 | 203 | 192 - 203 | 8 | 6 |
| 225 | 200 | 16 | **748 440 720** | **749 440 720** | 0.255 | 273 | 220 | 207 - 220 | 8 | 6 |

table continued on the next page




| d (mm) | DN (mm) | PN (bar) | EPDM Code | FKM Code | Weight (kg) | D (mm) | D1 (mm) | di FA (mm) | H (mm) | H1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 250 | 250 | 16 | **748 440 721** | **749 440 721** | 0.462 | 328 | 252 | 238 - 252 | 8 | 6 |
| 280 | 250 | 16 | **748 440 722** | **749 440 722** | 0.323 | 328 | 274 | 264 - 274 | 8 | 6 |
| 315 | 300 | 16 | **748 440 723** | **749 440 723** | 0.549 | 378 | 306 | 296 - 306 | 8 | 6 |
| 355 | 350 | 16 | **748 440 724** | **749 440 724** | 0.870 | 438 | 355 | 340 - 355 | 10 | 7 |
| 400 | 400 | 16 | **748 440 725** | **749 440 725** | 1.088 | 489 | 400 | 385 - 400 | 10 | 7 |
| 450 | 500 | 10 | **748 440 726** | **749 440 726** | 0.718 | 594 | 403 | 393 - 403 | 10 | 7 |
| 500 | 500 | 10 | **748 440 727** | **749 440 727** | 0.718 | 594 | 447 | 437 - 447 | 10 | 7 |
| 560 | 600 | 10 | **748 440 728** | **749 440 728** | 0.923 | 695 | 494 | 484 - 494 | 10 | 7 |
| 630 | 600 | 10 | **748 440 729** | **749 440 729** | 0.923 | 695 | 555 | 545 - 555 | 10 | 7 |
| 710 | 700 | 6 | **748 440 730** | | 0.890 | 810 | 712 | 562 - 712 | 6 | 3 |
| 800 | 800 | 6 | **748 440 731** | | 1.340 | 917 | 813 | 663 - 813 | 6 | 3 |
| 900 | 900 | 6 | **748 440 732** | | 1.170 | 1017 | 915 | 765 - 915 | 6 | 3 |
| 1000 | 1000 | 6 | **748 440 733** | | 1.360 | 1124 | 1016 | 866 - 1016 | 6 | 3 |

# HEAT-FIT



## Your benefits

+ **30% lighter than metal**
+ **Ultimate fire protection in L3 areas, according to IMO Res. A753**
+ **Fast and easy installation**

## Technical data

**Materials**
Multilayer pipes
Inner pipe material: PE100
Flame retardant jacket: Multilayer composite

**Dimensions range**
d110 – d315

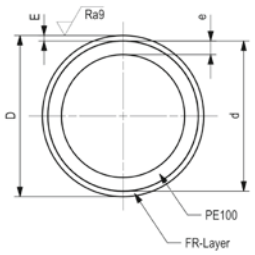
**Jointing technology**
Butt fusion and electrofusion

**Operating pressure**
PN16

**Operating temperature**
–10°C to 95°C

The value above listed are to be considered for water, in case of use chemical addition it is always recommended to contact GF specialist to an individual and more detailed assessment.






## HEAT-FIT™ PE - Co-Extruded Flame-Retardant Pipe SDR11 / PN16 / S5 Model

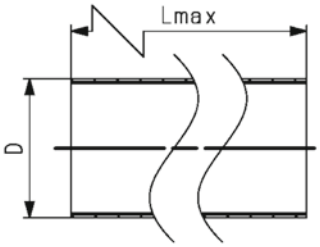
- Co-Extruded Pipe: Standard ecoFIT PE100 pipe with Flame Retardant Layer
- Color: White-Grey
- Marine specific test – IMO A.753 (18) Level 3

**Model:**

- Pipe length: 5m, with plain ends
- Note 1: Special half-shells are available on request due to the fact of a slightly bigger outer pipe dimension of the pipe.
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

| Dimension | SDR | PN (bar) | Code | Weight (kg/m) | e (mm) | E (mm) |
|---|---|---|---|---|---|---|
| d110/D118 | 11 | 16 | **756 017 114** | 5.3 | 10.0 | 4 |
| d160/D168 | 11 | 16 | **756 017 117** | 9.9 | 14.6 | 4 |
| d225/D233 | 11 | 16 | **756 017 120** | 17.7 | 20.5 | 4 |
| d315/D323 | 11 | 16 | **756 017 123** | 32.2 | 28.6 | 4 |



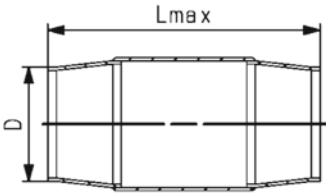



## HEAT-FIT™ - Jacket Pipe Sleeve for ecoFIT PE piping systems

- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

| d (mm) | D (mm) | Code | Weight (kg) | Lmax (mm) | for ecoFIT article |
|---|---|---|---|---|---|
| 110 | 122 | **756 170 114** | 6.90 | 4960 | 193 017 164 |
| 160 | 172 | **756 170 117** | 9.90 | 4960 | 193 017 167 |
| 225 | 237 | **756 170 120** | 14.91 | 4960 | 193 017 170 |
| 315 | 327 | **756 170 123** | 19.73 | 4960 | 193 017 173 |



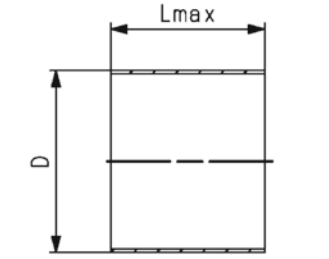



## HEAT-FIT™ - Jacket Electrofusion Coupler for ecoFIT PE piping systems

- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

| d (mm) | D (mm) | Code | Weight (kg) | Lmax (mm) | Required length metal strap per piece [cm] | Required quantity closures per piece [pieces] | for ELGEF Plus article |
|---|---|---|---|---|---|---|---|
| 110 | 124 | **756 910 114** | 0.80 | 285 | 240 | 4 | 753 911 614 |
| 160 | 174 | **756 910 117** | 1.00 | 320 | 330 | 4 | 753 911 617 |
| 225 | 239 | **756 910 120** | 1.45 | 425 | 460 | 4 | 753 911 620 |
| 315 | 329 | **756 910 123** | 1.79 | 507 | 640 | 4 | 753 911 623 |



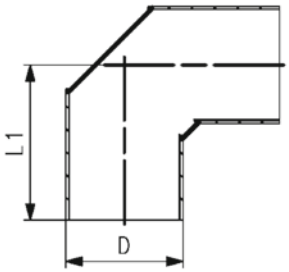



## HEAT-FIT™ - Jacket Weld Bead Cover for ecoFIT PE piping systems

- Consists of intumescent fire retardant material
- ecoFIT articles have to be ordered separately
- Valid for standard and long spigot bends
- Type approved for marine application by ABS, BV, DNV, LR and RINA

| d (mm) | D (mm) | Code | Weight (kg) | Lmax (mm) | Required length metal strap per piece [cm] | Required quantity closures per piece [pieces] |
|---|---|---|---|---|---|---|
| 110 | 132 | **756 170 334** | 0.30 | 152 | 110 | 2 |
| 160 | 182 | **756 170 337** | 0.30 | 152 | 140 | 2 |
| 225 | 247 | **756 170 330** | 0.45 | 152 | 210 | 2 |
| 315 | 337 | **756 170 333** | 0.76 | 152 | 290 | 2 |



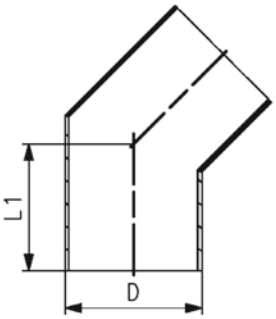



## HEAT-FIT™ - Jacket 90° Bend for ecoFIT PE piping systems

- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

| d (mm) | D (mm) | Code | Weight (kg) | L1 (mm) | Required length metal strap per piece [cm] | Required quantity closures per piece [pieces] | for ecoFIT article |
|---|---|---|---|---|---|---|---|
| 110 | 124 | **756 100 114** | 0.60 | 180 | 110 | 2 | 753 018 744 |
| 160 | 174 | **756 100 117** | 1.10 | 230 | 140 | 2 | 753 018 717 |
| 225 | 239 | **756 100 120** | 1.47 | 320 | 315 | 3 | 753 018 720 |
| 315 | 329 | **756 100 123** | 3.05 | 441 | 435 | 3 | 753 018 623 |



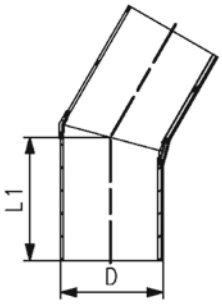



## HEAT-FIT™ - Jacket 45° Elbow for ecoFIT PE piping systems

- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

| d (mm) | D (mm) | Code | Weight (kg) | L1 (mm) | Required length metal strap per piece [cm] | Required quantity closures per piece [pieces] | for ecoFIT and ELGEF Plus article |
|---|---|---|---|---|---|---|---|
| 110 | 124 | **756 150 114** | 0.50 | 140 | 110 | 2 | 753 158 614 |
| 160 | 174 | **756 150 117** | 0.80 | 170 | 140 | 2 | 753 158 617 |
| 225 | 239 | **756 150 120** | 1.13 | 240 | 315 | 3 | 753 158 620 |
| 315 | 329 | **756 150 123** | 3.72 | 366 | 435 | 3 | 753 150 923 |



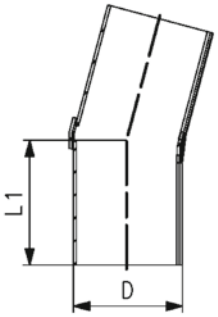



## HEAT-FIT™ - Jacket 30° Elbow

- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

| d (mm) | D (mm) | Code | Weight (kg) | L1 (mm) | Required length metal strap per piece [cm] | Required quantity closures per piece [pieces] | for ELGEF Plus article |
|---|---|---|---|---|---|---|---|
| 110 | 124 | **756 120 114** | 0.70 | 185 | 110 | 2 | 753 120 914 |
| 160 | 174 | **756 120 117** | 1.10 | 210 | 210 | 3 | 753 120 917 |
| 225 | 239 | **756 120 120** | 1.50 | 270 | 315 | 3 | 753 120 920 |
| 315 | 329 | **756 120 123** | 2.73 | 320 | 435 | 3 | 753 120 923 |






## HEAT-FIT™ - Jacket 15° Elbow

- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

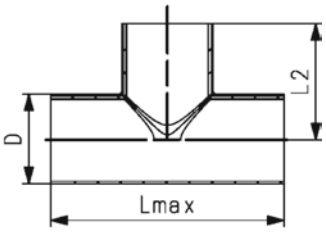
| d (mm) | D (mm) | Code | Weight (kg) | L1 (mm) | Required length metal strap per piece [cm] | Required quantity closures per piece [pieces] | for ELGEF Plus article |
|---|---|---|---|---|---|---|---|
| 110 | 124 | **756 130 114** | 0.70 | 190 | 110 | 2 | 753 141 014 |
| 160 | 174 | **756 130 117** | 1.00 | 216 | 210 | 3 | 753 141 017 |
| 225 | 239 | **756 130 120** | 1.54 | 281 | 315 | 3 | 753 141 020 |
| 315 | 329 | **756 130 123** | 3.51 | 339 | 435 | 3 | 753 141 023 |



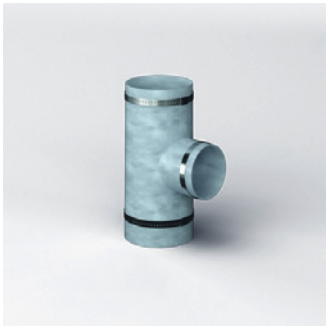
## HEAT-FIT™ - Jacket Tee 90° Equal for ecoFIT PE piping systems

- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

| d (mm) | D (mm) | Code | Weight (kg) |
|---|---|---|---|
| 110 | 124 | **756 200 114** | 0.80 |
| 160 | 174 | **756 200 117** | 1.30 |
| 225 | 239 | **756 200 120** | 2.11 |
| 315 | 329 | **756 200 123** | 4.80 |



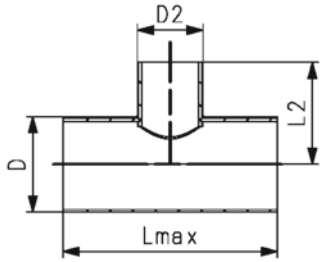

| L2 (mm) | Lmax (mm) | Required length metal strap per piece [cm] | Required quantity closures per piece [pieces] | for ecoFIT article |
|---|---|---|---|---|
| 181 | 362 | 165 | 3 | 753 208 614 |
| 231 | 462 | 210 | 3 | 753 208 617 |
| 323 | 586 | 315 | 3 | 753 208 620 |
| 468 | 836 | 435 | 3 | 753 208 623 |



## HEAT-FIT™ - Jacket Tee 90° Reduced

- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

| d (mm) | d2 (mm) | D (mm) | Code | Weight (kg) |
|---|---|---|---|---|
| 160 | 110 | 174 | **756 200 174** | 1.20 |
| 225 | 110 | 239 | **756 200 189** | 1.60 |
| 225 | 160 | 239 | **756 200 191** | 1.60 |
| 315 | 160 | 329 | **756 200 152** | 4.02 |
| 315 | 225 | 329 | **756 200 153** | 4.02 |



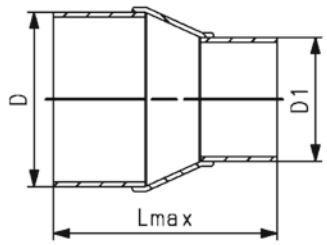

| d (mm) | D2 (mm) | L2 (mm) | Lmax (mm) | Required length metal strap per piece [cm] | Required quantity closures per piece [pieces] | for ecoFIT and ELGEF Plus article |
|---|---|---|---|---|---|---|
| 160 | 124 | 204 | 424 | 195 | 3 | 753 208 374 |
| 225 | 124 | 235 | 506 | 265 | 3 | 753 208 389 |
| 225 | 174 | 235 | 506 | 280 | 3 | 753 208 391 |
| 315 | 174 | 416 | 935 | 430 | 4 | 753 201 052 |
| 315 | 239 | 455 | 890 | 500 | 4 | 753 201 053 |



## HEAT-FIT™ - Jacket Reducer for ecoFIT PE piping systems

- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

| d (mm) | d2 (mm) | D (mm) | Code | Weight (kg) |
|---|---|---|---|---|
| 160 | 110 | 174 | **756 900 190** | 0.60 |
| 225 | 160 | 239 | **756 900 196** | 0.90 |
| 315 | 225 | 329 | **756 900 176** | 2.00 |



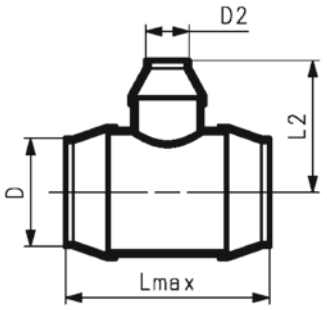

| d (mm) | D1 (mm) | Lmax (mm) | Required length metal strap per piece [cm] | Required quantity closures per piece [pieces] | for ecoFIT article |
|---|---|---|---|---|---|
| 160 | 124 | 260 | 125 | 2 | 753 908 690 |
| 225 | 174 | 330 | 175 | 2 | 753 908 696 |
| 315 | 239 | 457 | 250 | 2 | 753 908 176 |



## HEAT-FIT™ - Jacket Branch Saddle to d63

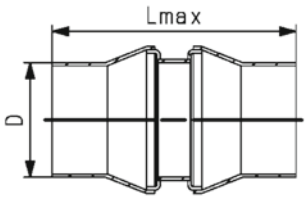
- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

| d (mm) | d2 (mm) | D (mm) | Code | Weight (kg) |
|---|---|---|---|---|
| 110 | 63 | 124 | **756 110 114** | 1.10 |
| 160 | 63 | 174 | **756 110 117** | 1.10 |
| 225 | 63 | 239 | **756 110 120** | 2.03 |
| 315 | 63 | 329 | **756 110 123** | 2.64 |




| d (mm) | D2 (mm) | L2 (mm) | Lmax (mm) | Required length metal strap per piece [cm] | Required quantity closures per piece [pieces] | for ecoFIT article |
|---|---|---|---|---|---|---|
| 110 | 71 | 199 | 354 | 180 | 4 | 193 137 067 |
| 160 | 71 | 212 | 328 | 210 | 4 | 193 137 097 |
| 225 | 71 | 257 | 475 | 490 | 6 | 193 137 127 |
| 315 | 71 | 302 | 566 | 650 | 6 | 193 137 157 |



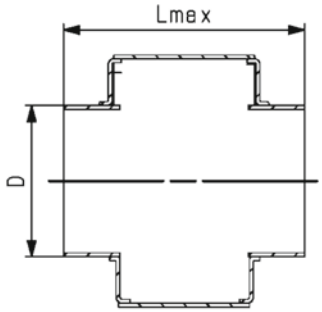



## HEAT-FIT™ - Fixpoint Jacket for ecoFIT PE piping systems

- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Valid for standard and long spigot bends
- Type approved for marine application by ABS, BV, DNV, LR and RINA

| d (mm) | D (mm) | Code | Weight (kg) | Lmax (mm) | Required length metal strap per piece [cm] | Required quantity closures per piece [pieces] | for ecoFIT article |
|---|---|---|---|---|---|---|---|
| 110 | 124 | **756 660 114** | 0.80 | 362 | 110 | 2 | 753 665 561 |
| 160 | 174 | **756 660 117** | 1.10 | 362 | 140 | 2 | 753 665 564 |
| 225 | 239 | **756 660 120** | 1.89 | 473 | 210 | 2 | 753 665 567 |
| 315 | 329 | **756 660 123** | 2.32 | 513 | 290 | 2 | 753 665 570 |

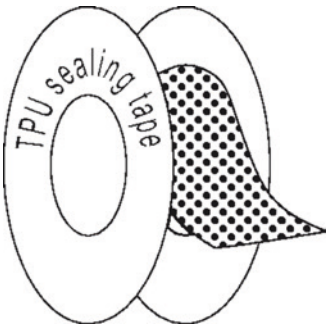





## HEAT-FIT™ - Jacket Flange Connection for ecoFIT PE piping systems

- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

| d (mm) | D (mm) | Code | Weight (kg) | Lmax (mm) | Required length metal strap per piece [cm] | Required quantity closures per piece [pieces] | for ecoFIT article |
|---|---|---|---|---|---|---|---|
| 110 | 124 | **756 700 114** | 1.40 | 283 | 190 | 3 | 753 798 314 & Steel Backing Flange |
| 160 | 174 | **756 700 117** | 1.80 | 299 | 240 | 3 | 753 798 317 & Steel Backing Flange |
| 225 | 239 | **756 700 120** | 2.50 | 480 | 365 | 3 | 753 798 320 & Steel Backing Flange |
| 315 | 329 | **756 700 123** | 3.26 | 513 | 495 | 3 | 753 798 323 & Steel Backing Flange |




## HEAT-FIT™ - Jacket Sealing Tape

- Necessary for the installation of the HEAT-FIT Jacket system on the ecoFIT piping system
- Consists of thermoplastic polyurethane (TPU)
- Sealing tape has to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

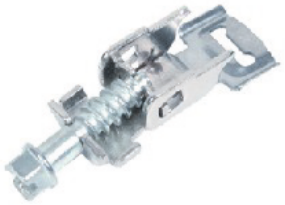
| Code | Weight (kg) | Length (m) |
|---|---|---|
| **756 170 301** | 0.20 | 25 |




## HEAT-FIT™ - Jacket Metal Strap

- Necessary for the installation of the HEAT-FIT Jacket system on the ecoFIT piping system
- Use as indicated in the installation manual
- Metal straps have to be ordered separately

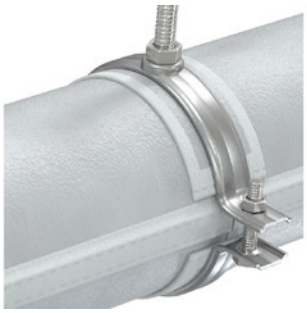
| Code | Weight (kg) | Length (m) | Width (mm) | Thickness (mm) | Material |
|---|---|---|---|---|---|
| **756 170 302** | 1.50 | 30 | 9 | 0.6mm | Stainless Steel |



## HEAT-FIT™ - Metal Closure

- Necessary for the installation of the HEAT-FIT Jacket system on the ecoFIT piping system
- Use as indicated in the installation manual
- One metal closure is required for each metal strap

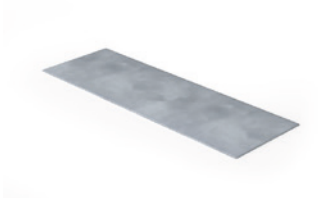
| Code | Quantity |
|---|---|
| **756 170 303** | 50 pcs. |



## HEAT-FIT™ - Fixpoint Jacket for ecoFIT PE piping systems

- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

| d (mm) | D (mm) | Code | Weight (kg) | Lmax (mm) |
|---|---|---|---|---|
| 110 | 125 | **756 170 314** | 0.03 | 70 |
| 160 | 175 | **756 170 317** | 0.04 | 70 |
| 225 | 240 | **756 170 320** | 0.06 | 70 |
| 315 | 330 | **756 170 323** | 0.30 | 70 |



# COOL-FIT 2.0




## Your benefits

+ **50 % faster installation**
+ **60% lighter than metal**
+ **100 % corrosion-free**
+ **Environmental Product Declaration (EPD)**

## Technical data

**Materials**
Media pipe: PE100
Insulation: GF-HE foam, halogen-free, closed-cell
Outer jacket: Pipe = HDPE, Fitting = GF-HE

**Dimensions range**
d32/D75 to d140/D200
(Push System: d16/D44 to d32/D61)
d = pressure pipe; D = outer jacket

**Jointing technology**
Electrofusion and mechanical connection (Push System)

**Operating pressure**
PN16 (SDR11)

**Operating temperature**
0°C to 60°C

The values above are to be considered for water, in case of use chemical addition, it is always recommended to contact GF specialist to an individual and more detailed assessment.

## COOL-FIT 2.0 pressure-temperature diagram

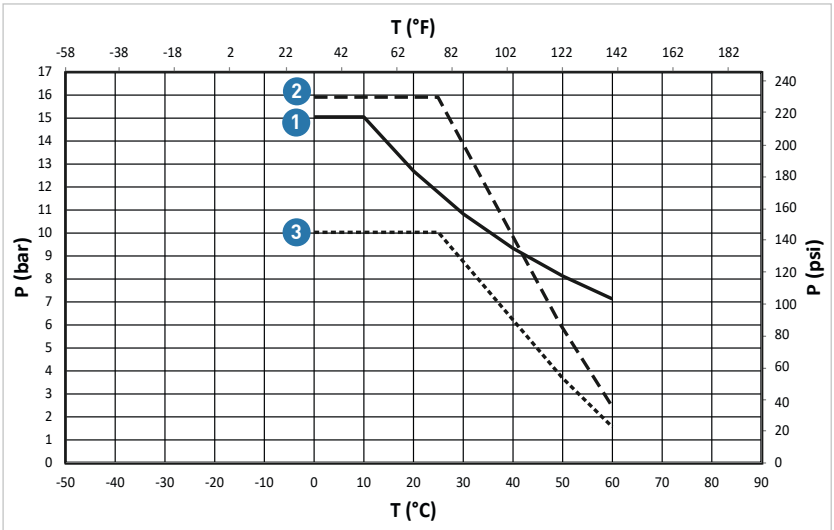
The pressure resistance for thermoplastic pipe for water is always specified at +20 °C. At higher temperatures allowance must be made for a lower maximum operating pressure.

The graphs show the maximum permissible pressure for COOL-FIT 2.0 pipe, fittings and valves at various temperatures, up to the maximum permissible media temperature of +60 °C. The table is based on an ambient temperature of +20 °C. A safety factor of 1.6 and a minimum lifespan of 25 years have been allowed for in all calculations.

### Pressure/temperature limits for COOL-FIT 2.0 fittings, pipe, valves – water coolant

Limits for COOL-FIT 2.0: 25-year values allowing for the safety factor (with water as the coolant).

In case of long-term operating pressure at temperatures above 47 °C, please contact your authorized GF Piping Systems representative.

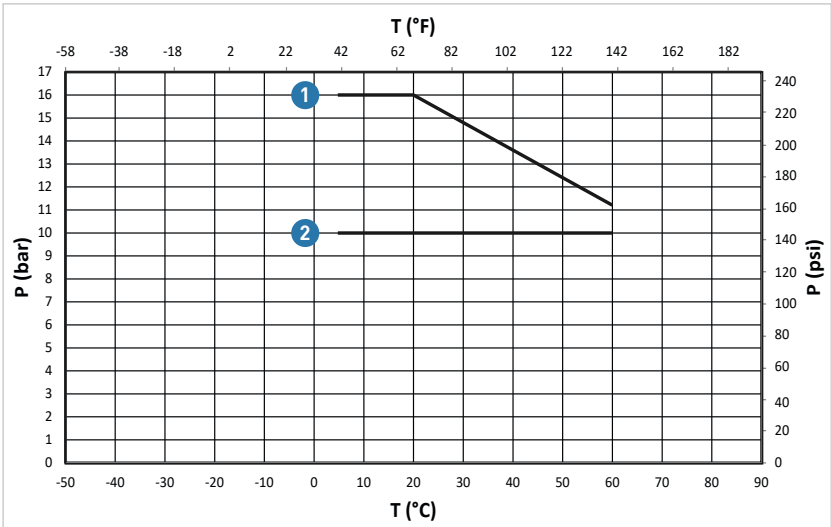



P Allowable pressure (bar, psi)
T Temperature (°C, °F)
C Safety factor
1 COOL-FIT pipe and fitting C=1.6, SDR11
2 COOL-FIT 2.0 ball valve PN16
3 COOL-FIT butterfly valve PN10

The butterfly valves used for the COOL-FIT 2.0 system exhibit lower pressure-temperature ratings than the rest of the components. If valves are used, it is necessary to refer to the data in the diagram above.

### Pressure/temperature limits for COOL-FIT 2.0 Push System fittings, pipe, valves – water coolant

Limits for COOL-FIT 2.0: 25-year values (with water as the coolant).




P Allowable pressure (bar, psi)
T Temperature (°C, °F)
1 COOL-FIT 2.0 Push System pipe, fitting and ball valve
2 COOL-FIT 2.0 Push System Flow control valve

## Influence of secondary refrigerants with antifreeze additives

At ambient temperatures below 0 °C, antifreeze must be used in the water to prevent it from freezing during a plant shut-down.

COOL-FIT 2.0 is generally resistant to secondary coolants such as glycol and brines. For some secondary coolants a reduction factor is necessary depending on the type and mixing ratio. The permissible operating pressure is corrected downwards from the pressure-temperature curve for water.

### Reduction factors[1]

| | |
|---|---|
| Inorganic salt solutions | F = 1 |
| Organic salt solutions | F = 1 |
| Glycol solutions (max. 50 %) | F = 1.1 |

For the calculation, the following formula is used:

$$P_{AF} = \frac{P_w}{AF}$$

$P_{AF}$ Permissible pressure with reduction factor
$P_W$ Permissible pressure for water
AF Reduction factor

[1] Valid for materials HD-PE, EPDM, PVC-U, metals

### Glycol solutions

COOL-FIT 2.0 / 2.0F can be used with glycol solutions with concentrations up to 50%. The chemical resistance of COOL-FIT 2.0 systems is suitable for the following antifreeze types:

| Brand name | Hersteller | Typ |
|---|---|---|
| Antifrogen N | Clariant | Ethylene glycol |
| Antifrogen L | Clariant | Propylene glycol |
| Showbrine Blue Showa standard EG brine | Showa Brine | Ethylene glycol |
| Showbrine Blue Showa trial EC brine | Showa Brine | Ethylene glycol |
| Tyfocor L | Tyfo | Propylene glycol |
| Tyfocor | Tyfo | Ethylene glycol |
| DOWFROST | DOW | Propylene glycol |
| Zytrec FC | Arteco | Propylene glycol |
| Zytrec LC | Arteco | Propylene glycol |
| Zytrec MC | Arteco | Propylene glycol |
| Neutrogel Neo | Climalife Dehon | Ethylene glycol |
| Friogel Neo | Climalife Dehon | Propylene glycol |
| DOWTHERM SR-1 | DOW | Ethylene glycol |

When using other coolants, compatibility with COOL-FIT 2.0 should be clarified with GF Piping Systems.

Example – glycol dissolved in water

For water-glycol mixture ≤ 50%, the reduction factor for the pressure-temperature diagram is 1.1. Thus, at +10 °C, with a minimum life of 25 years, the maximum allowable working pressure is reduced as follows:

$$P_{AF} = \frac{15\ \text{bar}}{1.1} = 13.6\ \text{bar}$$

## Organic salt solutions

These media are usually potassium formates or potassium acetates: aqueous solutions with low viscosity at low temperatures. COOL-FIT 2.0 can be used with the media below. The manufacturer's instructions must be followed.

| Brand name | Manufacturer | Type |
|---|---|---|
| Antifrogen KF | Clariant | Brine |
| Zytrec S-55 | Frigol | Brine |
| Temper | Temper | Brine |
| Hycool | Addcon | Brine |

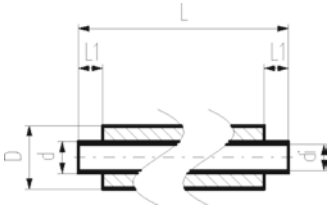
For detailed information on resistance and reduction factors, see Planning Fundamentals "Material selection – Chemical resistance".

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# COOL-FIT 2.0 Pipes and Fittings






## COOL-FIT 2.0 Pipe

**Model:**

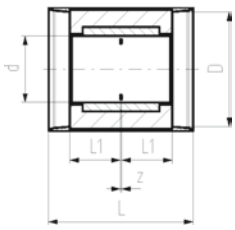
- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- With free ends for electrofusion

**Note:**

bigger dimensions available via COOL-FIT 4.0 product range

| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg/m) | di (mm) | L (mm) | L1 (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 75 | 25 | 11 | 16 | **738 174 108** | 1.140 | 26.2 | 5000 | 36 | 1 |
| 40 | 90 | 32 | 11 | 16 | **738 174 109** | 1.534 | 32.6 | 5000 | 40 | 1 ¼ |
| 50 | 90 | 40 | 11 | 16 | **738 174 110** | 1.722 | 40.8 | 5000 | 44 | 1 ½ |
| 63 | 110 | 50 | 11 | 16 | **738 174 111** | 2.711 | 51.4 | 5000 | 48 | 2 |
| 75 | 125 | 65 | 11 | 16 | **738 174 112** | 3.405 | 61.4 | 5000 | 55 | 2 ½ |
| 90 | 140 | 80 | 11 | 16 | **738 174 113** | 4.320 | 73.5 | 5000 | 62 | 3 |
| 110 | 160 | 100 | 11 | 16 | **738 174 114** | 5.692 | 90.0 | 5000 | 72 | 4 |
| 140 | 200 | 125 | 11 | 16 | **738 174 116** | 9.021 | 114.6 | 5000 | 84 | 5 |






## COOL-FIT 2.0 Coupler

**Model:**

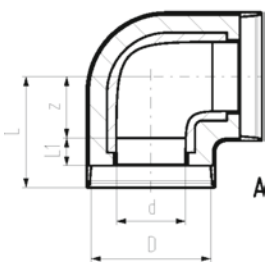
- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- Electrofusion fitting with integrated sealing lip, for a moisture-proof and vapour tight sealing

**Note:**

bigger dimensions available via COOL-FIT 4.0 product range

| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 32 | 75 | 25 | 11 | 16 | **738 914 108** | 0.092 | 113 | 36 | 5 |
| 40 | 90 | 32 | 11 | 16 | **738 914 109** | 0.126 | 121 | 40 | 3 |
| 50 | 90 | 40 | 11 | 16 | **738 914 110** | 0.160 | 129 | 44 | 3 |
| 63 | 110 | 50 | 11 | 16 | **738 914 111** | 0.237 | 137 | 48 | 3 |
| 75 | 125 | 65 | 11 | 16 | **738 914 112** | 0.339 | 152 | 55 | 3 |
| 90 | 140 | 80 | 11 | 16 | **738 914 113** | 0.476 | 166 | 62 | 4 |
| 110 | 160 | 100 | 11 | 16 | **738 914 114** | 0.778 | 188 | 72 | 4 |
| 140 | 200 | 125 | 11 | 16 | **738 914 116** | 1.097 | 210 | 84 | 3 |



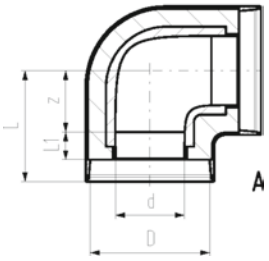

## COOL-FIT 2.0 Elbow 90°

**Model:**

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a moisture-proof and vapour tight sealing

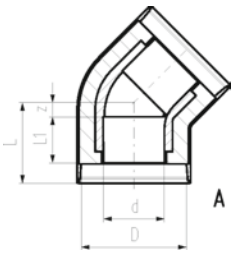
| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | z (mm) | Type |
|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 75 | 25 | 11 | 16 | **738 104 108** | 0.127 | 75 | 36 | 20 | A |
| 40 | 90 | 32 | 11 | 16 | **738 104 109** | 0.185 | 82 | 40 | 23 | A |
| 50 | 90 | 40 | 11 | 16 | **738 104 110** | 0.242 | 93 | 44 | 30 | A |
| 63 | 110 | 50 | 11 | 16 | **738 104 111** | 0.384 | 101 | 48 | 34 | A |

table continued on the next page




| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | z (mm) | Type |
|---|---|---|---|---|---|---|---|---|---|---|
| 75 | 125 | 65 | 11 | 16 | **738 104 112** | 0.510 | 114 | 55 | 40 | A |
| 90 | 140 | 80 | 11 | 16 | **738 104 113** | 0.960 | 144 | 62 | 63 | A |
| 110 | 160 | 100 | 11 | 16 | **738 104 114** | 1.406 | 168 | 72 | 77 | A |
| 140 | 200 | 125 | 11 | 16 | **738 104 166** | 3.454 | 190 | 84 | 87 | A |



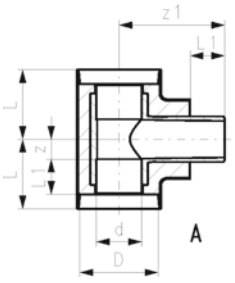

## COOL-FIT 2.0 Elbow 45°

**Model:**

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a moisture-proof and vapour tight sealing

| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | z (mm) | Type |
|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 75 | 25 | 11 | 16 | **738 154 108** | 0.101 | 66 | 36 | 11 | A |
| 40 | 90 | 32 | 11 | 16 | **738 154 109** | 0.143 | 70 | 40 | 11 | A |
| 50 | 90 | 40 | 11 | 16 | **738 154 110** | 0.206 | 76 | 44 | 13 | A |
| 63 | 110 | 50 | 11 | 16 | **738 154 111** | 0.307 | 83 | 48 | 16 | A |
| 75 | 125 | 65 | 11 | 16 | **738 154 112** | 0.407 | 92 | 55 | 18 | A |
| 90 | 140 | 80 | 11 | 16 | **738 154 113** | 0.686 | 111 | 62 | 30 | A |
| 110 | 160 | 100 | 11 | 16 | **738 154 114** | 1.123 | 132 | 72 | 41 | A |
| 140 | 200 | 125 | 11 | 16 | **738 154 166** | 2.775 | 151 | 84 | 48 | A |



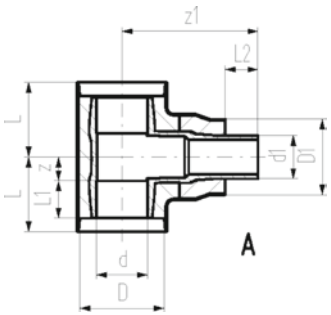

## COOL-FIT 2.0 Tee 90° equal

**Model:**

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a moisture-proof and vapour tight sealing

| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | z (mm) | z1 (mm) | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 75 | 25 | 11 | 16 | **738 204 108** | 0.154 | 73 | 36 | 18 | 98.0 | A |
| 40 | 90 | 32 | 11 | 16 | **738 204 109** | 0.230 | 81 | 40 | 22 | 112.0 | A |
| 50 | 90 | 40 | 11 | 16 | **738 204 110** | 0.306 | 88 | 44 | 25 | 125.0 | A |
| 63 | 110 | 50 | 11 | 16 | **738 204 111** | 0.492 | 97 | 48 | 30 | 147.0 | A |
| 75 | 125 | 65 | 11 | 16 | **738 204 112** | 0.673 | 110 | 55 | 36 | 140.0 | A |
| 90 | 140 | 80 | 11 | 16 | **738 204 113** | 1.022 | 124 | 62 | 43 | 161.0 | A |
| 110 | 160 | 100 | 11 | 16 | **738 204 114** | 1.751 | 148 | 72 | 57 | 184.0 | A |
| 140 | 200 | 125 | 11 | 16 | **738 204 166** | 4.390 | 169 | 84 | 66 | 257.3 | A |






## COOL-FIT 2.0 Tee 90° reduced

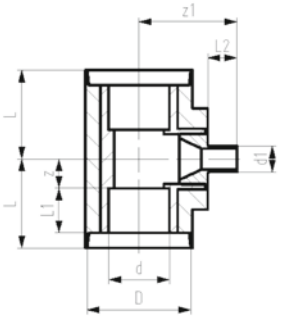
**Model:**

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a moisture-proof and vapour tight sealing. Branch with free pipe end.

| d (mm) | d1 (mm) | D (mm) | D1 (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 75 | 63 | 125 | 110 | 65 | 11 | 16 | **738 204 218** | 0.746 |
| 90 | 63 | 140 | 110 | 80 | 11 | 16 | **738 204 222** | 1.096 |
| 90 | 75 | 140 | 125 | 80 | 11 | 16 | **738 204 223** | 1.133 |
| 110 | 63 | 160 | 110 | 100 | 11 | 16 | **738 204 227** | 1.746 |
| 110 | 75 | 160 | 125 | 100 | 11 | 16 | **738 204 228** | 1.782 |
| 110 | 90 | 160 | 140 | 100 | 11 | 16 | **738 204 229** | 1.848 |
| 140 | 63 | 200 | 110 | 125 | 11 | 16 | **738 204 240** | 3.685 |
| 140 | 75 | 200 | 125 | 125 | 11 | 16 | **738 204 241** | 3.724 |
| 140 | 90 | 200 | 140 | 125 | 11 | 16 | **738 204 242** | 3.807 |
| 140 | 110 | 200 | 160 | 125 | 11 | 16 | **738 204 243** | 3.990 |

| d (mm) | d1 (mm) | L (mm) | L1 (mm) | L2 (mm) | z (mm) | z1 (mm) | Type |
|---|---|---|---|---|---|---|---|
| 75 | 63 | 110 | 55 | 48 | 36 | 200 | A |
| 90 | 63 | 124 | 62 | 48 | 42 | 227 | A |
| 90 | 75 | 124 | 62 | 55 | 42 | 227 | A |
| 110 | 63 | 148 | 72 | 48 | 57 | 245 | A |
| 110 | 75 | 148 | 72 | 55 | 57 | 245 | A |
| 110 | 90 | 148 | 72 | 62 | 57 | 245 | A |
| 140 | 63 | 169 | 84 | 48 | 66 | 221 | A |
| 140 | 75 | 169 | 84 | 55 | 66 | 231 | A |
| 140 | 90 | 169 | 84 | 62 | 66 | 234 | A |
| 140 | 110 | 169 | 84 | 72 | 66 | 243 | A |






## COOL-FIT 2.0 Tee 90° reduced short

**Model:**

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a water and vapour tight sealing
- Space-optimized branch: sealing lip of Fitting Typ A that joins to the branch, needs to be cut and adhesive ring be use

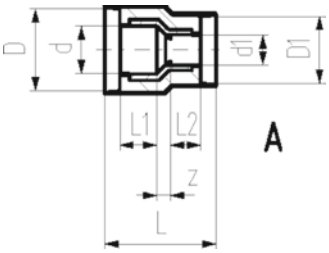
| d (mm) | d1 (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) | z (mm) | z1 (mm) | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | 32 | 90 | 32 | 11 | 16 | **738 204 506** | 0.250 | 81 | 40 | 36 | 22 | 108 | A |
| 50 | 32 | 90 | 40 | 11 | 16 | **738 204 509** | 0.340 | 88 | 44 | 36 | 25 | 117 | A |
| 63 | 32 | 110 | 50 | 11 | 16 | **738 204 512** | 0.550 | 97 | 48 | 36 | 30 | 135 | A |
| 75 | 32 | 125 | 65 | 11 | 16 | **738 204 515** | 0.750 | 110 | 55 | 36 | 36 | 121 | A |
| 90 | 32 | 140 | 80 | 11 | 16 | **738 204 519** | 1.150 | 124 | 62 | 36 | 43 | 135 | A |
| 110 | 32 | 160 | 100 | 11 | 16 | **738 204 524** | 2.000 | 148 | 72 | 36 | 57 | 148 | A |

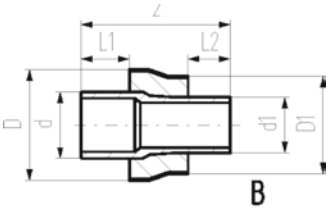


A



B



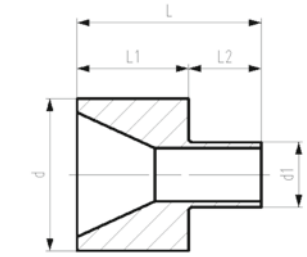

## COOL-FIT 2.0 Reducer

**Model:**

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a moisture-proof and vapour tight sealing
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)

| d (mm) | d1 (mm) | D (mm) | D1 (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) | z (mm) | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | 32 | 90 | 75 | 32 | 11 | 16 | **738 904 206** | 0.125 | 131 | 40 | 36 | 17 | A |
| 50 | 32 | 90 | 75 | 40 | 11 | 16 | **738 904 209** | 0.154 | 139 | 44 | 36 | 21 | A |
| 50 | 40 | 90 | 90 | 40 | 11 | 16 | **738 904 210** | 0.153 | 137 | 44 | 40 | 15 | A |
| 63 | 32 | 110 | 75 | 50 | 11 | 16 | **738 904 212** | 0.198 | 148 | 48 | 36 | 26 | A |
| 63 | 40 | 110 | 90 | 50 | 11 | 16 | **738 904 213** | 0.221 | 147 | 48 | 40 | 21 | A |
| 63 | 50 | 110 | 90 | 50 | 11 | 16 | **738 904 214** | 0.219 | 147 | 48 | 44 | 17 | A |
| 90 | 63 | 140 | 110 | 80 | 11 | 16 | **738 904 222** | 0.464 | 187 | 62 | 48 | 39 | A |
| 110 | 90 | 160 | 140 | 100 | 11 | 16 | **738 904 229** | 0.799 | 214 | 72 | 62 | 42 | A |
| 75 | 63 | 125 | 110 | 65 | 11 | 16 | **738 904 318** | 0.244 | | 55 | 48 | 170 | B |
| 90 | 63 | 140 | 110 | 80 | 11 | 16 | **738 904 322** | 0.360 | | 62 | 48 | 190 | B |
| 90 | 75 | 140 | 125 | 80 | 11 | 16 | **738 904 323** | 0.395 | | 62 | 55 | 190 | B |
| 110 | 63 | 160 | 110 | 100 | 11 | 16 | **738 904 327** | 0.523 | | 72 | 48 | 205 | B |
| 110 | 75 | 160 | 125 | 100 | 11 | 16 | **738 904 328** | 0.553 | | 72 | 55 | 205 | B |
| 110 | 90 | 160 | 140 | 100 | 11 | 16 | **738 904 329** | 0.599 | | 72 | 62 | 205 | B |
| 140 | 63 | 200 | 110 | 125 | 11 | 16 | **738 904 340** | 0.917 | | 84 | 48 | 225 | B |
| 140 | 75 | 200 | 125 | 125 | 11 | 16 | **738 904 341** | 0.997 | | 84 | 55 | 237 | B |
| 140 | 90 | 200 | 140 | 125 | 11 | 16 | **738 904 342** | 1.039 | | 84 | 62 | 238 | B |
| 140 | 110 | 200 | 160 | 125 | 11 | 16 | **738 904 343** | 1.051 | | 84 | 72 | 233 | B |





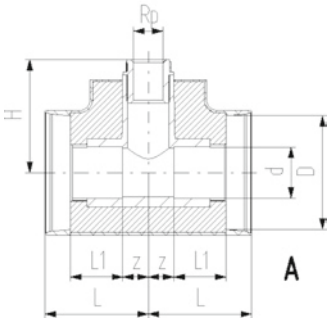

## COOL-FIT 2.0 Reducer short

**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Space-optimized branch: sealing lip of Fitting Typ A that joins to the branch, needs to be cut and adhesive ring be use

| d (mm) | d1 (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 40 | 32 | 32 | 11 | 16 | **738 900 506** | 0.030 | 76 | 40 | 36 |
| 50 | 32 | 40 | 11 | 16 | **738 900 509** | 0.060 | 80 | 44 | 36 |
| 50 | 40 | 40 | 11 | 16 | **738 900 510** | 0.060 | 84 | 44 | 40 |
| 63 | 32 | 50 | 11 | 16 | **738 900 512** | 0.100 | 84 | 48 | 36 |
| 63 | 40 | 50 | 11 | 16 | **738 900 513** | 0.100 | 88 | 48 | 40 |
| 63 | 50 | 50 | 11 | 16 | **738 900 514** | 0.100 | 92 | 48 | 44 |
| 75 | 32 | 65 | 11 | 16 | **738 900 515** | 0.170 | 91 | 55 | 36 |
| 90 | 32 | 80 | 11 | 16 | **738 900 519** | 0.280 | 98 | 62 | 36 |
| 110 | 32 | 100 | 11 | 16 | **738 900 524** | 0.500 | 108 | 72 | 36 |




## COOL-FIT 2.0 Installation fitting type 313 Rp

**Model:**

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- With threaded branch for sensors (i.e temperature, pressure)
- A: Electrofusion Fitting with integrated sealing lip, for a moisture-proof and vapour tight sealing

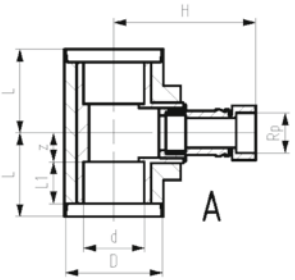
| d (mm) | D (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | H (mm) | L (mm) | L1 (mm) | z (mm) | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 75 | Rp | ½ | 25 | 11 | 16 | **738 313 408** | 0.138 | 75 | 73 | 36 | 16 | A |
| 40 | 90 | Rp | ½ | 32 | 11 | 16 | **738 313 409** | 0.216 | 85 | 81 | 40 | 21 | A |
| 40 | 90 | Rp | ¾ | 32 | 11 | 16 | **738 313 459** | 0.216 | 88 | 81 | 40 | 21 | A |
| 50 | 90 | Rp | ½ | 40 | 11 | 16 | **738 313 410** | 0.308 | 94 | 88 | 44 | 24 | A |
| 50 | 90 | Rp | ¾ | 40 | 11 | 16 | **738 313 460** | 0.307 | 97 | 88 | 44 | 24 | A |
| 63 | 110 | Rp | ½ | 50 | 11 | 16 | **738 313 411** | 0.493 | 113 | 97 | 48 | 29 | A |
| 63 | 110 | Rp | ¾ | 50 | 11 | 16 | **738 313 461** | 0.492 | 116 | 97 | 48 | 29 | A |
| 75 | 125 | Rp | ½ | 65 | 11 | 16 | **738 313 412** | 0.678 | 99 | 110 | 55 | 35 | A |
| 75 | 125 | Rp | ¾ | 65 | 11 | 16 | **738 313 462** | 0.677 | 102 | 110 | 55 | 35 | A |
| 90 | 140 | Rp | ½ | 80 | 11 | 16 | **738 313 413** | 1.025 | 113 | 123 | 62 | 42 | A |
| 90 | 140 | Rp | ¾ | 80 | 11 | 16 | **738 313 463** | 1.023 | 116 | 123 | 62 | 42 | A |
| 110 | 160 | Rp | ½ | 100 | 11 | 16 | **738 313 414** | 1.765 | 128 | 148 | 72 | 56 | A |
| 110 | 160 | Rp | ¾ | 100 | 11 | 16 | **738 313 464** | 1.763 | 131 | 148 | 72 | 56 | A |
| 140 | 200 | Rp | ½ | 125 | 11 | 16 | **738 313 436** | 3.747 | 190 | 169 | 84 | 66 | A |
| 140 | 200 | Rp | ¾ | 125 | 11 | 16 | **738 313 486** | 3.747 | 190 | 169 | 84 | 66 | A |

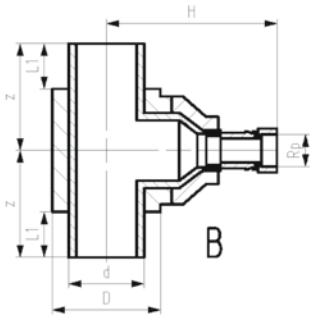
# COOL-FIT 2.0 Transition Fittings









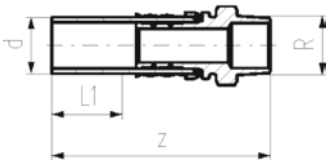

## COOL-FIT 2.0 Transition Tee90° PE/brass
## With female thread Rp

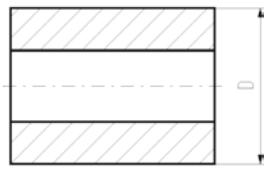
**Model:**

- Pre-insulated, PE100, SDR11, metric
- Brass CuZn40Pb2 with female thread Rp
- Insulation made from GF HE foam
- Impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a water and vapour tight sealing
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)

| d (mm) | D (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | H (mm) | z (mm) | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 110 | Rp | 2 | 50 | 11 | 16 | **738 954 061** | 1.700 | 97 | 48 | 212 | 29 | A |
| 75 | 125 | Rp | 2 | 65 | 11 | 16 | **738 954 062** | 1.900 | 110 | 55 | 193 | 36 | A |
| 90 | 140 | Rp | 2 | 80 | 11 | 16 | **738 954 063** | 2.300 | 124 | 62 | 210 | 43 | A |
| 110 | 160 | Rp | 2 | 100 | 11 | 16 | **738 954 064** | 3.100 | 148 | 72 | 223 | 57 | A |
| 140 | 200 | Rp | 2 | 125 | 11 | 16 | **738 954 066** | 4.700 | | 84 | 316 | 447 | B |





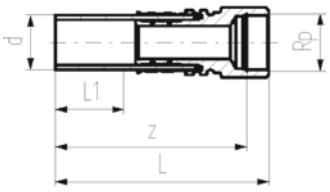

## COOL-FIT 2.0 Adaptor fitting PE/stainless steel
## With male thread R

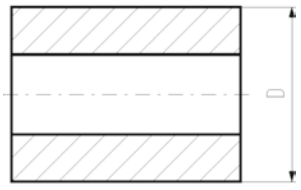
**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Stainless steel 1.4404 / 316L with male thread R
- Gasket: O-ring EPDM
- Including Insulation made from NBR foam

| d (mm) | D (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 70 | R | ½ | 25 | 11 | 16 | **738 944 508** | 0.194 | 36 | 130 |
| 32 | 70 | R | ¾ | 25 | 11 | 16 | **738 944 518** | 0.202 | 36 | 134 |
| 32 | 70 | R | 1 | 25 | 11 | 16 | **738 944 528** | 0.211 | 36 | 134 |
| 40 | 78 | R | 1 ¼ | 32 | 11 | 16 | **738 944 509** | 0.595 | 40 | 156 |
| 50 | 88 | R | 1 ½ | 40 | 11 | 16 | **738 944 510** | 0.954 | 44 | 168 |
| 63 | 101 | R | 2 | 50 | 11 | 16 | **738 944 511** | 1.381 | 48 | 179 |






## COOL-FIT 2.0 Adaptor fitting PE/stainless steel
## With female thread Rp

**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Stainless steel 1.4404 / 316L with femal thread Rp
- Gasket: O-ring EPDM
- Including Insulation made from NBR foam

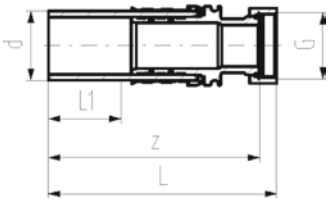
| d (mm) | D (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 70 | Rp | ½ | 25 | 11 | 16 | **738 944 008** | 0.201 | 132 | 36 | 118 |
| 32 | 70 | Rp | ¾ | 25 | 11 | 16 | **738 944 018** | 0.226 | 132 | 36 | 116 |
| 32 | 70 | Rp | 1 | 25 | 11 | 16 | **738 944 028** | 0.251 | 132 | 36 | 115 |
| 40 | 78 | Rp | 1 ¼ | 32 | 11 | 16 | **738 944 009** | 0.626 | 157 | 40 | 141 |
| 50 | 88 | Rp | 1 ½ | 40 | 11 | 16 | **738 944 010** | 0.670 | 150 | 44 | 128 |
| 63 | 101 | Rp | 2 | 50 | 11 | 16 | **738 944 011** | 1.170 | 164 | 48 | 140 |

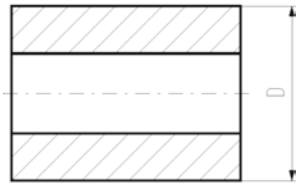


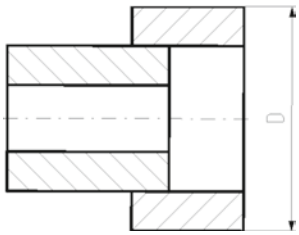
## COOL-FIT 2.0 Adaptor fitting PE/stainless steel
## With loose union nut G

**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Stainless steel 1.4404 / 316L with female thread G
- Including flat seal EPDM
- Including Insulation made from NBR foam



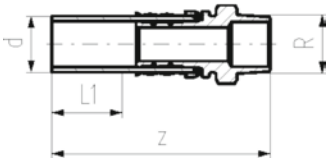

| d (mm) | D (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 70 | G | ½ | 25 | 11 | 16 | **738 944 308** | 0.204 | 135 | 36 | 126 |
| 32 | 70 | G | ¾ | 25 | 11 | 16 | **738 944 318** | 0.219 | 135 | 36 | 129 |
| 32 | 70 | G | 1 | 25 | 11 | 16 | **738 944 328** | 0.317 | 135 | 36 | 129 |
| 40 | 78 | G | 1 ¼ | 32 | 11 | 16 | **738 944 309** | 0.538 | 155 | 40 | 148 |
| 40 | 116 | G | 1 ½ | 32 | 11 | 16 | **738 944 319** | 0.615 | 157 | 40 | 148 |
| 50 | 88 | G | 1 ½ | 40 | 11 | 16 | **738 944 310** | 0.758 | 164 | 44 | 154 |
| 63 | 101 | G | 2 | 50 | 11 | 16 | **738 944 311** | 1.237 | 186 | 48 | 170 |

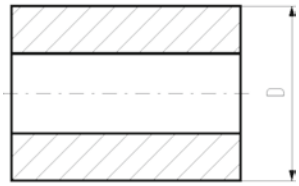


## COOL-FIT 2.0 Adaptor fitting PE/brass
## With male thread R

**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Brass CuZn40Pb2 with male thread R
- Gasket: O-ring EPDM
- Including Insulation made from NBR foam



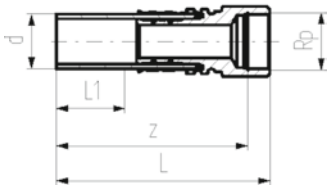

| d (mm) | D (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 70 | R | ½ | 25 | 11 | 16 | **738 954 508** | 0.203 | 36 | 130 |
| 32 | 70 | R | ¾ | 25 | 11 | 16 | **738 954 518** | 0.211 | 36 | 134 |
| 32 | 70 | R | 1 | 25 | 11 | 16 | **738 954 528** | 0.221 | 36 | 134 |
| 40 | 78 | R | 1 ¼ | 32 | 11 | 16 | **738 954 509** | 0.631 | 40 | 156 |
| 50 | 88 | R | 1 ½ | 40 | 11 | 16 | **738 954 510** | 1.013 | 44 | 168 |
| 63 | 101 | R | 2 | 50 | 11 | 16 | **738 954 511** | 1.467 | 48 | 179 |

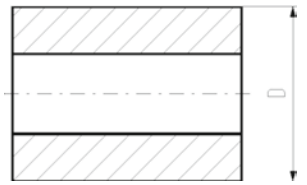


## COOL-FIT 2.0 Adaptor fitting PE/brass
## With female thread Rp

**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Brass CuZn40Pb2 with female tread Rp
- Gasket: O-ring EPDM
- Including Insulation made from NBR foam



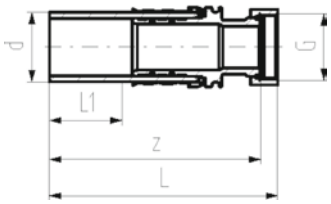

| d (mm) | D (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 70 | Rp | ½ | 25 | 11 | 16 | **738 954 008** | 0.210 | 132 | 36 | 118 |
| 32 | 70 | Rp | ¾ | 25 | 11 | 16 | **738 954 018** | 0.237 | 132 | 36 | 116 |
| 32 | 70 | Rp | 1 | 25 | 11 | 16 | **738 954 028** | 0.264 | 132 | 36 | 115 |
| 40 | 78 | Rp | 1 ¼ | 32 | 11 | 16 | **738 954 009** | 0.667 | 157 | 40 | 141 |
| 50 | 88 | Rp | 1 ½ | 40 | 11 | 16 | **738 954 010** | 0.713 | 150 | 44 | 128 |
| 63 | 101 | Rp | 2 | 50 | 11 | 16 | **738 954 011** | 1.246 | 164 | 48 | 140 |

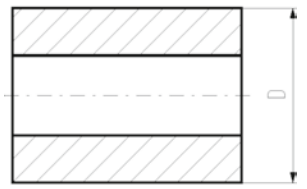


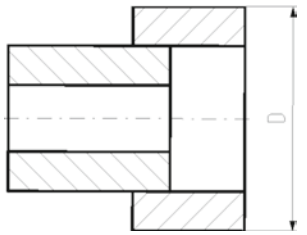
## COOL-FIT 2.0 Adaptor fitting PE/brass
## With loose union nut G

**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Brass CuZn40Pb2 with female thread G
- Including flat seal EPDM
- Including Insulation made from NBR foam

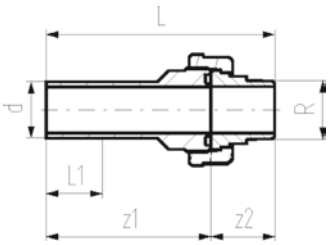


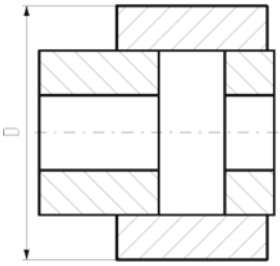




| d (mm) | D (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 70 | G | ¾ | 25 | 11 | 16 | **738 954 318** | 0.224 | 135 | 36 | 126 |
| 32 | 70 | G | 1 | 25 | 11 | 16 | **738 954 328** | 0.263 | 135 | 36 | 129 |
| 40 | 78 | G | 1 ¼ | 32 | 11 | 16 | **738 954 309** | 0.569 | 155 | 40 | 148 |
| 40 | 116 | G | 1 ½ | 32 | 11 | 16 | **738 954 319** | 0.650 | 157 | 40 | 148 |
| 50 | 88 | G | 1 ½ | 40 | 11 | 16 | **738 954 310** | 0.801 | 164 | 44 | 154 |
| 63 | 101 | G | 2 | 50 | 11 | 16 | **738 954 311** | 1.310 | 186 | 48 | 170 |





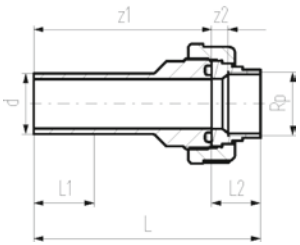

## COOL-FIT 2.0 Adaptor union PE/stainless steel
## With male thread R

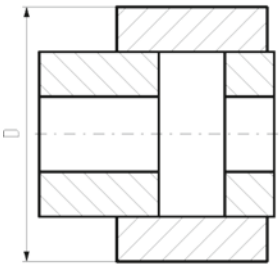
**Model:**

- Union bush: Spigot fitting PE100 SDR11, metric with free end
- Union End: Stainless steel 1.4404 / 316L with male thread R
- Gasket: O-ring EPDM No. 748 410 008-011
- Union Nut: PEGF25
- Including Insulation made from NBR foam

| d (mm) | D (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 108 | R | 1 | 25 | 11 | 16 | **738 544 708** | 0.310 | 147 | 36 | 107 | 40 |
| 40 | 116 | R | 1 ¼ | 32 | 11 | 16 | **738 544 709** | 0.538 | 163 | 40 | 117 | 46 |
| 50 | 126 | R | 1 ½ | 40 | 11 | 16 | **738 544 710** | 0.660 | 172 | 44 | 124 | 48 |
| 63 | 139 | R | 2 | 50 | 11 | 16 | **738 544 711** | 1.073 | 191 | 48 | 136 | 55 |





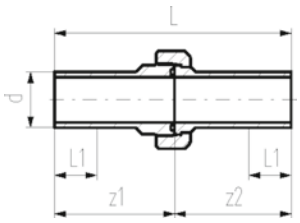

## COOL-FIT 2.0 Adaptor union PE/stainless steel
## With female thread Rp

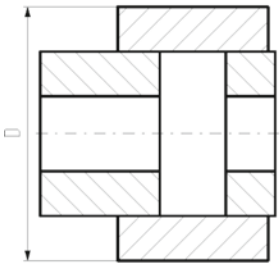
**Model:**

- Union bush: Spigot fitting PE100 SDR11, metric with free end
- Union End: Stainless steel 1.4404 / 316L with female thread Rp
- Gasket: O-ring EPDM No. 748 410 008-011
- Union Nut: PEGF25
- Including Insulation made from NBR foam

| d (mm) | D (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 108 | Rp | 1 | 25 | 11 | 16 | **738 544 208** | 0.270 | 136 | 36 | 29 | 107 | 10 |
| 40 | 116 | Rp | 1 ¼ | 32 | 11 | 16 | **738 544 209** | 0.433 | 150 | 40 | 33 | 118 | 11 |
| 50 | 126 | Rp | 1 ½ | 40 | 11 | 16 | **738 544 210** | 0.587 | 158 | 44 | 34 | 124 | 13 |
| 63 | 139 | Rp | 2 | 50 | 11 | 16 | **738 544 211** | 0.883 | 175 | 48 | 39 | 136 | 14 |





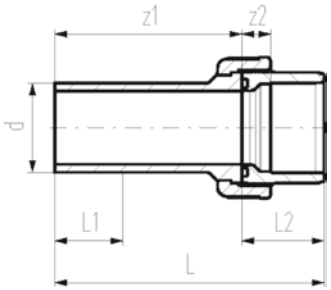

## COOL-FIT 2.0 Union PE/PE

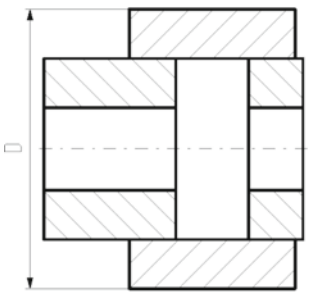
**Model:**

- Union bush: Spigot fitting PE100 SDR11, metric with free end
- Union End: Spigot fitting PE100 SDR11, metric with free end
- Gasket: O-ring EPDM No. 748 410 008-014
- Union Nut: PEGF25
- Including Insulation made from NBR foam

| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | L (mm) | L1 (mm) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 32 | 108 | 25 | 11 | 16 | **738 514 608** | 211 | 36 | 107 | 104 |
| 40 | 116 | 32 | 11 | 16 | **738 514 609** | 234 | 40 | 118 | 117 |
| 50 | 126 | 40 | 11 | 16 | **738 514 610** | 247 | 44 | 124 | 123 |
| 63 | 139 | 50 | 11 | 16 | **738 514 611** | 268 | 48 | 136 | 132 |
| 75 | 151 | 65 | 11 | 10 | **738 514 612** | 303 | 55 | 154 | 149 |
| 90 | 166 | 80 | 11 | 10 | **738 514 613** | 293 | 62 | 149 | 144 |
| 110 | 186 | 100 | 11 | 10 | **738 514 614** | 321 | 72 | 162 | 159 |






## COOL-FIT 2.0 Adaptor Union PE/ABS

**Model:**

- Union bush: ABS Solvent cement socket
- Union End: Spigot fitting PE100 SDR11, metric with free end
- Gasket: O-ring EPDM No. 748 410 008-014
- Union Nut: ABS
- Including Insulation made from NBR foam

| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 108 | 25 | 11 | 10 | **738 514 708** | 0.117 | 137 | 36 | 33 | 104 | 11 |
| 40 | 116 | 32 | 11 | 10 | **738 514 709** | 0.196 | 156 | 40 | 39 | 117 | 13 |
| 50 | 126 | 40 | 11 | 10 | **738 514 710** | 0.268 | 169 | 44 | 46 | 123 | 15 |
| 63 | 139 | 50 | 11 | 10 | **738 514 711** | 0.427 | 190 | 48 | 58 | 132 | 21 |
| 75 | 151 | 65 | 11 | 10 | **738 514 712** | 0.730 | 211 | 55 | 62 | 149 | 18 |
| 90 | 166 | 80 | 11 | 10 | **738 514 713** | 0.974 | 215 | 62 | 69 | 146 | 19 |
| 110 | 186 | 100 | 11 | 10 | **738 514 714** | 1.478 | 235 | 72 | 72 | 163 | 11 |

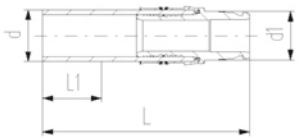
## COOL-FIT 2.0 Adaptor fitting PE/iFIT

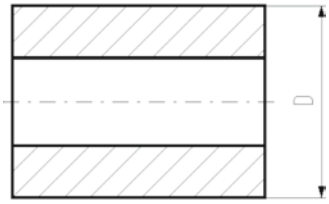


**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- iFIT module stainless steel 1.4404 / 316L
- Including insulation half shells

| d (mm) | D (mm) | d1 (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 70 | 25-32 | 25 | 11 | 10 | **738 944 108** | 0.229 | 132 | 36 | 80 |



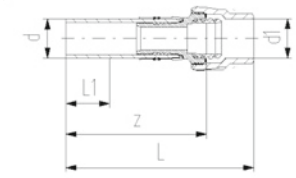

## COOL-FIT 2.0 Adaptor fitting PE/Sanipex MT

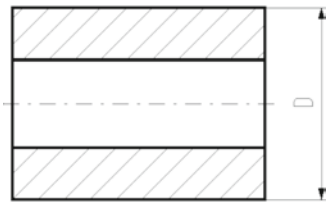


**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Sanipex MT adaptor brass CuZn40Pb2
- Including Insulation made from NBR foam

| d (mm) | D (mm) | DN (mm) | PN (bar) | SDR | d1 (mm) | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 86 | 25 | 10 | 11 | 32 | **738 954 118** | 0.441 | 174 | 36 | 101 | 135 |



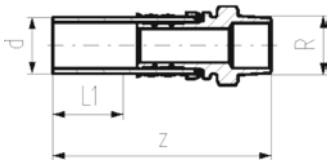





## COOL-FIT 2.0/4.0 Adaptor fitting PE/stainless steel
## With male thread R

**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Stainless steel 1.4404 / 316L with male thread R
- Gasket: O-ring EPDM



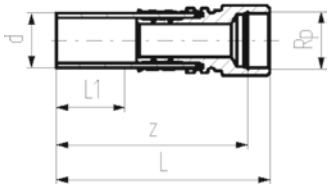

| d (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 32 | R | ½ | 25 | 11 | 16 | **738 940 508** | 0.179 | 36 | 130 |
| 32 | R | ¾ | 25 | 11 | 16 | **738 940 518** | 0.187 | 36 | 134 |
| 32 | R | 1 | 25 | 11 | 16 | **738 940 528** | 0.196 | 36 | 134 |
| 40 | R | 1 ¼ | 32 | 11 | 16 | **738 940 509** | 0.572 | 40 | 156 |
| 50 | R | 1 ½ | 40 | 11 | 16 | **738 940 510** | 0.927 | 44 | 168 |
| 63 | R | 2 | 50 | 11 | 16 | **738 940 511** | 1.347 | 48 | 179 |



## COOL-FIT 2.0/4.0 Adaptor fitting PE/stainless steel
## With female thread Rp

**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Stainless steel 1.4404 / 316L with femal thread Rp
- Gasket: O-ring EPDM



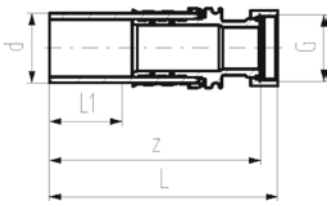

| d (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 32 | Rp | ½ | 25 | 11 | 16 | **738 940 008** | 0.183 | 132 | 36 | 118 |
| 32 | Rp | ¾ | 25 | 11 | 16 | **738 940 018** | 0.208 | 132 | 36 | 116 |
| 32 | Rp | 1 | 25 | 11 | 16 | **738 940 028** | 0.233 | 132 | 36 | 115 |
| 40 | Rp | 1 ¼ | 32 | 11 | 16 | **738 940 009** | 0.600 | 157 | 40 | 141 |
| 50 | Rp | 1 ½ | 40 | 11 | 16 | **738 940 010** | 0.641 | 150 | 44 | 128 |
| 63 | Rp | 2 | 50 | 11 | 16 | **738 940 011** | 1.133 | 164 | 48 | 140 |



## COOL-FIT 2.0/4.0 Adaptor fitting PE/stainless steel
## With loose union nut G

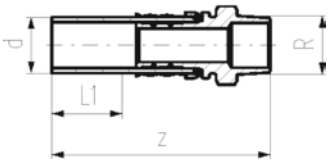
**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Stainless steel 1.4404 / 316L with loose union nut G
- Including flat seal EPDM




| d (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 32 | G | ½ | 25 | 11 | 16 | **738 940 308** | 0.186 | 133 | 36 | 126 |
| 32 | G | ¾ | 25 | 11 | 16 | **738 940 318** | 0.201 | 135 | 36 | 129 |
| 32 | G | 1 | 25 | 11 | 16 | **738 940 328** | 0.232 | 135 | 36 | 129 |
| 40 | G | 1 ¼ | 32 | 11 | 16 | **738 940 309** | 0.512 | 155 | 40 | 148 |
| 40 | G | 1 ½ | 32 | 11 | 16 | **738 940 319** | 0.572 | 157 | 40 | 148 |
| 50 | G | 1 ½ | 40 | 11 | 16 | **738 940 310** | 0.726 | 164 | 44 | 154 |
| 63 | G | 2 | 50 | 11 | 16 | **738 940 311** | 1.195 | 186 | 48 | 170 |





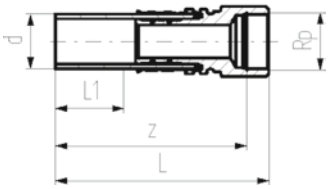

## COOL-FIT 2.0/4.0 Adaptor fitting PE/brass
## With male thread R

**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Brass CuZn40Pb2 with male thread R
- Gasket: O-ring EPDM

| d (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 32 | R | ½ | 25 | 11 | 16 | **738 950 508** | 0.188 | 36 | 130 |
| 32 | R | ¾ | 25 | 11 | 16 | **738 950 518** | 0.196 | 36 | 134 |
| 32 | R | 1 | 25 | 11 | 16 | **738 950 528** | 0.206 | 36 | 134 |
| 40 | R | 1 ¼ | 32 | 11 | 16 | **738 950 519** | 0.608 | 40 | 156 |
| 50 | R | 1 ½ | 40 | 11 | 16 | **738 950 510** | 0.986 | 44 | 168 |
| 63 | R | 2 | 50 | 11 | 16 | **738 950 511** | 1.433 | 48 | 179 |





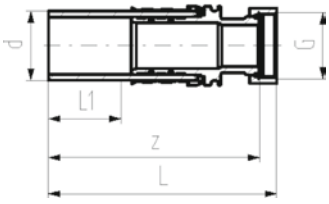

## COOL-FIT 2.0/4.0 Adaptor fitting PE/brass
## With female thread Rp

**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Brass CuZn40Pb2 with female tread Rp
- Gasket: O-ring EPDM

| d (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 32 | Rp | ½ | 25 | 11 | 16 | **738 950 008** | 0.192 | 132 | 36 | 118 |
| 32 | Rp | ¾ | 25 | 11 | 16 | **738 950 018** | 0.219 | 132 | 36 | 116 |
| 32 | Rp | 1 | 25 | 11 | 16 | **738 950 028** | 0.246 | 132 | 36 | 115 |
| 40 | Rp | 1 ¼ | 32 | 11 | 16 | **738 950 019** | 0.641 | 157 | 40 | 141 |
| 50 | Rp | 1 ½ | 40 | 11 | 16 | **738 950 010** | 0.684 | 150 | 44 | 128 |
| 63 | Rp | 2 | 50 | 11 | 16 | **738 950 011** | 1.209 | 164 | 48 | 140 |





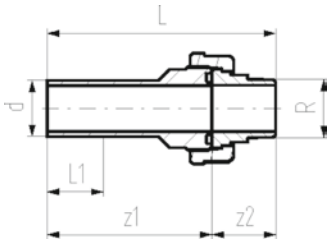

## COOL-FIT 2.0/4.0 Adaptor fitting PE/brass
## With loose union nut G

**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Brass CuZn40Pb2 with loose union nut G
- Including flat seal EPDM

| d (mm) | Thread | Size (inch) | DN (mm) | SDR | PN | Code | Weight (kg) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 32 | G | ¾ | 25 | 11 | 16 | **738 950 318** | 0.206 | 135 | 36 | 129 |
| 32 | G | 1 | 25 | 11 | 16 | **738 950 328** | 0.244 | 135 | 36 | 129 |
| 40 | G | 1 ¼ | 32 | 11 | 16 | **738 950 309** | 0.543 | 155 | 40 | 148 |
| 40 | G | 1 ½ | 32 | 11 | 16 | **738 950 319** | 0.607 | 157 | 40 | 148 |
| 50 | G | 1 ½ | 40 | 11 | 16 | **738 950 310** | 0.769 | 164 | 44 | 154 |
| 63 | G | 2 | 50 | 11 | 16 | **738 950 311** | 1.268 | 186 | 48 | 170 |





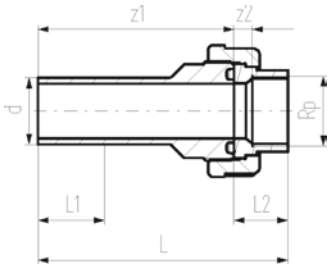

## COOL-FIT 2.0/4.0 Adaptor union PE/stainless steel
## With male thread R

**Model:**

- Union bush: Spigot fitting PE100 SDR11, metric with free end
- Union End: Stainless steel 1.4404 / 316L with male thread R
- Gasket: O-ring EPDM No. 748 410 008-011
- Union Nut: PEGF25

| d (mm) | Thread | Size (inch) | DN (mm) | SDR | PN | Code | Weight (kg) | L (mm) | L1 (mm) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | R | 1 | 25 | 11 | 16 | **738 540 708** | 0.276 | 147 | 36 | 107 | 40 |
| 40 | R | 1 ¼ | 32 | 11 | 16 | **738 540 709** | 0.495 | 163 | 40 | 117 | 46 |
| 50 | R | 1 ¼ | 40 | 11 | 16 | **738 540 710** | 0.606 | 172 | 44 | 124 | 48 |
| 63 | R | 2 | 50 | 11 | 16 | **738 540 711** | 1.000 | 191 | 48 | 136 | 55 |





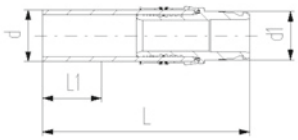

## COOL-FIT 2.0/4.0 Adaptor union PE/stainless steel
## With female thread Rp

**Model:**

- Union bush: Spigot fitting PE100 SDR11, metric with free end
- Union End: Stainless steel 1.4404 / 316L with female thread Rp
- Gasket: O-ring EPDM No. 748 410 008-011
- Union Nut: PEGF25

| d (mm) | Thread | Size (inch) | DN (mm) | SDR | PN | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | Rp | 1 | 25 | 11 | 16 | **738 540 208** | 0.234 | 136.0 | 36 | 29 | 107.0 | 10.0 |
| 40 | Rp | 1 ¼ | 32 | 11 | 16 | **738 540 209** | 0.387 | 150.0 | 40 | 33 | 117.5 | 11.0 |
| 50 | Rp | 1 ½ | 40 | 11 | 16 | **738 540 210** | 0.530 | 158.5 | 44 | 34 | 124.5 | 12.5 |
| 63 | Rp | 2 | 50 | 11 | 16 | **738 540 211** | 0.807 | 175.0 | 48 | 39 | 136.0 | 13.5 |





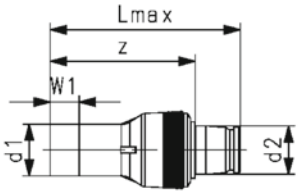

## COOL-FIT 2.0/4.0 Adaptor Fitting PE/iFIT

**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- iFIT module stainless steel 1.4404 / 316L

| d (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) |
|---|---|---|---|---|---|---|---|---|
| 32 | 25 | 11 | 10 | **738 940 108** | 0.211 | 132 | 36 | 80 |





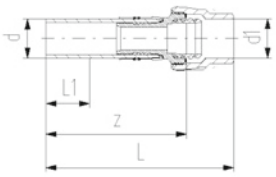

## COOL-FIT 2.0/4.0 Adaptor fitting PE/iFIT

**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Push system module brass

| d1 (mm) | d2 (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | Lmax (mm) | W1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 32 | 25/32 | 25 | 11 | 16 | **738 950 058** | 0.219 | 115 | 36 | 87 |





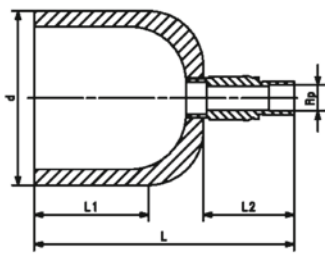

## COOL-FIT 2.0/4.0 Adaptor fitting PE/Sanipex MT

**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Sanipex MT adaptor brass CuZn40Pb2

| d (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | d1 (mm) | L (mm) | L1 (mm) | L2 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 25 | 11 | 10 | **738 950 118** | 0.412 | 32 | 174 | 36 | 101 | 135 |



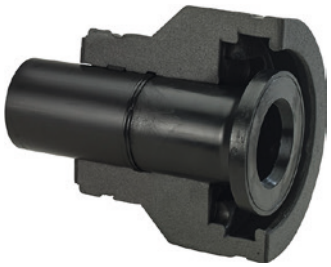



## COOL-FIT 2.0/4.0 Transition cap PE/brass With female thread Rp

**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Brass CuZn40Pb2 with female tread Rp
- Gasket: O-ring EPDM

| d (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 32 | Rp | ½ | 25 | 11 | 16 | **738 960 008** | 0.200 | 107 | 36 | 69 |
| 40 | Rp | ½ | 32 | 11 | 16 | **738 960 009** | 0.210 | 113 | 40 | 73 |
| 50 | Rp | ½ | 40 | 11 | 16 | **738 960 010** | 0.250 | 117 | 44 | 73 |
| 63 | Rp | ½ | 50 | 11 | 16 | **738 960 011** | 0.300 | 121 | 48 | 73 |
| 75 | Rp | ½ | 65 | 11 | 16 | **738 960 012** | 0.400 | 128 | 55 | 73 |
| 90 | Rp | ½ | 80 | 11 | 16 | **738 960 013** | 0.476 | 135 | 62 | 73 |
| 110 | Rp | ½ | 100 | 11 | 16 | **738 960 014** | 0.695 | 145 | 72 | 73 |
| 140 | Rp | ½ | 125 | 11 | 16 | **738 960 016** | 0.954 | 209 | 84 | 73 |
| 160 | Rp | ½ | 150 | 11 | 16 | **738 960 017** | 1.300 | 193 | 90 | 73 |
| 225 | Rp | ½ | 200 | 11 | 16 | **738 960 020** | 2.532 | 221 | 110 | 73 |



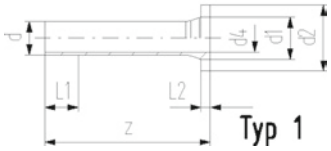
## COOL-FIT 2.0/4.0 Flange adaptor

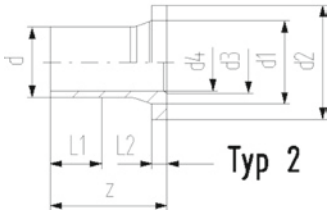
**Model:**

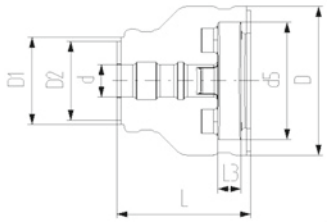
- PE100 SDR11, metric
- Suitable for flange connections to metric and/or ANSI/ASME B16.5
- Type 1 without chamfer, Type 2 with chamfer
- Profile flange gasket EPDM: metric No. 48 44 07, ANSI No. 48 44 05.
- Separate Fittings type A needed for joining

**Note:**

Backing ring and gasket not included



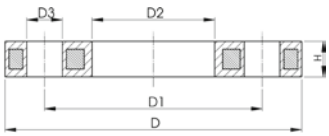




| d (mm) | DN (mm) | SDR | PN | Type | Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 32 | 25 | 11 | 16 | 1 | **738 710 008** | 0.320 |
| 32 | 25 | 11 | 16 | 1 | **738 710 108** | 0.320 |
| 40 | 32 | 11 | 16 | 1 | **738 710 009** | 0.480 |
| 40 | 32 | 11 | 16 | 1 | **738 710 109** | 0.480 |
| 50 | 40 | 11 | 16 | 1 | **738 710 010** | 0.620 |
| 63 | 50 | 11 | 16 | 1 | **738 710 011** | 0.910 |
| 50 | 40 | 11 | 16 | 1 | **738 710 110** | 0.620 |
| 75 | 65 | 11 | 16 | 2 | **738 710 012** | 1.220 |
| 90 | 80 | 11 | 16 | 2 | **738 710 013** | 1.650 |
| 90 | 80 | 11 | 16 | 2 | **738 710 113** | 1.650 |
| 110 | 100 | 11 | 16 | 2 | **738 710 014** | 2.390 |
| 140 | 125 | 11 | 16 | 2 | **738 710 016** | 3.660 |
| 160 | 150 | 11 | 16 | 2 | **738 710 017** | 4.800 |
| 225 | 200 | 11 | 16 | 2 | **738 710 020** | 9.600 |

| d (mm) | D (mm) | d1 (mm) | D1 (mm) | d2 (mm) | D2 (mm) | d3 (mm) | d4 (mm) | d5 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | Standard | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 135 | 40 | 90 | 68 | | | 26 | 121 | 162 | 36 | 10 | 26 | Metric | 190 |
| 32 | 135 | 40 | 90 | 63 | 63 | | 26 | 121 | 162 | 36 | 10 | 26 | ANSI | 190 |
| 40 | 170 | 50 | 110 | 78 | 90 | | 32 | 146 | 165 | 40 | 11 | 28 | Metric | 197 |
| 40 | 170 | 50 | 110 | 73 | 73 | | 32 | 146 | 165 | 40 | 11 | 28 | ANSI | 197 |
| 50 | 180 | 61 | 110 | 88 | 90 | | 40 | 156 | 178 | 44 | 12 | 30 | Metric | 214 |
| 63 | 200 | 75 | 125 | 102 | 110 | | 51 | 171 | 230 | 48 | 14 | 32 | Metric, ANSI | 270 |
| 50 | 180 | 61 | 110 | 82 | 82 | | 40 | 156 | 178 | 44 | 12 | 30 | ANSI | 214 |
| 75 | 220 | 89 | 140 | 122 | 125 | 66 | 61 | 191 | 232 | 55 | 16 | 34 | Metric, ANSI | 279 |
| 90 | 240 | 105 | 160 | 138 | 140 | 78 | 73 | 206 | 245 | 62 | 17 | 35 | Metric | 299 |
| 90 | 240 | 105 | 160 | 133 | 133 | 78 | 73 | 206 | 245 | 62 | 17 | 35 | ANSI | 299 |
| 110 | 270 | 125 | 180 | 158 | 160 | 100 | 90 | 235 | 254 | 72 | 18 | 36 | Metric, ANSI | 320 |
| 140 | 300 | 155 | 225 | 188 | 200 | 127 | 127 | 256 | 299 | 84 | 25 | 38 | Metric, ANSI | 383 |
| 160 | 358 | 174 | 259 | 213 | 213 | 151 | 131 | 295 | 332 | 90 | 25 | 34 | Metric, ANSI | 412 |
| 225 | 423 | 233 | 325 | 268 | 268 | 209 | 184 | 354 | 383 | 110 | 32 | 37 | Metric, ANSI | 483 |








## Flanges PP-Steel

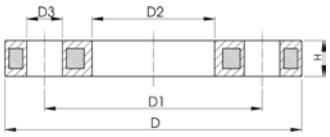
**Model:**

- Material: PP (30% glass-fibre reinforced) with steel ring
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D4024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes
* FM 1613 approved - 15 bar
** Profiled loose flange

| | d (mm) | DN (mm) | D (mm) | PN (bar) | Standard | Bolt / circle | Design | Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|
| | 20 | 15 | 95 | 16 | Metric | PN10 | Butt/Socket | **727 700 206** | 0.216 |
| | 20 | 15 | 95 | 16 | ASME | class 150 | Butt/Socket | **727 701 206** | 0.213 |
| | 25 | 20 | 105 | 16 | Metric | PN10 | Butt/Socket | **727 700 207** | 0.279 |
| | 25 | 20 | 105 | 16 | ASME | class 150 | Butt/Socket | **727 701 207** | 0.260 |
| | 32 | 25 | 115 | 16 | Metric | PN10 | Butt/Socket | **727 700 208** | 0.429 |
| | 32 | 25 | 115 | 16 | ASME | class 150 | Butt/Socket | **727 701 208** | 0.416 |
| | 40 | 32 | 140 | 16 | Metric | PN10 | Butt/Socket | **727 700 209** | 0.621 |
| | 40 | 32 | 140 | 16 | ASME | class 150 | Butt/Socket | **727 701 209** | 0.730 |
| | 50 | 40 | 150 | 16 | Metric | PN10 | Butt/Socket | **727 700 210** | 0.722 |
| | 50 | 40 | 150 | 16 | ASME | class 150 | Butt/Socket | **727 701 210** | 0.809 |
| | 63 | 50 | 165 | 16 | Metric | PN10 | Butt/Socket | **727 700 211** | 0.900 |
| | 63 | 50 | 165 | 16 | ASME | class 150 | Butt/Socket | **727 701 211** | 0.866 |
| | 75 | 65 | 185 | 16 | Metric | PN10 | Butt/Socket | **727 700 212** | 1.110 |
| | 75 | 65 | 185 | 16 | ASME | class 150 | Butt/Socket | **727 701 212** | 1.117 |
| * | 90 | 80 | 200 | 16 | Metric | PN10 | Butt | **724 700 313** | 1.390 |
| | 90 | 80 | 200 | 16 | Metric | PN10 | Socket | **727 700 213** | 1.369 |
| | 90 | 80 | 200 | 16 | Metric | PN10 | Butt | **727 700 313** | 1.390 |
| | 90 | 80 | 200 | 16 | ASME | class 150 | Socket | **727 701 213** | 1.492 |
| | 90 | 80 | 200 | 16 | ASME | class 150 | Butt | **727 701 313** | 1.499 |
| * | 110 | 100 | 223 | 16 | Metric | PN10 | Butt | **724 700 314** | 1.407 |
| | 110 | 100 | 220 | 16 | Metric | PN10 | Socket | **727 700 214** | 1.522 |
| | 110 | 100 | 220 | 16 | Metric | PN10 | Butt | **727 700 314** | 1.407 |
| | 110 | 100 | 229 | 16 | ASME | class 150 | Socket | **727 701 214** | 1.695 |
| | 110 | 100 | 229 | 16 | ASME | class 150 | Butt | **727 701 314** | 1.739 |
| * | 125 | 100 | 223 | 16 | Metric | PN10 | Butt | **724 700 315** | 1.408 |
| | 125 | 100 | 220 | 16 | Metric | PN10 | Butt | **727 700 315** | 1.408 |
| | 125 | 125 | 250 | 16 | Metric | PN10 | Socket | **727 700 815** | 2.475 |
| * | 140 | 125 | 250 | 16 | Metric | PN10 | Butt | **724 700 316** | 2.318 |
| | 140 | 125 | 250 | 16 | Metric | PN10 | Butt | **727 700 716** | 2.318 |
| | 140 | 125 | 250 | 16 | Metric | PN10 | Socket | **727 700 816** | 2.033 |
| * | 160 | 150 | 285 | 16 | Metric | PN10 | Butt | **724 700 317** | 3.491 |
| | 160 | 150 | 285 | 16 | Metric/ASME | PN10/ class 150 | Butt | **727 700 717** | 3.491 |
| | 160 | 150 | 285 | 16 | Metric/ASME | PN10/ class 150 | Socket | **727 700 817** | 3.167 |
| * | 180 | 150 | 285 | 16 | Metric | PN10 | Butt | **724 700 318** | 3.108 |
| | 180 | 150 | 285 | 16 | Metric/ASME | PN10/ Class 150 | Butt | **727 700 718** | 3.108 |
| *, ** | 200 | 200 | 344 | 16 | Metric | PN16 | Butt | **724 700 319** | 3.549 |
| | 200 | 200 | 340 | 16 | Metric/ASME | PN10/ class 150 | Butt | **727 700 719** | 5.600 |
| | 200 | 200 | 340 | 16 | Metric/ASME | PN10/ class 150 | Socket | **727 700 819** | 6.143 |
| *, ** | 225 | 200 | 344 | 16 | Metric | PN16 | Butt | **724 700 320** | 3.380 |
| | 225 | 200 | 340 | 16 | Metric/ASME | PN10/ class 150 | Butt | **727 700 720** | 5.533 |
| | 225 | 200 | 340 | 16 | Metric/ASME | PN10/ class 150 | Socket | **727 700 820** | 4.448 |
| *, ** | 250 | 250 | 410 | 16 | Metric | PN16 | Butt | **724 700 321** | 6.390 |
| | 250 | 225 | 395 | 16 | Metric | PN10 | Socket | **727 700 031** | 8.340 |
| | 250 | 250 | 406 | 10 | ASME | class 150 | Butt | **727 701 321** | 6.000 |
| | 250 | 250 | 395 | 16 | Metric | PN10 | Butt | **727 700 721** | 6.632 |
| | 250 | 250 | 395 | 16 | Metric | PN10 | Socket | **727 700 821** | 7.179 |
| *, ** | 280 | 250 | 410 | 16 | Metric | PN16 | Butt | **724 700 322** | 6.310 |
| | 280 | 250 | 395 | 16 | Metric | PN10 | Butt | **727 700 722** | 6.573 |

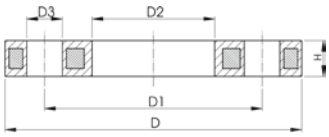
table continued on the next page




| | d (mm) | DN (mm) | D (mm) | PN (bar) | Standard | Bolt / circle | Design | Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|
| | 280 | 250 | 395 | 16 | Metric | PN10 | Socket | **727 700 822** | 5.547 |
| *, ** | 315 | 300 | 455 | 16 | Metric | PN16 | Butt | **724 700 323** | 9.740 |
| | 315 | 300 | 445 | 16 | Metric | PN10 | Butt | **727 700 723** | 7.903 |
| | 315 | 300 | 445 | 16 | Metric | PN10 | Socket | **727 700 823** | 6.980 |
| | 315 | 300 | 483 | 10 | ASME | class 150 | Butt | **727 701 322** | 11.800 |
| *, ** | 355 | 350 | 521 | 16 | Metric | PN16 | Butt | **724 700 324** | 15.203 |
| | 355 | 350 | 515 | 16 | Metric | PN10 | Butt | **727 700 724** | 14.587 |
| | 355 | 350 | 515 | 16 | Metric | PN10 | Socket | **727 700 824** | 12.465 |
| | 355 | 350 | 540 | 10 | ASME | class 150 | Butt | **727 701 323** | 17.900 |
| *, ** | 400 | 400 | 582 | 16 | Metric | PN16 | Butt | **724 700 325** | 20.600 |
| | 400 | 400 | 574 | 16 | Metric | PN10 | Butt | **727 700 725** | 20.034 |
| | 400 | 400 | 574 | 16 | Metric | PN10 | Socket | **727 700 825** | 17.607 |
| | 400 | 400 | 597 | 10 | ASME | class 150 | Butt | **727 701 324** | 24.500 |
| *, ** | 450 | 500 | 685 | 10 | Metric | PN10 | Butt | **724 700 426** | 25.600 |
| *, ** | 500 | 500 | 685 | 10 | Metric | PN10 | Butt | **724 700 427** | 21.061 |
| ** | 560 | 600 | 796 | 10 | Metric | PN10 | Butt | **724 700 428** | 35.000 |
| ** | 630 | 600 | 800 | 10 | Metric | PN10 | Butt | **724 700 429** | 28.500 |
| ** | 710 | 700 | 912 | 6 | Metric | PN10 | Butt | **724 700 430** | 25.500 |
| ** | 800 | 800 | 1026 | 6 | Metric | PN10 | Butt | **724 700 431** | 39.300 |
| ** | 900 | 900 | 1129 | 6 | Metric | PN10 | Butt | **724 700 432** | 48.500 |
| | 450 | 500 | 712 | 10 | ASME | class 150 | Butt | **727 701 325** | 33.600 |

| | d (mm) | D1 (mm) | D2 (mm) | D3 (mm) | H max. (mm) | AL | SC |
|---|---|---|---|---|---|---|---|
| | 20 | 65 | 28 | 14 | 12 | 4 | M12 |
| | 20 | 60 | 28 | 16 | 12 | 4 | M12 |
| | 25 | 75 | 34 | 14 | 12 | 4 | M12 |
| | 25 | 70 | 34 | 16 | 12 | 4 | M12 |
| | 32 | 85 | 42 | 14 | 16 | 4 | M12 |
| | 32 | 79 | 42 | 16 | 16 | 4 | M12 |
| | 40 | 100 | 51 | 18 | 16 | 4 | M16 |
| | 40 | 89 | 51 | 16 | 16 | 4 | M16 |
| | 50 | 110 | 62 | 18 | 20 | 4 | M16 |
| | 50 | 98 | 62 | 16 | 18 | 4 | M16 |
| | 63 | 125 | 78 | 18 | 20 | 4 | M16 |
| | 63 | 121 | 78 | 19 | 18 | 4 | M16 |
| | 75 | 145 | 92 | 18 | 20 | 4 | M16 |
| | 75 | 140 | 92 | 19 | 18 | 4 | M16 |
| * | 90 | 160 | 108 | 18 | 20 | 8 | M16 |
| | 90 | 160 | 110 | 18 | 20 | 8 | M16 |
| | 90 | 160 | 108 | 18 | 20 | 8 | M16 |
| | 90 | 152 | 110 | 19 | 20 | 4 | M16 |
| | 90 | 152 | 108 | 19 | 20 | 4 | M16 |
| * | 110 | 180 | 128 | 18 | 20 | 8 | M16 |
| | 110 | 180 | 133 | 18 | 20 | 8 | M16 |
| | 110 | 180 | 128 | 18 | 20 | 8 | M16 |
| | 110 | 190 | 133 | 19 | 20 | 8 | M16 |
| | 110 | 190 | 128 | 19 | 20 | 8 | M16 |
| * | 125 | 180 | 135 | 18 | 20 | 8 | M16 |
| | 125 | 180 | 135 | 18 | 20 | 8 | M16 |
| | 125 | 210 | 150 | 18 | 26 | 8 | M16 |
| * | 140 | 210 | 158 | 18 | 24 | 8 | M16 |
| | 140 | 210 | 158 | 18 | 24 | 8 | M16 |
| | 140 | 210 | 167 | 18 | 26 | 8 | M16 |
| * | 160 | 240 | 178 | 22 | 28 | 8 | M20 |
| | 160 | 240 | 178 | 22 | 24 | 8 | M20 |
| | 160 | 240 | 190 | 22 | 26 | 8 | M20 |
| * | 180 | 240 | 188 | 22 | 28 | 8 | M20 |
| | 180 | 240 | 188 | 22 | 24 | 8 | M20 |
| *, ** | 200 | 295 | 235 | 22 | 31 | 12 | M20 |
| | 200 | 295 | 235 | 22 | 27 | 8 | M20 |
| | 200 | 295 | 226 | 22 | 29 | 8 | M20 |
| *, ** | 225 | 295 | 238 | 22 | 31 | 12 | M20 |

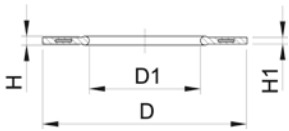
table continued on the next page




| | d (mm) | D1 (mm) | D2 (mm) | D3 (mm) | H max. (mm) | AL | SC |
|---|---|---|---|---|---|---|---|
| | 225 | 297 | 238 | 22 | 27 | 8 | M20 |
| | 225 | 297 | 250 | 22 | 29 | 8 | M20 |
| *, ** | 250 | 355 | 288 | 26 | 35 | 12 | M24 |
| | 250 | 325 | 277 | 22 | 32 | 8 | M20 |
| | 250 | 362 | 293 | 25 | 30 | 12 | M24 |
| | 250 | 350 | 288 | 22 | 30 | 12 | M20 |
| | 250 | 350 | 277 | 22 | 32 | 12 | M20 |
| *, ** | 280 | 355 | 294 | 26 | 36 | 12 | M24 |
| | 280 | 350 | 294 | 22 | 30 | 12 | M20 |
| | 280 | 350 | 310 | 22 | 32 | 12 | M20 |
| *, ** | 315 | 410 | 338 | 26 | 43 | 12 | M24 |
| | 315 | 400 | 338 | 22 | 34 | 12 | M20 |
| | 315 | 400 | 348 | 22 | 36 | 12 | M20 |
| | 315 | 432 | 338 | 25 | 34 | 12 | M24 |
| *, ** | 355 | 470 | 376 | 26 | 55 | 16 | M24 |
| | 355 | 460 | 376 | 23 | 40 | 16 | M20 |
| | 355 | 460 | 388 | 23 | 42 | 16 | M20 |
| | 355 | 476 | 376 | 29 | 42 | 12 | M27 |
| *, ** | 400 | 525 | 430 | 30 | 56 | 16 | M27 |
| | 400 | 515 | 430 | 26 | 40 | 16 | M24 |
| | 400 | 515 | 442 | 26 | 42 | 16 | M24 |
| | 400 | 539 | 429 | 29 | 44 | 16 | M27 |
| *, ** | 450 | 620 | 517 | 26 | 56 | 20 | M24 |
| *, ** | 500 | 620 | 533 | 26 | 56 | 20 | M24 |
| ** | 560 | 725 | 618 | 30 | 68 | 20 | M27 |
| ** | 630 | 725 | 645 | 30 | 68 | 20 | M27 |
| ** | 710 | 840 | 740 | 30 | 49 | 24 | M27 |
| ** | 800 | 950 | 843 | 33 | 58 | 24 | M30 |
| ** | 900 | 1050 | 947 | 33 | 62 | 28 | M30 |
| | 450 | 635 | 540 | 32 | 53 | 20 | M30 |








## Profile Flange Gasket EPDM/FKM metric

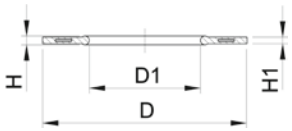
**Model:**

- For all metric GF Flange Adaptors
- Hardness: 70° Shore EPDM, 75° Shore FKM
- EPDM: approved acc. to DVGW Water W 270, KTW recommendation
- Centering on the inner diameter of the screw crown
- material steel insert: carbon steel
- Rubber-steel body combined with rubber profile cord ring up to d630
- Rubber-steel body ideal for big dimensions (d710 - d1000)

di FA are the suitable inner diameters of flanges adaptors

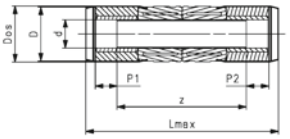
| d (mm) | DN (mm) | PN (bar) | EPDM Code | FKM Code | Weight (kg) | D (mm) | D1 (mm) | di FA (mm) | H (mm) | H1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 16 | **748 440 705** | **749 440 705** | 0.012 | 46 | 16 | 6 - 16 | 4 | 3 |
| 20 | 15 | 16 | **748 440 706** | **749 440 706** | 0.013 | 51 | 20 | 10 - 20 | 4 | 3 |
| 25 | 20 | 16 | **748 440 707** | **749 440 707** | 0.014 | 61 | 22 | 12 - 22 | 4 | 3 |
| 32 | 25 | 16 | **748 440 708** | **749 440 708** | 0.019 | 71 | 28 | 18 - 28 | 4 | 3 |
| 40 | 32 | 16 | **748 440 709** | **749 440 709** | 0.026 | 82 | 40 | 30 - 40 | 4 | 3 |
| 50 | 40 | 16 | **748 440 710** | **749 440 710** | 0.039 | 92 | 46 | 36 - 46 | 4 | 3 |
| 63 | 50 | 16 | **748 440 711** | **749 440 711** | 0.050 | 107 | 58 | 48 - 58 | 5 | 4 |
| 75 | 65 | 16 | **748 440 712** | **749 440 712** | 0.082 | 127 | 69 | 59 - 69 | 5 | 4 |
| 90 | 80 | 16 | **748 440 713** | **749 440 713** | 0.083 | 142 | 84 | 73 - 84 | 5 | 4 |
| 110 | 100 | 16 | **748 440 714** | **749 440 714** | 0.127 | 162 | 104 | 94 - 104 | 6 | 5 |
| 125 | 100 | 16 | **748 440 715** | **749 440 715** | 0.105 | 162 | 123 | 113 - 123 | 6 | 5 |
| 140 | 125 | 16 | **748 440 716** | **749 440 716** | 0.173 | 192 | 137 | 127 - 137 | 6 | 5 |
| 160 - 180 | 150 | 16 | **748 440 717** | **749 440 717** | 0.207 | 218 | 160 | 150 - 160 | 8 | 6 |
| 200 | 200 | 16 | **748 440 719** | **749 440 719** | 0.263 | 273 | 203 | 192 - 203 | 8 | 6 |
| 225 | 200 | 16 | **748 440 720** | **749 440 720** | 0.255 | 273 | 220 | 207 - 220 | 8 | 6 |
| 250 | 250 | 16 | **748 440 721** | **749 440 721** | 0.462 | 328 | 252 | 238 - 252 | 8 | 6 |

table continued on the next page




| d (mm) | DN (mm) | PN (bar) | EPDM Code | FKM Code | Weight (kg) | D (mm) | D1 (mm) | di FA (mm) | H (mm) | H1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 280 | 250 | 16 | **748 440 722** | **749 440 722** | 0.323 | 328 | 274 | 264 - 274 | 8 | 6 |
| 315 | 300 | 16 | **748 440 723** | **749 440 723** | 0.549 | 378 | 306 | 296 - 306 | 8 | 6 |
| 355 | 350 | 16 | **748 440 724** | **749 440 724** | 0.870 | 438 | 355 | 340 - 355 | 10 | 7 |
| 400 | 400 | 16 | **748 440 725** | **749 440 725** | 1.088 | 489 | 400 | 385 - 400 | 10 | 7 |
| 450 | 500 | 10 | **748 440 726** | **749 440 726** | 0.718 | 594 | 403 | 393 - 403 | 10 | 7 |
| 500 | 500 | 10 | **748 440 727** | **749 440 727** | 0.718 | 594 | 447 | 437 - 447 | 10 | 7 |
| 560 | 600 | 10 | **748 440 728** | **749 440 728** | 0.923 | 695 | 494 | 484 - 494 | 10 | 7 |
| 630 | 600 | 10 | **748 440 729** | **749 440 729** | 0.923 | 695 | 555 | 545 - 555 | 10 | 7 |
| 710 | 700 | 6 | **748 440 730** | | 0.890 | 810 | 712 | 562 - 712 | 6 | 3 |
| 800 | 800 | 6 | **748 440 731** | | 1.340 | 917 | 813 | 663 - 813 | 6 | 3 |
| 900 | 900 | 6 | **748 440 732** | | 1.170 | 1017 | 915 | 765 - 915 | 6 | 3 |
| 1000 | 1000 | 6 | **748 440 733** | | 1.360 | 1124 | 1016 | 866 - 1016 | 6 | 3 |






### COOL-FIT 2.0 Sliding coupler kit

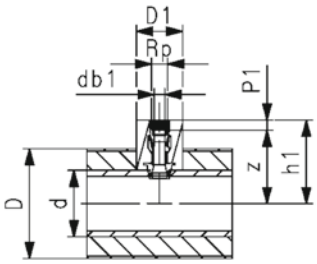
**Model:**

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- Integrated sealing lip, for a moisture-proof and vapour tight sealing
- Including two couplers, pipe section and four insulation half shells

| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | Dos (mm) | Lmax (mm) | P1 (mm) | P2 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 75 | 25 | 11 | 16 | **738 914 508** | 0.311 | 82 | 376 | 36 | 36 | 268 |
| 40 | 90 | 32 | 11 | 16 | **738 914 509** | 0.446 | 97 | 402 | 40 | 40 | 284 |
| 50 | 90 | 40 | 11 | 16 | **738 914 510** | 0.589 | 97 | 422 | 44 | 44 | 296 |
| 63 | 110 | 50 | 11 | 16 | **738 914 511** | 0.907 | 117 | 452 | 48 | 48 | 318 |
| 75 | 125 | 65 | 11 | 16 | **738 914 512** | 1.309 | 133 | 493 | 55 | 55 | 344 |
| 90 | 140 | 80 | 11 | 16 | **738 914 513** | 1.890 | 148 | 532 | 62 | 62 | 370 |
| 110 | 160 | 100 | 11 | 16 | **738 914 514** | 3.078 | 168 | 604 | 72 | 72 | 420 |
| 140 | 200 | 125 | 11 | 16 | **738 914 516** | 4.851 | 208 | 673 | 84 | 84 | 466 |

# COOL-FIT 2.0 Weld-in Port






### COOL-FIT 2.0 Weld-in port PE/brass
### With female thread Rp

**Model:**

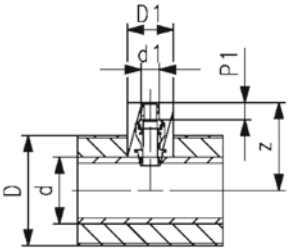
- Material: PE100, brass with low lead content, dezincification resistant
- With Weld-in port cone (PE100) and female thread Rp (brass) for the installation of sensors, instruments, venting and draining
- Gasket: O-ring EPDM
- Including insulation made from EPDM foam

**Note:**

For pipes COOL-FIT 2.0, COOL-FIT 2.0F, COOL-FIT 4.0 and COOL-FIT 4.0F of the dimension d63-d225

| Size (inch) | Thread | PN (bar) | Code | Weight (kg) | d (mm) | db1 (mm) | D1 (mm) | h1 (mm) | P1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| ½ | Rp | 16 | **738 114 106** | 0.140 | d63 - d225 | 11.8 | 73 | 85+d/2 | 15 | 70 + d/2 |
| ¾ | Rp | 16 | **738 114 107** | 0.183 | d63 - d225 | 17.4 | 73 | 85+d/2 | 16 | 69 + d/2 |
| 1 | Rp | 16 | **738 114 108** | 0.247 | d63 - d225 | 23.1 | 73 | 86+d/2 | 19 | 67 + d/2 |






## COOL-FIT 2.0 Weld-in port PE/iFIT

**Model:**

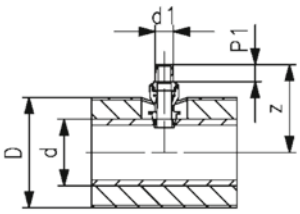
- Material: PE100, brass
- With Weld-in port cone (PE100) and iFIT module (brass) for the transition to COOL-FIT Push System or iFIT
- Gasket: O-ring EPDM
- Including insulation made from EPDM foam

**Note:**

For pipes COOL-FIT 2.0, COOL-FIT 2.0F, COOL-FIT 4.0 and COOL-FIT 4.0F of the dimension d63-d225

| d1 (mm) | PN (bar) | Code | Weight (kg) | d (mm) | D1 (mm) | P1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|
| 16/20 | 16 | **738 114 406** | 0.143 | d63 - d225 | 73 | 20 | 84 + d/2 |






## COOL-FIT 2.0/4.0 Weld-in port PE/iFIT

**Model:**

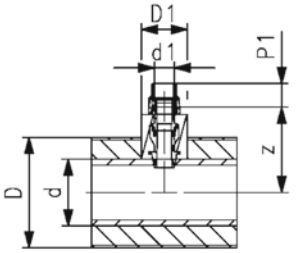
- Material: PE100, brass
- With Weld-in port cone (PE100) and iFIT module (brass) for the transition to COOL-FIT Push System or iFIT
- Gasket: O-ring EPDM

**Note:**

For pipes COOL-FIT 2.0, COOL-FIT 2.0F, COOL-FIT 4.0 and COOL-FIT 4.0F of the dimension d63-d225

| d1 (mm) | PN (bar) | Code | Weight (kg) | d (mm) | P1 (mm) | z (mm) |
|---|---|---|---|---|---|---|
| 25/32 | 16 | **738 110 407** | 0.228 | d63 - d225 | 28 | 92 + d/2 |






## COOL-FIT 2.0 Weld-in port PE/Sanipex MT

**Model:**

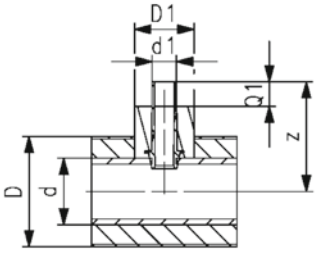
- Material: PE100, brass with low lead content, dezincification resistant
- With Weld-in port cone (PE100) and Sanipex MT adaptor (brass) for the transition to Sanipex MT
- Gasket: O-ring EPDM
- Including insulation made from EPDM foam

**Note:**

For pipes COOL-FIT 2.0, COOL-FIT 2.0F, COOL-FIT 4.0 and COOL-FIT 4.0F of the dimension d63-d225

| d1 (mm) | PN (bar) | Code | Weight (kg) | d (mm) | db1 (mm) | D1 (mm) | P1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| 32 | 16 | **738 114 508** | 0.240 | d63 - d225 | 11.8 | 73 | 39 | 49 + d/2 |






### COOL-FIT 2.0 Weld-in port PE spigot

**Model:**

- Material: PE100
- With Weld-in port cone (PE100) and metric spigot SDR11 for transitions to COOL-FIT 2.0 fittings type A or PE Fittings
- Including insulation made from EPDM foam

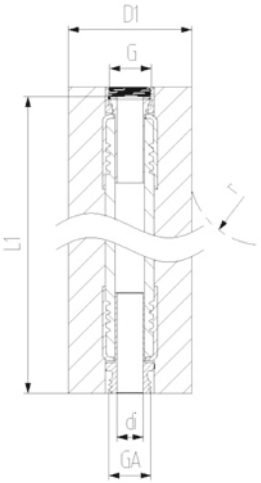
**Note:**

For pipes COOL-FIT 2.0, COOL-FIT 2.0F, COOL-FIT 4.0 and COOL-FIT 4.0F

| d1 (mm) | SDR | PN (bar) | Code | Weight (kg) | d (mm) | D1 (mm) | Q1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| 32 | 11 | 16 | **738 114 608** | 0.070 | d63 - d225 | 73 | 36 | 125 + d/2 |
| 40 | 11 | 16 | **738 114 609** | 0.104 | d75 - d225 | 86 | 40 | 131 + d/2 |
| 50 | 11 | 16 | **738 114 610** | 0.152 | d90 - d225 | 92 | 44 | 140 + d/2 |

# COOL-FIT 2.0 Flexible Hoses






### COOL-FIT 2.0 Flexible hose

**Model:**

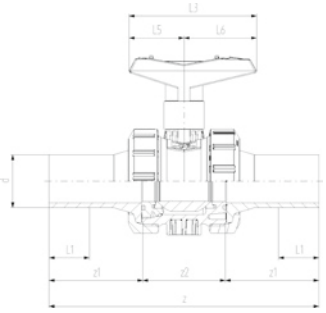
- EPDM flexible hose with stainless steel protection
- Brass adaptors
- Pre-Insulation made from NBR foam with outer jacket impact resistant and tearproof
- With loose union nut G on one end and male thread GA on the other

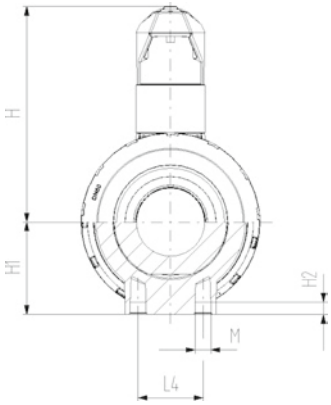
| d (mm) | D1 (mm) | Thread | Size (inch) | DN (mm) | PN (bar) | Code | di (mm) | L1 (mm) | r (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 20 | 39 | G/GA | 1/2" | 15 | 10 | **738 924 206** | 15 | 1000 | 119 |
| 25 | 44 | G/GA | 3/4" | 20 | 10 | **738 924 207** | 19 | 1000 | 156 |
| 32 | 51 | G/GA | 1" | 25 | 10 | **738 924 208** | 25 | 1000 | 192 |
| 40 | 59 | G/GA | 1 1/4" | 32 | 8 | **738 924 209** | 32 | 1500 | 252 |
| 50 | 69 | G/GA | 1 1/2" | 40 | 6 | **738 924 210** | 38 | 2000 | 312 |
| 63 | 82 | G/GA | 2" | 50 | 6 | **738 924 211** | 52 | 2000 | 372 |

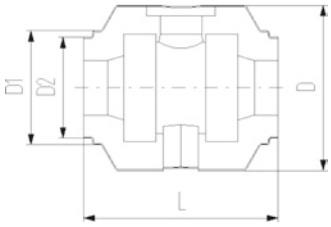
# COOL-FIT 2.0 Valves











## COOL-FIT 2.0 Ball valve hand-operated

**Model:**

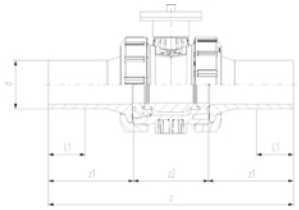
- Material: PVC-U with spigot PE100 SDR11, metric
- Ball seals type 542-PE/ blue lever ; type 546 PTFE/ red lever
- Integrated stainless steel mounting inserts for type 546
- Including insulation half shells

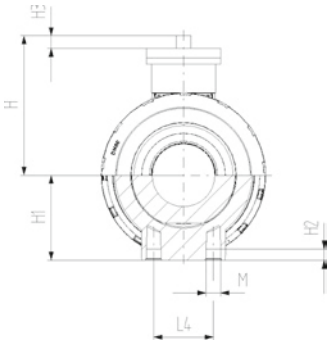
| d (mm) | DN (mm) | PN | kv-value (Δp=1 bar) (l/min) | Code | Weight (kg) |
|---|---|---|---|---|---|
| 32 | 25 | 16 | 700 | **138 541 308** | 0.550 |
| 40 | 32 | 16 | 1000 | **138 541 309** | 0.892 |
| 50 | 40 | 16 | 1600 | **138 541 310** | 1.187 |
| 63 | 50 | 16 | 3100 | **138 541 311** | 2.153 |
| 75 | 65 | 16 | 5000 | **138 546 312** | 5.550 |
| 90 | 80 | 16 | 7000 | **138 546 313** | 8.150 |

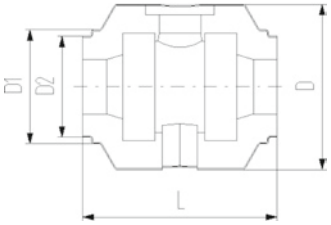
| d (mm) | D (mm) | D1 (mm) | D2 (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | z (mm) | z1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 135 | 97 | 82 | 97 | 34 | | 152 | 36 | 93 | | 34 | 59 | | 223 | 76 |
| 40 | 157 | 117 | 97 | 114 | 42 | | 170 | 40 | 110 | | 41 | 69 | | 249 | 82 |
| 50 | 169 | 117 | 97 | 120 | 49 | | 184 | 44 | 180 | | 41 | 69 | | 271 | 91 |
| 63 | 204 | 132 | 117 | 141 | 62 | | 227 | 48 | 128 | | 49 | 79 | | 321 | 110 |
| 75 | 235 | 147 | 132 | 194 | 85 | 15 | 276 | 55 | 270 | 70 | 64 | 206 | M8 | 386 | 125 |
| 90 | 255 | 168 | 147 | 200 | 105 | 15 | 297 | 62 | 270 | 70 | 64 | 206 | M8 | 421 | 140 |

| d (mm) | z2 (mm) | Type |
|---|---|---|
| 32 | 71 | 542 |
| 40 | 85 | 542 |
| 50 | 89 | 542 |
| 63 | 101 | 542 |
| 75 | 136 | 546 |
| 90 | 141 | 546 |








## COOL-FIT 2.0 Ball valve type 546 Pro bare shaft

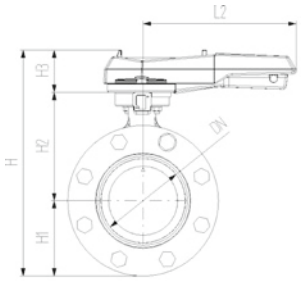
**Model:**

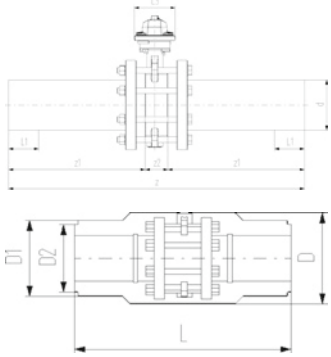
- Material: PVC-U with spigot PE100 SDR11, metric
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Interface according to DIN EN ISO 5211
- Including insulation half shells

| d (mm) | DN (mm) | PN | kv-value (Δp=1 bar) (l/min) | SDR | EPDM Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 32 | 25 | 16 | 700 | 11 | **138 546 408** | 0.560 |
| 40 | 32 | 16 | 1000 | 11 | **138 546 409** | 0.900 |
| 50 | 40 | 16 | 1600 | 11 | **138 546 410** | 1.190 |
| 63 | 50 | 16 | 3100 | 11 | **138 546 411** | 2.110 |
| 75 | 65 | 16 | 5000 | 11 | **138 546 412** | 5.550 |
| 90 | 80 | 16 | 7000 | 11 | **138 546 413** | 8.150 |

| d (mm) | D (mm) | D1 (mm) | D2 (mm) | H (mm) | H1 (mm) | H2 (mm) | H3 (mm) | Hole pattern | L (mm) | L1 (mm) | M | z (mm) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 135 | 97 | 82 | 72 | 36 | 12 | 11 | F05/F03 | 152 | 36 | M6 | 223 | 76 | 71 |
| 40 | 157 | 117 | 97 | 84 | 44 | 15 | 11 | F05/F03 | 170 | 40 | M8 | 249 | 82 | 85 |
| 50 | 169 | 117 | 97 | 90 | 51 | 15 | 11 | F05/F03 | 184 | 44 | M8 | 271 | 91 | 89 |
| 63 | 204 | 132 | 117 | 105 | 64 | 15 | 10 | F05/F03 | 227 | 48 | M8 | 321 | 110 | 101 |
| 75 | 235 | 147 | 132 | 177 | 85 | 15 | 21 | F07 | 276 | 55 | M8 | 386 | 125 | 136 |
| 90 | 235 | 168 | 147 | 189 | 105 | 15 | 21 | F07 | 297 | 62 | M8 | 421 | 140 | 141 |






## COOL-FIT 2.0 Wafer-style butterfly valve kit type 567
## Hand lever with ratchet settings

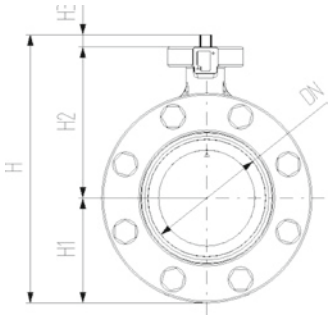
**Model:**

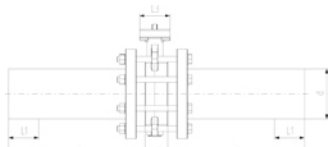
- Material: PVC-U with spigot PE100 SDR11, metric
- Including flange adaptors, backing flanges PP-Steel, bolts and insulation half shells

| d (mm) | DN (mm) | PN | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) |
|---|---|---|---|---|---|
| 110 | 100 | 10 | 6500 | **138 567 314** | 3.500 |
| 140 | 125 | 10 | 11500 | **138 567 316** | 4.500 |

| d (mm) | D (mm) | D1 (mm) | D2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | H (mm) | H1 (mm) | H2 (mm) | H3 (mm) | z (mm) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 110 | 260 | 188 | 168 | 552 | 72 | 255 | 106 | 325 | 104 | 167 | 55 | 696 | 320 | 56 |
| 140 | 287 | 233 | 208 | 662 | 84 | 255 | 106 | 352 | 117 | 181 | 55 | 830 | 383 | 64 |






## COOL-FIT 2.0 Butterfly valve kit type 567 PVC-U
## Bare shaft

**Model:**

- Material: PVC-U with spigot PE100 SDR11, metric
- Interface F07 according to DIN/ISO 5211
- Including flange adaptors, backing flanges PP-Steel, bolts and insulation half shells

| d (mm) | DN (mm) | PN | kv-value (Δp=1 bar) (l/min) | EPDM Code |
|---|---|---|---|---|
| 110 | 100 | 10 | 6500 | **138 567 414** |
| 140 | 125 | 10 | 11500 | **138 567 416** |

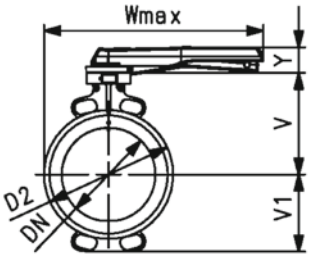
| d (mm) | D (mm) | D1 (mm) | D2 (mm) | L (mm) | L1 (mm) | L3 (mm) | H1 (mm) | H2 (mm) | H3 (mm) | z (mm) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 110 | 260 | 188 | 168 | 552 | 72 | 106 | 104 | 167 | 55 | 696 | 320 | 56 |
| 140 | 287 | 233 | 208 | 662 | 84 | 106 | 117 | 181 | 55 | 830 | 383 | 64 |



## Wafer-style, intermediate installation butterfly valve type 565 PVDF/PA-GF
## With hand lever
## Flange standard metric/ANSI/BS/JIS
## Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

**Model:**

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Lockable ergonmic lever
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

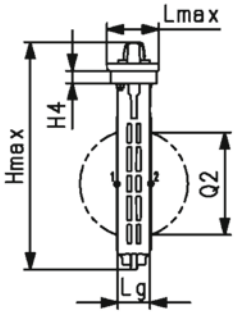


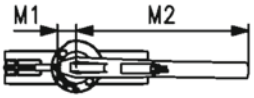

**Option:**

- Individual configuration of the valve possible
- Pneumatic or electric actuators from GF
- Double sensor for electrical position feedback  incl. LED feedback

**Note:**

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com




| d (mm) | Size (inch) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 63 | 2 | 50 | 16 | 1445 | **199 565 000** | 1.3 | **199 565 020** | 1.4 |
| 75 | 2 ½ | 65 | 16 | 2530 | **199 565 001** | 1.5 | **199 565 021** | 1.6 |
| 90 | 3 | 80 | 16 | 4020 | **199 565 002** | 1.7 | **199 565 022** | 1.8 |
| 110 | 4 | 100 | 16 | 5850 | **199 565 003** | 2.5 | **199 565 023** | 2.7 |
| 140 | 5 | 125 | 16 | 11900 | **199 565 004** | 3.1 | **199 565 024** | 3.3 |
| 160 | 6 | 150 | 16 | 18050 | **199 565 005** | 4.0 | **199 565 025** | 4.3 |
| 225 | 8 | 200 | 10 | 43667 | **199 565 006** | 5.3 | **199 565 026** | 5.7 |

| d (mm) | D2 (mm) | Wmax (mm) | Hmax (mm) | Lmax (mm) | H4 (mm) | V (mm) | V1 (mm) | Lg (mm) | M1 (mm) | M2 (mm) | Y (mm) | Q2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 100.0 | 264.0 | 249.5 | 96.0 | 23.0 | 133.5 | 63.0 | 43.0 | 35.5 | 204.5 | 53.0 | 28.5 |
| 75 | 121.0 | 271.0 | 275.5 | 96.0 | 23.0 | 140.0 | 82.0 | 46.0 | 35.5 | 204.5 | 53.0 | 44.0 |
| 90 | 138.0 | 273.5 | 288.0 | 96.0 | 23.0 | 146.0 | 89.0 | 46.0 | 35.5 | 204.5 | 53.0 | 63.5 |
| 110 | 158.5 | 334.0 | 324.0 | 96.0 | 23.0 | 166.5 | 104.0 | 52.0 | 35.5 | 254.5 | 53.0 | 84.0 |
| 140 | 187.0 | 348.0 | 351.0 | 96.0 | 23.0 | 180.0 | 118.0 | 56.0 | 35.5 | 254.5 | 53.0 | 110.5 |
| 160 | 213.0 | 426.0 | 372.5 | 96.0 | 23.0 | 189.0 | 130.5 | 56.0 | 35.5 | 319.5 | 53.0 | 137.5 |
| 225 | 267.0 | 453.0 | 422.0 | 96.0 | 23.0 | 209.5 | 159.0 | 60.0 | 35.5 | 319.5 | 53.0 | 190.5 |



## Wafer-style, intermediate installation butterfly valve type 565 PVDF/PA-GF
## Bare shaft
## Flange standard metric/ANSI/BS/JIS Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

**Model:**

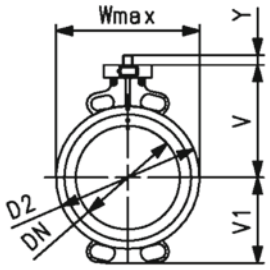
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

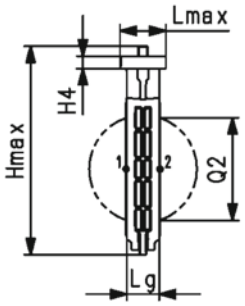
**Option:**

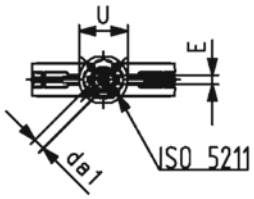
- Individual configuration of the valve possible
- Hand (lockable), pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

**Note:**

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



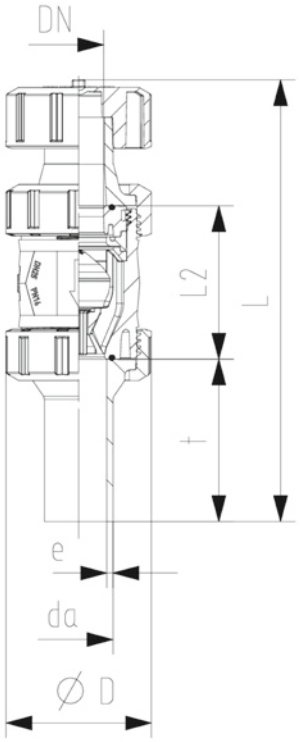




| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | Acc.to ISO 5211 | EPDM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 16 | 1445 | F07 | **199 565 100** | 0.9 |
| 75 | 65 | 2 ½ | 16 | 2530 | F07 | **199 565 101** | 1.1 |
| 90 | 80 | 3 | 16 | 4020 | F07 | **199 565 102** | 1.3 |
| 110 | 100 | 4 | 16 | 5850 | F07 | **199 565 103** | 2.0 |
| 140 | 125 | 5 | 16 | 11900 | F07 | **199 565 104** | 2.6 |
| 160 | 150 | 6 | 16 | 18050 | F07 | **199 565 105** | 3.7 |
| 225 | 200 | 8 | 10 | 43667 | F07 | **199 565 106** | 4.7 |
| 280 | 250 | 10 | 10 | 62333 | F10 | **199 565 107** | 8.8 |
| 315 | 300 | 12 | 6 | 94500 | F10 | **199 565 108** | 12.6 |

| d (mm) | FKM Code | Weight (kg) |
|---|---|---|
| 63 | **199 565 120** | 1.0 |
| 75 | **199 565 121** | 1.2 |
| 90 | **199 565 122** | 1.4 |
| 110 | **199 565 123** | 2.2 |
| 140 | **199 565 124** | 2.9 |
| 160 | **199 565 125** | 3.8 |
| 225 | **199 565 126** | 5.2 |
| 280 | **199 565 127** | 9.5 |
| 315 | **199 565 128** | 13.7 |

| d (mm) | D2 (mm) | Wmax (mm) | Lmax (mm) | Hmax (mm) | H4 (mm) | V (mm) | V1 (mm) | Lg (mm) | da1 (mm) | E (mm) | U (mm) | Y (mm) | Q2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 100.0 | 118.5 | 85.5 | 222.5 | 23.0 | 133.5 | 63.0 | 43.0 | 14.1 | 11.0 | 90.0 | 27.0 | 28.5 |
| 75 | 121.0 | 132.5 | 85.5 | 248.5 | 23.0 | 140.0 | 82.0 | 46.0 | 14.1 | 11.0 | 90.0 | 27.0 | 44.0 |
| 90 | 138.0 | 138.0 | 85.5 | 261.0 | 23.0 | 146.0 | 89.0 | 46.0 | 14.1 | 11.0 | 90.0 | 27.0 | 63.5 |
| 110 | 158.5 | 158.5 | 85.5 | 286.0 | 23.0 | 166.5 | 104.0 | 52.0 | 18.1 | 14.0 | 90.0 | 16.0 | 84.0 |
| 140 | 187.0 | 187.0 | 85.5 | 313.5 | 23.0 | 180.0 | 118.0 | 56.0 | 18.1 | 14.0 | 90.0 | 16.0 | 110.5 |
| 160 | 213.0 | 213.0 | 85.5 | 337.5 | 23.0 | 189.0 | 130.5 | 56.0 | 22.2 | 17.0 | 90.0 | 19.0 | 137.5 |
| 225 | 267.0 | 267.0 | 85.5 | 387.0 | 23.0 | 209.5 | 159.0 | 60.0 | 22.2 | 17.0 | 90.0 | 18.5 | 190.5 |
| 280 | 325.5 | 325.5 | 125.0 | 498.5 | 23.0 | 262.5 | 195.5 | 68.0 | 28.2 | 22.0 | 125.0 | 40.5 | 239.0 |
| 315 | 380.0 | 380.0 | 125.0 | 555.0 | 23.0 | 284.5 | 230.5 | 78.0 | 28.2 | 22.0 | 125.0 | 40.5 | 285.5 |





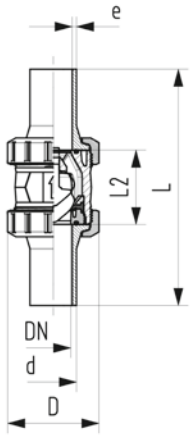

## ecoFIT Ventilating and bleed valve Type 591
## With butt fusion spigots long
## PE100 SDR11 metric

**Model:**

- Material: PVC-U/PE
- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length

| d (mm) | DN (mm) | PN (bar) | EPDM Code | FKM Code | D (mm) | L (mm) | L2 (mm) | t (mm) | e (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 15 | 16 | **161 591 121** | **161 591 130** | 50 | 175 | 56 | 69 | 2.25 | ½ |
| 25 | 20 | 16 | **161 591 122** | **161 591 131** | 58 | 195 | 65 | 76 | 2.30 | ¾ |
| 32 | 25 | 16 | **161 591 123** | **161 591 132** | 68 | 207 | 71 | 76 | 2.90 | 1 |
| 40 | 32 | 16 | **161 591 124** | **161 591 133** | 84 | 230 | 85 | 82 | 3.70 | 1 ¼ |
| 50 | 40 | 16 | **161 591 125** | **161 591 134** | 97 | 254 | 89 | 91 | 4.60 | 1 ½ |
| 63 | 50 | 16 | **161 591 126** | **161 591 135** | 124 | 298 | 101 | 110 | 5.80 | 2 |
| 75 | 65 | 16 | **161 591 127** | **161 591 136** | 166 | 334 | 136 | 125 | 6.80 | 2 ½ |
| 90 | 80 | 16 | **161 591 128** | **161 591 137** | 200 | 360 | 141 | 140 | 8.20 | 3 |
| 110 | 100 | 16 | **161 591 129** | **161 591 138** | 238 | 411 | 164 | 160 | 10.00 | 4 |






## ecoFIT Check valve type 561 PVC-U
## Without spring
## With butt fusion spigots long PE100 SDR11 metric

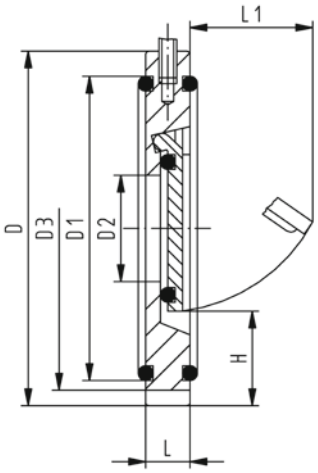
**Model:**

- Material: PVC-U/PE
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | SDR | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 16 | 180 | 11 | **161 561 142** | 0.130 | **800 050 344** | 0.130 |
| 25 | 20 | ¾ | 16 | 380 | 11 | **161 561 143** | 0.260 | **800 050 345** | 0.250 |
| 32 | 25 | 1 | 16 | 460 | 11 | **161 561 144** | 0.300 | **800 050 346** | 0.320 |
| 40 | 32 | 1 ¼ | 16 | 850 | 11 | **161 561 145** | 0.520 | **800 050 308** | 0.530 |
| 50 | 40 | 1 ½ | 16 | 1080 | 11 | **161 561 146** | 0.780 | **800 050 347** | 0.810 |
| 63 | 50 | 2 | 16 | 1670 | 11 | **161 561 147** | 1.410 | **800 050 348** | 1.530 |
| 75 | 65 | 2 ½ | 10 | 2950 | 11 | **161 561 148** | 3.260 | **800 050 837** | 3.160 |
| 90 | 80 | 3 | 10 | 3600 | 11 | **161 561 149** | 5.170 | **800 048 959** | 5.520 |
| 110 | 100 | 4 | 10 | 4150 | 11 | **161 561 150** | 8.310 | **800 050 839** | 8.930 |

| d (mm) | D (mm) | L (mm) | L2 (mm) | e (mm) | closest inch (inch) |
|---|---|---|---|---|---|
| 20 | 50 | 193 | 56 | 2.3 | ½ |
| 25 | 58 | 216 | 65 | 2.3 | ¾ |
| 32 | 68 | 223 | 71 | 3.0 | 1 |
| 40 | 84 | 249 | 85 | 3.7 | 1 ¼ |
| 50 | 97 | 271 | 89 | 4.6 | 1 ½ |
| 63 | 124 | 321 | 101 | 5.8 | 2 |
| 75 | 166 | 386 | 136 | | 2 ½ |
| 90 | 200 | 421 | 141 | 8.2 | 3 |
| 110 | 238 | 484 | 164 | 10.0 | 4 |






## Wafer check valve type 369 PVC-U
## Without spring

**Model:**

- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

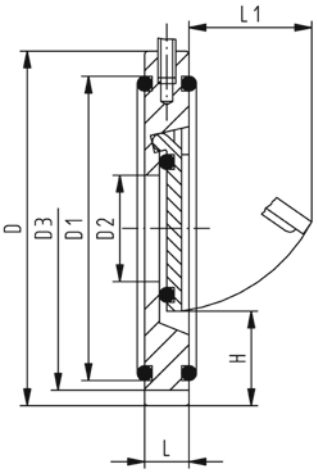
**Installation instruction:**

- Installation between ISO/DIN (all dimensions) and ANSI/BS flange adaptors (all except DN32 and DN125)
- Installation with ANSI/BS flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI/BS flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI/BS flange adaptor)
- Centering by body diameter (ISO/DIN by D3, ANSI/BS by D)
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- No direct installation on pump flange or following bend allowed
- The using of PVC-U pipe PN16 is only possible up to d63
- Wafer check valves without reset spring are not recommended for pulsating flows (production of noise)

| d (mm) | DN (mm) | Size (inch) | PN (bar) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 40 | 32 | 1 ¼ | 10 | **161 369 002** | 0.110 | **161 369 022** | 0.108 |
| 50 | 40 | 1 ½ | 10 | **161 369 003** | 0.174 | **161 369 023** | 0.202 |
| 63 | 50 | 2 | 10 | **161 369 004** | 0.273 | **161 369 024** | 0.277 |
| 75 | 65 | 2 ½ | 10 | **161 369 005** | 0.352 | **161 369 025** | 0.386 |
| 90 | 80 | 3 | 10 | **161 369 006** | 0.560 | **161 369 026** | 0.591 |
| 110 | 100 | 4 | 10 | **161 369 007** | 0.651 | **161 369 027** | 0.667 |
| 140 | 125 | 5 | 10 | **161 369 009** | 0.791 | **161 369 029** | 0.856 |
| 160 | 150 | 6 | 6 | **161 369 010** | 1.153 | **161 369 030** | 1.207 |
| 225 | 200 | 8 | 6 | **161 369 011** | 2.215 | **161 369 031** | 2.306 |
| 280 | 250 | 10 | 6 | **161 369 012** | 3.850 | **161 369 032** | 3.915 |
| 315 | 300 | 12 | 6 | **161 369 013** | 7.059 | **161 369 033** | 5.300 |

| d (mm) | D (mm) | D1 (mm) | D2 (mm) | D3 (mm) | L (mm) | L1 (mm) | H (mm) | Opening pressure vertical (mbar) | Opening pressure horizontal (mbar) | Minimum water column for sealing (m) |
|---|---|---|---|---|---|---|---|---|---|---|
| 40 | 85 | 59 | 18 | | 15 | 22 | 25 | 10 | 1 | 2 |
| 50 | 105 | 77 | 22 | 95 | 16 | 27 | 27 | 10 | 1 | 2 |
| 63 | 124 | 92 | 32 | 109 | 18 | 40 | 29 | 10 | 1 | 2 |
| 75 | 137 | 111 | 40 | 129 | 20 | 55 | 31 | 10 | 1 | 2 |
| 90 | 175 | 131 | 54 | 144 | 20 | 67 | 32 | 10 | 1 | 2 |
| 110 | 175 | 153 | 70 | 164 | 23 | 77 | 31 | 10 | 1 | 2 |
| 140 | 195 | 185 | 92 | | 23 | 94 | 35 | 10 | 1 | 2 |
| 160 | 222 | 198 | 105 | 220 | 26 | 100 | 41 | 10 | 1 | 2 |
| 225 | 279 | 259 | 154 | 275 | 34 | 152 | 38 | 18 | 1 | 2 |
| 280 | 340 | 311 | 192 | 330 | 40 | 180 | 41 | 18 | 1 | 2 |
| 315 | 410 | 347 | 227 | 380 | 45 | 215 | 41 | 18 | 1 | 2 |






## Wafer check valve type 369 PVC-U
## With V4A spring (stainless steel 316)

**Model:**

- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

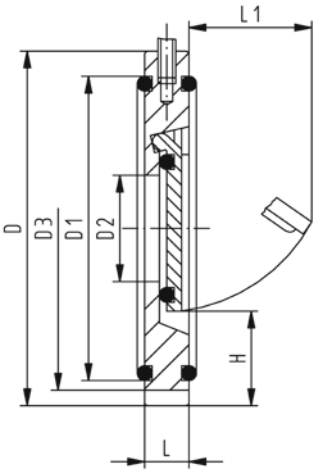
**Installation instruction:**

- Installation between ISO/DIN (all dimensions) and ANSI/BS flange adaptors (all except DN32 and DN125)
- Installation with ANSI/BS flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI/BS flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI/BS flange adaptor)
- Centering by body diameter (ISO/DIN by D3, ANSI/BS by D)
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- No direct installation on pump flange or following bend allowed
- The using of PVC-U pipe PN16 is only possible up to d63

| d (mm) | DN (mm) | Size (inch) | PN (bar) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 40 | 32 | 1 ¼ | 10 | **161 369 042** | 0.130 | **161 369 062** | 0.107 |
| 50 | 40 | 1 ½ | 10 | **161 369 043** | 0.160 | **161 369 063** | 0.206 |
| 63 | 50 | 2 | 10 | **161 369 044** | 0.273 | **161 369 064** | 0.250 |
| 75 | 65 | 2 ½ | 10 | **161 369 045** | 0.357 | **161 369 065** | 0.320 |
| 90 | 80 | 3 | 10 | **161 369 046** | 0.561 | **161 369 066** | 0.390 |
| 110 | 100 | 4 | 10 | **161 369 047** | 0.651 | **161 369 067** | 0.684 |
| 140 | 125 | 5 | 10 | **161 369 049** | 0.791 | **161 369 069** | 0.750 |
| 160 | 150 | 6 | 6 | **161 369 050** | 1.171 | **161 369 070** | 1.100 |
| 225 | 200 | 8 | 6 | **161 369 051** | 2.252 | **161 369 071** | 2.100 |
| 280 | 250 | 10 | 6 | **161 369 052** | 3.790 | **161 369 072** | 3.500 |
| 315 | 300 | 12 | 6 | **161 369 053** | 6.274 | **161 369 073** | 5.300 |

| d (mm) | D (mm) | D1 (mm) | D2 (mm) | D3 (mm) | L (mm) | L1 (mm) | H (mm) | Opening pressure vertical (mbar) | Opening pressure horizontal (mbar) | Minimum water column for sealing (m) |
|---|---|---|---|---|---|---|---|---|---|---|
| 40 | 85 | 59 | 18 | | 15 | 22 | 25 | 30 | 20 | 2 |
| 50 | 105 | 77 | 22 | 95 | 16 | 27 | 27 | 30 | 20 | 2 |
| 63 | 124 | 92 | 32 | 109 | 18 | 40 | 29 | 30 | 20 | 2 |
| 75 | 137 | 111 | 40 | 129 | 20 | 55 | 31 | 30 | 20 | 2 |
| 90 | 175 | 131 | 54 | 144 | 20 | 67 | 32 | 30 | 20 | 2 |
| 110 | 175 | 153 | 70 | 164 | 23 | 77 | 31 | 30 | 20 | 2 |
| 140 | 195 | 185 | 92 | | 23 | 94 | 35 | 30 | 20 | 2 |
| 160 | 222 | 198 | 105 | 220 | 26 | 100 | 41 | 30 | 20 | 2 |
| 225 | 279 | 259 | 154 | 275 | 34 | 152 | 38 | 38 | 20 | 2 |
| 280 | 340 | 311 | 192 | 330 | 40 | 180 | 41 | 38 | 20 | 2 |
| 315 | 410 | 347 | 227 | 380 | 45 | 215 | 41 | 38 | 20 | 2 |






## Wafer check valve type 369 PVC-U
## With Hastelloy C spring

**Model:**

- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

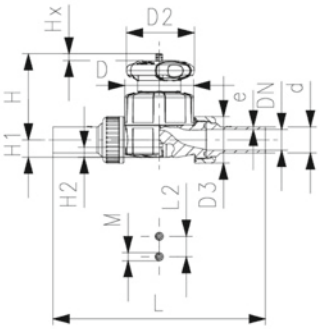
**Installation instruction:**

- Installation between ISO/DIN (all dimensions) and ANSI/BS flange adaptors (all except DN32 and DN125)
- Installation with ANSI/BS flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI/BS flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI/BS flange adaptor)
- Centering by body diameter (ISO/DIN by D3, ANSI/BS by D)
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- No direct installation on pump flange or following bend allowed
- The using of PVC-U pipe PN16 is only possible up to d63

| d (mm) | DN (mm) | Size (inch) | PN (bar) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 40 | 32 | 1 ¼ | 10 | **161 369 082** | 0.130 | **161 369 102** | 0.130 |
| 50 | 40 | 1 ½ | 10 | **161 369 083** | 0.174 | **161 369 103** | 0.160 |
| 63 | 50 | 2 | 10 | **161 369 084** | 0.250 | **161 369 104** | 0.277 |
| 75 | 65 | 2 ½ | 10 | **161 369 085** | 0.320 | **161 369 105** | 0.320 |
| 90 | 80 | 3 | 10 | **161 369 086** | 0.390 | **161 369 106** | 0.390 |
| 110 | 100 | 4 | 10 | **161 369 087** | 0.654 | **161 369 107** | 0.550 |
| 140 | 125 | 5 | 10 | **161 369 089** | 0.750 | **161 369 109** | 0.750 |
| 160 | 150 | 6 | 6 | **161 369 090** | 1.164 | **161 369 110** | 1.100 |
| 225 | 200 | 8 | 6 | **161 369 091** | 2.100 | **161 369 111** | 2.100 |
| 280 | 250 | 10 | 6 | **161 369 092** | 3.500 | **161 369 112** | 3.500 |
| 315 | 300 | 12 | 6 | **161 369 093** | 5.300 | **161 369 113** | 5.300 |

| d (mm) | D (mm) | D1 (mm) | D2 (mm) | D3 (mm) | L (mm) | L1 (mm) | H (mm) | Opening pressure vertical (mbar) | Opening pressure horizontal (mbar) | Minimum water column for sealing (m) |
|---|---|---|---|---|---|---|---|---|---|---|
| 40 | 85 | 59 | 18 | | 15 | 22 | 25 | 30 | 20 | 2 |
| 50 | 105 | 77 | 22 | 95 | 16 | 27 | 27 | 30 | 20 | 2 |
| 63 | 124 | 92 | 32 | 109 | 18 | 40 | 29 | 30 | 20 | 2 |
| 75 | 137 | 111 | 40 | 129 | 20 | 55 | 31 | 30 | 20 | 2 |
| 90 | 175 | 131 | 54 | 144 | 20 | 67 | 32 | 30 | 20 | 2 |
| 110 | 175 | 153 | 70 | 164 | 23 | 77 | 31 | 30 | 20 | 2 |
| 140 | 195 | 185 | 92 | | 23 | 94 | 35 | 30 | 20 | 2 |
| 160 | 222 | 198 | 105 | 220 | 26 | 100 | 41 | 30 | 20 | 2 |
| 225 | 279 | 259 | 154 | 275 | 34 | 152 | 38 | 38 | 20 | 2 |
| 280 | 340 | 311 | 192 | 330 | 40 | 180 | 41 | 38 | 20 | 2 |
| 315 | 410 | 347 | 227 | 380 | 45 | 215 | 41 | 38 | 20 | 2 |






## ecoFIT Diaphragm valve type 514
## With butt and electro fusion ends PE100 SDR11 metric

**Model:**

- Material: PVC-U/PE
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

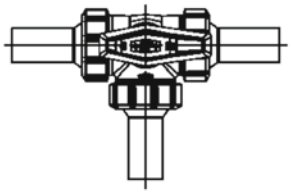
**Option:**

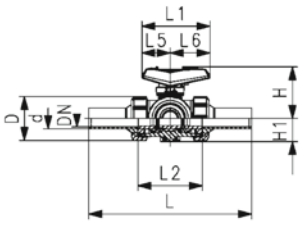
- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches
- PN16 available as a configuration

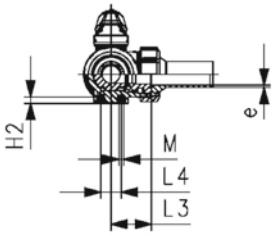
| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 125 | **161 514 312** | 0.357 |
| 25 | 20 | ¾ | 10 | 271 | **161 514 313** | 0.431 |
| 32 | 25 | 1 | 10 | 481 | **161 514 314** | 0.683 |
| 40 | 32 | 1 ¼ | 10 | 759 | **161 514 315** | 1.443 |
| 50 | 40 | 1 ½ | 10 | 1263 | **161 514 316** | 1.663 |
| 63 | 50 | 2 | 10 | 1728 | **161 514 317** | 2.568 |

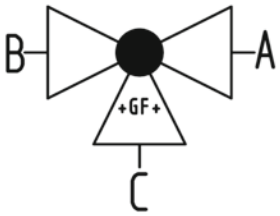
| d (mm) | D (mm) | D2 (mm) | D3 (mm) | L (mm) | L2 (mm) | H (mm) | H1 (mm) | H2 (mm) | M | Lift = Hx (mm) | e (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 65 | 65 | 43 | 196 | 25 | 73 | 14 | 12 | M6 | 7 | 1.9 | ½ |
| 25 | 80 | 65 | 51 | 221 | 25 | 81 | 18 | 12 | M6 | 10 | 2.3 | ¾ |
| 32 | 88 | 87 | 58 | 234 | 25 | 107 | 22 | 12 | M6 | 13 | 2.9 | 1 |
| 40 | 101 | 87 | 72 | 260 | 45 | 115 | 26 | 15 | M8 | 15 | 3.7 | 1 ¼ |
| 50 | 117 | 135 | 83 | 284 | 45 | 148 | 32 | 15 | M8 | 19 | 4.6 | 1 ½ |
| 63 | 144 | 135 | 100 | 321 | 45 | 166 | 39 | 15 | M8 | 25 | 5.8 | 2 |











## ecoFIT 3-Way ball valve type 543 Pro PVC-U
## Horizontal/L-port
## With butt fusion spigots long PE100 SDR11 metric

**Model:**

- Material: PVC-U/PE
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

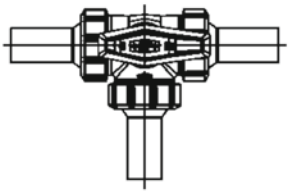
**Option:**

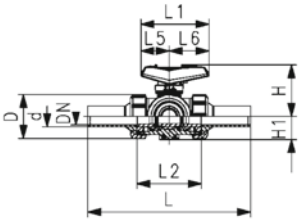
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

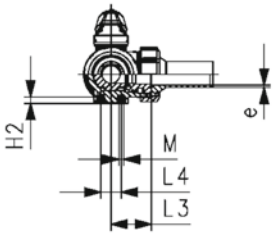
| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 75 | **161 543 462** | 0.254 | **161 543 472** | 0.254 |
| 25 | 20 | ¾ | 10 | 150 | **161 543 463** | 0.370 | **161 543 473** | 0.370 |
| 32 | 25 | 1 | 10 | 280 | **161 543 464** | 0.563 | **161 543 474** | 0.563 |
| 40 | 32 | 1 ¼ | 10 | 480 | **161 543 465** | 0.953 | **161 543 475** | 0.953 |
| 50 | 40 | 1 ½ | 10 | 620 | **161 543 466** | 1.444 | **161 543 476** | 1.444 |
| 63 | 50 | 2 | 10 | 1230 | **161 543 467** | 3.141 | **161 543 477** | 3.141 |

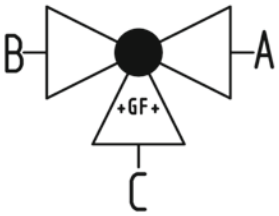
| d (mm) | D (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | H (mm) | H1 (mm) | H2 (mm) | M | e (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 210 | 82 | 73 | 36 | 25 | 35 | 47 | 61 | 28 | 8 | 6 | 1.9 | ½ |
| 25 | 58 | 237 | 106 | 86 | 43 | 25 | 44 | 62 | 74 | 32 | 8 | 6 | 2.3 | ¾ |
| 32 | 68 | 251 | 106 | 99 | 50 | 25 | 44 | 62 | 80 | 36 | 8 | 6 | 2.9 | 1 |
| 40 | 84 | 283 | 131 | 120 | 60 | 45 | 57 | 74 | 95 | 45 | 9 | 8 | 3.7 | 1 ¼ |
| 50 | 97 | 319 | 131 | 137 | 69 | 45 | 57 | 74 | 102 | 51 | 9 | 8 | 4.6 | 1 ½ |
| 63 | 124 | 399 | 152 | 179 | 89 | 45 | 66 | 86 | 117 | 65 | 9 | 8 | 5.8 | 2 |

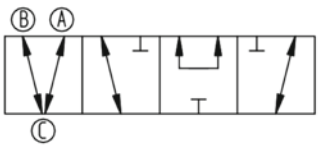







## ecoFIT 3-Way ball valve type 543 Pro PVC-U
## Horizontal/T-port
## With butt fusion spigots long PE100 SDR11 metric

**Model:**

- Material: PVC-U/PE
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

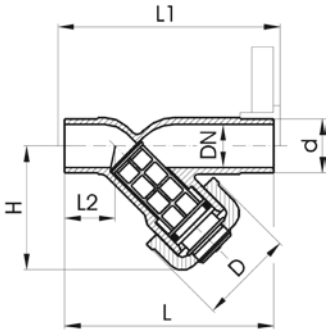
**Option:**

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 200 | **161 543 482** | 0.253 | **161 543 492** | 0.253 |
| 25 | 20 | ¾ | 10 | 470 | **161 543 483** | 0.368 | **161 543 493** | 0.368 |
| 32 | 25 | | 10 | 793 | **161 543 484** | 0.556 | **161 543 494** | 0.556 |
| 40 | 32 | 1 ¼ | 10 | 1290 | **161 543 485** | 0.942 | **161 543 495** | 0.942 |
| 50 | 40 | 1 ½ | 10 | 1910 | **161 543 486** | 1.423 | **161 543 496** | 1.423 |
| 63 | 50 | 2 | 10 | 3100 | **161 543 487** | 2.770 | **161 543 497** | 3.096 |

| d (mm) | D (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | H (mm) | H1 (mm) | H2 (mm) | M | e (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 210 | 82 | 73 | 36 | 25 | 35 | 47 | 61 | 28 | 8 | 6 | 1.9 | ½ |
| 25 | 58 | 237 | 106 | 86 | 43 | 25 | 44 | 62 | 74 | 32 | 8 | 6 | 2.3 | ¾ |
| 32 | 68 | 251 | 106 | 99 | 50 | 25 | 44 | 62 | 80 | 36 | 8 | 6 | 2.9 | 1 |
| 40 | 84 | 283 | 131 | 120 | 60 | 45 | 57 | 74 | 95 | 45 | 9 | 8 | 3.7 | 1 ¼ |
| 50 | 97 | 319 | 131 | 137 | 69 | 45 | 57 | 74 | 102 | 51 | 9 | 8 | 4.6 | 1 ½ |
| 63 | 124 | 399 | 152 | 179 | 89 | 45 | 66 | 86 | 117 | 65 | 9 | 8 | 5.8 | 2 |






### Line strainer type 305 PVC-U
### With solvent cement spigots metric

**Model:**

- Protects valves, pumps, etc. from becoming soiled
- Easy dismantling for cleaning the screens
- **Screen perforation need be ordered separately**
- Overall length according to EN 558

| d (mm) | DN (mm) | Size (inch) | PN (bar) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | **161 305 300** | 0.101 | **161 305 349** | 0.134 |
| 25 | 20 | ¾ | 10 | **161 305 350** | 0.141 | **161 305 399** | 0.215 |
| 32 | 25 | 1 | 10 | **161 305 400** | 0.226 | **161 305 449** | 0.257 |
| 40 | 32 | 1 ¼ | 10 | **161 305 450** | 0.348 | **161 305 499** | 0.386 |
| 50 | 40 | 1 ½ | 10 | **161 305 500** | 0.600 | **161 305 549** | 0.632 |
| 63 | 50 | 2 | 10 | **161 305 550** | 0.985 | **161 305 599** | 1.045 |
| 75 | 65 | 2 ½ | 10 | **161 305 600** | 1.868 | **161 305 649** | 1.871 |
| 90 | 80 | 3 | 10 | **161 305 650** | 2.590 | **161 305 699** | 2.585 |

| d (mm) | D (mm) | H (mm) | L (mm) | L1 (mm) | L2 (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|
| 20 | 43 | 65 | 124 | 130 | 28 | ½ |
| 25 | 47 | 76 | 144 | 150 | 37 | ¾ |
| 32 | 56 | 90 | 154 | 160 | 37 | 1 |
| 40 | 64 | 104 | 174 | 180 | 44 | 1 ¼ |
| 50 | 82 | 124 | 194 | 200 | 48 | 1 ½ |
| 63 | 95 | 148 | 224 | 230 | 60 | 2 |
| 75 | 106 | 188 | 284 | 290 | 74 | 2 ½ |
| 90 | 120 | 205 | 300 | 310 | 85 | 3 |

# COOL-FIT 2.0 Accessories

## Tools



### COOL-FIT 2.0/4.0 Foam removal and peeling tool

**Model:**

- Tool for foam removal and peeling of COOL-FIT 2.0 and 4.0 pipes

| d (mm) | Code | Weight (kg) | SDR |
|---|---|---|---|
| 32-90 | **799 738 001** | 10.500 | SDR11 |
| 110-225 | **799 738 003** | 16.500 | d110+d140 SDR11; d160+d225 SDR17 |



## COOL-FIT 2.0/4.0 Upgrade kit foam removal and peeling tool d140-d225

**Model:**

- Upgrade for COOL-FIT 2.0/4.0 foam removal and peeling tool d110-d225 (799738003)
- For easier foam removal and peeling of COOL-FIT 2.0 and 4.0 pipes in the dimensions d140-d225

**Note:**

Spindle and clamping shoes are to be used of COOL-FIT 2.0/4.0 foam removal and peeling tool799738003, or 799738015 respectively.

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 140-225 | **799 738 013** | 50.000 |

## MSA 2.1 Automatic Electrofusion Unit with Bluetooth connectivity and protocols export




The MSA 2.1 automatic electro fusion unit combines light weight and high efficiency, thanks to its inverter technology and furthermore provides fusion documentation in PDF. The unit is extremely fast and simple, with three basic operations required to operator: connect, scan, start the fusion. It is robust, safe and ergonomic.
All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive. The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.
The internal Bluetooth Low Energy device offers the possibility to enter data, monitor the fusion from remote and collect the data recorded via wireless with consumer smartphones, to send them to the headquarter even in real time.
The unit can keep up to 1000 protocols permanently stored in the internal memory. The user can export the fusion reports to an USB stick to print them out in PDF format.
Scope of delivery includes: transport box, angle adapters (4.0 mm and 4.7 mm), operating instructions, START/STOP badge and USB memory stick with PC applications.

**Technical Data:**

- Operating temperature: -20°C to +50°C
- Mains voltage and frequency: 230V (190V - 265V), 50-60Hz
- Fusion voltage: 8-42 V (48 V)
- Fusion data input mode: bar code, manual
- Fusion current: 90 A (max)
- Suggested power generators: 3.5 kVA
- USB Port: Type A
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m / Fusion cable: 4 m (8 m only for code 790156010)
- Weight: ca. 11.9 kg
- Display: Graphical LCD, adjustable contrast
- Independent from languages
- Bluetooth radio interface

| Description | Code | Weight (kg) |
|---|---|---|
| Barcode scanner, transport case, mini Welding Book | **790 156 003** | 11.900 |
| Barcode scanner, transport case, mini Welding Book, Swiss plug | **790 156 006** | 11.900 |
| Barcode scanner, transport case, mini Welding Book, 8m fusion cable | **790 156 010** | 12.900 |




## COOL-FIT 2.0/4.0 Installation tool weld-in port

**Model:**

- Tool for the installation of weld-in ports to COOL-FIT pipes
- Complete: toolcase equipped with all necessary tool components to install weld-in ports 1/2"-1" and d16-d50
- Basic: toolcase equipped with all necessary tool components to install weld-in ports 1/2"-1" and d16-d32 and the possibility to upgrade with d40+d50
- Upgrade kit: kit to upgrade basic tool to complete tool
- Version 230V with AC power plug CEE 7/4 (Schuko)
- Version 110V with AC power plug NEMA 5-15 grounded (Type B)

**Note:**

For pipes COOL-FIT 2.0, COOL-FIT 2.0F, COOL-FIT 4.0 and COOL-FIT 4.0F of the dimension d63-d225
Type A) Complete: toolcase equipped with all necessary tool components to install weld-in ports 1/2"-1" and d16-d50
Type B) Basic: toolcase equipped with all necessary tool components to install weld-in ports 1/2"-1" and d16-d32 and the possibility to upgrade with d40+d50
Type C) Upgrade kit: kit to upgrade basic tool to complete tool

| Type | Voltage | Code | Weight (kg) |
|---|---|---|---|
| A | 230 V | **799 738 300** | 20.700 |
| B | 230 V | **799 738 301** | 14.100 |
| A | 110 V | **799 738 302** | 20.700 |
| B | 110 V | **799 738 303** | 14.100 |
| C | | **799 738 310** | 7.000 |



## Clamping tool
## Double, multi size with universal link

- Recommended for the installation of fittings ELGEF Plus and ecoFIT d40 - 200 and d160 - 630mm
- Recommended for the installation of fittings COOL-FIT d32/D75 - d140/D200 and d160/D250 - d450/D630
- The clamping allows installation without tension and avoids movement during fusion and cooling time
- The centrally located adjustable universal link allows installation of electrofusion couplers, elbows and reducers
- Works above, below and alongside the joint
- Adaptor for use with Tee-pieces available (see accessories)

| d (mm) | d1 (mm) | Code | Weight (kg) |
|---|---|---|---|
| 40 | 200 | **799 301 490** | 4.200 |
| 160 | 630 | **799 301 496** | 14.100 |

| d (mm) | Description | Length (mm) | Width (mm) | Height (mm) |
|---|---|---|---|---|
| 40 | Scope of delivery: 2 x V-block, 2 x Straight bar, 1 x Universal link, Transport bag (600x380x250) | 900 | 290 | 230 |
| 160 | Scope of delivery: 2 x V-block, 2 x Straight bar, 1 x Universal link, Transport bag (780x780x580) | 1300 | 670 | 550 |



## Clamping tool
## Quadruple, multi size with universal link

- Recommended for the installation of fittings ELGEF Plus and ecoFIT d40 - 200 and d160 - 630mm
- Recommended for the installation of fittings COOL-FIT d32/D75 - d140/D200 and d160/D250 - d450/D630
- The clamping allows installation without tension and avoids movement during fusion and cooling time
- The centrally located adjustable universal link allows installation of electrofusion couplers, elbows and reducers
- Universal use; works above, below and alongside the joint
- Adaptor for use with Tee-pieces available (see accessories)

| d (mm) | d1 (mm) | Code | Weight (kg) | Description | L (mm) | W (mm) | H (mm) |
|---|---|---|---|---|---|---|---|
| 40 | 200 | **799 301 489** | 8.300 | Scope of delivery: 4 x V-block, 2 x Straight bar, 1 x Universal link | 900 | 290 | 230 |
| 160 | 630 | **799 301 495** | 23.300 | Scope of delivery: 4 x V-block, 2 x Straight bar, 1 x Universal link | 1300 | 670 | 550 |



## Tee adaptor

- Suitable for clamping tool (799301495)

| d (mm) | d1 (mm) | Code | Weight (kg) | Description | Length (mm) | Width (mm) | Height (mm) |
|---|---|---|---|---|---|---|---|
| 40 | 200 | **799 301 491** | 0.610 | Tee adaptor | 600 | 50 | 40 |
| 160 | 630 | **799 301 497** | 3.500 | Tee adaptor | 1070 | 75 | 60 |



## V-block

- Suitable for clamping tool (799301495)

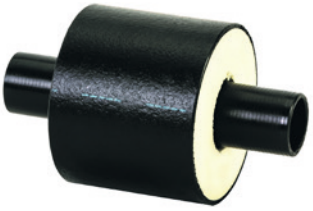
| d (mm) | d1 (mm) | Code | Weight (kg) | Description | Length (mm) | Width (mm) | Height (mm) |
|---|---|---|---|---|---|---|---|
| 40 | 200 | **799 301 492** | 1.000 | V-block complete | 290 | 230 | 65 |
| 160 | 630 | **799 301 498** | 3.200 | V-block complete | 660 | 430 | 90 |

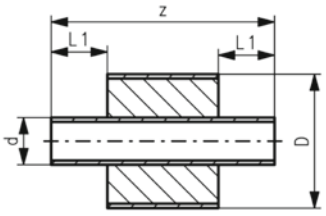


## Bar extension

- Suitable for clamping tool (799301495)

| d (mm) | d1 (mm) | Code | Weight (kg) | Description | L (mm) | W (mm) | H (mm) |
|---|---|---|---|---|---|---|---|
| 160 | 630 | **799 301 499** | 1.000 | Bar extension | 1000 | 40 | 40 |





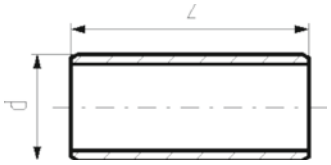

## COOL-FIT 2.0 Barrel nipple with insulation, d32-d140

**Model:**

- Pre-insulated PE100 SDR11 metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- For short connections between COOL-FIT 2.0 Fittings Typ A

| d (mm) | D (mm) | SDR | PN (bar) | Code | Weight (kg) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|
| 32 | 75 | 11 | 16 | **738 914 408** | 0.072 | 36 | 121 |
| 40 | 90 | 11 | 16 | **738 914 409** | 0.104 | 40 | 125 |
| 50 | 90 | 11 | 16 | **738 914 410** | 0.136 | 44 | 133 |
| 63 | 110 | 11 | 16 | **738 914 411** | 0.216 | 48 | 141 |
| 75 | 125 | 11 | 16 | **738 914 412** | 0.313 | 55 | 155 |
| 90 | 140 | 11 | 16 | **738 914 413** | 0.459 | 62 | 169 |
| 110 | 160 | 11 | 16 | **738 914 414** | 0.712 | 72 | 189 |
| 140 | 200 | 11 | 16 | **738 914 416** | 1.226 | 90 | 213 |






## COOL-FIT 2.0/4.0 Barrel nipple

**Model:**

- PE100, SDR11/17, metric
- For the shortest possible connection between fittings
- For media temperatures between 0°C up to 60°C
- COOl-FIT 4.0 Adhesive ring needed for joining

| d (mm) | DN (mm) | SDR | PN | Code | Weight (kg) | z (mm) |
|---|---|---|---|---|---|---|
| 32 | 25 | 11 | 16 | **738 910 408** | 0.020 | 76 |
| 40 | 32 | 11 | 16 | **738 910 409** | 0.034 | 80 |
| 50 | 40 | 11 | 16 | **738 910 410** | 0.059 | 88 |
| 63 | 50 | 11 | 16 | **738 910 411** | 0.101 | 96 |
| 75 | 65 | 11 | 16 | **738 910 412** | 0.162 | 110 |
| 90 | 80 | 11 | 16 | **738 910 413** | 0.264 | 124 |
| 110 | 100 | 11 | 16 | **738 910 414** | 0.454 | 144 |
| 140 | 125 | 11 | 16 | **738 910 416** | 0.855 | 168 |
| 160 | 150 | 17 | 10 | **738 910 417** | 0.798 | 180 |
| 225 | 200 | 17 | 10 | **738 910 420** | 1.885 | 220 |



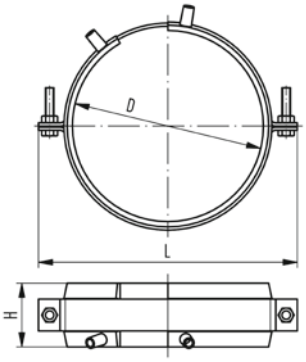
## COOL-FIT 2.0/4.0 adhesive ring

**Model:**

- Double sided,  for sealing connections of fittings with barrel nipple

| D (mm) | d (mm) | d COOL-FIT 4.0 (mm) | d COOL-FIT 2.0 (mm) | Code | Weight (kg) |
|---|---|---|---|---|---|
| 75 | 32 | | 32 | **738 010 012** | 0.002 |
| 90 | 32 - 50 | 32 | 40 - 50 | **738 010 013** | 0.002 |
| 110 | 40 - 63 | 40 - 50 | 63 | **738 010 014** | 0.003 |
| 125 | 63 - 75 | 63 | 75 | **738 010 015** | 0.003 |
| 140 | 75 - 90 | 75 | 90 | **738 010 016** | 0.003 |
| 160 | 90 - 110 | 90 | 110 | **738 010 017** | 0.005 |
| 180 | 110 | 110 | | **738 010 018** | 0.005 |
| 200 | 140 | | 140 | **738 010 019** | 0.006 |
| 225 | 140 | 140 | | **738 010 020** | 0.009 |
| 250 | 160 | 160 | | **738 010 021** | 0.009 |
| 315 | 225 | 225 | | **738 010 023** | 0.027 |






## COOL-FIT 2.0/4.0 Fixed point

**Model:**

- The product consists of two components namely electrofusion tapes and pipe brackets.
- Electrofusion welded tape as permanent connection to transmit the forces that occur in the pipe to the fixed point.
- The delivered pipe brackets are needed to deliver welding pressure during installtion and give stability during operation.
- For welding, use an MSA2.x, MSA4.x, MSA 250, 300, 350, 400 or commercially available 220 V fusion machines.
- If you use an MSA fusion machine from GF Piping Systems, use the 799 350 339 adapter or the 790 156 032 y-cable set.
- Please take note of the maximum allowed forces for this version in the table below.
- **Fixed point brackets and cross braces have to be calculated and obtained by the installer. They are not included in the fixed point set from GF.**

| D (mm) | d (mm) | d COOL-FIT 4.0 (mm) | d COOL-FIT 2.0 (mm) | Code | Weight (kg) |
|---|---|---|---|---|---|
| 75 | 32 | | 32 | **738 912 012** | 0.750 |
| 90 | 32 - 50 | 32 | 40 - 50 | **738 912 013** | 0.895 |
| 110 | 40 - 63 | 40 - 50 | 63 | **738 912 014** | 0.904 |
| 125 | 63 - 75 | 63 | 75 | **738 912 015** | 1.103 |
| 140 | 75 - 90 | 75 | 90 | **738 912 016** | 1.188 |
| 160 | 90 - 110 | 90 | 110 | **738 912 017** | 1.177 |
| 180 | 110 | 110 | | **738 912 018** | 1.530 |
| 200 | 140 | | 140 | **738 912 019** | 1.600 |
| 225 | 140 | 140 | | **738 912 020** | 1.813 |
| 250 | 160 | 160 | | **738 912 021** | 1.957 |
| 315 | 225 | 225 | | **738 912 023** | 2.388 |
| 355 | 250 | 250 | | **738 912 024** | 2.388 |

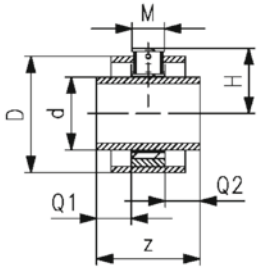
| D (mm) | d (mm) | L (mm) | H (mm) | max Force COOL-FIT 4.0 (kN) | max Force COOL-FIT 2.0 (kN) |
|---|---|---|---|---|---|
| 75 | 32 | 150 | 60 | | 2.0 |
| 90 | 32 - 50 | 170 | 60 | 2.0 | 3.0 / 5.0 |
| 110 | 40 - 63 | 180 | 60 | 3.0 / 5.0 | 8.0 |
| 125 | 63 - 75 | 215 | 60 | 8.0 | 10.0 |
| 140 | 75 - 90 | 220 | 60 | 10.0 | 10.0 |
| 160 | 90 - 110 | 255 | 60 | 10.0 | 10.0 |
| 180 | 110 | 255 | 60 | 10.0 | |
| 200 | 140 | 310 | 60 | | 10.0 |
| 225 | 140 | 310 | 60 | 10.0 | |
| 250 | 160 | 335 | 60 | 10.0 | |
| 315 | 225 | 400 | 60 | 10.0 | |
| 355 | 250 | 420 | 60 | 10.0 | |



## COOL-FIT 2.0 Fixpoint kit for high forces

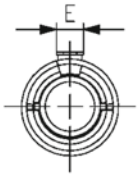
**Model:**

- The product consists of fixpoint, pipe section and insulation kit
- Fixed point for installation between two electrofusion fittings, transmits the forces emanating from the pipe to the fixed point
- Pipe section PE100 SDR11, metric
- Fixpoint with welding plate made from S235JR (1.0038). With corrosion protection coating
- Insulation made from EPDM soft foam. For outdoor application use additional protection
- Please take note of the maximum allowed forces for this version in the table below.
- A force calculation of the fixpoint clamp and the attachment point is required
- For the bonding, adhesive 738010060 is recommended




| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 140 | 200 | 125 | 11 | 16 | **738 914 816** | 7.950 |

| z (mm) | Q1 (mm) | Q2 (mm) | Dos (mm) | H (mm) | M (mm) | E (mm) | Wrench size (mm) | max. Force (kN) |
|---|---|---|---|---|---|---|---|---|
| 268 | 84 | 84 | 244 | 137 | 100 | 100 | 24 | 35 |






## COOL-FIT Y cables kit

- The COOL-FIT Y cables are used to speed up the installation of the fixed points electrofusion tapes. The Y cables allow the welding in parallel of 2 E-Tapes, halving the total duration of the fusion process.
- Compatible with all MSA Units

| Description | Code | Weight (kg) |
|---|---|---|
| 4 leads cable with 2mm plugs in output | **790 156 032** | 0.385 |




## COOL-FIT 2.0/4.0 Adhesive cement

**Model:**

- For the jointing of NBR foam insulations of flexible hoses and transition fittings

| Code | Weight (kg) |
|---|---|
| **738 010 060** | 0.240 |



### COOL-FIT 2.0/4.0 Adhesive tape

**Model:**

- For the jointing of NBR foam insulations of flexible hoses and transition fittings
- 30m on a roll

| Code | Weight (kg) |
|---|---|
| **738 010 065** | 0.400 |

# COOL-FIT 2.0 Spare Parts



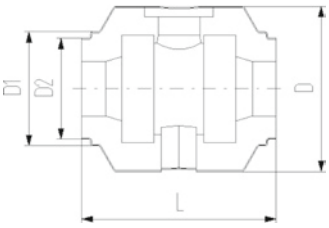
### COOL-FIT 2.0/4.0 Insulation for ball valve type 546 / 542

**Model:**

- Set consisting of half shells and clamps

**Note:**

Suitable for COOL-FIT ball valve only




| d (mm) | D (mm) | DN (mm) | Code | Weight (kg) | D1 (mm) | D2 (mm) | L (mm) |
|---|---|---|---|---|---|---|---|
| 32 | 135 | 25 | **738 990 308** | 0.160 | 97 | 82 | 152 |
| 40 | 157 | 32 | **738 990 309** | 0.228 | 117 | 97 | 170 |
| 50 | 169 | 40 | **738 990 310** | 0.282 | 117 | 97 | 184 |
| 63 | 204 | 50 | **738 990 311** | 0.498 | 132 | 117 | 227 |
| 75 | 235 | 65 | **738 990 312** | 0.935 | 147 | 132 | 276 |
| 90 | 255 | 80 | **738 990 313** | 1.033 | 168 | 147 | 297 |



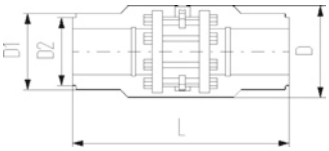
### COOL-FIT 2.0/4.0 Insulation for Butterfly Valve Type 567

**Model:**

- Set consisting of half shells and clamps

**Note:**

Suitable for COOL-FIT butterfly valve only




| d (mm) | D (mm) | DN (mm) | Code | Weight (kg) | D1 (mm) | D2 (mm) | L (mm) |
|---|---|---|---|---|---|---|---|
| 110 | 310 | 100 | **738 990 324** | 2.054 | 188 | 168 | 556 |
| 140 | 287 | 125 | **738 990 326** | 2.947 | 233 | 208 | 662 |
| 160 | 358 | 150 | **738 990 327** | 3.675 | 259 | | 720 |
| 225 | 409 | 200 | **738 990 330** | 4.811 | 325 | | 776 |



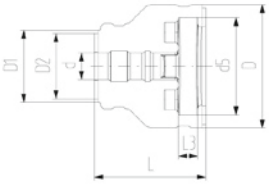
### COOL-FIT 2.0/4.0 Insulation for flange adaptor

**Model:**

- Set consisting of half shells and clamps

**Note:**

Suitable for COOL-FIT flange adaptor only




| d (mm) | D (mm) | DN (mm) | Code | Weight (kg) | D1 (mm) | D2 (mm) | L (mm) | L3 (mm) | d5 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 32 | 135 | 25 | **738 990 458** | 0.230 | 90 | 75 | 162 | 26 | 121 |
| 40 | 170 | 32 | **738 990 459** | 0.340 | 110 | 90 | 165 | 28 | 146 |
| 50 | 180 | 40 | **738 990 460** | 0.400 | 110 | 90 | 178 | 30 | 156 |
| 63 | 200 | 50 | **738 990 461** | 0.560 | 125 | 110 | 230 | 32 | 171 |
| 75 | 220 | 65 | **738 990 462** | 0.650 | 140 | 125 | 232 | 34 | 191 |
| 90 | 240 | 80 | **738 990 463** | 0.830 | 160 | 140 | 245 | 35 | 206 |

table continued on the next page

| d (mm) | D (mm) | DN (mm) | Code | Weight (kg) | D1 (mm) | D2 (mm) | L (mm) | L3 (mm) | d5 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 110 | 270 | 100 | **738 990 464** | 1.100 | 180 | 160 | 254 | 36 | 235 |
| 140 | 300 | 125 | **738 990 466** | 1.140 | 225 | 200 | 299 | 38 | 256 |
| 160 | 358 | 150 | **738 990 467** | 1.560 | 259 | | 332 | 34 | 295 |
| 225 | 423 | 200 | **738 990 470** | 2.800 | 325 | | 383 | 37 | 354 |



## COOL-FIT 2.0 Insulation for welding indicator

**Model:**

- Type A suitable for COOL-FIT 2.0 d32-d110 and d140 coupler
- Type B suitable for COOL-FIT 2.0 d140 except coupler

| d (mm) | Code | Weight (kg) | Type | pieces/kit |
|---|---|---|---|---|
| 32-140 | **738 010 051** | 0.055 | A | 20 |
| 140 | **738 010 056** | 0.010 | B | 10 |



## Peeling blade d32-d90

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 001)

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 32 | **799 738 101** | 0.015 |
| 40 | **799 738 102** | 0.020 |
| 50 | **799 738 103** | 0.019 |
| 63 | **799 738 104** | 0.020 |
| 75 | **799 738 105** | 0.020 |
| 90 | **799 738 106** | 0.030 |



## Peeling blade d110-d225

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 003)

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 110 | **799 738 107** | 0.100 |
| 140 | **799 738 108** | 0.100 |
| 160 | **799 738 109** | 0.100 |
| 225 | **799 738 110** | 0.100 |



## Replacement blade foam separator

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 004) and upgrade kit d140-d225 (799 738 013)

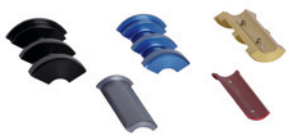
| Code | Weight (kg) | Suitable for |
|---|---|---|
| **799 738 115** | 0.100 | 799 738 004 |
| **799 738 117** | 0.080 | 799 738 013 |



## O-Ring for clamping shoe

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 001 and 799 738 003)

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 32 | **799 738 050** | 0.003 |
| 110 | **799 738 051** | 0.010 |



## Clamping shoe d32-d90

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 001)

| d (mm) | Code | Weight (kg) | Colour |
|---|---|---|---|
| 32 | **799 738 020** | 0.240 | silver |
| 40 | **799 738 021** | 0.090 | red |
| 50 | **799 738 022** | 0.210 | anthracite |
| 63 | **799 738 023** | 0.120 | gold |
| 75 | **799 738 024** | 0.270 | blue |
| 90 | **799 738 025** | 0.480 | black |



## Circular blade

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 001 and 799 738 003)

| Code | Weight (kg) |
|---|---|
| **799 738 040** | 0.008 |



## Circular blade-Set

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799738001 and 799738003)
- Consists of: Circular blade, holder and screw

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 32 - 90 | **799 738 048** | 0.025 |
| 110 - 225 | **799 738 049** | 0.025 |



## Saw

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 003)

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 140 - 225 | **799 738 060** | 1.000 |



## Saw blade

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 003)

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 140 - 225 | **799 738 061** | 0.029 |




### Spare blades for deburring tool

- 10 pieces

| Code | Weight (kg) |
|---|---|
| **790 205 083** | 0.031 |

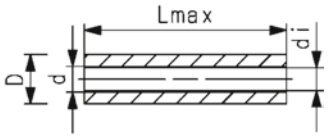
# COOL-FIT 2.0 Push System Pipes and Fittings



### COOL-FIT 2.0 Push System Pipe bar

**Model:**

- Pre-insulated multilayer (PE-RT/AL/PE-RT) pipe, metric
- Closed cell insulation based EPDM with polyester wire mesh for mechanical protection
- Colour: black



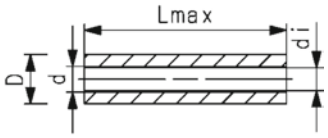

| d (mm) | D (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | di (mm) | L (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|
| 16 | 44 | 12 | 16 | **738 174 005** | 0.299 | 12 | 5000 | ⅜ |
| 20 | 48 | 15 | 16 | **738 174 006** | 0.354 | 16 | 5000 | ½ |
| 25 | 54 | 20 | 16 | **738 174 007** | 0.521 | 20 | 5000 | ¾ |
| 32 | 61 | 25 | 16 | **738 174 008** | 0.481 | 26 | 5000 | 1 |



### COOL-FIT 2.0 Push System Pipe coiled

**Model:**

- Pre-insulated multilayer (PE-RT/AL/PE-RT) pipe, metric
- Closed cell insulation based EPDM with polyester wire mesh for mechanical protection
- Colour: black




| d (mm) | D (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | di (mm) | L (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|
| 16 | 44 | 12 | 16 | **738 174 055** | 0.299 | 12 | 25000 | ⅜ |
| 20 | 48 | 15 | 16 | **738 174 056** | 0.354 | 16 | 25000 | ½ |
| 25 | 54 | 20 | 16 | **738 174 057** | 0.521 | 20 | 25000 | ¾ |

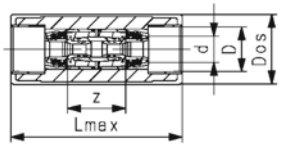


## COOL-FIT 2.0 Push System Coupler

**Model:**

- Push fitting made of high-performance plastic PPSU
- Insulation shell of EPP with TPE jacket
- Colour: black
- Package contents: 1x module, 2x adaptors, 2x compression rings, 1x insulation shell

| d (mm) | D (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Dos (mm) | Lmax (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| 16 | 44 | 12 | 16 | **738 914 005** | 0.266 | 69 | 190 | 53 |
| 20 | 48 | 15 | 16 | **738 914 006** | 0.254 | 69 | 190 | 53 |
| 25 | 54 | 20 | 16 | **738 914 007** | 0.456 | 86 | 212 | 72 |
| 32 | 61 | 25 | 16 | **738 914 008** | 0.446 | 86 | 212 | 72 |



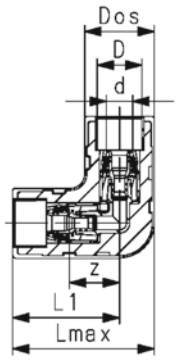



## COOL-FIT 2.0 Push System Elbow 90°

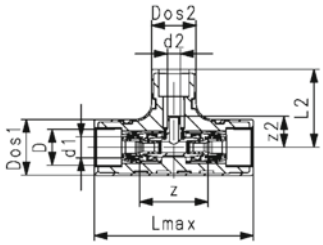
**Model:**

- Push fitting made of high-performance plastic PPSU
- Insulation shell of EPP with TPE jacket
- Colour: black
- Package contents: 1x module, 2x adaptors, 2x compression rings, 1x insulation shell

| d (mm) | D (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Dos (mm) | Lmax (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 16 | 44 | 12 | 16 | **738 104 005** | 0.294 | 69 | 145 | 110 | 41 |
| 20 | 48 | 15 | 16 | **738 104 006** | 0.282 | 69 | 145 | 110 | 41 |
| 25 | 54 | 20 | 16 | **738 104 007** | 0.550 | 86 | 175 | 132 | 62 |
| 32 | 61 | 25 | 16 | **738 104 008** | 0.540 | 86 | 175 | 132 | 62 |








## COOL-FIT 2.0 Push System T90° equal

**Model:**

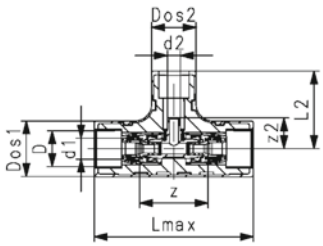
- Push fitting made of high-performance plastic PPSU
- Insulation shell of EPP with TPE jacket
- Colour: black
- Package contents: 1x module, 2x adaptors, 2x compression rings, 1x insulation shell

**Note:**

Additonal COOL-FIT 2.0 Push System Adaptor kit needed for d16 and d20 738904055 or 73890456 for d25 and d32 738904057 or 73890458

| d (mm) | d2 (mm) | D (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Dos1 (mm) | Dos2 (mm) | Lmax (mm) | L2 (mm) | z (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 16/20 | 44 | 12 | 16 | **738 204 005** | 0.344 | 69 | 69 | 207 | 110 | 72 | 37 |
| 20 | 16/20 | 48 | 15 | 16 | **738 204 006** | 0.332 | 69 | 69 | 207 | 110 | 72 | 37 |
| 25 | 25/32 | 54 | 20 | 16 | **738 204 007** | 0.648 | 86 | 86 | 246 | 132 | 106 | 54 |
| 32 | 25/32 | 61 | 25 | 16 | **738 204 008** | 0.638 | 86 | 86 | 246 | 132 | 106 | 54 |






## COOL-FIT 2.0 Push System T90° reduced

**Model:**

- Push fitting made of high-performance plastic PPSU
- Insulation shell of EPP with TPE jacket
- Colour: black
- Package contents: 1x module, 2x adaptors, 2x compression rings, 1x insulation shell

**Note:**

Additonal COOL-FIT 2.0 Push System, Adaptor kit 738904055 and 73890456 needed

| d1 (mm) | d2 (mm) | D (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Dos1 (mm) | Dos2 (mm) | Lmax (mm) | L2 (mm) | z (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 16/20 | 54 | 20 | 16 | **738 204 017** | 0.597 | 86 | 69 | 246 | 121 | 106 | 48 |
| 32 | 16/20 | 61 | 25 | 16 | **738 204 018** | 0.587 | 86 | 69 | 246 | 121 | 106 | 48 |



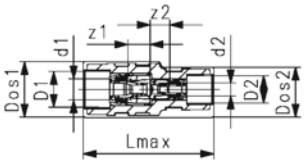
### COOL-FIT 2.0 Push System Reducer

**Model:**

- Push fitting made of high-performance plastic PPSU
- Insulation shell of EPP with TPE jacket
- Colour: black
- Package contents: 1x module, 2x adaptors, 2x compression rings, 1x insulation shell

**Note:**

To reduce from d32 to d25 or from d20 to d16, a corresponding coupler (d1) plus an additional adaptor kit (d2) may be used




| d1 (mm) | d2 (mm) | D1 (mm) | D2 (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Dos1 (mm) | Dos2 (mm) | Lmax (mm) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 16 | 54 | 44 | 20 | 16 | **738 904 015** | 0.395 | 86 | 69 | 203 | 34 | 31 |
| 25 | 20 | 54 | 48 | 20 | 16 | **738 904 016** | 0.389 | 86 | 69 | 203 | 34 | 31 |
| 32 | 16 | 61 | 44 | 25 | 16 | **738 904 017** | 0.390 | 86 | 69 | 203 | 34 | 31 |
| 32 | 20 | 61 | 48 | 25 | 16 | **738 904 018** | 0.384 | 86 | 69 | 203 | 34 | 31 |

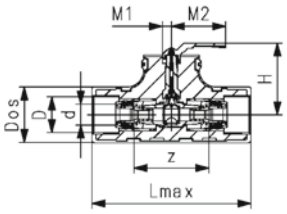
# COOL-FIT 2.0 Push System Valves



### COOL-FIT 2.0 Push System Ball valve

**Model:**

- Ball valve with spindle extension
- Insulation shell of EPP with TPE jacket
- Colour: black
- Package contents: 1x ball valve, 2x adaptors, 2x compression rings, 1x insulation shell



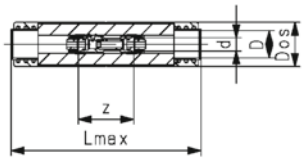

| d (mm) | D (mm) | DN (mm) | PN (bar) | kv-100-value (Δp=1 bar) (l/min) | Code | Weight (kg) | Dos (mm) | H (mm) | Lmax (mm) | M1 (mm) | M2 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 44 | 12 | 16 | 16.3 | **138 984 005** | 0.739 | 69 | 108 | 232 | 14 | 84 | 97 |
| 20 | 48 | 15 | 16 | 16.3 | **138 984 006** | 0.732 | 69 | 108 | 232 | 14 | 84 | 97 |
| 25 | 54 | 20 | 16 | 29.5 | **138 984 007** | 1.155 | 86 | 111 | 246 | 14 | 84 | 116 |
| 32 | 61 | 25 | 16 | 29.5 | **138 984 008** | 1.145 | 86 | 111 | 246 | 14 | 84 | 116 |



### COOL-FIT 2.0 Push System Flow control valve Both sides connection with Eurocone

**Model:**

- Flow control valve made of brass, impact resistant plastic and EPDM seals
- Both sides connection to COOL-FIT 2.0 Push System
- Measuring range: 3.0 – 12.0 (l/min)
- Measuring accuracy: ±10% of the displayed value
- Insulation made of NBR and shells of TPE
- Package contents: 1x valve, 2x adaptors, 2x compression rings, 1x insulation shell



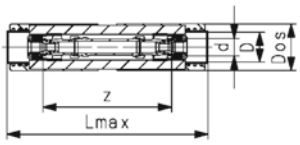

| d (mm) | D (mm) | DN (mm) | PN (bar) | kv-100-value (Δp=1 bar) (l/min) | Code | Weight (kg) | Dos (mm) | Lmax (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 16 | 44 | 12 | 10 | 30.8 | **138 984 025** | 0.625 | 69 | 252 | 82 |
| 20 | 48 | 15 | 10 | 30.8 | **138 984 026** | 0.669 | 69 | 252 | 86 |



## COOL-FIT 2.0 Push System Flow control valve
## Both sides connection with iFIT

**Model:**

- Flow control valve made of brass, impact resistant plastic and EPDM seals
- Both sides connection to COOL-FIT 2.0 Push System
- Measuring range: 8.0 – 30.0 (l/min)
- Measuring accuracy: ±10% of the displayed value
- Insulation made of NBR and shells of TPE
- Package contents: 1x valve, 2x adaptors, 2x compression rings, 1x insulation shell



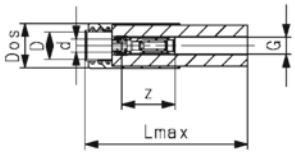

| d (mm) | D (mm) | DN (mm) | PN (bar) | kv-100-value (Δp=1 bar) (l/min) | Code | Weight (kg) | Dos (mm) | Lmax (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 25 | 54 | 20 | 10 | 83.3 | **138 984 027** | 1.338 | 86 | 332 | 238 |
| 32 | 61 | 25 | 10 | 83.3 | **138 984 028** | 1.328 | 86 | 332 | 238 |



## COOL-FIT 2.0 Push System Flow control valve
## With Eurocone and G-thread connection

**Model:**

- Flow control valve made of brass, impact resistant plastic and EPDM seals
- One side connection to COOL-FIT 2.0 Push System
- One side connection with thread
- Measuring range: 3.0 – 12.0 (l/min)
- Measuring accuracy: ±10% of the displayed value
- Insulation made of NBR and shells of TPE
- Package contents: 1x valve, 1x adaptor, 1x compression ring, 1x insulation shell



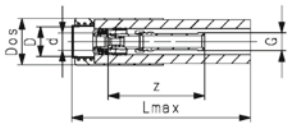

| d (mm) | D (mm) | Thread | Size (inch) | DN (mm) | PN (bar) | kv-100-value (Δp=1 bar) (l/min) | Code | Weight (kg) | Dos (mm) | Lmax (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 44 | G | ¾ | 12 | 10 | 30.8 | **138 984 015** | 0.426 | 69 | 252 | 72 |
| 20 | 48 | G | ¾ | 15 | 10 | 30.8 | **138 984 016** | 0.448 | 69 | 252 | 83 |



## COOL-FIT 2.0 Push System Flow control valve
## With iFIT and G-thread connection

**Model:**

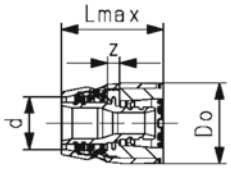
- Flow control valve made of brass, impact resistant plastic and EPDM seals
- One side connection to COOL-FIT 2.0 Push System
- One side connection with thread
- Measuring range: 8.0 – 30.0 (l/min)
- Measuring accuracy: ±10% of the displayed value
- Insulation made of NBR and shells of TPE
- Package contents: 1x valve, 1x adaptor, 1x compression ring, 1x insulation shell




| d (mm) | D (mm) | Thread | Size (inch) | DN (mm) | PN (bar) | kv-100-value (Δp=1 bar) (l/min) | Code | Weight (kg) | Dos (mm) | Lmax (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 54 | G | 1 | 20 | 10 | 83.3 | **138 984 017** | 0.887 | 86 | 332 | 179 |
| 32 | 61 | G | 1 | 25 | 10 | 83.3 | **138 984 018** | 0.882 | 86 | 332 | 179 |

# COOL-FIT 2.0 Push System Accessories






## COOL-FIT 2.0 Push System Adaptor kit

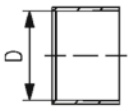
**Model:**

- Adapter made of high-performance plastic PPSU
- Compression ring made of PP-H
- Package contents: 1x adaptor, 1x compression ring

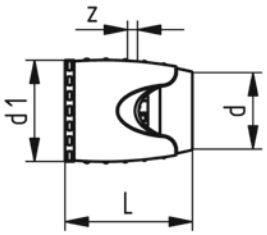
**Note:**

Additionally needed for COOL-FIT 2.0 Push System, T 90° equal and T90° reduced

| d (mm) | D (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Lmax (mm) | z (mm) | Do (mm) |
|---|---|---|---|---|---|---|---|---|
| 16 | 44 | 12 | 16 | **738 904 055** | 0.045 | 48 | 4.5 | 29 |
| 20 | 48 | 15 | 16 | **738 904 056** | 0.039 | 49 | 4.5 | 33 |
| 25 | 54 | 20 | 16 | **738 904 057** | 0.104 | 62 | 7.5 | 44 |
| 32 | 61 | 25 | 16 | **738 904 058** | 0.099 | 63 | 7.5 | 50 |





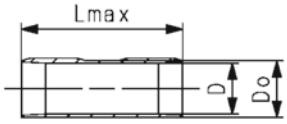




## iFIT Adaptor PPSU

- Material: PPSU, PA

| d (mm) | d1 (mm) | Code | Weight (kg) | L (mm) | z (mm) |
|---|---|---|---|---|---|
| 16 | 30 | **762 101 030** | 0.024 | 48 | 5 |
| 20 | 34 | **762 101 031** | 0.028 | 49 | 5 |
| 25 | 45 | **762 101 034** | 0.070 | 62 | 8 |
| 32 | 52 | **762 101 035** | 0.085 | 63 | 8 |



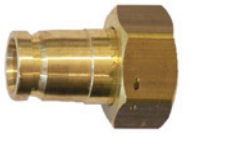


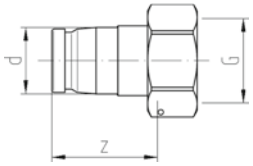

## COOL-FIT 2.0 Push System Pipe shell

**Model:**

- Shell for easy installation in standard pipe clips

| d (mm) | D (mm) | Do (mm) | Code | Weight (kg) | Lmax (mm) |
|---|---|---|---|---|---|
| 16 | 44 | 52 | **738 014 005** | 0.080 | 200 |
| 20 | 48 | 56 | **738 014 006** | 0.086 | 200 |
| 25 | 54 | 62 | **738 014 007** | 0.096 | 200 |
| 32 | 61 | 69 | **738 014 008** | 0.107 | 200 |

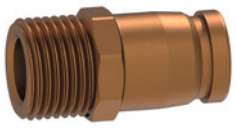


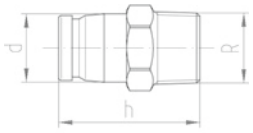



## iFIT Transition union module brass
## With flat sealed

- Material: brass, dezincification resistant
- Supplied with: sealing

| d (mm) | Thread Type | Size (inch) | Code | Weight (kg) | z (mm) |
|---|---|---|---|---|---|
| 16 - 20 | G | ½ | **762 101 276** | 0.070 | 41 |
| 16 - 20 | G | ¾ | **762 101 273** | 0.064 | 35 |
| 25 - 32 | G | ¾ | **762 101 281** | 0.155 | 48 |
| 25 - 32 | G | 1 | **762 101 282** | 0.179 | 55 |
| 25 - 32 | G | 1 ¼ | **762 101 283** | 0.251 | 48 |
| 25 - 32 | G | 1 ½ | **762 101 284** | 0.357 | 50 |

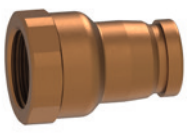


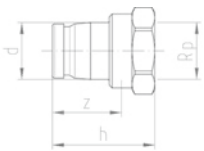



## iFIT Transition module gunmetal lead-free
## With male thread

- Material: gunmetal lead-free
- Connection: male thread

| d (mm) | Thread Type | Size (inch) | Code | Weight (kg) | h (mm) |
|---|---|---|---|---|---|
| 16 - 20 | R | ⅜ | **762 102 346** | 0.061 | 42 |
| 16 - 20 | R | ½ | **762 102 265** | 0.065 | 43 |
| 16 - 20 | R | ¾ | **762 102 266** | 0.071 | 43 |
| 25 - 32 | R | ¾ | **762 102 277** | 0.155 | 53 |
| 25 - 32 | R | 1 | **762 102 278** | 0.185 | 57 |






## iFIT Transition module gunmetal lead-free
## With female thread

- Material: gunmetal lead-free
- Connection: female thread

| d (mm) | Thread Type | Size (inch) | Code | Weight (kg) | h (mm) | z (mm) |
|---|---|---|---|---|---|---|
| 16 - 20 | Rp | ½ | **762 102 267** | 0.070 | 40 | 23 |
| 16 - 20 | Rp | ¾ | **762 102 268** | 0.094 | 42 | 25 |
| 25 - 32 | Rp | ¾ | **762 102 279** | 0.138 | 48 | 31 |
| 25 - 32 | Rp | 1 | **762 102 280** | 0.196 | 53 | 34 |

# COOL-FIT 2.0 Push System Tools



### iFIT Tool set for ML- and PB pipes plastic

d16 / d20 with pipe scissor, d25 / d32 with pipe cutter

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 16 / 20 | **762 101 122** | 1.163 |
| 25 / 32 | **762 101 133** | 1.371 |

---



### iFIT Chamfering tool for ML- and PB pipes

- Material: steel, plastic

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 16 | **762 101 116** | 0.188 |
| 20 | **762 101 120** | 0.205 |
| 25 | **762 101 125** | 0.252 |
| 32 | **762 101 132** | 0.323 |

---



### iFIT plastic pipe cutter
### For ML- and PB pipes d16-d32

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 16 - 32 | **762 101 117** | 0.386 |
| Spare blades | **762 101 118** | 0.005 |

---




### iFIT Chamfering tool to battery tools metal

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 16 | **762 101 351** | 0.188 |
| 20 | **762 101 352** | 0.205 |
| 25 | **762 101 353** | 0.252 |
| 32 | **762 101 354** | 0.323 |

---



### iFIT Grab rail set metal

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 16 - 32 | **762 101 361** | 0.050 |

---



### iFIT Quick-change insert metal

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 16 - 32 | **762 101 362** | 0.039 |

---



### iFIT Tool case empty plastic
### For chamfering tool

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 16 - 32 | **762 101 363** | 2.000 |



### JRG Sanipex MT Hand bending template aluminium

- Material: aluminium

| d (mm) | JRG Code | GF Code | Weight (kg) | l (mm) |
|---|---|---|---|---|
| 16 | **4806.016** | **351 616 907** | 0.200 | 217 |
| 20 | **4806.020** | **351 620 907** | 0.320 | 270 |
| 26 | **4806.026** | **351 626 907** | 0.775 | 415 |

# COOL-FIT 4.0




## Your benefits

+ **50% faster installation**
+ **60% lighter**
+ **100% corrosion-free**
+ **Environmental Product Declaration (EPD)**

## Technical data

**Materials**
Media pipe: PE100
Insulation: GF-HE foam, halogen-free, closed-cell
Outer jacket: Pipe = HDPE, Fitting = GF-HE

**Dimensions range**
d32/D90 to d450/D630 (Push System: d25/D78 to d32/D85)
d = pressure pipe; D = outer jacket

**Jointing technology**
Electrofusion and mechanical connection (Push System)

**Operating pressure**
d32 – d110: PN16 bar, SDR 11
d160 – d450: PN10 bar, SDR 17

**Operating temperature**
–50°C to 60°C ( ambient –30°C to 60°C)

The values above are to be considered for water, in case of use chemical addition, it is always recommended to contact GF specialist to an individual and more detailed assessment.

# Dimensioning and Design

## General information about the dimensioning and installation of plastic piping

Plastics have different physical characteristics to metals. When designing and installing thermoplastic piping systems, this needs to be taken into account. Although PE and COOL-FIT 4.0 are very robust systems, care should be taken to avoid damage during handling and transportation.

For over 50 years, GF Systems has developed and sold a variety of plastic piping systems which are subjected to very rigorous demands, such as optimized insulation properties in cooling applications. Experience has shown that plastic provides an economical and reliable alternative to metal when designers and installers take account of the recommendations in the technical documentation. In the professional production of plastic piping systems, for example, piping systems must be able to move to accommodate changes in length caused by temperature and pressure changes. To allow for these changes in length, the use of pipe holders that permit this movement is vital.

The following technical information contains the basic information needed to ensure an economical and trouble-free installation. However, this chapter does not contain all of the details. For more information, or if you have specific questions, please contact your local GF Piping Systems representative. Additional information is available on the official GF Piping Systems website.

### 1.4.2 COOL-FIT 4.0 pressure-temperature diagram

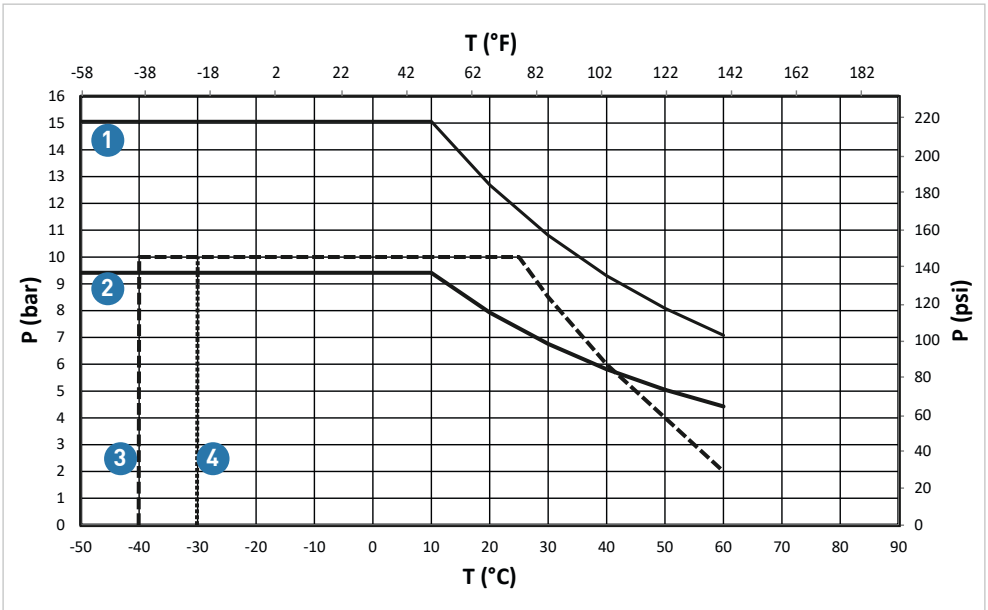
The pressure resistance for thermoplastic pipe for water is always specified at +20 °C. At higher temperatures allowance must be made for a lower maximum operating pressure.

The graphs show the maximum permissible pressure for COOL-FIT 4.0 pipe and fittings at various temperatures, up to the maximum permissible media temperature of +60 °C. The graph is based on an ambient temperature of +20 °C. A safety factor of 1.6 and a minimum lifespan of 25 years have been allowed for in all calculations.

## Pressure/temperature limits for COOL-FIT 4.0 pipe, fittings, valves – water as secondary refrigerant

Limits for COOL-FIT 4.0: 25-year values allowing for the safety factor 1.6 (with water as the secondary refrigerant).

In case of long-term operating pressure at temperatures above 47 °C, please contact your authorized GF Piping Systems representative.

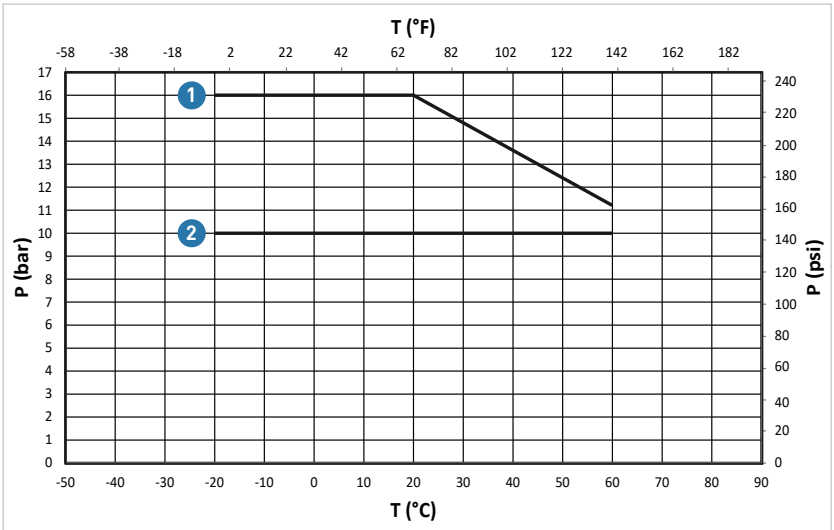



P Allowable pressure (bar, psi)
T Temperature (°C, °F)
C Safety factor

1 COOL-FIT 4.0 Pipe and fitting d32 – d450, C1.6, SDR11
2 COOL-FIT 4.0 Pipe and fitting d160 – d450, C1.6, SDR17
3 COOL-FIT 4.0 Ball valve PN10
4 COOL-FIT 4.0 Butterfly valve PN10

## Pressure/temperature limits for COOL-FIT 4.0 Push System fittings, pipe, valves – water coolant

Limits for COOL-FIT 4.0: 25-year values (with water as the coolant).




P Allowable pressure (bar, psi)
T Temperature (°C, °F)
1 COOL-FIT 4.0 Push System pipe, fitting and ball valve
2 COOL-FIT 4.0 Push System Flow control valve

## Influence of secondary refrigerants with antifreeze additives

At media temperatures below 0 °C, antifreeze must be used in the water to prevent it from freezing during a plant shut-down.

COOL-FIT 4.0 is generally resistant to secondary refrigerants such as glycol and salt solutions. For some refrigerants a reduction factor is necessary depending on the type and mixing ratio. The permissible operating pressure is corrected downwards from the pressure-temperature curve for water.

| Reduction factors | COOL-FIT 4.0 Pipe and Fitting | COOL-FIT 4.0 Valves |
|---|---|---|
| Inorganic brine solutions | F = 1 | F = 1 |
| Organic salt solutions | F = 1 | F = 1.25 |
| Glycol solutions (max. 50 %) | F = 1.1 | F = 1.7 |

For the calculation, the following formula is used:

$$P_{AF} = \frac{P_w}{AF}$$

$P_{AF}$ Permissible pressure with reduction factor
$P_W$ Permissible pressure for water
AF Reduction factor

## Glycol solutions

COOL-FIT 4.0 can be used with glycol solutions with concentrations up to 50%. The chemical resistance of COOL-FIT 4.0 systems is suitable for the following antifreeze types:

| Brand name | Manufacturer | Type |
|---|---|---|
| Antifrogen N | Clariant | Ethylene glycol |
| Antifrogen L | Clariant | Propylene glycol |
| Showbrine Blue Showa standard EC brine | Showa Brine | Ethylene glycol |
| Tyfocor L | Tyfo | Propylene glycol |
| Tyfocor | Tyfo | Ethylene glycol |
| DOWFROST | DOW | Propylene glycol |
| Zytrec FC | Frigol | Propylene glycol |
| Zytrec LC | Frigol | Propylene glycol |
| Zytrec MC | Frigol | Ethylene glycol |
| Neutrogel Neo | Climalife Dehon | Ethylene glycol |
| Friogel Neo | Climalife Dehon | Propylene glycol |
| DOWTHERM SR-1 | DOW | Ethylene glycol |

When using other secondary refriegerants, compatibility with COOL-FIT 4.0 should be clarified with Georg Fischer Piping Systems.

Example – glycol dissolved in water

For water-glycol mixture ≤ 50%, the reduction factor for the pressure-temperature diagram is 1.7 (for COOL-FIT 4.0 valves). Thus, at +10 °C, with a minimum life of 25 years, the maximum allowable working pressure is reduced as follows:

$$P_{AF} = \frac{10 \text{ bar}}{1.7} = 5.88 \text{ bar}$$

## Organic salt solutions

These media are usually potassium formates or potassium acetates: aqueous solutions with low viscosity at low temperatures. COOL-FIT 4.0 can be used with the media below. The manufacturer's instructions must be followed.

| Brand name | Manufacturer | Type |
|---|---|---|
| Antifrogen KF | Clariant | Brine |
| Zytrec S-55 | Frigol | Brine |
| Temper | Temper | Brine |
| Hycool | Addcon | Brine |

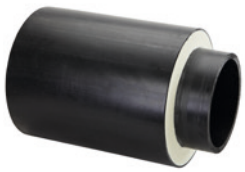
For detailed information on resistance and reduction factors, see Planning Fundamentals "Material selection – Chemical resistance".

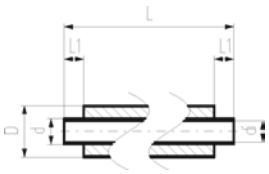
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# COOL-FIT 4.0 Pipes and Fittings







## COOL-FIT 4.0 Pipe
## d32-d450

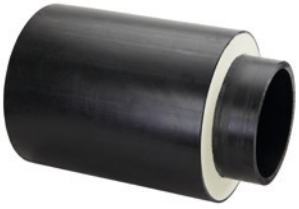
**Model:**

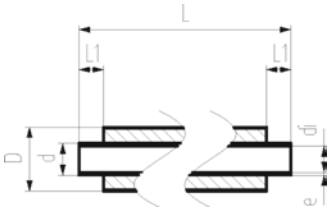
- Pre-insulated PE100 SDR11/17 metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- Length: 5m for d32-d225, 5.9m for d250-d450
- With free ends for electrofusion

**Note:**

Dimensions d250 - d450 need to be peeled prior to jointing.

| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg/m) | di (mm) | L (mm) | L1 (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 90 | 25 | 11 | 16 | **738 173 108** | 1.411 | 26.2 | 5000 | 36 | 1 |
| 40 | 110 | 32 | 11 | 16 | **738 173 109** | 2.054 | 32.6 | 5000 | 40 | 1 ¼ |
| 50 | 110 | 40 | 11 | 16 | **738 173 110** | 2.221 | 40.8 | 5000 | 44 | 1 ½ |
| 63 | 125 | 50 | 11 | 16 | **738 173 111** | 2.987 | 51.4 | 5000 | 48 | 2 |
| 75 | 140 | 65 | 11 | 16 | **738 173 112** | 3.757 | 61.4 | 5000 | 55 | 2 ½ |
| 90 | 160 | 80 | 11 | 16 | **738 173 113** | 4.819 | 73.6 | 5000 | 62 | 3 |
| 110 | 180 | 100 | 11 | 16 | **738 173 114** | 6.200 | 90.0 | 5000 | 72 | 4 |
| 140 | 225 | 125 | 11 | 16 | **738 173 116** | 9.676 | 114.6 | 5000 | 84 | 5 |
| 160 | 250 | 150 | 17 | 10 | **738 173 117** | 9.921 | 141.0 | 5000 | 90 | 6 |
| 225 | 315 | 200 | 17 | 10 | **738 173 120** | 16.620 | 198.2 | 5000 | 110 | 8 |
| 250 | 355 | 250 | 17 | 10 | **738 173 021** | 18.180 | 220.4 | 5900 | 123 | 10 |
| 280 | 400 | 250 | 17 | 10 | **738 173 022** | 22.640 | 246.8 | 5900 | 126 | 10 |
| 315 | 450 | 300 | 17 | 10 | **738 173 023** | 28.510 | 277.6 | 5900 | 133 | 12 |
| 355 | 500 | 350 | 17 | 10 | **738 173 024** | 35.350 | 312.8 | 5900 | 148 | 14 |
| 400 | 560 | 400 | 17 | 10 | **738 173 125** | 44.070 | 352.6 | 5900 | 150 | 16 |
| 450 | 630 | 450 | 17 | 10 | **738 173 126** | 55.490 | 396.6 | 5900 | 165 | 18 |





## COOL-FIT 4.0 Pipe
## d160-d450 SDR11

**Model:**

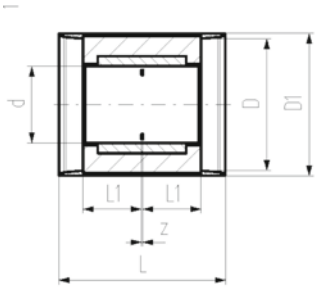
- Pre-insulated PE100 SDR11 metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- Lenght: 5m for d160+d225, 5.9m for d250-d450
- With free ends for electrofusion

**Note:**

Dimensions d250 - d450 need to be peeled prior to jointing.
Make to order

| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg/m) | di (mm) | L (mm) | L1 (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|
| 160 | 250 | 150 | 11 | 16 | **738 173 267** | 12.213 | 130.8 | 5000 | 90 | 6 |
| 225 | 315 | 200 | 11 | 16 | **738 173 270** | 21.169 | 184.0 | 5000 | 110 | 8 |
| 250 | 355 | 250 | 11 | 16 | **738 173 271** | 24.681 | 204.6 | 5900 | 123 | 10 |
| 280 | 400 | 250 | 11 | 16 | **738 173 272** | 31.731 | 229.2 | 5900 | 126 | 10 |
| 315 | 450 | 300 | 11 | 16 | **738 173 273** | 39.333 | 257.8 | 5900 | 133 | 12 |
| 355 | 500 | 350 | 11 | 16 | **738 173 274** | 49.614 | 290.6 | 5900 | 148 | 14 |
| 400 | 560 | 400 | 11 | 16 | **738 173 275** | 62.811 | 327.4 | 5900 | 150 | 16 |
| 450 | 630 | 450 | 11 | 16 | **738 173 276** | 76.431 | 368.2 | 5900 | 165 | 18 |



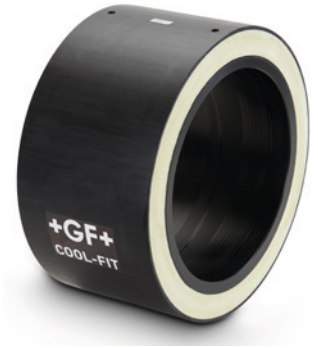


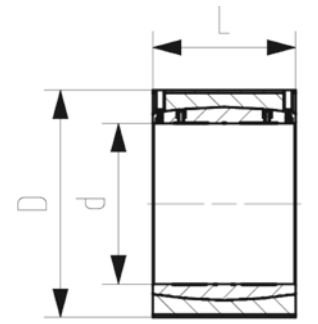

## COOL-FIT 4.0 Coupler
## d32-d225

**Model:**

- Pre-insulated PE100 SDR 11 metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- Electrofusion fitting with integrated sealing lip, for a moisture-proof and vapour tight sealing

| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | D1 (mm) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 90 | 25 | 11 | 16 | **738 913 108** | 0.179 | 97 | 127 | 36 | 5 |
| 40 | 110 | 32 | 11 | 16 | **738 913 109** | 0.129 | 117 | 133 | 40 | 3 |
| 50 | 110 | 40 | 11 | 16 | **738 913 110** | 0.169 | 117 | 141 | 44 | 3 |
| 63 | 125 | 50 | 11 | 16 | **738 913 111** | 0.240 | 132 | 149 | 48 | 3 |
| 75 | 140 | 65 | 11 | 16 | **738 913 112** | 0.520 | 147 | 163 | 55 | 3 |
| 90 | 160 | 80 | 11 | 16 | **738 913 113** | 0.750 | 168 | 178 | 62 | 4 |
| 110 | 180 | 100 | 11 | 16 | **738 913 114** | 0.831 | 188 | 198 | 72 | 4 |
| 140 | 225 | 125 | 11 | 16 | **738 913 116** | 1.565 | 233 | 221 | 84 | 3 |
| 160 | 250 | 150 | 11 | 16 | **738 913 117** | 1.726 | 258 | 233 | 90 | 3 |
| 225 | 315 | 200 | 11 | 16 | **738 913 120** | 3.783 | 324 | 275 | 110 | 5 |



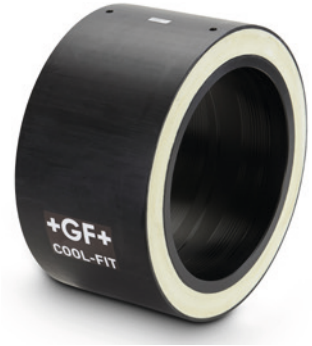



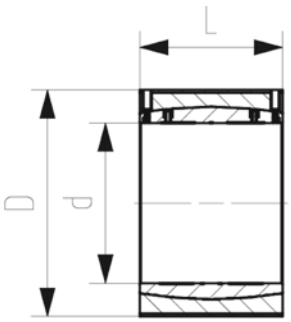

## COOL-FIT 4.0 Coupler
## d250-d450

**Model:**

- Pre-insulated PE100 SDR 17 metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black

| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) |
|---|---|---|---|---|---|---|---|
| 250 | 355 | 250 | 17 | 10 | **738 911 821** | 6.290 | 247 |
| 280 | 400 | 250 | 17 | 10 | **738 911 822** | 8.020 | 252 |
| 315 | 450 | 300 | 17 | 10 | **738 911 823** | 9.110 | 267 |
| 355 | 500 | 350 | 17 | 10 | **738 911 824** | 13.780 | 290 |
| 400 | 560 | 400 | 17 | 10 | **738 911 875** | 23.450 | 294 |
| 450 | 630 | 450 | 17 | 10 | **738 911 876** | 22.590 | 326 |




## COOL-FIT 4.0 Coupler
## d250-d450, SDR11

**Model:**

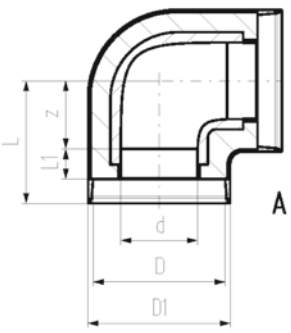
- Pre-insulated PE100 SDR11 metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black

**Note:**

Make to order

| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) |
|---|---|---|---|---|---|---|---|
| 250 | 355 | 250 | 11 | 16 | **738 913 271** | 6.352 | 247 |
| 280 | 400 | 250 | 11 | 16 | **738 913 272** | 9.910 | 252 |
| 315 | 450 | 300 | 11 | 16 | **738 913 273** | 11.150 | 267 |
| 355 | 500 | 350 | 11 | 16 | **738 913 274** | 17.356 | 290 |
| 400 | 560 | 400 | 11 | 16 | **738 913 275** | 23.770 | 294 |
| 450 | 630 | 450 | 11 | 16 | **738 913 276** | 31.290 | 326 |






## COOL-FIT 4.0 Elbow 90°
## d32-d225

**Model:**

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a water and vapour tight sealing

| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | D1 (mm) | L (mm) | L1 (mm) | z (mm) | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 90 | 25 | 11 | 16 | **738 103 108** | 0.255 | 97 | 81 | 36 | 20 | A |
| 40 | 110 | 32 | 11 | 16 | **738 103 109** | 0.177 | 117 | 88 | 40 | 23 | A |
| 50 | 110 | 40 | 11 | 16 | **738 103 110** | 0.250 | 117 | 99 | 44 | 30 | A |
| 63 | 125 | 50 | 11 | 16 | **738 103 111** | 0.372 | 132 | 107 | 48 | 34 | A |
| 75 | 140 | 65 | 11 | 16 | **738 103 112** | 0.800 | 147 | 120 | 55 | 40 | A |
| 90 | 160 | 80 | 11 | 16 | **738 103 113** | 1.500 | 168 | 150 | 62 | 63 | A |
| 110 | 180 | 100 | 11 | 16 | **738 103 114** | 1.950 | 188 | 174 | 72 | 77 | A |
| 140 | 225 | 125 | 11 | 16 | **738 103 116** | 3.707 | 233 | 196 | 84 | 87 | A |
| 160 | 250 | 150 | 11 | 16 | **738 103 117** | 5.200 | 258 | 220 | 90 | 105 | A |
| 225 | 315 | 200 | 11 | 16 | **738 103 120** | 12.400 | 324 | 345 | 110 | 210 | A |



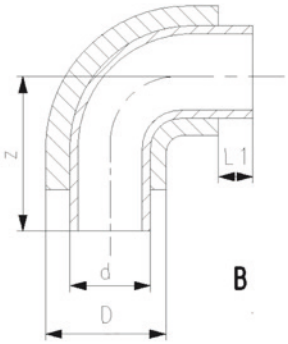
## COOL-FIT 4.0 Bend 90°
## d250-d450

**Model:**

- Pre-insulated PE100 SDR 17 metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)

**Note:**

Peeling of free ends necessary prior to jointing




| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L1 (mm) | z (mm) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 250 | 355 | 250 | 17 | 10 | **738 003 121** | 11.800 | 123 | 375 | B |
| 280 | 400 | 250 | 17 | 10 | **738 003 122** | 16.560 | 126 | 430 | B |
| 315 | 450 | 300 | 17 | 10 | **738 003 123** | 28.800 | 133 | 470 | B |
| 355 | 500 | 350 | 17 | 10 | **738 003 124** | 25.000 | 148 | 900 | B |
| 400 | 560 | 400 | 17 | 10 | **738 003 175** | 59.640 | 150 | 980 | B |
| 450 | 630 | 450 | 17 | 10 | **738 003 176** | 79.200 | 165 | 1070 | B |



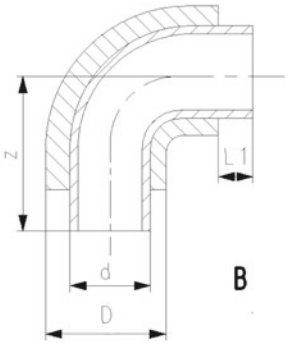
## COOL-FIT 4.0 Bend 90°
## d250-d450, SDR11

**Model:**

- Pre-insulated PE100 SDR11 metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)

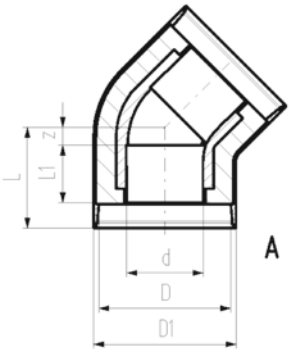
**Note:**

Peeling of free ends necessary prior to jointing
Make to order




| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L1 (mm) | z (mm) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 250 | 355 | 250 | 11 | 16 | **738 003 271** | 11.900 | 123 | 375 | B |
| 280 | 400 | 250 | 11 | 16 | **738 003 272** | 18.252 | 126 | 430 | B |
| 315 | 450 | 300 | 11 | 16 | **738 003 273** | 28.750 | 133 | 470 | B |
| 355 | 500 | 350 | 11 | 16 | **738 003 274** | 65.000 | 148 | 900 | B |
| 400 | 560 | 400 | 11 | 16 | **738 003 275** | 81.840 | 150 | 980 | B |
| 450 | 630 | 450 | 11 | 16 | **738 003 276** | 109.900 | 165 | 1070 | B |





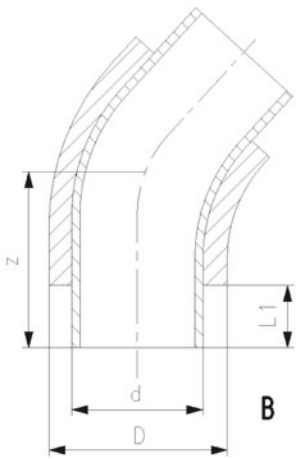

## COOL-FIT 4.0 Elbow 45°
## d32-d225

**Model:**

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a water and vapour tight sealing

| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | D1 (mm) | L (mm) | L1 (mm) | z (mm) | closest inch (inch) | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 90 | 25 | 11 | 16 | **738 153 108** | 0.108 | 97 | 72 | 36 | 11 | 1 | A |
| 40 | 110 | 32 | 11 | 16 | **738 153 109** | 0.162 | 117 | 76 | 40 | 11 | 1.25 | A |
| 50 | 110 | 40 | 11 | 16 | **738 153 110** | 0.218 | 117 | 82 | 44 | 13 | 1.5 | A |
| 63 | 125 | 50 | 11 | 16 | **738 153 111** | 0.315 | 132 | 89 | 48 | 16 | 2 | A |
| 75 | 140 | 65 | 11 | 16 | **738 153 112** | 0.650 | 147 | 98 | 55 | 18 | 2.5 | A |
| 90 | 160 | 80 | 11 | 16 | **738 153 113** | 1.030 | 168 | 117 | 62 | 30 | 3 | A |
| 110 | 180 | 100 | 11 | 16 | **738 153 114** | 1.270 | 188 | 138 | 72 | 41 | 4 | A |
| 140 | 225 | 125 | 11 | 16 | **738 153 116** | 2.958 | 233 | 157 | 84 | 48 | 5 | A |
| 160 | 250 | 150 | 11 | 16 | **738 153 117** | 4.100 | 258 | 161 | 90 | 46 | 6 | A |
| 225 | 315 | 200 | 11 | 16 | **738 153 120** | 17.603 | 324 | 278 | 110 | 143 | 8 | A |






## COOL-FIT 4.0 Bend 45°
## d250-d450

**Model:**

- Pre-insulated PE100 SDR 17 metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)

**Note:**

Peeling of free ends necessary prior to jointing

| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | Code | L1 (mm) | z (mm) | Type |
|---|---|---|---|---|---|---|---|---|---|---|
| 250 | 355 | 250 | 17 | 10 | **738 053 121** | 12.840 | | 123 | 440 | B |
| 280 | 400 | 250 | 17 | 10 | **738 053 122** | 18.000 | | 126 | 460 | B |
| 315 | 450 | 300 | 17 | 10 | **738 053 123** | 21.360 | | 133 | 535 | B |
| 355 | 500 | 350 | 17 | 10 | **738 053 124** | 18.720 | | 148 | 620 | B |
| 400 | 560 | 400 | 17 | 10 | **738 053 175** | 43.920 | | 150 | 650 | B |
| 450 | 630 | 450 | 17 | 10 | **738 053 176** | 54.360 | | 165 | 680 | B |



## COOL-FIT 4.0 Bend 45°
## d250-d450, SDR11

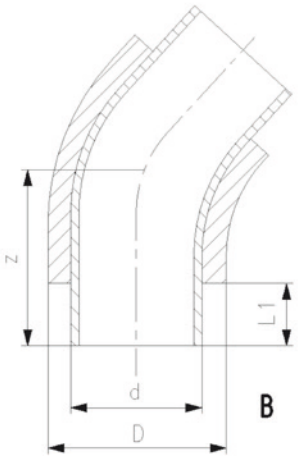
**Model:**

- Pre-insulated PE100 SDR11 metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)

**Note:**

Peeling of free ends necessary prior to jointing
Make to order

| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L1 (mm) | z (mm) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 250 | 355 | 250 | 11 | 16 | **738 053 271** | 15.150 | 123 | 440 | B |
| 280 | 400 | 250 | 11 | 16 | **738 053 272** | 25.000 | 126 | 460 | B |
| 315 | 450 | 300 | 11 | 16 | **738 053 273** | 28.490 | 133 | 535 | B |
| 355 | 500 | 350 | 11 | 16 | **738 053 274** | 46.380 | 148 | 620 | B |
| 400 | 560 | 400 | 11 | 16 | **738 053 275** | 55.820 | 150 | 650 | B |
| 450 | 630 | 450 | 11 | 16 | **738 053 276** | 78.860 | 165 | 680 | B |



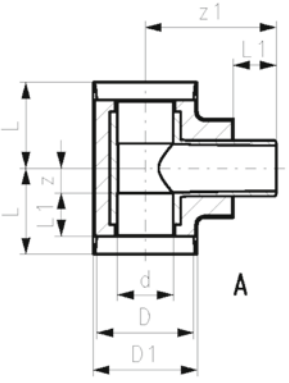



## COOL-FIT 4.0 T90° equal
## d32-d225

**Model:**

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a water and vapour tight sealing

| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | D1 (mm) | L (mm) | L1 (mm) | z (mm) | z1 (mm) | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 90 | 25 | 11 | 16 | **738 203 108** | 0.161 | 97 | 79 | 36 | 18 | 118.0 | A |
| 40 | 110 | 32 | 11 | 16 | **738 203 109** | 0.257 | 117 | 87 | 40 | 22 | 132.0 | A |
| 50 | 110 | 40 | 11 | 16 | **738 203 110** | 0.342 | 117 | 94 | 44 | 25 | 138.0 | A |
| 63 | 125 | 50 | 11 | 16 | **738 203 111** | 0.514 | 132 | 103 | 48 | 30 | 154.0 | A |
| 75 | 140 | 65 | 11 | 16 | **738 203 112** | 1.000 | 147 | 116 | 55 | 36 | 168.0 | A |
| 90 | 160 | 80 | 11 | 16 | **738 203 113** | 1.400 | 168 | 130 | 62 | 43 | 187.0 | A |
| 110 | 180 | 100 | 11 | 16 | **738 203 114** | 2.500 | 188 | 154 | 72 | 57 | 207.0 | A |
| 140 | 225 | 125 | 11 | 16 | **738 203 116** | 4.627 | 233 | 175 | 84 | 66 | 257.3 | A |
| 160 | 250 | 150 | 11 | 16 | **738 203 117** | 5.600 | 258 | 192 | 90 | 77 | 263.0 | A |
| 225 | 315 | 200 | 11 | 16 | **738 203 120** | 16.748 | 324 | 355 | 110 | 220 | 337.0 | A |





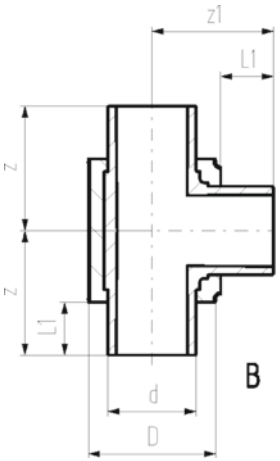
## COOL-FIT 4.0 T90° equal d250-d450, SDR11

**Model:**

- Pre-insulated PE100 SDR11 metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)

**Note:**

Peeling of free ends necessary prior to jointing
Make to order




| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L1 (mm) | z (mm) | z1 (mm) | Type |
|---|---|---|---|---|---|---|---|---|---|---|
| 250 | 355 | 250 | 11 | 16 | **738 203 271** | 16.100 | 123 | 500 | 500 | B |
| 280 | 400 | 250 | 11 | 16 | **738 203 272** | 27.620 | 126 | 500 | 500 | B |
| 315 | 450 | 300 | 11 | 16 | **738 203 273** | 29.650 | 133 | 500 | 500 | B |
| 355 | 500 | 350 | 11 | 16 | **738 203 274** | 43.400 | 148 | 650 | 700 | B |
| 400 | 560 | 400 | 11 | 16 | **738 203 275** | 59.700 | 150 | 650 | 700 | B |
| 450 | 630 | 450 | 11 | 16 | **738 203 276** | 91.200 | 165 | 700 | 750 | B |



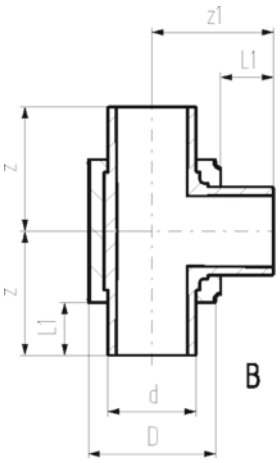
## COOL-FIT 4.0 T90° equal d250-d450

**Model:**

- Pre-insulated PE100 SDR 17 metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)

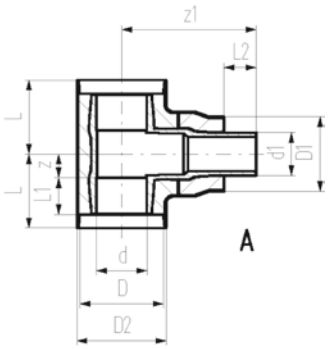
**Note:**

Peeling of free ends necessary prior to jointing




| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L1 (mm) | z (mm) | z1 (mm) | Type |
|---|---|---|---|---|---|---|---|---|---|---|
| 250 | 355 | 250 | 17 | 10 | **738 203 121** | 12.000 | 123 | 500 | 500 | B |
| 280 | 400 | 250 | 17 | 10 | **738 203 122** | 22.300 | 126 | 500 | 500 | B |
| 315 | 450 | 300 | 17 | 10 | **738 203 123** | 21.480 | 133 | 500 | 500 | B |
| 355 | 500 | 350 | 17 | 10 | **738 203 124** | 30.600 | 148 | 650 | 700 | B |
| 400 | 560 | 400 | 17 | 10 | **738 203 175** | 42.000 | 150 | 650 | 700 | B |
| 450 | 630 | 450 | 17 | 10 | **738 203 176** | 67.200 | 165 | 700 | 750 | B |






## COOL-FIT 4.0 T90° reduced
## d75 – d225

**Model:**

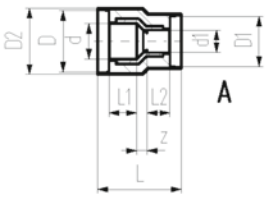
- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a water and vapour tight sealing

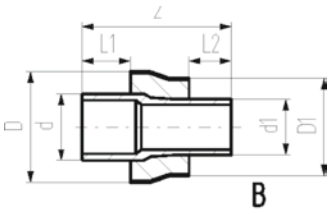
| d (mm) | d1 (mm) | D (mm) | D1 (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 75 | 63 | 140 | 125 | 65 | 11 | 16 | **738 203 218** | 0.863 |
| 90 | 63 | 160 | 125 | 80 | 11 | 16 | **738 203 222** | 1.232 |
| 90 | 75 | 160 | 140 | 80 | 11 | 16 | **738 203 223** | 1.293 |
| 110 | 63 | 180 | 125 | 100 | 11 | 16 | **738 203 227** | 1.972 |
| 110 | 75 | 180 | 140 | 100 | 11 | 16 | **738 203 228** | 1.949 |
| 110 | 90 | 180 | 160 | 100 | 11 | 16 | **738 203 229** | 2.037 |
| 140 | 63 | 225 | 125 | 125 | 11 | 16 | **738 203 240** | 4.225 |
| 140 | 75 | 225 | 140 | 125 | 11 | 16 | **738 203 241** | 4.225 |
| 140 | 90 | 225 | 160 | 125 | 11 | 16 | **738 203 242** | 4.047 |
| 140 | 110 | 225 | 180 | 125 | 11 | 16 | **738 203 243** | 4.218 |
| 160 | 63 | 250 | 125 | 150 | 11 | 16 | **738 203 447** | 4.250 |
| 160 | 90 | 250 | 160 | 150 | 11 | 16 | **738 203 449** | 4.420 |
| 160 | 110 | 250 | 180 | 150 | 11 | 16 | **738 203 450** | 4.590 |
| 160 | 140 | 250 | 225 | 150 | 11 | 16 | **738 203 251** | 5.666 |
| 160 | 140 | 250 | 200 | 150 | 11 | 16 | **738 204 251** | 5.540 |
| 225 | 63 | 315 | 125 | 200 | 11 | 16 | **738 203 264** | 16.832 |
| 225 | 90 | 315 | 160 | 200 | 11 | 16 | **738 203 266** | 16.889 |
| 225 | 110 | 315 | 180 | 200 | 11 | 16 | **738 203 267** | 16.805 |
| 225 | 140 | 315 | 225 | 200 | 11 | 16 | **738 203 268** | 18.909 |
| 225 | 140 | 315 | 200 | 200 | 11 | 16 | **738 204 268** | 17.100 |
| 225 | 160 | 315 | 250 | 200 | 11 | 16 | **738 203 269** | 18.500 |

| d (mm) | d1 (mm) | D2 (mm) | L (mm) | L1 (mm) | L2 (mm) | z (mm) | z1 (mm) | Type |
|---|---|---|---|---|---|---|---|---|
| 75 | 63 | 147 | 116 | 55 | 48 | 36 | 228.0 | A |
| 90 | 63 | 168 | 130 | 62 | 48 | 43 | 253.0 | A |
| 90 | 75 | 168 | 130 | 62 | 55 | 43 | 252.0 | A |
| 110 | 63 | 188 | 154 | 72 | 48 | 57 | 267.0 | A |
| 110 | 75 | 188 | 154 | 72 | 55 | 57 | 268.0 | A |
| 110 | 90 | 188 | 154 | 72 | 62 | 57 | 268.0 | A |
| 140 | 63 | 233 | 175 | 84 | 48 | 66 | 221.0 | A |
| 140 | 75 | 233 | 175 | 84 | 55 | 66 | 231.0 | A |
| 140 | 90 | 233 | 175 | 84 | 62 | 66 | 234.0 | A |
| 140 | 110 | 233 | 175 | 84 | 72 | 66 | 243.0 | A |
| 160 | 63 | 258 | 192 | 90 | 48 | 77 | 221.0 | A |
| 160 | 90 | 258 | 192 | 90 | 62 | 77 | 235.0 | A |
| 160 | 110 | 258 | 192 | 90 | 72 | 77 | 245.0 | A |
| 160 | 140 | 258 | 192 | 90 | 84 | 77 | 256.1 | A |
| 160 | 140 | 258 | 192 | 90 | 84 | 77 | 340.0 | A |
| 225 | 63 | 324 | 355 | 110 | 48 | 220 | 412.0 | A |
| 225 | 90 | 324 | 355 | 110 | 62 | 220 | 412.0 | A |
| 225 | 110 | 324 | 355 | 110 | 72 | 220 | 412.0 | A |
| 225 | 140 | 324 | 355 | 110 | 84 | 220 | 413.0 | A |
| 225 | 140 | 324 | 335 | 110 | 84 | 220 | 412.0 | A |
| 225 | 160 | 324 | 355 | 110 | 90 | 220 | 396.0 | A |








## COOL-FIT 4.0 Reducer
## d32-d225

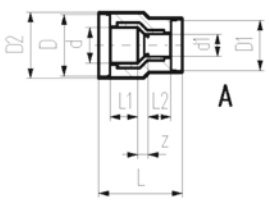
**Model:**

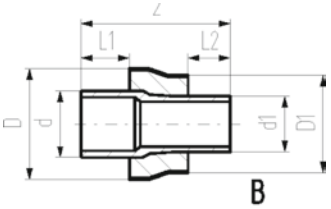
- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a water and vapour tight sealing
- B: Spigot Fitting with free end
- 738 904 351 and 738 904 368 for direct transitions from COOL-FIT 4.0 to COOL-FIT 2.0

| d (mm) | d1 (mm) | D (mm) | D1 (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 40 | 32 | 110 | 90 | 32 | 11 | 16 | **738 903 206** | 0.250 |
| 50 | 32 | 110 | 90 | 40 | 11 | 16 | **738 903 209** | 0.280 |
| 50 | 40 | 110 | 110 | 40 | 11 | 16 | **738 903 210** | 0.320 |
| 63 | 32 | 125 | 90 | 50 | 11 | 16 | **738 903 212** | 0.217 |
| 63 | 40 | 125 | 110 | 50 | 11 | 16 | **738 903 213** | 0.232 |
| 63 | 50 | 125 | 110 | 50 | 11 | 16 | **738 903 214** | 0.243 |
| 75 | 63 | 140 | 125 | 65 | 11 | 16 | **738 903 318** | 0.264 |
| 90 | 63 | 160 | 125 | 80 | 11 | 16 | **738 903 322** | 0.387 |
| 90 | 75 | 160 | 140 | 80 | 11 | 16 | **738 903 323** | 0.416 |
| 110 | 63 | 180 | 125 | 100 | 11 | 16 | **738 903 327** | 0.566 |
| 110 | 75 | 180 | 140 | 100 | 11 | 16 | **738 903 328** | 0.577 |
| 110 | 90 | 180 | 160 | 100 | 11 | 16 | **738 903 329** | 0.644 |
| 140 | 63 | 225 | 125 | 125 | 11 | 16 | **738 903 340** | 1.118 |
| 140 | 75 | 225 | 140 | 125 | 11 | 16 | **738 903 341** | 1.202 |
| 140 | 90 | 225 | 160 | 125 | 11 | 16 | **738 903 342** | 1.251 |
| 140 | 110 | 225 | 180 | 125 | 11 | 16 | **738 903 343** | 1.271 |
| 160 | 63 | 250 | 125 | 150 | 11 | 16 | **738 903 347** | 1.298 |
| 160 | 90 | 250 | 160 | 150 | 11 | 16 | **738 903 349** | 1.323 |
| 160 | 110 | 250 | 180 | 150 | 11 | 16 | **738 903 350** | 1.362 |
| 160 | 140 | 250 | 225 | 150 | 11 | 16 | **738 903 351** | 1.845 |
| 160 | 140 | 250 | 200 | 150 | 11 | 16 | **738 904 351** | 1.664 |
| 225 | 63 | 315 | 125 | 200 | 11 | 16 | **738 903 364** | 2.960 |
| 225 | 90 | 315 | 160 | 200 | 11 | 16 | **738 903 366** | 3.018 |
| 225 | 110 | 315 | 180 | 200 | 11 | 16 | **738 903 367** | 3.079 |
| 225 | 140 | 315 | 225 | 200 | 11 | 16 | **738 903 368** | 3.443 |
| 225 | 140 | 315 | 200 | 200 | 11 | 16 | **738 904 368** | 3.172 |
| 225 | 160 | 315 | 250 | 200 | 11 | 16 | **738 903 369** | 3.550 |

| d (mm) | d1 (mm) | D2 (mm) | L (mm) | L1 (mm) | L2 (mm) | z (mm) | Type |
|---|---|---|---|---|---|---|---|
| 40 | 32 | 117 | 143 | 40 | 36 | 17 | A |
| 50 | 32 | 117 | 151 | 44 | 36 | 21 | A |
| 50 | 40 | 117 | 149 | 44 | 40 | 15 | A |
| 63 | 32 | 132 | 160 | 48 | 36 | 26 | A |
| 63 | 40 | 132 | 159 | 48 | 40 | 21 | A |
| 63 | 50 | 132 | 159 | 48 | 44 | 17 | A |
| 75 | 63 | | | 55 | 48 | 170 | B |
| 90 | 63 | | | 62 | 48 | 190 | B |
| 90 | 75 | | | 62 | 55 | 189 | B |
| 110 | 63 | | | 72 | 48 | 204 | B |
| 110 | 75 | | | 72 | 55 | 205 | B |
| 110 | 90 | | | 72 | 62 | 205 | B |
| 140 | 63 | | | 84 | 48 | 225 | B |
| 140 | 75 | | | 84 | 55 | 237 | B |
| 140 | 90 | | | 84 | 62 | 238 | B |
| 140 | 110 | | | 84 | 72 | 233 | B |
| 160 | 63 | | | 90 | 48 | 244 | B |
| 160 | 90 | | | 90 | 62 | 244 | B |
| 160 | 110 | | | 90 | 72 | 242 | B |
| 160 | 140 | | | 90 | 84 | 257 | B |
| 160 | 140 | | | 90 | 84 | 257 | B |
| 225 | 63 | | | 110 | 48 | 295 | B |

table continued on the next page




| d (mm) | d1 (mm) | D2 (mm) | L (mm) | L1 (mm) | L2 (mm) | z (mm) | Type |
|---|---|---|---|---|---|---|---|
| 225 | 90 | | | 110 | 62 | 295 | B |
| 225 | 110 | | | 110 | 72 | 295 | B |
| 225 | 140 | | | 110 | 84 | 296 | B |
| 225 | 140 | | | 110 | 84 | 296 | B |
| 225 | 160 | | | 110 | 90 | 279 | B |



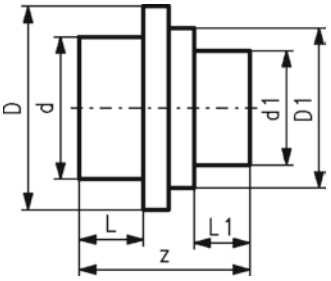
## COOL-FIT 4.0 Reducer
## d250-d450

**Model:**

- Pre-insulated PE100 SDR 17 metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)

**Note:**

Peeling of free ends necessary prior to jointing




| d (mm) | d1 (mm) | D (mm) | D1 (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | z (mm) | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 250 | 225 | 355 | 315 | 250 | 17 | 10 | **738 903 825** | 2.800 | 123 | 110 | 332 | B |
| 280 | 225 | 400 | 315 | 250 | 17 | 10 | **738 903 829** | 4.700 | 126 | 110 | 335 | B |
| 280 | 250 | 450 | 355 | 250 | 17 | 10 | **738 903 830** | 5.100 | 133 | 110 | 365 | B |
| 315 | 225 | 450 | 315 | 300 | 17 | 10 | **738 903 836** | 7.100 | 126 | 110 | 340 | B |
| 315 | 250 | 450 | 355 | 300 | 17 | 10 | **738 903 837** | 7.400 | 133 | 123 | 365 | B |
| 315 | 280 | 450 | 400 | 300 | 17 | 10 | **738 903 838** | 6.800 | 133 | 126 | 365 | B |
| 355 | 250 | 500 | 355 | 350 | 17 | 10 | **738 903 844** | 8.200 | 148 | 123 | 390 | B |
| 355 | 280 | 500 | 400 | 350 | 17 | 10 | **738 903 845** | 7.700 | 148 | 126 | 390 | B |
| 355 | 315 | 500 | 450 | 350 | 17 | 10 | **738 903 846** | 8.300 | 148 | 133 | 390 | B |
| 400 | 280 | 560 | 400 | 400 | 17 | 10 | **738 903 853** | 9.100 | 150 | 126 | 415 | B |
| 400 | 315 | 560 | 450 | 400 | 17 | 10 | **738 903 854** | 11.400 | 150 | 133 | 420 | B |
| 400 | 355 | 560 | 500 | 400 | 17 | 10 | **738 903 855** | 11.000 | 150 | 148 | 405 | B |
| 450 | 280 | 630 | 400 | 450 | 17 | 10 | **738 903 862** | 13.200 | 165 | 126 | 390 | B |
| 450 | 315 | 630 | 450 | 450 | 17 | 10 | **738 903 863** | 13.600 | 165 | 133 | 390 | B |
| 450 | 355 | 630 | 500 | 450 | 17 | 10 | **738 903 864** | 13.700 | 165 | 148 | 393 | B |
| 450 | 400 | 630 | 560 | 450 | 17 | 10 | **738 903 865** | 14.800 | 165 | 150 | 395 | B |



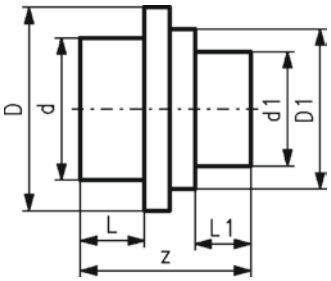
## COOL-FIT 4.0 Reducer
## d250-d450, SDR11

**Model:**

- Pre-insulated PE100 SDR11 metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)

**Note:**

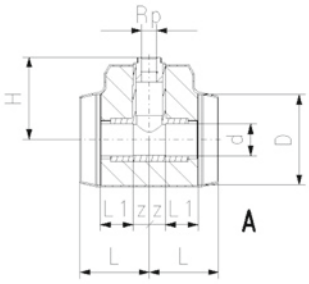
Peeling of free ends necessary prior to jointing
Make to order

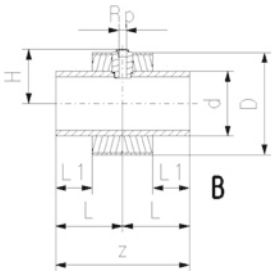



| d (mm) | d1 (mm) | D (mm) | D1 (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | z (mm) | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 250 | 225 | 355 | 315 | 250 | 11 | 16 | **738 903 925** | 5.365 | 123 | 110 | 332 | B |
| 280 | 225 | 400 | 315 | 250 | 11 | 16 | **738 903 929** | 6.750 | 126 | 110 | 335 | B |
| 280 | 250 | 400 | 355 | 250 | 11 | 16 | **738 903 930** | 7.228 | 126 | 123 | 340 | B |
| 315 | 225 | 450 | 315 | 300 | 11 | 16 | **738 903 936** | 8.690 | 133 | 110 | 365 | B |
| 315 | 250 | 450 | 355 | 300 | 11 | 16 | **738 903 937** | 9.340 | 133 | 123 | 365 | B |
| 315 | 280 | 450 | 400 | 300 | 11 | 16 | **738 903 939** | 9.660 | 133 | 126 | 365 | B |
| 355 | 250 | 500 | 355 | 350 | 11 | 16 | **738 903 944** | 10.218 | 148 | 123 | 390 | B |
| 355 | 280 | 500 | 400 | 350 | 11 | 16 | **738 903 945** | 10.472 | 148 | 126 | 390 | B |
| 355 | 315 | 500 | 450 | 350 | 11 | 16 | **738 903 946** | 10.960 | 148 | 133 | 390 | B |
| 400 | 280 | 560 | 400 | 400 | 11 | 16 | **738 903 953** | 11.590 | 150 | 126 | 415 | B |
| 400 | 315 | 560 | 450 | 400 | 11 | 16 | **738 903 954** | 12.590 | 150 | 133 | 415 | B |
| 400 | 355 | 560 | 500 | 400 | 11 | 16 | **738 903 955** | 12.980 | 150 | 148 | 420 | B |
| 450 | 280 | 630 | 400 | 450 | 11 | 16 | **738 903 962** | 17.900 | 165 | 126 | 405 | B |
| 450 | 315 | 630 | 450 | 450 | 11 | 16 | **738 903 963** | 18.500 | 165 | 133 | 390 | B |
| 450 | 355 | 630 | 500 | 450 | 11 | 16 | **738 903 964** | 19.300 | 165 | 148 | 393 | B |
| 450 | 400 | 630 | 560 | 450 | 11 | 16 | **738 903 965** | 20.336 | 165 | 150 | 395 | B |






## COOL-FIT 4.0 Installation fitting type 313 Rp
## d32-d225

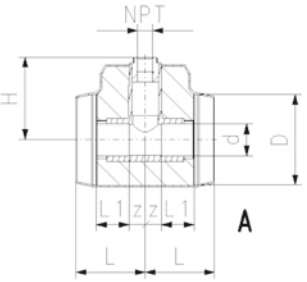
**Model:**

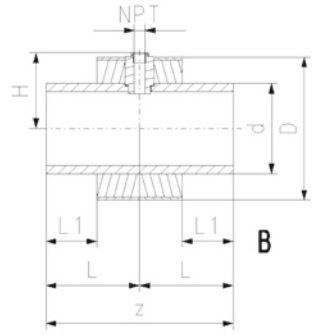
- Pre-insulated, PE100, SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- With threaded branch for sensors (i.e temperature, pressure)
- A: Electrofusion Fitting with integrated sealing lip, for a water and vapour tight sealing
- B: Spigot Fitting with free end

| d (mm) | D (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | H (mm) | L (mm) | L1 (mm) | z (mm) | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 90 | Rp | ½ | 25 | 11 | 16 | **738 313 608** | 0.169 | 95 | 79 | 36 | 18 | A |
| 40 | 110 | Rp | ½ | 32 | 11 | 16 | **738 313 609** | 0.267 | 105 | 87 | 40 | 22 | A |
| 40 | 110 | Rp | ¾ | 32 | 11 | 16 | **738 313 659** | 0.269 | 108 | 87 | 40 | 22 | A |
| 50 | 110 | Rp | ½ | 40 | 11 | 16 | **738 313 610** | 0.354 | 107 | 94 | 44 | 25 | A |
| 50 | 110 | Rp | ¾ | 40 | 11 | 16 | **738 313 660** | 0.356 | 110 | 94 | 44 | 25 | A |
| 63 | 125 | Rp | ½ | 50 | 11 | 16 | **738 313 611** | 0.537 | 120 | 103 | 48 | 30 | A |
| 63 | 125 | Rp | ¾ | 50 | 11 | 16 | **738 313 661** | 0.539 | 123 | 103 | 48 | 30 | A |
| 75 | 140 | Rp | ½ | 65 | 11 | 16 | **738 313 612** | 0.773 | 127 | 116 | 55 | 36 | A |
| 75 | 140 | Rp | ¾ | 65 | 11 | 16 | **738 313 662** | 0.774 | 130 | 116 | 55 | 36 | A |
| 90 | 160 | Rp | ½ | 80 | 11 | 16 | **738 313 613** | 1.164 | 139 | 130 | 62 | 43 | A |
| 90 | 160 | Rp | ¾ | 80 | 11 | 16 | **738 313 663** | 1.165 | 142 | 130 | 62 | 43 | A |
| 110 | 180 | Rp | ½ | 100 | 11 | 16 | **738 313 614** | 1.944 | 151 | 154 | 72 | 57 | A |
| 110 | 180 | Rp | ¾ | 100 | 11 | 16 | **738 313 664** | 1.944 | 154 | 154 | 72 | 57 | A |
| 140 | 225 | Rp | ½ | 125 | 11 | 16 | **738 313 616** | 3.974 | 187 | 175 | 84 | 66 | A |
| 140 | 225 | Rp | ¾ | 125 | 11 | 16 | **738 313 666** | 3.964 | 190 | 175 | 84 | 66 | A |
| 160 | 250 | Rp | ½ | 150 | 11 | 16 | **738 313 617** | 2.496 | 134 | 165 | 90 | 330 | B |
| 160 | 250 | Rp | ¾ | 150 | 11 | 16 | **738 313 667** | 2.489 | 134 | 165 | 90 | 330 | B |
| 225 | 315 | Rp | ½ | 200 | 11 | 16 | **738 313 620** | 5.155 | 166 | 185 | 110 | 370 | B |
| 225 | 315 | Rp | ¾ | 200 | 11 | 16 | **738 313 670** | 5.146 | 169 | 185 | 110 | 370 | B |






## COOL-FIT 4.0 Installation fitting type 313 NPT
## d32-d225

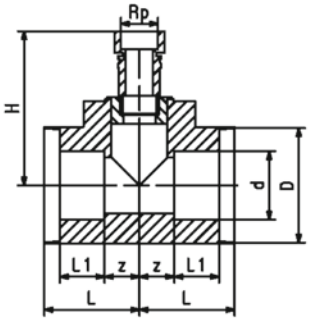
**Model:**

- Pre-insulated PE100 SDR11 ANSI
- Insulation made from GF HE foam
- Impact resistant. Color: black
- With threaded branch for sensors (i.e temperature, pressure)
- A: Electrofusion Fitting with integrated sealing lip, for a water and vapour tight sealing
- B: Spigot Fitting with free end

| d (mm) | D (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | H (mm) | z (mm) | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 90 | NPT | ½ | 25 | 11 | 16 | **738 313 508** | 0.169 | 79 | 36 | 95 | 18 | A |
| 40 | 110 | NPT | ½ | 32 | 11 | 16 | **738 313 509** | 0.267 | 87 | 40 | 105 | 22 | A |
| 40 | 110 | NPT | ¾ | 32 | 11 | 16 | **738 313 559** | 0.269 | 87 | 40 | 108 | 22 | A |
| 50 | 110 | NPT | ½ | 40 | 11 | 16 | **738 313 510** | 0.354 | 94 | 44 | 107 | 25 | A |
| 50 | 110 | NPT | ¾ | 40 | 11 | 16 | **738 313 560** | 0.356 | 94 | 44 | 110 | 25 | A |
| 63 | 125 | NPT | ½ | 50 | 11 | 16 | **738 313 511** | 0.537 | 103 | 48 | 120 | 30 | A |
| 63 | 125 | NPT | ¾ | 50 | 11 | 16 | **738 313 561** | 0.539 | 103 | 48 | 123 | 30 | A |
| 75 | 140 | NPT | ½ | 65 | 11 | 16 | **738 313 512** | 0.773 | 116 | 55 | 127 | 36 | A |
| 75 | 140 | NPT | ¾ | 65 | 11 | 16 | **738 313 562** | 0.774 | 116 | 55 | 130 | 36 | A |
| 90 | 160 | NPT | ½ | 80 | 11 | 16 | **738 313 513** | 1.164 | 130 | 62 | 139 | 43 | A |
| 90 | 160 | NPT | ¾ | 80 | 11 | 16 | **738 313 563** | 1.165 | 130 | 62 | 142 | 43 | A |
| 110 | 180 | NPT | ½ | 100 | 11 | 16 | **738 313 514** | 1.944 | 154 | 72 | 151 | 57 | A |
| 110 | 180 | NPT | ¾ | 100 | 11 | 16 | **738 313 564** | 1.944 | 154 | 72 | 154 | 57 | A |
| 140 | 225 | NPT | ½ | 125 | 11 | 16 | **738 313 516** | 3.974 | 175 | 84 | 187 | 66 | A |
| 140 | 225 | NPT | ¾ | 125 | 11 | 16 | **738 313 566** | 3.964 | 175 | 84 | 190 | 66 | A |
| 160 | 250 | NPT | ½ | 150 | 11 | 16 | **738 313 517** | 2.496 | 165 | 90 | 134 | 330 | B |
| 160 | 250 | NPT | ¾ | 150 | 11 | 16 | **738 313 567** | 2.489 | 165 | 90 | 134 | 330 | B |
| 225 | 315 | NPT | ½ | 200 | 11 | 16 | **738 313 520** | 5.155 | 185 | 110 | 166 | 370 | B |
| 225 | 315 | NPT | ¾ | 200 | 11 | 16 | **738 313 570** | 5.146 | 185 | 110 | 169 | 370 | B |

# COOL-FIT 4.0 Transition Fittings





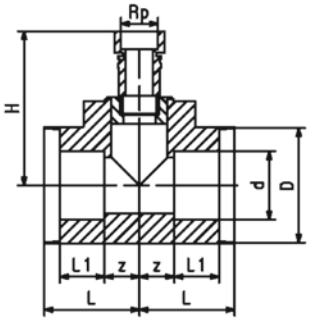

## COOL-FIT 4.0 Transition Tee90° PE/brass
## With female thread Rp

**Model:**

- Pre-insulated PE100 SDR11, metric
- Brass CuZn40Pb2 with female thread Rp
- Insulation made from GF HE foam
- Impact resistant. Color: black
- Electrofusion Fitting with integrated sealing lip, for a water and vapour tight sealing

| d (mm) | D (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | H (mm) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 125 | Rp | 2 | 50 | 11 | 16 | **738 953 061** | 1.700 | 222 | 103 | 48 | 30 |
| 75 | 140 | Rp | 2 | 65 | 11 | 16 | **738 953 062** | 1.900 | 226 | 116 | 55 | 36 |
| 90 | 160 | Rp | 2 | 80 | 11 | 16 | **738 953 063** | 2.300 | 241 | 130 | 62 | 43 |
| 110 | 180 | Rp | 2 | 100 | 11 | 16 | **738 953 064** | 3.100 | 251 | 154 | 72 | 57 |
| 160 | 250 | Rp | 2 | 150 | 11 | 16 | **738 953 067** | 5.450 | 289 | 165 | 90 | 77 |
| 225 | 315 | Rp | 2 | 200 | 11 | 16 | **738 953 070** | 18.100 | 446 | 185 | 110 | 220 |
| 40 | 110 | Rp | 1 | 32 | 11 | 16 | **738 953 159** | 0.500 | 173 | 87 | 40 | 22 |
| 50 | 110 | Rp | 1 | 40 | 11 | 16 | **738 953 160** | 0.588 | 173 | 94 | 44 | 25 |
| 63 | 125 | Rp | 1 | 50 | 11 | 16 | **738 953 161** | 0.760 | 186 | 103 | 48 | 30 |
| 75 | 140 | Rp | 1 | 65 | 11 | 16 | **738 953 162** | 1.246 | 193 | 116 | 55 | 36 |
| 90 | 160 | Rp | 1 | 80 | 11 | 16 | **738 953 163** | 1.650 | 205 | 130 | 62 | 43 |
| 110 | 180 | Rp | 1 | 100 | 11 | 16 | **738 953 164** | 2.750 | 215 | 154 | 72 | 57 |
| 160 | 250 | Rp | 1 | 150 | 11 | 16 | **738 953 167** | 4.450 | 253 | 165 | 90 | 77 |
| 225 | 315 | Rp | 1 | 200 | 11 | 16 | **738 953 170** | 17.100 | 444 | 185 | 110 | 220 |





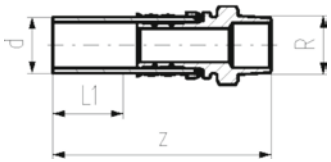

## COOL-FIT 4.0 Transition Tee90° PE/stainless steel
## With female thread Rp

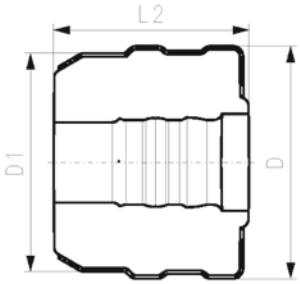
**Model:**

- Pre-insulated PE100 SDR11, metric
- Stainless steel 1.4404 / 316L with female thread Rp
- Insulation made from GF HE foam
- Impact resistant. Color: black
- Electrofusion Fitting with integrated sealing lip, for a water and vapour tight sealing

| d (mm) | D (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | H (mm) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 125 | Rp | 2 | 50 | 11 | 16 | **738 943 061** | 1.700 | 222 | 103 | 48 | 30 |
| 75 | 140 | Rp | 2 | 65 | 11 | 16 | **738 943 062** | 2.150 | 226 | 116 | 55 | 36 |
| 90 | 160 | Rp | 2 | 80 | 11 | 16 | **738 943 063** | 2.530 | 241 | 130 | 62 | 43 |
| 110 | 180 | Rp | 2 | 100 | 11 | 16 | **738 943 064** | 3.650 | 251 | 154 | 72 | 57 |
| 160 | 250 | Rp | 2 | 150 | 11 | 16 | **738 943 067** | 5.380 | 289 | 165 | 90 | 77 |
| 225 | 315 | Rp | 2 | 200 | 11 | 16 | **738 943 070** | 18.100 | 446 | 185 | 110 | 220 |
| 40 | 110 | Rp | 1 | 32 | 11 | 16 | **738 943 159** | 0.490 | 173 | 87 | 40 | 22 |
| 50 | 110 | Rp | 1 | 40 | 11 | 16 | **738 943 160** | 0.575 | 173 | 94 | 44 | 25 |
| 63 | 125 | Rp | 1 | 50 | 11 | 16 | **738 943 161** | 0.747 | 186 | 103 | 48 | 30 |
| 75 | 140 | Rp | 1 | 65 | 11 | 16 | **738 943 162** | 1.233 | 193 | 116 | 55 | 36 |
| 90 | 160 | Rp | 1 | 80 | 11 | 16 | **738 943 163** | 1.633 | 205 | 130 | 62 | 43 |
| 110 | 180 | Rp | 1 | 100 | 11 | 16 | **738 943 164** | 2.733 | 215 | 154 | 72 | 57 |
| 160 | 250 | Rp | 1 | 150 | 11 | 16 | **738 943 167** | 4.483 | 253 | 165 | 90 | 77 |
| 225 | 315 | Rp | 1 | 200 | 11 | 16 | **738 943 170** | 17.100 | 444 | 185 | 110 | 220 |





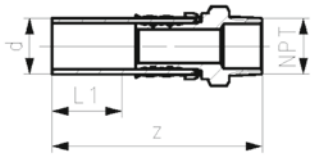

## COOL-FIT 4.0 Adaptor fitting PE/stainless steel With male thread R

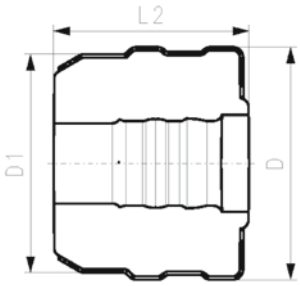
**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Stainless steel 1.4404 / 316L with male thread R
- Gasket: O-ring EPDM
- Including Insulation half shells

| d (mm) | D (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | D1 (mm) | L1 (mm) | L2 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 103 | R | ½ | 25 | 11 | 16 | **738 943 508** | 0.224 | 90 | 36 | 80 | 130 |
| 32 | 103 | R | ¾ | 25 | 11 | 16 | **738 943 518** | 0.232 | 90 | 36 | 80 | 134 |
| 32 | 103 | R | 1 | 25 | 11 | 16 | **738 943 528** | 0.241 | 90 | 36 | 80 | 134 |
| 40 | 128 | R | 1 ¼ | 32 | 11 | 16 | **738 943 509** | 0.655 | 110 | 40 | 91 | 156 |
| 50 | 138 | R | 1 ½ | 40 | 11 | 16 | **738 943 510** | 1.020 | 110 | 44 | 96 | 168 |
| 63 | 149 | R | 2 | 50 | 11 | 16 | **738 943 511** | 1.458 | 125 | 48 | 103 | 179 |






## COOL-FIT 4.0 Adaptor fitting PE/stainless steel with male thread NPT

**Model:**

- Spigot fitting PE100 SDR11, ANSI with free end
- Stainless steel 1.4404 / 316L with male thread NPT
- Gasket: O-ring EPDM
- Including insulation half shells

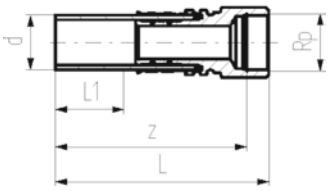
| d (mm) | D (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | D1 (mm) | L1 (mm) | L2 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 103 | NPT | ½ | 25 | 11 | 16 | **738 943 808** | 0.224 | 90 | 36 | 80 | 129 |
| 32 | 103 | NPT | ¾ | 25 | 11 | 16 | **738 943 818** | 0.232 | 90 | 36 | 80 | 133 |
| 32 | 103 | NPT | 1 | 25 | 11 | 16 | **738 943 828** | 0.241 | 90 | 36 | 80 | 134 |
| 40 | 128 | NPT | 1 ¼ | 32 | 11 | 16 | **738 943 809** | 0.655 | 110 | 40 | 91 | 151 |
| 50 | 138 | NPT | 1 ½ | 40 | 11 | 16 | **738 943 810** | 1.021 | 110 | 44 | 96 | 163 |
| 63 | 149 | NPT | 2 | 50 | 11 | 16 | **738 943 811** | 1.459 | 125 | 48 | 103 | 174 |

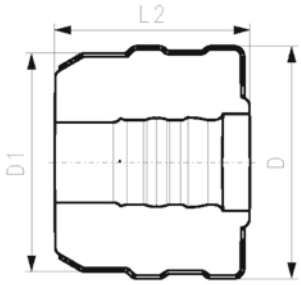


## COOL-FIT 4.0 Adaptor fitting PE/stainless steel
## With female thread Rp

**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Stainless steel 1.4404 / 316L with female thread Rp
- Gasket: O-ring EPDM
- Including Insulation half shells



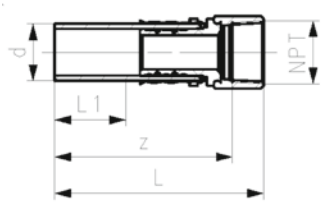

| d (mm) | D (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | D1 (mm) | L (mm) | L1 (mm) | L2 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 104 | Rp | ½ | 25 | 11 | 16 | **738 943 008** | 0.247 | 90 | 132 | 36 | 101 | 118 |
| 32 | 104 | Rp | ¾ | 25 | 11 | 16 | **738 943 018** | 0.272 | 90 | 132 | 36 | 101 | 116 |
| 32 | 104 | Rp | 1 | 25 | 11 | 16 | **738 943 028** | 0.297 | 90 | 132 | 36 | 101 | 115 |
| 40 | 128 | Rp | 1 ¼ | 32 | 11 | 16 | **738 943 009** | 0.683 | 110 | 157 | 40 | 91 | 141 |
| 50 | 138 | Rp | 1 ½ | 40 | 11 | 16 | **738 943 010** | 0.734 | 110 | 157 | 44 | 96 | 128 |
| 63 | 149 | Rp | 2 | 50 | 11 | 16 | **738 943 011** | 1.244 | 125 | 164 | 48 | 103 | 140 |

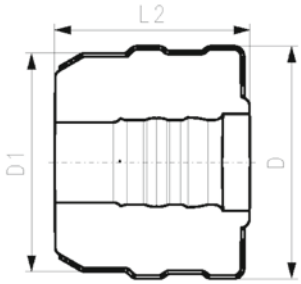


## COOL-FIT 4.0 Adaptor fitting PE/stainless steel
## With female thread NPT

**Model:**

- Spigot fitting PE100 SDR11, ANSI with free end
- Stainless steel 1.4404 / 316L with female thread NPT
- Gasket: O-ring EPDM
- Including Insulation half shells



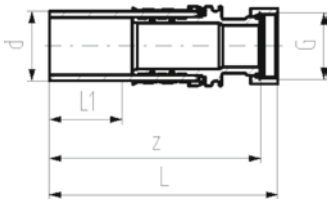

| d (mm) | D (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | D1 (mm) | L (mm) | L1 (mm) | L2 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 104 | NPT | ½ | 25 | 11 | 16 | **738 943 408** | 0.247 | 90 | 132 | 36 | 101 | 114 |
| 32 | 104 | NPT | ¾ | 25 | 11 | 16 | **738 943 418** | 0.272 | 90 | 132 | 36 | 101 | 114 |
| 32 | 104 | NPT | 1 | 25 | 11 | 16 | **738 943 428** | 0.297 | 90 | 132 | 36 | 101 | 114 |
| 40 | 128 | NPT | 1 ¼ | 32 | 11 | 16 | **738 943 409** | 0.683 | 110 | 147 | 40 | 91 | 125 |
| 50 | 138 | NPT | 1 ½ | 40 | 11 | 16 | **738 943 410** | 0.735 | 110 | 147 | 44 | 96 | 124 |
| 63 | 149 | NPT | 2 | 50 | 11 | 16 | **738 943 411** | 1.245 | 125 | 159 | 48 | 103 | 136 |

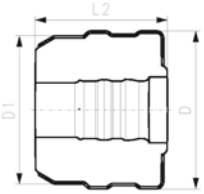


## COOL-FIT 4.0 Adaptor fitting PE/stainless steel
## With loose union nut G

**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Stainless steel 1.4404 / 316L with loose union nut G
- Including flat seal EPDM
- Including insulation half shells



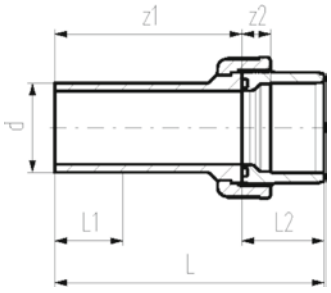

| d (mm) | D (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | D1 (mm) | L (mm) | L1 (mm) | L2 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 104 | G | ½ | 25 | 11 | 16 | **738 943 308** | 0.250 | 90 | 133 | 36 | 101 | 126 |
| 32 | 104 | G | ¾ | 25 | 11 | 16 | **738 943 318** | 0.264 | 90 | 135 | 36 | 101 | 129 |
| 32 | 104 | G | 1 | 25 | 11 | 16 | **738 943 328** | 0.296 | 90 | 135 | 36 | 101 | 129 |
| 40 | 128 | G | 1 ¼ | 32 | 11 | 16 | **738 943 309** | 0.595 | 110 | 155 | 40 | 91 | 148 |
| 40 | 128 | G | 1 ½ | 32 | 11 | 16 | **738 943 319** | 0.655 | 110 | 157 | 40 | 91 | 148 |
| 50 | 138 | G | 1 ½ | 40 | 11 | 16 | **738 943 310** | 0.820 | 110 | 164 | 44 | 96 | 154 |
| 63 | 149 | G | 2 | 50 | 11 | 16 | **738 943 311** | 1.307 | 125 | 186 | 48 | 103 | 170 |

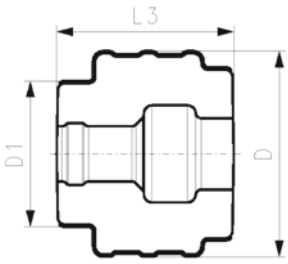


## COOL-FIT 4.0 Adaptor union PE/ABS

**Model:**

- Union bush: ABS Solvent cement socket
- Union End: Spigot fitting PE100 SDR11, metric with free end
- Gasket: O-ring EPDM Nr. 748 410 008-014
- Union Nut: ABS
- Including insulation half shells



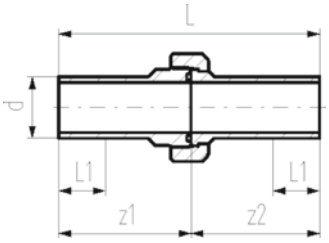

| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | D1 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 134 | 25 | 11 | 10 | **738 513 708** | 0.169 | 90 | 137 | 36 | 33 | 109 | 104 | 11 |
| 40 | 143 | 32 | 11 | 10 | **738 513 709** | 0.256 | 110 | 156 | 40 | 39 | 126 | 117 | 13 |
| 50 | 154 | 40 | 11 | 10 | **738 513 710** | 0.334 | 110 | 169 | 44 | 46 | 135 | 123 | 15 |
| 63 | 172 | 50 | 11 | 10 | **738 513 711** | 0.522 | 125 | 190 | 48 | 58 | 152 | 132 | 21 |
| 75 | 210 | 65 | 11 | 10 | **738 513 712** | 0.996 | 140 | 211 | 55 | 62 | 170 | 149 | 18 |
| 90 | 233 | 80 | 11 | 10 | **738 513 713** | 1.336 | 160 | 215 | 62 | 69 | 167 | 146 | 18 |
| 110 | 263 | 100 | 11 | 10 | **738 513 714** | 1.900 | 180 | 235 | 72 | 72 | 177 | 163 | 11 |

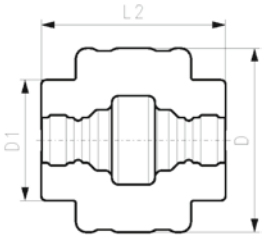


## COOL-FIT 4.0 Union PE/PE

**Model:**

- Union bush: Spigot fitting PE100 SDR11, metric with free end
- Union End: Spigot fitting PE100 SDR11, metric with free end
- Gasket: O-ring EPDM Nr. 748 410 008-014
- Union Nut: PEGF25
- Including insulation half shells



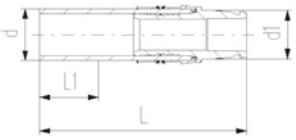

| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | D1 (mm) | L (mm) | L1 (mm) | L2 (mm) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 139 | 25 | 11 | 16 | **738 513 608** | 0.223 | 90 | 211 | 36 | 139 | 107 | 104 |
| 40 | 153 | 32 | 11 | 16 | **738 513 609** | 0.363 | 110 | 234 | 40 | 158 | 118 | 116 |
| 50 | 165 | 40 | 11 | 16 | **738 513 610** | 0.468 | 110 | 247 | 44 | 163 | 124 | 123 |
| 63 | 185 | 50 | 11 | 16 | **738 513 611** | 0.584 | 125 | 268 | 48 | 176 | 136 | 132 |

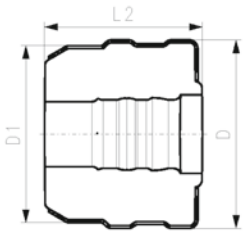


## COOL-FIT 4.0 Adaptor fitting PE/iFIT

**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- iFIT module stainless steel 1.4404 / 316L
- Including insulation half shells

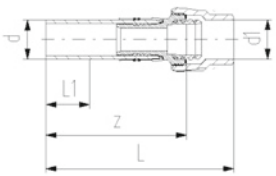


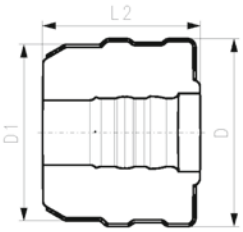




| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | d1 (mm) | D1 (mm) | L (mm) | L1 (mm) | L2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 103 | 25 | 11 | 10 | **738 943 108** | 0.256 | 25-32 | 90 | 132 | 36 | 80 |

## COOL-FIT 4.0 Adaptor fitting PE/Sanipex MT





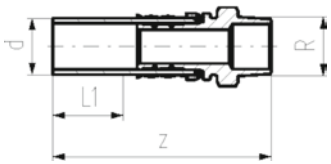

**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Sanipex MT adaptor brass CuZn40Pb2
- Including insulation half shells

| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | d1 (mm) | D1 (mm) | L (mm) | L1 (mm) | L2 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 103 | 25 | 11 | 10 | **738 953 118** | 0.476 | 32 | 90 | 174 | 36 | 101 | 135 |

## COOL-FIT 2.0/4.0 Adaptor fitting PE/stainless steel With male thread R





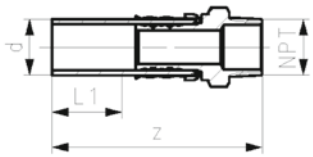

**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Stainless steel 1.4404 / 316L with male thread R
- Gasket: O-ring EPDM

| d (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 32 | R | ½ | 25 | 11 | 16 | **738 940 508** | 0.179 | 36 | 130 |
| 32 | R | ¾ | 25 | 11 | 16 | **738 940 518** | 0.187 | 36 | 134 |
| 32 | R | 1 | 25 | 11 | 16 | **738 940 528** | 0.196 | 36 | 134 |
| 40 | R | 1 ¼ | 32 | 11 | 16 | **738 940 509** | 0.572 | 40 | 156 |
| 50 | R | 1 ½ | 40 | 11 | 16 | **738 940 510** | 0.927 | 44 | 168 |
| 63 | R | 2 | 50 | 11 | 16 | **738 940 511** | 1.347 | 48 | 179 |

## COOL-FIT 2.0/4.0 Adaptor fitting PE/stainless steel With male thread NPT






**Model:**

- Spigot fitting PE100 SDR11, ANSI with free end
- Stainless steel 1.4404 / 316L with male thread NPT
- Gasket: O-ring EPDM

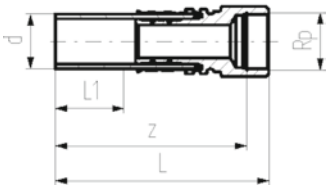
| d (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 32 | NPT | ½ | 25 | 11 | 16 | **738 940 808** | 0.179 | 132 | 36 | 118 |
| 32 | NPT | ¾ | 25 | 11 | 16 | **738 940 818** | 0.187 | 132 | 36 | 116 |
| 32 | NPT | 1 | 25 | 11 | 16 | **738 940 828** | 0.196 | 132 | 36 | 115 |
| 40 | NPT | 1 ¼ | 32 | 11 | 16 | **738 940 809** | 0.572 | 157 | 40 | 141 |
| 50 | NPT | 1 ½ | 40 | 11 | 16 | **738 940 810** | 0.927 | 150 | 44 | 128 |
| 63 | NPT | 2 | 50 | 11 | 16 | **738 940 811** | 1.347 | 164 | 48 | 140 |



## COOL-FIT 2.0/4.0 Adaptor fitting PE/stainless steel With female thread Rp

**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Stainless steel 1.4404 / 316L with femal thread Rp
- Gasket: O-ring EPDM



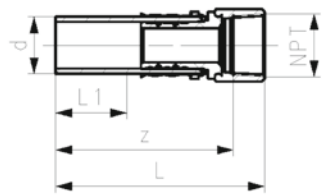

| d (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 32 | Rp | ½ | 25 | 11 | 16 | **738 940 008** | 0.183 | 132 | 36 | 118 |
| 32 | Rp | ¾ | 25 | 11 | 16 | **738 940 018** | 0.208 | 132 | 36 | 116 |
| 32 | Rp | 1 | 25 | 11 | 16 | **738 940 028** | 0.233 | 132 | 36 | 115 |
| 40 | Rp | 1 ¼ | 32 | 11 | 16 | **738 940 009** | 0.600 | 157 | 40 | 141 |
| 50 | Rp | 1 ½ | 40 | 11 | 16 | **738 940 010** | 0.641 | 150 | 44 | 128 |
| 63 | Rp | 2 | 50 | 11 | 16 | **738 940 011** | 1.133 | 164 | 48 | 140 |



## COOL-FIT 2.0/4.0 Adaptor fitting PE/stainless steel With female thread NPT

**Model:**

- Spigot fitting PE100 SDR11, ANSI with free end
- Stainless steel 1.4404 / 316L with female thread NPT
- Gasket: O-ring EPDM



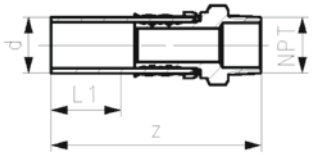

| d (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 32 | NPT | ½ | 25 | 11 | 16 | **738 940 408** | 0.183 | 132 | 36 | 114 |
| 32 | NPT | ¾ | 25 | 11 | 16 | **738 940 418** | 0.208 | 132 | 36 | 114 |
| 32 | NPT | 1 | 25 | 11 | 16 | **738 940 428** | 0.233 | 132 | 36 | 114 |
| 40 | NPT | 1 ¼ | 32 | 11 | 16 | **738 940 409** | 0.600 | 147 | 40 | 125 |
| 50 | NPT | 1 ½ | 40 | 11 | 16 | **738 940 410** | 0.641 | 147 | 44 | 124 |
| 63 | NPT | 2 | 50 | 11 | 16 | **738 940 411** | 1.133 | 159 | 48 | 136 |

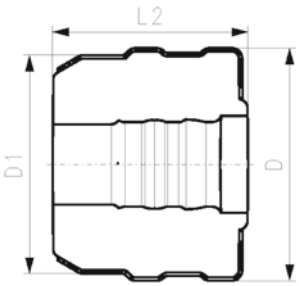


## COOL-FIT 4.0 Adaptor fitting PE/stainless steel with male thread NPT

**Model:**

- Spigot fitting PE100 SDR11, ANSI with free end
- Stainless steel 1.4404 / 316L with male thread NPT
- Gasket: O-ring EPDM
- Including insulation half shells



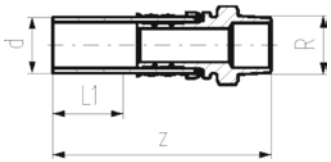

| d (mm) | D (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | D1 (mm) | L1 (mm) | L2 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 103 | NPT | ½ | 25 | 11 | 16 | **738 943 808** | 0.224 | 90 | 36 | 80 | 129 |
| 32 | 103 | NPT | ¾ | 25 | 11 | 16 | **738 943 818** | 0.232 | 90 | 36 | 80 | 133 |
| 32 | 103 | NPT | 1 | 25 | 11 | 16 | **738 943 828** | 0.241 | 90 | 36 | 80 | 134 |
| 40 | 128 | NPT | 1 ¼ | 32 | 11 | 16 | **738 943 809** | 0.655 | 110 | 40 | 91 | 151 |
| 50 | 138 | NPT | 1 ½ | 40 | 11 | 16 | **738 943 810** | 1.021 | 110 | 44 | 96 | 163 |
| 63 | 149 | NPT | 2 | 50 | 11 | 16 | **738 943 811** | 1.459 | 125 | 48 | 103 | 174 |



## COOL-FIT 2.0/4.0 Adaptor fitting PE/brass
## With male thread R

**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Brass CuZn40Pb2 with male thread R
- Gasket: O-ring EPDM



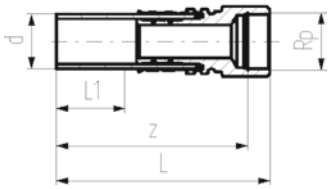

| d (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 32 | R | ½ | 25 | 11 | 16 | **738 950 508** | 0.188 | 36 | 130 |
| 32 | R | ¾ | 25 | 11 | 16 | **738 950 518** | 0.196 | 36 | 134 |
| 32 | R | 1 | 25 | 11 | 16 | **738 950 528** | 0.206 | 36 | 134 |
| 40 | R | 1 ¼ | 32 | 11 | 16 | **738 950 519** | 0.608 | 40 | 156 |
| 50 | R | 1 ½ | 40 | 11 | 16 | **738 950 510** | 0.986 | 44 | 168 |
| 63 | R | 2 | 50 | 11 | 16 | **738 950 511** | 1.433 | 48 | 179 |



## COOL-FIT 2.0/4.0 Adaptor fitting PE/brass
## With female thread Rp

**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Brass CuZn40Pb2 with female tread Rp
- Gasket: O-ring EPDM



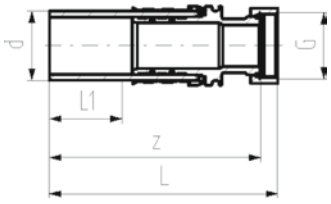

| d (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 32 | Rp | ½ | 25 | 11 | 16 | **738 950 008** | 0.192 | 132 | 36 | 118 |
| 32 | Rp | ¾ | 25 | 11 | 16 | **738 950 018** | 0.219 | 132 | 36 | 116 |
| 32 | Rp | 1 | 25 | 11 | 16 | **738 950 028** | 0.246 | 132 | 36 | 115 |
| 40 | Rp | 1 ¼ | 32 | 11 | 16 | **738 950 019** | 0.641 | 157 | 40 | 141 |
| 50 | Rp | 1 ½ | 40 | 11 | 16 | **738 950 010** | 0.684 | 150 | 44 | 128 |
| 63 | Rp | 2 | 50 | 11 | 16 | **738 950 011** | 1.209 | 164 | 48 | 140 |



## COOL-FIT 2.0/4.0 Adaptor fitting PE/brass
## With loose union nut G

**Model:**

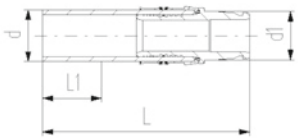
- Spigot fitting PE100 SDR11, metric with free end
- Brass CuZn40Pb2 with loose union nut G
- Including flat seal EPDM




| d (mm) | Thread | Size (inch) | DN (mm) | SDR | PN | Code | Weight (kg) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 32 | G | ¾ | 25 | 11 | 16 | **738 950 318** | 0.206 | 135 | 36 | 129 |
| 32 | G | 1 | 25 | 11 | 16 | **738 950 328** | 0.244 | 135 | 36 | 129 |
| 40 | G | 1 ¼ | 32 | 11 | 16 | **738 950 309** | 0.543 | 155 | 40 | 148 |
| 40 | G | 1 ½ | 32 | 11 | 16 | **738 950 319** | 0.607 | 157 | 40 | 148 |
| 50 | G | 1 ½ | 40 | 11 | 16 | **738 950 310** | 0.769 | 164 | 44 | 154 |
| 63 | G | 2 | 50 | 11 | 16 | **738 950 311** | 1.268 | 186 | 48 | 170 |

## COOL-FIT 2.0/4.0 Adaptor Fitting PE/iFIT





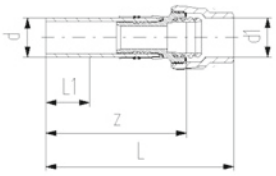

**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- iFIT module stainless steel 1.4404 / 316L

| d (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) |
|---|---|---|---|---|---|---|---|---|
| 32 | 25 | 11 | 10 | **738 940 108** | 0.211 | 132 | 36 | 80 |

## COOL-FIT 2.0/4.0 Adaptor fitting PE/Sanipex MT





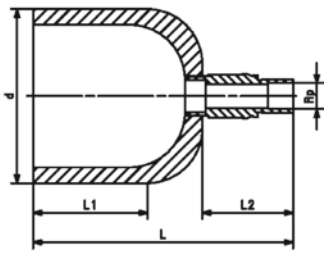

**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Sanipex MT adaptor brass CuZn40Pb2

| d (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | d1 (mm) | L (mm) | L1 (mm) | L2 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 25 | 11 | 10 | **738 950 118** | 0.412 | 32 | 174 | 36 | 101 | 135 |

## COOL-FIT 2.0/4.0 Transition cap PE/brass With female thread Rp

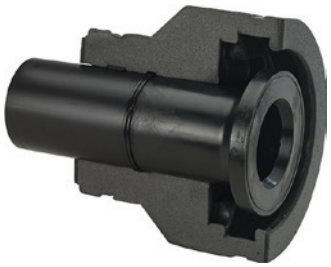





**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Brass CuZn40Pb2 with female tread Rp
- Gasket: O-ring EPDM

| d (mm) | Thread | Size (inch) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 32 | Rp | ½ | 25 | 11 | 16 | **738 960 008** | 0.200 | 107 | 36 | 69 |
| 40 | Rp | ½ | 32 | 11 | 16 | **738 960 009** | 0.210 | 113 | 40 | 73 |
| 50 | Rp | ½ | 40 | 11 | 16 | **738 960 010** | 0.250 | 117 | 44 | 73 |
| 63 | Rp | ½ | 50 | 11 | 16 | **738 960 011** | 0.300 | 121 | 48 | 73 |
| 75 | Rp | ½ | 65 | 11 | 16 | **738 960 012** | 0.400 | 128 | 55 | 73 |
| 90 | Rp | ½ | 80 | 11 | 16 | **738 960 013** | 0.476 | 135 | 62 | 73 |
| 110 | Rp | ½ | 100 | 11 | 16 | **738 960 014** | 0.695 | 145 | 72 | 73 |
| 140 | Rp | ½ | 125 | 11 | 16 | **738 960 016** | 0.954 | 209 | 84 | 73 |
| 160 | Rp | ½ | 150 | 11 | 16 | **738 960 017** | 1.300 | 193 | 90 | 73 |
| 225 | Rp | ½ | 200 | 11 | 16 | **738 960 020** | 2.532 | 221 | 110 | 73 |



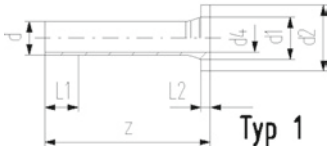
## COOL-FIT 2.0/4.0 Flange adaptor

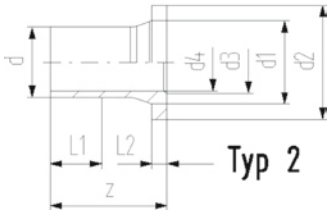
**Model:**

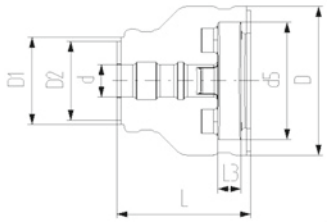
- PE100 SDR11, metric
- Suitable for flange connections to metric and/or ANSI/ASME B16.5
- Type 1 without chamfer, Type 2 with chamfer
- Profile flange gasket EPDM: metric No. 48 44 07, ANSI No. 48 44 05.
- Separate Fittings type A needed for joining

**Note:**

Backing ring and gasket not included



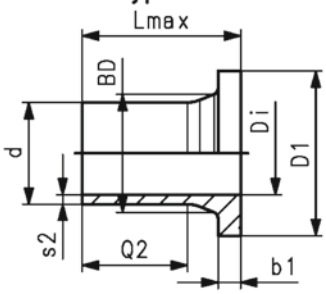




| d (mm) | DN (mm) | SDR | PN | Type | Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 32 | 25 | 11 | 16 | 1 | **738 710 008** | 0.320 |
| 32 | 25 | 11 | 16 | 1 | **738 710 108** | 0.320 |
| 40 | 32 | 11 | 16 | 1 | **738 710 009** | 0.480 |
| 40 | 32 | 11 | 16 | 1 | **738 710 109** | 0.480 |
| 50 | 40 | 11 | 16 | 1 | **738 710 010** | 0.620 |
| 63 | 50 | 11 | 16 | 1 | **738 710 011** | 0.910 |
| 50 | 40 | 11 | 16 | 1 | **738 710 110** | 0.620 |
| 75 | 65 | 11 | 16 | 2 | **738 710 012** | 1.220 |
| 90 | 80 | 11 | 16 | 2 | **738 710 013** | 1.650 |
| 90 | 80 | 11 | 16 | 2 | **738 710 113** | 1.650 |
| 110 | 100 | 11 | 16 | 2 | **738 710 014** | 2.390 |
| 140 | 125 | 11 | 16 | 2 | **738 710 016** | 3.660 |
| 160 | 150 | 11 | 16 | 2 | **738 710 017** | 4.800 |
| 225 | 200 | 11 | 16 | 2 | **738 710 020** | 9.600 |

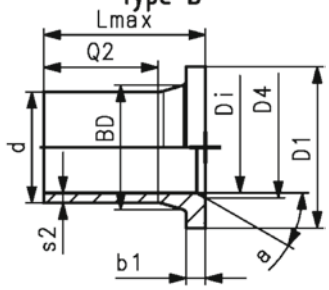
| d (mm) | D (mm) | d1 (mm) | D1 (mm) | d2 (mm) | D2 (mm) | d3 (mm) | d4 (mm) | d5 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | Standard | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 135 | 40 | 90 | 68 | | | 26 | 121 | 162 | 36 | 10 | 26 | Metric | 190 |
| 32 | 135 | 40 | 90 | 63 | 63 | | 26 | 121 | 162 | 36 | 10 | 26 | ANSI | 190 |
| 40 | 170 | 50 | 110 | 78 | 90 | | 32 | 146 | 165 | 40 | 11 | 28 | Metric | 197 |
| 40 | 170 | 50 | 110 | 73 | 73 | | 32 | 146 | 165 | 40 | 11 | 28 | ANSI | 197 |
| 50 | 180 | 61 | 110 | 88 | 90 | | 40 | 156 | 178 | 44 | 12 | 30 | Metric | 214 |
| 63 | 200 | 75 | 125 | 102 | 110 | | 51 | 171 | 230 | 48 | 14 | 32 | Metric, ANSI | 270 |
| 50 | 180 | 61 | 110 | 82 | 82 | | 40 | 156 | 178 | 44 | 12 | 30 | ANSI | 214 |
| 75 | 220 | 89 | 140 | 122 | 125 | 66 | 61 | 191 | 232 | 55 | 16 | 34 | Metric, ANSI | 279 |
| 90 | 240 | 105 | 160 | 138 | 140 | 78 | 73 | 206 | 245 | 62 | 17 | 35 | Metric | 299 |
| 90 | 240 | 105 | 160 | 133 | 133 | 78 | 73 | 206 | 245 | 62 | 17 | 35 | ANSI | 299 |
| 110 | 270 | 125 | 180 | 158 | 160 | 100 | 90 | 235 | 254 | 72 | 18 | 36 | Metric, ANSI | 320 |
| 140 | 300 | 155 | 225 | 188 | 200 | 127 | 127 | 256 | 299 | 84 | 25 | 38 | Metric, ANSI | 383 |
| 160 | 358 | 174 | 259 | 213 | 213 | 151 | 131 | 295 | 332 | 90 | 25 | 34 | Metric, ANSI | 412 |
| 225 | 423 | 233 | 325 | 268 | 268 | 209 | 184 | 354 | 383 | 110 | 32 | 37 | Metric, ANSI | 483 |



Type A




Type B




## ELGEF Plus Flange adaptor PE100
## d50-1000mm / SDR17 / Long version / Combined jointing face: flat and serrated

**Model:**

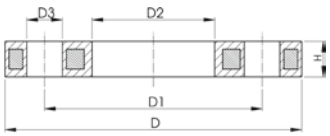
- For IR, butt and electrofusion welding according to DVS 2207
- Type A: without chamfer
- Type B: with chamfer
- Type 567/578 suitable for plastic butterfly valves up to DN300
- Type 565 for DN 300, the ecoFIT special flange adapter ** SDR17 is required
- Type 038/039/044/065 for metal butterfly valves up to DN250 suitable
- Type 038/039/044/065 for metal butterfly valves DN 300; the ecoFIT special flange adapter ** SDR17 is required
- For Butterfly Valves above DN 450, the ecoFIT adapters for BV SDR17 are required
- For third-party products, please check the Insertion depth of the disc dimension
- Profile seal d50-d1000: NBR, EPDM, FKM
- Flat gasket d50-d315: EPDM, FKM
- Pressure rating: 10 bar water / 5 bar gas
- Please refer to the Online Tool: Perfect Flange Connection - GF Piping Systems (gfps.com)

* Machined

| | d (mm) | Di (mm) | Type | DN (mm) | Code | Weight (kg) | Lmax (mm) | D1 (mm) | D4 (mm) | Q2 (mm) | s2 (mm) | b1 (mm) | BD (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50 | 44 | A | 40 | **753 800 085** | 0.107 | 90 | 88 | | 62 | 3.0 | 12 | 61 |
| | 63 | 55 | A | 50 | **753 800 086** | 0.168 | 106 | 102 | | 70 | 3.8 | 14 | 75 |
| | 75 | 66 | A | 65 | **753 800 087** | 0.260 | 130 | 122 | | 75 | 4.5 | 16 | 89 |
| | 90 | 79 | A | 80 | **753 800 088** | 0.367 | 140 | 138 | | 103 | 5.4 | 17 | 105 |
| | 110 | 96 | A | 100 | **753 800 089** | 0.571 | 160 | 158 | | 117 | 6.6 | 18 | 125 |
| | 125 | 110 | B | 100 | **753 800 090** | 0.684 | 170 | 158 | 114 | 125 | 7.4 | 25 | 132 |
| | 140 | 123 | B | 125 | **753 800 091** | 1.035 | 200 | 188 | 127 | 147 | 8.3 | 25 | 155 |
| | 160 | 141 | B | 150 | **753 800 092** | 1.342 | 200 | 212 | 151 | 147 | 9.5 | 25 | 175 |
| | 180 | 158 | A | 150 | **753 800 093** | 1.469 | 200 | 212 | | 170 | 10.7 | 30 | 180 |
| | 200 | 176 | B | 200 | **753 800 094** | 2.212 | 200 | 268 | 203 | 128 | 11.9 | 32 | 232 |
| | 225 | 198 | B | 200 | **753 800 095** | 2.456 | 200 | 268 | 210 | 138 | 13.4 | 32 | 235 |
| | 250 | 220 | B | 250 | **753 800 096** | 3.500 | 220 | 320 | 245 | 148 | 14.8 | 35 | 285 |
| | 280 | 246 | B | 250 | **753 800 097** | 3.780 | 230 | 320 | 265 | 154 | 16.6 | 35 | 291 |
| | 315 | 277 | B | 300 | **753 800 098** | 5.470 | 242 | 370 | 300 | 166 | 18.7 | 36 | 335 |
| | 355 | 310 | B | 350 | **753 800 299** | 7.100 | 260 | 430 | 346 | 170 | 21.1 | 33 | 373 |
| | 400 | 350 | B | 400 | **753 800 300** | 9.600 | 282 | 482 | 395 | 185 | 23.7 | 36 | 427 |
| | 450 | 400 | A | 500 | **753 800 301** | 16.400 | 316 | 585 | | 205 | 26.7 | 46 | 514 |
| | 500 | 400 | A | 500 | **753 800 302** | 18.500 | 337 | 585 | | 220 | 29.7 | 46 | 530 |
| | 560 | 493 | A | 600 | **753 800 303** | 26.940 | 370 | 685 | | 250 | 33.2 | 50 | 616 |
| | 630 | 555 | A | 600 | **753 800 304** | 44.260 | 390 | 685 | | 270 | 37.4 | 50 | 644 |
| * | 710 | 626 | A | 700 | **753 800 105** | 39.400 | 425 | 800 | | 325 | 42.1 | 50 | 737 |
| * | 800 | 705 | A | 800 | **753 800 106** | 50.800 | 465 | 905 | | 360 | 47.4 | 52 | 840 |
| * | 900 | 793 | A | 900 | **753 800 107** | 64.300 | 490 | 1005 | | 360 | 53.3 | 55 | 944 |
| * | 1000 | 881 | A | 1000 | **753 800 108** | 79.500 | 530 | 1110 | | 395 | 59.3 | 60 | 1047 |








## Flanges PP-Steel

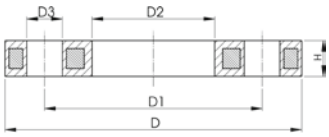
**Model:**

- Material: PP (30% glass-fibre reinforced) with steel ring
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D4024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes
* FM 1613 approved - 15 bar
** Profiled loose flange

| | d (mm) | DN (mm) | D (mm) | PN (bar) | Standard | Bolt / circle | Design | Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|
| | 20 | 15 | 95 | 16 | Metric | PN10 | Butt/Socket | **727 700 206** | 0.216 |
| | 20 | 15 | 95 | 16 | ASME | class 150 | Butt/Socket | **727 701 206** | 0.213 |
| | 25 | 20 | 105 | 16 | Metric | PN10 | Butt/Socket | **727 700 207** | 0.279 |
| | 25 | 20 | 105 | 16 | ASME | class 150 | Butt/Socket | **727 701 207** | 0.260 |
| | 32 | 25 | 115 | 16 | Metric | PN10 | Butt/Socket | **727 700 208** | 0.429 |
| | 32 | 25 | 115 | 16 | ASME | class 150 | Butt/Socket | **727 701 208** | 0.416 |
| | 40 | 32 | 140 | 16 | Metric | PN10 | Butt/Socket | **727 700 209** | 0.621 |
| | 40 | 32 | 140 | 16 | ASME | class 150 | Butt/Socket | **727 701 209** | 0.730 |
| | 50 | 40 | 150 | 16 | Metric | PN10 | Butt/Socket | **727 700 210** | 0.722 |
| | 50 | 40 | 150 | 16 | ASME | class 150 | Butt/Socket | **727 701 210** | 0.809 |
| | 63 | 50 | 165 | 16 | Metric | PN10 | Butt/Socket | **727 700 211** | 0.900 |
| | 63 | 50 | 165 | 16 | ASME | class 150 | Butt/Socket | **727 701 211** | 0.866 |
| | 75 | 65 | 185 | 16 | Metric | PN10 | Butt/Socket | **727 700 212** | 1.110 |
| | 75 | 65 | 185 | 16 | ASME | class 150 | Butt/Socket | **727 701 212** | 1.117 |
| * | 90 | 80 | 200 | 16 | Metric | PN10 | Butt | **724 700 313** | 1.390 |
| | 90 | 80 | 200 | 16 | Metric | PN10 | Socket | **727 700 213** | 1.369 |
| | 90 | 80 | 200 | 16 | Metric | PN10 | Butt | **727 700 313** | 1.390 |
| | 90 | 80 | 200 | 16 | ASME | class 150 | Socket | **727 701 213** | 1.492 |
| | 90 | 80 | 200 | 16 | ASME | class 150 | Butt | **727 701 313** | 1.499 |
| * | 110 | 100 | 223 | 16 | Metric | PN10 | Butt | **724 700 314** | 1.407 |
| | 110 | 100 | 220 | 16 | Metric | PN10 | Socket | **727 700 214** | 1.522 |
| | 110 | 100 | 220 | 16 | Metric | PN10 | Butt | **727 700 314** | 1.407 |
| | 110 | 100 | 229 | 16 | ASME | class 150 | Socket | **727 701 214** | 1.695 |
| | 110 | 100 | 229 | 16 | ASME | class 150 | Butt | **727 701 314** | 1.739 |
| * | 125 | 100 | 223 | 16 | Metric | PN10 | Butt | **724 700 315** | 1.408 |
| | 125 | 100 | 220 | 16 | Metric | PN10 | Butt | **727 700 315** | 1.408 |
| | 125 | 125 | 250 | 16 | Metric | PN10 | Socket | **727 700 815** | 2.475 |
| * | 140 | 125 | 250 | 16 | Metric | PN10 | Butt | **724 700 316** | 2.318 |
| | 140 | 125 | 250 | 16 | Metric | PN10 | Butt | **727 700 716** | 2.318 |
| | 140 | 125 | 250 | 16 | Metric | PN10 | Socket | **727 700 816** | 2.033 |
| * | 160 | 150 | 285 | 16 | Metric | PN10 | Butt | **724 700 317** | 3.491 |
| | 160 | 150 | 285 | 16 | Metric/ASME | PN10/ class 150 | Butt | **727 700 717** | 3.491 |
| | 160 | 150 | 285 | 16 | Metric/ASME | PN10/ class 150 | Socket | **727 700 817** | 3.167 |
| * | 180 | 150 | 285 | 16 | Metric | PN10 | Butt | **724 700 318** | 3.108 |
| | 180 | 150 | 285 | 16 | Metric/ASME | PN10/ Class 150 | Butt | **727 700 718** | 3.108 |
| *, ** | 200 | 200 | 344 | 16 | Metric | PN16 | Butt | **724 700 319** | 3.549 |
| | 200 | 200 | 340 | 16 | Metric/ASME | PN10/ class 150 | Butt | **727 700 719** | 5.600 |
| | 200 | 200 | 340 | 16 | Metric/ASME | PN10/ class 150 | Socket | **727 700 819** | 6.143 |
| *, ** | 225 | 200 | 344 | 16 | Metric | PN16 | Butt | **724 700 320** | 3.380 |
| | 225 | 200 | 340 | 16 | Metric/ASME | PN10/ class 150 | Butt | **727 700 720** | 5.533 |
| | 225 | 200 | 340 | 16 | Metric/ASME | PN10/ class 150 | Socket | **727 700 820** | 4.448 |
| *, ** | 250 | 250 | 410 | 16 | Metric | PN16 | Butt | **724 700 321** | 6.390 |
| | 250 | 225 | 395 | 16 | Metric | PN10 | Socket | **727 700 031** | 8.340 |
| | 250 | 250 | 406 | 10 | ASME | class 150 | Butt | **727 701 321** | 6.000 |
| | 250 | 250 | 395 | 16 | Metric | PN10 | Butt | **727 700 721** | 6.632 |
| | 250 | 250 | 395 | 16 | Metric | PN10 | Socket | **727 700 821** | 7.179 |
| *, ** | 280 | 250 | 410 | 16 | Metric | PN16 | Butt | **724 700 322** | 6.310 |
| | 280 | 250 | 395 | 16 | Metric | PN10 | Butt | **727 700 722** | 6.573 |

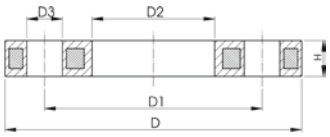
table continued on the next page




| | d (mm) | DN (mm) | D (mm) | PN (bar) | Standard | Bolt / circle | Design | Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|
| | 280 | 250 | 395 | 16 | Metric | PN10 | Socket | **727 700 822** | 5.547 |
| *, ** | 315 | 300 | 455 | 16 | Metric | PN16 | Butt | **724 700 323** | 9.740 |
| | 315 | 300 | 445 | 16 | Metric | PN10 | Butt | **727 700 723** | 7.903 |
| | 315 | 300 | 445 | 16 | Metric | PN10 | Socket | **727 700 823** | 6.980 |
| | 315 | 300 | 483 | 10 | ASME | class 150 | Butt | **727 701 322** | 11.800 |
| *, ** | 355 | 350 | 521 | 16 | Metric | PN16 | Butt | **724 700 324** | 15.203 |
| | 355 | 350 | 515 | 16 | Metric | PN10 | Butt | **727 700 724** | 14.587 |
| | 355 | 350 | 515 | 16 | Metric | PN10 | Socket | **727 700 824** | 12.465 |
| | 355 | 350 | 540 | 10 | ASME | class 150 | Butt | **727 701 323** | 17.900 |
| *, ** | 400 | 400 | 582 | 16 | Metric | PN16 | Butt | **724 700 325** | 20.600 |
| | 400 | 400 | 574 | 16 | Metric | PN10 | Butt | **727 700 725** | 20.034 |
| | 400 | 400 | 574 | 16 | Metric | PN10 | Socket | **727 700 825** | 17.607 |
| | 400 | 400 | 597 | 10 | ASME | class 150 | Butt | **727 701 324** | 24.500 |
| *, ** | 450 | 500 | 685 | 10 | Metric | PN10 | Butt | **724 700 426** | 25.600 |
| *, ** | 500 | 500 | 685 | 10 | Metric | PN10 | Butt | **724 700 427** | 21.061 |
| ** | 560 | 600 | 796 | 10 | Metric | PN10 | Butt | **724 700 428** | 35.000 |
| ** | 630 | 600 | 800 | 10 | Metric | PN10 | Butt | **724 700 429** | 28.500 |
| ** | 710 | 700 | 912 | 6 | Metric | PN10 | Butt | **724 700 430** | 25.500 |
| ** | 800 | 800 | 1026 | 6 | Metric | PN10 | Butt | **724 700 431** | 39.300 |
| ** | 900 | 900 | 1129 | 6 | Metric | PN10 | Butt | **724 700 432** | 48.500 |
| | 450 | 500 | 712 | 10 | ASME | class 150 | Butt | **727 701 325** | 33.600 |

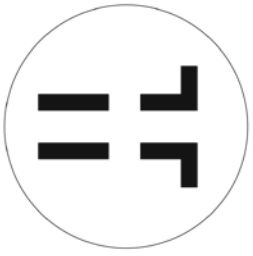
| | d (mm) | D1 (mm) | D2 (mm) | D3 (mm) | H max. (mm) | AL | SC |
|---|---|---|---|---|---|---|---|
| | 20 | 65 | 28 | 14 | 12 | 4 | M12 |
| | 20 | 60 | 28 | 16 | 12 | 4 | M12 |
| | 25 | 75 | 34 | 14 | 12 | 4 | M12 |
| | 25 | 70 | 34 | 16 | 12 | 4 | M12 |
| | 32 | 85 | 42 | 14 | 16 | 4 | M12 |
| | 32 | 79 | 42 | 16 | 16 | 4 | M12 |
| | 40 | 100 | 51 | 18 | 16 | 4 | M16 |
| | 40 | 89 | 51 | 16 | 16 | 4 | M16 |
| | 50 | 110 | 62 | 18 | 20 | 4 | M16 |
| | 50 | 98 | 62 | 16 | 18 | 4 | M16 |
| | 63 | 125 | 78 | 18 | 20 | 4 | M16 |
| | 63 | 121 | 78 | 19 | 18 | 4 | M16 |
| | 75 | 145 | 92 | 18 | 20 | 4 | M16 |
| | 75 | 140 | 92 | 19 | 18 | 4 | M16 |
| * | 90 | 160 | 108 | 18 | 20 | 8 | M16 |
| | 90 | 160 | 110 | 18 | 20 | 8 | M16 |
| | 90 | 160 | 108 | 18 | 20 | 8 | M16 |
| | 90 | 152 | 110 | 19 | 20 | 4 | M16 |
| | 90 | 152 | 108 | 19 | 20 | 4 | M16 |
| * | 110 | 180 | 128 | 18 | 20 | 8 | M16 |
| | 110 | 180 | 133 | 18 | 20 | 8 | M16 |
| | 110 | 180 | 128 | 18 | 20 | 8 | M16 |
| | 110 | 190 | 133 | 19 | 20 | 8 | M16 |
| | 110 | 190 | 128 | 19 | 20 | 8 | M16 |
| * | 125 | 180 | 135 | 18 | 20 | 8 | M16 |
| | 125 | 180 | 135 | 18 | 20 | 8 | M16 |
| | 125 | 210 | 150 | 18 | 26 | 8 | M16 |
| * | 140 | 210 | 158 | 18 | 24 | 8 | M16 |
| | 140 | 210 | 158 | 18 | 24 | 8 | M16 |
| | 140 | 210 | 167 | 18 | 26 | 8 | M16 |
| * | 160 | 240 | 178 | 22 | 28 | 8 | M20 |
| | 160 | 240 | 178 | 22 | 24 | 8 | M20 |
| | 160 | 240 | 190 | 22 | 26 | 8 | M20 |
| * | 180 | 240 | 188 | 22 | 28 | 8 | M20 |
| | 180 | 240 | 188 | 22 | 24 | 8 | M20 |
| *, ** | 200 | 295 | 235 | 22 | 31 | 12 | M20 |
| | 200 | 295 | 235 | 22 | 27 | 8 | M20 |
| | 200 | 295 | 226 | 22 | 29 | 8 | M20 |
| *, ** | 225 | 295 | 238 | 22 | 31 | 12 | M20 |

table continued on the next page




| | d (mm) | D1 (mm) | D2 (mm) | D3 (mm) | H max. (mm) | AL | SC |
|---|---|---|---|---|---|---|---|
| | 225 | 297 | 238 | 22 | 27 | 8 | M20 |
| | 225 | 297 | 250 | 22 | 29 | 8 | M20 |
| *, ** | 250 | 355 | 288 | 26 | 35 | 12 | M24 |
| | 250 | 325 | 277 | 22 | 32 | 8 | M20 |
| | 250 | 362 | 293 | 25 | 30 | 12 | M24 |
| | 250 | 350 | 288 | 22 | 30 | 12 | M20 |
| | 250 | 350 | 277 | 22 | 32 | 12 | M20 |
| *, ** | 280 | 355 | 294 | 26 | 36 | 12 | M24 |
| | 280 | 350 | 294 | 22 | 30 | 12 | M20 |
| | 280 | 350 | 310 | 22 | 32 | 12 | M20 |
| *, ** | 315 | 410 | 338 | 26 | 43 | 12 | M24 |
| | 315 | 400 | 338 | 22 | 34 | 12 | M20 |
| | 315 | 400 | 348 | 22 | 36 | 12 | M20 |
| | 315 | 432 | 338 | 25 | 34 | 12 | M24 |
| *, ** | 355 | 470 | 376 | 26 | 55 | 16 | M24 |
| | 355 | 460 | 376 | 23 | 40 | 16 | M20 |
| | 355 | 460 | 388 | 23 | 42 | 16 | M20 |
| | 355 | 476 | 376 | 29 | 42 | 12 | M27 |
| *, ** | 400 | 525 | 430 | 30 | 56 | 16 | M27 |
| | 400 | 515 | 430 | 26 | 40 | 16 | M24 |
| | 400 | 515 | 442 | 26 | 42 | 16 | M24 |
| | 400 | 539 | 429 | 29 | 44 | 16 | M27 |
| *, ** | 450 | 620 | 517 | 26 | 56 | 20 | M24 |
| *, ** | 500 | 620 | 533 | 26 | 56 | 20 | M24 |
| ** | 560 | 725 | 618 | 30 | 68 | 20 | M27 |
| ** | 630 | 725 | 645 | 30 | 68 | 20 | M27 |
| ** | 710 | 840 | 740 | 30 | 49 | 24 | M27 |
| ** | 800 | 950 | 843 | 33 | 58 | 24 | M30 |
| ** | 900 | 1050 | 947 | 33 | 62 | 28 | M30 |
| | 450 | 635 | 540 | 32 | 53 | 20 | M30 |





## Profiled Backing Flanges Metal, Epoxy coated

**Model:**

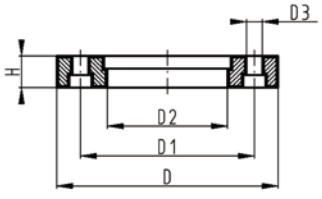
- Ductile iron (GGG 40), stoved epoxy (black, DIN30677)
- Metric: ISO 7005, EN 1092, ISO 9624

**Note:**

Flat side = bolt / washer side
Profiled side = flange adaptor side (aligned with collar)

AL: number of holes
*Galvanized steel S235-JR, suitable for underground laying

| | d (mm) | DN (mm) | PN (bar) | Standard | Bolt / circle | Design | Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| | 125 | 125 | 16 | Metric | PN10 | Butt | **701 474 386** | 6.000 |
| | 450 | 500 | 10 | Metric | PN16 | Butt | **724 705 326** | 50.500 |
| | 500 | 500 | 10 | Metric | PN16 | Butt | **724 705 327** | 50.500 |
| | 560 | 600 | 10 | Metric | PN16 | Butt | **724 705 328** | 50.500 |
| | 630 | 600 | 10 | Metric | PN16 | Butt | **724 705 329** | 50.500 |
| | 710 | 700 | 6 | Metric | PN10 | Butt | **724 705 130** | 36.400 |
| | 800 | 800 | 6 | Metric | PN10 | Butt | **724 705 131** | 50.500 |
| | 900 | 900 | 6 | Metric | PN10 | Butt | **724 705 132** | 55.800 |
| | 1000 | 1000 | 6 | Metric | PN10 | Butt | **724 705 133** | 71.100 |
| | 1200 | 1200 | 6 | Metric | PN10 | Butt | **724 705 134** | 101.000 |

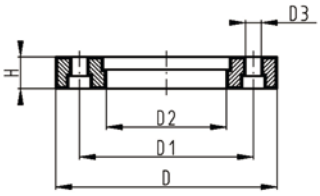



| | d (mm) | DN (mm) | D (mm) | D1 (mm) | D2 (mm) | D3 (mm) | H (mm) | AL | SC |
|---|---|---|---|---|---|---|---|---|---|
| | 125 | 125 | 250 | 210 | 135 | 18 | 25 | 8 | M16 |
| | 450 | 500 | 715 | 650 | 517 | 33 | 46 | 20 | M30 |
| | 500 | 500 | 715 | 650 | 533 | 33 | 46 | 20 | M30 |
| | 560 | 600 | 840 | 770 | 618 | 36 | 55 | 20 | M33 |

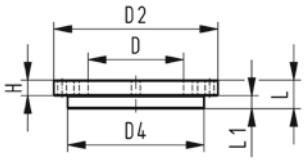
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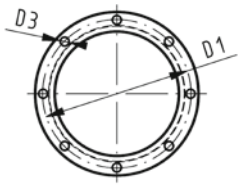


| d (mm) | DN (mm) | D (mm) | D1 (mm) | D2 (mm) | D3 (mm) | H (mm) | AL | SC |
|---|---|---|---|---|---|---|---|---|
| 630 | 600 | 840 | 770 | 645 | 36 | 55 | 20 | M33 |
| 710 | 700 | 900 | 840 | 740 | 30 | 45 | 24 | M27 |
| 800 | 800 | 1015 | 950 | 843 | 33 | 53 | 24 | M30 |
| 900 | 900 | 1115 | 1050 | 947 | 33 | 56 | 28 | M30 |
| 1000 | 1000 | 1230 | 1160 | 1050 | 36 | 62 | 28 | M33 |
| 1200 | 1200 | 1455 | 1380 | 1260 | 39 | 68 | 32 | M36 |






## Blanking flange set PE100
## Combined jointing face flat and serrated metric

**Model:**

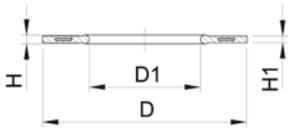
- d63 - d315: backing flange PP-V with end blank PE
- d355 - d630: backing flange PP/Steel with end blank PE
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- **Bolt circle PN 10**

AL: number of holes
L: length of the End Blank

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | D (mm) | D1 (mm) | D2 (mm) | D3 (mm) | D4 (mm) | L (mm) | L1 (mm) | H (mm) | AL | SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 16 | **753 700 611** | 0.560 | 75 | 125 | 165 | 18 | 102 | 30 | 14 | 24 | 4 | M16 |
| 75 | 65 | 16 | **753 700 612** | 0.910 | 89 | 145 | 185 | 18 | 122 | 30 | 16 | 26 | 4 | M16 |
| 90 | 80 | 16 | **753 700 613** | 0.921 | 105 | 160 | 200 | 18 | 138 | 30 | 17 | 27 | 8 | M16 |
| 110 | 100 | 16 | **753 700 614** | 1.158 | 125 | 180 | 220 | 18 | 158 | 30 | 18 | 28 | 8 | M16 |
| 125 | 100 | 16 | **753 700 615** | 1.678 | 132 | 180 | 220 | 18 | 158 | 35 | 25 | 28 | 8 | M16 |
| 140 | 125 | 16 | **753 700 616** | 1.913 | 155 | 210 | 250 | 18 | 188 | 40 | 25 | 30 | 8 | M16 |
| 160 | 150 | 16 | **753 700 617** | 2.373 | 175 | 240 | 285 | 22 | 212 | 40 | 25 | 32 | 8 | M20 |
| 180 | 150 | 16 | **753 700 618** | 2.430 | 180 | 240 | 285 | 22 | 212 | 45 | 30 | 32 | 8 | M20 |
| 200 | 200 | 16 | **753 700 619** | 3.495 | 232 | 295 | 340 | 22 | 268 | 50 | 32 | 34 | 8 | M20 |
| 225 | 200 | 16 | **753 700 620** | 3.744 | 235 | 295 | 340 | 22 | 268 | 50 | 32 | 34 | 8 | M20 |
| 250 | 250 | 16 | **753 700 621** | 6.051 | 285 | 350 | 395 | 22 | 320 | 55 | 35 | 38 | 12 | M20 |
| 280 | 250 | 16 | **753 700 622** | 6.305 | 291 | 350 | 395 | 22 | 320 | 60 | 35 | 38 | 12 | M20 |
| 315 | 300 | 16 | **753 700 623** | 8.894 | 335 | 400 | 445 | 22 | 370 | 65 | 35 | 42 | 12 | M20 |
| 355 | 350 | 16 | **753 700 624** | 23.198 | 373 | 460 | 515 | 22 | 430 | 70 | 40 | 40 | 16 | M20 |
| 400 | 400 | 16 | **753 700 625** | 30.766 | 427 | 515 | 574 | 26 | 482 | 75 | 46 | 40 | 16 | M24 |
| 450 | 500 | 10 | **753 700 626** | 44.271 | 510 | 620 | 684 | 26 | 585 | 80 | 60 | 49 | 20 | M24 |
| 500 | 500 | 10 | **753 700 627** | 47.165 | 530 | 620 | 684 | 26 | 585 | 90 | 60 | 49 | 20 | M24 |
| 560 | 600 | 10 | **753 700 628** | 67.147 | 615 | 725 | 796 | 30 | 685 | 100 | 60 | 58 | 20 | M27 |
| 630 | 600 | 10 | **753 700 629** | 68.574 | 642 | 725 | 796 | 30 | 685 | 110 | 60 | 68 | 20 | M27 |








## Profile Flange Gasket EPDM/FKM metric

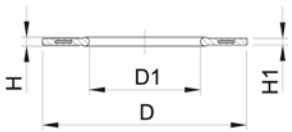
**Model:**

- For all metric GF Flange Adaptors
- Hardness: 70° Shore EPDM, 75° Shore FKM
- EPDM: approved acc. to DVGW Water W 270, KTW recommendation
- Centering on the inner diameter of the screw crown
- material steel insert: carbon steel
- Rubber-steel body combined with rubber profile cord ring up to d630
- Rubber-steel body ideal for big dimensions (d710 - d1000)

di FA are the suitable inner diameters of flanges adaptors

| d (mm) | DN (mm) | PN (bar) | EPDM Code | FKM Code | Weight (kg) | D (mm) | D1 (mm) | di FA (mm) | H (mm) | H1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 16 | **748 440 705** | **749 440 705** | 0.012 | 46 | 16 | 6 - 16 | 4 | 3 |
| 20 | 15 | 16 | **748 440 706** | **749 440 706** | 0.013 | 51 | 20 | 10 - 20 | 4 | 3 |
| 25 | 20 | 16 | **748 440 707** | **749 440 707** | 0.014 | 61 | 22 | 12 - 22 | 4 | 3 |
| 32 | 25 | 16 | **748 440 708** | **749 440 708** | 0.019 | 71 | 28 | 18 - 28 | 4 | 3 |
| 40 | 32 | 16 | **748 440 709** | **749 440 709** | 0.026 | 82 | 40 | 30 - 40 | 4 | 3 |
| 50 | 40 | 16 | **748 440 710** | **749 440 710** | 0.039 | 92 | 46 | 36 - 46 | 4 | 3 |
| 63 | 50 | 16 | **748 440 711** | **749 440 711** | 0.050 | 107 | 58 | 48 - 58 | 5 | 4 |
| 75 | 65 | 16 | **748 440 712** | **749 440 712** | 0.082 | 127 | 69 | 59 - 69 | 5 | 4 |
| 90 | 80 | 16 | **748 440 713** | **749 440 713** | 0.083 | 142 | 84 | 73 - 84 | 5 | 4 |
| 110 | 100 | 16 | **748 440 714** | **749 440 714** | 0.127 | 162 | 104 | 94 - 104 | 6 | 5 |
| 125 | 100 | 16 | **748 440 715** | **749 440 715** | 0.105 | 162 | 123 | 113 - 123 | 6 | 5 |
| 140 | 125 | 16 | **748 440 716** | **749 440 716** | 0.173 | 192 | 137 | 127 - 137 | 6 | 5 |
| 160 - 180 | 150 | 16 | **748 440 717** | **749 440 717** | 0.207 | 218 | 160 | 150 - 160 | 8 | 6 |
| 200 | 200 | 16 | **748 440 719** | **749 440 719** | 0.263 | 273 | 203 | 192 - 203 | 8 | 6 |
| 225 | 200 | 16 | **748 440 720** | **749 440 720** | 0.255 | 273 | 220 | 207 - 220 | 8 | 6 |
| 250 | 250 | 16 | **748 440 721** | **749 440 721** | 0.462 | 328 | 252 | 238 - 252 | 8 | 6 |
| 280 | 250 | 16 | **748 440 722** | **749 440 722** | 0.323 | 328 | 274 | 264 - 274 | 8 | 6 |
| 315 | 300 | 16 | **748 440 723** | **749 440 723** | 0.549 | 378 | 306 | 296 - 306 | 8 | 6 |
| 355 | 350 | 16 | **748 440 724** | **749 440 724** | 0.870 | 438 | 355 | 340 - 355 | 10 | 7 |
| 400 | 400 | 16 | **748 440 725** | **749 440 725** | 1.088 | 489 | 400 | 385 - 400 | 10 | 7 |
| 450 | 500 | 10 | **748 440 726** | **749 440 726** | 0.718 | 594 | 403 | 393 - 403 | 10 | 7 |
| 500 | 500 | 10 | **748 440 727** | **749 440 727** | 0.718 | 594 | 447 | 437 - 447 | 10 | 7 |
| 560 | 600 | 10 | **748 440 728** | **749 440 728** | 0.923 | 695 | 494 | 484 - 494 | 10 | 7 |
| 630 | 600 | 10 | **748 440 729** | **749 440 729** | 0.923 | 695 | 555 | 545 - 555 | 10 | 7 |
| 710 | 700 | 6 | **748 440 730** | | 0.890 | 810 | 712 | 562 - 712 | 6 | 3 |
| 800 | 800 | 6 | **748 440 731** | | 1.340 | 917 | 813 | 663 - 813 | 6 | 3 |
| 900 | 900 | 6 | **748 440 732** | | 1.170 | 1017 | 915 | 765 - 915 | 6 | 3 |
| 1000 | 1000 | 6 | **748 440 733** | | 1.360 | 1124 | 1016 | 866 - 1016 | 6 | 3 |





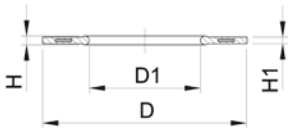

## Profile Flange Gasket EPDM/FKM ANSI/ASME

**Model:**

- Suitable for flanges adaptors PP/PE PVDF
- Hardness: 70° Shore EPDM, 75° Shore FKM
- Centered by the flange bolts
- Dimension D is in accordance with the inner diameter of the bolt circle

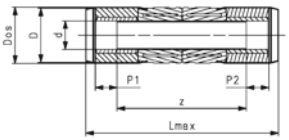
| d (mm) | DN (mm) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) | Inch (inch) | D (mm) | D1 (mm) | H (mm) | H1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 20 | **748 440 502** | 0.010 | **749 440 502** | 0.011 | 3/4 | 54 | 27 | 4 | 3 |
| 32 | 25 | **748 440 503** | 0.011 | **749 440 503** | 0.023 | 1 | 64 | 33 | 4 | 3 |
| 40 | 32 | **748 440 504** | 0.017 | **749 440 504** | 0.024 | 11/4 | 73 | 42 | 4 | 3 |
| 50 | 40 | **748 440 505** | 0.030 | **749 440 505** | 0.030 | 11/2 | 83 | 48 | 4 | 3 |
| 63 | 50 | **748 440 506** | 0.029 | **749 440 506** | 0.042 | 2 | 102 | 60 | 5 | 4 |
| 75 | 65 | **748 440 507** | 0.046 | **749 440 507** | 0.068 | 21/2 | 121 | 73 | 5 | 4 |
| 90 | 80 | **748 440 508** | 0.053 | **749 440 508** | 0.083 | 3 | 133 | 89 | 5 | 4 |
| 110 | 100 | **748 440 509** | 0.088 | **749 440 509** | 0.139 | 4 | 171 | 115 | 6 | 5 |
| 160 - 180 | 150 | **748 440 512** | 0.127 | **749 440 512** | 0.240 | 6 | 222 | 160 | 8 | 6 |
| 225 | 200 | **748 440 515** | 0.195 | **749 440 515** | 0.316 | 8 | 279 | 220 | 8 | 6 |

table continued on the next page




| d (mm) | DN (mm) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) | Inch (inch) | D (mm) | D1 (mm) | H (mm) | H1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 250 | 250 | **748 440 517** | 0.243 | **749 440 517** | 0.373 | 10 | 337 | 273 | 8 | 6 |
| 315 | 300 | **748 440 518** | 0.398 | **749 440 518** | 0.750 | 12 | 406 | 325 | 8 | 6 |
| 355 | 350 | **748 440 519** | 0.800 | **749 440 519** | 0.800 | 14 | 448 | 356 | 10 | 7 |
| 400 | 400 | **748 440 520** | 0.900 | **749 440 520** | 0.900 | 16 | 512 | 406 | 10 | 7 |
| 450 | 450 | **748 440 521** | 1.000 | **749 440 521** | 1.000 | 18 | 547 | 457 | 10 | 7 |
| 500 | 500 | **748 440 522** | 1.000 | **749 440 522** | 1.000 | 20 | 604 | 508 | 10 | 7 |





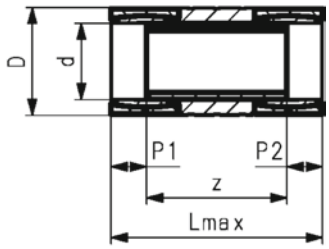

## COOL-FIT 4.0 Sliding coupler kit

**Model:**

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- Integrated sealing lip, for a moisture-proof and vapour tight sealing
- Including two couplers, pipe section and four insulation half shells

| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | Dos (mm) | Lmax (mm) | P1 (mm) | P2 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 90 | 25 | 11 | 16 | **738 913 508** | 0.499 | 97 | 390 | 36.0 | 36 | 268 |
| 40 | 110 | 32 | 11 | 16 | **738 913 509** | 0.475 | 117 | 414 | 40.0 | 40 | 284 |
| 50 | 110 | 40 | 11 | 16 | **738 913 510** | 0.630 | 117 | 434 | 44.0 | 44 | 296 |
| 63 | 125 | 50 | 11 | 16 | **738 913 511** | 0.937 | 132 | 464 | 48.0 | 48 | 318 |
| 75 | 140 | 65 | 11 | 16 | **738 913 512** | 1.693 | 147 | 504 | 55.0 | 55 | 344 |
| 90 | 160 | 80 | 11 | 16 | **738 913 513** | 2.527 | 168 | 544 | 62.0 | 62 | 370 |
| 110 | 180 | 100 | 11 | 16 | **738 913 514** | 3.298 | 188 | 614 | 72.0 | 72 | 420 |
| 140 | 225 | 125 | 11 | 16 | **738 913 516** | 5.053 | 234 | 684 | 84.0 | 84 | 466 |
| 160 | 250 | 150 | 11 | 16 | **738 913 517** | 7.225 | 258 | 714 | 90.0 | 90 | 484 |
| 225 | 315 | 200 | 11 | 16 | **738 913 520** | 16.276 | 324 | 853 | 110.0 | 110 | 583 |






## COOL-FIT 4.0 Sliding coupler kit

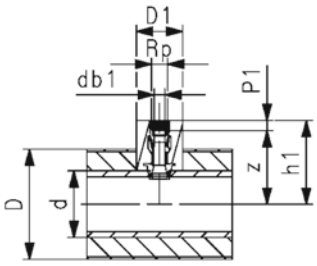
**Model:**

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- Including two couplers, pipe section and insulation half shells

| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | Lmax (mm) | P1 (mm) | P2 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 250 | 355 | 250 | 11 | 16 | **738 913 521** | 22.948 | 764 | 123.5 | 123.5 | 517 |
| 280 | 400 | 250 | 11 | 16 | **738 913 522** | 32.633 | 773 | 126.0 | 126.0 | 521 |
| 315 | 450 | 300 | 11 | 16 | **738 913 523** | 39.518 | 824 | 133.5 | 133.5 | 557 |

# COOL-FIT 4.0 Weld-in Port






## COOL-FIT 4.0 Weld-in port PE/Stainless steel With female thread Rp

**Model:**

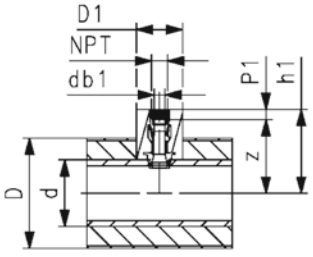
- Material: PE100, Stainless steel V4A/ 316L
- With Weld-in port cone (PE100) and female thread Rp (stainless steel) for the installation of sensors, instruments, venting and draining
- Gasket: O-ring EPDM
- Including insulation made from EPDM foam

**Note:**

For pipes COOL-FIT 4.0 and COOL-FIT 4.0F of the dimensions d63-d225

| Size (inch) | Thread | PN (bar) | Code | Weight (kg) | d (mm) | db1 (mm) | D1 (mm) | h1 (mm) | P1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| ½ | Rp | 16 | **738 113 206** | 0.139 | d63 - d225 | 11.8 | 78 | 85+d/2 | 15 | 70 + d/2 |
| ¾ | Rp | 16 | **738 113 207** | 0.179 | d63 - d225 | 17.4 | 78 | 85+d/2 | 16 | 69 + d/2 |
| 1 | Rp | 16 | **738 113 208** | 0.240 | d63 - d225 | 23.1 | 78 | 86+d/2 | 19 | 67 + d/2 |






## COOL-FIT 4.0 Weld-in port PE/Stainless steel With female thread NPT

**Model:**

- Material: PE100, Stainless steel V4A/ 316L
- With Weld-in port cone (PE100) and female thread NPT (stainless steel) for the installation of sensors, instruments, venting and draining
- Gasket: O-ring EPDM
- Including insulation made from EPDM foam

**Note:**

For pipes COOL-FIT 4.0 and COOL-FIT 4.0F of the dimensions d63-d225

| Size (inch) | Thread | PN (bar) | Code | Weight (kg) | d (mm) | db1 (mm) | D1 (mm) | h1 (mm) | P1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| ½ | NPT | 16 | **738 113 306** | 0.148 | d63 - d225 | 11.8 | 78 | 85+d/2 | 15 | 70 + d/2 |
| ¾ | NPT | 16 | **738 113 307** | 0.191 | d63 - d225 | 17.4 | 78 | 85+d/2 | 16 | 69 + d/2 |
| 1 | NPT | 16 | **738 113 308** | 0.248 | d63 - d225 | 23.1 | 78 | 86+d/2 | 19 | 67 + d/2 |



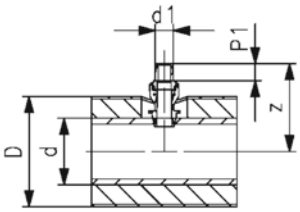
## COOL-FIT 2.0/4.0 Weld-in port PE/iFIT

**Model:**

- Material: PE100, brass
- With Weld-in port cone (PE100) and iFIT module (brass) for the transition to COOL-FIT Push System or iFIT
- Gasket: O-ring EPDM

**Note:**

For pipes COOL-FIT 2.0, COOL-FIT 2.0F, COOL-FIT 4.0 and COOL-FIT 4.0F of the dimension d63-d225




| d1 (mm) | PN (bar) | Code | Weight (kg) | d (mm) | P1 (mm) | z (mm) |
|---|---|---|---|---|---|---|
| 25/32 | 16 | **738 110 407** | 0.228 | d63 - d225 | 28 | 92 + d/2 |



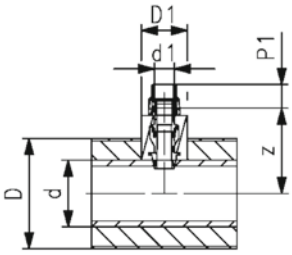
## COOL-FIT 4.0 Weld-in port PE/Sanipex MT

**Model:**

- Material: PE100, brass with low lead content, dezincification resistant
- With Weld-in port cone (PE100) and Sanipex MT adaptor (brass) for the transition to Sanipex MT
- Gasket: O-ring EPDM
- Including insulation made from EPDM foam

**Note:**

For pipes COOL-FIT 4.0 and COOL-FIT 4.0F of the dimensions d63-d225




| d1 (mm) | PN (bar) | Code | Weight (kg) | d (mm) | db1 (mm) | D1 (mm) | P1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| 32 | 16 | **738 113 508** | 0.245 | d63 - d225 | 11.8 | 78 | 39 | 49 + d/2 |



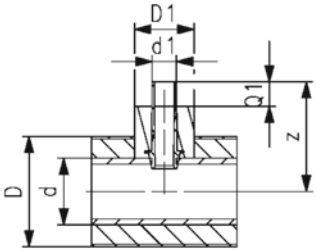
## COOL-FIT 4.0 Weld-in port PE spigot

**Model:**

- Material: PE100
- With Weld-in port cone (PE100) and metric spigot SDR11 for transitions to COOL-FIT 4.0 fittings type A or PE Fittings
- Including insulation made from EPDM foam

**Note:**

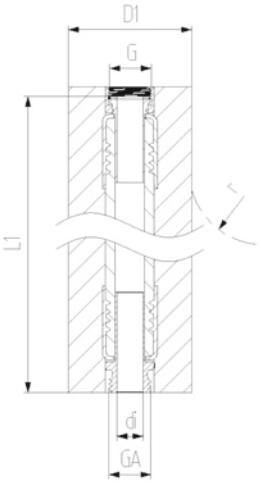
For pipes COOL-FIT 4.0 and COOL-FIT 4.0F




| d1 (mm) | SDR | PN (bar) | Code | Weight (kg) | d (mm) | D1 (mm) | Q1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| 32 | 11 | 16 | **738 113 608** | 0.075 | d63 - d225 | 78 | 36 | 125 + d/2 |
| 40 | 11 | 16 | **738 113 609** | 0.107 | d75 - d225 | 85 | 40 | 131 + d/2 |
| 50 | 11 | 16 | **738 113 610** | 0.163 | d90 - d225 | 110 | 44 | 140 + d/2 |

# COOL-FIT 4.0 Flexible Hoses






## COOL-FIT 4.0 Flex hose

**Model:**

- EPDM flexible hose with stainless steel protection
- Adaptors stainless steel 1.4404 / 316L
- Pre-Insulation made from EPDM foam with outer jacket impact resistant and tearproof
- With loose union nut G on one end and male thread GA on the other

| d (mm) | D1 (mm) | Thread | Size (inch) | DN (mm) | PN (bar) | Code | L1 (mm) | di (mm) | r (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 20 | 72 | G/GA | ½ | 15 | 10 | **738 923 206** | 1000 | 15 | 119 |
| 25 | 82 | G/GA | ¾ | 20 | 10 | **738 923 207** | 1000 | 19 | 156 |
| 32 | 92 | G/GA | 1 | 25 | 10 | **738 923 208** | 1000 | 25 | 192 |
| 40 | 95 | G/GA | 1 ¼ | 32 | 8 | **738 923 209** | 1500 | 32 | 252 |
| 50 | 110 | G/GA | 1 ½ | 40 | 6 | **738 923 210** | 2000 | 38 | 312 |
| 63 | 123 | G/GA | 2 | 50 | 6 | **738 923 211** | 2000 | 52 | 372 |

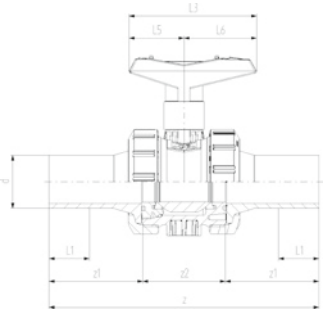
# COOL-FIT 4.0 Valves



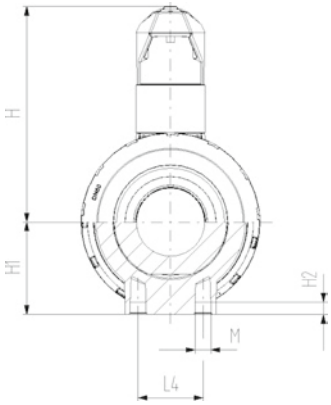
## COOL-FIT 4.0 Ball valve type 546 Pro hand-operated

**Model:**

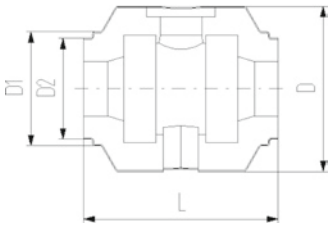
- Material: ABS with spigot PE100 SDR11, metric
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Including insulation half shells
- Separate Fittings type A needed for joining



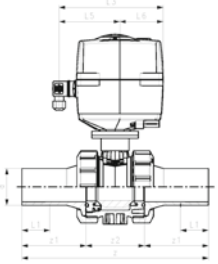

| d (mm) | DN (mm) | PN | kv-value (Δp=1 bar) (l/min) | SDR | EPDM Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 32 | 25 | 10 | 700 | 11 | **138 546 108** | 0.542 |
| 40 | 32 | 10 | 1000 | 11 | **138 546 109** | 0.887 |
| 50 | 40 | 10 | 1600 | 11 | **138 546 110** | 1.165 |
| 63 | 50 | 10 | 3100 | 11 | **138 546 111** | 2.100 |
| 75 | 65 | 10 | 5000 | 11 | **138 546 112** | 5.125 |
| 90 | 80 | 10 | 7000 | 11 | **138 546 113** | 7.173 |

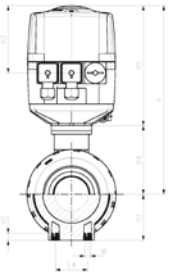


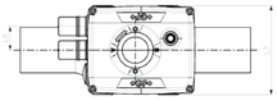

| d (mm) | D (mm) | D1 (mm) | D2 (mm) | L (mm) | L1 (mm) | L3 (mm) | H (mm) | H1 (mm) | H2 (mm) | z (mm) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 135 | 97 | 82 | 152 | 36 | 97 | 98 | 36 | 12 | 223 | 76 | 76 |
| 40 | 157 | 117 | 97 | 170 | 40 | 128 | 119 | 44 | 15 | 249 | 82 | 82 |
| 50 | 169 | 117 | 97 | 184 | 44 | 128 | 125 | 51 | 15 | 271 | 91 | 91 |
| 63 | 204 | 132 | 117 | 227 | 48 | 152 | 150 | 64 | 15 | 321 | 110 | 110 |
| 75 | 235 | 147 | 132 | 276 | 55 | 270 | 194 | 85 | 15 | 386 | 125 | 125 |
| 90 | 255 | 168 | 147 | 297 | 62 | 270 | 200 | 105 | 15 | 421 | 140 | 140 |

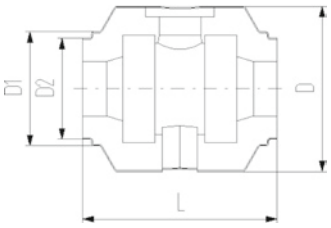













## COOL-FIT 4.0 Ball valve type 179
## 100-230V

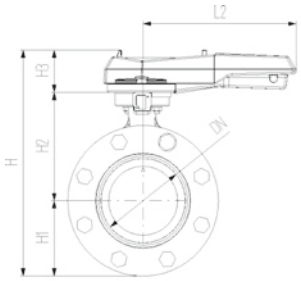
**Model:**

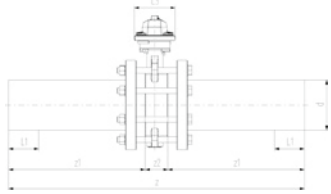
- Material: ABS with spigot PE100 SDR11, metric
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Voltage 100-230V, 50-60Hz
- Factory set control range 90°
- Heating element, position feedback (Open/Close/ Middle)
- Including insulation half shells
- Separate Fittings type A needed for joining

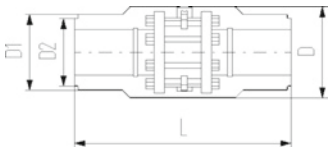
| d (mm) | DN (mm) | PN (bar) | kv-value (dp=1bar) | SDR | Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 32 | 25 | 10 | 700 | 11 | **138 546 208** | 2.838 |
| 40 | 32 | 10 | 1000 | 11 | **138 546 209** | 3.174 |
| 50 | 40 | 10 | 1600 | 11 | **138 546 210** | 3.452 |
| 63 | 50 | 10 | 3100 | 11 | **138 546 211** | 4.475 |
| 75 | 65 | 10 | 5000 | 11 | **138 546 212** | 7.156 |
| 90 | 80 | 10 | 7000 | 11 | **138 546 213** | 13.000 |

| d (mm) | D (mm) | D1 (mm) | D2 (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L3 (mm) | L4 (mm) | M | z (mm) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 135 | 97 | 82 | 228 | 36 | 12 | 152 | 36 | 190 | 25 | M6 | 223 | 76 | 71 |
| 40 | 157 | 117 | 97 | 240 | 44 | 15 | 170 | 40 | 190 | 45 | M8 | 249 | 82 | 85 |
| 50 | 169 | 117 | 97 | 246 | 51 | 15 | 184 | 44 | 190 | 45 | M8 | 271 | 91 | 89 |
| 63 | 204 | 132 | 117 | 263 | 64 | 15 | 227 | 48 | 190 | 45 | M8 | 321 | 110 | 101 |
| 75 | 235 | 147 | 132 | 322 | 85 | 15 | 276 | 55 | 190 | 70 | M8 | 386 | 125 | 136 |
| 90 | 255 | 168 | 147 | 357 | 105 | 15 | 297 | 62 | 190 | 70 | M8 | 421 | 140 | 141 |









## COOL-FIT 4.0 Wafer-style butterfly valve kit type 567
## Hand lever with ratchet settings

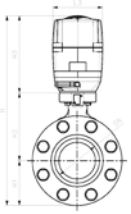
**Model:**

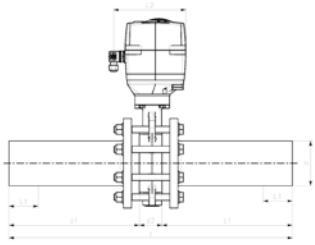
- Material: ABS with spigot PE100 SDR11, metric
- Including flange adaptors, backing flanges PP-Steel, bolts and insulation half shells
- Separate Fittings type A needed for joining

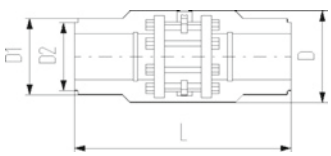
| d (mm) | DN (mm) | PN | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) |
|---|---|---|---|---|---|
| 110 | 100 | 10 | 6500 | **138 567 114** | 8.950 |
| 140 | 125 | 10 | 11500 | **138 567 116** | 15.751 |
| 160 | 150 | 10 | 16600 | **138 567 117** | 17.975 |
| 225 | 200 | 10 | 39600 | **138 567 120** | 28.316 |

| d (mm) | D (mm) | D1 (mm) | D2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | H (mm) | H1 (mm) | H2 (mm) | H3 (mm) | z (mm) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 110 | 310 | 188 | 168 | 556 | 72 | 255.0 | 106 | 325 | 104 | 167 | 55 | 696 | 320 | 56 |
| 140 | 280 | 233 | 222 | 670 | 84 | 252.5 | 58 | 369 | 119 | 180 | 70 | 830 | 383 | 64 |
| 160 | 358 | 259 | | 720 | 90 | 255.0 | 115 | 401 | 143 | 203 | 55 | 895 | 412 | 72 |
| 225 | 409 | 325 | | 776 | 110 | 408.0 | 149 | 465 | 170 | 210 | 85 | 996 | 462 | 73 |









## COOL-FIT 4.0 Wafer-style butterfly valve kit type 145
## 100-230V

**Model:**

- Material: ABS with spigot PE100 SDR11, metric
- Voltage 100-230V, 50-60Hz
- Factory set control range 90°
- Heating element, position feedback (Open/Close/ Middle)
- Including flange adaptors, backing flanges PP-Steel, bolts and insulation half shells
- Separate Fittings type A needed for joining

| d (mm) | DN (mm) | PN | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) |
|---|---|---|---|---|---|
| 110 | 100 | 10 | 6500 | **138 567 214** | 13.320 |
| 140 | 125 | 10 | 11500 | **138 567 216** | 18.650 |
| 160 | 150 | 10 | 16500 | **138 567 217** | 22.346 |
| 225 | 200 | 10 | 39600 | **138 567 220** | 36.037 |

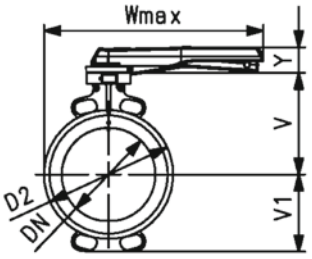
| d (mm) | D (mm) | D1 (mm) | D2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | H (mm) | H1 (mm) | H2 (mm) | H3 (mm) | z (mm) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 110 | 310 | 188 | 168 | 552 | 72 | 179 | 122 | 460 | 104 | 167 | 190 | 696 | 320 | 56 |
| 140 | 280 | 233 | 222 | 670 | 84 | 172 | 179 | 475 | 119 | 173 | 183 | 830 | 383 | 64 |
| 160 | 358 | 259 | | 720 | 90 | 179 | 122 | 535 | 143 | 203 | 190 | 895 | 412 | 72 |
| 225 | 409 | 325 | | 776 | 110 | 179 | 122 | 580 | 170 | 210 | 200 | 996 | 462 | 73 |



## Wafer-style, intermediate installation butterfly valve type 565 PVDF/PA-GF
## With hand lever
## Flange standard metric/ANSI/BS/JIS
## Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

**Model:**

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Lockable ergonmic lever
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

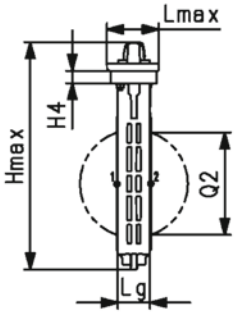


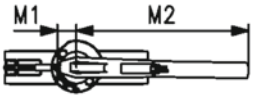

**Option:**

- Individual configuration of the valve possible
- Pneumatic or electric actuators from GF
- Double sensor for electrical position feedback  incl. LED feedback

**Note:**

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com




| d (mm) | Size (inch) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 63 | 2 | 50 | 16 | 1445 | **199 565 000** | 1.3 | **199 565 020** | 1.4 |
| 75 | 2 ½ | 65 | 16 | 2530 | **199 565 001** | 1.5 | **199 565 021** | 1.6 |
| 90 | 3 | 80 | 16 | 4020 | **199 565 002** | 1.7 | **199 565 022** | 1.8 |
| 110 | 4 | 100 | 16 | 5850 | **199 565 003** | 2.5 | **199 565 023** | 2.7 |
| 140 | 5 | 125 | 16 | 11900 | **199 565 004** | 3.1 | **199 565 024** | 3.3 |
| 160 | 6 | 150 | 16 | 18050 | **199 565 005** | 4.0 | **199 565 025** | 4.3 |
| 225 | 8 | 200 | 10 | 43667 | **199 565 006** | 5.3 | **199 565 026** | 5.7 |

| d (mm) | D2 (mm) | Wmax (mm) | Hmax (mm) | Lmax (mm) | H4 (mm) | V (mm) | V1 (mm) | Lg (mm) | M1 (mm) | M2 (mm) | Y (mm) | Q2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 100.0 | 264.0 | 249.5 | 96.0 | 23.0 | 133.5 | 63.0 | 43.0 | 35.5 | 204.5 | 53.0 | 28.5 |
| 75 | 121.0 | 271.0 | 275.5 | 96.0 | 23.0 | 140.0 | 82.0 | 46.0 | 35.5 | 204.5 | 53.0 | 44.0 |
| 90 | 138.0 | 273.5 | 288.0 | 96.0 | 23.0 | 146.0 | 89.0 | 46.0 | 35.5 | 204.5 | 53.0 | 63.5 |
| 110 | 158.5 | 334.0 | 324.0 | 96.0 | 23.0 | 166.5 | 104.0 | 52.0 | 35.5 | 254.5 | 53.0 | 84.0 |
| 140 | 187.0 | 348.0 | 351.0 | 96.0 | 23.0 | 180.0 | 118.0 | 56.0 | 35.5 | 254.5 | 53.0 | 110.5 |
| 160 | 213.0 | 426.0 | 372.5 | 96.0 | 23.0 | 189.0 | 130.5 | 56.0 | 35.5 | 319.5 | 53.0 | 137.5 |
| 225 | 267.0 | 453.0 | 422.0 | 96.0 | 23.0 | 209.5 | 159.0 | 60.0 | 35.5 | 319.5 | 53.0 | 190.5 |



**Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF**
**With electric actuator 230V**
**Without manual override**
**Flange standard metric/ANSI/BS/JIS**
**Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems**

**Model:**

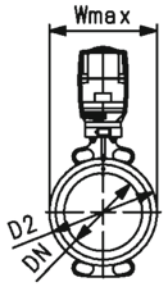
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Voltage 100-230V, 50-60Hz
- Factory set control range 0-90°
- Heating element, position feedback (Open/Close/ Middle)
- Manual override integrated in electric actuator
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

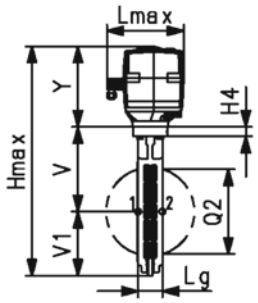
**Option:**

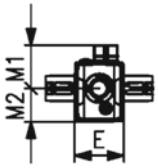
- Individual configuration of the valve possible
- Hand or pneumatic actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board
- Additional manual override between valve and actuator

**Note:**

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



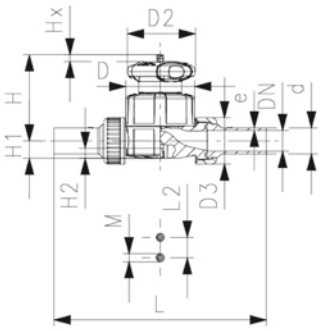




| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | Actuator | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1445 | EA45 | **199 565 300** | 3.3 | **199 565 320** | 3.4 |
| 75 | 65 | 2 ½ | 10 | 2530 | EA120 | **199 565 301** | 4.6 | **199 565 321** | 4.7 |
| 90 | 80 | 3 | 10 | 4020 | EA120 | **199 565 302** | 4.7 | **199 565 322** | 4.8 |
| 110 | 100 | 4 | 10 | 5850 | EA120 | **199 565 303** | 5.6 | **199 565 323** | 5.8 |
| 140 | 125 | 5 | 10 | 11900 | EA120 | **199 565 304** | 6.1 | **199 565 324** | 6.4 |
| 160 | 150 | 6 | 10 | 18050 | EA250 | **199 565 305** | 8.7 | **199 565 325** | 9.0 |
| 225 | 200 | 8 | 10 | 43667 | EA250 | **199 565 306** | 10.0 | **199 565 326** | 10.5 |
| 280 | 250 | 10 | 6 | 62333 | EA250 | **199 565 307** | 14.5 | **199 565 327** | 15.2 |
| 315 | 300 | 12 | 4 | 94500 | EA250 | **199 565 308** | 18.2 | **199 565 328** | 19.4 |

| d (mm) | D2 (mm) | Wmax (mm) | Hmax (mm) | Lmax (mm) | H4 (mm) | V (mm) | V1 (mm) | Lg (mm) | E (mm) | M1 (mm) | M2 (mm) | Y (mm) | Q2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 100.0 | 122.5 | 377.5 | 190.0 | 23 | 133.5 | 63.0 | 43 | 122.5 | 107.5 | 83 | 166.5 | 28.5 |
| 75 | 121.0 | 132.5 | 411.5 | 190.0 | 23 | 140.0 | 82.0 | 46 | 122.5 | 107.5 | 83 | 189.5 | 44.0 |
| 90 | 138.0 | 137.5 | 424.0 | 190.0 | 23 | 146.0 | 89.0 | 46 | 122.5 | 107.5 | 83 | 189.5 | 63.5 |
| 110 | 158.5 | 158.5 | 459.5 | 190.0 | 23 | 166.5 | 104.0 | 52 | 122.5 | 107.5 | 83 | 189.5 | 84.0 |
| 140 | 187.0 | 187.0 | 487.5 | 190.0 | 23 | 180.0 | 118.0 | 56 | 122.5 | 107.5 | 83 | 189.5 | 110.5 |
| 160 | 213.0 | 213.0 | 518.5 | 190.0 | 23 | 189.0 | 130.5 | 56 | 122.5 | 107.5 | 83 | 199.5 | 137.5 |
| 225 | 267.0 | 267.0 | 568.0 | 190.0 | 23 | 209.5 | 159.0 | 60 | 122.5 | 107.5 | 83 | 199.5 | 190.5 |
| 280 | 325.5 | 325.5 | 674.5 | 190.0 | 23 | 262.5 | 195.5 | 68 | 122.5 | 107.5 | 83 | 216.5 | 239.0 |
| 315 | 380.0 | 380.0 | 731.0 | 190.0 | 23 | 284.5 | 230.5 | 78 | 122.5 | 107.5 | 83 | 216.5 | 285.5 |






## ABS Diaphragm valve type 514
## With butt fusion spigots long

**Model:**

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

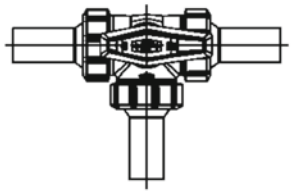
**Option:**

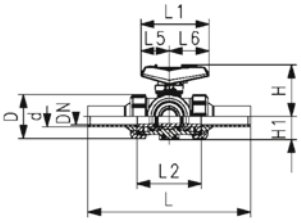
- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

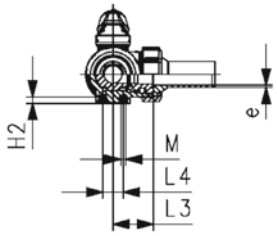
| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code |
|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 125 | **169 514 312** |
| 25 | 20 | ¾ | 10 | 271 | **169 514 313** |
| 32 | 25 | 1 | 10 | 481 | **169 514 314** |
| 40 | 32 | 1 ¼ | 10 | 759 | **169 514 315** |
| 50 | 40 | 1 ½ | 10 | 1263 | **169 514 316** |
| 63 | 50 | 2 | 10 | 1728 | **169 514 317** |

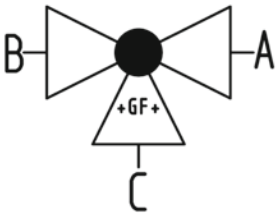
| d (mm) | DN (mm) | D (mm) | D2 (mm) | D3 (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L2 (mm) | M | z (mm) | Lift = Hx (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 15 | 65 | 65 | 43 | 73 | 14 | 12 | 230 | 25 | M6 | 96 | 7 | ½ |
| 25 | 20 | 80 | 65 | 51 | 81 | 18 | 12 | 256 | 25 | M6 | 114 | 10 | ¾ |
| 32 | 25 | 88 | 87 | 58 | 107 | 22 | 12 | 268 | 25 | M6 | 122 | 13 | 1 |
| 40 | 32 | 101 | 87 | 72 | 115 | 26 | 15 | 302 | 45 | M8 | 140 | 15 | 1 ¼ |
| 50 | 40 | 117 | 135 | 83 | 148 | 32 | 15 | 334 | 45 | M8 | 160 | 19 | 1 ½ |
| 63 | 50 | 144 | 135 | 100 | 166 | 39 | 15 | 376 | 45 | M8 | 190 | 25 | 2 |











## ecoFIT 3-Way ball valve type 543 Pro ABS
## Horizontal/L-port
## With butt fusion spigots long PE100 SDR11 metric

**Model:**

- Lockable lever as standard (DN10-DN50)
- Material: ABS/PE
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

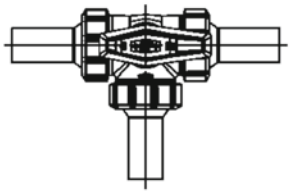
**Option:**

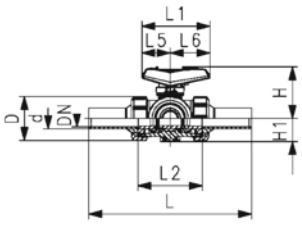
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

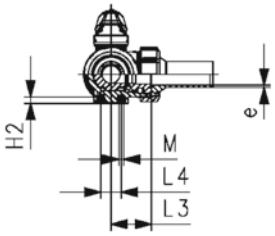
| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 75 | **169 543 302** | 0.203 |
| 25 | 20 | ¾ | 10 | 150 | **169 543 303** | 0.296 |
| 32 | 25 | 1 | 10 | 280 | **169 543 304** | 0.450 |
| 40 | 32 | 1 ¼ | 10 | 480 | **169 543 305** | 0.762 |
| 50 | 40 | 1 ½ | 10 | 620 | **169 543 306** | 1.161 |
| 63 | 50 | 2 | 10 | 1230 | **169 543 307** | 2.509 |

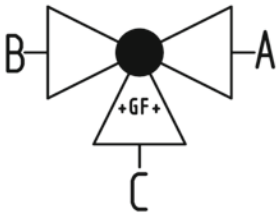
| d (mm) | DN (mm) | D (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | H (mm) | H1 (mm) | H2 (mm) | M | e (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 15 | 50 | 210 | 82 | 73 | 36 | 25 | 35 | 47 | 61 | 28 | 8 | 6 | 1.9 | ½ |
| 25 | 20 | 58 | 237 | 106 | 86 | 43 | 25 | 44 | 62 | 74 | 32 | 8 | 6 | 2.3 | ¾ |
| 32 | 25 | 68 | 251 | 106 | 99 | 50 | 25 | 44 | 62 | 80 | 36 | 8 | 6 | 2.9 | 1 |
| 40 | 32 | 84 | 283 | 131 | 120 | 60 | 45 | 57 | 74 | 95 | 45 | 9 | 8 | 3.7 | 1 ¼ |
| 50 | 40 | 97 | 319 | 131 | 137 | 69 | 45 | 57 | 74 | 102 | 51 | 9 | 8 | 4.6 | 1 ½ |
| 63 | 50 | 124 | 399 | 152 | 179 | 89 | 45 | 66 | 86 | 117 | 65 | 9 | 8 | 5.8 | 2 |

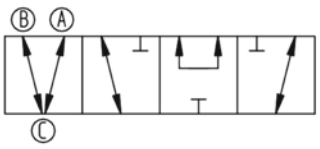







### ecoFIT 3-Way ball valve type 543 Pro ABS
### Horizontal/T-port
### With butt fusion spigots long PE100 SDR11 metric

**Model:**

- Material: ABS/PE
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

**Option:**

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 200 | **169 543 322** | 0.203 |
| 25 | 20 | ¾ | 10 | 470 | **169 543 323** | 0.296 |
| 32 | 25 | 1 | 10 | 793 | **169 543 324** | 0.450 |
| 40 | 32 | 1 ¼ | 10 | 1290 | **169 543 325** | 0.762 |
| 50 | 40 | 1 ½ | 10 | 1910 | **169 543 326** | 1.161 |
| 63 | 50 | 2 | 10 | 3100 | **169 543 327** | 2.509 |

| d (mm) | DN (mm) | D (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | H (mm) | H1 (mm) | H2 (mm) | M | e (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 15 | 50 | 210 | 82 | 73 | 36 | 25 | 35 | 47 | 61 | 28 | 8 | 6 | 1.9 | ½ |
| 25 | 20 | 58 | 237 | 106 | 86 | 43 | 25 | 44 | 62 | 74 | 32 | 8 | 6 | 2.3 | ¾ |
| 32 | 25 | 68 | 251 | 106 | 99 | 50 | 25 | 44 | 62 | 80 | 36 | 8 | 6 | 2.9 | 1 |
| 40 | 32 | 84 | 283 | 131 | 120 | 60 | 45 | 57 | 74 | 95 | 45 | 9 | 8 | 3.7 | 1 ¼ |
| 50 | 40 | 97 | 319 | 131 | 137 | 69 | 45 | 57 | 74 | 102 | 51 | 9 | 8 | 4.6 | 1 ½ |
| 63 | 50 | 124 | 399 | 152 | 179 | 89 | 45 | 66 | 86 | 117 | 65 | 9 | 8 | 5.8 | 2 |

# COOL-FIT 4.0 Accessories



### COOL-FIT 4.0 Assembly Aid-Kit
### Type B

**Model:**

- For simplified mounting of COOL-FIT 4.0 Fitting on COOL-FIT 4.0 Pipe

| d (mm) | D (mm) | Code | Weight (kg) | pieces/kit |
|---|---|---|---|---|
| 32 | 90 | **799 738 511** | 0.384 | 6 |
| 40 - 50 | 110 | **799 738 512** | 0.456 | 6 |
| 63 | 125 | **799 738 513** | 0.504 | 6 |

table continued on the next page

| d (mm) | D (mm) | Code | Weight (kg) | pieces/kit |
|---|---|---|---|---|
| 75 | 140 | **799 738 514** | 0.564 | 6 |
| 90 | 160 | **799 738 515** | 0.636 | 6 |
| 110 | 180 | **799 738 516** | 0.708 | 6 |
| 140 | 225 | **799 738 518** | 0.131 | 4 |
| 160 | 250 | **799 738 519** | 0.620 | 4 |
| 225 | 315 | **799 738 522** | 0.760 | 4 |

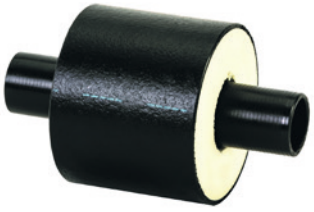


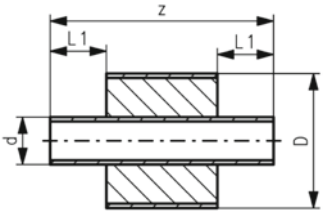

## COOL-FIT 4.0 Assembly Aid-Kit Type A

**Model:**

- For simplified mounting of COOL-FIT 4.0 Fitting on COOL-FIT 4.0 Pipe

| d (mm) | D (mm) | Code | Weight (kg) | pieces/kit |
|---|---|---|---|---|
| 32 - 225 | 90 - 315 | **799 738 502** | 6.100 | 2 / Dimension |





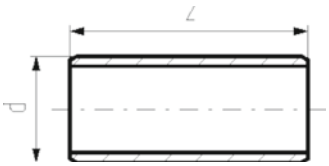

## COOL-FIT 4.0 Barrel nipple with insulation, d32-d225

**Model:**

- Pre-insulated PE100 SDR11/17 metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- For short connections between COOL-FIT 4.0 Fittings Typ A

| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| 32 | 90 | 25 | 11 | 16 | **738 913 408** | 0.126 | 36 | 151 |
| 40 | 110 | 32 | 11 | 16 | **738 913 409** | 0.188 | 40 | 155 |
| 50 | 110 | 40 | 11 | 16 | **738 913 410** | 0.226 | 44 | 163 |
| 63 | 125 | 50 | 11 | 16 | **738 913 411** | 0.328 | 48 | 171 |
| 75 | 140 | 65 | 11 | 16 | **738 913 412** | 0.447 | 55 | 185 |
| 90 | 160 | 80 | 11 | 16 | **738 913 413** | 0.631 | 62 | 199 |
| 110 | 180 | 100 | 11 | 16 | **738 913 414** | 0.929 | 72 | 219 |
| 140 | 225 | 125 | 11 | 16 | **738 913 416** | 1.101 | 84 | 243 |
| 160 | 250 | 150 | 17 | 10 | **738 913 417** | 1.576 | 90 | 255 |
| 225 | 315 | 200 | 17 | 10 | **738 913 420** | 3.254 | 110 | 295 |






## COOL-FIT 2.0/4.0 Barrel nipple

**Model:**

- PE100, SDR11/17, metric
- For the shortest possible connection between fittings
- For media temperatures between 0°C up to 60°C
- COOl-FIT 4.0 Adhesive ring needed for joining

| d (mm) | DN (mm) | SDR | PN | Code | Weight (kg) | z (mm) |
|---|---|---|---|---|---|---|
| 32 | 25 | 11 | 16 | **738 910 408** | 0.020 | 76 |
| 40 | 32 | 11 | 16 | **738 910 409** | 0.034 | 80 |
| 50 | 40 | 11 | 16 | **738 910 410** | 0.059 | 88 |
| 63 | 50 | 11 | 16 | **738 910 411** | 0.101 | 96 |
| 75 | 65 | 11 | 16 | **738 910 412** | 0.162 | 110 |
| 90 | 80 | 11 | 16 | **738 910 413** | 0.264 | 124 |
| 110 | 100 | 11 | 16 | **738 910 414** | 0.454 | 144 |
| 140 | 125 | 11 | 16 | **738 910 416** | 0.855 | 168 |
| 160 | 150 | 17 | 10 | **738 910 417** | 0.798 | 180 |
| 225 | 200 | 17 | 10 | **738 910 420** | 1.885 | 220 |

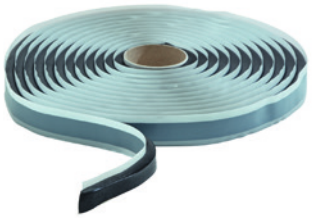


## COOL-FIT 2.0/4.0 adhesive ring

**Model:**

- Double sided, for sealing connections of fittings with barrel nipple

| D (mm) | d (mm) | d COOL-FIT 4.0 (mm) | d COOL-FIT 2.0 (mm) | Code | Weight (kg) |
|---|---|---|---|---|---|
| 75 | 32 | | 32 | **738 010 012** | 0.002 |
| 90 | 32 - 50 | 32 | 40 - 50 | **738 010 013** | 0.002 |
| 110 | 40 - 63 | 40 - 50 | 63 | **738 010 014** | 0.003 |
| 125 | 63 - 75 | 63 | 75 | **738 010 015** | 0.003 |
| 140 | 75 - 90 | 75 | 90 | **738 010 016** | 0.003 |
| 160 | 90 - 110 | 90 | 110 | **738 010 017** | 0.005 |
| 180 | 110 | 110 | | **738 010 018** | 0.005 |
| 200 | 140 | | 140 | **738 010 019** | 0.006 |
| 225 | 140 | 140 | | **738 010 020** | 0.009 |
| 250 | 160 | 160 | | **738 010 021** | 0.009 |
| 315 | 225 | 225 | | **738 010 023** | 0.027 |

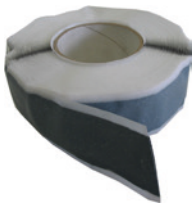


## COOL-FIT 4.0 Transition of Insulation

**Model:**

- For a moistur-proof and vapour tight transition of insulations from COOL-FIT 4.0 to COOL-FIT 2.0
- 4.5m on a roll, buthylene rubber-based

| d (mm) | D (mm) | Code | Weight (kg) |
|---|---|---|---|
| 32-140 | 90-225 | **738 013 041** | 1.400 |



## COOL-FIT 4.0 Sealing tape 40mm

**Model:**

- For a water- and steam-tight sealing of inspection gaps in combination with shrink sleeves/ -sockets
- Sealing tape: 40mm width, buthylene rubber-based
- 30 m on a roll

| d-d (mm) | D (mm) | Code | Weight (kg) | Closest inch (inch) |
|---|---|---|---|---|
| 250 - 450 | 355 - 630 | **738 011 152** | 2.134 | 10 - 18 |



## COOL-FIT 4.0 insulation for welding indicator, coupler d250-d450

- Suitable for COOL-FIT 4.0 couplers d250-d450
- Insulation for welding pin and welding indicator opening
- 2.5m on a roll, 20mm diameter, closed-cell PE foam

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 250 - 450 | **738 010 055** | 0.500 |



## COOL-FIT 4.0 Shrink socket PE

**Model:**

- For a water- and steam-tight sealing in combination with buthylene rubber-based sealing tape
- Length: 150 mm
- "Heavy duty" version for high end applications
- For connections of the same pipe outer diameter

| D (mm) | d (mm) | Code | Weight (kg) | L (mm) |
|---|---|---|---|---|
| 355 | 250 | **738 011 024** | 0.7 | 150 |
| 400 | 280 | **738 011 025** | 1.3 | 150 |
| 450 | 315 | **738 011 026** | 1.7 | 150 |
| 500 | 355 | **738 011 027** | 2.0 | 150 |
| 560 | 400 | **738 011 028** | 2.3 | 150 |
| 630 | 450 | **738 011 029** | 2.6 | 150 |



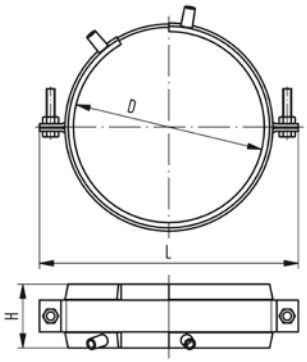
## Cold shrink tape PE black

**Model:**

- For indoor use only
- Width (L) available in 100mm
- 15 m on a roll
- Shrinks without heat application

| d-d (mm) | D (mm) | Code | Weight (kg) |
|---|---|---|---|
| 25 - 450 | 90 - 630 | **738 011 107** | 1.400 |





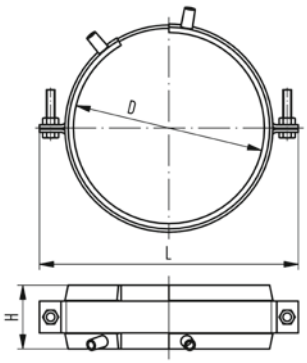

## COOL-FIT 2.0/4.0 Fixed point

**Model:**

- The product consists of two components namely electrofusion tapes and pipe brackets.
- Electrofusion welded tape as permanent connection to transmit the forces that occur in the pipe to the fixed point.
- The delivered pipe brackets are needed to deliver welding pressure during installtion and give stability during operation.
- For welding, use an MSA2.x, MSA4.x, MSA 250, 300, 350, 400 or commercially available 220 V fusion machines.
- If you use an MSA fusion machine from GF Piping Systems, use the 799 350 339 adapter or the 790 156 032 y-cable set.
- Please take note of the maximum allowed forces for this version in the table below.
- **Fixed point brackets and cross braces have to be calculated and obtained by the installer. They are not included in the fixed point set from GF.**

| D (mm) | d (mm) | d COOL-FIT 4.0 (mm) | d COOL-FIT 2.0 (mm) | Code | Weight (kg) |
|---|---|---|---|---|---|
| 75 | 32 | | 32 | **738 912 012** | 0.750 |
| 90 | 32 - 50 | 32 | 40 - 50 | **738 912 013** | 0.895 |
| 110 | 40 - 63 | 40 - 50 | 63 | **738 912 014** | 0.904 |
| 125 | 63 - 75 | 63 | 75 | **738 912 015** | 1.103 |
| 140 | 75 - 90 | 75 | 90 | **738 912 016** | 1.188 |
| 160 | 90 - 110 | 90 | 110 | **738 912 017** | 1.177 |
| 180 | 110 | 110 | | **738 912 018** | 1.530 |
| 200 | 140 | | 140 | **738 912 019** | 1.600 |
| 225 | 140 | 140 | | **738 912 020** | 1.813 |
| 250 | 160 | 160 | | **738 912 021** | 1.957 |
| 315 | 225 | 225 | | **738 912 023** | 2.388 |
| 355 | 250 | 250 | | **738 912 024** | 2.388 |

table continued on the next page



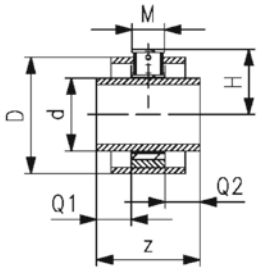

| D (mm) | d (mm) | L (mm) | H (mm) | max Force COOL-FIT 4.0 (kN) | max Force COOL-FIT 2.0 (kN) |
|---|---|---|---|---|---|
| 75 | 32 | 150 | 60 | | 2.0 |
| 90 | 32 - 50 | 170 | 60 | 2.0 | 3.0 / 5.0 |
| 110 | 40 - 63 | 180 | 60 | 3.0 / 5.0 | 8.0 |
| 125 | 63 - 75 | 215 | 60 | 8.0 | 10.0 |
| 140 | 75 - 90 | 220 | 60 | 10.0 | 10.0 |
| 160 | 90 - 110 | 255 | 60 | 10.0 | 10.0 |
| 180 | 110 | 255 | 60 | 10.0 | |
| 200 | 140 | 310 | 60 | | 10.0 |
| 225 | 140 | 310 | 60 | 10.0 | |
| 250 | 160 | 335 | 60 | 10.0 | |
| 315 | 225 | 400 | 60 | 10.0 | |
| 355 | 250 | 420 | 60 | 10.0 | |



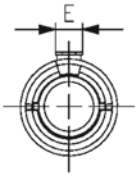
## COOL-FIT 4.0 Fixpoint kit for high forces

**Model:**

- The product consists of fixpoint, pipe section and insulation kit
- Fixed point for installation between two electrofusion fittings, transmits the forces emanating from the pipe to the fixed point
- Pipe section PE100 SDR11, metric
- Fixpoint with welding plate made from S235JR (1.0038). With corrosion protection coating
- Insulation made from EPDM soft foam. For outdoor application use additional protection
- Please take note of the maximum allowed forces for this version in the table below.
- A force calculation of the fixpoint clamp and the attachment point is required
- For the bonding, adhesive 738010060 is recommended
- d355 to d450 on request with delivery time of 3 month.




| d (mm) | D (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 140 | 225 | 125 | 11 | 16 | **738 913 816** | 6.382 |
| 160 | 250 | 150 | 11 | 16 | **738 913 817** | 6.386 |
| 225 | 315 | 200 | 11 | 16 | **738 913 820** | 7.479 |
| 250 | 355 | 250 | 11 | 16 | **738 913 821** | 10.856 |
| 280 | 400 | 250 | 11 | 16 | **738 913 822** | 14.172 |
| 315 | 450 | 300 | 11 | 16 | **738 913 823** | 16.272 |



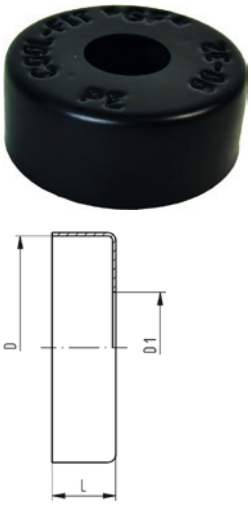

| d (mm) | z (mm) | Q1 (mm) | Q2 (mm) | Dos (mm) | H (mm) | M (mm) | E (mm) | Wrench size (mm) | max. Force (kN) |
|---|---|---|---|---|---|---|---|---|---|
| 140 | 268 | 84 | 84 | 251 | 136.5 | 100 | 100 | 24 | 35 |
| 160 | 280 | 90 | 90 | 283 | 165.5 | 100 | 100 | 24 | 35 |
| 225 | 320 | 110 | 110 | 360 | 205.0 | 100 | 100 | 24 | 35 |
| 250 | 346 | 123 | 123 | 391 | 213.5 | 100 | 100 | 24 | 35 |
| 280 | 352 | 126 | 126 | 436 | 231.0 | 100 | 100 | 24 | 35 |
| 315 | 366 | 133 | 133 | 486 | 279.0 | 100 | 180 | 24 | 35 |




## COOL-FIT Y cables kit

- The COOL-FIT Y cables are used to speed up the installation of the fixed points electrofusion tapes. The Y cables allow the welding in parallel of 2 E-Tapes, halving the total duration of the fusion process.
- Compatible with all MSA Units

| Description | Code | Weight (kg) |
|---|---|---|
| 4 leads cable with 2mm plugs in output | **790 156 032** | 0.385 |




### COOL-FIT 4.0 Endcap

**Model:**

- To protect the insulation at the end of a COOL-FIT 4.0 piping system

| d (mm) | D (mm) | D1 (mm) | Code | Weight (kg) | L (mm) |
|---|---|---|---|---|---|
| 250 | 355 | 265 | **733 960 185** | 0.155 | 35 |
| 280 | 400 | 300 | **733 960 186** | 0.185 | 35 |
| 315 | 450 | 335 | **733 960 187** | 0.225 | 35 |
| 355 | 500 | 370 | **733 963 188** | 0.269 | 35 |
| 400 | 560 | 420 | **733 963 189** | 0.269 | 35 |
| 450 | 630 | 470 | **733 963 190** | 0.269 | 35 |




### COOL-FIT 2.0/4.0 Adhesive cement

**Model:**

- For the jointing of NBR foam insulations of flexible hoses and transition fittings

| Code | Weight (kg) |
|---|---|
| **738 010 060** | 0.240 |



### COOL-FIT 2.0/4.0 Adhesive tape

**Model:**

- For the jointing of NBR foam insulations of flexible hoses and transition fittings
- 30m on a roll

| Code | Weight (kg) |
|---|---|
| **738 010 065** | 0.400 |

## COOL-FIT 4.0 Tools



### COOL-FIT 2.0/4.0 Foam removal and peeling tool

**Model:**

- Tool for foam removal and peeling of COOL-FIT 2.0 and 4.0 pipes

| d (mm) | Code | Weight (kg) | SDR |
|---|---|---|---|
| 32-90 | **799 738 001** | 10.500 | SDR11 |
| 110-225 | **799 738 003** | 16.500 | d110+d140 SDR11; d160+d225 SDR17 |
| 250-450 | **799 738 004** | 71.000 | SDR17 |



## COOL-FIT 2.0/4.0 Upgrade kit foam removal and peeling tool d140-d225

**Model:**

- Upgrade for COOL-FIT 2.0/4.0 foam removal and peeling tool d110-d225 (799738003)
- For easier foam removal and peeling of COOL-FIT 2.0 and 4.0 pipes in the dimensions d140-d225

**Note:**

Spindle and clamping shoes are to be used of COOL-FIT 2.0/4.0 foam removal and peeling tool799738003, or 799738015 respectively.

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 140-225 | **799 738 013** | 50.000 |



## COOL-FIT 2.0/4.0 Foam removal and peeling tool SDR11

**Model:**

- Tool for foam removal and peeling of COOL-FIT 2.0 and 4.0 pipes

| d (mm) | Code | Weight (kg) | SDR |
|---|---|---|---|
| 110-225 | **799 738 015** | 16.500 | SDR11 |
| 250-450 | **799 738 016** | 71.000 | SDR11 |



## COOL-FIT 4.0 Clamping shoe set d250-d450, SDR11

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 004)
- Case incl. lid containing clamping shoes, blade holder and accesssories

| d (mm) | Code | Weight (kg) | SDR |
|---|---|---|---|
| 250 - 450 | **799 738 161** | 60.000 | SDR11 |

## MSA 2.1 Automatic Electrofusion Unit with Bluetooth connectivity and protocols export




The MSA 2.1 automatic electro fusion unit combines light weight and high efficiency, thanks to its inverter technology and furthermore provides fusion documentation in PDF. The unit is extremely fast and simple, with three basic operations required to operator: connect, scan, start the fusion. It is robust, safe and ergonomic.
All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive. The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.
The internal Bluetooth Low Energy device offers the possibility to enter data, monitor the fusion from remote and collect the data recorded via wireless with consumer smartphones, to send them to the headquarter even in real time.
The unit can keep up to 1000 protocols permanently stored in the internal memory. The user can export the fusion reports to an USB stick to print them out in PDF format.
Scope of delivery includes: transport box, angle adapters (4.0 mm and 4.7 mm), operating instructions, START/STOP badge and USB memory stick with PC applications.

**Technical Data:**

- Operating temperature: -20°C to +50°C
- Mains voltage and frequency: 230V (190V - 265V), 50-60Hz
- Fusion voltage: 8-42 V (48 V)
- Fusion data input mode: bar code, manual
- Fusion current: 90 A (max)
- Suggested power generators: 3.5 kVA
- USB Port: Type A
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m / Fusion cable: 4 m (8 m only for code 790156010)
- Weight: ca. 11.9 kg
- Display: Graphical LCD, adjustable contrast
- Independent from languages
- Bluetooth radio interface

| Description | Code | Weight (kg) |
|---|---|---|
| Barcode scanner, transport case, mini Welding Book | **790 156 003** | 11.900 |
| Barcode scanner, transport case, mini Welding Book, Swiss plug | **790 156 006** | 11.900 |
| Barcode scanner, transport case, mini Welding Book, 8m fusion cable | **790 156 010** | 12.900 |



## Long adapters

- Adapters for Electrofusion units with 4 mm connectors.
- Longer version, suitable for all COOL-FIT 4.0 dimensions.

| Description | Code | Weight (kg) |
|---|---|---|
| Angle adapters pair, black, 4.0mm | **790 128 035** | 0.058 |




## COOL-FIT 2.0/4.0 Installation tool weld-in port

**Model:**

- Tool for the installation of weld-in ports to COOL-FIT pipes
- Complete: toolcase equipped with all necessary tool components to install weld-in ports 1/2"-1" and d16-d50
- Basic: toolcase equipped with all necessary tool components to install weld-in ports 1/2"-1" and d16-d32 and the possibility to upgrade with d40+d50
- Upgrade kit: kit to upgrade basic tool to complete tool
- Version 230V with AC power plug CEE 7/4 (Schuko)
- Version 110V with AC power plug NEMA 5-15 grounded (Type B)

**Note:**

For pipes COOL-FIT 2.0, COOL-FIT 2.0F, COOL-FIT 4.0 and COOL-FIT 4.0F of the dimension d63-d225
Type A) Complete: toolcase equipped with all necessary tool components to install weld-in ports 1/2"-1" and d16-d50
Type B) Basic: toolcase equipped with all necessary tool components to install weld-in ports 1/2"-1" and d16-d32 and the possibility to upgrade with d40+d50
Type C) Upgrade kit: kit to upgrade basic tool to complete tool

| Type | Voltage | Code | Weight (kg) |
|---|---|---|---|
| A | 230 V | **799 738 300** | 20.700 |
| B | 230 V | **799 738 301** | 14.100 |
| A | 110 V | **799 738 302** | 20.700 |
| B | 110 V | **799 738 303** | 14.100 |
| C | | **799 738 310** | 7.000 |



## Clamping tool
## Double, multi size with universal link

- Recommended for the installation of fittings ELGEF Plus and ecoFIT d40 - 200 and d160 - 630mm
- Recommended for the installation of fittings COOL-FIT d32/D75 - d140/D200 and d160/D250 - d450/D630
- The clamping allows installation without tension and avoids movement during fusion and cooling time
- The centrally located adjustable universal link allows installation of electrofusion couplers, elbows and reducers
- Works above, below and alongside the joint
- Adaptor for use with Tee-pieces available (see accessories)

| d (mm) | d1 (mm) | Code | Weight (kg) |
|---|---|---|---|
| 40 | 200 | **799 301 490** | 4.200 |
| 160 | 630 | **799 301 496** | 14.100 |

| d (mm) | Description | Length (mm) | Width (mm) | Height (mm) |
|---|---|---|---|---|
| 40 | Scope of delivery: 2 x V-block, 2 x Straight bar, 1 x Universal link, Transport bag (600x380x250) | 900 | 290 | 230 |
| 160 | Scope of delivery: 2 x V-block, 2 x Straight bar, 1 x Universal link, Transport bag (780x780x580) | 1300 | 670 | 550 |



## Clamping tool
## Quadruple, multi size with universal link

- Recommended for the installation of fittings ELGEF Plus and ecoFIT d40 - 200 and d160 - 630mm
- Recommended for the installation of fittings COOL-FIT d32/D75 - d140/D200 and d160/D250 - d450/D630
- The clamping allows installation without tension and avoids movement during fusion and cooling time
- The centrally located adjustable universal link allows installation of electrofusion couplers, elbows and reducers
- Universal use; works above, below and alongside the joint
- Adaptor for use with Tee-pieces available (see accessories)

| d (mm) | d1 (mm) | Code | Weight (kg) | Description | L (mm) | W (mm) | H (mm) |
|---|---|---|---|---|---|---|---|
| 40 | 200 | **799 301 489** | 8.300 | Scope of delivery: 4 x V-block, 2 x Straight bar, 1 x Universal link | 900 | 290 | 230 |
| 160 | 630 | **799 301 495** | 23.300 | Scope of delivery: 4 x V-block, 2 x Straight bar, 1 x Universal link | 1300 | 670 | 550 |



## Tee adaptor

- Suitable for clamping tool (799301495)

| d (mm) | d1 (mm) | Code | Weight (kg) | Description | Length (mm) | Width (mm) | Height (mm) |
|---|---|---|---|---|---|---|---|
| 40 | 200 | **799 301 491** | 0.610 | Tee adaptor | 600 | 50 | 40 |
| 160 | 630 | **799 301 497** | 3.500 | Tee adaptor | 1070 | 75 | 60 |



## V-block

- Suitable for clamping tool (799301495)

| d (mm) | d1 (mm) | Code | Weight (kg) | Description | Length (mm) | Width (mm) | Height (mm) |
|---|---|---|---|---|---|---|---|
| 40 | 200 | **799 301 492** | 1.000 | V-block complete | 290 | 230 | 65 |
| 160 | 630 | **799 301 498** | 3.200 | V-block complete | 660 | 430 | 90 |



## Bar extension

- Suitable for clamping tool (799301495)

| d (mm) | d1 (mm) | Code | Weight (kg) | Description | L (mm) | W (mm) | H (mm) |
|---|---|---|---|---|---|---|---|
| 160 | 630 | **799 301 499** | 1.000 | Bar extension | 1000 | 40 | 40 |

# COOL-FIT 4.0 Spare Parts



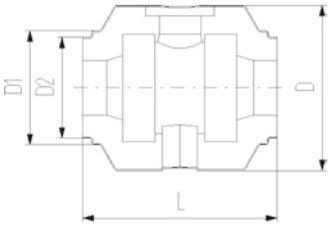
## COOL-FIT 2.0/4.0 Insulation for ball valve type 546 / 542

**Model:**

- Set consisting of half shells and clamps

**Note:**

Suitable for COOL-FIT ball valve only




| d (mm) | D (mm) | DN (mm) | Code | Weight (kg) | D1 (mm) | D2 (mm) | L (mm) |
|---|---|---|---|---|---|---|---|
| 32 | 135 | 25 | **738 990 308** | 0.160 | 97 | 82 | 152 |
| 40 | 157 | 32 | **738 990 309** | 0.228 | 117 | 97 | 170 |
| 50 | 169 | 40 | **738 990 310** | 0.282 | 117 | 97 | 184 |
| 63 | 204 | 50 | **738 990 311** | 0.498 | 132 | 117 | 227 |
| 75 | 235 | 65 | **738 990 312** | 0.935 | 147 | 132 | 276 |
| 90 | 255 | 80 | **738 990 313** | 1.033 | 168 | 147 | 297 |



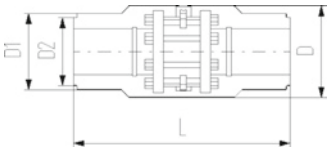
## COOL-FIT 2.0/4.0 Insulation for Butterfly Valve Type 567

**Model:**

- Set consisting of half shells and clamps

**Note:**

Suitable for COOL-FIT butterfly valve only




| d (mm) | D (mm) | DN (mm) | Code | Weight (kg) | D1 (mm) | D2 (mm) | L (mm) |
|---|---|---|---|---|---|---|---|
| 110 | 310 | 100 | **738 990 324** | 2.054 | 188 | 168 | 556 |
| 140 | 287 | 125 | **738 990 326** | 2.947 | 233 | 208 | 662 |
| 160 | 358 | 150 | **738 990 327** | 3.675 | 259 | | 720 |
| 225 | 409 | 200 | **738 990 330** | 4.811 | 325 | | 776 |



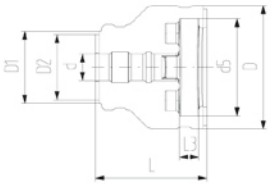
## COOL-FIT 2.0/4.0 Insulation for flange adaptor

**Model:**

- Set consisting of half shells and clamps

**Note:**

Suitable for COOL-FIT flange adaptor only




| d (mm) | D (mm) | DN (mm) | Code | Weight (kg) | D1 (mm) | D2 (mm) | L (mm) | L3 (mm) | d5 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 32 | 135 | 25 | **738 990 458** | 0.230 | 90 | 75 | 162 | 26 | 121 |
| 40 | 170 | 32 | **738 990 459** | 0.340 | 110 | 90 | 165 | 28 | 146 |
| 50 | 180 | 40 | **738 990 460** | 0.400 | 110 | 90 | 178 | 30 | 156 |
| 63 | 200 | 50 | **738 990 461** | 0.560 | 125 | 110 | 230 | 32 | 171 |
| 75 | 220 | 65 | **738 990 462** | 0.650 | 140 | 125 | 232 | 34 | 191 |
| 90 | 240 | 80 | **738 990 463** | 0.830 | 160 | 140 | 245 | 35 | 206 |
| 110 | 270 | 100 | **738 990 464** | 1.100 | 180 | 160 | 254 | 36 | 235 |
| 140 | 300 | 125 | **738 990 466** | 1.140 | 225 | 200 | 299 | 38 | 256 |
| 160 | 358 | 150 | **738 990 467** | 1.560 | 259 | | 332 | 34 | 295 |
| 225 | 423 | 200 | **738 990 470** | 2.800 | 325 | | 383 | 37 | 354 |



## COOL-FIT 4.0 Insulation for adaptor fittings PE-metal thread

**Model:**

- Set consisting of half shells and clamps
- Type A: Female thread RP, NPT, loose nut G
- Type B: Male thread R, NPT
- Type C: Both female and male thread

| d (mm) | Code | Weight (kg) | Type |
|---|---|---|---|
| 32 | **738 990 408** | 0.064 | A |
| 32 | **738 990 418** | 0.045 | B |
| 40 | **738 990 409** | 0.083 | C |
| 50 | **738 990 410** | 0.093 | C |
| 63 | **738 990 411** | 0.111 | C |



## COOL-FIT 4.0 Insulation for adaptor union PE-PE

**Model:**

- Set consisting of half shells and clamps

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 32 | **738 990 428** | 0.106 |
| 40 | **738 990 429** | 0.166 |
| 50 | **738 990 430** | 0.188 |
| 63 | **738 990 431** | 0.109 |



## COOL-FIT 4.0 Insulation for adaptor union PE-ABS

**Model:**

- Set consisting of half shells and clamps

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 32 | **738 990 438** | 0.088 |
| 40 | **738 990 439** | 0.107 |
| 50 | **738 990 440** | 0.126 |
| 63 | **738 990 441** | 0.178 |
| 75 | **738 990 442** | 0.374 |
| 90 | **738 990 443** | 0.493 |
| 110 | **738 990 444** | 0.597 |



## COOL-FIT 4.0 Insulation for welding indicator-kit

**Model:**

- Type A suitable for COOL-FIT 4.0 Fittings d32-d110
- Type B suitable for COOL-FIT 4.0 Fittings d160 and coupler d225
- Type C suitable for COOL-FIT 4.0 Fittings d225 except coupler

| d (mm) | Code | Weight (kg) | Type | pieces/kit |
|---|---|---|---|---|
| 32 - 110 | **738 010 052** | 0.090 | A | 20 |
| 140 - 225 | **738 010 053** | 0.200 | B | 10 |
| 225 | **738 010 054** | 0.033 | C | 10 |



## Peeling blade d32-d90

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 001)

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 32 | **799 738 101** | 0.015 |
| 40 | **799 738 102** | 0.020 |
| 50 | **799 738 103** | 0.019 |
| 63 | **799 738 104** | 0.020 |
| 75 | **799 738 105** | 0.020 |
| 90 | **799 738 106** | 0.030 |



## Peeling blade d110-d225

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 003)

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 110 | **799 738 107** | 0.100 |
| 140 | **799 738 108** | 0.100 |
| 160 | **799 738 109** | 0.100 |
| 225 | **799 738 110** | 0.100 |



## Replacement blade foam separator

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 004) and upgrade kit d140-d225 (799 738 013)

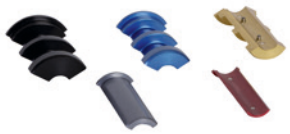
| Code | Weight (kg) | Suitable for |
|---|---|---|
| **799 738 115** | 0.100 | 799 738 004 |
| **799 738 117** | 0.080 | 799 738 013 |



## O-Ring for clamping shoe

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 001 and 799 738 003)

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 32 | **799 738 050** | 0.003 |
| 110 | **799 738 051** | 0.010 |



## Clamping shoe d32-d90

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 001)

| d (mm) | Code | Weight (kg) | Colour |
|---|---|---|---|
| 32 | **799 738 020** | 0.240 | silver |
| 40 | **799 738 021** | 0.090 | red |
| 50 | **799 738 022** | 0.210 | anthracite |
| 63 | **799 738 023** | 0.120 | gold |
| 75 | **799 738 024** | 0.270 | blue |
| 90 | **799 738 025** | 0.480 | black |



## Clamping shoe d250-d450, SDR17

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 004)
- Type A: Spindle start
- Type B: With pipe stop

| d (mm) | Code | Weight (kg) | Colour | Type |
|---|---|---|---|---|
| 250 | **799 738 042** | 0.240 | silver | A |
| 250 | **799 738 052** | 0.240 | silver | B |
| 280 | **799 738 043** | 0.265 | red | A |
| 280 | **799 738 053** | 0.315 | red | B |
| 315 | **799 738 044** | 0.300 | anthracite | A |
| 315 | **799 738 054** | 0.350 | anthracite | B |
| 355 | **799 738 045** | 0.370 | gold | A |
| 355 | **799 738 055** | 0.430 | gold | B |
| 400 | **799 738 046** | 0.450 | blue | A |
| 400 | **799 738 056** | 0.520 | blue | B |
| 450 | **799 738 047** | 0.550 | black | A |
| 450 | **799 738 057** | 0.600 | black | B |



## Clamping shoe d110-d225

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 003)
- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 015)
- Type A: Spindle start
- Type B: With pipe stop
- Delivery unit: 1 piece (3 pieces are required for complete circumference)

| d (mm) | Type | Code | Weight (kg) | Colour | SDR |
|---|---|---|---|---|---|
| 110 | | **799 738 026** | 0.680 | silver | SDR11 |
| 140 | A | **799 738 027** | 0.480 | red | SDR11 |
| 140 | B | **799 738 037** | 0.480 | red | SDR11 |
| 160 | A | **799 738 028** | 0.580 | anthracite | SDR17 |
| 160 | B | **799 738 038** | 0.580 | anthracite | SDR17 |
| 160 | A | **799 738 121** | 0.580 | anthracite | SDR11 |
| 160 | B | **799 738 122** | 0.580 | anthracite | SDR11 |
| 225 | A | **799 738 029** | 0.600 | gold | SDR17 |
| 225 | B | **799 738 039** | 0.600 | gold | SDR17 |
| 225 | A | **799 738 123** | 0.600 | gold | SDR11 |
| 225 | B | **799 738 124** | 0.600 | gold | SDR11 |



## Clamping shoe d110-d225

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 003)
- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 015)
- Type A: Spindle start
- Type B: With pipe stop
- Delivery unit: 1 piece (3 pieces are required for complete circumference)

| d (mm) | Type | Code | Weight (kg) | Colour | SDR |
|---|---|---|---|---|---|
| 110 | | **799 738 026** | 0.680 | silver | SDR11 |
| 140 | A | **799 738 027** | 0.480 | red | SDR11 |
| 140 | B | **799 738 037** | 0.480 | red | SDR11 |
| 160 | A | **799 738 028** | 0.580 | anthracite | SDR17 |
| 160 | B | **799 738 038** | 0.580 | anthracite | SDR17 |
| 160 | A | **799 738 121** | 0.580 | anthracite | SDR11 |
| 160 | B | **799 738 122** | 0.580 | anthracite | SDR11 |

table continued on the next page

| d (mm) | Type | Code | Weight (kg) | Colour | SDR |
|---|---|---|---|---|---|
| 225 | A | **799 738 029** | 0.600 | gold | SDR17 |
| 225 | B | **799 738 039** | 0.600 | gold | SDR17 |
| 225 | A | **799 738 123** | 0.600 | gold | SDR11 |
| 225 | B | **799 738 124** | 0.600 | gold | SDR11 |



### Circular blade

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 001 and 799 738 003)

| Code | Weight (kg) |
|---|---|
| **799 738 040** | 0.008 |



### Circular blade-Set

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799738001 and 799738003)
- Consists of: Circular blade, holder and screw

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 32 - 90 | **799 738 048** | 0.025 |
| 110 - 225 | **799 738 049** | 0.025 |



### Saw blade rotary saw

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 004)

| Code | Weight (kg) |
|---|---|
| **799 738 114** | 0.010 |



### Saw

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 003)

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 140 - 225 | **799 738 060** | 1.000 |



### Saw blade

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 003)

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 140 - 225 | **799 738 061** | 0.029 |



### Locking pin

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 004)

| Code | Weight (kg) |
|---|---|
| **799 738 116** | 0.250 |



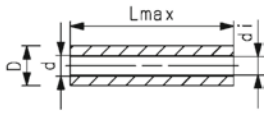

### Spare blades for deburring tool

- 10 pieces

| Code | Weight (kg) |
|---|---|
| **790 205 083** | 0.031 |

# COOL-FIT 4.0 Push System Pipes and Fittings





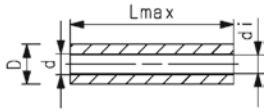

### COOL-FIT 4.0 Push System, Pipe bar

**Model:**

- Pre-insulated multilayer (PE-RT/AL/PE-RT) pipe, metric
- Closed cell insulation based EPDM with polyester wire mesh for mechanical protection
- Colour: black

| d (mm) | D (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | di (mm) | L (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|
| 25 | 78 | 20 | 16 | **738 173 007** | 0.888 | 20 | 5000 | ¾ |
| 32 | 85 | 25 | 16 | **738 173 008** | 1.037 | 26 | 5000 | 1 |





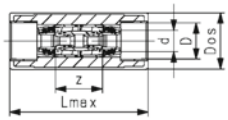

### COOL-FIT 4.0 Push System, Pipe coiled

**Model:**

- Pre-insulated multilayer (PE-RT/AL/PE-RT) pipe, metric
- Closed cell insulation based EPDM with polyester wire mesh for mechanical protection
- Colour: black

| d (mm) | D (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | di (mm) | L (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|
| 25 | 78 | 20 | 16 | **738 173 057** | 0.893 | 20 | 25000 | ¾ |





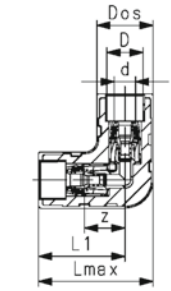

## COOL-FIT 4.0 Push System, Coupler

**Model:**

- Push fitting made of high-performance plastic PPSU
- Custom fit insulation shell of XPE with TPE jacket
- Colour: black
- Package contents: 1x module, 2x adaptors, 2x compression rings and insulation half shells

| d (mm) | D (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Dos (mm) | Lmax (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| 25 | 78 | 20 | 16 | **738 913 007** | 0.533 | 100 | 212 | 72 |
| 32 | 85 | 25 | 16 | **738 913 008** | 0.483 | 100 | 212 | 72 |





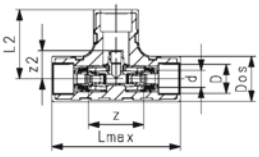

## COO-FIT 4.0 Push System, Elbow 90°

**Model:**

- Push fitting made of high-performance plastic PPSU
- Insulation shell of XPE with TPE jacket
- Colour: black
- Package contents: 1x module, 2x adaptors, 2x compression rings and insulation half shells

| d (mm) | D (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Dos (mm) | Lmax (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 25 | 78 | 20 | 16 | **738 103 007** | 0.577 | 100 | 182 | 132 | 62 |
| 32 | 85 | 25 | 16 | **738 103 008** | 0.551 | 100 | 182 | 132 | 62 |






## COOL-FIT 4.0 Push System, T90° equal

**Model:**

- Push fitting made of high-performance plastic PPSU
- Insulation shell of XPE with TPE jacket
- Colour: black
- Package contents: 1x module, 2x adaptors, 2x compression rings and insulation half shells

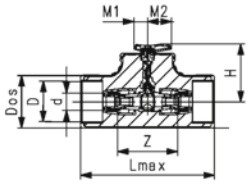
**Note:**

Additonal COOL-FIT 4.0 Push System, Adaptor kit 738903057 or 738903058 needed

| d (mm) | D (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Dos (mm) | Lmax (mm) | L2 (mm) | z (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 25/25-32/25 | 78 | 20 | 16 | **738 203 007** | 0.702 | 100 | 246 | 132 | 106 | 54 |
| 32/25-32/32 | 85 | 25 | 16 | **738 203 008** | 0.676 | 100 | 246 | 132 | 106 | 54 |

# COOL-FIT 4.0 Push System Valves





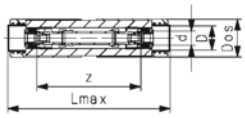

## COOL-FIT 4.0 Push System, Ball valve

**Model:**

- Ball valve with spindle extension
- Insulation shell of XPE with TPE jacket
- Colour: black
- Package contents: 1x ball valve, 2x adaptor, 2x compression ring and insulation half shells

| d (mm) | D (mm) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | Code | Weight (kg) | Dos (mm) | H (mm) | Lmax (mm) | M1 (mm) | M2 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 78 | 20 | 16 | 29.5 | **138 983 007** | 1.094 | 100 | 111 | 246 | 26 | 41 | 116 |
| 32 | 85 | 25 | 16 | 29.5 | **138 983 008** | 1.068 | 100 | 111 | 246 | 26 | 41 | 116 |






## COOL-FIT 4.0 Push System, Flow control valve Both sides connection with iFIT

**Model:**

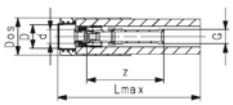
- Flow control valve made of brass, impact resistant plastic and EPDM seals
- Insulation made of NBR and shells of TPE
- Both sides connection to COOL-FIT 4.0 Push System
- Measuring range: 8.0 – 30.0 (l/min)
- Measuring accuracy: ±10% of the displayed value
- Package contents: 1x valve, 2x adaptors, 2x compression rings, 1x insulation shell

**Note:**

The use of antifreeze agents changes the viscosity and density of the medium. Depending on the proportion added, the actual flow rate therefore deviates from the displayed flow rate. Please contact GF for further information

| d (mm) | D (mm) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | Code | Weight (kg) | Dos (mm) | Lmax (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 25 | 78 | 20 | 10 | 83.3 | **138 983 027** | 1.346 | 100 | 374 | 239 |
| 32 | 85 | 25 | 10 | 83.3 | **138 983 028** | 1.328 | 100 | 374 | 239 |






## COOL-FIT 4.0 Push System, Flow control valve One free end with iFIT

**Model:**

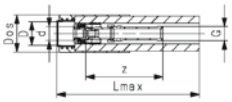
- Flow control valve made of brass, impact resistant plastic and EPDM seals
- Insulation made of NBR and shells of TPE
- One side connection to COOL-FIT 4.0 Push System
- One side connection with thread
- Measuring range: 8.0 – 30.0 (l/min)
- Measuring accuracy: ±10% of the displayed value
- Package contents: 1x valve, 1x adaptor, 1x compression ring, 1x insulation shell

**Note:**

The use of antifreeze agents changes the viscosity and density of the medium. Depending on the proportion added, the actual flow rate therefore deviates from the displayed flow rate. Please contact GF for further information

| d (mm) | D (mm) | Thread Type | Size (inch) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 25 | 78 | G | 1 | 20 | 10 | 83.3 | **138 983 017** | 0.865 |
| 32 | 85 | G | 1 | 25 | 10 | 83.3 | **138 983 018** | 0.852 |

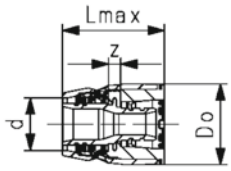
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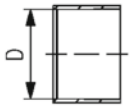



| d (mm) | D (mm) | Dos (mm) | Lmax (mm) | z (mm) |
|---|---|---|---|---|
| 25 | 78 | 100 | 332 | 180 |
| 32 | 85 | 100 | 332 | 180 |

# COOL-FIT 4.0 Push System Accessories






## COOL-FIT 4.0 Push System, Adaptor kit

**Model:**

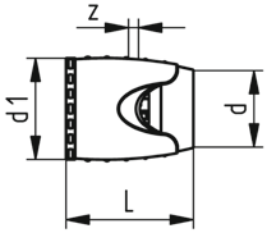
- Adapter made of high-performance plastic PPSU
- Compression ring made of PP-H
- Package contents: 1x adaptor, 1x compression ring

**Note:**

Additionally needed for COOL-FIT 4.0 Push System, T 90° equal

| d (mm) | D (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | Do (mm) | Lmax (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| 25 | 78 | 20 | 16 | **738 903 057** | 0.119 | 44 | 62 | 7.5 |
| 32 | 85 | 25 | 16 | **738 903 058** | 0.106 | 50 | 63 | 7.5 |



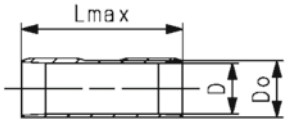



## iFIT Adaptor PPSU

- Material: PPSU, PA

| d (mm) | d1 (mm) | Code | Weight (kg) | L (mm) | z (mm) |
|---|---|---|---|---|---|
| 25 | 45 | **762 101 034** | 0.070 | 62 | 8 |
| 32 | 52 | **762 101 035** | 0.085 | 63 | 8 |






## COOL-FIT 4.0 Push System, Pipe shell

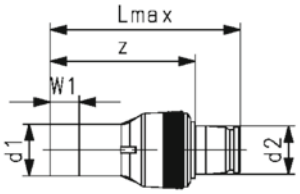
**Model:**

- Shell for easy installation in standard pipe clips

| d (mm) | D (mm) | Do (mm) | Code | Weight (kg) | Lmax (mm) |
|---|---|---|---|---|---|
| 25 | 78 | 86 | **738 013 007** | 0.133 | 200 |
| 32 | 85 | 93 | **738 013 008** | 0.144 | 200 |

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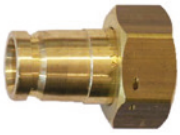

## COOL-FIT 2.0/4.0 Adaptor fitting PE/iFIT

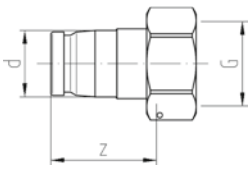
**Model:**

- Spigot fitting PE100 SDR11, metric with free end
- Push system module brass

| d1 (mm) | d2 (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | Lmax (mm) | W1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 32 | 25/32 | 25 | 11 | 16 | **738 950 058** | 0.219 | 115 | 36 | 87 |

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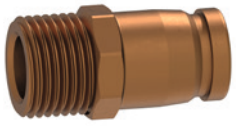


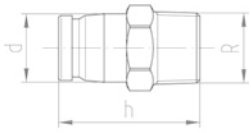

## iFIT Transition union module brass With flat sealed

- Material: brass, dezincification resistant
- Supplied with: sealing

| d (mm) | Thread Type | Size (inch) | Code | Weight (kg) | z (mm) |
|---|---|---|---|---|---|
| 25 - 32 | G | ¾ | **762 101 281** | 0.155 | 48 |
| 25 - 32 | G | 1 | **762 101 282** | 0.179 | 55 |
| 25 - 32 | G | 1 ¼ | **762 101 283** | 0.251 | 48 |
| 25 - 32 | G | 1 ½ | **762 101 284** | 0.357 | 50 |

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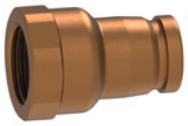


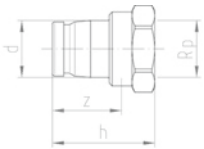



### iFIT Transition module gunmetal lead-free
### With male thread

- Material: gunmetal lead-free
- Connection: male thread

| d (mm) | Thread Type | Size (inch) | Code | Weight (kg) | h (mm) |
|---|---|---|---|---|---|
| 16 - 20 | R | ⅜ | **762 102 346** | 0.061 | 42 |
| 16 - 20 | R | ½ | **762 102 265** | 0.065 | 43 |
| 16 - 20 | R | ¾ | **762 102 266** | 0.071 | 43 |
| 25 - 32 | R | ¾ | **762 102 277** | 0.155 | 53 |
| 25 - 32 | R | 1 | **762 102 278** | 0.185 | 57 |






### iFIT Transition module gunmetal lead-free
### With female thread

- Material: gunmetal lead-free
- Connection: female thread

| d (mm) | Thread Type | Size (inch) | Code | Weight (kg) | h (mm) | z (mm) |
|---|---|---|---|---|---|---|
| 16 - 20 | Rp | ½ | **762 102 267** | 0.070 | 40 | 23 |
| 16 - 20 | Rp | ¾ | **762 102 268** | 0.094 | 42 | 25 |
| 25 - 32 | Rp | ¾ | **762 102 279** | 0.138 | 48 | 31 |
| 25 - 32 | Rp | 1 | **762 102 280** | 0.196 | 53 | 34 |

## COOL-FIT 4.0 Push System Tools



### iFIT Tool set for ML- and PB pipes plastic

d16 / d20 with pipe scissor, d25 / d32 with pipe cutter

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 25 / 32 | **762 101 133** | 1.371 |



### iFIT Chamfering tool for ML- and PB pipes

- Material: steel, plastic

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 25 | **762 101 125** | 0.252 |
| 32 | **762 101 132** | 0.323 |



### iFIT plastic pipe cutter
### For ML- and PB pipes d16-d32

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 16 - 32 | **762 101 117** | 0.386 |
| Spare blades | **762 101 118** | 0.005 |




### iFIT Chamfering tool to battery tools metal

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 25 | **762 101 353** | 0.252 |
| 32 | **762 101 354** | 0.323 |



### iFIT Grab rail set metal

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 16 - 32 | **762 101 361** | 0.050 |

# ABS System



## Your benefits

+ **Easy installation – reduced time on site**
+ **Lighweight**
+ **No corrosion**
+ **Low cost for installation equipment**

## Technical data

**Materials**
Media pipe: ABS

**Dimensions range**
d25 mm – d315 mm

**Jointing technology**
Solvent cementing, patented inside nipple

**Operating pressure**
d25 mm – d225 mm: 10 bar, SDR 17.6
d250 mm – d315 mm: 6 bar, SDR 26

**Operating temperature**
–40°C to 60°C

The value above listed are to be considered for water, in case of use chemical addition it is always recommended to contact GF specialist to an individual and more detailed assessment.

## Pressure-temperature diagram for ABS

The following two pressure-temperature diagrams for ABS pipe and fittings are valid for a service life of 25 years.

The design factor of 2.1 for British systems and 1.8 for metric systems recommended by GF Piping Systems has been incorporated.

The diagram can be used for water or media resembling water, in other words, media that have no reduction factor for their chemical resistance.

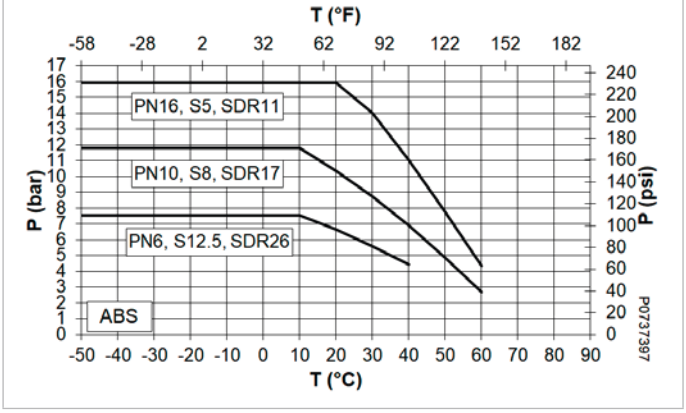
**Please take into account the pressure-temperature diagrams for valves and special fittings. Because of the construction and/or sealing material used, differences are possible when compared to pipe and fittings. More information is available in the Planning Fundamentals of the relevant types of valves and special fittings.**

**The influence of the anti-freeze compound has to be taken into account when calculating the allowable operating pressure. Contact your authorized GF Piping Systems representative for additional information.**

**According to the 10 °C curve in the long-term behavior for ABS, the following information applies to the temperature range from -50 °C to +10 °C:**

| System | PN6 | PN10 | PN16 |
|---|---|---|---|
| Permissible pressure | 7.5 bar | 11.8 bar | Max. 16 bar |

**Metric systems**

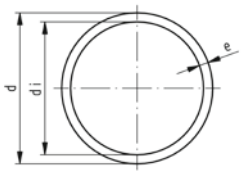



P Permissible pressure (bar, psi)
T Temperature (°C, °F)

| Table of contents | | Page |
|---|---|---|
|  | ABS pipes | 352 |
|  | ABS fittings | 353 |
|  | ABS unions | 358 |
|  | ABS union spare parts | 361 |
|  | ABS flange adaptors | 362 |
|  | ABS branch saddles | 363 |

# ABS pipes
## Metric pipes





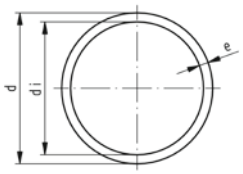

### Pipe ABS metric
### Nominal pressure PN16 (at 20°C)

**Model:**

- Colour: RAL 7001, gravel grey
- Длина: 10 м
- Minimum order quantity: 1 length
- PN6 (90PSI) / PN10 (150PSI) / PN16 (240PSI) at 20°C (68°F)

| d (mm) | PN (bar) | Code | Weight (kg/m) | e (inch) | di (inch) | closest inch (inch) | Copper size (inch) |
|---|---|---|---|---|---|---|---|
| 20 | 16 | **169 017 081** | 0.152 | 0.091 | 0.61 | ½ | ⅝ |
| 25 | 16 | **169 017 082** | 0.195 | 0.091 | 0.80 | ¾ | ⅞ |
| 32 | 16 | **700 262 397** | 0.820 | 0.114 | 1.03 | 1 | 1 ⅛ |
| 40 | 16 | **700 262 398** | 1.210 | 0.146 | 1.28 | 1 ¼ | 1 ⅜ |






### Pipe ABS metric
### Nominal pressure PN10 (at 20°C)

**Model:**

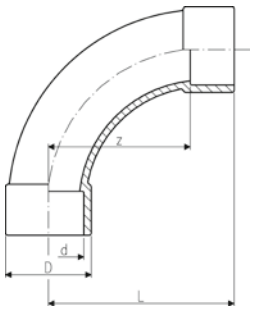
- Colour: RAL 7001, gravel grey
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

| d (mm) | PN (bar) | Code | Weight (kg/m) | e (mm) | di (mm) | Copper size (inch) | closest inch (inch) |
|---|---|---|---|---|---|---|---|
| 32 | 10 | **169 017 083** | 0.213 | 1.9 | 28.2 | 1 ⅛ | 1 |
| 40 | 10 | **169 017 084** | 0.337 | 2.4 | 35.2 | 1 ⅜ | 1 ¼ |
| 50 | 10 | **169 017 085** | 0.526 | 3.0 | 44.0 | 1 ⅝ | 1 ½ |
| 63 | 10 | **169 017 086** | 0.839 | 3.8 | 55.4 | 2 ⅛ | 2 |
| 75 | 10 | **169 017 087** | 1.183 | 4.5 | 66.0 | 2 ⅝ | 2 ½ |
| 90 | 10 | **169 017 088** | 1.704 | 5.4 | 79.2 | 3 ⅛ | 3 |
| 110 | 10 | **169 017 089** | 2.546 | 6.6 | 96.8 | 4 ⅛ | 4 |
| 140 | 10 | **169 017 091** | 4.489 | 8.3 | 123.4 | | 5 |
| 160 | 10 | **169 017 092** | 5.856 | 9.5 | 141.0 | 6 | 6 |
| 200 | 10 | **169 017 093** | 9.133 | 12.3 | 175.4 | | 8 |
| 225 | 10 | **169 017 094** | 11.605 | 13.9 | 197.2 | | 9 |

# ABS fittings

## Pipe fittings for solvent cement jointing



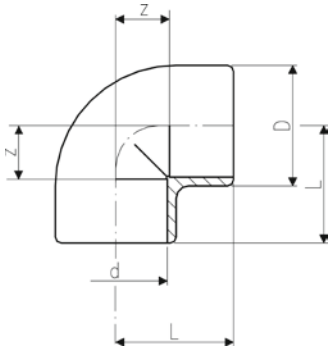




### Bend 90° ABS metric

- Radius = 2 d

| d (mm) | Size (inch) | PN (bar) | Code | Weight (lb) | D (mm) | L (mm) | z (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|
| 20 | | 16 | **729 000 106** | 0.060 | 27 | 58 | 40 | ½ |
| 25 | | 16 | **729 000 107** | 0.086 | 35 | 69 | 50 | ¾ |
| 32 | | 10 | **729 000 108** | 0.123 | 38 | 86 | 64 | 1 |
| 40 | | 10 | **729 000 109** | 0.218 | 54 | 109 | 80 | 1 ¼ |
| 50 | | 10 | **729 000 110** | 0.505 | 61 | 131 | 100 | 1 ½ |
| 63 | | 10 | **729 000 111** | 0.862 | 76 | 164 | 126 | 2 |
| 75 | 2 ½ | 10 | **729 000 112** | 1.312 | 90 | 194 | 150 | 2 ½ |
| 90 | | 10 | **729 000 113** | 2.302 | 113 | 231 | 180 | 3 |
| 110 | | 10 | **729 000 114** | 4.632 | 137 | 281 | 220 | 4 |
| 140 | 5 | 10 | **729 000 116** | 8.810 | 168 | 356 | 280 | 5 |



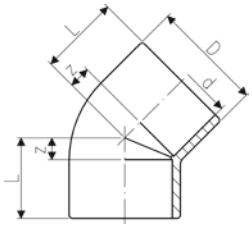



### Elbow 90° ABS metric

- >d225 - maximum operating temperature: +40°C

| d (mm) | Size (inch) | PN (bar) | Code | Weight (lb) | D (mm) | L (mm) | z (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|
| 20 | | 16 | **729 100 106** | 0.022 | 26 | 27 | 11 | ½ |
| 25 | | 16 | **729 100 107** | 0.040 | 31 | 33 | 14 | ¾ |
| 32 | | 10 | **729 100 108** | 0.073 | 40 | 39 | 17 | 1 |
| 40 | | 10 | **729 100 109** | 0.121 | 49 | 47 | 21 | 1 ¼ |
| 50 | | 10 | **729 100 110** | 0.216 | 61 | 57 | 26 | 1 ½ |
| 63 | | 10 | **729 100 111** | 0.410 | 76 | 72 | 33 | 2 |
| 75 | 2 ½ | 10 | **729 100 112** | 0.661 | 90 | 84 | 40 | 2 ½ |
| 90 | | 10 | **729 100 113** | 0.952 | 110 | 97 | 46 | 3 |
| 110 | | 10 | **729 100 114** | 1.695 | 136 | 116 | 55 | 4 |
| 140 | 5 | 10 | **729 100 116** | 2.773 | 162 | 146 | 70 | 5 |
| 160 | | 10 | **729 100 117** | 4.870 | 185 | 166 | 80 | 6 |
| 200 | | 10 | **729 100 119** | 7.434 | 225 | 207 | 101 | 8 |



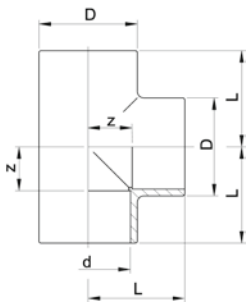



## Elbow 45° ABS metric

- >d225 - maximum operating temperature: +40°C

| d (mm) | Size (inch) | PN (bar) | Code | Weight (lb) | z (mm) | D (mm) | L (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|
| 20 | | 16 | **729 150 106** | 0.020 | 5 | 25 | 21 | ½ |
| 25 | | 16 | **729 150 107** | 0.029 | 6 | 31 | 25 | ¾ |
| 32 | | 10 | **729 150 108** | 0.057 | 8 | 40 | 30 | 1 |
| 40 | | 10 | **729 150 109** | 0.097 | 10 | 49 | 36 | 1 ¼ |
| 50 | | 10 | **729 150 110** | 0.174 | 12 | 61 | 43 | 1 ½ |
| 63 | | 10 | **729 150 111** | 0.315 | 14 | 76 | 52 | 2 |
| 75 | 2 ½ | 10 | **729 150 112** | 0.496 | 17 | 89 | 61 | 2 ½ |
| 90 | | 10 | **729 150 113** | 0.800 | 20 | 107 | 71 | 3 |
| 110 | | 10 | **729 150 114** | 1.250 | 28 | 131 | 89 | 4 |
| 140 | 5 | 10 | **729 150 116** | 2.590 | 32 | 162 | 108 | 5 |
| 160 | | 10 | **729 150 117** | 3.777 | 36 | 185 | 122 | 6 |
| 200 | | 10 | **729 150 119** | 5.613 | 43 | 225 | 149 | 8 |
| 225 | | 10 | **729 150 120** | 6.971 | 49 | 250 | 168 | 8 |



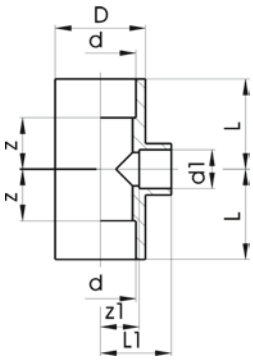



## Tee 90° ABS metric

- >d225 - maximum operating temperature: +40°C

| d (mm) | PN (bar) | Size (inch) | Code | Weight (lb) | z (mm) | D (mm) | L (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|
| 20 | 16 | | **729 200 106** | 0.033 | 11 | 25 | 27 | ½ |
| 25 | 16 | | **729 200 107** | 0.055 | 14 | 31 | 33 | ¾ |
| 32 | 10 | | **729 200 108** | 0.093 | 17 | 40 | 39 | 1 |
| 40 | 10 | | **729 200 109** | 0.172 | 21 | 49 | 47 | 1 ¼ |
| 50 | 10 | | **729 200 110** | 0.295 | 26 | 61 | 57 | 1 ½ |
| 63 | 10 | | **729 200 111** | 0.562 | 34 | 76 | 72 | 2 |
| 75 | 10 | 2 ½ | **729 200 112** | 0.891 | 40 | 90 | 84 | 2 ½ |
| 90 | 10 | | **729 200 113** | 1.464 | 47 | 107 | 98 | 3 |
| 110 | 10 | | **729 200 114** | 2.227 | 55 | 133 | 116 | 4 |
| 140 | 10 | 5 | **729 200 116** | 5.666 | 71 | 169 | 147 | 5 |
| 160 | 10 | | **729 200 117** | 8.272 | 81 | 193 | 167 | 6 |
| 200 | 10 | | **729 200 119** | 9.802 | 101 | 225 | 207 | 8 |
| 225 | 10 | | **729 200 120** | 15.124 | 114 | 256 | 233 | 8 |

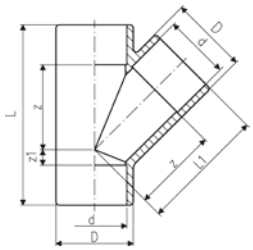





## Tee 90° reducing ABS metric

| d (mm) | d1 (mm) | PN (bar) | Size (inch) | Code | Weight (lb) | z1 (mm) | z (mm) | L (mm) | L1 (mm) | D (mm) | Closest inch run-branch-run (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 20 | 16 | | **729 200 134** | 0.066 | 14 | 14 | 33 | 30 | 33 | ¾ - ½ - ¾ |
| 32 | 25 | 10 | | **729 200 138** | 0.108 | 17 | 17 | 39 | 36 | 41 | 1 - ¾ - 1 |
| 40 | 25 | 10 | | **729 200 151** | 0.183 | 23 | 23 | 49 | 42 | 50 | 1 ¼ - ¾ - 1 ¼ |
| 40 | 32 | 10 | | **729 200 147** | 0.187 | 23 | 23 | 49 | 45 | 50 | 1 ¼ - 1 - 1 ¼ |
| 50 | 25 | 10 | | **729 200 010** | 0.304 | 28 | 28 | 59 | 47 | 62 | 1 ½ - ¾ - 1 ½ |
| 50 | 32 | 10 | | **729 200 164** | 0.311 | 28 | 28 | 59 | 50 | 62 | 1 ½ - 1 - 1 ½ |
| 63 | 25 | 10 | | **729 200 011** | 0.542 | 34 | 34 | 73 | 53 | 77 | 2 - ¾ - 2 |
| 63 | 32 | 10 | | **729 200 178** | 0.564 | 34 | 35 | 73 | 56 | 77 | 2 - 1 - 2 |
| 63 | 50 | 10 | | **729 200 170** | 0.595 | 34 | 35 | 73 | 65 | 77 | 2 - 1 ½ - 2 |

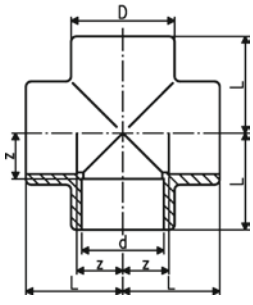





## Tee 45° ABS metric

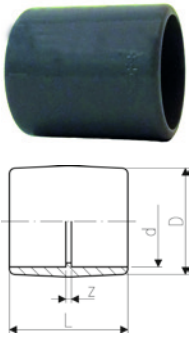
| d (mm) | PN (bar) | Size (inch) | Code | Weight (lb) | D (mm) | L (mm) | L1 (mm) | closest inch (inch) | z (mm) | z1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 10 | | **729 250 106** | 0.060 | 28 | 68 | 46 | ½ | 30 | 6 |
| 25 | 10 | | **729 250 107** | 0.095 | 33 | 83 | 55 | ¾ | 36 | 9 |
| 32 | 10 | | **729 250 108** | 0.161 | 41 | 99 | 67 | 1 | 45 | 10 |
| 40 | 10 | | **729 250 109** | 0.271 | 50 | 118 | 82 | 1 ¼ | 56 | 10 |
| 50 | 10 | | **729 250 110** | 0.445 | 60 | 140 | 97 | 1 ½ | 66 | 12 |
| 63 | 10 | | **729 250 111** | 0.736 | 74 | 175 | 123 | 2 | 85 | 14 |
| 75 | 6 | 2 ½ | **729 250 112** | 1.334 | 91 | 207 | 145 | 2 ½ | 101 | 18 |
| 90 | 6 | | **729 250 113** | 2.119 | 107 | 245 | 173 | 3 | 122 | 20 |
| 110 | 6 | | **729 250 114** | 4.204 | 134 | 298 | 210 | 4 | 149 | 27 |






## Cross ABS metric

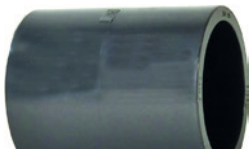
| d (mm) | PN (bar) | Code | Weight (lb) | closest inch (inch) | z (mm) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|---|
| 32 | 10 | **729 300 108** | 0.154 | 1 | 17 | 43 | 39 |
| 63 | 10 | **729 300 111** | 0.791 | 2 | 34 | 79 | 72 |
| 90 | 10 | **729 300 113** | 2.066 | 3 | 48 | 106 | 97 |



## Socket ABS metric

- >d225 - maximum operating temperature: +40°C

| d (mm) | PN (bar) | Code | Weight (lb) | D (mm) | L (mm) | z (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|
| 20 | 16 | **729 910 106** | 0.015 | 26 | 35 | 3 | ½ |
| 25 | 16 | **729 910 107** | 0.026 | 32 | 41 | 3 | ¾ |
| 32 | 10 | **729 910 108** | 0.044 | 40 | 47 | 3 | 1 |
| 40 | 10 | **729 910 109** | 0.077 | 49 | 55 | 3 | 1 ¼ |
| 50 | 10 | **729 910 110** | 0.132 | 61 | 65 | 3 | 1 ½ |
| 63 | 10 | **729 910 111** | 0.243 | 76 | 79 | 3 | 2 |
| 75 | 10 | **729 910 112** | 0.320 | 87 | 92 | 4 | 2 ½ |
| 90 | 10 | **729 910 113** | 0.531 | 104 | 107 | 5 | 3 |
| 110 | 10 | **729 910 114** | 1.248 | 131 | 132 | 5 | 4 |
| 140 | 10 | **729 910 116** | 1.792 | 162 | 159 | 7 | 5 |
| 160 | 10 | **729 910 117** | 2.593 | 183 | 180 | 8 | 6 |
| 200 | 10 | **729 910 119** | 3.331 | 221 | 221 | 9 | 8 |
| 225 | 10 | **729 910 120** | 5.593 | 253 | 248 | 10 | 8 |



## Adaptor socket ABS metric BS

**Model:**

- With BS Inch and metric solvent cement sockets

| d (inch) | d (mm) | Size (inch) | PN (bar) | Code | Weight (kg) | D (mm) | L (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| ½ | 20 | ½ | 10 | **729 913 106** | 0.010 | 27 | 38 | 5 |
| ¾ | 25 | ¾ | 10 | **729 913 107** | 0.016 | 33 | 45 | 5 |
| 1 | 32 | 1 | 10 | **729 913 108** | 0.025 | 41 | 51 | 5 |
| 1 ¼ | 40 | 1 ¼ | 10 | **729 913 109** | 0.045 | 51 | 60 | 5 |
| 1 ½ | 50 | 1 ½ | 10 | **729 913 110** | 0.070 | 59 | 65 | 4 |
| 2 | 63 | 2 | 10 | **729 913 111** | 0.130 | 75 | 79 | 5 |
| 2 ½ | 75 | 2 ½ | 10 | **729 910 112** | 0.145 | 87 | 92 | 4 |
| 3 | 90 | 3 | 10 | **729 913 113** | 0.365 | 104 | 108 | 6 |
| 4 | 110 | 4 | 10 | **729 913 115** | 0.630 | 134 | 135 | 7 |



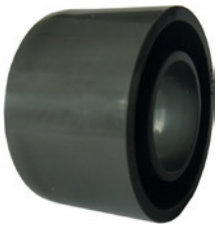
## Barrel nipple ABS metric

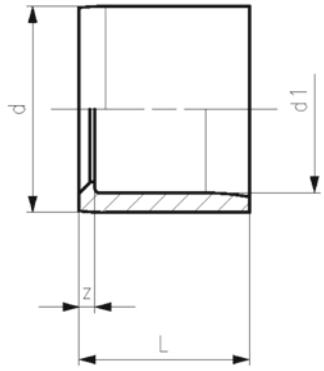
**Model:**

- For the shortest possible distance between fittings
- Overall length L = 2 x socket length
- With solvent cement spigots on both sides

| d (mm) | PN (bar) | Size (inch) | Code | Weight (lb) | L (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|
| 20 | 16 | | **729 900 906** | 0.018 | 32 | ½ |
| 25 | 16 | | **729 900 907** | 0.018 | 38 | ¾ |
| 32 | 10 | | **729 900 908** | 0.015 | 44 | 1 |
| 40 | 10 | | **729 900 909** | 0.035 | 52 | 1 ¼ |
| 50 | 10 | | **729 900 910** | 0.071 | 62 | 1 ½ |
| 63 | 10 | | **729 900 911** | 0.130 | 76 | 2 |
| 75 | 10 | 2 ½ | **729 900 912** | 0.209 | 88 | 2 ½ |
| 90 | 10 | | **729 900 913** | 0.355 | 102 | 3 |
| 110 | 10 | | **729 900 914** | 0.622 | 122 | 4 |







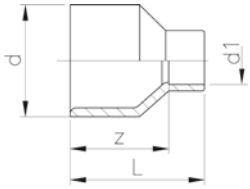

## Reducing bush ABS metric

**Model:**

- With solvent cement spigot and socket metric

| d (mm) | d1 (mm) | PN (bar) | Size (inch) | Code | Weight (lb) | z (mm) | L (mm) |
|---|---|---|---|---|---|---|---|
| 25 | 20 | 16 | | **729 900 337** | 0.011 | 3 | 19 |
| 32 | 20 | 10 | | **729 900 342** | 0.024 | 6 | 22 |
| 32 | 25 | 10 | | **729 900 341** | 0.018 | 4 | 22 |
| 40 | 20 | 10 | | **729 900 348** | 0.035 | 10 | 26 |
| 40 | 25 | 10 | | **729 900 347** | 0.035 | 7 | 26 |
| 40 | 32 | 10 | | **729 900 346** | 0.026 | 4 | 26 |
| 50 | 20 | 10 | | **729 900 355** | 0.057 | 15 | 31 |
| 50 | 25 | 10 | | **729 900 354** | 0.024 | 12 | 31 |
| 50 | 32 | 10 | | **729 900 353** | 0.077 | 9 | 31 |
| 50 | 40 | 10 | | **729 900 352** | 0.049 | 5 | 31 |
| 63 | 32 | 10 | | **729 900 360** | 0.132 | 16 | 38 |
| 63 | 40 | 10 | | **729 900 359** | 0.112 | 12 | 38 |
| 63 | 50 | 10 | | **729 900 358** | 0.095 | 7 | 36 |
| 75 | 50 | 10 | 2 ½ | **729 900 365** | 0.181 | 13 | 44 |
| 75 | 63 | 10 | 2 ½ | **729 900 364** | 0.134 | 7 | 44 |
| 90 | 50 | 10 | | **729 900 372** | 0.315 | 20 | 51 |
| 90 | 63 | 10 | | **729 900 371** | 0.284 | 14 | 51 |
| 90 | 75 | 10 | | **729 900 370** | 0.220 | 7 | 51 |
| 110 | 63 | 10 | | **729 900 378** | 0.509 | 24 | 61 |
| 110 | 90 | 10 | | **729 900 376** | 0.432 | 10 | 61 |
| 125 | 110 | 10 | | **700 244 660** | 0.785 | 8 | 69 |
| 140 | 110 | 10 | 5 | **729 900 385** | 1.012 | 15 | 76 |
| 160 | 110 | 10 | | **729 900 390** | 1.459 | 25 | 86 |
| 160 | 140 | 10 | | **729 900 388** | 0.904 | 10 | 86 |
| 200 | 160 | 10 | | **729 900 392** | 1.808 | 20 | 106 |
| 225 | 160 | 10 | | **729 900 396** | 3.640 | 33 | 119 |
| 225 | 200 | 10 | | **729 900 181** | 2.244 | 13 | 119 |





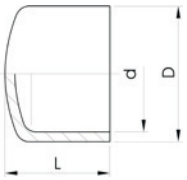

## Reducing bush long ABS metric

**Model:**

- With solvent cement spigot and socket metric

| d (mm) | d1 (mm) | PN (bar) | Size (inch) | Code | Weight (lb) | z (mm) | L (mm) | Closest inch (inch) |
|---|---|---|---|---|---|---|---|---|
| 32 | 20 | 10 | | **729 910 342** | 0.031 | 30 | 46 | 1 - ½ |
| 40 | 25 | 10 | | **729 910 347** | 0.057 | 36 | 55 | 1 ¼ - ¾ |
| 50 | 25 | 10 | | **729 910 354** | 0.084 | 44 | 63 | 1 ½ - ¾ |
| 63 | 32 | 10 | | **729 910 360** | 0.170 | 54 | 76 | 2 - 1 |
| 75 | 40 | 10 | 2 ½ | **729 910 366** | 0.254 | 62 | 88 | 2 ½ - 1 ¼ |
| 90 | 63 | 10 | | **729 910 371** | 0.474 | 74 | 112 | 3 - 2 |

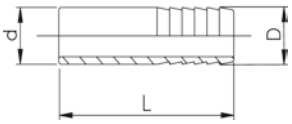





### Cap ABS metric

| d (mm) | PN (bar) | Code | Weight (lb) | closest inch (inch) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|
| 20 | 16 | **729 960 106** | 0.015 | ½ | 30 | 25 |
| 25 | 16 | **729 960 107** | 0.029 | ¾ | 37 | 30 |
| 32 | 10 | **729 960 108** | 0.042 | 1 | 44 | 34 |
| 40 | 10 | **729 960 109** | 0.075 | 1 ¼ | 55 | 41 |
| 50 | 10 | **729 960 110** | 0.101 | 1 ½ | 64 | 44 |
| 63 | 10 | **729 960 111** | 0.194 | 2 | 80 | 54 |
| 75 | 10 | **729 960 112** | 0.254 | 2 ½ | 87 | 65 |
| 90 | 10 | **729 960 113** | 0.481 | 3 | 112 | 77 |
| 110 | 10 | **729 960 114** | 1.100 | 4 | 145 | 101 |
| 140 | 10 | **729 960 116** | 1.940 | 5 | 163 | 114 |
| 160 | 10 | **729 960 117** | 2.513 | 6 | 188 | 130 |






### Hose connector ABS metric

**Model:**

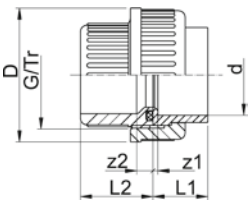
- With solvent cement spigot metric and parallel hose connection

| d (mm) | PN (bar) | Code | Weight (lb) | closest inch (inch) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|
| 20 | 10 | **729 960 406** | 0.026 | ½ | 20 | 73 |
| 25 | 10 | **729 960 407** | 0.033 | ¾ | 25 | 79 |
| 32 | 10 | **729 960 408** | 0.060 | 1 | 30 | 89 |
| 32 | 10 | **729 960 508** | 0.060 | 1 | 32 | 89 |
| 40 | 10 | **729 960 409** | 0.057 | 1 ¼ | 40 | 100 |

# ABS unions

## Unions






### Union ABS metric

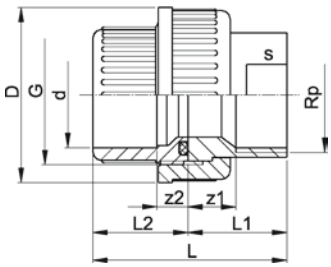
**Model:**

- Union End: Solvent cement socket metric
- Union bush: Solvent cement socket metric
- Gasket: O-ring EPDM code no. 748 410 006-016

| d (mm) | Size (inch) | PN (bar) | Code | Weight (kg) | L1 (mm) | D (mm) | L2 (mm) | z1 (mm) | z2 (mm) | closest inch (inch) | G/Tr (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | | 10 | **729 510 106** | 0.035 | 21 | 43 | 26 | 4 | 10 | ½ | 1 |
| 25 | | 10 | **729 510 107** | 0.044 | 24 | 53 | 29 | 5 | 10 | ¾ | 1 1/4 |
| 32 | | 10 | **729 510 108** | 0.064 | 27 | 60 | 33 | 5 | 10 | 1 | 1 1/2 |
| 40 | | 10 | **729 510 109** | 0.130 | 31 | 74 | 39 | 3 | 12 | 1 ¼ | 2 |
| 50 | | 10 | **729 510 110** | 0.154 | 33 | 83 | 46 | 3 | 14 | 1 ½ | 2 1/4 |
| 63 | | 10 | **729 510 111** | 0.258 | 40 | 103 | 58 | 3 | 18 | 2 | 2 3/4 |
| 75 | 2 ½ | 10 | **729 510 112** | 0.469 | 47 | 135 | 62 | 3 | 18 | 2 ½ | Tr 108x5 |
| 90 | | 10 | **729 510 313** | 0.701 | 56 | 158 | 69 | 5 | 18 | 3 | Tr 128x5 |
| 110 | | 10 | **729 510 114** | 1.069 | 66 | 158 | 72 | 5 | 11 | 4 | Tr 154x5 |

# Adaptor Unions






## Adaptor union ABS metric stainless steel Rp

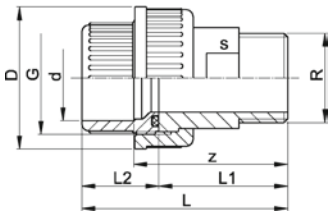
**Model:**

- Union Nut: ABS
- Union Bush: Solvent cement socket ABS metric
- Union End: Stainless Steel WN 1.4404 (316L), parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 006-011

| d (mm) | Thread Type | Size (inch) | PN (bar) | EPDM Code | Weight (kg) |
|---|---|---|---|---|---|
| 20 | Rp | ½ | 10 | **729 540 206** | 0.096 |
| 25 | Rp | ¾ | 10 | **729 540 207** | 0.154 |
| 32 | Rp | 1 | 10 | **729 540 208** | 0.212 |
| 40 | Rp | 1 ¼ | 10 | **729 540 209** | 0.356 |
| 50 | Rp | 1 ½ | 10 | **729 540 210** | 0.443 |
| 63 | Rp | 2 | 10 | **729 540 211** | 0.721 |

| d (mm) | z1 (mm) | z2 (mm) | D (mm) | L (mm) | L1 (mm) | L2 (mm) | G (inch) | s (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | 11 | 10 | 43 | 50 | 24 | 26 | 1 | 24 |
| 25 | 11 | 10 | 51 | 55 | 26 | 29 | 1 1/4 | 29 |
| 32 | 12 | 10 | 58 | 61 | 29 | 33 | 1 1/2 | 36 |
| 40 | 14 | 12 | 74 | 71 | 33 | 39 | 2 | 45 |
| 50 | 15 | 14 | 83 | 79 | 34 | 46 | 2 1/4 | 54 |
| 63 | 15 | 18 | 100 | 95 | 39 | 58 | 2 3/4 | 63 |





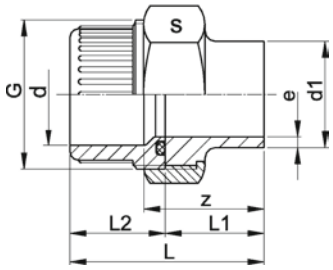

## Adaptor union ABS metric stainless steel R

**Model:**

- Union Nut: ABS
- Union Bush: Solvent cement socket ABS metric
- Union End: Stainless Steel WN 1.4404 (316L), taper male thread R
- Gasket: O-ring EPDM code no. 748 410 006-011

| d (mm) | Thread Type | Size (inch) | PN (bar) | EPDM Code | Weight (kg) | z (mm) | D (mm) | L (mm) | L1 (mm) | L2 (mm) | G (inch) | s (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | R | ½ | 10 | **729 540 706** | 0.106 | 44 | 43 | 60 | 34 | 26 | 1 | 24 |
| 25 | R | ¾ | 10 | **729 540 707** | 0.174 | 46 | 51 | 65 | 36 | 29 | 11/4 | 32 |
| 32 | R | 1 | 10 | **729 540 708** | 0.262 | 50 | 58 | 72 | 40 | 33 | 11/2 | 37 |
| 40 | R | 1 ¼ | 10 | **729 540 709** | 0.476 | 58 | 74 | 84 | 46 | 39 | 2 | 48 |
| 50 | R | 1 ½ | 10 | **729 540 710** | 0.535 | 62 | 83 | 93 | 48 | 46 | 21/4 | 54 |
| 63 | R | 2 | 10 | **729 540 711** | 0.861 | 73 | 100 | 111 | 55 | 58 | 23/4 | 69 |



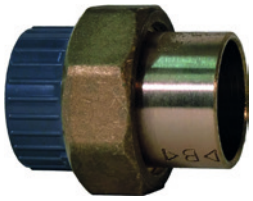


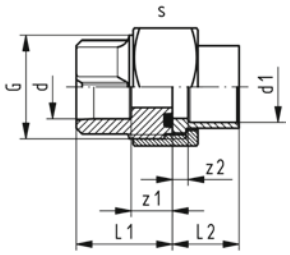

## Adaptor union ABS metric stainless steel welding end

**Model:**

- Union End: Stainless Steel WN 1.4404 (316L) with welding end
- Union Bush: Solvent cement socket ABS metric
- Union Nut: Stainless Steel WN 1.4404 (316L)
- Gasket: O-ring EPDM code no. 748 410 006-011

| d (mm) | PN (bar) | d1 (mm) | EPDM Code | Weight (kg) | z (mm) | L (mm) | L1 (mm) | L2 (mm) | e (mm) | G (inch) | s (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 10 | 21 | **729 545 506** | 0.176 | 32 | 48 | 22 | 26 | 2.0 | 1 | 41 |
| 32 | 10 | 34 | **729 545 508** | 0.313 | 36 | 58 | 26 | 33 | 2.0 | 1 1/2 | 55 |
| 40 | 10 | 42 | **729 545 509** | 0.493 | 38 | 64 | 26 | 39 | 2.0 | 2 | 68 |
| 50 | 10 | 48 | **729 545 510** | 0.566 | 42 | 73 | 28 | 46 | 2.0 | 2 1/4 | 74 |
| 63 | 10 | 60 | **729 545 511** | 0.902 | 50 | 88 | 32 | 58 | 2.6 | 2 3/4 | 88 |





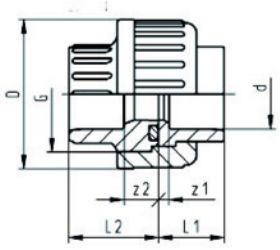

## Adaptor union ABS metric copper for soldering

**Model:**

- Union End: Copper
- Union Bush: Solvent cement socket ABS metric
- Union Nut: brass
- Gasket: O-ring EPDM code no. 748 410 006-011

| d (mm) | PN (bar) | d1 (mm) | Code | Weight (kg) | L1 (mm) | L2 (mm) | z1 (mm) | z2 (mm) | G (inch) | s (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 10 | 22 | **720 510 106** | 0.140 | 26 | 19 | 9 | 3 | 1 | 40 |
| 25 | 10 | 28 | **720 510 107** | 0.269 | 29 | 28 | 9 | 6 | 1 1/4 | 50 |
| 40 | 10 | 42 | **720 510 109** | 0.350 | 39 | 35 | 12 | 6 | 2 | 66 |
| 50 | 10 | 54 | **720 510 110** | 0.438 | 46 | 46 | 14 | 3 | 2 1/4 | 72 |





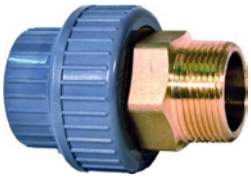

## Adaptor union ABS metric brass Rp

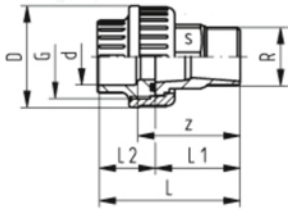
**Model:**

- Union Nut: ABS
- Union Bush: Solvent cement socket ABS metric
- Union End: Brass with parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 006-011

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) |
|---|---|---|---|---|---|
| 20 | Rp | ½ | 10 | **729 550 506** | 0.084 |
| 25 | Rp | ¾ | 10 | **729 550 507** | 0.134 |
| 32 | Rp | 1 | 10 | **729 550 508** | 0.179 |
| 40 | Rp | 1 ¼ | 10 | **729 550 509** | 0.327 |
| 50 | Rp | 1 ½ | 10 | **729 550 510** | 0.452 |
| 63 | Rp | 2 | 10 | **729 550 511** | 0.674 |

| d (mm) | z1 (mm) | s (mm) | L2 (mm) | L (mm) | G (inch) | z2 (mm) | D (mm) | L1 (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | 7 | 25 | 26 | 48 | 1 | 10 | 43 | 22 |
| 25 | 9 | 30 | 29 | 54 | 1 1/4 | 11 | 51 | 25 |
| 32 | 8 | 36 | 33 | 60 | 1 1/2 | 11 | 58 | 27 |
| 40 | 10 | 48 | 39 | 70 | 2 | 13 | 72 | 31 |
| 50 | 14 | 55 | 46 | 81 | 2 1/4 | 21 | 83 | 35 |
| 63 | 14 | 65 | 58 | 98 | 2 3/4 | 21 | 100 | 40 |






### Adaptor union ABS metric brass R

**Model:**

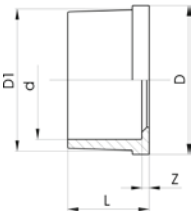
- Union Nut: ABS
- Union Bush: Solvent cement socket ABS metric
- Union End: Brass with taper male thread R
- Gasket: O-ring EPDM code no. 748 410 006-011

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | D (mm) | L (mm) | L1 (mm) | L2 (mm) | z (mm) | G (inch) | s (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | R | ½ | 10 | **729 550 906** | 0.123 | 43 | 63 | 37 | 26 | 47 | 1 | 25 |
| 25 | R | ½ | 10 | **729 550 957** | 0.185 | 51 | 66 | 37 | 29 | 48 | 1 1/4 | 30 |
| 25 | R | ¾ | 10 | **729 550 907** | 0.175 | 51 | 71 | 42 | 29 | 52 | 1 1/4 | 30 |
| 25 | R | 1 | 10 | **729 550 967** | 0.293 | 51 | 75 | 46 | 29 | 57 | 1 1/4 | 30 |
| 32 | R | ½ | 10 | **729 550 958** | 0.283 | 58 | 70 | 37 | 33 | 48 | 1 1/2 | 36 |
| 32 | R | ¾ | 10 | **729 550 968** | 0.283 | 58 | 75 | 42 | 33 | 53 | 1 1/2 | 36 |
| 32 | R | 1 | 10 | **729 550 908** | 0.374 | 58 | 79 | 46 | 33 | 57 | 1 1/2 | 36 |
| 40 | R | 1 ¼ | 10 | **729 550 909** | 0.503 | 72 | 91 | 52 | 39 | 65 | 2 | 46 |
| 50 | R | 1 ½ | 10 | **729 550 910** | 0.640 | 83 | 102 | 56 | 46 | 71 | 2 1/4 | 55 |
| 63 | R | 2 | 10 | **729 550 911** | 1.019 | 100 | 125 | 67 | 58 | 87 | 2 3/4 | 65 |

# ABS union spare parts

## Union spare parts





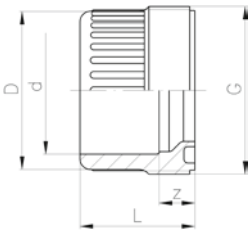

### Union end ABS metric

**Model:**

- Solvent cement socket metric
- For union 729 510 106-114, 729 510 156-164

| d (mm) | Size (inch) | PN (bar) | Code | Weight (lb) | z (mm) | L (mm) | D (mm) | D1 (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|
| 20 | | 10 | **729 800 106** | 0.015 | 4 | 21 | 30 | 28 | ½ |
| 25 | | 10 | **729 800 107** | 0.026 | 5 | 24 | 39 | 36 | ¾ |
| 32 | | 10 | **729 800 108** | 0.035 | 5 | 27 | 44 | 41 | 1 |
| 40 | | 10 | **729 800 109** | 0.093 | 3 | 31 | 57 | 53 | 1 ¼ |
| 50 | | 10 | **729 800 110** | 0.099 | 3 | 34 | 63 | 59 | 1 ½ |
| 63 | | 10 | **729 800 111** | 0.185 | 3 | 41 | 78 | 74 | 2 |
| 75 | 2 ½ | 10 | **729 800 162** | 0.240 | 3 | 47 | 101 | 91 | 2 ½ |
| 90 | | 10 | **729 800 163** | 0.392 | 5 | 56 | 121 | 108 | 3 |
| 110 | | 10 | **729 800 164** | 0.650 | 5 | 66 | 146 | 131 | 4 |





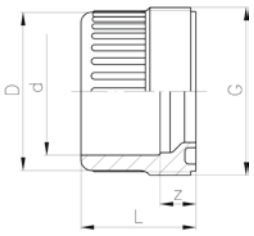

### Union bush ABS metric

**Model:**

- Solvent cement socket metric
- For union 729 510 106-114
- Jointing face: with O-ring groove

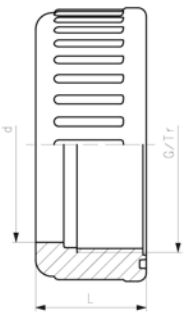
| d (mm) | PN (bar) | Code | Weight (lb) | z (mm) | D (mm) | L (mm) | G/Tr (inch) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|
| 20 | 10 | **729 840 106** | 0.024 | 10 | 28 | 26 | 1 | ½ |
| 25 | 10 | **729 840 107** | 0.035 | 10 | 33 | 29 | 1 1/4 | ¾ |
| 32 | 10 | **729 840 108** | 0.060 | 10 | 41 | 33 | 1 1/2 | 1 |
| 40 | 10 | **729 840 109** | 0.101 | 12 | 50 | 39 | 2 | 1 ¼ |
| 50 | 10 | **729 840 110** | 0.128 | 14 | 62 | 46 | 2 1/4 | 1 ½ |

table continued on the next page




| d (mm) | PN (bar) | Code | Weight (lb) | z (mm) | D (mm) | L (mm) | G/Tr (inch) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|
| 63 | 10 | **729 840 111** | 0.243 | 18 | 77 | 58 | 2 3/4 | 2 |
| 75 | 10 | **729 840 112** | 0.353 | 18 | 93 | 62 | Tr108x5 | 2 ½ |
| 90 | 10 | **729 840 123** | 0.604 | 18 | 110 | 69 | Tr128x5 | 3 |
| 110 | 10 | **729 840 114** | 0.728 | 11 | 133 | 72 | Tr154x6 | 4 |






### Union nut ABS

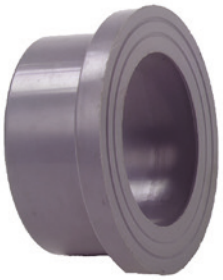
**Model:**

- For union 723 510 105-114

| d (mm) | Size (inch) | PN (bar) | Code | Weight (lb) | L (mm) | G/Tr (inch) | D (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|
| 16 | | 10 | **729 890 405** | 0.020 | 21 | 3/4 | | ⅜ |
| 20 | | 10 | **729 890 406** | 0.106 | 23 | 1 | 28 | ½ |
| 25 | | 10 | **729 890 407** | 0.101 | 25 | 1 1/4 | 36 | ¾ |
| 32 | | 10 | **729 890 408** | 0.055 | 27 | 1 1/2 | 42 | 1 |
| 40 | | 10 | **729 890 409** | 0.132 | 30 | 2 | 53 | 1 ¼ |
| 50 | | 10 | **729 890 410** | 0.220 | 34 | 2 1/4 | 59 | 1 ½ |
| 63 | | 10 | **729 890 411** | 0.324 | 38 | 2 3/4 | 74 | 2 |
| 75 | 2 ½ | 10 | **729 690 012** | 0.417 | 40 | Tr108x5 | 92 | 2 ½ |
| 90 | | 10 | **729 690 013** | 0.597 | 43 | Tr128x5 | 110 | 3 |
| 110 | | 10 | **729 690 014** | 0.948 | 48 | Tr154x6 | 133 | 4 |

# ABS flange adaptors

## Flange adaptor



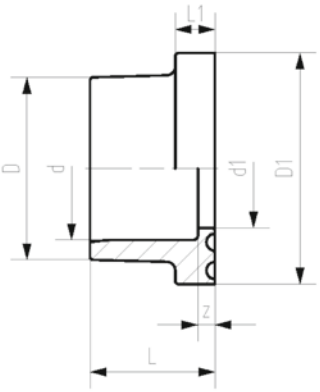
### Flange adaptor ABS metric

**Model:**

- Counter part: same flange adaptor
- Gasket: profile flange gasket EPDM code no. 748 440 706-723, FKM code no. 749 440 706-723
- Gasket: flat gasket EPDM code no. 748 400 306-323
- Joining faces flat/serrated
- >d225 - maximum operating temperature: +40°C

**Note:**

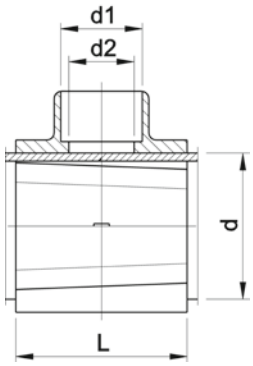
* bevel on pipe may be needed if used with butterfly valve type 037/038/039




| | d (mm) | DN (mm) | PN (bar) | d (inch) | Code | Weight (kg) | D (mm) | D1 (mm) | d1 (mm) | L (mm) | L1 (mm) | z (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20 | 15 | 10 | | **729 790 106** | 0.007 | 27 | 34 | 16 | 21 | 6 | 3 | ½ |
| | 25 | 20 | 10 | | **729 790 107** | 0.015 | 33 | 41 | 21 | 24 | 7 | 3 | ¾ |
| | 32 | 25 | 10 | | **729 790 108** | 0.020 | 41 | 50 | 28 | 27 | 7 | 3 | 1 |
| | 40 | 32 | 10 | | **729 790 109** | 0.028 | 50 | 61 | 36 | 30 | 8 | 3 | 1 ¼ |
| | 50 | 40 | 10 | | **729 790 110** | 0.038 | 61 | 73 | 45 | 34 | 8 | 3 | 1 ½ |
| | 63 | 50 | 10 | | **729 790 111** | 0.068 | 76 | 90 | 57 | 41 | 9 | 3 | 2 |
| | 75 | 65 | 10 | 2 ½ | **729 790 112** | 0.116 | 91 | 106 | 69 | 47 | 10 | 3 | 2 ½ |
| | 90 | 80 | 10 | | **729 790 113** | 0.185 | 108 | 125 | 82 | 56 | 11 | 5 | 3 |
| | 110 | 100 | 10 | | **729 790 114** | 0.305 | 131 | 150 | 102 | 66 | 12 | 5 | 4 |
| | 140 | 125 | 10 | 5 | **729 790 116** | 0.535 | 165 | 188 | 132 | 81 | 14 | 5 | 5 |
| * | 160 | 150 | 10 | | **729 790 117** | 0.821 | 188 | 213 | 152 | 91 | 16 | 5 | 6 |
| * | 200 | 200 | 10 | | **729 790 119** | 1.123 | 224 | 250 | 192 | 112 | 24 | 6 | 8 |
| | 225 | 200 | 10 | | **729 790 120** | 1.330 | 248 | 274 | 217 | 125 | 25 | 6 | 8 |

# ABS branch saddles






## Branch saddle ABS metric

**Model:**

- For ABS-pipes
- Outlet with solvent cement socket metric
- PN10
- Top saddle (ABS) for solvent cementing
- Bottom part and wedges made from PVC-U

| d (mm) | PN* (bar) | Code | Weight (kg) | d1 (mm) | d2 (mm) | Tapping-Ø (mm) | L (mm) |
|---|---|---|---|---|---|---|---|
| 90 | 1 | **169 110 056** | 0.786 | 50 | 40 | 39 | 105 |

# PVC-C metric



## Your benefits

+ **Increased temperature range**
+ **Very good chemical resistance**
+ **Low costs for installation equipment**
+ **Long support distances**

## Technical data

**Materials**
PVC-C

**Dimensions range**
16 mm to 255 mm (ISO/DIN) 1⁄4 to 24" (ANSI/ASTM)
Flanges and valve connections (JIS)

**Jointing technology**
Cementing

**Operating pressure**
Up to 16 bar

**Operating temperature**
0°C to 80°C

The value above listed are to be considered for water, in case of use chemical addition it is always recommended to contact GF specialist to an individual and more detailed assessment.

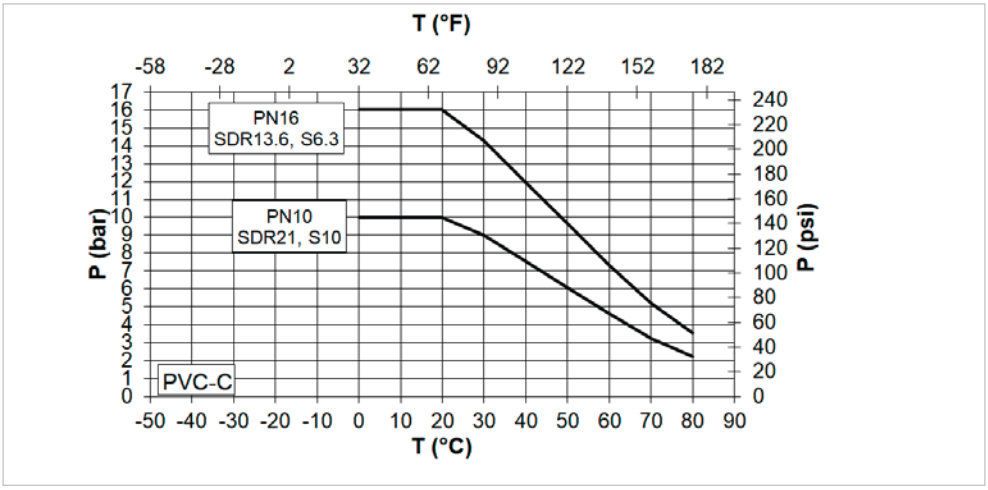
## Pressure-temperature diagram for PVC-C

The following pressure-temperature diagram for PVC-C pipe and fittings is valid for a service life of 25 years.

The design factor recommended by GF Piping Systems has been incorporated. It can be used for water or media resembling water, in other words, media that have no reduction factor for chemical resistance.

**Please take into account the pressure-temperature diagrams for valves and special fittings. Because of the construction and/or sealing material used, differences are possible when compared to pipe and fittings. More information is available in the Planning Fundamentals of the relevant types of valves and special fittings.**

Under certain conditions, working temperatures up to 90 °C are possible for limited times. Please contact your GF Piping Systems representative for advice on applications beyond GF Piping Systems' specifications.

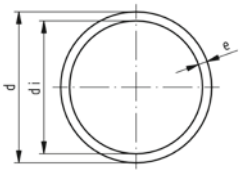



P Permissible pressure (bar, psi)
T Temperature (°C, °F)

| Table of contents | | Page |
|---|---|---|
|  | Pipes | 368 |
|  | Fittings | 369 |
|  | Adaptor fittings | 374 |
|  | Unions | 377 |
|  | Flange adaptors | 388 |
|  | PVC-C accessories | 388 |

# Pipes





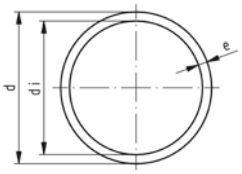

## Pipe PVC-C grey SDR9/PN25/S4

**Model:**

- Material: PVC-C, heat resistant
- Dimension: acc. to DIN 8079/80
- Colour: agate grey RAL 7038
- Pipe length: 5000mm, with plain ends
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

| Note | d (mm) | SDR | PN (bar) | Code | Weight (kg/m) | e (mm) |
|---|---|---|---|---|---|---|
| | 16 | 9 | 25 | **163 017 130** | 0.136 | 1.8 |
| | 20 | 9 | 25 | **163 017 131** | 0.217 | 2.3 |
| | 25 | 9 | 25 | **163 017 132** | 0.326 | 2.8 |
| | 32 | 9 | 25 | **163 017 143** | 0.534 | 3.6 |
| | 40 | 9 | 25 | **163 017 144** | 0.830 | 4.5 |
| | 50 | 9 | 25 | **163 017 145** | 1.290 | 5.6 |
| | 63 | 9 | 25 | **163 017 146** | 2.050 | 7.1 |





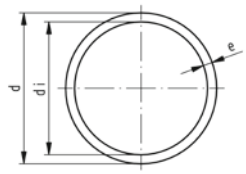

## Pipe PVC-C grey SDR13,6/PN16/S6,3

**Model:**

- Material: PVC-C, heat resistant
- Dimension: acc. to DIN 8079/80
- Colour: agate grey RAL 7038
- Pipe length: 5000mm, with plain ends
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

| d (mm) | SDR | PN (bar) | Code | Weight (kg/m) | e (mm) |
|---|---|---|---|---|---|
| 32 | 13.6 | 16 | **163 017 133** | 0.379 | 2.4 |
| 40 | 13.6 | 16 | **163 017 134** | 0.582 | 3.0 |
| 50 | 13.6 | 16 | **163 017 135** | 0.896 | 3.7 |
| 63 | 13.6 | 16 | **163 017 136** | 1.430 | 4.7 |
| 75 | 13.6 | 16 | **163 017 137** | 2.020 | 5.6 |
| 90 | 13.6 | 16 | **163 017 138** | 2.880 | 6.7 |
| 110 | 13.6 | 16 | **163 017 139** | 4.270 | 8.1 |
| 160 | 13.6 | 16 | **163 017 142** | 8.980 | 11.8 |






### DEKADUR-C Pipe PVC-C grey SDR21/PN10/S10

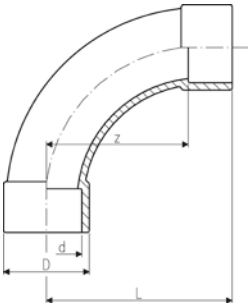
**Model:**

- Material: PVC-C, heat resistant
- Dimension: acc. to DIN 8079/80
- Colour: agate grey RAL 7038
- Pipe length: 5000mm, with plain ends
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

| d (mm) | SDR | PN (bar) | Code | Weight (kg) | e (mm) |
|---|---|---|---|---|---|
| 75 | 21 | 10 | **163 017 187** | 1.320 | 3.5 |
| 90 | 21 | 10 | **163 017 188** | 1.930 | 4.3 |
| 110 | 21 | 10 | **163 017 189** | 2.890 | 5.3 |
| 140 | 21 | 10 | **163 017 191** | 4.630 | 6.7 |
| 160 | 21 | 10 | **163 017 192** | 6.060 | 7.7 |
| 225 | 21 | 10 | **163 017 195** | 11.900 | 10.8 |

# Fittings



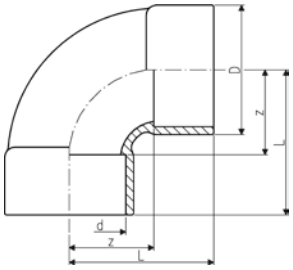



### Bend 90° PVC-C metric

- Radius = 2 d

| d (mm) | Size (inch) | PN (bar) | Code | Weight (kg) | z (mm) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|---|
| 20 | | 16 | **723 000 106** | 0.032 | 40 | 27 | 58 |
| 25 | | 16 | **723 000 107** | 0.055 | 50 | 35 | 71 |
| 32 | | 16 | **723 000 108** | 0.080 | 64 | 38 | 88 |
| 40 | | 16 | **723 000 109** | 0.143 | 80 | 54 | 109 |
| 50 | | 16 | **723 000 110** | 0.327 | 100 | 61 | 131 |
| 63 | | 16 | **723 000 111** | 0.547 | 126 | 76 | 163 |
| 75 | 2 ½ | 16 | **723 000 112** | 0.847 | 150 | 90 | 194 |
| 90 | | 16 | **723 000 113** | 1.470 | 180 | 113 | 231 |
| 110 | | 16 | **723 000 114** | 2.943 | 220 | 137 | 284 |
| 160 | | 16 | **723 000 117** | 7.950 | 320 | 192 | 406 |



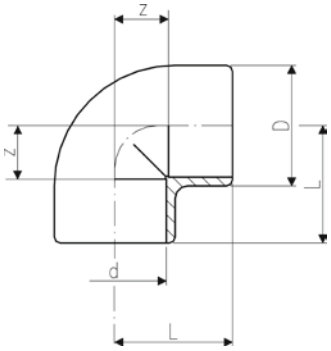



## Bend 90° short pattern PVC-C metric

- Radius = 0,75 d

| d (mm) | PN (bar) | Code | Weight (kg) | z (mm) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|
| 225 | 10 | **723 010 120** | 7.930 | 168 | 256 | 287 |

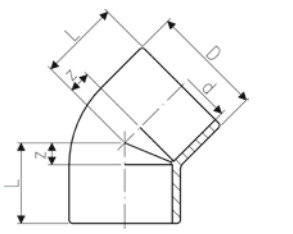





## Elbow 90° PVC-C metric

| d (mm) | Size (inch) | PN (bar) | Code | Weight (kg) | z (mm) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|---|
| 16 | | 16 | **723 100 105** | 0.015 | 9 | 21 | 23 |
| 20 | | 16 | **723 100 106** | 0.014 | 11 | 25 | 27 |
| 25 | | 16 | **723 100 107** | 0.025 | 14 | 31 | 33 |
| 32 | | 16 | **723 100 108** | 0.047 | 17 | 40 | 39 |
| 40 | | 16 | **723 100 109** | 0.077 | 21 | 49 | 47 |
| 50 | | 16 | **723 100 110** | 0.139 | 26 | 61 | 57 |
| 63 | | 16 | **723 100 111** | 0.259 | 33 | 76 | 72 |
| 75 | 2 ½ | 16 | **723 100 112** | 0.437 | 40 | 90 | 84 |
| 90 | | 16 | **723 100 113** | 0.626 | 46 | 110 | 97 |
| 110 | | 16 | **723 100 114** | 1.085 | 61 | 128 | 116 |
| 160 | | 16 | **723 100 117** | 3.097 | 80 | 185 | 166 |

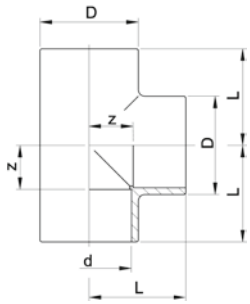





## Elbow 45° PVC-C metric

| d (mm) | Size (inch) | PN (bar) | Code | Weight (kg) | z (mm) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|---|
| 16 | | 16 | **723 150 105** | 0.008 | 5 | 21 | 19 |
| 20 | | 16 | **723 150 106** | 0.011 | 5 | 25 | 21 |
| 25 | | 16 | **723 150 107** | 0.021 | 6 | 31 | 25 |
| 32 | | 16 | **723 150 108** | 0.037 | 8 | 40 | 30 |
| 40 | | 16 | **723 150 109** | 0.063 | 10 | 49 | 36 |
| 50 | | 16 | **723 150 110** | 0.110 | 12 | 61 | 43 |
| 63 | | 16 | **723 150 111** | 0.207 | 14 | 76 | 52 |
| 75 | 2 ½ | 16 | **723 150 112** | 0.323 | 17 | 88 | 61 |
| 90 | | 16 | **723 150 113** | 0.526 | 20 | 106 | 71 |
| 110 | | 16 | **723 150 114** | 0.782 | 28 | 137 | 89 |
| 160 | | 16 | **723 150 117** | 2.384 | 36 | 185 | 122 |
| 225 | | 10 | **723 150 120** | 4.833 | 49 | 250 | 168 |

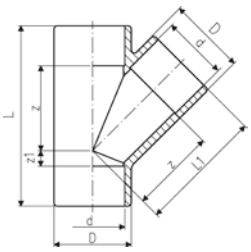





## Tee 90° PVC-C metric

| d (mm) | PN (bar) | Size (inch) | Code | Weight (kg) | z (mm) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|---|
| 16 | 16 | | **723 200 105** | 0.014 | 9 | 21 | 23 |
| 20 | 16 | | **723 200 106** | 0.020 | 11 | 25 | 27 |
| 25 | 16 | | **723 200 107** | 0.035 | 14 | 31 | 33 |
| 32 | 16 | | **723 200 108** | 0.061 | 17 | 40 | 39 |
| 40 | 16 | | **723 200 109** | 0.111 | 21 | 49 | 47 |
| 50 | 16 | | **723 200 110** | 0.198 | 26 | 61 | 57 |
| 63 | 16 | | **723 200 111** | 0.365 | 34 | 76 | 72 |
| 75 | 16 | 2 ½ | **723 200 112** | 0.581 | 40 | 90 | 84 |
| 90 | 16 | | **723 200 113** | 0.945 | 47 | 107 | 98 |
| 110 | 16 | | **723 200 114** | 1.450 | 55 | 128 | 116 |
| 160 | 16 | | **723 200 117** | 5.580 | 81 | 193 | 167 |
| 225 | 10 | | **723 200 120** | 9.560 | 114 | 256 | 233 |

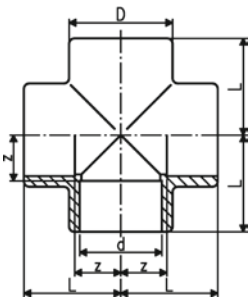





## Tee 45° PVC-C metric

| d (mm) | PN (bar) | Size (inch) | Code | Weight (kg) | z (mm) | z1 (mm) | D (mm) | L (mm) | L1 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 20 | 10 | | **723 250 106** | 0.039 | 30 | 6 | 28 | 68 | 46 |
| 25 | 10 | | **723 250 107** | 0.062 | 36 | 9 | 33 | 83 | 55 |
| 32 | 10 | | **723 250 108** | 0.102 | 45 | 10 | 41 | 99 | 67 |
| 40 | 10 | | **723 250 109** | 0.172 | 56 | 10 | 50 | 118 | 82 |
| 50 | 10 | | **723 250 110** | 0.289 | 66 | 12 | 60 | 140 | 97 |
| 63 | 10 | | **723 250 111** | 0.449 | 85 | 14 | 74 | 175 | 123 |
| 75 | 6 | 2 ½ | **723 250 112** | 0.857 | 101 | 18 | 91 | 207 | 145 |
| 90 | 6 | | **723 250 113** | 1.334 | 122 | 20 | 107 | 245 | 173 |
| 110 | 6 | | **723 250 114** | 2.677 | 149 | 27 | 134 | 298 | 210 |

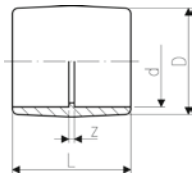





## Cross PVC-C metric

| d (mm) | PN (bar) | Code | Weight (kg) | z (mm) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|
| 32 | 16 | **723 300 108** | 0.101 | 17 | 43 | 39 |
| 63 | 16 | **723 300 111** | 0.511 | 34 | 79 | 72 |

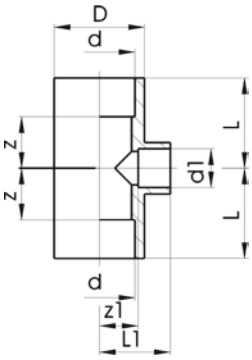





## Socket PVC-C metric

| d (mm) | PN (bar) | Code | Weight (kg) | z (mm) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|
| 16 | 16 | **723 910 105** | 0.008 | 3 | 22 | 31 |
| 20 | 16 | **723 910 106** | 0.010 | 3 | 26 | 35 |
| 25 | 16 | **723 910 107** | 0.017 | 3 | 31 | 41 |
| 32 | 16 | **723 910 108** | 0.029 | 3 | 39 | 47 |
| 40 | 16 | **723 910 109** | 0.049 | 3 | 49 | 55 |
| 50 | 16 | **723 910 110** | 0.085 | 3 | 61 | 65 |
| 63 | 16 | **723 910 111** | 0.155 | 3 | 76 | 79 |
| 75 | 16 | **723 910 112** | 0.204 | 4 | 87 | 92 |
| 90 | 16 | **723 910 113** | 0.338 | 5 | 110 | 107 |
| 110 | 16 | **723 910 114** | 0.769 | 5 | 131 | 132 |
| 160 | 16 | **723 910 117** | 1.605 | 8 | 183 | 180 |
| 225 | 10 | **723 910 120** | 3.644 | 10 | 253 | 248 |



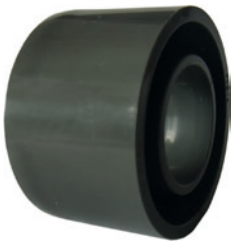


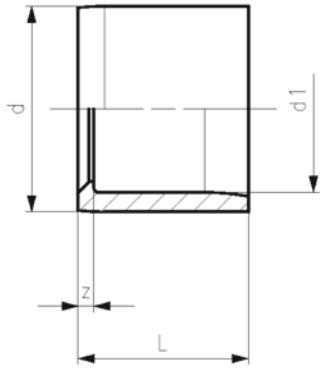

## Tee 90° reducing PVC-C metric

*Tee 90° delivered with the required reducing bushes

| | d (mm) | d1 (mm) | PN (bar) | Size (inch) | Code | Weight (kg) | z1 (mm) | L1 (mm) | z (mm) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 25 | 20 | 16 | | **723 200 134** | 0.042 | 14 | 30 | 14 | 33 | 33 |
| | 32 | 25 | 16 | | **723 200 138** | 0.069 | 17 | 36 | 17 | 41 | 39 |
| | 40 | 25 | 16 | | **723 200 151** | 0.120 | 23 | 42 | 23 | 50 | 49 |
| | 40 | 32 | 16 | | **723 200 147** | 0.120 | 23 | 45 | 23 | 50 | 49 |
| | 50 | 20 | 16 | | **723 200 009** | 0.196 | 28 | 44 | 28 | 62 | 59 |
| | 50 | 25 | 16 | | **723 200 010** | 0.192 | 28 | 47 | 28 | 62 | 59 |
| | 50 | 32 | 16 | | **723 200 164** | 0.199 | 28 | 50 | 28 | 62 | 59 |
| | 63 | 25 | 16 | | **723 200 011** | 0.358 | 34 | 53 | 34 | 77 | 73 |
| | 63 | 32 | 16 | | **723 200 178** | 0.368 | 34 | 56 | 35 | 77 | 73 |
| | 63 | 50 | 16 | | **723 200 170** | 0.096 | 34 | 65 | 35 | 77 | 73 |
| * | 75 | 63 | 16 | 2 ½ | **723 200 184** | 0.766 | 47 | 84 | 41 | 92 | 84 |
| * | 90 | 32 | 16 | | **723 200 142** | 1.436 | 75 | 97 | 46 | 111 | 97 |
| * | 90 | 63 | 16 | | **723 200 145** | 1.166 | 66 | 97 | 46 | 111 | 97 |
| * | 110 | 32 | 16 | | **723 200 135** | 2.796 | 101 | 116 | 55 | 128 | 116 |
| * | 110 | 90 | 16 | | **723 200 137** | 1.780 | 71 | 116 | 55 | 128 | 116 |







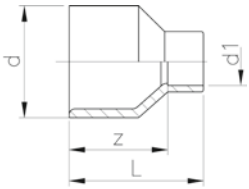

## Reducing bush short pattern PVC-C metric

**Model:**

- With solvent cement spigot and socket metric

| | d (mm) | d1 (mm) | PN (bar) | Size (inch) | Code | Weight (kg) | z (mm) | L (mm) |
|---|---|---|---|---|---|---|---|---|
| * | 20 | 16 | 16 | | **723 900 334** | 0.004 | 2 | 16 |
| * | 25 | 20 | 16 | | **723 900 337** | 0.004 | 3 | 19 |
| * | 32 | 20 | 16 | | **723 900 342** | 0.015 | 6 | 22 |
| * | 32 | 25 | 16 | | **723 900 341** | 0.010 | 4 | 22 |
| | 40 | 20 | 16 | | **723 900 348** | 0.023 | 10 | 26 |
| | 40 | 25 | 16 | | **723 900 347** | 0.024 | 7 | 26 |
| * | 40 | 32 | 16 | | **723 900 346** | 0.017 | 4 | 26 |
| | 50 | 20 | 16 | | **723 900 355** | 0.036 | 15 | 31 |
| | 50 | 25 | 16 | | **723 900 354** | 0.037 | 12 | 31 |
| | 50 | 32 | 16 | | **723 900 353** | 0.050 | 9 | 31 |
| * | 50 | 40 | 16 | | **723 900 352** | 0.032 | 5 | 31 |
| | 63 | 32 | 16 | | **723 900 360** | 0.086 | 16 | 38 |
| | 63 | 40 | 16 | | **723 900 359** | 0.074 | 12 | 38 |
| * | 63 | 50 | 16 | | **723 900 358** | 0.061 | 6 | 38 |
| | 75 | 50 | 16 | 2 ½ | **723 900 365** | 0.115 | 13 | 44 |
| * | 75 | 63 | 16 | 2 ½ | **723 900 364** | 0.086 | 6 | 44 |
| | 90 | 50 | 16 | | **723 900 372** | 0.196 | 20 | 51 |
| | 90 | 63 | 16 | | **723 900 371** | 0.183 | 14 | 51 |
| * | 90 | 75 | 16 | | **723 900 370** | 0.146 | 8 | 51 |
| | 110 | 63 | 16 | | **723 900 378** | 0.329 | 24 | 61 |
| * | 110 | 90 | 16 | | **723 900 376** | 0.283 | 10 | 61 |
| | 160 | 110 | 16 | | **723 900 390** | 0.956 | 25 | 86 |
| | 225 | 160 | 16 | | **723 900 396** | 2.380 | 33 | 119 |





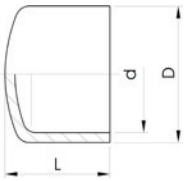

## Reducing bush long pattern PVC-C metric

**Model:**

- With solvent cement spigot and socket metric

| d (mm) | d1 (mm) | PN (bar) | Size (inch) | Code | Weight (kg) | z (mm) | L (mm) |
|---|---|---|---|---|---|---|---|
| 32 | 20 | 16 | | **723 910 342** | 0.021 | 30 | 46 |
| 40 | 25 | 16 | | **723 910 347** | 0.036 | 36 | 55 |
| 50 | 25 | 16 | | **723 910 354** | 0.058 | 44 | 63 |
| 63 | 32 | 16 | | **723 910 360** | 0.110 | 54 | 76 |
| 75 | 40 | 16 | 2 ½ | **723 910 366** | 0.165 | 62 | 88 |
| 90 | 63 | 16 | | **723 910 371** | 0.466 | 74 | 112 |

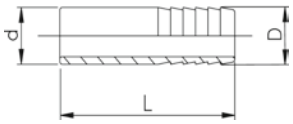





### Cap PVC-C metric

| d (mm) | PN (bar) | Code | Weight (kg) | D (mm) | L (mm) |
|---|---|---|---|---|---|
| 16 | 16 | **723 960 105** | 0.008 | 26 | 23 |
| 20 | 16 | **723 960 106** | 0.011 | 30 | 25 |
| 25 | 16 | **723 960 107** | 0.018 | 37 | 30 |
| 32 | 16 | **723 960 108** | 0.029 | 44 | 34 |
| 40 | 16 | **723 960 109** | 0.046 | 51 | 41 |
| 50 | 16 | **723 960 110** | 0.064 | 64 | 44 |
| 63 | 16 | **723 960 111** | 0.120 | 80 | 54 |
| 75 | 16 | **723 960 112** | 0.162 | 87 | 66 |
| 90 | 16 | **723 960 113** | 0.315 | 112 | 75 |
| 110 | 16 | **723 960 114** | 0.692 | 134 | 93 |
| 160 | 10 | **723 960 117** | 1.599 | 189 | 130 |






### Hose nozzle PVC-C metric

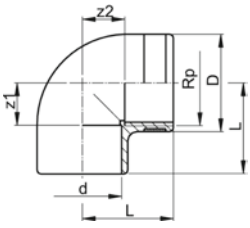
**Model:**

- With solvent cement spigot and parallel hose connection

| d (mm) | PN (bar) | Code | Weight (kg) | D (mm) | L (mm) |
|---|---|---|---|---|---|
| 16 | 16 | **723 960 405** | 0.009 | 16 | 57 |
| 20 | 16 | **723 960 406** | 0.016 | 20 | 73 |
| 25 | 16 | **723 960 407** | 0.023 | 25 | 79 |
| 32 | 16 | **723 960 408** | 0.038 | 30 | 89 |

## Adaptor fittings





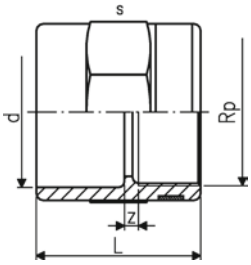

### Elbow 90° PVC-C metric Rp

**Model:**

- With solvent cement socket metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-C

| Rp (inch) | d (mm) | PN (bar) | Code | Weight (kg) | z1 (mm) | z2 (mm) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|---|---|
| ½ | 20 | 16 | **723 100 206** | 0.024 | 11 | 14 | 30 | 27 |
| ¾ | 25 | 16 | **723 100 207** | 0.037 | 14 | 17 | 35 | 33 |
| 1 | 32 | 16 | **723 100 208** | 0.063 | 17 | 22 | 45 | 39 |
| 1 ¼ | 40 | 16 | **723 100 209** | 0.134 | 23 | 27 | 55 | 50 |
| 1 ½ | 50 | 16 | **723 100 210** | 0.199 | 27 | 36 | 62 | 58 |
| 2 | 63 | 16 | **723 100 211** | 0.337 | 33 | 46 | 75 | 73 |





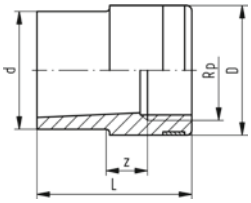

## Socket PVC-C metric Rp

**Model:**

- With solvent cement socket metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-C

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | z (mm) | L (mm) | s (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | Rp | ½ | 16 | **723 910 206** | 0.027 | 4 | 35 | 32 |
| 25 | Rp | ¾ | 16 | **723 910 207** | 0.035 | 3 | 40 | 36 |
| 32 | Rp | 1 | 16 | **723 910 208** | 0.059 | 3 | 45 | 46 |
| 40 | Rp | 1 ¼ | 16 | **723 910 209** | 0.093 | 5 | 51 | 55 |
| 50 | Rp | 1 ½ | 16 | **723 910 210** | 0.133 | 7 | 59 | 65 |
| 63 | Rp | 2 | 16 | **723 910 211** | 0.211 | 7 | 69 | 80 |





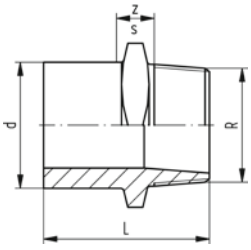

## Reducing bush PVC-C metric Rp

**Model:**

- With solvent cement spigot metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | z (mm) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | Rp | ⅜ | 16 | **723 910 434** | 0.016 | 7 | 25 | 35 |
| 25 | Rp | ½ | 16 | **723 910 437** | 0.022 | 7 | 30 | 41 |
| 32 | Rp | ¾ | 16 | **723 910 441** | 0.033 | 15 | 35 | 48 |
| 40 | Rp | 1 | 16 | **723 910 446** | 0.061 | 20 | 45 | 56 |
| 50 | Rp | 1 ¼ | 16 | **723 910 452** | 0.105 | 20 | 55 | 66 |
| 63 | Rp | 1 ½ | 16 | **723 910 458** | 0.161 | 10 | 62 | 77 |





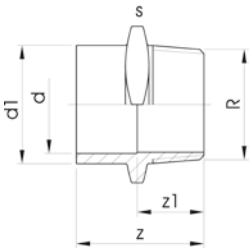

## Adaptor nipple PVC-C metric R

**Model:**

- With solvent cement spigot metric and taper male thread R
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-C

| Thread Type | Size (inch) | d (mm) | PN (bar) | Code | Weight (kg) | L (mm) | z (mm) | s (mm) |
|---|---|---|---|---|---|---|---|---|
| R | ⅜ | 16 | 16 | **723 910 505** | 0.012 | 35 | 8 | 27 |





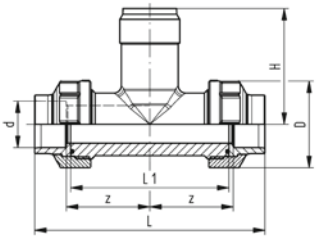

## Adaptor socket nipple PVC-C metric R

**Model:**

- With solvent cement spigot/socket metric and taper male thread R
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-C

| d (mm) | PN (bar) | Thread Type | Size (inch) | d1 (mm) | Code | Weight (kg) | z (mm) | z1 (mm) | s (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 16 | 16 | R | ½ | 20 | **723 910 556** | 0.017 | 42 | 28 | 32 |
| 20 | 16 | R | ¾ | 25 | **723 910 557** | 0.026 | 47 | 31 | 36 |
| 25 | 16 | R | 1 | 32 | **723 910 558** | 0.043 | 54 | 35 | 46 |
| 32 | 16 | R | 1 ¼ | 40 | **723 910 559** | 0.065 | 60 | 38 | 55 |
| 40 | 16 | R | 1 ½ | 50 | **723 910 560** | 0.102 | 66 | 40 | 65 |
| 50 | 16 | R | 2 | 63 | **723 910 561** | 0.173 | 78 | 47 | 80 |






### Installation fitting type 310 PVC-C
### For socket systems metric

**Range of use:**

- Compatible Signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- Compatible Signet pH/ORP sensors: type 2724, 2725, 2726, 2734, 2736, 2735

**Attention:**

- sensor length depends on installation fitting

**Model:**

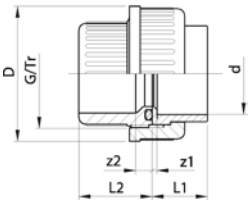
- Threaded outlet 1 ¼" NPSM
- Body and union nut PVDF
- Union end with solvent cement socket PVC-C

| d (mm) | DN (mm) | PN (bar) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 20 | 15 | 16 | **723 310 006** | 0.250 | **723 310 036** | 0.250 |
| 25 | 20 | 16 | **723 310 007** | 0.355 | **723 310 037** | 0.355 |
| 32 | 25 | 16 | **723 310 008** | 0.427 | **723 310 038** | 0.427 |
| 40 | 32 | 16 | **723 310 009** | 0.700 | **723 310 039** | 0.700 |
| 50 | 40 | 16 | **723 310 010** | 0.850 | **723 310 040** | 0.850 |
| 63 | 50 | 16 | **723 310 011** | 1.182 | **723 310 041** | 1.182 |

| d (mm) | DN (mm) | D (mm) | L (mm) | L1 (mm) | H (mm) | z (mm) | Sensor Type |
|---|---|---|---|---|---|---|---|
| 20 | 15 | 45 | 132 | 90 | 76 | 49 | flow X0; pH XX |
| 25 | 20 | 55 | 148 | 100 | 78 | 53 | flow X0; pH XX |
| 32 | 25 | 62 | 164 | 110 | 81 | 58 | flow X0; pH XX |
| 40 | 32 | 75 | 172 | 110 | 85 | 58 | flow X0; pH XX |
| 50 | 40 | 84 | 188 | 120 | 89 | 63 | flow X0; pH XX |
| 63 | 50 | 101 | 212 | 130 | 95 | 68 | flow X0; pH XX |

# Unions
## Solvent cement unions






### Union PVC-C metric

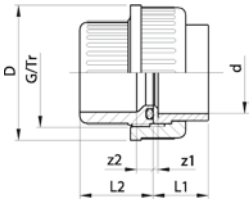
**Model:**

- Union End: PVC-C solvent cement socket metric
- Union bush: PVC-C solvent cement socket metric
- Gasket: O-ring EPDM code no. 748 410 005-016, for d90 748 410 248
- Gasket: O-ring FKM code no. 749 410 005 -016, for d90: 749 410 248

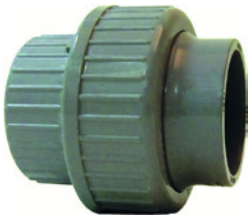
| d (mm) | Size (inch) | PN (bar) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 16 | | 16 | **723 510 105** | 0.028 | **723 510 130** | 0.027 |
| 20 | | 16 | **723 510 106** | 0.046 | **723 510 131** | 0.044 |
| 25 | | 16 | **723 510 107** | 0.063 | **723 510 132** | 0.072 |
| 32 | | 16 | **723 510 108** | 0.090 | **723 510 133** | 0.098 |
| 40 | | 16 | **723 510 109** | 0.158 | **723 510 134** | 0.167 |
| 50 | | 16 | **723 510 110** | 0.214 | **723 510 135** | 0.098 |
| 63 | | 16 | **723 510 111** | 0.360 | **723 510 136** | 0.362 |
| 75 | 2 ½ | 10 | **723 510 112** | 0.650 | **723 510 137** | 0.670 |
| 90 | | 10 | **723 510 313** | 0.994 | **723 510 338** | 1.008 |
| 110 | | 10 | **723 510 114** | 1.509 | **723 510 139** | 1.523 |

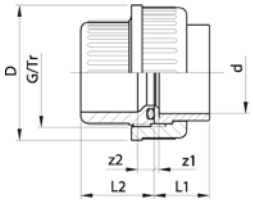
| z1 (mm) | z2 (mm) | D (mm) | L1 (mm) | L2 (mm) | G/Tr (inch) |
|---|---|---|---|---|---|
| 3 | 8 | 35 | 19 | 24 | 3/4 |
| 3 | 9 | 43 | 21 | 26 | 1 |
| 3 | 9 | 53 | 24 | 29 | 1 1/4 |
| 3 | 9 | 60 | 27 | 33 | 1 1/2 |
| 3 | 10 | 74 | 32 | 39 | 2 |

table continued on the next page




| z1 (mm) | z2 (mm) | D (mm) | L1 (mm) | L2 (mm) | G/Tr (inch) |
|---|---|---|---|---|---|
| 3 | 10 | 83 | 33 | 46 | 2 1/4 |
| 3 | 10 | 103 | 40 | 58 | 2 3/4 |
| 3 | 18 | 135 | 47 | 62 | Tr108x5 |
| 5 | 18 | 158 | 56 | 69 | Tr128x5 |
| 5 | 11 | 188 | 66 | 72 | Tr154x6 |






## Union PVC-C metric silicone free

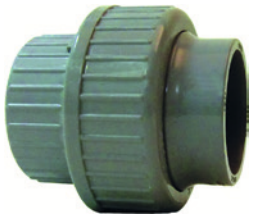
**Model:**

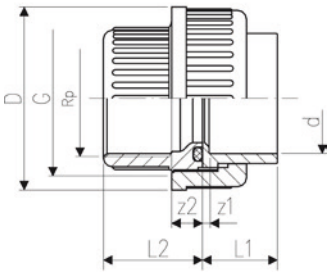
- Silicone free/paint-compatible
- Union End: PVC-C solvent socket metric
- Union bush: PVC-C solvent cement socket metric
- Gasket: with O-ring

| d (mm) | Size (inch) | PN (bar) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 16 | | 16 | **723 510 155** | 0.028 | **723 510 180** | 0.028 |
| 20 | | 16 | **723 510 156** | 0.046 | **723 510 181** | 0.046 |
| 25 | | 16 | **723 510 157** | 0.071 | **723 510 182** | 0.071 |
| 32 | | 16 | **723 510 158** | 0.099 | **723 510 183** | 0.099 |
| 40 | | 16 | **723 510 159** | 0.190 | **723 510 184** | 0.190 |
| 50 | | 16 | **723 510 160** | 0.240 | **723 510 185** | 0.240 |
| 63 | | 16 | **723 510 161** | 0.425 | **723 510 186** | 0.425 |
| 75 | 2 ½ | 10 | **723 510 162** | 0.670 | **723 510 187** | 0.670 |
| 90 | | 10 | **723 510 163** | 1.008 | **723 510 188** | 1.008 |

| d (mm) | D (mm) | L1 (mm) | L2 (mm) | z1 (mm) | z2 (mm) | G/Tr (inch) |
|---|---|---|---|---|---|---|
| 16 | 35 | 19 | 24 | 3 | 8 | 3/4 |
| 20 | 43 | 21 | 26 | 3 | 9 | 1 |
| 25 | 53 | 24 | 29 | 3 | 9 | 1 1/4 |
| 32 | 60 | 27 | 33 | 3 | 9 | 1 1/2 |
| 40 | 74 | 32 | 39 | 3 | 10 | 2 |
| 50 | 83 | 33 | 46 | 3 | 10 | 2 1/4 |
| 63 | 103 | 40 | 58 | 3 | 10 | 2 3/4 |
| 75 | 135 | 47 | 62 | 3 | 18 | Tr108x5 |
| 90 | 158 | 56 | 69 | 5 | 18 | Tr128x5 |

# Adaptor unions






## Adaptor union PVC-C metric Rp

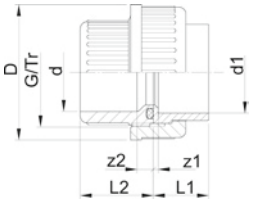
**Model:**

- Union End: PVC-C solvent cement socket metric
- Union Bush: PVC-C parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 005-011
- Gasket: O-ring FKM code no. 749 410 005-011
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-C

| d (mm) | Thread Type | Size (inch) | PN (bar) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 16 | Rp | ⅜ | 10 | **723 510 205** | 0.022 | **723 510 230** | 0.022 |
| 20 | Rp | ½ | 10 | **723 510 206** | 0.047 | **723 510 231** | 0.040 |
| 25 | Rp | ¾ | 10 | **723 510 207** | 0.065 | **723 510 232** | 0.065 |
| 32 | Rp | 1 | 10 | **723 510 208** | 0.103 | **723 510 233** | 0.103 |
| 40 | Rp | 1 ¼ | 10 | **723 510 209** | 0.155 | **723 510 234** | 0.174 |
| 50 | Rp | 1 ½ | 10 | **723 510 210** | 0.239 | **723 510 235** | 0.239 |
| 63 | Rp | 2 | 10 | **723 510 211** | 0.400 | **723 510 236** | 0.435 |

| d (mm) | z1 (mm) | z2 (mm) | D (mm) | L1 (mm) | L2 (mm) | G (inch) |
|---|---|---|---|---|---|---|
| 16 | 3 | 13 | 35 | 17 | 24 | 3/4 |
| 20 | 3 | 13 | 43 | 19 | 26 | 1 |
| 25 | 3 | 14 | 51 | 22 | 29 | 1 1/4 |
| 32 | 3 | 15 | 58 | 25 | 32 | 1 1/2 |
| 40 | 3 | 19 | 74 | 31 | 38 | 2 |
| 50 | 3 | 26 | 83 | 34 | 45 | 2 1/4 |
| 63 | 3 | 33 | 100 | 41 | 56 | 2 3/4 |






## Adaptor union PVC-C metric ASTM

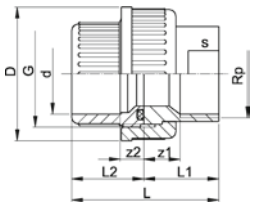
**Model:**

- Union End: PVC-C solvent cement socket inch ASTM
- Union bush: PVC-C solvent cement socket metric
- Gasket: O-ring EPDM code no. 748 410 005-011
- Gasket: O-ring FKM code no. 749 410 005-011

| d (mm) | PN (bar) | d1 (inch) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 16 | 10 | 3/8 | **723 514 105** | 0.022 | | |
| 20 | 10 | 1/2 | **723 514 106** | 0.047 | **723 514 131** | 0.047 |
| 25 | 10 | 3/4 | **723 514 107** | 0.065 | **723 514 132** | 0.065 |
| 32 | 10 | 1 | **723 514 108** | 0.103 | **723 514 133** | 0.093 |
| 40 | 10 | 1 1/4 | **723 514 109** | 0.174 | **723 514 134** | 0.161 |
| 50 | 10 | 1 1/2 | **723 514 110** | 0.239 | **723 514 135** | 0.226 |
| 63 | 10 | 2 | **723 514 111** | 0.435 | **723 514 136** | 0.372 |

| d (mm) | z1 (mm) | z2 (mm) | D (mm) | L1 (mm) | L2 (mm) | G (inch) |
|---|---|---|---|---|---|---|
| 16 | 19 | 14 | 35 | 22 | 25 | 3/4 |
| 20 | 20 | 16 | 43 | 25 | 26 | 1 |
| 25 | 25 | 19 | 51 | 28 | 29 | 1 1/4 |
| 32 | 29 | 22 | 58 | 31 | 33 | 1 1/2 |
| 40 | 32 | 26 | 74 | 35 | 39 | 2 |
| 50 | 35 | 31 | 83 | 38 | 46 | 2 1/4 |
| 63 | 38 | 37 | 100 | 41 | 58 | 2 3/4 |






## Adaptor union PVC-C metric stainless steel Rp

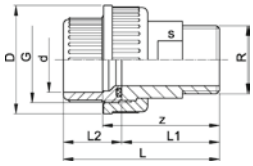
**Model:**

- Union Nut: PVC-C
- Union Bush: Solvent cement socket PVC-C metric
- Union End: Stainless Steel WN 1.4404 (316L), parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 005-011

| d (mm) | Thread Type | Size (inch) | PN (bar) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 16 | Rp | ⅜ | 16 | **723 540 205** | 0.053 | | |
| 20 | Rp | ½ | 16 | **723 540 206** | 0.096 | **723 540 231** | 0.096 |
| 25 | Rp | ¾ | 16 | **723 540 207** | 0.154 | **723 540 232** | 0.154 |
| 32 | Rp | 1 | 16 | **723 540 208** | 0.212 | **723 540 233** | 0.212 |
| 40 | Rp | 1 ¼ | 16 | **723 540 209** | 0.356 | **723 540 234** | 0.347 |
| 50 | Rp | 1 ½ | 16 | **723 540 210** | 0.455 | **723 540 235** | 0.502 |
| 63 | Rp | 2 | 16 | **723 540 211** | 0.721 | **723 540 236** | 0.721 |

| z1 (mm) | z2 (mm) | D (mm) | L (mm) | L1 (mm) | L2 (mm) | G (inch) | s (mm) |
|---|---|---|---|---|---|---|---|
| 9 | 10 | 35 | 43 | 19 | 24 | 3/4 | 19 |
| 11 | 10 | 43 | 50 | 24 | 26 | 1 | 24 |
| 11 | 10 | 51 | 55 | 26 | 29 | 1 1/4 | 29 |
| 12 | 10 | 58 | 61 | 29 | 33 | 1 1/2 | 36 |
| 14 | 12 | 74 | 71 | 33 | 39 | 2 | 45 |
| 15 | 14 | 83 | 79 | 34 | 46 | 2 1/4 | 54 |
| 15 | 18 | 100 | 95 | 39 | 58 | 2 3/4 | 63 |





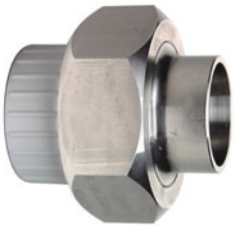

## Adaptor union PVC-C metric stainless steel R

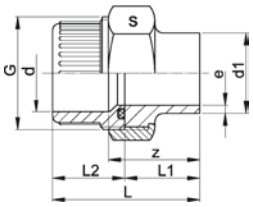
**Model:**

- Union Nut: PVC-C
- Union Bush: Solvent cement socket PVC-C metric
- Union End: Stainless Steel WN 1.4404 (316L), taper male thread R
- Gasket: O-ring EPDM code no. 748 410 005-011

| d (mm) | Thread Type | Size (inch) | PN (bar) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 16 | R | ⅜ | 16 | **723 540 705** | 0.073 | | |
| 20 | R | ½ | 16 | **723 540 706** | 0.126 | **723 540 731** | 0.120 |
| 25 | R | ¾ | 16 | **723 540 707** | 0.174 | **723 540 732** | 0.174 |
| 32 | R | 1 | 16 | **723 540 708** | 0.262 | **723 540 733** | 0.259 |
| 40 | R | 1 ¼ | 16 | **723 540 709** | 0.476 | **723 540 734** | 0.482 |
| 50 | R | 1 ½ | 16 | **723 540 710** | 0.535 | **723 540 735** | 0.535 |
| 63 | R | 2 | 16 | **723 540 711** | 0.931 | **723 540 736** | 0.982 |

| z (mm) | D (mm) | L (mm) | L1 (mm) | L2 (mm) | G (inch) | s (mm) |
|---|---|---|---|---|---|---|
| 40 | 35 | 54 | 30 | 24 | 3/4 | 19 |
| 44 | 43 | 60 | 34 | 26 | 1 | 24 |
| 46 | 51 | 65 | 36 | 29 | 1 1/4 | 32 |
| 50 | 58 | 72 | 40 | 33 | 1 1/2 | 37 |
| 58 | 74 | 84 | 46 | 39 | 2 | 48 |
| 62 | 83 | 93 | 48 | 46 | 2 1/4 | 54 |
| 73 | 100 | 111 | 55 | 58 | 2 3/4 | 69 |






## Adaptor union PVC-C metric stainless steel welding end

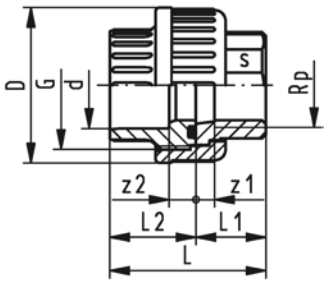
**Model:**

- Union Nut: Stainless Steel WN 1.4404 (316L)
- Union Bush: Solvent cement socket PVC-C metric
- Union End: Stainless Steel 1.4404 (316L) with welding end
- Gasket: O-ring EPDM code no. 748 410 005-011

| d (mm) | PN (bar) | d1 (mm) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 16 | 16 | 17 | **723 545 505** | 0.101 | | |
| 20 | 16 | 21 | **723 545 506** | 0.176 | | |
| 25 | 16 | 27 | **723 545 507** | 0.204 | **723 545 532** | 0.204 |
| 32 | 16 | 34 | **723 545 508** | 0.313 | **723 545 533** | 0.313 |
| 40 | 16 | 42 | **723 545 509** | 0.493 | | |
| 50 | 16 | 48 | **723 545 510** | 0.566 | | |
| 63 | 16 | 60 | **723 545 511** | 0.902 | | |

| z (mm) | L (mm) | L1 (mm) | L2 (mm) | e (mm) | G (inch) | s (mm) |
|---|---|---|---|---|---|---|
| 28 | 42 | 18 | 24 | 1.6 | 3/4 | 32 |
| 32 | 48 | 22 | 26 | 2.0 | 1 | 41 |
| 33 | 52 | 23 | 29 | 2.0 | 1 1/4 | 46 |
| 36 | 58 | 26 | 33 | 2.0 | 1 1/2 | 55 |
| 38 | 64 | 26 | 39 | 2.0 | 2 | 68 |
| 42 | 73 | 28 | 46 | 2.0 | 2 1/4 | 74 |
| 50 | 88 | 32 | 58 | 2.6 | 2 3/4 | 88 |






## Adaptor union PVC-C metric malleable iron galvanised Rp

**Model:**

- Union Nut: PVC-C
- Union Bush: Solvent cement socket PVC-C metric
- Union End: malleable iron with parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 006-011

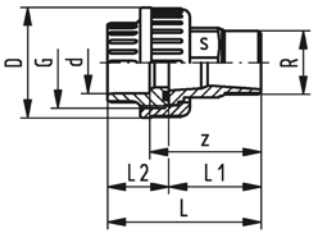
| d (mm) | Thread Type | Size (inch) | Code | Weight (kg) | D (mm) | L (mm) | L1 (mm) | L2 (mm) | G (inch) | z1 (mm) | z2 (mm) | s (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | Rp | ½ | **723 530 306** | 0.075 | 43 | 48 | 22 | 26 | 1 | 9 | 10 | 25 |
| 25 | Rp | ¾ | **723 530 307** | 0.112 | 51 | 51 | 22 | 29 | 1 1/4 | 7 | 10 | 31 |
| 32 | Rp | 1 | **723 530 308** | 0.157 | 58 | 58 | 26 | 33 | 1 1/2 | 9 | 10 | 38 |
| 40 | Rp | 1 ¼ | **723 530 309** | 0.300 | 72 | 69 | 31 | 39 | 2 | 12 | 12 | 48 |
| 63 | Rp | 2 | **723 530 311** | 0.603 | 100 | 91 | 35 | 58 | 2 3/4 | 11 | 18 | 67 |



## Adaptor union PVC-C metric malleable iron galvanised R

**Model:**

- Union Nut: PVC-C
- Union End: Malleable iron with taper male thread R
- Union Bush: Solvent cement socket PVC-C metric
- Gasket: O-ring EPDM code no. 748 410 006-011



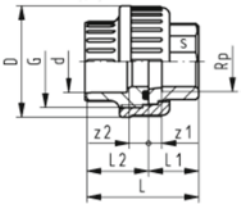

| d (mm) | Thread Type | Size (inch) | Code | Weight (kg) | s (mm) | L2 (mm) | G (inch) | z (mm) | L1 (mm) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | R | ½ | **723 530 806** | 0.114 | 25 | 26 | 1 | 50 | 40 | 43 | 66 |
| 25 | R | ¾ | **723 530 807** | 0.165 | 31 | 29 | 1 1/4 | 53 | 43 | 51 | 72 |
| 32 | R | 1 | **723 530 808** | 0.205 | 38 | 33 | 1 1/2 | 58 | 48 | 58 | 80 |
| 40 | R | 1 ¼ | **723 530 809** | 0.403 | 48 | 39 | 2 | 69 | 57 | 72 | 95 |
| 50 | R | 1 ½ | **723 530 810** | 0.539 | 54 | 46 | 2 1/4 | 73 | 59 | 83 | 104 |
| 63 | R | 2 | **723 530 811** | 0.787 | 67 | 58 | 2 3/4 | 80 | 62 | 100 | 118 |



## Adaptor union PVC-C metric brass Rp

**Model:**

- Union Nut: PVC-C
- Union Bush: Solvent cement socket PVC-C metric
- Union End: Brass with parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 006-011




| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) |
|---|---|---|---|---|---|
| 20 | Rp | ½ | 16 | **723 550 506** | 0.093 |
| 25 | Rp | ¾ | 16 | **723 550 507** | 0.152 |
| 32 | Rp | 1 | 16 | **723 550 508** | 0.198 |
| 40 | Rp | 1 ¼ | 16 | **723 550 509** | 0.351 |
| 50 | Rp | 1 ½ | 16 | **723 550 510** | 0.507 |
| 63 | Rp | 2 | 16 | **723 550 511** | 0.809 |

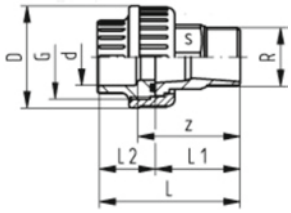
| d (mm) | L1 (mm) | D (mm) | L (mm) | L2 (mm) | s (mm) | z1 (mm) | z2 (mm) | G (inch) |
|---|---|---|---|---|---|---|---|---|
| 20 | 22 | 43 | 48 | 26 | 25 | 7 | 10 | 1 |
| 25 | 25 | 51 | 54 | 29 | 30 | 9 | 10 | 1 1/4 |
| 32 | 27 | 58 | 60 | 33 | 36 | 8 | 11 | 1 1/2 |
| 40 | 31 | 72 | 70 | 39 | 46 | 10 | 13 | 2 |
| 50 | 35 | 83 | 81 | 46 | 55 | 13 | 15 | 2 1/4 |
| 63 | 40 | 100 | 98 | 58 | 65 | 14 | 21 | 2 3/4 |



## Adaptor union PVC-C metric brass R

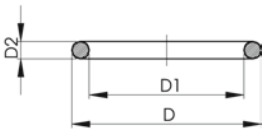
**Model:**

- Union Nut: PVC-C
- Union Bush: Solvent cement socket PVC-C metric
- Union End: Brass with taper male thread R
- Gasket: O-ring EPDM code no. 748 410 006-011




| d (mm) | Thread Type | Size (inch) | PN* (bar) | Code | Weight (kg) | z (mm) | s (mm) | G (inch) | L1 (mm) | D (mm) | L (mm) | L2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | R | ½ | 16 | **723 550 906** | 0.132 | 47 | 25 | 1 | 37 | 43 | 63 | 26 |
| 25 | R | ½ | 16 | **723 550 957** | 0.230 | 47 | 30 | 1 1/4 | 37 | 51 | 66 | 29 |
| 25 | R | ¾ | 16 | **723 550 907** | 0.203 | 52 | 30 | 1 1/4 | 42 | 51 | 71 | 29 |
| 25 | R | 1 | 16 | **723 550 967** | 0.312 | 56 | 30 | 1 1/4 | 46 | 51 | 75 | 29 |
| 32 | R | ½ | 16 | **723 550 958** | 0.302 | 48 | 36 | 1 1/2 | 37 | 58 | 70 | 33 |
| 32 | R | ¾ | 16 | **723 550 968** | 0.302 | 53 | 36 | 1 1/2 | 52 | 58 | 75 | 33 |
| 32 | R | 1 | 16 | **723 550 908** | 0.393 | 57 | 36 | 1 1/2 | 46 | 58 | 79 | 33 |
| 40 | R | 1 ¼ | 16 | **723 550 909** | 0.493 | 65 | 46 | 2 | 52 | 72 | 91 | 39 |
| 50 | R | 1 ½ | 16 | **723 550 910** | 1.468 | 71 | 55 | 2 1/4 | 56 | 83 | 102 | 46 |
| 63 | R | 2 | 16 | **723 550 911** | 1.103 | 87 | 65 | 2 3/4 | 67 | 100 | 125 | 58 |






## O-ring EPDM/FKM

**Model:**

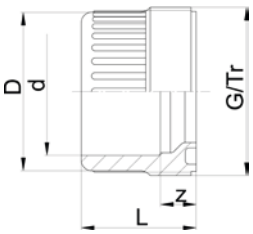
- For unions and adaptor unions
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FKM minimum temperature -15°C

* For unions PVC-U, PVC-C and ABS: 21 51 01, 21 51 11, 21 53 03, 21 53 08, 21 55 04, 21 55 13, 21 55 18, 23 51 01 and 29 51 01 only

| | d (mm) | DN (mm) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|
| | 10 - 12 | 8 | **748 410 004** | 0.002 | **749 410 004** | 0.020 |
| | 16 | 10 | **748 410 005** | 0.002 | **749 410 005** | 0.002 |
| | 20 | 15 | **748 410 006** | 0.002 | **749 410 006** | 0.002 |
| | 25 | 20 | **748 410 007** | 0.002 | **749 410 007** | 0.002 |
| | 32 | 25 | **748 410 008** | 0.003 | **749 410 008** | 0.002 |
| | 40 | 32 | **748 410 009** | 0.003 | **749 410 009** | 0.007 |
| | 50 | 40 | **748 410 010** | 0.004 | **749 410 010** | 0.060 |
| | 63 | 50 | **748 410 011** | 0.005 | **749 410 011** | 0.003 |
| * | 90 | 80 | **748 410 248** | 0.002 | **749 410 248** | 0.020 |

| | d (mm) | D (mm) | D1 (mm) | D2 (mm) | closest inch (inch) |
|---|---|---|---|---|---|
| | 10 - 12 | 17.62 | 12.37 | 2.62 | ¼ |
| | 16 | 20.78 | 15.54 | 2.62 | ⅜ |
| | 20 | 27.28 | 20.22 | 3.53 | ½ |
| | 25 | 35.23 | 28.17 | 3.53 | ¾ |
| | 32 | 39.99 | 32.93 | 3.53 | 1 |
| | 40 | 51.33 | 40.65 | 5.34 | 1 ¼ |
| | 50 | 57.68 | 46.99 | 5.34 | 1 ½ |
| | 63 | 70.37 | 59.69 | 5.34 | 2 |
| * | 90 | 105.30 | 94.62 | 5.34 | 3 |






## Union bush PVC-C metric

**Model:**

- Solvent cement socket metric
- For union 723 510 105-114
- Jointing face: with O-ring groove
- Gasket: O-ring EPDM code no. 748 410 005-016

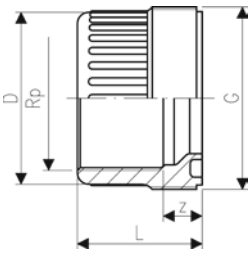
| d (mm) | Size (inch) | PN (bar) | Code | Weight (kg) | z (mm) | D (mm) | L (mm) | G/Tr (inch) |
|---|---|---|---|---|---|---|---|---|
| 16 | | 16 | **723 840 105** | 0.009 | 11 | 24 | 25 | 3/4 |
| 20 | | 16 | **723 840 106** | 0.014 | 12 | 28 | 26 | 1 |
| 25 | | 16 | **723 840 107** | 0.024 | 11 | 33 | 29 | 1 1/4 |
| 32 | | 16 | **723 840 108** | 0.038 | 10 | 41 | 33 | 1 1/2 |
| 40 | | 16 | **723 840 109** | 0.066 | 12 | 50 | 39 | 2 |
| 50 | | 16 | **723 840 110** | 0.083 | 14 | 62 | 46 | 2 1/4 |
| 63 | | 16 | **723 840 111** | 0.158 | 19 | 77 | 58 | 2 3/4 |
| 75 | 2 ½ | 10 | **723 840 112** | 0.230 | 18 | 93 | 62 | Tr108x5 |
| 90 | | 10 | **723 840 123** | 0.381 | 18 | 110 | 69 | Tr128x5 |
| 110 | | 10 | **723 840 114** | 0.480 | 11 | 133 | 72 | Tr154x6 |



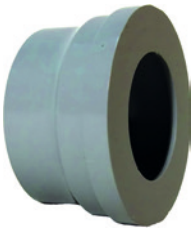
## Union bush PVC-C Rp

**Model:**

- With parallel female thread Rp
- For union 723 510 105-114
- Jointing face: with O-ring groove
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-C
- Gasket: O-ring EPDM code no. 748 410 005-011




| Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | z (mm) | D (mm) | L (mm) | G (inch) |
|---|---|---|---|---|---|---|---|---|
| Rp | ⅜ | 10 | **723 840 605** | 0.010 | 13 | 24 | 24 | 3/4 |
| Rp | ½ | 10 | **723 840 606** | 0.015 | 13 | 29 | 26 | 1 |
| Rp | ¾ | 10 | **723 840 607** | 0.024 | 14 | 34 | 29 | 1 1/4 |
| Rp | 1 | 10 | **723 840 608** | 0.039 | 15 | 42 | 32 | 1 1/2 |
| Rp | 1 ¼ | 10 | **723 840 609** | 0.069 | 19 | 53 | 38 | 2 |
| Rp | 1 ½ | 10 | **723 840 610** | 0.092 | 26 | 63 | 45 | 2 1/4 |
| Rp | 2 | 10 | **723 840 611** | 0.114 | 33 | 78 | 56 | 2 3/4 |

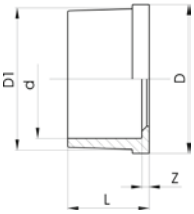


## Union end PVC-C metric

**Model:**

- For union 723 510 105-114
- With solvent cement socket metric

*just for variable area flow meter



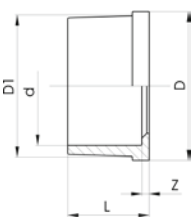

| | d (mm) | Size (inch) | PN (bar) | Code | Weight (kg) | z (mm) | D (mm) | D1 (mm) | L (mm) |
|---|---|---|---|---|---|---|---|---|---|
| | 16 | | 16 | **723 800 105** | 0.005 | 3 | 24 | 22 | 19 |
| | 20 | | 16 | **723 800 106** | 0.010 | 3 | 30 | 28 | 21 |
| | 25 | | 16 | **723 800 107** | 0.018 | 3 | 39 | 36 | 24 |
| | 32 | | 16 | **723 800 108** | 0.023 | 3 | 44 | 41 | 27 |
| | 40 | | 16 | **723 800 109** | 0.062 | 3 | 57 | 53 | 31 |
| | 50 | | 16 | **723 800 110** | 0.064 | 3 | 63 | 59 | 34 |
| | 63 | | 16 | **723 800 111** | 0.120 | 3 | 78 | 74 | 41 |
| | 75 | 2 ½ | 10 | **723 800 162** | 0.157 | 3 | 101 | 91 | 47 |
| * | 75 | 2 ½ | 10 | **700 253 867** | 0.155 | 3 | 97 | 90 | 47 |
| | 90 | | 10 | **723 800 163** | 0.260 | 5 | 121 | 108 | 56 |
| | 110 | | 10 | **723 800 164** | 0.418 | 5 | 146 | 131 | 66 |



## Union end PVC-C ASTM

**Model:**

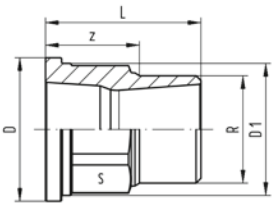
- For union 723 510 105-114
- With solvent cement socket ASTM




| PN (bar) | d1 (inch) | Code | Weight (kg) | z (mm) | D (mm) | D1 (mm) | L (mm) |
|---|---|---|---|---|---|---|---|
| 16 | 3/8 | **723 602 005** | 0.006 | 3 | 24 | 22 | 22 |
| 16 | 1/2 | **723 602 006** | 0.013 | 3 | 30 | 28 | 25 |
| 16 | 3/4 | **723 602 007** | 0.016 | 3 | 39 | 36 | 28 |
| 16 | 1 | **723 602 008** | 0.025 | 3 | 45 | 42 | 32 |
| 16 | 1 1/4 | **723 602 009** | 0.040 | 3 | 57 | 53 | 35 |
| 16 | 1 1/2 | **723 602 010** | 0.049 | 3 | 63 | 59 | 38 |
| 16 | 2 | **723 602 011** | 0.080 | 3 | 78 | 74 | 41 |
| 16 | 2 1/2 | **723 602 012** | 0.169 | 3 | 101 | 91 | 47 |
| 16 | 3 | **723 602 013** | 0.275 | 5 | 121 | 108 | 56 |
| 16 | 4 | **723 602 014** | 0.420 | 5 | 146 | 131 | 66 |

## Union end malleable iron galvanized R





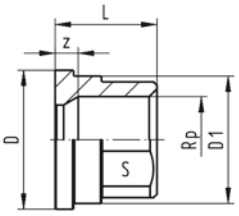

**Model:**

- Union End: Malleable iron with taper male thread R

| d (mm) | Thread Type | Size (inch) | Code | Weight (kg) | D (mm) | L (mm) | D1 (mm) | z (mm) | s (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 20 | R | ½ | **724 600 806** | 0.069 | 30 | 40 | 27 | 25 | 23 |
| 25 | R | ¾ | **724 600 807** | 0.115 | 39 | 43 | 36 | 27 | 30 |
| 32 | R | 1 | **724 600 808** | 0.161 | 44 | 48 | 41 | 29 | 36 |
| 40 | R | 1 ¼ | **724 600 809** | 0.294 | 56 | 57 | 52 | 36 | 48 |
| 50 | R | 1 ½ | **724 600 810** | 0.353 | 62 | 59 | 58 | 37 | 54 |
| 63 | R | 2 | **724 600 811** | 0.570 | 78 | 62 | 73 | 36 | 66 |
| 75 | R | 2 ½ | **724 600 812** | 0.980 | 97 | 75 | 92 | 45 | 85 |
| 90 | R | 3 | **724 600 813** | 1.217 | 110 | 80 | 104 | 47 | 95 |

## Union end malleable iron galvanized Rp



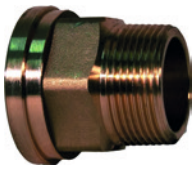


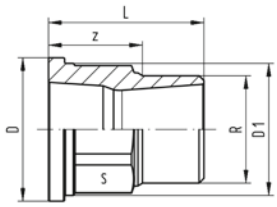

**Model:**

- Union End: malleable iron with parallel female thread Rp

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | D (mm) | L (mm) | s (mm) | z (mm) | D1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 20 | Rp | ½ | 16 | **724 600 206** | 0.037 | 30 | 22 | 25 | 9 | 27 |
| 25 | Rp | ¾ | 16 | **724 600 207** | 0.072 | 39 | 22 | 31 | 7 | 36 |
| 32 | Rp | 1 | 16 | **724 600 208** | 0.088 | 44 | 26 | 38 | 9 | 41 |
| 40 | Rp | 1 ¼ | 16 | **724 600 209** | 0.172 | 56 | 31 | 48 | 12 | 52 |
| 50 | Rp | 1 ½ | 16 | **724 600 210** | 0.210 | 62 | 33 | 54 | 14 | 58 |
| 63 | Rp | 2 | 16 | **724 600 211** | 0.324 | 78 | 35 | 67 | 11 | 73 |
| 75 | Rp | 2 ½ | 16 | **724 600 212** | 0.557 | 100 | 39 | 85 | 12 | 92 |
| 90 | Rp | 3 | 16 | **724 600 213** | 0.650 | 110 | 45 | 96 | 15 | 104 |

## Union end brass R



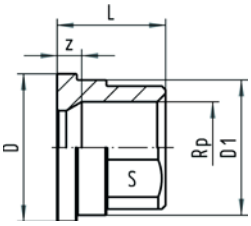



**Model:**

- Union End: Brass with taper male thread R

| d (mm) | Thread Type | Size (inch) | Code | Weight (kg) | z (mm) | D1 (mm) | D (mm) | s (mm) | L (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 20 | R | ½ | **720 600 246** | 0.092 | 22 | 28 | 30 | 25 | 37 |
| 25 | R | ¾ | **720 600 247** | 0.151 | 25 | 36 | 39 | 30 | 42 |
| 25 | R | ½ | **720 600 257** | 0.142 | 27 | 36 | 39 | 30 | 42 |
| 32 | R | 1 | **720 600 248** | 0.216 | 28 | 42 | 45 | 36 | 46 |
| 32 | R | ½ | **720 600 258** | 0.113 | 31 | 42 | 45 | 36 | 46 |
| 32 | R | ¾ | **720 600 268** | 0.206 | 30 | 42 | 45 | 36 | 46 |
| 40 | R | 1 ¼ | **720 600 249** | 0.408 | 32 | 53 | 56 | 46 | 52 |
| 50 | R | 1 ½ | **720 600 250** | 0.538 | 36 | 59 | 62 | 55 | 56 |
| 63 | R | 2 | **720 600 251** | 0.859 | 42 | 74 | 78 | 65 | 67 |
| 75 | R | 2 ½ | **720 600 252** | 1.446 | 49 | 92 | 100 | 85 | 77 |
| 90 | R | 3 | **720 600 253** | 2.063 | 54 | 110 | 121 | 95 | 86 |





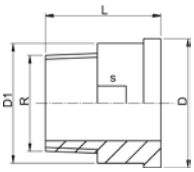

## Union end brass Rp

**Model:**

- Union End: Brass with parallel female thread Rp

| d (mm) | Thread Type | Size (inch) | Code | Weight (kg) | L (mm) | s (mm) | D (mm) | D1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 20 | Rp | ½ | **720 600 236** | 0.059 | 22 | 25 | 30 | 28 | 5 |
| 25 | Rp | ¾ | **720 600 237** | 0.100 | 25 | 30 | 39 | 36 | 6 |
| 32 | Rp | 1 | **720 600 238** | 0.128 | 27 | 36 | 45 | 42 | 6 |
| 40 | Rp | 1 ¼ | **720 600 239** | 0.211 | 31 | 46 | 56 | 53 | 7 |
| 50 | Rp | 1 ½ | **720 600 240** | 0.324 | 35 | 55 | 62 | 59 | 7 |
| 63 | Rp | 2 | **720 600 241** | 0.510 | 40 | 65 | 78 | 74 | 8 |
| 75 | Rp | 2 ½ | **720 600 242** | 0.893 | 47 | 85 | 100 | 92 | 10 |
| 90 | Rp | 3 | **720 600 243** | 1.395 | 52 | 95 | 121 | 110 | 11 |





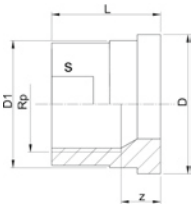

## Union end stainless steel R

**Model:**

- Material: stainless steel 1.4404 (316L)
- Taper male thread R

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | D (mm) | D1 (mm) | L (mm) | s (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 16 | R | ⅜ | 16 | **724 600 705** | 0.052 | 24 | 22 | 30 | 19 |
| 20 | R | ½ | 16 | **724 600 706** | 0.083 | 30 | 28 | 34 | 24 |
| 25 | R | ¾ | 16 | **724 600 707** | 0.125 | 39 | 36 | 36 | 32 |
| 32 | R | 1 | 16 | **724 600 708** | 0.189 | 45 | 42 | 40 | 37 |
| 40 | R | 1 ¼ | 16 | **724 600 709** | 0.356 | 57 | 53 | 46 | 48 |
| 50 | R | 1 ½ | 16 | **724 600 710** | 0.407 | 63 | 59 | 48 | 54 |
| 63 | R | 2 | 16 | **724 600 711** | 0.668 | 78 | 74 | 55 | 69 |






## Union end stainless steel Rp

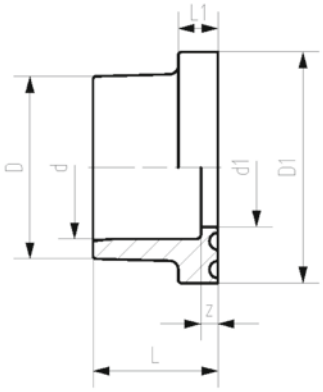
**Model:**

- Material: stainless steel 1.4404 (316L)
- Parallel female thread Rp

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | z (mm) | D (mm) | D1 (mm) | L (mm) | s (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | Rp | ⅜ | 16 | **724 600 655** | 0.030 | 9 | 24 | 22 | 19 | 19 |
| 20 | Rp | ½ | 16 | **724 600 656** | 0.060 | 11 | 30 | 28 | 24 | 24 |
| 25 | Rp | ¾ | 16 | **724 600 657** | 0.092 | 11 | 39 | 36 | 26 | 29 |
| 32 | Rp | 1 | 16 | **724 600 658** | 0.137 | 12 | 45 | 42 | 29 | 36 |
| 40 | Rp | 1 ¼ | 16 | **724 600 659** | 0.226 | 14 | 57 | 53 | 33 | 45 |
| 50 | Rp | 1 ½ | 16 | **724 600 660** | 0.314 | 15 | 63 | 59 | 34 | 54 |
| 63 | Rp | 2 | 16 | **724 600 661** | 0.438 | 15 | 78 | 74 | 39 | 63 |

# Flange adaptors






### Flange adaptor PVC-C
### Combined jointing face flat and serrated metric

**Model:**

- Gasket: flat gasket EPDM code no. 748 400 306-320
- Gasket: profile flange gasket EPDM code no. 748 440 706-720, FKM code no. 749 440 706-720
- Flanges (metric & ANSI): PVC-U, PP-V, PP-Steel

**Note:**

* bevel on pipe may be needed if used with butterfly valve type 037/038/039

| | d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | D (mm) | D1 (mm) | d1 (mm) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20 | 15 | 16 | **723 790 106** | 0.011 | 27 | 34 | 16.0 | 21 | 6 | 3 |
| | 25 | 20 | 16 | **723 790 107** | 0.018 | 33 | 41 | 21.0 | 24 | 7 | 3 |
| | 32 | 25 | 16 | **723 790 108** | 0.027 | 41 | 50 | 28.0 | 27 | 7 | 3 |
| | 40 | 32 | 16 | **723 790 109** | 0.032 | 50 | 61 | 36.0 | 30 | 8 | 3 |
| | 50 | 40 | 16 | **723 790 110** | 0.054 | 61 | 73 | 45.0 | 34 | 8 | 3 |
| | 63 | 50 | 16 | **723 790 111** | 0.097 | 76 | 90 | 57.0 | 41 | 9 | 3 |
| | 75 | 65 | 16 | **723 790 112** | 0.168 | 91 | 106 | 69.0 | 47 | 10 | 3 |
| | 90 | 80 | 16 | **723 790 113** | 0.265 | 108 | 125 | 81.8 | 56 | 11 | 5 |
| | 110 | 100 | 16 | **723 790 114** | 0.441 | 131 | 150 | 101.5 | 66 | 12 | 5 |
| * | 160 | 150 | 16 | **723 790 117** | 1.139 | 188 | 213 | 152.0 | 91 | 16 | 5 |
| | 225 | 200 | 10 | **723 790 120** | 1.860 | 248 | 274 | 217.0 | 125 | 25 | 6 |

# PVC-C accessories




### Cap for cement

- Cap prevents the evaporation of the solvent whilst using the Tangit cement

| Code | Weight (kg) |
|---|---|
| **799 298 028** | 0.030 |




### Tangit PVC-U/PVC-C/ABS cleaner/primer

**Model:**

- For PVC-U, PVC-C, ABS
- 1 litre tin

| Code | Weight (kg) |
|---|---|
| **799 298 010** | 0.900 |



## Round brush

| d-d (mm) | | Code | Weight (kg) | Closest inch (inch) |
|---|---|---|---|---|
| 6 - 10 | 4 mm (for Fittings 6-10mm) | **799 299 001** | 0.004 | ⅛ |
| 12 - 32 | 8 mm (for Fittings 12-32mm) | **799 299 002** | 0.006 | ¼ - 1 |



## Flat brush

| d-d (mm) | | Code | Weight (kg) | Closest inch (inch) |
|---|---|---|---|---|
| 40 - 63 | 25x3 mm (for Fittings 40-63mm) | **799 299 003** | 0.015 | 1 ¼ - 2 |
| 75 - 225 | 50x5 mm (for Fittings 75-225mm) | **799 299 004** | 0.035 | 2 ½ - 8 |
| 250 - 400 | 75x6 mm (for Fittings 250-400mm) | **799 299 005** | 0.053 | 9 - 16 |



## Chamfering tool

| d-d (mm) | Size (mm) | Code | Weight (kg) | Closest inch (inch) |
|---|---|---|---|---|
| 16 - 75 | 1 | **799 495 145** | 0.720 | ⅜ - 2 ½ |
| 32 - 200 | 2 | **799 495 146** | 0.992 | 1 - 8 |



## Marker

| Type | Code | Weight (kg) |
|---|---|---|
| silver | **799 350 364** | 0.010 |



## Timer with 2 stop times

| Code | Weight (kg) |
|---|---|
| **790 114 028** | 0.088 |

# PVC-U metric



## Your benefits

+ **Comprehensive product range**
+ **Very good chemical resistance**
+ **Low costs for installation equipment**
+ **Food and drinking water approvals**

## Technical data

**Materials**
PVC-U

**Dimensions range**
6 mm to 400 mm (ISO/DIN)
3⁄8" to 8" (BS)
1⁄8" to 24" (ANSI/ASTM)
Flanges and valve connections (JIS)

**Jointing technology**
Cementing

**Operating pressure**
Up to 16 bar

**Operating temperature**
0°C to 60°C

The value above listed are to be considered for water, in case of use chemical addition it is always recommended to contact GF specialist to an individual and more detailed assessment.

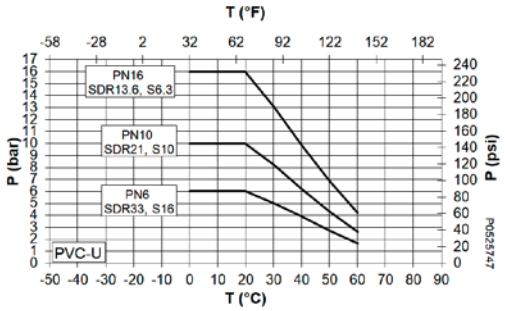
## Pressure-temperature diagram for PVC-U

The following pressure-temperature diagram for PVC-U pipe and fittings is valid for a service life of 25 years.

The design factor of 2.5 recommended by GF Piping Systems has been incorporated. It can be used for water or media resembling water, in other words, media that have no reduction factor for chemical resistance.

**Please take into account the pressure-temperature diagrams for valves and special fittings. Because of the construction and/or sealing material used, differences are possible when compared to pipe and fittings. More information is available in the Planning Fundamentals of the relevant types of valves and special fittings.**

**Metric systems**




P Permissible pressure (bar, psi)
T Temperature (°C, °F)

**PVC-U fittings d200 to d280 by GF Piping Systems are designed and tested for a nominal pressure of PN10. Sizes d315 to d400 are designed and tested for a nominal pressure of PN6**

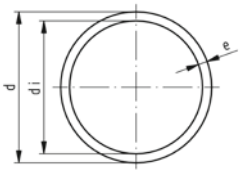
Our experience and tests show that pipe equal to or greater than d315 can be slightly oval, which could produce an enlarged cementing gap.

GF Piping Systems therefore recommends that pipe equal or greater than d315 should be operated at a maximum operating pressure (+20 °C) of 6 bar. Please observe the special information for this dimension range in the cementing instructions for PVC-U.

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|  | Pipe fittings for solvent cement jointing | 395 |
|  | Adaptor fittings | 404 |
|  | Unions/tank adapters | 412 |
|  | Solvent Cements and Tools | 424 |

# Pipes





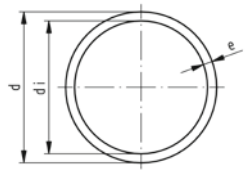

## Pipe PVC-U grey
## SDR21/PN10/S10

**Model:**

- Material: PVC-U
- Dimension: acc. to DIN 8061/62
- Colour: darkgrey RAL 7011
- Pipe length: 5000mm, with plain ends
- * SDR 17
- **Note 1**: DIBT Z-40.23-1 approval
- **Note 3**: DVGW approval + DIN plus
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

| | Note | d (mm) | SDR | PN (bar) | Code | Weight (kg/m) | e (mm) |
|---|---|---|---|---|---|---|---|
| * | 1, 3 | 25 | 17 | 10 | **161 017 082** | 0.177 | 1.5 |
| * | 1, 3 | 32 | 17 | 10 | **161 017 083** | 0.280 | 1.9 |
| | 1, 3 | 40 | 21 | 10 | **161 017 084** | 0.355 | 1.9 |
| | 1, 3 | 50 | 21 | 10 | **161 017 085** | 0.560 | 2.4 |
| | 1, 3 | 63 | 21 | 10 | **161 017 086** | 0.866 | 3.0 |
| | 1, 3 | 75 | 21 | 10 | **161 017 087** | 1.240 | 3.6 |
| | 1, 3 | 90 | 21 | 10 | **161 017 088** | 1.770 | 4.3 |
| | 1, 3 | 110 | 21 | 10 | **161 017 089** | 2.650 | 5.3 |
| | 1, 3 | 125 | 21 | 10 | **161 017 090** | 3.390 | 6.0 |
| | 1, 3 | 140 | 21 | 10 | **161 017 091** | 4.240 | 6.7 |
| | 1, 3 | 160 | 21 | 10 | **161 017 092** | 5.550 | 7.7 |
| | 1, 3 | 180 | 21 | 10 | **161 017 093** | 6.970 | 8.6 |
| | 1, 3 | 200 | 21 | 10 | **161 017 094** | 8.640 | 9.6 |
| | 1, 3 | 225 | 21 | 10 | **161 017 095** | 10.900 | 10.8 |
| | | 250 | 21 | 10 | **161 017 096** | 13.300 | 11.9 |
| | | 280 | 21 | 10 | **161 017 097** | 16.800 | 13.4 |
| | | 315 | 21 | 10 | **161 017 098** | 21.200 | 15.0 |






### Pipe PVC-U grey
### SDR13,6/PN16/S6,4

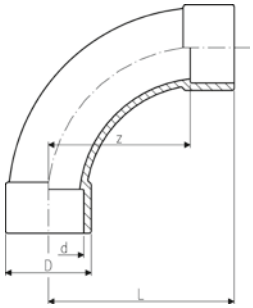
**Model:**

- Material: PVC-U
- Dimension: acc. to DIN 8061/62
- Colour: darkgrey RAL 7011
- Pipe length: 5000mm, with plain ends
- * SDR 11
- **Note 1**: DIBT Z-40.23-1 approval
- **Note 3**: DVGW approval + DIN plus
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

| | Note | d (mm) | SDR | PN (bar) | Code | Weight (kg/m) | e (mm) |
|---|---|---|---|---|---|---|---|
| * | | 12 | 11 | 16 | **161 017 104** | 0.062 | 1.1 |
| | 1, 3 | 16 | 13.6 | 16 | **161 017 105** | 0.091 | 1.2 |
| | 1, 3 | 20 | 13.6 | 16 | **161 017 106** | 0.139 | 1.5 |
| | 1, 3 | 25 | 13.6 | 16 | **161 017 107** | 0.215 | 1.9 |
| | 1, 3 | 32 | 13.6 | 16 | **161 017 108** | 0.347 | 2.4 |
| | 1, 3 | 40 | 13.6 | 16 | **161 017 109** | 0.533 | 3.0 |
| | 1, 3 | 50 | 13.6 | 16 | **161 017 110** | 0.821 | 3.7 |
| | 1, 3 | 63 | 13.6 | 16 | **161 017 111** | 1.310 | 4.7 |
| | 1, 3 | 75 | 13.6 | 16 | **161 017 112** | 1.850 | 5.6 |
| | 1, 3 | 90 | 13.6 | 16 | **161 017 113** | 2.640 | 6.7 |
| | 1, 3 | 110 | 13.6 | 16 | **161 017 114** | 3.910 | 8.1 |
| | 1, 3 | 125 | 13.6 | 16 | **161 017 115** | 5.040 | 9.2 |
| | 1, 3 | 140 | 13.6 | 16 | **161 017 116** | 6.030 | 10.3 |
| | 1, 3 | 160 | 13.6 | 16 | **161 017 117** | 8.230 | 11.8 |

# Pipe fittings for solvent cement jointing



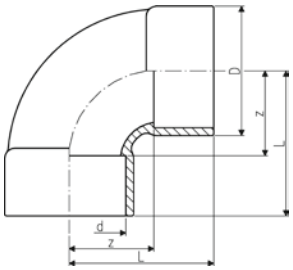



### Bend 90° PVC metric

| d (mm) | Size (inch) | PN (bar) | Code | Weight (kg) | z (mm) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|---|
| 20 | | 16 | **721 000 106** | 0.029 | 40 | 27 | 56 |
| 25 | | 16 | **721 000 107** | 0.049 | 50 | 33 | 69 |
| 32 | | 16 | **721 000 108** | 0.074 | 64 | 38 | 86 |
| 40 | | 16 | **721 000 109** | 0.121 | 80 | 47 | 106 |
| 50 | | 16 | **721 000 110** | 0.298 | 100 | 61 | 131 |
| 63 | | 16 | **721 000 111** | 0.516 | 126 | 76 | 164 |
| 75 | 2 ½ | 16 | **721 000 112** | 0.798 | 150 | 90 | 194 |
| 90 | | 16 | **721 000 113** | 1.373 | 180 | 108 | 231 |
| 110 | | 16 | **721 000 114** | 2.699 | 220 | 137 | 281 |
| 140 | 5 | 16 | **721 000 116** | 5.204 | 280 | 168 | 356 |
| 160 | | 16 | **721 000 117** | 8.298 | 320 | 192 | 406 |

## Bend 90° short pattern PVC-U metric

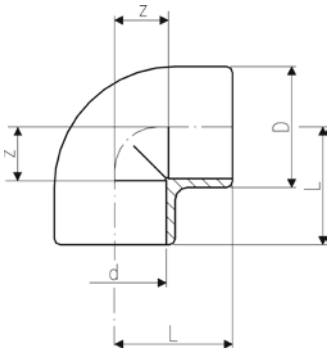





| d (mm) | PN (bar) | Code | Weight (kg) | z (mm) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|
| 225 | 10 | **721 010 120** | 7.554 | 168 | 256 | 287 |
| 280 | 10 | **721 010 122** | 16.987 | 210 | 318 | 357 |
| 315 | 6 | **721 010 123** | 21.567 | 237 | 356 | 402 |
| 400 | 6 | **721 010 125** | 30.000 | 300 | 442 | 521 |

## Elbow 90° PVC-U metric

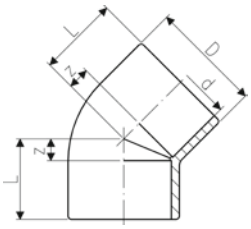





| d (mm) | Size (inch) | PN (bar) | Code | Weight (kg) | z (mm) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|---|
| 6 | | 16 | **721 100 101** | 0.004 | 4 | 11 | 16 |
| 8 | | 16 | **721 100 102** | 0.004 | 5 | 13 | 17 |
| 10 | | 16 | **721 100 103** | 0.004 | 6 | 14 | 18 |
| 12 | | 16 | **721 100 104** | 0.006 | 7 | 17 | 19 |
| 16 | | 16 | **721 100 105** | 0.007 | 9 | 21 | 23 |
| 20 | | 16 | **721 100 106** | 0.012 | 11 | 25 | 27 |
| 25 | | 16 | **721 100 107** | 0.024 | 14 | 32 | 33 |
| 32 | | 16 | **721 100 108** | 0.043 | 17 | 40 | 39 |
| 40 | | 16 | **721 100 109** | 0.062 | 23 | 47 | 49 |
| 50 | | 16 | **721 100 110** | 0.107 | 26 | 59 | 57 |
| 63 | | 16 | **721 100 111** | 0.202 | 33 | 73 | 71 |
| 75 | 2 ½ | 16 | **721 100 112** | 0.332 | 40 | 87 | 83 |
| 90 | | 16 | **721 100 113** | 0.576 | 46 | 105 | 97 |
| 110 | | 16 | **721 100 114** | 1.009 | 55 | 128 | 116 |
| 125 | | 16 | **721 100 115** | 1.522 | 63 | 146 | 131 |
| 140 | 5 | 16 | **721 100 116** | 1.945 | 70 | 162 | 146 |
| 160 | | 16 | **721 100 117** | 2.873 | 80 | 185 | 166 |
| 200 | | 10 | **721 100 119** | 4.446 | 101 | 225 | 207 |
| 225 | | 10 | **721 100 120** | 5.989 | 114 | 252 | 233 |
| 250 | | 10 | **721 100 121** | 10.014 | 131 | 282 | 263 |

## Elbow 45° PVC-U metric

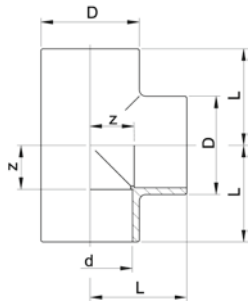





| d (mm) | Size (inch) | PN (bar) | Code | Weight (kg) | z (mm) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|---|
| 16 | | 16 | **721 150 105** | 0.008 | 5 | 21 | 19 |
| 20 | | 16 | **721 150 106** | 0.011 | 5 | 25 | 21 |
| 25 | | 16 | **721 150 107** | 0.017 | 6 | 31 | 25 |
| 32 | | 16 | **721 150 108** | 0.021 | 8 | 38 | 30 |
| 40 | | 16 | **721 150 109** | 0.048 | 10 | 47 | 36 |
| 50 | | 16 | **721 150 110** | 0.086 | 12 | 59 | 43 |
| 63 | | 16 | **721 150 111** | 0.160 | 14 | 73 | 52 |
| 75 | 2 ½ | 16 | **721 150 112** | 0.253 | 17 | 87 | 61 |
| 90 | | 16 | **721 150 113** | 0.430 | 20 | 105 | 71 |
| 110 | | 16 | **721 150 114** | 0.750 | 25 | 127 | 86 |
| 125 | | 16 | **721 150 115** | 1.193 | 28 | 146 | 97 |
| 140 | 5 | 16 | **721 150 116** | 1.570 | 32 | 162 | 108 |
| 160 | | 16 | **721 150 117** | 2.280 | 36 | 185 | 122 |
| 200 | | 10 | **721 150 119** | 3.288 | 43 | 225 | 149 |
| 225 | | 10 | **721 150 120** | 4.191 | 49 | 250 | 168 |
| 250 | | 10 | **721 150 121** | 7.115 | 60 | 282 | 192 |
| 280 | | 10 | **721 150 122** | 10.340 | 66 | 318 | 213 |
| 315 | | 6 | **721 150 123** | 14.292 | 74 | 356 | 239 |
| 400 | | 6 | **721 150 125** | 25.268 | 94 | 442 | 302 |

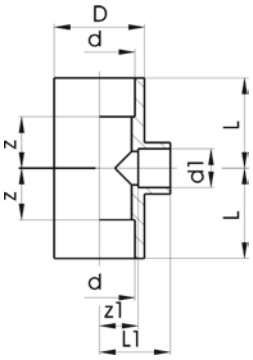
## Tee 90° equal PVC-U metric






| d (mm) | Size (inch) | PN (bar) | d (inch) | Code | Weight (kg) | D (mm) | L (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| 6 | | 16 | | **721 200 101** | 0.004 | 11 | 16 | 4 |
| 8 | | 16 | | **721 200 102** | 0.008 | 13 | 17 | 5 |
| 10 | | 16 | | **721 200 103** | 0.008 | 16 | 18 | 6 |
| 12 | | 16 | | **721 200 104** | 0.011 | 19 | 19 | 7 |
| 16 | | 16 | | **721 200 105** | 0.011 | 21 | 23 | 9 |
| 20 | | 16 | | **721 200 106** | 0.019 | 25 | 27 | 11 |
| 25 | | 16 | | **721 200 107** | 0.029 | 31 | 33 | 14 |
| 32 | | 16 | | **721 200 108** | 0.055 | 38 | 39 | 17 |
| 40 | | 16 | | **721 200 109** | 0.100 | 48 | 49 | 23 |
| 50 | | 16 | | **721 200 110** | 0.156 | 58 | 57 | 26 |
| 63 | | 16 | | **721 200 111** | 0.291 | 73 | 71 | 33 |
| 75 | 2 ½ | 16 | 2 ½ | **721 200 112** | 0.476 | 87 | 83 | 39 |
| 90 | | 16 | | **721 200 113** | 0.824 | 105 | 97 | 46 |
| 110 | | 16 | | **721 200 114** | 1.411 | 127 | 116 | 55 |
| 125 | | 16 | | **721 200 115** | 2.521 | 151 | 135 | 66 |
| 140 | 5 | 16 | 5 | **721 200 116** | 3.410 | 169 | 147 | 71 |
| 160 | | 16 | | **721 200 117** | 4.982 | 193 | 167 | 81 |
| 200 | | 10 | | **721 200 119** | 5.868 | 225 | 207 | 101 |
| 225 | | 10 | | **721 200 120** | 9.268 | 256 | 233 | 114 |
| 250 | | 10 | | **721 200 121** | 14.350 | 282 | 263 | 132 |
| 280 | | 10 | | **721 200 122** | 19.541 | 318 | 298 | 152 |
| 315 | | 6 | | **721 200 123** | 27.254 | 356 | 332 | 168 |
| 400 | | 6 | | **721 200 125** | 35.000 | 442 | 420 | 214 |

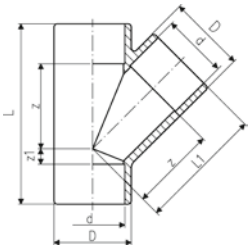





## Tee 90° reducing PVC-U metric

| d (mm) | d1 (mm) | PN (bar) | Size (inch) | Code | Weight (kg) | z (mm) | z1 (mm) | D (mm) | L (mm) | L1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 20 | 16 | | **721 200 134** | 0.038 | 14 | 14 | 33 | 33 | 30 |
| 32 | 20 | 16 | | **721 200 141** | 0.061 | 17 | 17 | 41 | 39 | 33 |
| 32 | 25 | 16 | | **721 200 138** | 0.063 | 17 | 17 | 41 | 39 | 36 |
| 40 | 20 | 16 | | **721 200 155** | 0.103 | 23 | 23 | 50 | 49 | 39 |
| 40 | 25 | 16 | | **721 200 151** | 0.107 | 23 | 23 | 50 | 49 | 42 |
| 40 | 32 | 16 | | **721 200 147** | 0.109 | 23 | 23 | 50 | 49 | 45 |
| 50 | 20 | 16 | | **721 200 009** | 0.179 | 28 | 28 | 62 | 59 | 44 |
| 50 | 25 | 16 | | **721 200 010** | 0.183 | 28 | 28 | 62 | 59 | 47 |
| 50 | 32 | 16 | | **721 200 164** | 0.189 | 28 | 28 | 62 | 59 | 50 |
| 50 | 40 | 16 | | **721 200 161** | 0.208 | 28 | 28 | 62 | 59 | 54 |
| 63 | 25 | 16 | | **721 200 011** | 0.332 | 34 | 34 | 77 | 72 | 53 |
| 63 | 32 | 16 | | **721 200 178** | 0.336 | 34 | 34 | 77 | 72 | 56 |
| 63 | 40 | 16 | | **721 200 174** | 0.347 | 34 | 34 | 77 | 72 | 60 |
| 63 | 50 | 16 | | **721 200 170** | 0.354 | 34 | 34 | 77 | 72 | 65 |
| 75 | 32 | 16 | 2 ½ | **721 200 181** | 0.535 | 40 | 41 | 92 | 84 | 63 |
| 75 | 40 | 16 | 2 ½ | **721 200 182** | 0.555 | 40 | 41 | 92 | 84 | 67 |
| 75 | 50 | 16 | 2 ½ | **721 200 183** | 0.541 | 40 | 41 | 92 | 84 | 72 |
| 75 | 63 | 16 | 2 ½ | **721 200 184** | 0.570 | 40 | 41 | 92 | 84 | 79 |
| 90 | 32 | 16 | | **721 200 142** | 0.855 | 46 | 55 | 110 | 97 | 77 |
| 90 | 50 | 16 | | **721 200 144** | 0.907 | 46 | 55 | 110 | 97 | 86 |
| 90 | 63 | 16 | | **721 200 145** | 0.931 | 46 | 55 | 110 | 97 | 93 |
| 90 | 75 | 16 | | **721 200 146** | 0.959 | 46 | 55 | 110 | 97 | 99 |
| 110 | 32 | 16 | | **721 200 135** | 1.441 | 56 | 67 | 133 | 117 | 89 |
| 110 | 50 | 16 | | **721 200 136** | 1.471 | 56 | 67 | 133 | 117 | 98 |
| 110 | 63 | 16 | | **721 200 132** | 1.522 | 56 | 65 | 133 | 117 | 103 |
| 110 | 75 | 16 | | **721 200 133** | 1.543 | 56 | 65 | 133 | 117 | 109 |
| 110 | 90 | 16 | | **721 200 137** | 1.634 | 56 | 65 | 133 | 117 | 116 |
| 125 | 50 | 16 | | **721 200 139** | 1.970 | 64 | 75 | 151 | 133 | 106 |
| 125 | 90 | 16 | | **721 200 140** | 2.200 | 64 | 75 | 151 | 133 | 126 |
| 140 | 50 | 16 | 5 | **721 200 148** | 3.235 | 72 | 82 | 172 | 148 | 113 |
| 140 | 75 | 16 | 5 | **721 200 149** | 3.319 | 72 | 78 | 172 | 148 | 122 |
| 140 | 110 | 16 | 5 | **721 200 150** | 3.422 | 72 | 74 | 172 | 148 | 135 |
| 160 | 110 | 16 | | **721 200 152** | 4.305 | 81 | 81 | 192 | 167 | 142 |
| 200 | 110 | 10 | | **721 200 153** | 8.782 | 107 | 131 | 232 | 213 | 192 |
| 200 | 160 | 10 | | **721 200 154** | 8.036 | 107 | 106 | 232 | 213 | 192 |
| 225 | 110 | 10 | | **721 200 156** | 10.619 | 120 | 143 | 257 | 239 | 204 |
| 225 | 160 | 10 | | **721 200 157** | 9.760 | 120 | 119 | 257 | 239 | 205 |
| 250 | 160 | 10 | | **721 200 159** | 14.520 | 132 | 151 | 282 | 263 | 237 |
| 250 | 200 | 10 | | **721 200 162** | 12.213 | 132 | 131 | 282 | 263 | 237 |
| 280 | 160 | 10 | | **721 200 165** | 18.402 | 120 | 180 | 318 | 266 | 266 |
| 280 | 225 | 10 | | **721 200 167** | 16.145 | 120 | 148 | 318 | 266 | 268 |
| 315 | 160 | 6 | | **721 200 169** | 22.189 | 120 | 197 | 356 | 284 | 283 |
| 315 | 225 | 6 | | **721 200 172** | 20.154 | 120 | 165 | 356 | 284 | 284 |
| 400 | 225 | 6 | | **721 200 176** | 40.000 | 163 | 258 | 442 | 369 | 377 |
| 400 | 315 | 6 | | **721 200 180** | 35.000 | 163 | 213 | 442 | 369 | 377 |

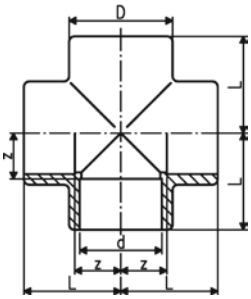





## Tee 45° PVC-U metric

| d (mm) | d (inch) | Size (inch) | PN (bar) | Code | Weight (kg) | z (mm) | z1 (mm) | D (mm) | L (mm) | L1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 10 | | | 10 | **721 250 103** | 0.013 | 18 | 4 | 16 | 46 | 30 |
| 12 | | | 10 | **721 250 104** | 0.014 | 21 | 4 | 18 | 49 | 33 |
| 16 | | | 10 | **721 250 105** | 0.022 | 25 | 5 | 23 | 58 | 39 |
| 20 | | | 10 | **721 250 106** | 0.035 | 30 | 6 | 28 | 68 | 46 |
| 25 | | | 10 | **721 250 107** | 0.056 | 36 | 9 | 33 | 83 | 55 |
| 32 | | | 10 | **721 250 108** | 0.096 | 45 | 10 | 41 | 99 | 67 |
| 40 | | | 10 | **721 250 109** | 0.159 | 56 | 10 | 50 | 118 | 82 |
| 50 | | | 10 | **721 250 110** | 0.265 | 66 | 12 | 60 | 140 | 97 |
| 63 | | | 10 | **721 250 111** | 0.439 | 85 | 14 | 74 | 175 | 123 |
| 75 | 2 ½ | 2 ½ | 6 | **721 250 112** | 0.816 | 101 | 18 | 91 | 207 | 145 |
| 90 | | | 6 | **721 250 113** | 1.275 | 122 | 20 | 107 | 245 | 173 |
| 110 | | | 6 | **721 250 114** | 2.579 | 149 | 27 | 134 | 298 | 210 |
| 125 | | | 6 | **721 250 115** | 3.616 | 167 | 30 | 147 | 335 | 236 |
| 140 | 5 | 5 | 6 | **721 250 116** | 5.628 | 190 | 34 | 168 | 376 | 266 |
| 160 | | | 6 | **721 250 117** | 7.187 | 213 | 41 | 190 | 428 | 300 |
| 200 | | | 6 | **721 250 119** | 12.314 | 265 | 48 | 232 | 527 | 372 |
| 225 | | | 6 | **721 250 120** | 15.735 | 296 | 54 | 260 | 590 | 416 |
| 250 | | | 6 | **721 250 121** | 20.350 | 330 | 60 | 286 | 654 | 462 |

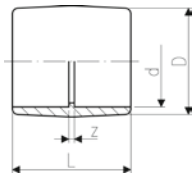





## Cross PVC-U metric

| d (mm) | d (inch) | PN (bar) | Size (inch) | Code | Weight (kg) | D (mm) | L (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| 12 | | 16 | | **721 300 104** | 0.010 | 18 | 20 | 8 |
| 16 | | 16 | | **721 300 105** | 0.020 | 23 | 24 | 10 |
| 20 | | 16 | | **721 300 106** | 0.036 | 29 | 27 | 11 |
| 25 | | 16 | | **721 300 107** | 0.054 | 35 | 33 | 14 |
| 32 | | 16 | | **721 300 108** | 0.092 | 43 | 39 | 17 |
| 40 | | 16 | | **721 300 109** | 0.155 | 52 | 49 | 23 |
| 50 | | 16 | | **721 300 110** | 0.259 | 63 | 59 | 28 |
| 63 | | 16 | | **721 300 111** | 0.482 | 79 | 72 | 34 |
| 75 | 2 ½ | 10 | 2 ½ | **721 300 112** | 0.725 | 92 | 83 | 40 |
| 90 | | 10 | | **721 300 113** | 1.221 | 106 | 97 | 48 |
| 110 | | 10 | | **721 300 114** | 2.111 | 128 | 117 | 59 |

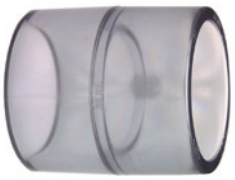


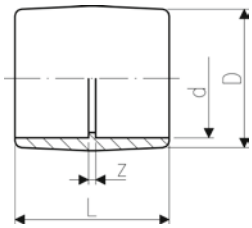



## Socket equal PVC-U metric

[1] Socket d355 and d400 fabricated from pipe. The socket length can vary up to +/- 20mm

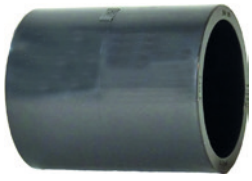
| | d (mm) | d (inch) | PN (bar) | Code | Weight (kg) | z (mm) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|---|---|
| | 6 | | 16 | **721 910 101** | 0.004 | 3 | 12 | 27 |
| | 8 | | 16 | **721 910 102** | 0.005 | 3 | 14 | 27 |
| | 10 | | 16 | **721 910 103** | 0.004 | 3 | 16 | 27 |
| | 12 | | 16 | **721 910 104** | 0.004 | 3 | 19 | 27 |
| | 16 | | 16 | **721 910 105** | 0.006 | 3 | 22 | 31 |
| | 20 | | 16 | **721 910 106** | 0.011 | 3 | 26 | 35 |
| | 25 | | 16 | **721 910 107** | 0.015 | 3 | 32 | 41 |
| | 32 | | 16 | **721 910 108** | 0.026 | 3 | 39 | 47 |
| | 40 | | 16 | **721 910 109** | 0.045 | 3 | 48 | 55 |
| | 50 | | 16 | **721 910 110** | 0.064 | 3 | 58 | 65 |
| | 63 | | 16 | **721 910 111** | 0.187 | 3 | 73 | 79 |
| | 75 | 2 ½ | 16 | **721 910 112** | 0.188 | 4 | 87 | 92 |
| | 90 | | 16 | **721 910 113** | 0.328 | 5 | 105 | 107 |
| | 110 | | 16 | **721 910 114** | 0.554 | 6 | 128 | 128 |
| | 125 | | 16 | **721 910 115** | 0.825 | 7 | 142 | 145 |
| | 140 | 5 | 16 | **721 910 116** | 1.118 | 7 | 162 | 159 |
| | 160 | | 16 | **721 910 117** | 1.540 | 8 | 183 | 180 |
| | 200 | | 10 | **721 910 119** | 2.559 | 9 | 221 | 221 |
| | 225 | | 10 | **721 910 120** | 3.519 | 10 | 253 | 248 |
| | 250 | | 10 | **721 910 121** | 5.394 | 16 | 284 | 284 |
| | 280 | | 10 | **721 910 122** | 8.312 | 17 | 317 | 315 |
| | 315 | | 6 | **721 910 123** | 10.388 | 17 | 356 | 349 |
| 1 | 355 | | 6 | **721 910 124** | 10.706 | 68 | 383 | 480 |
| 1 | 400 | | 6 | **721 910 125** | 11.326 | 73 | 425 | 531 |

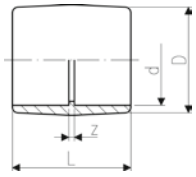





## Socket equal PVC-U transparent metric

| d (mm) | PN (bar) | Code | Weight (kg) | z (mm) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|
| 16 | 16 | **752 910 105** | 0.009 | 3 | 23 | 31 |
| 20 | 16 | **752 910 106** | 0.012 | 3 | 27 | 35 |
| 25 | 16 | **752 910 107** | 0.016 | 3 | 32 | 41 |
| 32 | 16 | **752 910 108** | 0.027 | 3 | 40 | 47 |
| 40 | 16 | **752 910 109** | 0.061 | 3 | 52 | 55 |
| 50 | 16 | **752 910 110** | 0.068 | 3 | 60 | 65 |
| 63 | 16 | **752 910 111** | 0.115 | 3 | 75 | 79 |





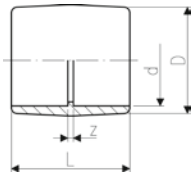

## Adaptor socket PVC-U metric Inch/BS

**Model:**

- With solvent cement sockets metric and BS inch

| d (mm) | PN (bar) | Size (inch) | d (inch) | Code | Weight (kg) | z (mm) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|---|---|
| 16 | 16 | ⅜ | ⅜ | **721 913 105** | 0.010 | 5 | 23 | 35 |
| 20 | 16 | ½ | ½ | **721 913 106** | 0.012 | 5 | 27 | 38 |
| 25 | 16 | ¾ | ¾ | **721 913 107** | 0.020 | 5 | 33 | 45 |
| 32 | 16 | 1 | 1 | **721 913 108** | 0.031 | 5 | 41 | 51 |
| 40 | 16 | 1 ¼ | 1 ¼ | **721 913 109** | 0.054 | 5 | 51 | 60 |

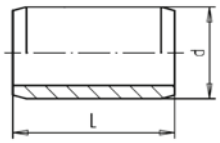
table continued on the next page




| d (mm) | PN (bar) | Size (inch) | d (inch) | Code | Weight (kg) | z (mm) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|---|---|
| 50 | 16 | 1 ½ | 1 ½ | **721 913 110** | 0.074 | 4 | 59 | 65 |
| 63 | 16 | 2 | 2 | **721 913 111** | 0.155 | 5 | 75 | 79 |
| 90 | 16 | 3 | 3 | **721 913 113** | 0.340 | 6 | 104 | 108 |
| 110 | 16 | 4 | 4 | **721 913 115** | 0.488 | 4 | 128 | 128 |

## Barrel nipple PVC-U metric



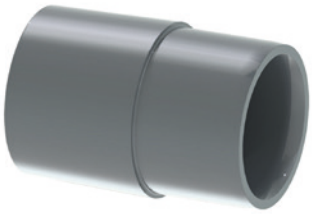


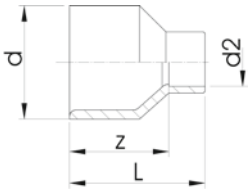

**Model:**

- With solvent cement spigots on both sides
- Overall length L = 2 x socket length
- For the shortest possible distance between fittings

| d (mm) | Size (inch) | PN (bar) | d (inch) | Code | Weight (kg) | L (mm) |
|---|---|---|---|---|---|---|
| 16 | | 16 | | **721 900 905** | 0.002 | 28 |
| 20 | | 16 | | **721 900 906** | 0.005 | 32 |
| 25 | | 16 | | **721 900 907** | 0.009 | 38 |
| 32 | | 16 | | **721 900 908** | 0.015 | 44 |
| 40 | | 16 | | **721 900 909** | 0.027 | 52 |
| 50 | | 16 | | **721 900 910** | 0.048 | 62 |
| 63 | | 16 | | **721 900 911** | 0.092 | 76 |
| 75 | 2 ½ | 16 | 2 ½ | **721 900 912** | 0.156 | 88 |
| 90 | | 16 | | **721 900 913** | 0.260 | 102 |
| 110 | | 16 | | **721 900 914** | 0.455 | 122 |
| 125 | | 16 | | **721 900 915** | 0.673 | 138 |
| 140 | 5 | 16 | 5 | **721 900 916** | 0.932 | 152 |
| 160 | | 16 | | **721 900 917** | 1.565 | 192 |
| 200 | | 10 | | **721 900 919** | 1.779 | 212 |
| 225 | | 10 | | **721 900 920** | 2.566 | 238 |

## Reducing bush long PVC-U metric



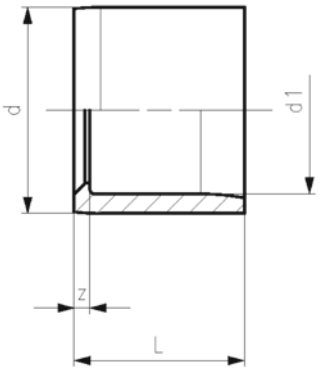



**Model:**

- With solvent cement spigot and socket metric

| d (mm) | d2 (mm) | PN (bar) | Size (inch) | Code | Weight (kg) | z (mm) | L (mm) |
|---|---|---|---|---|---|---|---|
| 8 | 6 | 16 | | **721 910 323** | 0.003 | 15 | 27 |
| 10 | 6 | 16 | | **721 910 326** | 0.003 | 15 | 27 |
| 10 | 8 | 16 | | **721 910 325** | 0.003 | 15 | 27 |
| 20 | 16 | 16 | | **721 910 334** | 0.009 | 21 | 35 |
| 25 | 20 | 16 | | **721 910 337** | 0.014 | 25 | 41 |
| 32 | 25 | 16 | | **721 910 341** | 0.024 | 30 | 49 |
| 40 | 32 | 16 | | **721 910 346** | 0.044 | 36 | 58 |
| 50 | 40 | 16 | | **721 910 352** | 0.074 | 44 | 70 |
| 63 | 50 | 16 | | **721 910 358** | 0.148 | 54 | 85 |
| 75 | 63 | 16 | 2 ½ | **721 910 364** | 0.211 | 62 | 100 |
| 90 | 75 | 16 | | **721 910 370** | 0.335 | 74 | 118 |
| 140 | 110 | 16 | 5 | **721 910 385** | 0.808 | 111 | 172 |





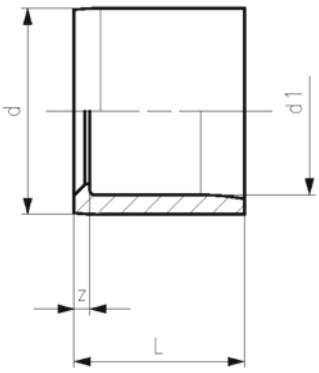

## Reducing bush short PVC-U metric

**Model:**

- With solvent cement spigot and socket metric

| d (mm) | d1 (mm) | PN (bar) | Size (inch) | Code | Weight (kg) | z (mm) | L (mm) |
|---|---|---|---|---|---|---|---|
| 12 | 8 | 16 | | **721 900 329** | 0.002 | 2 | 14 |
| 16 | 12 | 16 | | **721 900 331** | 0.002 | 2 | 14 |
| 20 | 16 | 16 | | **721 900 334** | 0.002 | 2 | 16 |
| 25 | 20 | 16 | | **721 900 337** | 0.004 | 3 | 19 |
| 32 | 20 | 16 | | **721 900 342** | 0.014 | 6 | 22 |
| 32 | 25 | 16 | | **721 900 341** | 0.009 | 3 | 22 |
| 40 | 20 | 16 | | **721 900 348** | 0.021 | 10 | 26 |
| 40 | 25 | 16 | | **721 900 347** | 0.021 | 7 | 26 |
| 40 | 32 | 16 | | **721 900 346** | 0.016 | 4 | 26 |
| 50 | 20 | 16 | | **721 900 355** | 0.037 | 15 | 31 |
| 50 | 25 | 16 | | **721 900 354** | 0.034 | 12 | 31 |
| 50 | 32 | 16 | | **721 900 353** | 0.036 | 9 | 31 |
| 50 | 40 | 16 | | **721 900 352** | 0.030 | 5 | 31 |
| 63 | 32 | 16 | | **721 900 360** | 0.064 | 16 | 38 |
| 63 | 40 | 16 | | **721 900 359** | 0.067 | 12 | 38 |
| 63 | 50 | 16 | | **721 900 358** | 0.058 | 7 | 38 |
| 75 | 50 | 16 | 2 ½ | **721 900 365** | 0.109 | 13 | 44 |
| 75 | 63 | 16 | 2 ½ | **721 900 364** | 0.078 | 6 | 44 |
| 90 | 50 | 16 | | **721 900 372** | 0.181 | 20 | 51 |
| 90 | 63 | 16 | | **721 900 371** | 0.183 | 13 | 51 |
| 90 | 75 | 16 | | **721 900 370** | 0.135 | 7 | 51 |
| 110 | 50 | 16 | | **721 900 379** | 0.316 | 30 | 61 |
| 110 | 63 | 16 | | **721 900 378** | 0.308 | 23 | 61 |
| 110 | 75 | 16 | | **721 900 377** | 0.295 | 17 | 61 |
| 110 | 90 | 16 | | **721 900 376** | 0.259 | 10 | 61 |
| 125 | 90 | 16 | | **721 900 381** | 0.465 | 18 | 69 |
| 125 | 110 | 16 | | **721 900 380** | 0.267 | 8 | 69 |
| 140 | 90 | 16 | 5 | **721 900 386** | 0.562 | 25 | 76 |
| 140 | 110 | 16 | 5 | **721 900 385** | 0.605 | 15 | 76 |
| 140 | 125 | 16 | 5 | **721 900 384** | 0.331 | 7 | 76 |
| 160 | 90 | 16 | | **721 900 391** | 0.751 | 35 | 86 |
| 160 | 110 | 16 | | **721 900 390** | 0.883 | 25 | 86 |
| 160 | 140 | 16 | | **721 900 388** | 0.551 | 10 | 86 |
| 200 | 110 | 10 | | **721 900 393** | 1.985 | 45 | 108 |
| 200 | 125 | 10 | | **721 900 325** | 2.024 | 37 | 108 |
| 200 | 140 | 10 | | **721 900 394** | 1.928 | 29 | 108 |
| 200 | 160 | 10 | | **721 900 392** | 1.085 | 20 | 108 |
| 225 | 110 | 10 | | **721 900 397** | 2.544 | 57 | 120 |
| 225 | 125 | 10 | | **721 900 399** | 2.563 | 49 | 120 |
| 225 | 140 | 10 | | **721 900 398** | 2.609 | 41 | 120 |
| 225 | 160 | 10 | | **721 900 396** | 2.199 | 31 | 119 |
| 225 | 200 | 10 | | **721 900 181** | 1.360 | 13 | 119 |
| 250 | 125 | 10 | | **721 900 326** | 3.150 | 11 | 131 |
| 250 | 140 | 10 | | **721 900 300** | 3.200 | 54 | 133 |
| 250 | 160 | 10 | | **721 900 301** | 3.390 | 44 | 133 |
| 250 | 200 | 10 | | **721 900 302** | 3.198 | 24 | 133 |
| 250 | 225 | 10 | | **721 900 303** | 1.686 | 11 | 133 |
| 280 | 140 | 10 | | **721 900 307** | 4.157 | 69 | 148 |
| 280 | 160 | 10 | | **721 900 308** | 4.170 | 60 | 148 |
| 280 | 200 | 10 | | **721 900 304** | 4.577 | 39 | 148 |
| 280 | 225 | 10 | | **721 900 305** | 4.409 | 27 | 146 |
| 280 | 250 | 10 | | **721 900 306** | 2.515 | 14 | 148 |
| 315 | 160 | 6 | | **721 900 313** | 5.188 | 77 | 166 |
| 315 | 200 | 6 | | **721 900 309** | 5.480 | 57 | 166 |
| 315 | 225 | 6 | | **721 900 310** | 6.035 | 44 | 166 |
| 315 | 250 | 6 | | **721 900 311** | 6.481 | 32 | 166 |
| 315 | 280 | 6 | | **721 900 312** | 4.055 | 28 | 167 |
| 355 | 315 | 6 | | **721 900 315** | 5.792 | 23 | 206 |

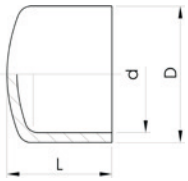
table continued on the next page




| d (mm) | d1 (mm) | PN (bar) | Size (inch) | Code | Weight (kg) | z (mm) | L (mm) |
|---|---|---|---|---|---|---|---|
| 400 | 250 | 6 | | **721 900 319** | 11.528 | 60 | 206 |
| 400 | 280 | 6 | | **721 900 320** | 11.366 | 60 | 206 |
| 400 | 315 | 6 | | **721 900 321** | 13.006 | 42 | 206 |
| 400 | 355 | 6 | | **721 900 322** | 7.524 | 22 | 206 |

## Cap PVC-U metric / BS



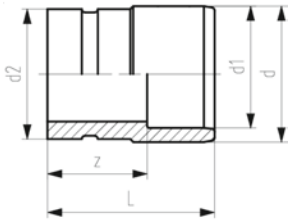



| | d (mm) | d (inch) | PN (bar) | Code | Weight (kg) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|---|
| | 12 | | 16 | **721 960 104** | 0.004 | 19 | 15 |
| | 16 | | 16 | **721 960 105** | 0.005 | 23 | 21 |
| | 20 | | 16 | **721 960 106** | 0.008 | 27 | 24 |
| | 25 | | 16 | **721 960 107** | 0.013 | 33 | 28 |
| | 32 | | 16 | **721 960 108** | 0.020 | 40 | 32 |
| | 40 | | 16 | **721 960 109** | 0.029 | 47 | 37 |
| | 50 | | 16 | **721 960 110** | 0.051 | 58 | 45 |
| | 63 | | 16 | **721 960 111** | 0.095 | 73 | 56 |
| * | 75 | 2 ½ | 16 | **721 960 112** | 0.152 | 87 | 65 |
| | 90 | | 16 | **721 960 113** | 0.269 | 105 | 77 |
| | 110 | | 16 | **721 960 114** | 0.457 | 128 | 94 |
| * | 140 | 5 | 10 | **721 960 116** | 1.036 | 164 | 114 |
| | 160 | | 10 | **721 960 117** | 1.534 | 188 | 130 |
| | 200 | | 10 | **721 960 119** | 2.614 | 230 | 170 |
| | 225 | | 10 | **721 960 120** | 3.320 | 257 | 185 |
| | 280 | | 10 | **721 960 122** | 6.200 | 318 | 230 |
| | 315 | | 6 | **721 960 123** | 8.500 | 356 | 255 |
| | | ⅜ | 15 | **721 961 105** | 0.007 | 26 | 23 |
| | | ½ | 15 | **721 961 106** | 0.009 | 30 | 25 |
| | | ¾ | 15 | **721 961 107** | 0.016 | 37 | 30 |
| | | 1 | 15 | **721 961 108** | 0.025 | 44 | 34 |
| | | 1 ¼ | 15 | **721 961 109** | 0.038 | 51 | 41 |
| | | 1 ½ | 15 | **721 961 110** | 0.071 | 62 | 44 |
| | | 2 | 15 | **721 961 111** | 0.133 | 78 | 54 |
| | | 3 | 15 | **721 961 113** | 0.323 | 112 | 77 |
| | | 4 | 15 | **721 962 115** | 0.762 | 141 | 101 |

# Adaptor fittings

## Adaptor fitting PVC-U metric - Victaulic





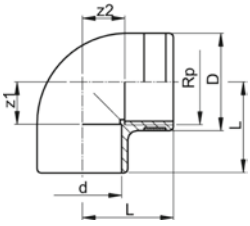

**Model:**

- With solvent cement spigot and socket metric
- For metal couplings (type Victaulic)

| d (mm) | Size (inch) | PN (bar) | d1 (mm) | d2- victaulic (inch) | Code | Weight (kg) | L (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| 50 | | 10 | 40 | 1 1/2 | **721 910 090** | 0.150 | 71 | 45 |
| 63 | | 10 | 50 | 2 | **721 910 091** | 0.200 | 78 | 47 |
| 75 | 2 ½ | 10 | 63 | 2 1/2 | **721 910 092** | 0.250 | 84 | 46 |

## Elbow 90° PVC-U metric Rp



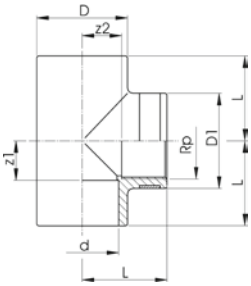



**Model:**

- With solvent cement socket metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | z1 (mm) | z2 (mm) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 12 | Rp | ¼ | 16 | **721 100 204** | 0.010 | 7 | 7 | 20 | 19 |
| 16 | Rp | ⅜ | 16 | **721 100 205** | 0.015 | 9 | 9 | 25 | 23 |
| 20 | Rp | ½ | 16 | **721 100 206** | 0.023 | 13 | 11 | 30 | 27 |
| 25 | Rp | ¾ | 16 | **721 100 207** | 0.035 | 16 | 15 | 35 | 33 |
| 32 | Rp | 1 | 16 | **721 100 208** | 0.060 | 19 | 19 | 45 | 39 |
| 40 | Rp | 1 ¼ | 16 | **721 100 209** | 0.122 | 23 | 27 | 55 | 50 |
| 50 | Rp | 1 ½ | 16 | **721 100 210** | 0.187 | 27 | 36 | 62 | 58 |
| 63 | Rp | 2 | 16 | **721 100 211** | 0.324 | 33 | 46 | 75 | 73 |





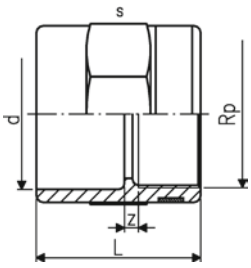

## Tee 90° PVC-U metric Rp

**Model:**

- With solvent cement socket metric, branch with parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | z1 (mm) | z2 (mm) | D (mm) | D1 (mm) | L (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 12 | Rp | ¼ | 16 | **721 200 204** | 0.015 | 7 | 7 | 17 | 20 | 19 |
| 16 | Rp | ⅜ | 16 | **721 200 205** | 0.027 | 9 | 9 | 21 | 25 | 23 |
| 20 | Rp | ½ | 16 | **721 200 206** | 0.029 | 11 | 13 | 26 | 30 | 29 |
| 25 | Rp | ¾ | 16 | **721 200 207** | 0.043 | 14 | 15 | 32 | 35 | 33 |
| 32 | Rp | 1 | 16 | **721 200 208** | 0.080 | 17 | 19 | 40 | 45 | 39 |
| 40 | Rp | 1 ¼ | 16 | **721 200 209** | 0.134 | 23 | 26 | 47 | 55 | 49 |
| 50 | Rp | 1 ½ | 16 | **721 200 210** | 0.212 | 27 | 36 | 59 | 59 | 59 |
| 63 | Rp | 2 | 16 | **721 200 211** | 0.379 | 33 | 46 | 74 | 75 | 71 |





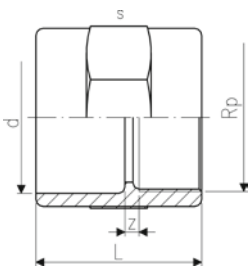

## Adaptor socket PVC-U metric Rp Reinforced

**Model:**

- With solvent cement socket metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | z (mm) | L (mm) | s (mm) |
|---|---|---|---|---|---|---|---|---|
| 12 | Rp | ¼ | 16 | **721 910 204** | 0.010 | 4 | 27 | 22 |
| 16 | Rp | ⅜ | 16 | **721 910 205** | 0.016 | 5 | 31 | 27 |
| 20 | Rp | ½ | 16 | **721 910 206** | 0.025 | 5 | 36 | 32 |
| 25 | Rp | ¾ | 16 | **721 910 207** | 0.032 | 5 | 40 | 36 |
| 32 | Rp | 1 | 16 | **721 910 208** | 0.057 | 5 | 45 | 46 |
| 40 | Rp | 1 ¼ | 16 | **721 910 209** | 0.087 | 5 | 51 | 55 |
| 50 | Rp | 1 ½ | 16 | **721 910 210** | 0.126 | 7 | 59 | 65 |
| 63 | Rp | 2 | 16 | **721 910 211** | 0.206 | 7 | 69 | 80 |





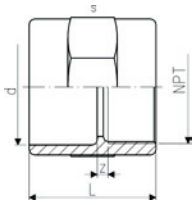

## Adaptor socket PVC-U metric Rp

**Model:**

- With solvent cement socket metric and parallel female thread Rp
- Connection to plastic thread only
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | z (mm) | L (mm) | s (mm) |
|---|---|---|---|---|---|---|---|---|
| 75 | Rp | 2 ½ | 10 | **721 916 012** | 0.220 | 7 | 82 | 90 |
| 90 | Rp | 3 | 10 | **721 916 013** | 0.365 | 9 | 94 | 110 |
| 110 | Rp | 4 | 10 | **721 916 014** | 0.536 | 9 | 110 | 130 |





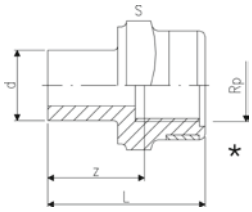

## Adaptor socket PVC-U metric NPT

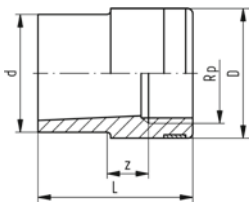
**Model:**

- With solvent cement socket metric and NPT (ASTM) taper female thread
- Connection to plastic thread only
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | z (mm) | L (mm) | s (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | NPT | ½ | 10 | **721 914 206** | 0.021 | 5 | 35 | 32 |
| 25 | NPT | ¾ | 10 | **721 914 207** | 0.028 | 6 | 40 | 36 |
| 32 | NPT | 1 | 10 | **721 914 208** | 0.049 | 6 | 45 | 46 |
| 40 | NPT | 1 ¼ | 10 | **721 914 209** | 0.076 | 6 | 51 | 55 |
| 50 | NPT | 1 ½ | 10 | **721 914 210** | 0.110 | 10 | 59 | 65 |
| 63 | NPT | 2 | 10 | **721 914 211** | 0.175 | 10 | 69 | 80 |





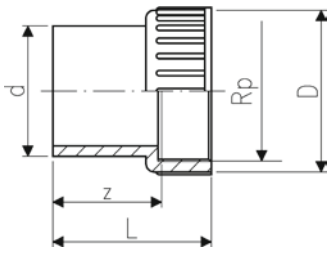

## Reducing bush PVC-U metric Rp

**Model:**

- With solvent cement spigot metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

| | d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | z (mm) | D (mm) | L (mm) | s (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| * | 12 | Rp | ¼ | 16 | **721 910 404** | 0.008 | 3 | 20 | 27 | 22 |
| | 20 | Rp | ⅜ | 16 | **721 910 434** | 0.014 | 7 | 25 | 35 | |
| | 25 | Rp | ½ | 16 | **721 910 437** | 0.021 | 7 | 30 | 41 | |
| | 32 | Rp | ¾ | 16 | **721 910 441** | 0.032 | 15 | 35 | 48 | |
| | 40 | Rp | 1 | 16 | **721 910 446** | 0.058 | 20 | 45 | 56 | |
| | 50 | Rp | 1 ¼ | 16 | **721 910 452** | 0.097 | 20 | 55 | 66 | |
| | 63 | Rp | 1 ½ | 16 | **721 910 458** | 0.151 | 10 | 62 | 77 | |





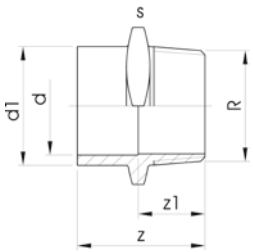

## Adaptor PVC-U metric Rp

**Model:**

- With solvent cement spigot metric and parallel female thread Rp
- Connection to plastic thread only
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | z (mm) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | Rp | ½ | 10 | **721 900 406** | 0.012 | 22 | 28 | 37 |
| 25 | Rp | ¾ | 10 | **721 900 407** | 0.018 | 25 | 34 | 41 |
| 32 | Rp | 1 | 10 | **721 900 408** | 0.035 | 29 | 42 | 48 |
| 40 | Rp | 1 ¼ | 10 | **721 900 409** | 0.063 | 34 | 52 | 56 |
| 50 | Rp | 1 ½ | 10 | **721 900 410** | 0.097 | 40 | 62 | 61 |
| 63 | Rp | 2 | 10 | **721 900 411** | 0.170 | 49 | 77 | 74 |





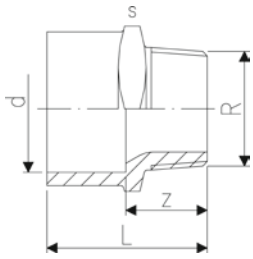

## Adaptor socket nipple PVC-U metric R

**Model:**

- With solvent cement spigot/socket reducing metric and taper male thread R
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

| d (mm) | Thread Type | Size (inch) | PN (bar) | d1 (mm) | Code | Weight (kg) | z (mm) | z1 (mm) | s (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 12 | R | ⅜ | 16 | 16 | **721 910 555** | 0.010 | 35 | 23 | 27 |
| 16 | R | ½ | 16 | 20 | **721 910 556** | 0.016 | 42 | 28 | 32 |
| 20 | R | ¾ | 16 | 25 | **721 910 557** | 0.023 | 47 | 31 | 36 |
| 25 | R | 1 | 16 | 32 | **721 910 558** | 0.040 | 54 | 35 | 46 |
| 32 | R | 1 ¼ | 16 | 40 | **721 910 559** | 0.061 | 60 | 38 | 55 |
| 40 | R | 1 ½ | 16 | 50 | **721 910 560** | 0.094 | 66 | 40 | 65 |
| 50 | R | 2 | 16 | 63 | **721 910 561** | 0.164 | 78 | 47 | 80 |





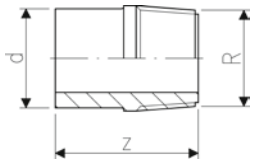

## Adaptor bush equal PVC-U metric R

**Model:**

- With solvent cement socket metric and taper male thread R
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | z (mm) | L (mm) | s (mm) |
|---|---|---|---|---|---|---|---|---|
| 16 | R | ⅜ | 16 | **721 910 705** | 0.011 | 20 | 34 | 27 |
| 20 | R | ½ | 16 | **721 910 706** | 0.018 | 24 | 40 | 32 |
| 25 | R | ¾ | 16 | **721 910 707** | 0.025 | 25 | 44 | 36 |
| 32 | R | 1 | 16 | **721 910 708** | 0.039 | 28 | 50 | 46 |
| 40 | R | 1 ¼ | 16 | **721 910 709** | 0.061 | 31 | 57 | 55 |
| 50 | R | 1 ½ | 16 | **721 910 710** | 0.092 | 32 | 63 | 65 |
| 63 | R | 2 | 16 | **721 910 711** | 0.161 | 38 | 76 | 80 |
| 75 | R | 2 ½ | 10 | **721 910 712** | 0.227 | 42 | 86 | 90 |
| 90 | R | 3 | 10 | **721 910 713** | 0.389 | 46 | 97 | 110 |
| 110 | R | 4 | 10 | **721 910 714** | 0.572 | 53 | 114 | 130 |






## Adaptor nipple PVC-U metric R

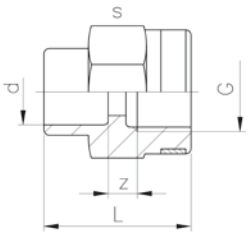
**Model:**

- With solvent cement spigot metric and taper male thread R
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | z (mm) |
|---|---|---|---|---|---|---|
| 16 | R | ⅜ | 10 | **721 913 505** | 0.006 | 31 |
| 20 | R | ½ | 10 | **721 913 506** | 0.010 | 35 |
| 25 | R | ¾ | 10 | **721 913 507** | 0.017 | 40 |
| 32 | R | 1 | 10 | **721 913 508** | 0.026 | 46 |

## Manometer adaptor sockets PVC-U metric G





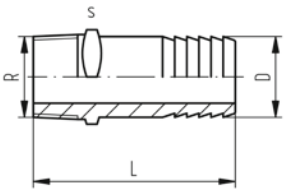

**Model:**

- With solvent cement socket metric and female thread G
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | z (mm) | L (mm) | s (mm) |
|---|---|---|---|---|---|---|---|---|
| 12 | G | ¼ | 16 | **721 916 204** | 0.010 | 4 | 27 | 22 |
| 16 | G | ½ | 16 | **721 916 206** | 0.026 | 7 | 36 | 32 |

## Hose connector PVC-U R





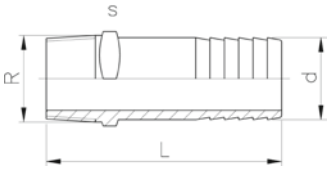

**Model:**

- With taper male thread R
- With parallel hose connector
- Do not use thread sealing pastes that are harmful to PVC-U

| Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | D (mm) | L (mm) | s (mm) |
|---|---|---|---|---|---|---|---|
| R | ¼ | 10 | **721 960 704** | 0.003 | 12 | 59 | 14 |
| R | ⅜ | 10 | **721 960 705** | 0.006 | 16 | 67 | 19 |
| R | ½ | 10 | **721 960 706** | 0.019 | 20 | 86 | 22 |
| R | ¾ | 10 | **721 960 707** | 0.026 | 25 | 92 | 27 |
| R | 1 | 10 | **721 960 708** | 0.048 | 30 | 103 | 36 |
| R | 1 ¼ | 10 | **721 960 709** | 0.079 | 40 | 115 | 46 |

## Hose connector PVC-U R reduced





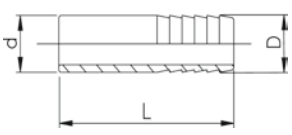

**Model:**

- With taper male thread R
- With parallel hose connector
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

| d (mm) | Thread Type | Size (inch) | Code | Weight (kg) | s (mm) | L (mm) |
|---|---|---|---|---|---|---|
| 14 | R | ½ | **721 961 706** | 0.012 | 22 | 70 |
| 20 | R | ¾ | **721 961 707** | 0.021 | 27 | 80 |
| 27 | R | 1 | **721 961 708** | 0.042 | 36 | 90 |

## Hose connector PVC-U metric



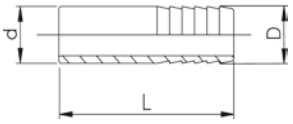



**Model:**

- With solvent cement spigot metric and parallel hose connection

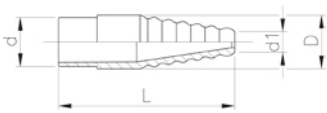
| d (mm) | PN (bar) | Code | Weight (kg) | D (mm) | L (mm) |
|---|---|---|---|---|---|
| 10 | 16 | **721 960 403** | 0.002 | 8 | 47 |
| 12 | 16 | **721 960 404** | 0.003 | 12 | 51 |
| 16 | 16 | **721 960 405** | 0.008 | 16 | 57 |
| 20 | 16 | **721 960 406** | 0.016 | 20 | 73 |
| 25 | 16 | **721 960 407** | 0.021 | 25 | 79 |
| 32 | 16 | **721 960 408** | 0.035 | 30 | 89 |

table continued on the next page




| d (mm) | PN (bar) | Code | Weight (kg) | D (mm) | L (mm) |
|---|---|---|---|---|---|
| 32 | 16 | **721 960 508** | 0.035 | 32 | 89 |
| 40 | 16 | **721 960 409** | 0.060 | 40 | 100 |
| 50 | 16 | **721 960 410** | 0.112 | 50 | 105 |
| 63 | 16 | **721 960 411** | 0.180 | 60 | 120 |





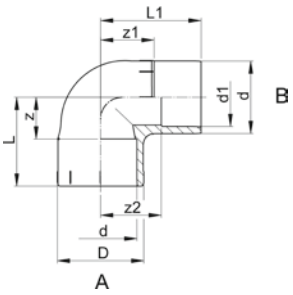

## Laboratory hose connector PVC-U metric

**Model:**

- With solvent cement spigot metric and tapered hose connection

| d (mm) | PN (bar) | Code | Weight (kg) | d1 (mm) | D (mm) | L (mm) |
|---|---|---|---|---|---|---|
| 10 | 16 | **721 960 303** | 0.004 | 6 | 12 | 51 |
| 12 | 16 | **721 960 304** | 0.004 | 6 | 12 | 51 |
| 16 | 16 | **721 960 305** | 0.007 | 8 | 16 | 57 |
| 20 | 16 | **721 960 306** | 0.016 | 11 | 22 | 73 |





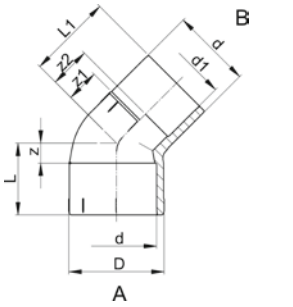

## PRO-FIT elbow 90° PVC-U metric

**Model:**

- Outlet: A = solvent cemented socket metric
- Outlet: B = solvent cemented spigot in combination with reducing socket metric
- Direct connection from fitting to fitting allowing shortest possible overall length

| d (mm) | d1 (mm) | PN (bar) | Code | Weight (kg) | z (mm) | z1 (mm) | z2 (mm) | D (mm) | L (mm) | L1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 16 | 16 | **721 100 306** | 0.011 | 11 | 16 | 18 | 25 | 27 | 32 |
| 25 | 20 | 16 | **721 100 307** | 0.020 | 14 | 18 | 21 | 31 | 33 | 37 |
| 32 | 25 | 16 | **721 100 308** | 0.038 | 17 | 22 | 25 | 38 | 39 | 44 |
| 40 | 32 | 16 | **721 100 309** | 0.069 | 23 | 30 | 34 | 47 | 49 | 56 |
| 50 | 40 | 16 | **721 100 310** | 0.122 | 26 | 36 | 41 | 58 | 57 | 67 |
| 63 | 50 | 16 | **721 100 311** | 0.237 | 33 | 45 | 52 | 73 | 71 | 83 |





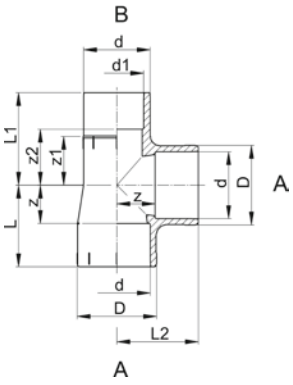

## PRO-FIT elbow 45° PVC-U metric

**Model:**

- Outlet: A = solvent cemented socket metric
- Outlet: B = solvent cemented spigot in combination with reducing socket metric
- Direct connection from fitting to fitting allowing shortest possible overall length

| d (mm) | d1 (mm) | PN (bar) | Code | Weight (kg) | z (mm) | z1 (mm) | z2 (mm) | D (mm) | L (mm) | L1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 16 | 16 | **721 150 306** | 0.010 | 5 | 9 | 11 | 25 | 21 | 25 |
| 25 | 20 | 16 | **721 150 307** | 0.015 | 6 | 11 | 14 | 31 | 25 | 30 |
| 32 | 25 | 16 | **721 150 308** | 0.027 | 8 | 13 | 16 | 38 | 30 | 35 |
| 40 | 32 | 16 | **721 150 309** | 0.053 | 10 | 17 | 21 | 47 | 36 | 43 |
| 50 | 40 | 16 | **721 150 310** | 0.090 | 12 | 18 | 23 | 58 | 43 | 49 |
| 63 | 50 | 16 | **721 150 311** | 0.175 | 14 | 23 | 30 | 73 | 52 | 61 |





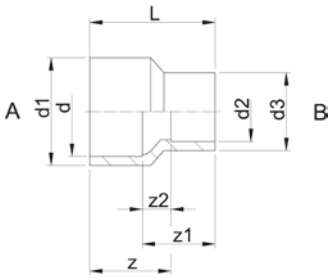

## PRO-FIT tee 90° equal PVC-U metric

**Model:**

- Outlet: A = solvent cemented socket metric
- Outlet: B = solvent cemented spigot in combination with reducing socket metric
- Direct connection from fitting to fitting allowing shortest possible overall length

| d (mm) | d1 (mm) | PN (bar) | Code | Weight (kg) | z (mm) | z1 (mm) | z2 (mm) | D (mm) | L (mm) | L1 (mm) | L2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 16 | 16 | **721 200 306** | 0.017 | 11 | 17 | 19 | 25 | 27 | 33 | 27 |
| 25 | 20 | 16 | **721 200 307** | 0.022 | 14 | 19 | 22 | 31 | 33 | 38 | 33 |
| 32 | 25 | 16 | **721 200 308** | 0.051 | 17 | 24 | 27 | 38 | 39 | 46 | 39 |
| 40 | 32 | 16 | **721 200 309** | 0.098 | 23 | 30 | 34 | 47 | 47 | 56 | 49 |
| 50 | 40 | 16 | **721 200 310** | 0.164 | 26 | 36 | 41 | 58 | 57 | 67 | 57 |
| 63 | 50 | 16 | **721 200 311** | 0.329 | 33 | 45 | 52 | 73 | 71 | 83 | 71 |






## PRO-FIT reducing bush PVC-U metric

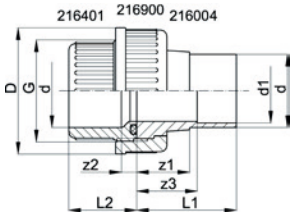
**Model:**

- Outlet: A and B = solvent cemented spigot in combination with reducing socket metric

| d (mm) | d1 (mm) | d2 (mm) | d3 (mm) | Size (inch) | PN (bar) | Code | Weight (kg) | z (mm) | z1 (mm) | z2 (mm) | L (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 14 | 8 | 12 | | 16 | **721 910 903** | 0.003 | 15 | 15 | 3 | 27 |
| 12 | 16 | 8 | 12 | | 16 | **721 910 905** | 0.004 | 18 | 18 | 6 | 30 |
| 12 | 16 | 10 | 16 | | 16 | **721 910 906** | 0.004 | 18 | 18 | 6 | 30 |
| 16 | 20 | 10 | 16 | | 16 | **721 910 908** | 0.003 | 21 | 19 | 7 | 33 |
| 16 | 20 | 12 | 16 | | 16 | **721 910 909** | 0.004 | 21 | 19 | 7 | 33 |
| 20 | 25 | 12 | 16 | | 16 | **721 910 910** | 0.008 | 25 | 21 | 9 | 37 |
| 20 | 25 | 16 | 20 | | 16 | **721 910 911** | 0.008 | 25 | 23 | 9 | 39 |
| 25 | 32 | 12 | 16 | | 16 | **721 910 912** | 0.014 | 30 | 23 | 11 | 42 |
| 25 | 32 | 16 | 20 | | 16 | **721 910 913** | 0.015 | 30 | 26 | 12 | 44 |
| 25 | 32 | 20 | 25 | | 16 | **721 910 914** | 0.017 | 30 | 27 | 11 | 46 |
| 32 | 40 | 16 | 20 | | 16 | **721 910 915** | 0.025 | 36 | 28 | 14 | 50 |
| 32 | 40 | 20 | 25 | | 16 | **721 910 916** | 0.026 | 36 | 30 | 14 | 52 |
| 32 | 40 | 25 | 32 | | 16 | **721 910 917** | 0.031 | 36 | 33 | 14 | 55 |
| 40 | 50 | 20 | 25 | | 16 | **721 910 918** | 0.045 | 44 | 34 | 18 | 60 |
| 40 | 50 | 25 | 32 | | 16 | **721 910 919** | 0.052 | 44 | 37 | 18 | 63 |
| 40 | 50 | 32 | 40 | | 16 | **721 910 920** | 0.058 | 44 | 40 | 18 | 66 |
| 50 | 63 | 25 | 32 | | 16 | **721 910 921** | 0.092 | 54 | 42 | 23 | 73 |
| 50 | 63 | 32 | 40 | | 16 | **721 910 922** | 0.098 | 54 | 45 | 23 | 76 |
| 50 | 63 | 40 | 50 | | 16 | **721 910 923** | 0.111 | 54 | 49 | 23 | 80 |
| 63 | 75 | 32 | 40 | | 16 | **721 910 924** | 0.127 | 62 | 46 | 24 | 84 |
| 63 | 75 | 40 | 50 | | 16 | **721 910 925** | 0.139 | 62 | 50 | 24 | 88 |
| 63 | 75 | 50 | 63 | | 16 | **721 910 926** | 0.167 | 62 | 55 | 24 | 93 |
| 75 | 90 | 40 | 50 | 2 ½ | 16 | **721 910 927** | 0.224 | 74 | 56 | 30 | 100 |
| 75 | 90 | 50 | 63 | 2 ½ | 16 | **721 910 928** | 0.253 | 74 | 61 | 30 | 105 |
| 75 | 90 | 63 | 75 | 2 ½ | 16 | **721 910 929** | 0.265 | 74 | 68 | 30 | 112 |






## PRO-FIT union PVC-U metric

**Model:**

- Union End: Solvent cemented spigot in combination with reducing socket metric
- Union Bush: Solvent socket metric
- Gasket: O-Ring EPDM code no. 748 410 005-011; FKM: 749 410 005-011

| | d (mm) | PN (bar) | d1 (mm) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| * | 16 | 16 | 12 | **721 510 305** | 0.029 | **721 510 330** | 0.029 |
| * | 20 | 16 | 16 | **721 510 306** | 0.046 | **721 510 331** | 0.044 |
| * | 25 | 16 | 20 | **721 510 307** | 0.073 | **721 510 332** | 0.073 |
| * | 32 | 16 | 25 | **721 510 308** | 0.097 | **721 510 333** | 0.095 |
| | 40 | 16 | 32 | **721 510 309** | 0.169 | **721 510 334** | 0.171 |
| | 50 | 16 | 40 | **721 510 310** | 0.250 | **721 510 335** | 0.250 |
| | 63 | 16 | 50 | **721 510 311** | 0.437 | **721 510 336** | 0.449 |

| | d (mm) | G (inch) | z1 (mm) | z2 (mm) | z3 (mm) | D (mm) | L1 (mm) | L2 (mm) |
|---|---|---|---|---|---|---|---|---|
| * | 16 | ¾ | 22 | 10 | 24 | 35 | 36 | 24 |
| * | 20 | 1 | 24 | 10 | 26 | 43 | 40 | 26 |
| * | 25 | 1 ¼ | 25 | 10 | 28 | 51 | 44 | 29 |
| * | 32 | 1 ½ | 27 | 10 | 30 | 58 | 49 | 33 |
| | 40 | 2 | 31 | 12 | 35 | 74 | 57 | 39 |
| | 50 | 2 ¼ | 35 | 14 | 40 | 83 | 66 | 46 |
| | 63 | 2 ¾ | 39 | 18 | 46 | 100 | 77 | 58 |

# Unions/tank adapters

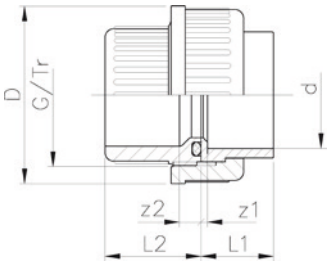
## Unions for solvent cement jointing



### Union PVC-U metric

**Model:**

- Union End: solvent socket metric
- Union Bush: Solvent socket metric
- Jointing face: With O-ring groove
- Gasket: O-Ring EPDM code no. 748 410 004-016; d90 748 410 248; FKM: 749 410 004-016; d90 749 410 248




| d (mm) | d (inch) | Size (inch) | PN (bar) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 10 | | | 16 | **721 510 103** | 0.021 | **721 510 128** | 0.020 |
| 12 | | | 16 | **721 510 104** | 0.020 | **721 510 129** | 0.019 |
| 16 | | | 16 | **721 510 105** | 0.025 | **721 510 130** | 0.025 |
| 20 | | | 16 | **721 510 106** | 0.041 | **721 510 131** | 0.042 |
| 25 | | | 16 | **721 510 107** | 0.058 | **721 510 132** | 0.058 |
| 32 | | | 16 | **721 510 108** | 0.083 | **721 510 133** | 0.084 |
| 40 | | | 16 | **721 510 109** | 0.147 | **721 510 134** | 0.152 |
| 50 | | | 16 | **721 510 110** | 0.203 | **721 510 135** | 0.207 |
| 63 | | | 16 | **721 510 111** | 0.356 | **721 510 136** | 0.361 |
| 75 | 2 ½ | 2 ½ | 10 | **721 510 112** | 0.614 | **721 510 137** | 0.621 |
| 90 | | | 10 | **721 510 313** | 0.920 | **721 510 338** | 0.929 |
| 110 | | | 10 | **721 510 114** | 1.434 | **721 510 139** | 1.492 |

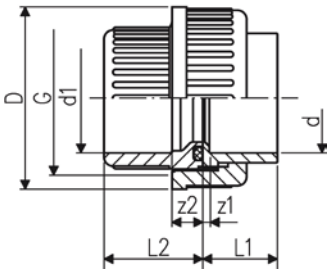
| d (mm) | z1 (mm) | z2 (mm) | D (mm) | L1 (mm) | L2 (mm) | G/Tr (inch) |
|---|---|---|---|---|---|---|
| 10 | 3 | 10 | 31 | 15 | 22 | 5/8 |
| 12 | 3 | 10 | 31 | 15 | 22 | 5/8 |
| 16 | 3 | 10 | 35 | 17 | 24 | 3/4 |
| 20 | 3 | 10 | 43 | 19 | 26 | 1 |
| 25 | 3 | 10 | 51 | 22 | 29 | 1 1/4 |
| 32 | 3 | 10 | 58 | 25 | 33 | 1 1/2 |
| 40 | 3 | 12 | 72 | 29 | 39 | 2 |
| 50 | 3 | 14 | 83 | 34 | 46 | 2 1/4 |
| 63 | 3 | 18 | 100 | 41 | 58 | 2 3/4 |
| 75 | 3 | 18 | 135 | 47 | 62 | Tr108x5 |
| 90 | 5 | 18 | 158 | 56 | 69 | Tr128x5 |
| 110 | 5 | 11 | 188 | 66 | 72 | Tr154x6 |



### Adaptor union PVC-U metric BS

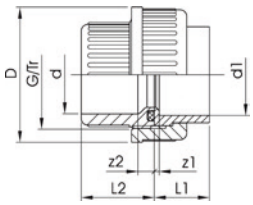
**Model:**

- Union End: Solvent cement socket metric
- Union Bush: Solvent cement socket BS inch
- Gasket: O-ring EPDM code no. 748 410 005-011
- Gasket: O-ring FKM code no. 749 410 005-011 (to be ordered separately)




| d (mm) | d1 (inch) | Size (inch) | PN (bar) | Code | Weight (kg) | G (inch) | z1 (mm) | z2 (mm) | D (mm) | L1 (mm) | L2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | ⅜ | ⅜ | 15 | **721 513 105** | 0.025 | ¾ | 3 | 8 | 35 | 17 | 24 |
| 20 | ½ | ½ | 15 | **721 513 106** | 0.040 | 1 | 3 | 9 | 43 | 19 | 26 |
| 25 | ¾ | ¾ | 15 | **721 513 107** | 0.065 | 1 ¼ | 3 | 9 | 51 | 22 | 29 |
| 32 | 1 | 1 | 15 | **721 513 108** | 0.090 | 1 ½ | 3 | 9 | 58 | 25 | 33 |
| 40 | 1 ¼ | 1 ¼ | 15 | **721 513 109** | 0.155 | 2 | 3 | 10 | 72 | 29 | 39 |
| 50 | 1 ½ | 1 ½ | 15 | **721 513 110** | 0.200 | 2 ¼ | 3 | 10 | 83 | 34 | 46 |
| 63 | 2 | 2 | 15 | **721 513 111** | 0.341 | 2 ¾ | 3 | 10 | 100 | 41 | 58 |





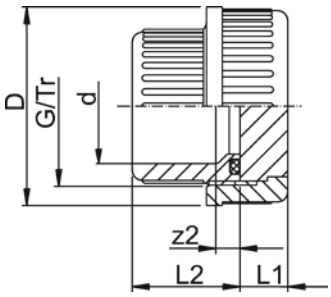

### Union PVC-U metric ASTM

**Model:**

- Union End: Solvent cement socket ASTM
- Union Bush: Solvent socket metric
- Gasket: O-ring EPDM code no. 748 410 005-011
- Gasket: O-ring FKM code no. 749 410 005-011 (to be ordered separately)

| d (mm) | d1 (inch) | Size (inch) | PN (bar) | Code | Weight (kg) | G (inch) | z1 (mm) | z2 (mm) | D (mm) | L1 (mm) | L2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | ⅜ | ⅜ | 16 | **721 514 105** | 0.022 | ¾ | 3 | 10 | 35 | 22 | 24 |
| 20 | ½ | ½ | 16 | **721 514 106** | 0.042 | 1 | 3 | 10 | 43 | 25 | 26 |
| 25 | ¾ | ¾ | 16 | **721 514 107** | 0.065 | 1 ¼ | 3 | 10 | 51 | 28 | 29 |
| 32 | 1 | 1 | 16 | **721 514 108** | 0.103 | 1 ½ | 3 | 10 | 58 | 32 | 33 |
| 40 | 1 ¼ | 1 ¼ | 16 | **721 514 109** | 0.174 | 2 | 3 | 12 | 72 | 35 | 39 |
| 50 | 1 ½ | 1 ½ | 16 | **721 514 110** | 0.239 | 2 ¼ | 3 | 14 | 83 | 38 | 46 |
| 63 | 2 | 2 | 16 | **721 514 111** | 0.356 | 2 ¾ | 3 | 18 | 100 | 41 | 58 |






### Union with union end blank PVC-U metric

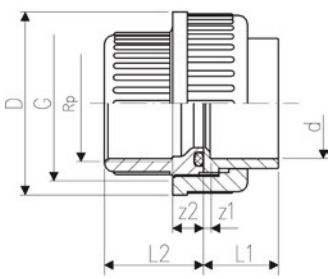
**Model:**

- Union Bush: Solvent socket metric
- Jointing face: With O-ring groove
- Gasket: O-Ring EPDM code no. 748 410 004-016; d90 748 410 248; FKM: 749 410 004-016; d90 749 410 248

| d (mm) | Size (inch) | PN (bar) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) | z2 (mm) | L2 (mm) | D (mm) | L1 (mm) | G/Tr (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | | 16 | **721 510 004** | 0.020 | **721 510 029** | 0.020 | 9 | 22 | 31 | 15 | 5/8 |
| 16 | | 16 | **721 510 005** | 0.026 | **721 510 030** | 0.026 | 10 | 24 | 35 | 10 | 3/4 |
| 20 | | 16 | **721 510 006** | 0.041 | **721 510 031** | 0.041 | 10 | 26 | 43 | 11 | 1 |
| 25 | | 16 | **721 510 007** | 0.068 | **721 510 032** | 0.068 | 10 | 29 | 51 | 11 | 1 1/4 |
| 32 | | 16 | **721 510 008** | 0.095 | **721 510 033** | 0.095 | 10 | 33 | 58 | 12 | 1 1/2 |
| 40 | | 16 | **721 510 009** | 0.159 | **721 510 034** | 0.159 | 12 | 39 | 72 | 13 | 2 |
| 50 | | 16 | **721 510 010** | 0.227 | **721 510 035** | 0.227 | 14 | 46 | 83 | 16 | 2 1/4 |
| 63 | | 16 | **721 510 011** | 0.392 | **721 510 036** | 0.405 | 18 | 58 | 100 | 18 | 2 3/4 |
| 75 | 2 ½ | 10 | **721 510 012** | 0.679 | **721 510 037** | 0.693 | 18 | 62 | 135 | 22 | Tr108x5 |
| 90 | | 10 | **721 510 213** | 1.022 | **721 510 238** | 1.022 | 18 | 69 | 158 | 24 | Tr128x5 |
| 110 | | 10 | **721 510 014** | 1.556 | **721 510 039** | 1.573 | 11 | 72 | 188 | 26 | Tr154x6 |

## Adaptor unions





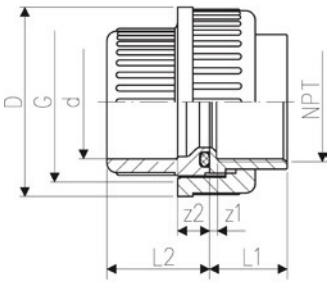

### Adaptor union PVC-U metric Rp

**Model:**

- Union End: Solvent cement socket metric
- Union Bush: Parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 004-011
- Gasket: O-ring FKM code no. 749 410 004-011 (to be ordered separately)
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

| d (mm) | Thread Type | Size (inch) | PN (bar) | EPDM Code | Weight (kg) | G (inch) | z1 (mm) | z2 (mm) | D (mm) | L1 (mm) | L2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | Rp | ¼ | 10 | **721 510 204** | 0.019 | ⅝ | 3 | 12 | 31 | 15 | 22 |
| 16 | Rp | ⅜ | 10 | **721 510 205** | 0.020 | ¾ | 3 | 13 | 35 | 17 | 24 |
| 20 | Rp | ½ | 10 | **721 510 206** | 0.040 | 1 | 3 | 13 | 43 | 19 | 26 |
| 25 | Rp | ¾ | 10 | **721 510 207** | 0.057 | 1 ¼ | 3 | 14 | 51 | 22 | 29 |
| 32 | Rp | 1 | 10 | **721 510 208** | 0.084 | 1 ½ | 3 | 15 | 58 | 25 | 33 |
| 40 | Rp | 1 ¼ | 10 | **721 510 209** | 0.147 | 2 | 3 | 19 | 72 | 29 | 39 |
| 50 | Rp | 1 ½ | 10 | **721 510 210** | 0.218 | 2 ¼ | 3 | 26 | 83 | 34 | 46 |
| 63 | Rp | 2 | 10 | **721 510 211** | 0.383 | 2 ¾ | 3 | 33 | 100 | 41 | 58 |





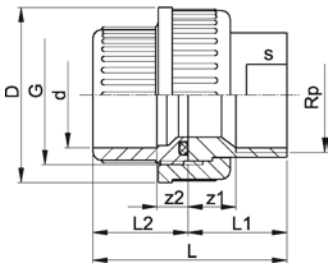

## Adaptor union PVC-U metric NPT

**Model:**

- Union End: Taper female thread NPT (ASTM)
- Union Bush: Solvent socket metric
- Gasket: O-ring EPDM code no. 748 410 005-011
- Gasket: O-ring FKM code no. 749 410 005-011 (to be ordered separately)
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

| d (mm) | Thread Type | Size (inch) | PN (bar) | EPDM Code | Weight (kg) | G (inch) | z1 (mm) | z2 (mm) | D (mm) | L1 (mm) | L2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | NPT | ⅜ | 10 | **721 514 205** | 0.026 | ¾ | 4 | 10 | 35 | 17 | 24 |
| 20 | NPT | ½ | 10 | **721 514 206** | 0.042 | 1 | 2 | 10 | 43 | 19 | 26 |
| 25 | NPT | ¾ | 10 | **721 514 207** | 0.068 | 1 ¼ | 4 | 10 | 51 | 22 | 29 |
| 32 | NPT | 1 | 10 | **721 514 208** | 0.093 | 1 ½ | 4 | 10 | 58 | 25 | 33 |
| 40 | NPT | 1 ¼ | 10 | **721 514 209** | 0.150 | 2 | 6 | 12 | 72 | 29 | 39 |
| 50 | NPT | 1 ½ | 10 | **721 514 210** | 0.228 | 2 ¼ | 11 | 14 | 83 | 34 | 46 |
| 63 | NPT | 2 | 10 | **721 514 211** | 0.387 | 2 ¾ | 17 | 18 | 100 | 41 | 58 |






## Adaptor union PVC-U/stainless steel metric Rp

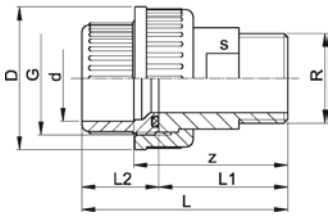
**Model:**

- Union Nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: Stainless Steel 1.4404 (316L), parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 005-011

| d (mm) | Thread Type | Size (inch) | PN (bar) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 16 | Rp | ⅜ | 16 | **721 540 205** | 0.053 | **721 540 230** | 0.053 |
| 20 | Rp | ½ | 16 | **721 540 206** | 0.096 | **721 540 231** | 0.096 |
| 25 | Rp | ¾ | 16 | **721 540 207** | 0.154 | **721 540 232** | 0.134 |
| 32 | Rp | 1 | 16 | **721 540 208** | 0.212 | **721 540 233** | 0.212 |
| 40 | Rp | 1 ¼ | 16 | **721 540 209** | 0.356 | **721 540 234** | 0.343 |
| 50 | Rp | 1 ½ | 16 | **721 540 210** | 0.455 | **721 540 235** | 0.455 |
| 63 | Rp | 2 | 16 | **721 540 211** | 0.730 | **721 540 236** | 0.721 |

| d (mm) | G (inch) | z1 (mm) | z2 (mm) | D (mm) | L (mm) | L1 (mm) | L2 (mm) | s (mm) |
|---|---|---|---|---|---|---|---|---|
| 16 | ¾ | 9 | 10 | 35 | 43 | 19 | 24 | 19 |
| 20 | 1 | 11 | 10 | 43 | 50 | 24 | 26 | 24 |
| 25 | 1 ¼ | 11 | 10 | 51 | 55 | 26 | 29 | 29 |
| 32 | 1 ½ | 12 | 10 | 58 | 61 | 29 | 33 | 36 |
| 40 | 2 | 14 | 12 | 72 | 71 | 33 | 39 | 45 |
| 50 | 2 ¼ | 15 | 14 | 83 | 79 | 34 | 46 | 54 |
| 63 | 2 ¾ | 15 | 18 | 100 | 95 | 39 | 58 | 63 |






## Adaptor union PVC-U/stainless steel metric R

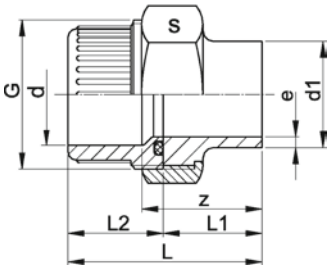
**Model:**

- Union Nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: Stainless Steel 1.4404 (316L), taper male thread R
- Gasket: O-ring EPDM code no. 748 410 005-011

| d (mm) | Thread Type | Size (inch) | PN (bar) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 16 | R | ⅜ | 16 | **721 540 705** | 0.073 | **721 540 730** | 0.073 |
| 20 | R | ½ | 16 | **721 540 706** | 0.126 | **721 540 731** | 0.126 |
| 25 | R | ¾ | 16 | **721 540 707** | 0.174 | **721 540 732** | 0.170 |
| 32 | R | 1 | 16 | **721 540 708** | 0.262 | **721 540 733** | 0.262 |
| 40 | R | 1 ¼ | 16 | **721 540 709** | 0.476 | **721 540 734** | 0.472 |
| 50 | R | 1 ½ | 16 | **721 540 710** | 0.535 | **721 540 735** | 0.535 |
| 63 | R | 2 | 16 | **721 540 711** | 0.934 | **721 540 736** | 0.931 |

| d (mm) | G (inch) | z (mm) | D (mm) | L (mm) | L1 (mm) | L2 (mm) | s (mm) |
|---|---|---|---|---|---|---|---|
| 16 | ¾ | 40 | 35 | 54 | 30 | 24 | 19 |
| 20 | 1 | 44 | 43 | 60 | 34 | 26 | 24 |
| 25 | 1 ¼ | 46 | 51 | 65 | 36 | 29 | 32 |
| 32 | 1 ½ | 50 | 58 | 72 | 40 | 33 | 37 |
| 40 | 2 | 58 | 72 | 84 | 46 | 39 | 48 |
| 50 | 2 ¼ | 62 | 83 | 93 | 48 | 46 | 54 |
| 63 | 2 ¾ | 73 | 100 | 111 | 55 | 58 | 69 |






## Adaptor union PVC-U metric/stainless steel metric welding end

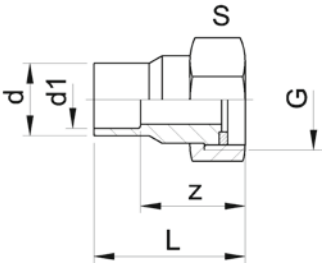
**Model:**

- Union Bush: Solvent cement socket PVC-U metric
- Union End: Stainless Steel 1.4404 (316L) with welding end
- Union Nut: Stainless Steel WN 1.4404 (316L)
- Gasket: O-ring EPDM code no. 748 410 005-011

| d (mm) | PN (bar) | d1 (mm) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 16 | 16 | 17 | **721 545 505** | 0.101 | **721 545 530** | 0.101 |
| 20 | 16 | 21 | **721 545 506** | 0.176 | **721 545 531** | 0.168 |
| 25 | 16 | 27 | **721 545 507** | 0.204 | **721 545 532** | 0.198 |
| 32 | 16 | 34 | **721 545 508** | 0.313 | **721 545 533** | 0.313 |
| 40 | 16 | 42 | **721 545 509** | 0.493 | **721 545 534** | 0.493 |
| 50 | 16 | 48 | **721 545 510** | 0.566 | **721 545 535** | 0.605 |
| 63 | 16 | 60 | **721 545 511** | 0.902 | **721 545 536** | 0.902 |

| d (mm) | G (inch) | z (mm) | L (mm) | L1 (mm) | L2 (mm) | e (mm) | s (mm) |
|---|---|---|---|---|---|---|---|
| 16 | ¾ | 28 | 42 | 18 | 24 | 1.6 | 32 |
| 20 | 1 | 32 | 48 | 22 | 26 | 2.0 | 41 |
| 25 | 1 ¼ | 33 | 52 | 23 | 29 | 2.0 | 46 |
| 32 | 1 ½ | 36 | 58 | 26 | 33 | 2.0 | 55 |
| 40 | 2 | 38 | 64 | 26 | 39 | 2.0 | 68 |
| 50 | 2 ¼ | 42 | 73 | 28 | 46 | 2.0 | 74 |
| 63 | 2 ¾ | 50 | 88 | 32 | 58 | 2.6 | 88 |





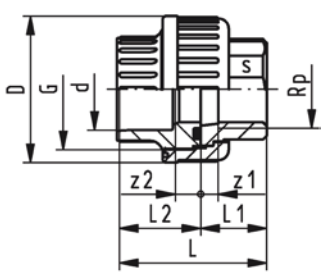

## Tap connectors PVC-U/brass metric G

**Model:**

- Union End: PVC-U, solvent cement socket / spigot metric
- Union Nut: brass with female thread G
- Gasket: flat gasket EPDM code no. 748 400 030; 748 400 005-006

| d (mm) | d1 (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | z (mm) | L (mm) | s (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 16 | 12 | G | ½ | 16 | **721 550 305** | 0.031 | 22 | 34 | 24 |
| 20 | 16 | G | ¾ | 16 | **721 550 306** | 0.049 | 24 | 38 | 30 |
| 25 | 20 | G | 1 | 16 | **721 550 307** | 0.079 | 27 | 43 | 38 |





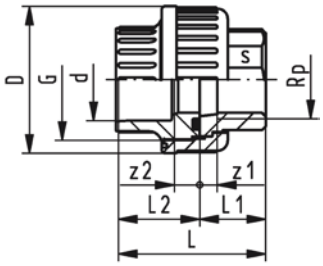

## Adaptor union PVC-U metric/malleable iron galvanised Rp

**Model:**

- Union Nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: malleable iron with parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 006-014; d90 748 410 248

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) |
|---|---|---|---|---|---|
| 20 | Rp | ½ | 16 | **721 530 306** | 0.073 |
| 25 | Rp | ¾ | 16 | **721 530 307** | 0.107 |
| 32 | Rp | 1 | 16 | **721 530 308** | 0.154 |
| 40 | Rp | 1 ¼ | 16 | **721 530 309** | 0.282 |
| 50 | Rp | 1 ½ | 16 | **721 530 310** | 0.377 |
| 63 | Rp | 2 | 16 | **721 530 311** | 0.594 |
| 75 | Rp | 2 ½ | 10 | **721 530 312** | 1.008 |
| 90 | Rp | 3 | 10 | **721 530 313** | 1.350 |

table continued on the next page



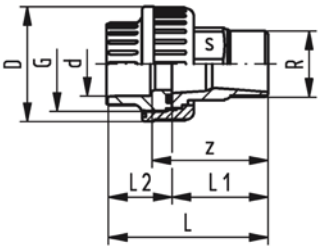

| d (mm) | D (mm) | L (mm) | L1 (mm) | L2 (mm) | z1 (mm) | z2 (mm) | G (inch) | s (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | 43 | 48 | 22 | 26 | 9 | 10 | 1 | 25 |
| 25 | 51 | 51 | 22 | 29 | 7 | 10 | 1 1/4 | 31 |
| 32 | 58 | 58 | 26 | 33 | 9 | 10 | 1 1/2 | 38 |
| 40 | 72 | 69 | 31 | 39 | 12 | 12 | 2 | 48 |
| 50 | 83 | 78 | 33 | 46 | 14 | 14 | 2 1/4 | 54 |
| 63 | 100 | 91 | 35 | 58 | 11 | 18 | 2 3/4 | 67 |
| 75 | 127 | 101 | 39 | 62 | 12 | 18 | Tr 108x5 | 85 |
| 90 | 150 | 114 | 45 | 69 | 15 | 19 | Tr 128x5 | 96 |



## Adaptor union PVC-U metric/malleable iron galvanised R

**Model:**

- Union Nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: Malleable iron with taper male thread R
- Gasket: O-ring EPDM code no. 748 410 006-014; d90 748 410 248




| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) |
|---|---|---|---|---|---|
| 20 | R | ½ | 16 | **721 530 806** | 0.107 |
| 25 | R | ¾ | 16 | **721 530 807** | 0.159 |
| 32 | R | 1 | 16 | **721 530 808** | 0.213 |
| 40 | R | 1 ¼ | 16 | **721 530 809** | 0.426 |
| 50 | R | 1 ½ | 16 | **721 530 810** | 0.528 |
| 63 | R | 2 | 16 | **721 530 811** | 0.863 |
| 75 | R | 2 ½ | 10 | **721 530 812** | 1.441 |
| 90 | R | 3 | 10 | **721 530 813** | 1.873 |

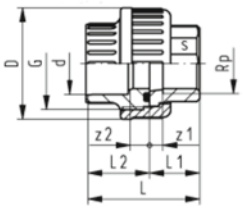
| d (mm) | D (mm) | L (mm) | L1 (mm) | L2 (mm) | z (mm) | G (inch) | s (mm) |
|---|---|---|---|---|---|---|---|
| 20 | 43 | 66 | 40 | 26 | 50 | 1 | 25 |
| 25 | 51 | 72 | 43 | 29 | 53 | 1 1/4 | 31 |
| 32 | 58 | 80 | 48 | 33 | 58 | 1 1/2 | 38 |
| 40 | 72 | 95 | 57 | 39 | 69 | 2 | 48 |
| 50 | 83 | 104 | 59 | 46 | 73 | 2 1/4 | 54 |
| 63 | 100 | 118 | 62 | 58 | 80 | 2 3/4 | 67 |
| 75 | 127 | 137 | 75 | 62 | 93 | Tr 108x5 | 85 |
| 90 | 150 | 149 | 80 | 69 | 99 | Tr 128x5 | 96 |



## Adaptor union PVC-U/brass metric Rp

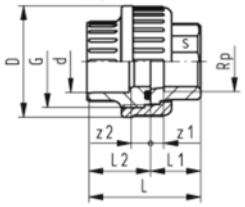
**Model:**

- Union Nut: PVC-U
- Union bush: Solvent cement socket metric
- Union End: Brass with parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 006-014; d90 748 410 248



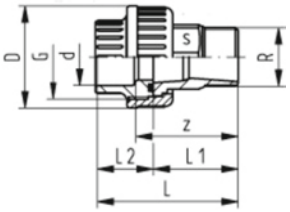

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) |
|---|---|---|---|---|---|
| 20 | Rp | ½ | 16 | **721 550 506** | 0.088 |
| 25 | Rp | ¾ | 16 | **721 550 507** | 0.145 |
| 32 | Rp | 1 | 16 | **721 550 508** | 0.175 |
| 40 | Rp | 1 ¼ | 16 | **721 550 509** | 0.322 |
| 50 | Rp | 1 ½ | 16 | **721 550 510** | 0.467 |
| 63 | Rp | 2 | 16 | **721 550 511** | 0.776 |
| 75 | Rp | 2 ½ | 10 | **721 550 512** | 1.360 |
| 90 | Rp | 3 | 10 | **721 550 513** | 2.003 |

table continued on the next page




| d (mm) | D (mm) | L (mm) | L1 (mm) | L2 (mm) | s (mm) | z1 (mm) | z2 (mm) | G (inch) |
|---|---|---|---|---|---|---|---|---|
| 20 | 43 | 48 | 22 | 26 | 25 | 7 | 10 | 1 |
| 25 | 51 | 54 | 25 | 29 | 30 | 9 | 10 | 1 1/4 |
| 32 | 58 | 60 | 27 | 33 | 36 | 8 | 11 | 1 1/2 |
| 40 | 72 | 70 | 31 | 39 | 46 | 10 | 13 | 2 |
| 50 | 83 | 81 | 35 | 46 | 55 | 13 | 15 | 2 1/4 |
| 63 | 100 | 98 | 40 | 58 | 65 | 14 | 20 | 2 3/4 |
| 75 | 127 | 109 | 47 | 62 | 85 | 16 | 18 | Tr 108x5 |
| 90 | 150 | 121 | 52 | 69 | 95 | 18 | 18 | Tr 128x5 |






## Adaptor union PVC-U/brass metric R

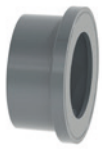
**Model:**

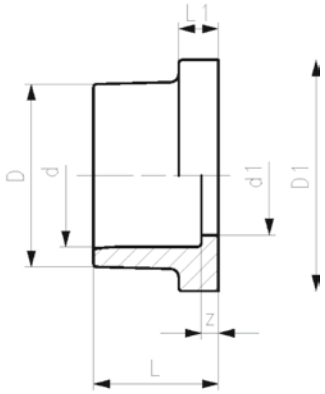
- Union Nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: Brass with taper male thread R
- Gasket: O-ring EPDM code no. 748 410 006-014; d90 748 410 248

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) |
|---|---|---|---|---|---|
| 20 | R | ½ | 16 | **721 550 906** | 0.125 |
| 25 | R | ½ | 16 | **721 550 957** | 0.196 |
| 25 | R | ¾ | 16 | **721 550 907** | 0.196 |
| 25 | R | 1 | 16 | **721 550 967** | 0.307 |
| 32 | R | ½ | 16 | **721 550 958** | 0.297 |
| 32 | R | ¾ | 16 | **721 550 968** | 0.297 |
| 32 | R | 1 | 16 | **721 550 908** | 0.283 |
| 40 | R | 1 ¼ | 16 | **721 550 909** | 0.502 |
| 50 | R | 1 ½ | 16 | **721 550 910** | 0.681 |
| 63 | R | 2 | 16 | **721 550 911** | 1.101 |
| 75 | R | 2 ½ | 10 | **721 550 912** | 1.706 |
| 90 | R | 3 | 10 | **721 550 913** | 2.662 |

| d (mm) | D (mm) | L (mm) | L1 (mm) | L2 (mm) | z (mm) | G (inch) | s (mm) |
|---|---|---|---|---|---|---|---|
| 20 | 43 | 63 | 37 | 26 | 47 | 1 | 25 |
| 25 | 51 | 66 | 37 | 29 | 47 | 1 1/4 | 30 |
| 25 | 51 | 71 | 42 | 29 | 52 | 1 1/4 | 30 |
| 25 | 51 | 75 | 46 | 29 | 56 | 1 1/4 | 30 |
| 32 | 58 | 70 | 37 | 33 | 48 | 1 1/2 | 36 |
| 32 | 58 | 75 | 42 | 33 | 53 | 1 1/2 | 36 |
| 32 | 58 | 79 | 46 | 33 | 57 | 1 1/2 | 36 |
| 40 | 72 | 91 | 52 | 39 | 65 | 2 | 46 |
| 50 | 83 | 102 | 56 | 46 | 71 | 2 1/4 | 55 |
| 63 | 100 | 125 | 67 | 58 | 87 | 2 3/4 | 65 |
| 75 | 127 | 139 | 77 | 62 | 95 | Tr 108x5 | 85 |
| 90 | 150 | 155 | 86 | 69 | 104 | Tr 125x8 | 95 |

# Flange adaptors






## Flange adaptor PVC-U
## Combined jointing face flat and serrated metric

**Model:**

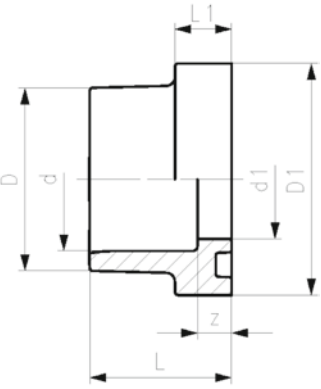
- Solvent cement socket metric
- d16 - d50: Sealing surface flat
- d63 - d400: combined jointing face flat and serrated
- Combination with gasket: profile flange gasket EPDM code no. 748 440 705-725, FKM code no. 749 440 705-725 or flat gasket EPDM code no. 748 440 705-725, only use O-ring EPDM code no. 748 410 000-174, FKM code no. 749 410 000-174 in combination with conterpart flange adaptor code no. 721 810 105-123
- Combination with flanges (metric & ANSI): PVC-U, PP-V, PP-Steel

**Note:**

* bevel on pipe may be needed if used with butterfly valve type 037/038/039
**The flat gasket affects the maximum allowable operating pressure!**

| | d (inch) | d (mm) | Size (inch) | DN (mm) | PN (bar) | Code | Weight (kg) | D (mm) | D1 (mm) | d1 (mm) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 16 | | 10 | 16 | **721 800 105** | 0.006 | 22 | 29 | 13 | 17 | 6 | 3 |
| | | 20 | | 15 | 16 | **721 800 106** | 0.009 | 27 | 34 | 16 | 19 | 6 | 3 |
| | | 25 | | 20 | 16 | **721 800 107** | 0.015 | 33 | 41 | 21 | 22 | 7 | 3 |
| | | 32 | | 25 | 16 | **721 800 108** | 0.024 | 41 | 50 | 28 | 25 | 7 | 3 |
| | | 40 | | 32 | 16 | **721 800 109** | 0.039 | 50 | 61 | 36 | 29 | 8 | 3 |
| | | 50 | | 40 | 16 | **721 800 110** | 0.056 | 61 | 73 | 45 | 34 | 8 | 3 |
| | | 63 | | 50 | 16 | **721 790 111** | 0.103 | 77 | 90 | 57 | 41 | 9 | 3 |
| | 2 ½ | 75 | 2 ½ | 65 | 16 | **721 790 112** | 0.159 | 91 | 106 | 69 | 47 | 10 | 3 |
| | | 90 | | 80 | 16 | **721 790 113** | 0.253 | 108 | 125 | 82 | 56 | 11 | 5 |
| | | 110 | | 100 | 16 | **721 790 114** | 0.417 | 131 | 150 | 102 | 66 | 12 | 5 |
| | | 125 | | 125 | 16 | **721 790 115** | 0.533 | 148 | 170 | 117 | 74 | 13 | 5 |
| | 5 | 140 | 5 | 125 | 16 | **721 790 116** | 0.725 | 165 | 188 | 132 | 81 | 14 | 5 |
| | | 160 | 6 | 150 | 16 | **721 790 117** | 1.093 | 188 | 213 | 152 | 91 | 16 | 5 |
| * | | 200 | | 200 | 10 | **721 790 119** | 1.460 | 224 | 250 | 192 | 112 | 24 | 6 |
| | | 225 | | 200 | 10 | **721 790 120** | 1.743 | 248 | 274 | 217 | 125 | 25 | 6 |
| * | | 250 | | 250 | 10 | **721 790 121** | 2.203 | 274 | 303 | 240 | 140 | 23 | 9 |
| | | 280 | | 250 | 10 | **721 790 122** | 2.930 | 308 | 329 | 270 | 151 | 23 | 5 |
| * | | 315 | | 300 | 6 | **721 790 123** | 4.455 | 346 | 379 | 302 | 172 | 27 | 8 |
| | | 355 | | 350 | 6 | **721 790 124** | 5.963 | 384 | 430 | 341 | 194 | 32 | 10 |
| | | 400 | | 400 | 6 | **721 790 125** | 9.041 | 438 | 482 | 384 | 216 | 34 | 10 |





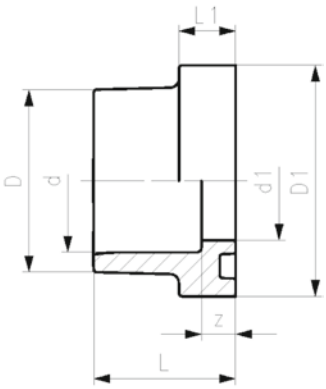

## Flange adaptor PVC-U
## Jointing face with O-ring groove metric

**Model:**

- Solvent cement socket metric
- Counterpart: flange adaptor flat code no. 721 800 105-721 790 111-125, combined flange adaptor (d160, d200, d225, d280, d315)
- Gasket: O-ring EPDM code no. 748 410 000-176, FKM code no. 749 410 000-176
- Flange: PVC-U code no. 721 700 005-138, PP/steel code no. 727 700 206-223, PP-V for socket systems metric code no. 727 700 406-423

| d (inch) | d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | D (mm) | D1 (mm) | d1 (mm) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16 | 10 | 16 | **721 810 105** | 0.008 | 22 | 29 | 13 | 20 | 9 | 6 |
| | 20 | 15 | 16 | **721 810 106** | 0.011 | 27 | 34 | 16 | 22 | 9 | 6 |
| | 25 | 20 | 16 | **721 810 107** | 0.018 | 33 | 41 | 21 | 25 | 10 | 6 |
| | 32 | 25 | 16 | **721 810 108** | 0.027 | 41 | 50 | 28 | 28 | 10 | 6 |
| | 40 | 32 | 16 | **721 810 109** | 0.046 | 50 | 61 | 36 | 34 | 13 | 8 |
| | 50 | 40 | 16 | **721 810 110** | 0.068 | 61 | 73 | 45 | 39 | 13 | 8 |
| | 63 | 50 | 16 | **721 810 111** | 0.120 | 77 | 90 | 57 | 46 | 14 | 8 |
| 2 ½ | 75 | 65 | 16 | **721 810 112** | 0.183 | 91 | 106 | 69 | 52 | 15 | 8 |
| | 90 | 80 | 16 | **721 810 113** | 0.286 | 108 | 125 | 82 | 61 | 16 | 10 |
| | 110 | 100 | 16 | **721 810 114** | 0.478 | 131 | 150 | 102 | 72 | 18 | 11 |

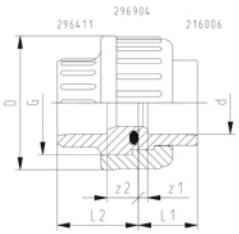
table continued on the next page




| d (inch) | d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | D (mm) | D1 (mm) | d1 (mm) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 125 | 125 | 16 | **721 810 115** | 0.607 | 148 | 170 | 117 | 80 | 19 | 11 |
| 5 | 140 | 125 | 16 | **721 810 116** | 0.804 | 165 | 188 | 132 | 87 | 20 | 11 |
| | 160 | 150 | 16 | **721 810 117** | 1.226 | 188 | 213 | 152 | 97 | 22 | 11 |
| | 200 | 200 | 10 | **721 810 119** | 1.593 | 224 | 250 | 192 | 118 | 30 | 12 |
| | 225 | 200 | 10 | **721 810 120** | 1.878 | 248 | 274 | 217 | 131 | 31 | 12 |
| | 250 | 250 | 10 | **721 810 121** | 2.175 | 274 | 303 | 240 | 140 | 23 | 9 |
| | 280 | 250 | 10 | **721 810 122** | 3.170 | 308 | 329 | 270 | 158 | 30 | 13 |
| | 315 | 300 | 6 | **721 810 123** | 4.891 | 346 | 379 | 302 | 180 | 35 | 17 |

## Thread unions






### Thread union PVC-U Rp Rp

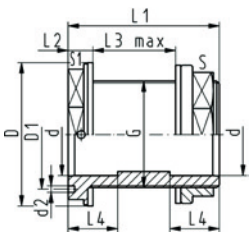
**Model:**

- Union Nut: PVC-U
- Union Bush: Parallel female thread Rp
- Union End: Parallel female thread Rp
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U
- Gasket: O-ring EPDM code no. 748 410 004-011
- Gasket: O-ring FKM code no. 749 410 004-011 (to be ordered separately)

| Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | G (inch) | z1 (mm) | z2 (mm) | D (mm) | L1 (mm) | L2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| Rp | ¼ | 10 | **721 510 604** | 0.019 | ⅝ | 3 | 12 | 31 | 22 | 15 |
| Rp | ⅜ | 10 | **721 510 605** | 0.027 | ¾ | 3 | 13 | 35 | 24 | 17 |
| Rp | ½ | 10 | **721 510 606** | 0.042 | 1 | 3 | 13 | 43 | 26 | 19 |
| Rp | ¾ | 10 | **721 510 607** | 0.065 | 1 ¼ | 3 | 14 | 51 | 29 | 22 |
| Rp | 1 ¼ | 10 | **721 510 609** | 0.160 | 2 | 3 | 19 | 72 | 38 | 29 |
| Rp | 1 ½ | 10 | **721 510 610** | 0.220 | 2 ¼ | 3 | 26 | 83 | 45 | 34 |
| Rp | 1 | 10 | **721 510 608** | 0.093 | 1 ½ | 3 | 15 | 58 | 32 | 25 |
| Rp | 2 | 10 | **721 510 611** | 0.415 | 2 ¾ | 3 | 33 | 100 | 56 | 41 |

## Tank adaptors





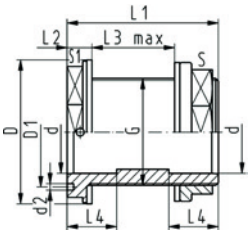

### Tank adaptor type 050 PVC-U Compact

**Model:**

- End connection: solvent cement socket, metric
- Gasket: flat gasket EPDM
- Washer: PP
- Run-out holes: two holes in octagonal head
- FKM flat gasket available for tank adaptor type 050

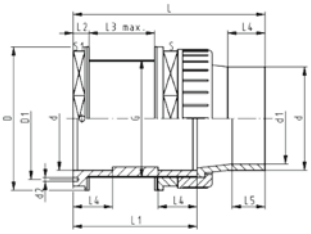
| d (mm) | PN (bar) | EPDM Code | Weight (kg) |
|---|---|---|---|
| 16 | 16 | **161 050 445** | 0.048 |
| 20 | 16 | **161 050 446** | 0.066 |
| 25 | 16 | **161 050 447** | 0.170 |
| 32 | 16 | **161 050 448** | 0.144 |
| 40 | 16 | **161 050 449** | 0.238 |
| 50 | 16 | **161 050 450** | 0.260 |
| 63 | 16 | **161 050 451** | 0.398 |

table continued on the next page




| d (mm) | L3 max (mm) | Diameter of bore in tank side (mm) | D1 (mm) | S (mm) | D (mm) | L2 (mm) | S1 (mm) | L4 (mm) | L1 (mm) | d2 (mm) | G (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 28 | 28 | 29 | 32 | 44 | 11 | 40 | 14 | 58 | 5 | ¾ |
| 20 | 28 | 35 | 35 | 40 | 54 | 12 | 50 | 16 | 61 | 5 | 1 |
| 25 | 28 | 43 | 42 | 50 | 60 | 13 | 55 | 19 | 65 | 5 | 1 ¼ |
| 32 | 28 | 49 | 49 | 56 | 69 | 13 | 65 | 22 | 67 | 5 | 1 ½ |
| 40 | 29 | 61 | 59 | 69 | 84 | 13 | 80 | 26 | 72 | 5 | 2 |
| 50 | 30 | 67 | 70 | 76 | 92 | 15 | 85 | 31 | 76 | 5 | 2 ¼ |
| 63 | 35 | 83 | 82 | 95 | 108 | 15 | 100 | 38 | 84 | 5 | 2 ¾ |






## Tank adaptor type 050 PVC-U
## Reduced socket metric

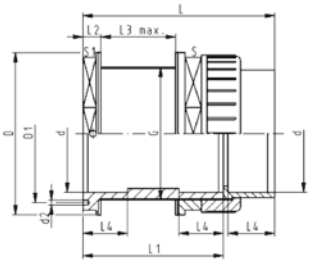
**Model:**

- Gaskets: flat gaskets EPDM
- Washer: PP
- Run-out holes: two holes in octagonal head
- FKM flat gaskets available for tank adaptor type 050

| d (mm) | PN (bar) | d1 (mm) | EPDM Code | Weight (kg) |
|---|---|---|---|---|
| 16 | 16 | 12 | **161 050 345** | 0.068 |
| 20 | 16 | 16 | **161 050 346** | 0.102 |
| 25 | 16 | 20 | **161 050 347** | 0.157 |
| 32 | 16 | 25 | **161 050 348** | 0.220 |
| 40 | 16 | 32 | **161 050 349** | 0.353 |
| 50 | 16 | 40 | **161 050 350** | 0.438 |
| 63 | 16 | 50 | **161 050 351** | 0.680 |

| d (mm) | L (mm) | D (mm) | L1 (mm) | L5 (mm) | L4 (mm) | S1 (mm) | L2 (mm) | S (mm) | D1 (mm) | Diameter of bore in tank side (mm) | L3 max (mm) | G (inch) | d2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 96 | 44 | 58 | 12 | 14 | 40 | 11 | 32 | 29 | 28 | 19 | ¾ | 5 |
| 20 | 104 | 54 | 61 | 14 | 16 | 50 | 12 | 40 | 35 | 35 | 17 | 1 | 5 |
| 25 | 112 | 60 | 65 | 16 | 19 | 55 | 13 | 50 | 42 | 43 | 18 | 1 ¼ | 5 |
| 32 | 119 | 69 | 67 | 19 | 22 | 65 | 13 | 56 | 49 | 49 | 19 | 1 ½ | 5 |
| 40 | 132 | 84 | 72 | 22 | 26 | 80 | 13 | 69 | 59 | 61 | 16 | 2 | 5 |
| 50 | 145 | 92 | 76 | 26 | 31 | 85 | 15 | 76 | 70 | 67 | 16 | 2 ¼ | 5 |
| 63 | 163 | 108 | 84 | 31 | 38 | 100 | 15 | 95 | 82 | 83 | 19 | 2 ¾ | 5 |





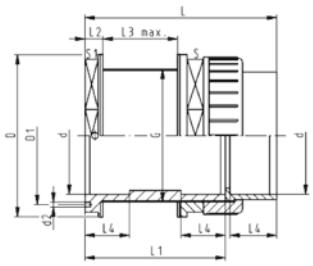

## Tank adaptor type 050 PVC-U
## cementing socket metric

**Model:**

- Gaskets: flat gaskets EPDM
- Washer: PP
- Run-out holes: two holes in octagonal head
- FKM flat gaskets available for tank adaptor type 050

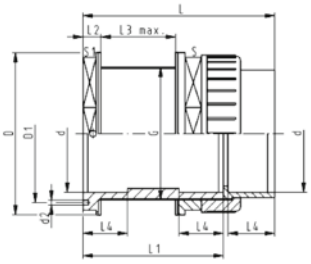
| d (mm) | PN (bar) | Code | Weight (kg) |
|---|---|---|---|
| 16 | 16 | **161 050 245** | 0.064 |
| 20 | 16 | **161 050 246** | 0.070 |
| 25 | 16 | **161 050 247** | 0.100 |
| 32 | 16 | **161 050 248** | 0.196 |
| 40 | 16 | **161 050 249** | 0.328 |
| 50 | 16 | **161 050 250** | 0.395 |
| 63 | 16 | **161 050 251** | 0.530 |

table continued on the next page




| d (mm) | L (mm) | L2 (mm) | L1 (mm) | D (mm) | L3 max (mm) | Diameter of bore in tank side (mm) | S1 (mm) | L4 (mm) | d2 (mm) | D1 (mm) | S (mm) | G (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 77 | 11 | 58 | 44 | 19 | 28 | 40 | 14 | 5 | 29 | 32 | ¾ |
| 20 | 83 | 12 | 61 | 54 | 17 | 35 | 50 | 16 | 5 | 35 | 40 | 1 |
| 25 | 90 | 13 | 65 | 60 | 18 | 43 | 55 | 19 | 5 | 42 | 50 | 1 ¼ |
| 32 | 95 | 13 | 67 | 69 | 19 | 49 | 65 | 22 | 5 | 49 | 56 | 1 ½ |
| 40 | 104 | 13 | 72 | 84 | 16 | 61 | 80 | 26 | 5 | 59 | 69 | 2 |
| 50 | 113 | 15 | 76 | 92 | 16 | 67 | 85 | 31 | 5 | 70 | 76 | 2 ¼ |
| 63 | 128 | 15 | 84 | 108 | 19 | 83 | 100 | 38 | 5 | 82 | 95 | 2 ¾ |






## Tank adaptor type 050 PVC-U metric with O-Ring

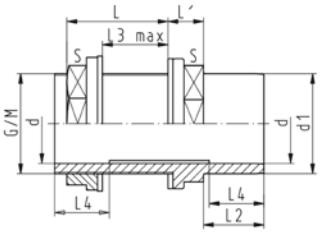
**Model:**

- Gaskets: O-ring EPDM, flat gasket EPDM
- Washer: PP
- Run-out holes: two holes in octagonal head
- For round tanks

| d (mm) | PN (bar) | Code | Weight (kg) |
|---|---|---|---|
| 16 | 16 | **161 050 385** | 0.040 |
| 20 | 16 | **161 050 386** | 0.070 |
| 25 | 16 | **161 050 387** | 0.160 |
| 32 | 16 | **161 050 388** | 0.200 |
| 40 | 16 | **161 050 389** | 0.240 |
| 50 | 16 | **161 050 390** | 0.400 |
| 63 | 16 | **161 050 391** | 0.530 |

| d (mm) | G (inch) | d2 (mm) | D1 (mm) | S (mm) | L3 max (mm) | Diameter of bore in tank side (mm) | S1 (mm) | L4 (mm) | L (mm) | L2 (mm) | L1 (mm) | D (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | ¾ | 5 | 29 | 32 | 19 | 28 | 40 | 14 | 77 | 11 | 58 | 44 |
| 20 | 1 | 5 | 35 | 40 | 17 | 35 | 50 | 16 | 83 | 12 | 61 | 54 |
| 25 | 1 ¼ | 5 | 42 | 50 | 18 | 43 | 55 | 19 | 90 | 13 | 65 | 60 |
| 32 | 1 ½ | 5 | 49 | 56 | 19 | 49 | 65 | 22 | 95 | 13 | 67 | 69 |
| 40 | 2 | 5 | 59 | 69 | 16 | 61 | 80 | 26 | 104 | 13 | 72 | 84 |
| 50 | 2 ¼ | 5 | 70 | 76 | 16 | 67 | 85 | 31 | 113 | 15 | 76 | 92 |
| 63 | 2 ¾ | 5 | 82 | 95 | 19 | 83 | 100 | 38 | 128 | 15 | 84 | 108 |






### Tank adaptor adjustable PVC-U

**Model:**

- Gasket: flat gasket EPDM
- Washer: PP
- Spare parts on request

| d (mm) | Size (inch) | d1 (mm) | Code | Weight (kg) |
|---|---|---|---|---|
| 20 | ¾ | 25 | **161 050 206** | 0.046 |
| 25 | 1 | 32 | **161 050 207** | 0.066 |
| 32 | 1 ¼ | 40 | **161 050 208** | 0.106 |
| 40 | 1 ¾ | 50 | **161 050 209** | 0.190 |
| 50 | 2 | 63 | **161 050 210** | 0.248 |
| 63 | 2 ½ | 75 | **161 050 211** | 0.352 |
| 75 | 3 | 90 | **161 050 212** | 0.539 |
| 90 | | 110 | **161 050 213** | 1.083 |
| 110 | | 125 | **161 050 214** | 1.350 |

| d (mm) | L3 max (mm) | Diameter of bore in tank side (mm) | G (inch) | L1 (mm) | L2 (mm) | L (mm) | L4 (mm) | s (mm) | M |
|---|---|---|---|---|---|---|---|---|---|
| 20 | 23 | 28 | ¾ | 13 | 19 | 42 | 16 | 32 | |
| 25 | 23 | 35 | 1 | 15 | 22 | 45 | 19 | 40 | |
| 32 | 24 | 43 | 1 ¼ | 17 | 26 | 49 | 22 | 50 | |
| 40 | 21 | 55 | 1 ¾ | 19 | 31 | 48 | 26 | 60 | |
| 50 | 21 | 61 | 2 | 21 | 38 | 52 | 31 | 69 | |
| 63 | 23 | 77 | 2 ½ | 23 | 44 | 53 | 38 | 85 | |
| 75 | 20 | 89 | 3 | 26 | 51 | 56 | 44 | 100 | |
| 90 | 20 | 115 | | 32 | 61 | 62 | 51 | 125 | M113 |
| 110 | 22 | 135 | | 36 | 69 | 66 | 61 | 147 | M133 |

## Solvent Cements and Tools




### Tangit PVC-U solvent cement

- Tin à 0.250, 0.500 and 1.000 kg (Net)
- 0.125 kg tube

| Description | Code | Weight (kg) |
|---|---|---|
| tube: 0.125 kg | **799 298 000** | 0.125 |
| tin: 0.25 kg | **799 298 001** | 0.250 |
| tin: 0.50 kg | **799 298 002** | 0.500 |
| tin: 1.00 kg | **799 298 003** | 1.000 |




### Cap for cement

- Cap prevents the evaporation of the solvent whilst using the Tangit cement

| Code | Weight (kg) |
|---|---|
| **799 298 028** | 0.030 |




## Tangit PVC-U/PVC-C/ABS cleaner/primer

**Model:**

- For PVC-U, PVC-C, ABS
- 1 litre tin

| Code | Weight (kg) |
|---|---|
| **799 298 010** | 0.900 |



## Round brush

| d-d (mm) | | Code | Weight (kg) | Closest inch (inch) |
|---|---|---|---|---|
| 6 - 10 | 4 mm (for Fittings 6-10mm) | **799 299 001** | 0.004 | ⅛ |
| 12 - 32 | 8 mm (for Fittings 12-32mm) | **799 299 002** | 0.006 | ¼ - 1 |



## Flat brush

| d-d (mm) | | Code | Weight (kg) | Closest inch (inch) |
|---|---|---|---|---|
| 40 - 63 | 25x3 mm (for Fittings 40-63mm) | **799 299 003** | 0.015 | 1 ¼ - 2 |
| 75 - 225 | 50x5 mm (for Fittings 75-225mm) | **799 299 004** | 0.035 | 2 ½ - 8 |
| 250 - 400 | 75x6 mm (for Fittings 250-400mm) | **799 299 005** | 0.053 | 9 - 16 |



## KS 355 Plastic pipe cutter

- The KS 355 is the ideal tool for right-angled cuts with no misalignment of PE, PP and PVC pipes
- Pipe outer dimension from 160 – 355 mm, wall-thickness from 8 – 40 mm
- Unique clamping mechanism, no additional tools like belts, chains or reduction inserts necessary
- Weight of the saw: 13,0 kg
- Supplied with transport box: Dimension 700 x 350 x 500 mm; Weight 17,0 kg

| d-d (mm) | Code | Weight (kg) | Power |
|---|---|---|---|
| 160 - 355 | **790 202 001** | 15.400 | 1750 W; 230 V; 50/60 Hz |

# PROGEF



## Your benefits

+ **High impact strength**
+ **Good chemical resistance**
+ **Outstanding abrasion resistant**
+ **Excellent pressure and temperature resistant**

## Technical data

**Materials**
PP

**Dimensions range**
PROGEF Standard: 16 mm to 500 mm

**Jointing technology**
IR Plus fusion, socket fusion, butt fusion

**Operating pressure**
Up to 10 bar

**Operating temperature**
0°C to 80°C

The value above listed are to be considered for water, in case of use chemical addition it is always recommended to contact GF specialist to an individual and more detailed assessment.

## Pressure-temperature diagram for PP

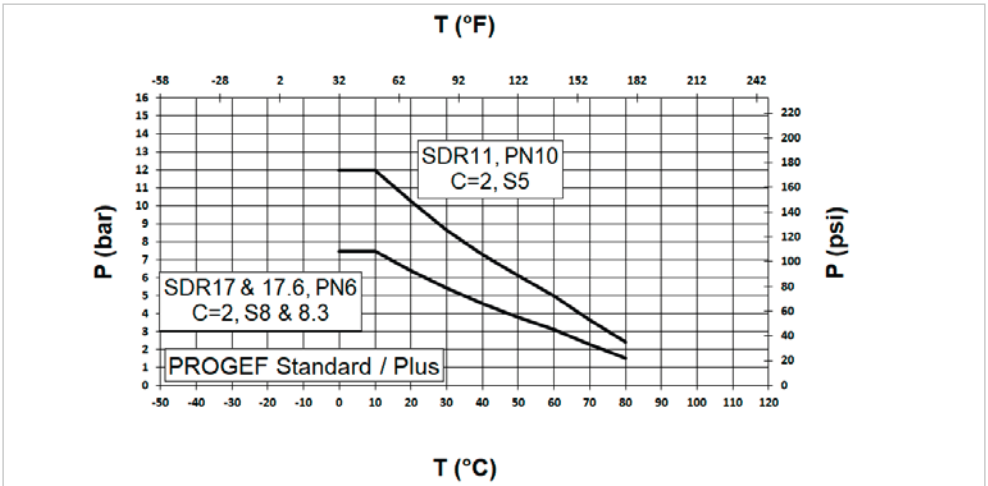
### PROGEF Standard and PROGEF Plus piping system (PP-H)

The following pressure-temperature diagrams for PP pipe and fittings are valid for a service life of 25 years. The design factor of 2 recommended by GF Piping Systems has been incorporated.

The diagrams can be used for water or media resembling water, in other words, media which have no reduction factor for chemical resistance.

**Please take into account the pressure-temperature diagrams for valves and special fittings. Because of the construction and/or sealing material used, differences are possible when compared to pipe and fittings. More information is available in the Planning Fundamentals of the relevant types of valves and special fittings.**

### Pressure-temperature diagram for PP pipe and injection-molded fittings

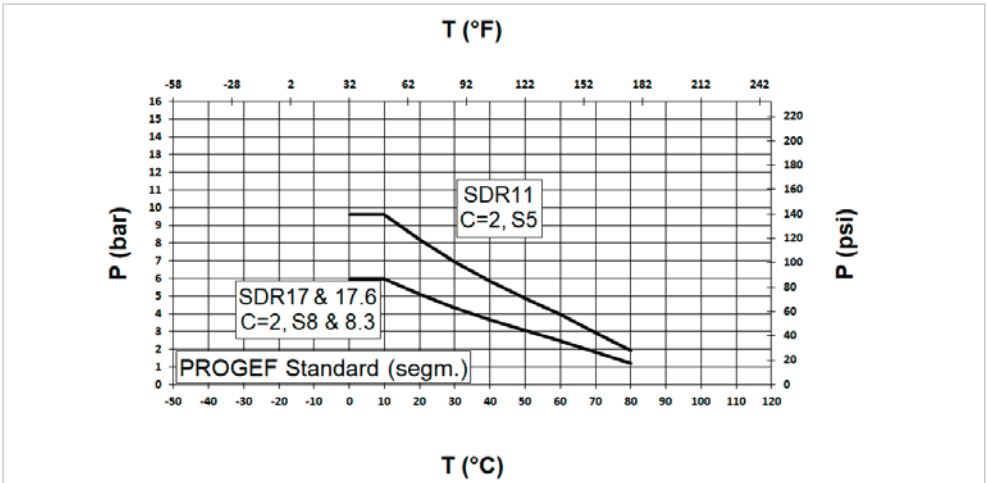



P Permissible pressure (bar, psi)
T Temperature (°C, °F)

**In case of applications with temperatures in the range of the dotted lines, please contact your GF Piping Systems representative.**

### Pressure-temperature diagram for PP segment-welded fittings

Segment-welded fittings have a reduction factor of 0.8 for the operating pressure/nominal pressure.




P Permissible pressure (bar, psi)
T Temperature (°C, °F)

## PROGEF Natural piping system (PP-n)

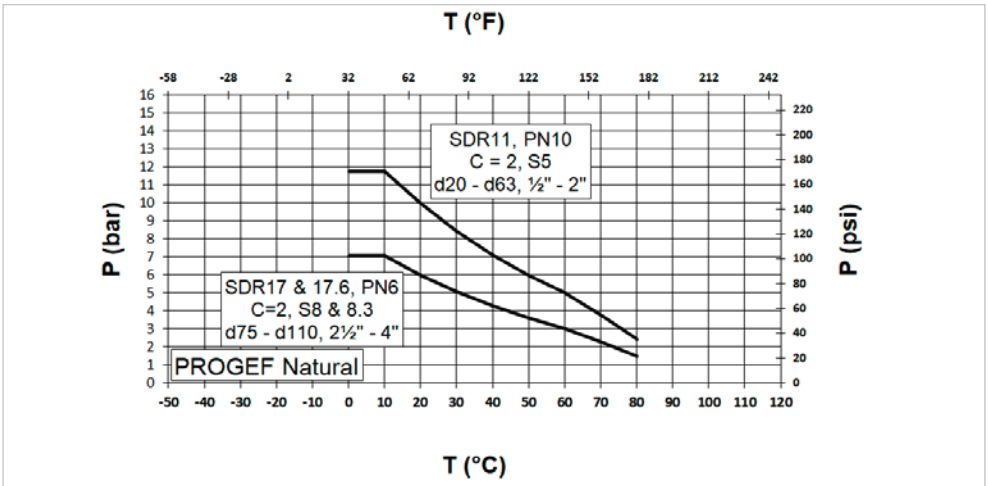
The following pressure-temperature diagram for PROGEF Natural pipe and fittings is valid for a service life of 25 years.

The design factor of 2 recommended by GF Piping Systems has been incorporated.

It can be used for water or media resembling water, in other words, media that have no reduction factor for chemical resistance.

**Please take into account the pressure-temperature diagrams for valves and special fittings. Because of the construction and/or sealing material used, differences are possible when compared to pipe and fittings. More information is available in the Planning Fundamentals of the relevant types of valves and special fittings.**

**Using PROGEF Natural at higher temperatures can cause a discoloration of the material.**



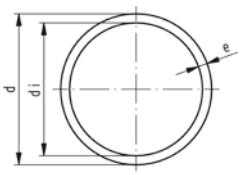

P Permissible pressure (bar, psi)

T Temperature (°C, °F)

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# Pipes





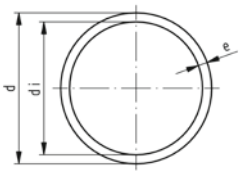

## PROGEF Standard pipe SDR7,4/PN16/S3,2

**Model:**

- Material: PP-H - homopolymer
- Dimension: acc. to DIN 8077/78
- Colour: light grey RAL 7032
- Pipe length: 5000mm, with plain ends
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

| d (mm) | SDR | PN (bar) | Code | Weight (kg/m) | e (mm) |
|---|---|---|---|---|---|
| 16 | 7.4 | 16 | **167 481 027** | 0.095 | 2.2 |
| 20 | 7.4 | 16 | **167 481 028** | 0.148 | 2.8 |
| 25 | 7.4 | 16 | **167 481 029** | 0.230 | 3.5 |





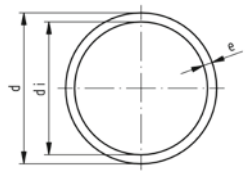

## PROGEF Standard pipe SDR11/PN10/S5

**Model:**

- Material: PP-H - homopolymer
- Dimension: acc. to DIN 8077/78 and DIN EN 15494
- Colour: light grey RAL 7032
- Pipe length: 5000mm, with plain ends

| d (mm) | SDR | PN (bar) | Code | Weight (kg/m) | di (mm) | closest inch (inch) | e (mm) |
|---|---|---|---|---|---|---|---|
| 16 | 11 | 10 | **167 480 710** | 0.080 | 12.4 | ⅜ | 1.8 |
| 20 | 11 | 10 | **167 480 711** | 0.107 | 16.2 | ½ | 1.9 |
| 25 | 11 | 10 | **167 480 712** | 0.164 | 20.4 | ¾ | 2.3 |
| 32 | 11 | 10 | **167 480 713** | 0.261 | 26.2 | 1 | 2.9 |
| 40 | 11 | 10 | **167 480 714** | 0.412 | 32.6 | 1 ¼ | 3.7 |
| 50 | 11 | 10 | **167 480 715** | 0.638 | 40.8 | 1 ½ | 4.6 |
| 63 | 11 | 10 | **167 480 716** | 1.010 | 51.4 | 2 | 5.8 |
| 75 | 11 | 10 | **167 480 717** | 1.410 | 61.4 | 2 ½ | 6.8 |
| 90 | 11 | 10 | **167 480 718** | 2.030 | 73.6 | 3 | 8.2 |
| 110 | 11 | 10 | **167 480 719** | 3.010 | 90.0 | 4 | 10.0 |
| 125 | 11 | 10 | **167 480 720** | 3.910 | 102.2 | 4 ½ | 11.4 |
| 140 | 11 | 10 | **167 480 721** | 4.870 | 114.6 | 5 | 12.7 |
| 160 | 11 | 10 | **167 480 722** | 6.380 | 130.8 | 6 | 14.6 |
| 180 | 11 | 10 | **167 480 723** | 8.070 | 147.2 | 7 | 16.4 |
| 200 | 11 | 10 | **167 480 724** | 9.950 | 163.6 | 8 | 18.2 |
| 225 | 11 | 10 | **167 480 725** | 12.600 | 184.0 | 9 | 20.5 |
| 250 | 11 | 10 | **167 480 726** | 15.500 | 204.6 | 10 | 22.7 |
| 280 | 11 | 10 | **167 480 727** | 19.400 | 229.2 | 11 | 25.4 |
| 315 | 11 | 10 | **167 480 728** | 24.600 | 257.8 | 12 | 28.6 |
| 355 | 11 | 10 | **167 480 729** | 31.200 | 290.6 | 14 | 32.2 |
| 400 | 11 | 10 | **167 480 730** | 39.600 | 327.4 | 16 | 36.3 |
| 450 | 11 | 10 | **167 480 731** | 50.200 | 368.2 | 18 | 40.9 |
| 500 | 11 | 10 | **167 480 732** | 63.300 | 409.2 | 20 | 45.4 |






## PROGEF Standard pipe
## SDR17,6/PN6/S8,3

**Model:**

- Material: PP-H - homopolymer
- Dimension: acc. to DIN 8077/78 and DIN EN 15494
- Colour: light grey RAL 7032
- Pipe length: 5000mm, with plain ends

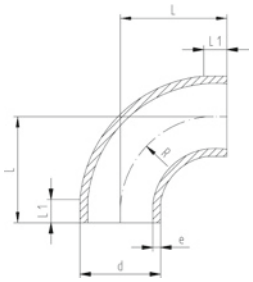
| d (mm) | SDR | PN (bar) | Code | Weight (kg/m) | e (mm) |
|---|---|---|---|---|---|
| 25 | 17.6 | 6 | **167 480 676** | 0.132 | 1.8 |
| 32 | 17.6 | 6 | **167 480 678** | 0.172 | 1.9 |
| 40 | 17.6 | 6 | **167 480 679** | 0.273 | 2.3 |
| 50 | 17.6 | 6 | **167 480 680** | 0.422 | 2.9 |
| 63 | 17.6 | 6 | **167 480 681** | 0.659 | 3.6 |
| 75 | 17.6 | 6 | **167 480 682** | 0.935 | 4.3 |
| 90 | 17.6 | 6 | **167 480 683** | 1.330 | 5.1 |
| 110 | 17.6 | 6 | **167 480 684** | 1.990 | 6.3 |
| 125 | 17.6 | 6 | **167 480 685** | 2.550 | 7.1 |
| 140 | 17.6 | 6 | **167 480 686** | 3.200 | 8.0 |
| 160 | 17.6 | 6 | **167 480 687** | 4.170 | 9.1 |
| 180 | 17.6 | 6 | **167 480 688** | 5.250 | 10.2 |
| 200 | 17.6 | 6 | **167 480 689** | 6.500 | 11.4 |
| 225 | 17.6 | 6 | **167 480 690** | 8.190 | 12.8 |
| 250 | 17.6 | 6 | **167 480 691** | 10.100 | 14.2 |
| 280 | 17.6 | 6 | **167 480 692** | 12.600 | 15.9 |
| 315 | 17.6 | 6 | **167 480 693** | 16.000 | 17.9 |
| 355 | 17.6 | 6 | **167 480 694** | 20.300 | 20.1 |
| 400 | 17.6 | 6 | **167 480 695** | 25.700 | 22.7 |
| 450 | 17.6 | 6 | **167 480 696** | 32.500 | 25.5 |
| 500 | 17.6 | 6 | **167 480 697** | 40.200 | 28.4 |

# Butt fusion fittings SDR 11









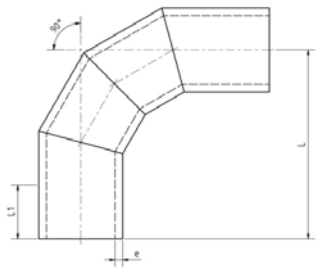

## PROGEF Standard Bend 90°
## SDR11/PN10

**Model:**

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible
- New code numbers in dimensions d125-d315 not available yet, please refer to the existing code numbers 727018615-727018523.

* Material:PP-R

| | d (mm) | SDR | PN (bar) | FM | Type | Code | Weight (kg) | L (mm) | L1 (mm) | R (mm) | e (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20 | 11 | 10 | IR | 1 | **727 018 606** | 0.008 | 38 | 23 | 15.00 | 1.9 |
| | 25 | 11 | 10 | IR | 1 | **727 018 607** | 0.013 | 42 | 23 | 19.00 | 2.3 |
| | 32 | 11 | 10 | IR | 1 | **727 018 608** | 0.022 | 46 | 22 | 24.00 | 2.9 |
| | 40 | 11 | 10 | IR | 1 | **727 018 609** | 0.040 | 51 | 21 | 30.00 | 3.7 |
| | 50 | 11 | 10 | IR | 1 | **727 018 610** | 0.067 | 58 | 21 | 37.00 | 4.6 |
| | 63 | 11 | 10 | IR | 1 | **727 018 611** | 0.117 | 66 | 21 | 45.00 | 5.8 |
| | 75 | 11 | 10 | IR | 2 | **727 018 622** | 0.178 | 75 | 21 | 71.25 | 6.8 |
| | 90 | 11 | 10 | IR | 2 | **727 018 623** | 0.308 | 90 | 22 | 85.50 | 8.2 |
| | 110 | 11 | 10 | IR | 2 | **727 018 624** | 0.556 | 110 | 25 | 104.50 | 10.0 |
| | 125 | 11 | 10 | IR | 2 | **727 018 315** | 0.952 | 145 | 34 | 127.00 | 11.4 |
| | 140 | 11 | 10 | IR | 2 | **727 018 316** | 1.319 | 162 | 38 | 142.00 | 12.7 |
| | 160 | 11 | 10 | IR | 2 | **727 018 317** | 1.933 | 183 | 40 | 162.00 | 14.6 |
| | 180 | 11 | 10 | IR | 2 | **727 018 318** | 2.621 | 200 | 38 | 182.00 | 16.4 |
| | 200 | 11 | 10 | IR | 2 | **727 018 319** | 3.552 | 220 | 40 | 202.00 | 18.2 |
| | 225 | 11 | 10 | IR | 2 | **727 018 320** | 5.003 | 245 | 41 | 228.00 | 20.5 |
| | 250 | 11 | 10 | IR | 2 | **727 018 321** | 7.080 | 280 | 51 | 253.00 | 22.7 |
| | 280 | 11 | 10 | IR | 2 | **727 018 322** | 9.823 | 310 | 52 | 283.00 | 25.4 |
| | 315 | 11 | 10 | IR | 2 | **727 018 323** | 14.024 | 350 | 61 | 318.00 | 28.6 |
| * | 355 | 11 | 10 | | 2 | **727 018 524** | 16.400 | 345 | 70 | 330.00 | 32.2 |
| * | 400 | 11 | 10 | | 2 | **727 018 525** | 22.220 | 365 | 70 | 350.00 | 36.3 |
| * | 450 | 11 | 10 | | 2 | **727 018 526** | 32.560 | 425 | 70 | 400.00 | 40.9 |
| * | 500 | 11 | 10 | | 2 | **727 018 527** | 44.840 | 470 | 90 | 445.00 | 45.4 |

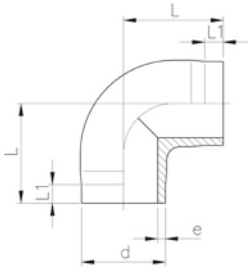



## Bend 90°, PP-H S5/SDR11

- big dimensions on request
- For butt- and electro fusion
- Reduction factor = 0,8

| d (mm) | Code | L (mm) | L1 (mm) | e (mm) |
|---|---|---|---|---|
| 110 | **700 649 384** | 315 | 150 | 10.0 |
| 125 | **700 649 385** | 338 | 150 | 11.4 |
| 140 | **700 649 386** | 360 | 150 | 12.8 |
| 160 | **700 649 387** | 390 | 150 | 14.6 |
| 180 | **700 649 388** | 420 | 150 | 16.4 |
| 200 | **700 649 389** | 450 | 150 | 18.2 |
| 225 | **700 649 390** | 488 | 150 | 20.5 |
| 250 | **700 649 391** | 625 | 250 | 22.8 |
| 280 | **700 649 392** | 670 | 250 | 25.5 |
| 315 | **700 649 393** | 773 | 300 | 28.7 |
| 355 | **700 649 394** | 833 | 300 | 32.3 |
| 400 | **700 649 395** | 900 | 300 | 36.4 |





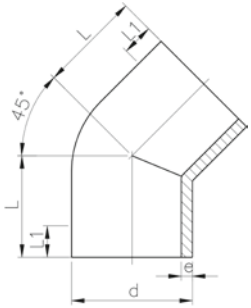

## PROGEF Standard Elbow 90°
## SDR11/PN10

**Model:**

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

| d (mm) | SDR | PN (bar) | FM | Code | Weight (kg) | L (mm) | L1 (mm) | e (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | 11 | 10 | IR | **727 108 506** | 0.008 | 38 | 25 | 1.9 |
| 25 | 11 | 10 | IR | **727 108 507** | 0.012 | 42 | 26 | 2.3 |
| 32 | 11 | 10 | IR | **727 108 508** | 0.022 | 46 | 27 | 2.9 |
| 40 | 11 | 10 | IR | **727 108 509** | 0.045 | 51 | 22 | 3.7 |
| 50 | 11 | 10 | IR | **727 108 510** | 0.080 | 58 | 23 | 4.6 |
| 63 | 11 | 10 | IR | **727 108 511** | 0.138 | 66 | 21 | 5.8 |






## PROGEF Standard Elbow 45°
## SDR11/PN10

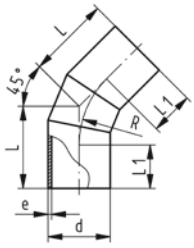
**Model:**

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible
- Long version for d250, d280 and d315

1) Material:PP-R

| | d (mm) | SDR | PN (bar) | FM | Code | Weight (kg) | L (mm) | L1 (mm) | e (mm) |
|---|---|---|---|---|---|---|---|---|---|
| | 20 | 11 | 10 | IR | **727 158 506** | 0.006 | 32 | 24.0 | 1.9 |
| | 25 | 11 | 10 | IR | **727 158 507** | 0.010 | 34 | 25.0 | 2.3 |
| | 32 | 11 | 10 | IR | **727 158 508** | 0.021 | 36 | 25.0 | 2.9 |
| | 40 | 11 | 10 | IR | **727 158 509** | 0.033 | 39 | 25.0 | 3.7 |
| | 50 | 11 | 10 | IR | **727 158 510** | 0.054 | 42 | 26.0 | 4.6 |
| | 63 | 11 | 10 | IR | **727 158 511** | 0.097 | 47 | 29.0 | 5.8 |
| | 75 | 11 | 10 | IR | **727 158 512** | 0.137 | 49 | 29.0 | 6.8 |
| | 90 | 11 | 10 | IR | **727 158 513** | 0.222 | 57 | 34.0 | 8.2 |
| | 110 | 11 | 10 | IR | **727 158 514** | 0.412 | 70 | 43.0 | 10.0 |
| | 125 | 11 | 10 | IR | **727 158 515** | 0.570 | 79 | 48.0 | 11.4 |
| | 140 | 11 | 10 | IR | **727 158 516** | 0.854 | 88 | 55.0 | 12.7 |
| | 160 | 11 | 10 | IR | **727 158 517** | 1.256 | 100 | 60.0 | 14.6 |
| | 200 | 11 | 10 | IR | **727 158 519** | 2.448 | 124 | 75.0 | 18.2 |
| | 225 | 11 | 10 | IR | **727 158 520** | 3.495 | 140 | 85.0 | 20.5 |
| 1 | 250 | 11 | 10 | IR | **727 158 521** | 7.890 | 225 | 133.0 | 22.7 |
| 1 | 280 | 11 | 10 | IR | **727 158 522** | 10.170 | 235 | 143.0 | 25.4 |
| 1 | 315 | 11 | 10 | IR | **727 158 523** | 11.690 | 255 | 154.0 | 28.6 |



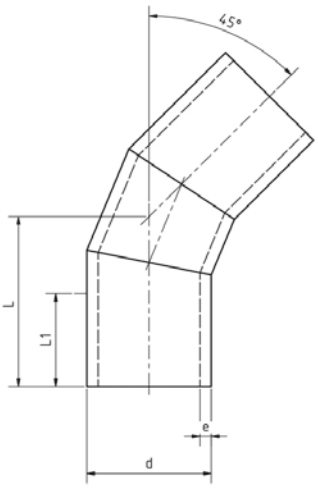



## PROGEF Standard Bend 45°
## SDR11/PN10

**Model:**

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- Production process: segment welded
- Segment-welded fittings have a pressure reduction factor of 0.8

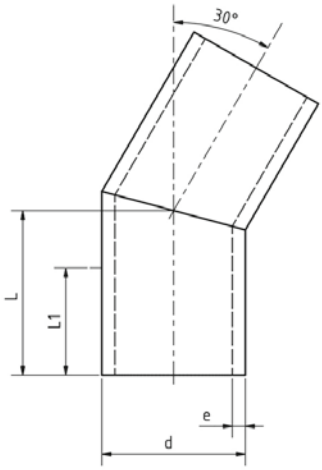
| d (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | R (mm) | e (mm) |
|---|---|---|---|---|---|---|---|---|
| 355 | 11 | 8 | **727 158 524** | 32.300 | 520 | 300 | 532.5 | 32.2 |
| 400 | 11 | 8 | **727 158 525** | 43.200 | 548 | 300 | 600.0 | 36.3 |
| 450 | 11 | 8 | **727 158 526** | 57.700 | 580 | 300 | 675.0 | 40.9 |
| 500 | 11 | 8 | **727 158 527** | 87.200 | 665 | 350 | 750.0 | 45.4 |




## PROGEF Elbow 45°, PP-H S5/SDR11

- big dimensions on request
- For butt- and electro fusion
- Reduction factor = 0,8

| d (mm) | Code | L (mm) | L1 (mm) | e (mm) |
|---|---|---|---|---|
| 110 | **700 649 444** | 218 | 150 | 10.0 |
| 125 | **700 649 445** | 228 | 150 | 11.4 |
| 140 | **700 649 446** | 237 | 150 | 12.8 |
| 160 | **700 649 447** | 249 | 150 | 14.6 |
| 180 | **700 649 448** | 262 | 150 | 16.4 |
| 200 | **700 649 449** | 274 | 150 | 18.2 |
| 225 | **700 649 450** | 290 | 150 | 20.5 |
| 250 | **700 649 451** | 412 | 250 | 22.8 |
| 280 | **700 649 452** | 424 | 250 | 25.5 |
| 315 | **700 649 453** | 498 | 300 | 28.7 |
| 355 | **700 649 454** | 520 | 300 | 32.3 |
| 400 | **700 649 455** | 548 | 300 | 36.4 |
| 450 | | 580 | 300 | 41.0 |
| 500 | | 665 | 350 | 45.5 |
| 560 | | 698 | 350 | 51.0 |
| 630 | | 741 | 350 | 57.3 |

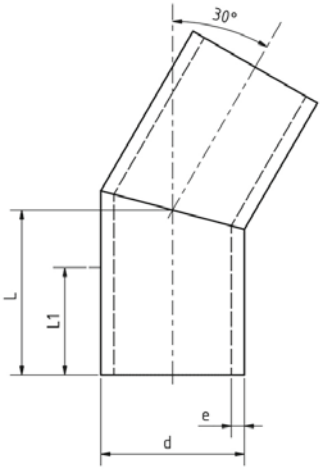



## PROGEF Elbow 30°, PP-H S5/SDR11

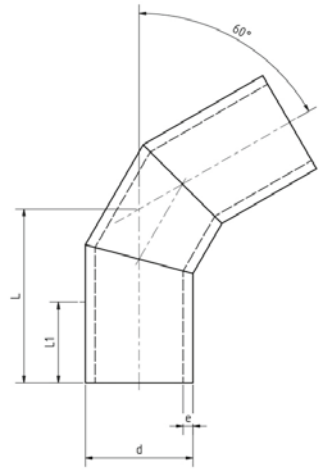
- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

| d (mm) | Code | L (mm) | L1 (mm) | e (mm) |
|---|---|---|---|---|
| 110 | **700 649 469** | 194 | 150 | 10.0 |
| 125 | **700 649 470** | 200 | 150 | 11.4 |
| 140 | **700 649 471** | 206 | 150 | 12.8 |
| 160 | **700 649 472** | 214 | 150 | 14.6 |
| 180 | **700 649 473** | 222 | 150 | 16.4 |
| 200 | **700 649 474** | 230 | 150 | 18.2 |
| 225 | **700 649 475** | 241 | 150 | 20.5 |
| 250 | **700 649 476** | 350 | 250 | 22.8 |
| 280 | **700 649 477** | 362 | 250 | 25.5 |
| 315 | **700 649 478** | 428 | 300 | 28.7 |
| 355 | **700 649 479** | 443 | 300 | 32.3 |

table continued on the next page



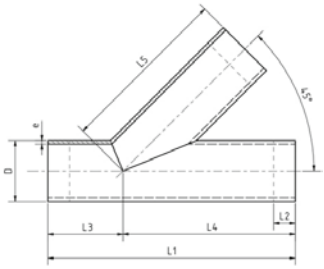

| d (mm) | Code | L (mm) | L1 (mm) | e (mm) |
|---|---|---|---|---|
| 400 | **700 649 480** | 461 | 300 | 36.4 |
| 450 | | 481 | 300 | 41.0 |
| 500 | | 551 | 350 | 45.5 |
| 560 | | 575 | 350 | 51.0 |
| 630 | | 603 | 350 | 57.3 |




## PROGEF Elbow 60°, PP-H S5/SDR11

- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

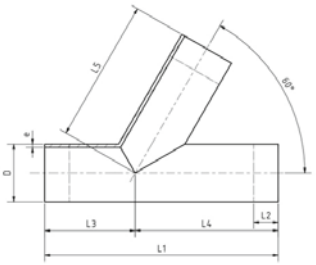
| d (mm) | Code | L (mm) | L1 (mm) | e (mm) |
|---|---|---|---|---|
| 110 | **700 649 420** | 245 | 150 | 10.0 |
| 125 | **700 649 421** | 258 | 150 | 11.4 |
| 140 | **700 649 422** | 271 | 150 | 12.8 |
| 160 | **700 649 423** | 288 | 150 | 14.6 |
| 180 | **700 649 424** | 305 | 150 | 16.4 |
| 200 | **700 649 425** | 323 | 150 | 18.2 |
| 225 | **700 649 426** | 345 | 150 | 20.5 |
| 250 | **700 649 427** | 466 | 250 | 22.8 |
| 280 | **700 649 428** | 492 | 250 | 25.5 |
| 315 | **700 649 429** | 576 | 300 | 28.7 |
| 355 | **700 649 430** | 608 | 300 | 32.3 |
| 400 | **700 649 431** | 646 | 300 | 36.4 |
| 450 | | 689 | 300 | 41.0 |
| 500 | | 783 | 350 | 45.5 |
| 560 | | 835 | 350 | 51.0 |
| 630 | | 896 | 350 | 57.3 |




## PROGEF Branch 45° PP-H S5/SDR11

- For butt- and electro fusion
- Reduction factor = 0,5

| d (mm) | Code | Weight (kg) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | e (mm) |
|---|---|---|---|---|---|---|---|---|
| 110 | **700 649 636** | 2.6 | 520 | 150 | 179.2 | 340.7 | 340.7 | 10.0 |
| 125 | **700 649 637** | 3.4 | 520 | 150 | 161.1 | 358.8 | 358.8 | 11.4 |
| 140 | **700 649 638** | 4.7 | 570 | 150 | 173.0 | 397.0 | 397.0 | 12.8 |
| 160 | **700 649 639** | 6.9 | 640 | 150 | 190.8 | 449.1 | 449.1 | 14.6 |
| 180 | **700 649 640** | 9.7 | 700 | 150 | 202.7 | 497.2 | 497.2 | 16.4 |
| 200 | **700 649 641** | 13.5 | 800 | 150 | 238.5 | 561.4 | 561.4 | 18.2 |
| 225 | **700 649 642** | 17.5 | 800 | 150 | 208.4 | 591.6 | 591.6 | 20.5 |
| 250 | **700 649 643** | 26.4 | 1000 | 250 | 298.2 | 701.7 | 701.7 | 22.8 |
| 280 | **700 649 644** | 33.7 | 1000 | 250 | 262.0 | 738.0 | 738.0 | 25.5 |
| 315 | **700 649 645** | 54.1 | 1300 | 300 | 399.7 | 900.2 | 900.2 | 28.7 |
| 355 | **700 649 646** | 78.9 | 1500 | 300 | 471.4 | 1028.5 | 1028.5 | 32.3 |
| 400 | **700 649 647** | 102.3 | 1500 | 300 | 417.1 | 1082.8 | 7082.8 | 36.4 |

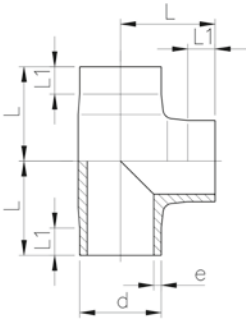



## PROGEF Branch 60° PP-H S5/SDR11

- For butt- and electro fusion
- Reduction factor = 0,5

| d (mm) | Code | L1 (mm) | L2 (mm) | e (mm) |
|---|---|---|---|---|
| 110 | **700 649 660** | 150 | 520 | 10.0 |
| 125 | **700 649 661** | 150 | 520 | 11.4 |
| 140 | **700 649 662** | 150 | 570 | 12.8 |
| 160 | **700 649 663** | 150 | 640 | 14.6 |
| 180 | **700 649 664** | 150 | 700 | 16.4 |
| 200 | **700 649 665** | 150 | 800 | 18.2 |
| 225 | **700 649 666** | 150 | 800 | 20.5 |
| 250 | **700 649 667** | 250 | 1000 | 22.8 |
| 280 | **700 649 668** | 250 | 1000 | 25.5 |
| 315 | **700 649 669** | 300 | 1300 | 28.7 |
| 355 | **700 649 670** | 300 | 1500 | 32.3 |
| 400 | **700 649 671** | 300 | 1500 | 36.4 |





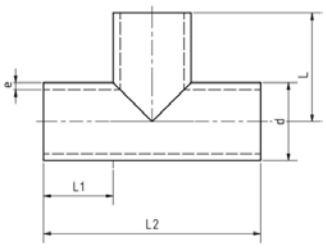

## PROGEF Standard Tee 90° equal SDR11/PN10

**Model:**

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

[1] Material: PP-R

| | d (mm) | SDR | PN (bar) | FM | Code | Weight (kg) | L (mm) | L1 (mm) | e (mm) |
|---|---|---|---|---|---|---|---|---|---|
| | 20 | 11 | 10 | IR | **727 208 506** | 0.011 | 38 | 21 | 1.9 |
| | 25 | 11 | 10 | IR | **727 208 507** | 0.018 | 42 | 21 | 2.3 |
| | 32 | 11 | 10 | IR | **727 208 508** | 0.032 | 46 | 21 | 2.9 |
| | 40 | 11 | 10 | IR | **727 208 509** | 0.062 | 51 | 23 | 3.7 |
| | 50 | 11 | 10 | IR | **727 208 510** | 0.105 | 58 | 22 | 4.6 |
| | 63 | 11 | 10 | IR | **727 208 511** | 0.186 | 66 | 20 | 5.8 |
| | 75 | 11 | 10 | IR | **727 208 512** | 0.293 | 75 | 20 | 6.8 |
| | 90 | 11 | 10 | IR | **727 208 513** | 0.521 | 90 | 20 | 8.2 |
| | 110 | 11 | 10 | IR | **727 208 514** | 0.928 | 110 | 20 | 10.0 |
| | 125 | 11 | 10 | IR | **727 208 515** | 1.347 | 125 | 25 | 11.4 |
| | 140 | 11 | 10 | IR | **727 208 516** | 1.923 | 140 | 28 | 12.7 |
| | 160 | 11 | 10 | IR | **727 208 517** | 2.844 | 160 | 28 | 14.6 |
| | 180 | 11 | 10 | IR | **727 208 518** | 5.475 | 215 | 94 | 16.4 |
| | 200 | 11 | 10 | IR | **727 208 519** | 5.579 | 200 | 35 | 18.2 |
| | 225 | 11 | 10 | IR | **727 208 520** | 7.812 | 220 | 35 | 20.5 |
| | 250 | 11 | 10 | IR | **727 208 521** | 10.400 | 227 | 68 | 22.7 |
| | 280 | 11 | 10 | IR | **727 208 522** | 15.170 | 267 | 87 | 25.4 |
| | 315 | 11 | 10 | IR | **727 208 523** | 20.330 | 283 | 86 | 28.6 |
| 1 | 355 | 11 | 10 | -- | **727 208 524** | 31.100 | 345 | 105 | 32.2 |
| 1 | 400 | 11 | 10 | -- | **727 208 525** | 40.900 | 365 | 105 | 36.3 |
| 1 | 450 | 11 | 10 | -- | **727 208 526** | 60.300 | 425 | 135 | 40.9 |
| 1 | 500 | 11 | 10 | -- | **727 208 527** | 81.900 | 470 | 155 | 45.4 |

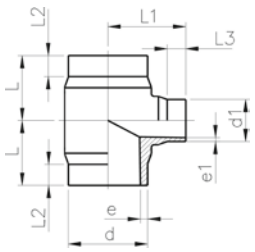



## PROGEF Tee 90°, equal, PP-H S5/SDR11

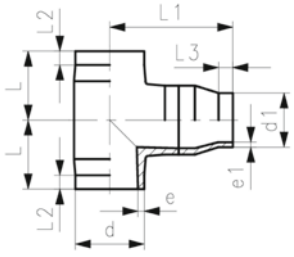
- For butt- and electro fusion
- Reduction factor = 0,6
- big dimensions on request

| d (mm) | Code | L (mm) | L1 (mm) | L2 (mm) | e (mm) |
|---|---|---|---|---|---|
| 110 | | 205 | 150 | 410 | 10.0 |
| 125 | | 215 | 150 | 430 | 11.4 |
| 140 | | 220 | 150 | 440 | 12.8 |
| 160 | | 230 | 150 | 460 | 14.6 |
| 180 | | 240 | 150 | 480 | 16.4 |
| 200 | | 250 | 150 | 500 | 18.2 |
| 225 | **700 649 481** | 265 | 150 | 530 | 20.5 |
| 250 | **700 649 482** | 375 | 250 | 750 | 22.8 |
| 280 | **700 649 483** | 390 | 250 | 780 | 25.5 |
| 315 | **700 649 484** | 460 | 300 | 920 | 28.7 |
| 355 | **700 649 485** | 480 | 300 | 960 | 32.3 |
| 400 | **700 649 486** | 500 | 300 | 1000 | 36.4 |
| 450 | | 525 | 300 | 1050 | 41.0 |
| 500 | | 600 | 350 | 1200 | 45.5 |
| 560 | | 630 | 350 | 1260 | 51.0 |
| 630 | | 665 | 350 | 1330 | 57.3 |






1




## PROGEF Standard Tee 90° reduced SDR11/PN10

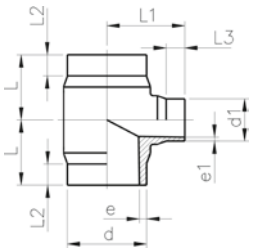
**Model:**

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

[1]with IR welded reducer

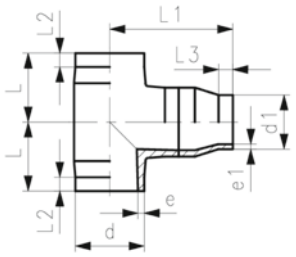
| | d (mm) | d1 (mm) | SDR | PN (bar) | FM | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | e (mm) | e1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 63 | 32 | 11 | 10 | IR | **727 208 351** | 0.161 | 65 | 70 | 25 | 25 | 5.8 | 2.9 |
| | 63 | 40 | 11 | 10 | IR | **727 208 350** | 0.165 | 65 | 70 | 25 | 25 | 5.8 | 3.7 |
| | 63 | 50 | 11 | 10 | IR | **727 208 352** | 0.170 | 65 | 70 | 25 | 25 | 5.8 | 4.6 |
| | 75 | 32 | 11 | 10 | IR | **727 208 353** | 0.238 | 70 | 75 | 25 | 25 | 6.8 | 2.9 |
| | 75 | 50 | 11 | 10 | IR | **727 208 354** | 0.249 | 70 | 75 | 25 | 25 | 6.8 | 4.6 |
| | 75 | 63 | 11 | 10 | IR | **727 208 355** | 0.258 | 70 | 75 | 25 | 25 | 6.8 | 5.8 |
| | 90 | 50 | 11 | 10 | IR | **727 208 357** | 0.420 | 80 | 85 | 25 | 25 | 8.2 | 4.6 |
| | 90 | 63 | 11 | 10 | IR | **727 208 358** | 0.428 | 80 | 85 | 25 | 25 | 8.2 | 5.8 |
| | 90 | 75 | 11 | 10 | IR | **727 208 359** | 0.430 | 80 | 85 | 25 | 25 | 8.2 | 6.8 |
| | 110 | 32 | 11 | 10 | IR | **727 208 360** | 0.652 | 90 | 95 | 30 | 25 | 10.0 | 2.9 |
| | 110 | 50 | 11 | 10 | IR | **727 208 361** | 0.659 | 90 | 95 | 30 | 25 | 10.0 | 4.6 |
| | 110 | 63 | 11 | 10 | IR | **727 208 362** | 0.665 | 90 | 95 | 30 | 25 | 10.0 | 5.8 |
| | 110 | 75 | 11 | 10 | IR | **727 208 363** | 0.681 | 90 | 95 | 30 | 25 | 10.0 | 6.8 |
| | 110 | 90 | 11 | 10 | IR | **727 208 364** | 0.701 | 90 | 95 | 30 | 25 | 10.0 | 8.2 |
| 1 | 125 | 63 | 11 | 10 | IR | **727 208 365** | 1.680 | 125 | 230 | 25 | 16 | 11.4 | 5.8 |
| 1 | 125 | 90 | 11 | 10 | IR | **727 208 066** | 1.700 | 125 | 225 | 25 | 40 | 11.4 | 8.2 |
| 1 | 125 | 110 | 11 | 10 | IR | **727 208 367** | 1.700 | 125 | 217 | 25 | 30 | 11.4 | 10.0 |
| 1 | 140 | 75 | 11 | 10 | IR | **727 208 068** | 2.400 | 140 | 245 | 28 | 41 | 12.7 | 6.8 |
| 1 | 140 | 90 | 11 | 10 | IR | **727 208 069** | 2.358 | 140 | 240 | 28 | 40 | 12.7 | 8.2 |
| | 160 | 63 | 11 | 10 | IR | **727 208 371** | 2.130 | 142 | 135 | 50 | 30 | 14.6 | 5.8 |
| | 160 | 75 | 11 | 10 | IR | **727 208 372** | 2.143 | 142 | 135 | 50 | 30 | 14.6 | 6.8 |
| | 160 | 90 | 11 | 10 | IR | **727 208 373** | 2.148 | 142 | 135 | 50 | 30 | 14.6 | 8.2 |
| 1 | 140 | 110 | 11 | 10 | IR | **727 208 370** | 2.380 | 140 | 242 | 28 | 33 | 12.7 | 10.0 |
| | 160 | 110 | 11 | 10 | IR | **727 208 374** | 2.186 | 142 | 135 | 50 | 30 | 14.6 | 10.0 |
| | 160 | 125 | 11 | 10 | IR | **727 208 075** | 3.600 | 160 | 272 | 28 | 32 | 14.6 | 11.4 |
| 1 | 200 | 160 | 11 | 10 | IR | **727 208 385** | 6.632 | 200 | 332 | 35 | 40 | 18.2 | 14.6 |
| | 200 | 180 | 11 | 10 | IR | **727 208 086** | 6.900 | 200 | 335 | 35 | 45 | 18.2 | 16.4 |

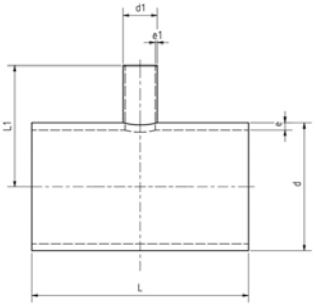
table continued on the next page




| | d (mm) | d1 (mm) | SDR | PN (bar) | FM | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | e (mm) | e1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 225 | 90 | 11 | 10 | IR | **727 208 388** | 4.576 | 155 | 165 | 40 | 30 | 20.5 | 8.2 |
| | 225 | 110 | 11 | 10 | IR | **727 208 389** | 4.624 | 155 | 165 | 40 | 30 | 20.5 | 10.0 |
| | 225 | 160 | 11 | 10 | IR | **727 208 391** | 4.685 | 155 | 165 | 40 | 30 | 20.5 | 14.6 |
| | 250 | 160 | 11 | 10 | | **727 208 093** | 12.500 | 227 | 387 | 68 | 53 | 22.7 | 14.6 |

1



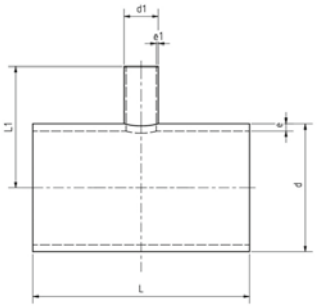




## PROGEF Tee 90°, reduced, PP-H S5/SDR11

- For butt- and electro fusion
- Reduction factor = 0,6
- big dimensions on request

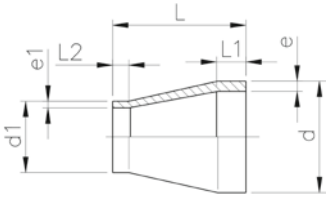
| d (mm) | d1 (mm) | Code | L (mm) | L1 (mm) | e (mm) | e1 (mm) |
|---|---|---|---|---|---|---|
| 225 | 63 | **700 649 493** | 363 | 238 | 20.5 | 5,8 |
| 225 | 75 | **700 649 494** | 375 | 238 | 20.5 | 6,9 |
| 225 | 90 | **700 649 495** | 390 | 238 | 20.5 | 8,2 |
| 225 | 110 | **700 649 496** | 410 | 238 | 20.5 | 10,0 |
| 225 | 125 | **700 649 497** | 425 | 238 | 20.5 | 11,4 |
| 225 | 140 | **700 649 498** | 440 | 238 | 20.5 | 12,8 |
| 225 | 160 | **700 649 499** | 460 | 238 | 20.5 | 14,6 |
| 250 | 75 | **700 649 500** | 475 | 250 | 22.8 | 6,9 |
| 250 | 90 | **700 649 501** | 490 | 250 | 22.8 | 8,2 |
| 250 | 110 | **700 649 502** | 510 | 250 | 22.8 | 10,0 |
| 250 | 125 | **700 649 503** | 525 | 250 | 22.8 | 11,4 |
| 250 | 140 | **700 649 504** | 540 | 250 | 22.8 | 12,8 |
| 250 | 160 | **700 649 505** | 560 | 250 | 22.8 | 14,6 |
| 250 | 180 | **700 649 506** | 580 | 275 | 22.8 | 16,4 |
| 280 | 75 | **700 649 507** | 475 | 265 | 25.5 | 6,9 |
| 280 | 90 | **700 649 508** | 490 | 265 | 25.5 | 8,2 |
| 280 | 110 | **700 649 509** | 510 | 265 | 25.5 | 10,0 |
| 280 | 125 | **700 649 510** | 525 | 265 | 25.5 | 11,4 |
| 280 | 140 | **700 649 511** | 540 | 265 | 25.5 | 12,8 |
| 280 | 160 | **700 649 512** | 560 | 265 | 25.5 | 14,6 |
| 280 | 180 | **700 649 513** | 580 | 290 | 25.5 | 16,4 |
| 280 | 200 | **700 649 514** | 600 | 290 | 25.5 | 18,2 |
| 315 | 90 | **700 649 515** | 490 | 283 | 28.7 | 8,2 |
| 315 | 110 | **700 649 516** | 510 | 283 | 28.7 | 10,0 |
| 315 | 125 | **700 649 517** | 525 | 283 | 28.7 | 11,4 |
| 315 | 140 | **700 649 518** | 540 | 283 | 28.7 | 12,8 |
| 315 | 160 | **700 649 519** | 560 | 283 | 28.7 | 14,6 |
| 315 | 180 | **700 649 520** | 580 | 308 | 28.7 | 16,4 |
| 315 | 200 | **700 649 521** | 600 | 308 | 28.7 | 18,2 |
| 315 | 225 | **700 649 523** | 625 | 308 | 28.7 | 20,5 |
| 355 | 110 | **700 649 524** | 510 | 303 | 32.3 | 10,0 |
| 355 | 125 | **700 649 525** | 525 | 303 | 32.3 | 11,4 |
| 355 | 140 | **700 649 526** | 540 | 303 | 32.3 | 12,8 |
| 355 | 160 | **700 649 527** | 560 | 303 | 32.3 | 14,6 |
| 355 | 180 | **700 649 528** | 580 | 328 | 32.3 | 16,4 |
| 355 | 200 | **700 649 529** | 600 | 328 | 32.3 | 18,2 |

table continued on the next page



| d (mm) | d1 (mm) | Code | L (mm) | L1 (mm) | e (mm) | e1 (mm) |
|---|---|---|---|---|---|---|
| 355 | 225 | **700 649 530** | 625 | 328 | 32.3 | 20,5 |
| 355 | 250 | **700 649 531** | 650 | 378 | 32.3 | 22,8 |
| 400 | 110 | **700 649 532** | 510 | 325 | 36.4 | 10,0 |
| 400 | 125 | **700 649 533** | 525 | 325 | 36.4 | 11,4 |
| 400 | 140 | **700 649 534** | 540 | 325 | 36.4 | 12,8 |
| 400 | 160 | **700 649 535** | 560 | 325 | 36.4 | 14,6 |
| 400 | 180 | **700 649 536** | 580 | 350 | 36.4 | 16,4 |
| 400 | 200 | **700 649 537** | 600 | 350 | 36.4 | 18,2 |
| 400 | 225 | **700 649 538** | 625 | 350 | 36.4 | 20,5 |
| 400 | 250 | **700 649 539** | 650 | 400 | 36.4 | 22,8 |
| 400 | 280 | **700 649 540** | 680 | 400 | 36.4 | 25,5 |






## PROGEF Standard reducer
## SDR11/PN10

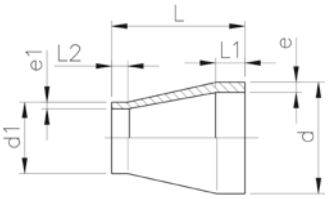
**Model:**

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

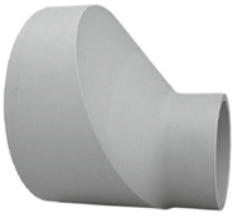
Material:PP-R

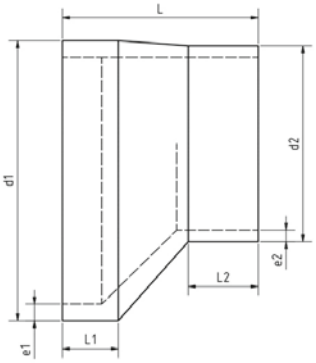
| d (mm) | d1 (mm) | SDR | PN (bar) | FM | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) | e (mm) | e1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 20 | 11 | 10 | IR | **727 908 537** | 0.007 | 50 | 20 | 20 | 2.3 | 1.9 |
| 32 | 20 | 11 | 10 | IR | **727 908 542** | 0.010 | 50 | 20 | 20 | 2.9 | 1.9 |
| 32 | 25 | 11 | 10 | IR | **727 908 541** | 0.010 | 50 | 20 | 20 | 2.9 | 2.3 |
| 40 | 20 | 11 | 10 | IR | **727 908 548** | 0.016 | 58 | 20 | 23 | 3.7 | 1.9 |
| 40 | 25 | 11 | 10 | IR | **727 908 547** | 0.016 | 55 | 20 | 20 | 3.7 | 2.3 |
| 40 | 32 | 11 | 10 | IR | **727 908 546** | 0.018 | 55 | 20 | 20 | 3.7 | 2.9 |
| 50 | 25 | 11 | 10 | IR | **727 908 554** | 0.024 | 60 | 20 | 20 | 4.6 | 2.3 |
| 50 | 32 | 11 | 10 | IR | **727 908 553** | 0.027 | 60 | 20 | 20 | 4.6 | 2.9 |
| 50 | 40 | 11 | 10 | IR | **727 908 552** | 0.030 | 60 | 20 | 20 | 4.6 | 3.7 |
| 63 | 32 | 11 | 10 | IR | **727 908 560** | 0.043 | 65 | 20 | 20 | 5.8 | 2.9 |
| 63 | 40 | 11 | 10 | IR | **727 908 559** | 0.047 | 65 | 20 | 20 | 5.8 | 3.7 |
| 63 | 50 | 11 | 10 | IR | **727 908 558** | 0.051 | 65 | 20 | 20 | 5.8 | 4.6 |
| 75 | 40 | 11 | 10 | IR | **727 908 566** | 0.062 | 68 | 20 | 20 | 6.8 | 3.7 |
| 75 | 50 | 11 | 10 | IR | **727 908 565** | 0.071 | 65 | 20 | 20 | 6.8 | 4.6 |
| 90 | 63 | 11 | 10 | IR | **727 908 571** | 0.115 | 75 | 22 | 19 | 8.2 | 5.8 |
| 75 | 63 | 11 | 10 | IR | **727 908 564** | 0.075 | 65 | 20 | 20 | 6.8 | 5.8 |
| 90 | 75 | 11 | 10 | IR | **727 908 570** | 0.130 | 75 | 22 | 19 | 8.2 | 6.8 |
| 110 | 63 | 11 | 10 | IR | **727 908 572** | 0.201 | 90 | 28 | 28 | 10.6 | 6.2 |
| 110 | 75 | 11 | 10 | IR | **727 908 577** | 0.215 | 90 | 28 | 18 | 10.0 | 6.8 |
| 110 | 90 | 11 | 10 | IR | **727 908 576** | 0.225 | 90 | 28 | 30 | 10.0 | 8.2 |
| 125 | 110 | 11 | 10 | IR | **727 908 580** | 0.335 | 100 | 32 | 30 | 11.4 | 10.0 |
| 140 | 110 | 11 | 10 | IR | **727 908 585** | 0.423 | 110 | 33 | 29 | 12.7 | 10.0 |
| 140 | 125 | 11 | 10 | IR | **727 908 584** | 0.462 | 110 | 34 | 30 | 12.7 | 11.4 |
| 160 | 110 | 11 | 10 | IR | **727 908 590** | 0.586 | 120 | 39 | 27 | 14.6 | 10.0 |
| 160 | 140 | 11 | 10 | IR | **727 908 588** | 0.647 | 120 | 40 | 35 | 14.6 | 12.7 |
| 180 | 90 | 11 | 10 | IR | **727 908 149** | 0.800 | 145 | 50 | 40 | 16.4 | 8.8 |
| 180 | 110 | 11 | 10 | IR | **727 908 150** | 1.010 | 150 | 50 | 40 | 16.4 | 10.0 |
| 180 | 125 | 11 | 10 | IR | **727 908 151** | 0.985 | 145 | 52 | 40 | 16.4 | 11.4 |
| 180 | 140 | 11 | 10 | IR | **727 908 152** | 0.995 | 135 | 51 | 47 | 16.4 | 12.7 |
| 180 | 160 | 11 | 10 | IR | **727 908 153** | 1.020 | 135 | 55 | 52 | 16.4 | 14.6 |
| 200 | 160 | 11 | 10 | IR | **727 908 592** | 1.149 | 145 | 50 | 40 | 18.2 | 14.6 |
| 200 | 180 | 11 | 10 | IR | **727 908 158** | 1.300 | 130 | 50 | 45 | 18.2 | 16.4 |
| 225 | 110 | 11 | 10 | IR | **727 908 595** | 1.485 | 160 | 55 | 35 | 20.5 | 10.0 |
| 225 | 160 | 11 | 10 | IR | **727 908 596** | 1.590 | 160 | 55 | 40 | 20.5 | 14.6 |
| 225 | 180 | 11 | 10 | IR | **727 908 162** | 1.770 | 163 | 60 | 58 | 20.5 | 16.4 |
| 225 | 200 | 11 | 10 | IR | **727 908 597** | 1.723 | 160 | 55 | 50 | 20.5 | 18.2 |
| 250 | 160 | 11 | 10 | IR | **727 908 165** | 2.140 | 180 | 70 | 50 | 22.7 | 14.6 |
| 250 | 225 | 11 | 10 | IR | **727 908 168** | 2.750 | 190 | 65 | 65 | 22.7 | 20.5 |
| 280 | 225 | 11 | 10 | IR | **727 908 172** | 3.425 | 203 | 72 | 57 | 25.4 | 20.5 |

table continued on the next page




| | d (mm) | d1 (mm) | SDR | PN (bar) | FM | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) | e (mm) | e1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 280 | 250 | 11 | 10 | IR | **727 908 173** | 1.980 | 206 | 75 | 60 | 25.4 | 22.7 |
| | 315 | 225 | 11 | 10 | IR | **727 908 176** | 5.110 | 237 | 84 | 60 | 28.6 | 20.5 |
| | 315 | 250 | 11 | 10 | IR | **727 908 177** | 5.105 | 231 | 86 | 63 | 28.6 | 22.7 |
| | 315 | 280 | 11 | 10 | IR | **727 908 178** | 5.130 | 222 | 80 | 70 | 28.6 | 25.4 |
| 1 | 355 | 250 | 11 | 10 | | **727 908 963** | 5.490 | 190 | 90 | 60 | 32.3 | 22.7 |
| 1 | 355 | 280 | 11 | 10 | | **727 908 962** | 5.462 | 190 | 90 | 70 | 32.2 | 25.4 |
| 1 | 355 | 315 | 11 | 10 | | **727 908 961** | 3.700 | 190 | 90 | 80 | 32.2 | 28.6 |
| 1 | 400 | 315 | 11 | 10 | | **727 908 966** | 5.300 | 210 | 95 | 80 | 36.3 | 28.6 |
| 1 | 400 | 355 | 11 | 10 | | **727 908 965** | 4.800 | 205 | 95 | 90 | 36.3 | 32.2 |
| | 450 | 280 | 11 | 10 | | **727 908 960** | 9.000 | 160 | 65 | 40 | 40.9 | 25.4 |
| | 450 | 315 | 11 | 10 | | **727 908 948** | 8.000 | 180 | 60 | 80 | 40.9 | 28.6 |
| | 450 | 355 | 11 | 10 | | **727 908 950** | 7.400 | 180 | 60 | 90 | 40.9 | 32.2 |
| | 450 | 400 | 11 | 10 | | **727 908 951** | 6.000 | 230 | 60 | 95 | 40.9 | 36.3 |
| | 500 | 315 | 11 | 10 | | **727 908 953** | 12.000 | 200 | 60 | 80 | 45.4 | 28.6 |
| | 500 | 355 | 11 | 10 | | **727 908 954** | 10.800 | 200 | 60 | 90 | 45.4 | 32.2 |
| | 500 | 400 | 11 | 10 | | **727 908 956** | 10.000 | 230 | 60 | 95 | 45.4 | 36.3 |
| | 500 | 450 | 11 | 10 | | **727 908 964** | 8.300 | 120 | 60 | 40 | 45.4 | 40.9 |





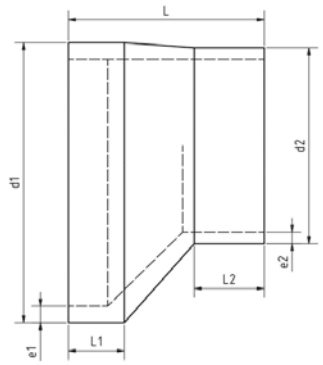

## PROGEF Reducing Bushes excentric, PP-H SDR11

**Model:**

- Machined
- Conventional butt-welding according to DVS 2207

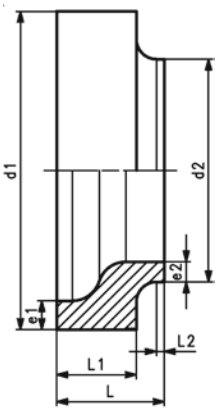
| d1 (mm) | d2 (mm) | PN (bar) | Code | L2 (mm) | L (mm) | e2 (mm) | L1 (mm) | e1 (mm) |
|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 10 | **700 647 700** | 35 | 120 | 4,6 | 35 | 5,8 |
| 75 | 50 | 10 | **700 647 701** | 35 | 120 | 4,6 | 40 | 6,8 |
| 75 | 63 | 10 | **700 647 702** | 35 | 120 | 5,8 | 40 | 6,8 |
| 90 | 63 | 10 | **700 647 703** | 50 | 140 | 5,8 | 50 | 8,2 |
| 90 | 75 | 10 | **700 647 704** | 50 | 140 | 6,8 | 50 | 8,2 |
| 110 | 75 | 10 | **700 647 705** | 50 | 140 | 6,8 | 50 | 10 |
| 110 | 90 | 10 | **700 647 706** | 50 | 140 | 8,2 | 50 | 10 |
| 125 | 90 | 10 | **700 647 707** | 50 | 140 | 5,1 | 50 | 11,4 |
| 125 | 110 | 10 | **700 647 708** | 50 | 140 | 10 | 50 | 11,4 |
| 140 | 90 | 10 | **700 647 709** | 50 | 140 | 8,2 | 50 | 12,7 |
| 140 | 110 | 10 | **700 647 710** | 50 | 140 | 10 | 50 | 12,7 |
| 160 | 90 | 10 | **700 647 711** | 54 | 140 | 8,2 | 50 | 14,6 |
| 160 | 110 | 10 | **700 647 712** | 45 | 120 | 10 | 40 | 14,6 |
| 160 | 125 | 10 | **700 647 713** | 44 | 110 | 11,4 | 40 | 14,6 |
| 160 | 140 | 10 | **700 647 714** | 33 | 90 | 12,7 | 40 | 14,6 |
| 180 | 125 | 10 | **700 647 715** | 52 | 130 | 11,4 | 40 | 16,4 |
| 180 | 140 | 10 | **700 647 716** | 41 | 110 | 12,7 | 40 | 16,4 |
| 180 | 160 | 10 | **700 647 717** | 33 | 90 | 16,4 | 40 | 16,4 |
| 200 | 140 | 10 | **700 647 718** | 50 | 140 | 12,7 | 40 | 18,2 |
| 200 | 160 | 10 | **700 647 719** | 41 | 120 | 14,6 | 40 | 18,2 |
| 200 | 180 | 10 | **700 647 720** | 43 | 100 | 16,4 | 40 | 18,2 |
| 225 | 160 | 10 | **700 647 721** | 57 | 140 | 14,6 | 40 | 20,5 |
| 225 | 180 | 10 | **700 647 722** | 48 | 120 | 16,4 | 40 | 20,5 |
| 225 | 200 | 10 | **700 647 723** | 40 | 100 | 18,2 | 40 | 20,5 |
| 250 | 180 | 10 | **700 647 724** | 54 | 150 | 16,4 | 40 | 22,7 |
| 250 | 200 | 10 | **700 647 725** | 55 | 130 | 18,2 | 40 | 22,7 |
| 250 | 225 | 10 | **700 647 726** | 40 | 110 | 20,5 | 40 | 22,7 |
| 280 | 200 | 10 | **700 647 727** | 58 | 160 | 18,2 | 40 | 25,4 |
| 280 | 225 | 10 | **700 647 728** | 52 | 130 | 20,5 | 40 | 25,4 |
| 280 | 250 | 10 | **700 647 729** | 47 | 110 | 22,7 | 40 | 25,4 |
| 315 | 225 | 10 | **700 647 730** | 62 | 160 | 20,5 | 40 | 28,6 |
| 315 | 250 | 10 | **700 647 731** | 57 | 140 | 22,7 | 40 | 28,6 |
| 315 | 280 | 10 | **700 647 732** | 54 | 120 | 25,4 | 40 | 28,6 |
| 355 | 250 | 10 | **700 647 733** | 74 | 180 | 22,7 | 40 | 32,2 |
| 355 | 280 | 10 | **700 647 734** | 61 | 150 | 25,4 | 40 | 32,2 |
| 355 | 315 | 10 | **700 647 735** | 51 | 120 | 28,6 | 40 | 32,2 |

table continued on the next page




| d1 (mm) | d2 (mm) | PN (bar) | Code | L2 (mm) | L (mm) | e2 (mm) | L1 (mm) | e1 (mm) |
|---|---|---|---|---|---|---|---|---|
| 400 | 280 | 10 | **700 647 736** | 85 | 200 | 25,4 | 40 | 36,3 |
| 400 | 315 | 10 | **700 647 737** | 75 | 170 | 28,6 | 40 | 36,3 |
| 400 | 355 | 10 | **700 647 738** | 58 | 130 | 32,2 | 40 | 36,3 |
| 450 | 315 | 10 | **700 647 739** | 86 | 210 | 28,6 | 40 | 40,9 |
| 450 | 355 | 10 | **700 647 740** | 79 | 180 | 32,2 | 40 | 40,9 |
| 450 | 400 | 10 | **700 647 741** | 65 | 140 | 36,3 | 40 | 40,9 |
| 500 | 315 | 10 | **700 647 742** | 107 | 260 | 28,6 | 40 | 45,4 |
| 500 | 355 | 10 | **700 647 743** | 91 | 220 | 32,2 | 40 | 45,4 |
| 500 | 400 | 10 | **700 647 744** | 86 | 190 | 36,3 | 40 | 45,4 |
| 500 | 450 | 10 | **700 647 745** | 65 | 140 | 40,9 | 40 | 45,4 |
| 560 | 450 | 10 | **700 647 746** | 91 | 200 | 40,9 | 40 | 50,8 |
| 560 | 500 | 10 | **700 647 747** | 70 | 150 | 45,4 | 40 | 50,8 |
| 630 | 500 | 10 | **700 647 748** | 99 | 220 | 45,4 | 40 | 57,2 |
| 630 | 560 | 10 | **700 647 749** | 84 | 170 | 50,8 | 40 | 57,2 |



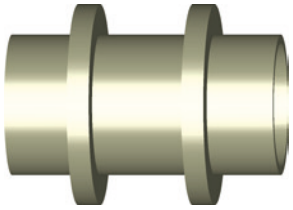


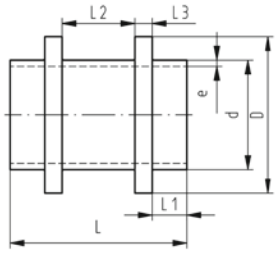

## PROGEF Standard Flush style reducer SDR11/PN10

**Model:**

- Material: PP-H
- Flush style design
- Conventional butt-welding according to DVS 2207
- Clamping on welding machine needs to be done always on the bigger diameter (d1)
- The butt fusion machine must be suitable to weld both dimensions (d1 and d2)

| d1 (mm) | d2 (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) | e1 (mm) | e2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 355 | 225 | 350 | 11 | 10 | **727 909 809** | 4.983 | 130 | 95 | 10 | 32.2 | 20.5 |
| 355 | 250 | | 11 | 10 | **727 909 810** | 3.574 | 115 | 80 | 10 | 32.2 | 22.7 |
| 355 | 280 | | 11 | 10 | **727 909 811** | 3.856 | 115 | 80 | 10 | 32.2 | 25.4 |
| 355 | 315 | | 11 | 10 | **727 909 812** | 3.952 | 115 | 80 | 15 | 32.2 | 28.6 |
| 400 | 225 | 400 | 11 | 10 | **727 909 816** | 7.587 | 145 | 110 | 10 | 36.3 | 20.5 |
| 400 | 250 | 400 | 11 | 10 | **727 909 817** | 6.955 | 140 | 105 | 10 | 36.3 | 22.7 |
| 400 | 280 | 400 | 11 | 10 | **727 909 818** | 6.363 | 135 | 100 | 10 | 36.3 | 25.4 |
| 400 | 315 | | 11 | 10 | **727 909 819** | 6.149 | 135 | 100 | 10 | 36.3 | 28.6 |
| 400 | 355 | | 11 | 10 | **727 909 820** | 5.811 | 135 | 100 | 13 | 36.3 | 32.2 |
| 450 | 225 | | 11 | 10 | **727 909 822** | 11.398 | 165 | 125 | 10 | 40.9 | 20.5 |
| 450 | 250 | | 11 | 10 | **727 909 823** | 10.561 | 160 | 120 | 10 | 40.9 | 22.7 |
| 450 | 280 | | 11 | 10 | **727 909 824** | 9.149 | 150 | 110 | 15 | 40.9 | 25.4 |
| 450 | 315 | | 11 | 10 | **727 909 825** | 8.660 | 150 | 110 | 15 | 40.9 | 28.6 |
| 450 | 355 | | 11 | 10 | **727 909 826** | 8.246 | 150 | 110 | 15 | 40.9 | 32.2 |
| 450 | 400 | | 11 | 10 | **727 909 827** | 7.973 | 150 | 110 | 15 | 40.9 | 36.3 |
| 500 | 225 | | 11 | 10 | **727 909 829** | 15.293 | 180 | 130 | 10 | 45.4 | 20.5 |
| 500 | 250 | | 11 | 10 | **727 909 830** | 15.037 | 180 | 130 | 10 | 45.4 | 22.7 |
| 500 | 280 | | 11 | 10 | **727 909 831** | 13.995 | 175 | 125 | 10 | 45.4 | 25.4 |
| 500 | 315 | | 11 | 10 | **727 909 832** | 10.404 | 165 | 115 | 10 | 45.4 | 28.6 |
| 500 | 355 | | 11 | 10 | **727 909 833** | 10.785 | 165 | 115 | 10 | 45.4 | 32.2 |
| 500 | 400 | | 11 | 10 | **727 909 834** | 11.863 | 165 | 115 | 10 | 45.4 | 36.3 |
| 500 | 450 | | 11 | 10 | **727 909 835** | 12.042 | 165 | 115 | 25 | 45.4 | 40.9 |





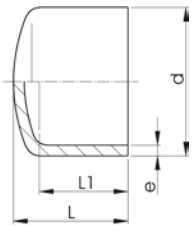

## PROGEF Standard Fixpoint fitting SDR11/PN10

**Model:**

- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207
- Machined

| d (mm) | SDR | PN (bar) | FM | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | D (mm) | e (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 11 | 10 | IR | **727 665 520** | 0.175 | 122 | 30 | 42 | 10 | 90 | 5.8 |
| 75 | 11 | 10 | IR | **727 665 521** | 0.254 | 122 | 30 | 42 | 10 | 110 | 6.8 |
| 90 | 11 | 10 | IR | **727 665 522** | 0.342 | 122 | 30 | 42 | 10 | 125 | 8.2 |
| 110 | 11 | 10 | IR | **727 665 523** | 0.567 | 142 | 30 | 52 | 15 | 140 | 10.0 |
| 125 | 11 | 10 | IR | **727 665 524** | 0.777 | 152 | 35 | 52 | 15 | 160 | 11.4 |
| 140 | 11 | 10 | IR | **727 665 525** | 1.023 | 162 | 40 | 52 | 15 | 180 | 12.7 |
| 160 | 11 | 10 | IR | **727 665 526** | 1.292 | 162 | 40 | 52 | 15 | 200 | 14.6 |
| 180 | 11 | 10 | IR | **727 665 527** | 1.917 | 182 | 45 | 52 | 20 | 225 | 16.4 |
| 200 | 11 | 10 | IR | **727 665 528** | 2.365 | 182 | 45 | 52 | 20 | 250 | 18.2 |
| 225 | 11 | 10 | IR | **727 665 529** | 3.294 | 192 | 45 | 52 | 25 | 280 | 20.5 |
| 250 | 11 | 10 | IR | **727 665 530** | 3.695 | 212 | 50 | 62 | 25 | 280 | 22.7 |
| 280 | 11 | 10 | IR | **727 665 531** | 4.997 | 222 | 50 | 62 | 30 | 315 | 25.4 |
| 315 | 11 | 10 | IR | **727 665 532** | 6.348 | 222 | 50 | 62 | 30 | 355 | 28.6 |
| 355 | 11 | 10 | | **727 665 533** | 7.405 | 192 | 30 | 62 | 35 | 400 | 32.2 |
| 400 | 11 | 10 | | **727 665 534** | 10.432 | 212 | 30 | 72 | 40 | 450 | 36.3 |
| 450 | 11 | 10 | | **727 665 535** | 14.153 | 232 | 35 | 72 | 45 | 500 | 40.9 |
| 500 | 11 | 10 | | **727 665 536** | 19.414 | 252 | 40 | 72 | 50 | 560 | 45.4 |





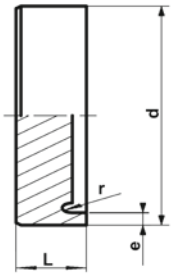

## PROGEF Standard End cap SDR11/PN10

**Model:**

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

| d (mm) | SDR | PN (bar) | FM | Code | Weight (kg) | L (mm) | L1 (mm) | e (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | 11 | 10 | IR | **727 968 106** | 0.005 | 49 | 42 | 1.9 |
| 25 | 11 | 10 | IR | **727 968 107** | 0.007 | 52 | 42 | 2.3 |
| 32 | 11 | 10 | IR | **727 968 108** | 0.016 | 57 | 47 | 2.9 |
| 40 | 11 | 10 | IR | **727 968 109** | 0.023 | 64 | 51 | 3.7 |
| 50 | 11 | 10 | IR | **727 968 110** | 0.048 | 72 | 59 | 4.6 |
| 63 | 11 | 10 | IR | **727 968 111** | 0.087 | 86 | 67 | 5.8 |
| 75 | 11 | 10 | IR | **727 968 112** | 0.138 | 94 | 73 | 6.8 |
| 90 | 11 | 10 | IR | **727 968 113** | 0.222 | 112 | 83 | 8.2 |
| 110 | 11 | 10 | IR | **727 968 114** | 0.375 | 124 | 90 | 10.0 |
| 125 | 11 | 10 | IR | **727 968 115** | 0.520 | 130 | 94 | 11.4 |
| 140 | 11 | 10 | IR | **727 968 116** | 0.695 | 142 | 99 | 12.7 |
| 160 | 11 | 10 | IR | **727 968 117** | 1.040 | 162 | 109 | 14.6 |
| 180 | 11 | 10 | IR | **727 968 118** | 1.375 | 170 | 113 | 16.4 |
| 200 | 11 | 10 | IR | **727 968 119** | 1.860 | 179 | 117 | 18.2 |
| 225 | 11 | 10 | IR | **727 968 120** | 2.625 | 203 | 127 | 20.5 |



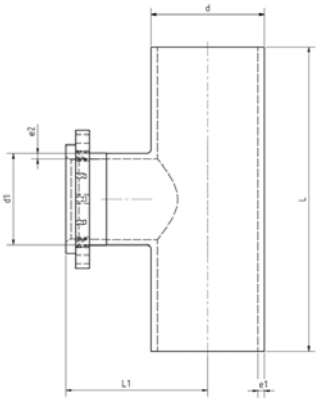



## PROGEF Standard End cap short
## SDR11/PN10

**Model:**

- Material: PP-R
- Machined
- Conventional butt-welding according to DVS 2207

| d (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | e (mm) |
|---|---|---|---|---|---|---|
| 250 | 11 | 10 | **727 968 846** | 1.900 | 60 | 22.7 |
| 280 | 11 | 10 | **727 968 847** | 2.600 | 65 | 25.4 |
| 315 | 11 | 10 | **727 968 848** | 3.600 | 70 | 28.6 |
| 355 | 11 | 10 | **727 968 849** | 5.100 | 80 | 32.2 |
| 400 | 11 | 10 | **727 968 850** | 7.200 | 85 | 36.3 |
| 450 | 11 | 10 | **727 968 851** | 10.200 | 95 | 40.9 |
| 500 | 11 | 10 | **727 968 852** | 14.000 | 105 | 74.5 |

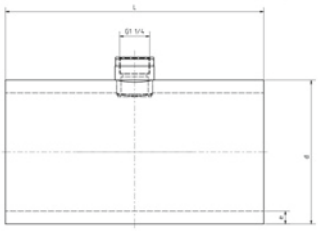


## Revision Tees 90°, PP-H SDR11

**Model:**

- Flued and butt fusion according to DVS2207
- Backing flanges to ISO 7005, EN 1092, DIN 2501, bolt circle PN10
- Reduction factor = 0,6
- big dimensions on request

| d (mm) | d1 (mm) | PN (bar) | Code | L1 (mm) | e2 (mm) | L (mm) | e1 (mm) |
|---|---|---|---|---|---|---|---|
| 110 | 110 | 10 | **700 665 628** | 236 | 10,0 | 500 | 10,0 |
| 125 | 125 | 10 | **700 665 629** | 248 | 11,4 | 500 | 11,4 |
| 140 | 140 | 10 | **700 665 630** | 265 | 12,7 | 500 | 12,7 |
| 160 | 110 | 10 | **700 665 631** | 278 | 10,0 | 500 | 14,6 |
| 180 | 110 | 10 | **700 665 632** | 350 | 10,0 | 500 | 16,4 |
| 200 | 140 | 10 | **700 665 633** | 350 | 12,7 | 500 | 18,2 |
| 225 | 140 | 10 | **700 665 634** | 400 | 12,7 | 560 | 20,5 |
| 250 | 160 | 10 | **700 665 635** | 450 | 14,6 | 750 | 22,7 |
| 280 | 225 | 10 | **700 665 636** | 350 | 20,5 | 750 | 25,4 |
| 315 | 225 | 10 | **700 665 637** | 400 | 20,5 | 850 | 28,6 |
| 355 | 225 | 10 | **700 665 638** | 450 | 20,5 | 950 | 32,2 |
| 400 | 225 | 10 | **700 665 639** | 450 | 20,5 | 1000 | 36,3 |

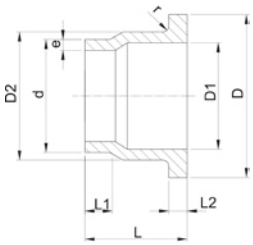


## Saddle-Tee, PP-H S5/SDR11 Outlet with female thread Rp, welded

- big dimensions on request
- For butt- and electro fusion
- Reduction factor = 0,8

| d (mm) | Thread 1 Code | Thread 11/4 Code | Weight (kg) | L (mm) | e (mm) |
|---|---|---|---|---|---|
| 110 | **700 649 588** | **700 649 600** | 14.000 | 260 | 10.0 |
| 125 | **700 649 589** | **700 649 601** | 14.700 | 260 | 11.4 |
| 140 | **700 649 590** | **700 649 602** | 1.370 | 260 | 12.8 |
| 160 | **700 649 591** | **700 649 603** | 16.207 | 260 | 14.6 |
| 180 | **700 649 592** | **700 649 604** | 17.017 | 360 | 16.4 |
| 200 | **700 649 593** | **700 649 605** | 17.868 | 360 | 18.2 |
| 225 | **700 649 594** | **700 649 606** | 18.761 | 360 | 20.5 |
| 280 | **700 649 596** | **700 649 608** | 20.684 | 360 | 25.5 |
| 315 | **700 649 597** | **700 649 609** | 21.719 | 360 | 28.7 |
| 355 | **700 649 598** | **700 649 610** | 22.805 | 460 | 32.3 |
| 400 | **700 649 599** | **700 649 611** | 23.945 | 460 | 36.4 |






## PROGEF Standard Outlet flange adaptor SDR11/PN10

**Model:**

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- To wafer check valves type 369

**Attention:**

- In conjunction with Outlet flange adaptors, **flange rings for socket systems** must be used.

| d (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) | D (mm) | D1 (mm) | D2 (mm) | r (mm) | e (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | 32 | 11 | 10 | **727 808 034** | 0.172 | 64 | 30 | 11 | 80 | 37 | 50 | 3 | 3.7 |
| 50 | 40 | 11 | 10 | **727 808 035** | 0.096 | 67 | 30 | 12 | 90 | 43 | 61 | 3 | 4.6 |
| 63 | 50 | 11 | 10 | **727 808 036** | 0.157 | 74 | 30 | 14 | 105 | 54 | 76 | 4 | 5.8 |
| 75 | 65 | 11 | 10 | **727 808 037** | 0.223 | 78 | 30 | 16 | 125 | 70 | 90 | 4 | 6.8 |
| 90 | 80 | 11 | 10 | **727 808 038** | 0.325 | 87 | 35 | 17 | 140 | 82 | 108 | 4 | 8.2 |
| 110 | 100 | 11 | 10 | **727 808 039** | 0.475 | 102 | 41 | 18 | 160 | 105 | 131 | 4 | 10.0 |
| 140 | 125 | 11 | 10 | **727 808 041** | 0.899 | 124 | 47 | 25 | 190 | 130 | 165 | 4 | 12.7 |
| 160 | 150 | 11 | 10 | **727 808 042** | 1.246 | 149 | 52 | 25 | 215 | 158 | 188 | 4 | 14.6 |
| 225 | 200 | 11 | 10 | **727 808 045** | 2.638 | 180 | 55 | 32 | 270 | 206 | 248 | 4 | 20.5 |
| 280 | 250 | 11 | 10 | **727 808 047** | 4.088 | 240 | 63 | 35 | 325 | 259 | 308 | 4 | 25.4 |
| 315 | 300 | 11 | 10 | **727 808 048** | 4.960 | 272 | 66 | 35 | 375 | 308 | 346 | 4 | 28.6 |

Type A



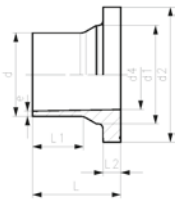
Type B



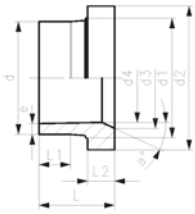
Type C



Type A



Type B



Type C



## PROGEF Standard Flange adaptor PP-H
## SDR11/PN10 Combined jointing face: flat and serrated

**Model:**

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR- Infrared welding compatible
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Up to d315, suitable for butterfly valve type 567/578 and 038/039. Above use PROGEF Standard adaptor for butterfly valves SDR11 (d355-d500)
- Gasket: profile flange gasket EPDM No. 48 44 07, FKM No. 49 44 07

* Material: PP-R, not suitable for butterfly valves

| | d (mm) | DN (mm) | SDR | PN (bar) | FM | Type | Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| | 20 | 15 | 11 | 10 | IR | A | **727 798 706** | 0.015 |
| | 25 | 20 | 11 | 10 | IR | A | **727 798 707** | 0.029 |
| | 32 | 25 | 11 | 10 | IR | A | **727 798 708** | 0.042 |
| | 40 | 32 | 11 | 10 | IR | A | **727 798 709** | 0.061 |
| | 50 | 40 | 11 | 10 | IR | A | **727 798 710** | 0.091 |
| | 63 | 50 | 11 | 10 | IR | A | **727 798 711** | 0.144 |
| | 75 | 65 | 11 | 10 | IR | B | **727 798 712** | 0.243 |
| | 90 | 80 | 11 | 10 | IR | B | **727 798 713** | 0.324 |
| | 110 | 100 | 11 | 10 | IR | B | **727 798 714** | 0.441 |
| | 125 | 100 | 11 | 10 | IR | B | **727 798 715** | 0.520 |
| | 140 | 125 | 11 | 10 | IR | B | **727 798 716** | 0.800 |
| * | 160 | 150 | 11 | 10 | IR | B | **727 798 117** | 1.060 |
| | 180 | 150 | 11 | 10 | IR | B | **727 798 318** | 1.026 |
| | 200 | 200 | 11 | 10 | IR | C | **727 798 319** | 1.652 |
| * | 225 | 200 | 11 | 10 | IR | C | **727 798 120** | 2.100 |
| | 250 | 250 | 11 | 10 | IR | C | **727 798 521** | 2.630 |
| | 280 | 250 | 11 | 10 | IR | C | **727 798 322** | 2.521 |
| | 315 | 300 | 11 | 10 | IR | C | **727 798 523** | 3.247 |
| * | 355 | 350 | 11 | 10 | | C | **727 798 324** | 6.600 |
| * | 400 | 400 | 11 | 10 | | C | **727 798 325** | 9.100 |
| * | 450 | 500 | 11 | 10 | | C | **727 798 326** | 17.300 |
| * | 500 | 500 | 11 | 10 | | C | **727 798 327** | 18.400 |

| | d (mm) | d1 (mm) | d2 (mm) | d3 (mm) | d4 (mm) | L (mm) | L1 (mm) | L2 (mm) | e (mm) | a° |
|---|---|---|---|---|---|---|---|---|---|---|
| | 20 | 26 | 45 | | 16 | 50 | 29 | 7 | 1.9 | |
| | 25 | 32 | 58 | | 20 | 52 | 27 | 9 | 2.3 | |
| | 32 | 40 | 68 | | 26 | 54 | 28 | 10 | 2.9 | |
| | 40 | 49 | 78 | | 32 | 56 | 25 | 11 | 3.7 | |
| | 50 | 60 | 88 | | 40 | 62 | 32 | 12 | 4.6 | |
| | 63 | 75 | 102 | | 51 | 68 | 38 | 14 | 5.8 | |
| | 75 | 89 | 122 | 66 | 61 | 80 | 43 | 16 | 6.9 | 30 |
| | 90 | 105 | 138 | 78 | 73 | 80 | 41 | 17 | 8.2 | 30 |
| | 110 | 125 | 158 | 100 | 90 | 80 | 40 | 18 | 10.0 | 30 |
| | 125 | 132 | 158 | 114 | 102 | 82 | 35 | 25 | 11.4 | 25 |
| | 140 | 155 | 188 | 127 | 114 | 89 | 39 | 25 | 12.8 | 27 |
| * | 160 | 175 | 212 | 151 | 131 | 107 | 40 | 25 | 14.6 | 30 |
| | 180 | 180 | 212 | 154 | 148 | 92 | 40 | 30 | 17.4 | 30 |
| | 200 | 232 | 268 | 203 | 174 | 100 | 35 | 32 | 19.3 | 30 |
| * | 225 | 235 | 268 | 210 | 184 | 133 | 45 | 32 | 20.5 | 30 |
| | 250 | 285 | 320 | 252 | 203 | 120 | 45 | 36 | 24.0 | |
| | 280 | 291 | 320 | 265 | 228 | 120 | 45 | 37 | 26.8 | 30 |
| | 315 | 338 | 370 | 300 | 256 | 150 | 50 | 52 | 30.2 | 22 |
| * | 355 | 373 | 430 | 342 | 284 | 162 | 70 | 40 | 33.9 | 45 |
| * | 400 | 427 | 482 | 387 | 320 | 172 | 70 | 46 | 38.2 | 45 |
| * | 450 | 514 | 585 | 400 | 360 | 225 | 105 | 60 | 43.0 | 15 |
| * | 500 | 530 | 585 | 442 | 400 | 231 | 105 | 60 | 47.8 | 15 |



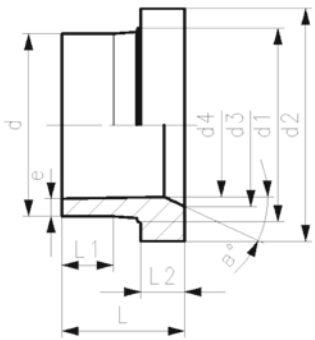
### PROGEF Standard Flange adaptor for butterfly valves SDR11/PN10

**Model:**

- Material: PP-R
- Conventional butt-welding according to DVS 2207
- Suitable for butterfly valve type 567/578 and 038/039

| d (mm) | DN (mm) | SDR | PN (bar) | Type | Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 355 | 350 | 11 | 10 | B | **727 798 924** | 7.300 |
| 400 | 400 | 11 | 10 | B | **727 798 925** | 10.200 |
| 450 | 500 | 11 | 10 | B | **727 798 926** | 17.900 |
| 500 | 500 | 11 | 10 | B | **727 798 927** | 20.100 |

Type B



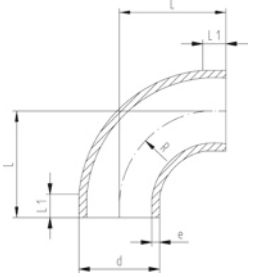

| d1 (mm) | d2 (mm) | d3 (mm) | d4 (mm) | L (mm) | L1 (mm) | L2 (mm) | e (mm) | a° |
|---|---|---|---|---|---|---|---|---|
| 373 | 430 | 350 | 284 | 187 | 70 | 65 | 33.9 | 25 |
| 427 | 482 | 400 | 320 | 196 | 70 | 70 | 38.2 | 25 |
| 467 | 533 | 450 | 360 | 272 | 105 | 107 | 43.0 | 23 |
| 530 | 585 | 498 | 400 | 261 | 105 | 90 | 47.8 | 25 |

# Butt fusion fittings SRD 17.6









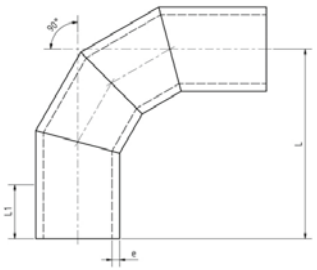

### PROGEF Standard Bend 90° SDR17.6/PN6

**Model:**

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible
- New code numbers in dimensions d125-d315 not available yet, please refer to the existing code numbers 727018415-727018423.

* Material:PP-R

| | d (mm) | SDR | PN (bar) | FM | Type | Code | Weight (kg) | L (mm) | L1 (mm) | R (mm) | e (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50 | 17.6 | 6 | IR | 1 | **727 018 635** | 0.050 | 58 | 21 | 37.00 | 3.0 |
| | 63 | 17.6 | 6 | IR | 1 | **727 018 636** | 0.081 | 66 | 21 | 45.00 | 3.8 |
| | 75 | 17.6 | 6 | IR | 2 | **727 018 412** | 0.128 | 75 | 21 | 71.25 | 4.8 |
| | 90 | 17.6 | 6 | IR | 2 | **727 018 413** | 0.222 | 90 | 22 | 85.50 | 5.7 |
| | 110 | 17.6 | 6 | IR | 2 | **727 018 414** | 0.396 | 110 | 25 | 104.50 | 6.9 |
| | 125 | 17.6 | 6 | IR | 2 | **727 018 215** | 0.625 | 145 | 34 | 126.00 | 7.1 |
| | 140 | 17.6 | 6 | IR | 2 | **727 018 216** | 0.880 | 162 | 38 | 142.00 | 8.0 |
| | 160 | 17.6 | 6 | IR | 2 | **727 018 217** | 1.273 | 183 | 40 | 162.00 | 9.1 |
| | 180 | 17.6 | 6 | IR | 2 | **727 018 218** | 1.720 | 200 | 38 | 182.00 | 10.2 |
| | 200 | 17.6 | 6 | IR | 2 | **727 018 219** | 2.329 | 220 | 40 | 202.00 | 11.4 |
| | 225 | 17.6 | 6 | IR | 2 | **727 018 220** | 3.270 | 245 | 41 | 227.00 | 12.8 |
| | 250 | 17.6 | 6 | IR | 2 | **727 018 221** | 4.629 | 280 | 51 | 252.00 | 14.2 |
| | 280 | 17.6 | 6 | IR | 2 | **727 018 222** | 6.410 | 310 | 52 | 282.00 | 15.9 |
| | 315 | 17.6 | 6 | IR | 2 | **727 018 223** | 9.173 | 350 | 61 | 318.00 | 17.9 |
| * | 355 | 17.6 | 6 | | 2 | **727 018 424** | 11.640 | 345 | 70 | 330.00 | 21.2 |
| * | 400 | 17.6 | 6 | | 2 | **727 018 425** | 15.200 | 365 | 70 | 350.00 | 23.9 |
| * | 450 | 17.6 | 6 | | 2 | **727 018 426** | 22.240 | 425 | 70 | 400.00 | 26.9 |
| * | 500 | 17.6 | 6 | | 2 | **727 018 427** | 31.020 | 470 | 90 | 445.00 | 29.8 |

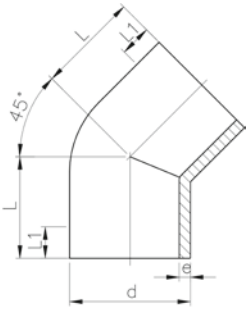


## PROGEF Elbow 90°, PP-H S8/SDR17.6

- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

| d (mm) | Code | L (mm) | L1 (mm) | e (mm) |
|---|---|---|---|---|
| 110 | **700 649 396** | 315 | 150 | 6.3 |
| 125 | **700 649 397** | 338 | 150 | 7.1 |
| 140 | **700 649 398** | 360 | 150 | 8.0 |
| 160 | **700 649 399** | 390 | 150 | 9.1 |
| 180 | **700 649 400** | 420 | 150 | 10.2 |
| 200 | **700 649 401** | 450 | 150 | 11.4 |
| 225 | **700 649 402** | 488 | 150 | 12.8 |
| 250 | **700 649 403** | 625 | 250 | 14.2 |
| 280 | **700 649 404** | 670 | 250 | 15.9 |
| 315 | **700 649 405** | 773 | 300 | 17.9 |
| 355 | **700 649 406** | 833 | 300 | 20.1 |
| 400 | **700 649 407** | 900 | 300 | 22.7 |
| 450 | | 975 | 300 | 25.5 |
| 500 | | 1100 | 350 | 28.3 |
| 560 | | 1190 | 350 | 31.7 |
| 630 | | 1295 | 350 | 35.7 |





## PROGEF Standard Elbow 45° SDR17.6/PN6

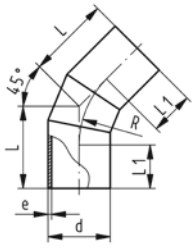
**Model:**

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

1) Material:PP-R
*Machined from S5/SDR11

| | d (mm) | SDR | PN (bar) | FM | Code | Weight (kg) | L (mm) | L1 (mm) | e (mm) |
|---|---|---|---|---|---|---|---|---|---|
| * | 50 | 17.6 | 6 | IR | **727 158 535** | 0.042 | 42 | 26 | 2.9 |
| * | 63 | 17.6 | 6 | IR | **727 158 536** | 0.081 | 47 | 29 | 3.6 |
| | 75 | 17.6 | 6 | IR | **727 158 412** | 0.099 | 49 | 29 | 4.3 |
| | 90 | 17.6 | 6 | IR | **727 158 413** | 0.165 | 57 | 34 | 5.1 |
| | 110 | 17.6 | 6 | IR | **727 158 414** | 0.286 | 70 | 43 | 6.3 |
| * | 125 | 17.6 | 6 | IR | **727 158 540** | 0.570 | 79 | 48 | 7.1 |
| * | 140 | 17.6 | 6 | IR | **727 158 541** | 0.721 | 88 | 55 | 8.0 |
| * | 160 | 17.6 | 6 | IR | **727 158 542** | 1.107 | 100 | 60 | 9.1 |
| * | 200 | 17.6 | 6 | IR | **727 158 544** | 2.225 | 124 | 75 | 11.4 |
| * | 225 | 17.6 | 6 | IR | **727 158 545** | 3.194 | 140 | 85 | 12.8 |
| 1 | 250 | 17.6 | 6 | IR | **727 158 546** | 4.970 | 225 | 133 | 14.2 |
| 1 | 280 | 17.6 | 6 | IR | **727 158 547** | 7.130 | 235 | 143 | 15.9 |
| 1 | 315 | 17.6 | 6 | IR | **727 158 548** | 9.600 | 255 | 154 | 17.9 |



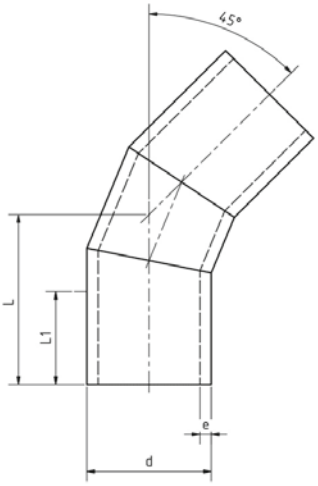



## PROGEF Standard Bend 45°
## SDR17.6/PN6

**Model:**

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- Production process: segment welded
- Segment-welded fittings have a pressure reduction factor of 0.8

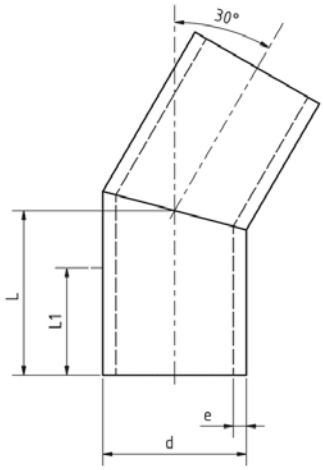
| d (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | R (mm) | e (mm) |
|---|---|---|---|---|---|---|---|---|
| 355 | 17.6 | 4 | **727 158 549** | 21.000 | 520 | 300 | 533 | 20.1 |
| 400 | 17.6 | 4 | **727 158 550** | 28.100 | 548 | 300 | 600 | 22.7 |
| 450 | 17.6 | 4 | **727 158 551** | 37.400 | 580 | 300 | 675 | 25.5 |
| 500 | 17.6 | 4 | **727 158 552** | 52.600 | 665 | 350 | 750 | 28.4 |




## PROGEF Elbow 45°, PP-H S8/SDR17.6

- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

| d (mm) | Code | L (mm) | L1 (mm) | e (mm) |
|---|---|---|---|---|
| 110 | **700 649 432** | 218 | 150 | 6.3 |
| 125 | **700 649 433** | 228 | 150 | 7.1 |
| 140 | **700 649 434** | 237 | 150 | 8.0 |
| 160 | **700 649 435** | 249 | 150 | 9.1 |
| 180 | **700 649 436** | 262 | 150 | 10.2 |
| 200 | **700 649 437** | 274 | 150 | 11.4 |
| 225 | **700 649 438** | 290 | 150 | 12.8 |
| 250 | **700 649 439** | 412 | 250 | 14.2 |
| 280 | **700 649 440** | 424 | 250 | 15.9 |
| 315 | **700 649 441** | 498 | 300 | 17.9 |
| 355 | **700 649 442** | 520 | 300 | 20.1 |
| 400 | **700 649 443** | 548 | 300 | 22.7 |
| 450 | | 580 | 300 | 25.5 |
| 500 | | 665 | 350 | 28.3 |
| 560 | | 698 | 350 | 31.7 |
| 630 | | 741 | 350 | 35.7 |

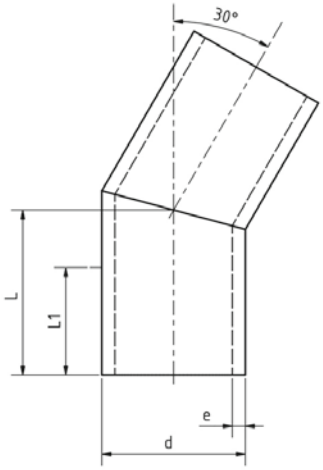



## PROGEF Elbow 30°, PP-H S8/SDR17.6

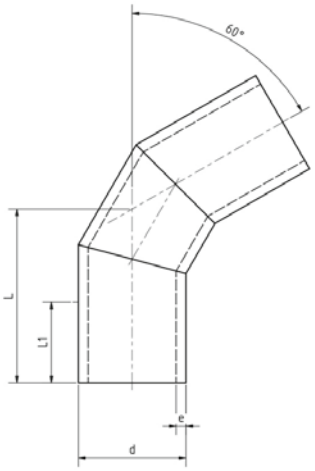
- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

| d (mm) | Code | L (mm) | L1 (mm) | e (mm) |
|---|---|---|---|---|
| 110 | **700 649 457** | 194 | 150 | 6.3 |
| 125 | **700 649 458** | 200 | 150 | 7.1 |
| 140 | **700 649 459** | 206 | 150 | 8.0 |
| 160 | **700 649 460** | 214 | 150 | 9.1 |
| 180 | **700 649 461** | 222 | 150 | 10.2 |
| 200 | **700 649 462** | 230 | 150 | 11.4 |
| 225 | **700 649 463** | 241 | 150 | 12.8 |
| 250 | **700 649 464** | 350 | 250 | 14.2 |
| 280 | **700 649 465** | 362 | 250 | 15.9 |
| 315 | **700 649 466** | 428 | 300 | 17.9 |
| 355 | **700 649 467** | 443 | 300 | 20.1 |

table continued on the next page



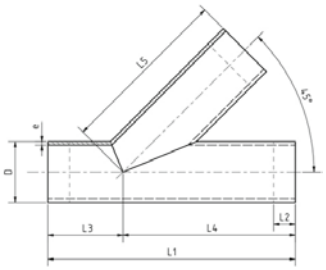

| d (mm) | Code | L (mm) | L1 (mm) | e (mm) |
|---|---|---|---|---|
| 400 | **700 649 468** | 461 | 300 | 22.7 |
| 450 | | 481 | 300 | 25.5 |
| 500 | | 551 | 350 | 28.3 |
| 560 | | 575 | 350 | 31.7 |
| 630 | | 603 | 350 | 35.7 |




## PROGEF Elbow 60°, PP-H S8/SDR17.6

- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

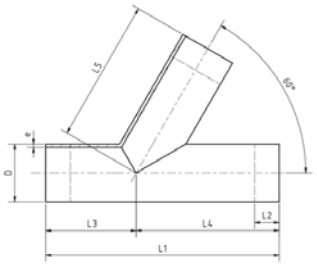
| d (mm) | Code | L (mm) | L1 (mm) | e (mm) |
|---|---|---|---|---|
| 110 | **700 649 408** | 245 | 150 | 6.3 |
| 125 | **700 649 409** | 258 | 150 | 7.1 |
| 140 | **700 649 410** | 271 | 150 | 8.0 |
| 160 | **700 649 411** | 288 | 150 | 9.1 |
| 180 | **700 649 412** | 305 | 150 | 10.2 |
| 200 | **700 649 413** | 323 | 150 | 11.4 |
| 225 | **700 649 414** | 345 | 150 | 12.8 |
| 250 | **700 649 415** | 466 | 250 | 14.2 |
| 280 | **700 649 416** | 492 | 250 | 15.9 |
| 315 | **700 649 417** | 576 | 300 | 17.9 |
| 355 | **700 649 418** | 608 | 300 | 20.1 |
| 400 | **700 649 419** | 646 | 300 | 22.7 |
| 450 | | 689 | 300 | 25.5 |
| 500 | | 783 | 350 | 28.3 |
| 560 | | 835 | 350 | 31.7 |
| 630 | | 896 | 350 | 35.7 |




## PROGEF Branch 45°, PP-H S8/SDR17,6

- For butt- and electro fusion
- Reduction factor = 0,5

| d (mm) | Code | Weight (kg) | L1 (mm) | L2 (mm) | e (mm) |
|---|---|---|---|---|---|
| 110 | **700 649 648** | 2.190 | 150 | 520 | 6.3 |
| 125 | **700 649 649** | 5.985 | 150 | 520 | 7.1 |
| 140 | **700 649 650** | 3.220 | 150 | 570 | 8.0 |
| 160 | **700 649 651** | 4.280 | 150 | 640 | 9.1 |
| 180 | **700 649 652** | 6.928 | 150 | 700 | 10.2 |
| 200 | **700 649 653** | 7.275 | 150 | 800 | 11.4 |
| 225 | **700 649 654** | 7.639 | 150 | 800 | 12.8 |
| 250 | **700 649 655** | 8.020 | 250 | 1000 | 14.2 |
| 280 | **700 649 656** | 8.421 | 250 | 1000 | 15.9 |
| 315 | **700 649 657** | 8.843 | 300 | 1300 | 17.9 |
| 355 | **700 649 658** | 9.285 | 300 | 1500 | 20.1 |
| 400 | **700 649 659** | 9.749 | 300 | 1500 | 22.7 |
| 450 | | | 300 | 1500 | 25.5 |

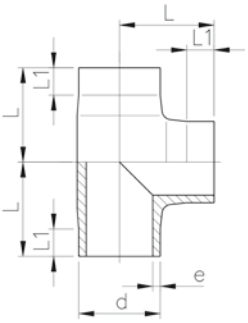



## PROGEF Branch 60° PP-H S8/SDR17.6

- For butt- and electro fusion
- Reduction factor = 0,5

| d (mm) | Code | L1 (mm) | L2 (mm) | e (mm) |
|---|---|---|---|---|
| 110 | **700 649 672** | 150 | 520 | 6.3 |
| 125 | **700 649 673** | 150 | 520 | 7.1 |
| 140 | **700 649 674** | 150 | 570 | 8.0 |
| 160 | **700 649 675** | 150 | 640 | 9.1 |
| 180 | **700 649 676** | 150 | 700 | 10.2 |
| 200 | **700 649 677** | 150 | 800 | 11.4 |
| 225 | **700 649 678** | 150 | 800 | 12.8 |
| 250 | **700 649 679** | 250 | 1000 | 14.2 |
| 280 | **700 649 680** | 250 | 1000 | 15.9 |
| 315 | **700 649 681** | 300 | 1300 | 17.9 |
| 355 | **700 649 682** | 300 | 1500 | 20.1 |
| 400 | **700 649 683** | 300 | 1500 | 22.7 |
| 450 | | 300 | 1500 | 25.5 |






## PROGEF Standard Tee 90° equal SDR17.6/PN6

**Model:**

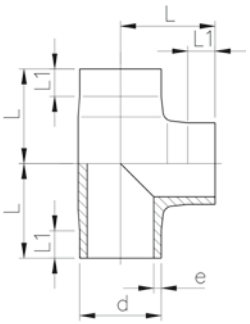
- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

**Note:**

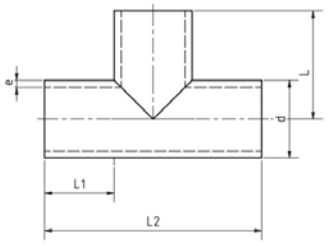
[1]Material: PP-R

| | d (mm) | SDR | PN (bar) | FM | Code | Weight (kg) | L (mm) | L1 (mm) | e (mm) |
|---|---|---|---|---|---|---|---|---|---|
| | 50 | 17.6 | 6 | IR | **727 208 410** | 0.084 | 92 | 57 | 2.9 |
| | 63 | 17.6 | 6 | IR | **727 208 411** | 0.172 | 107 | 64 | 3.6 |
| | 75 | 17.6 | 6 | IR | **727 208 412** | 0.212 | 75 | 20 | 4.3 |
| | 90 | 17.6 | 6 | IR | **727 208 413** | 0.396 | 90 | 20 | 5.1 |
| | 110 | 17.6 | 6 | IR | **727 208 414** | 0.705 | 110 | 20 | 6.3 |
| | 125 | 17.6 | 6 | IR | **727 208 415** | 1.154 | 125 | 50 | 7.1 |
| | 140 | 17.6 | 6 | IR | **727 208 416** | 1.765 | 160 | 63 | 8.0 |
| | 160 | 17.6 | 6 | IR | **727 208 417** | 2.335 | 163 | 60 | 9.1 |
| | 180 | 17.6 | 6 | IR | **727 208 418** | 4.000 | 217 | 97 | 10.2 |

table continued on the next page




| | d (mm) | SDR | PN (bar) | FM | Code | Weight (kg) | L (mm) | L1 (mm) | e (mm) |
|---|---|---|---|---|---|---|---|---|---|
| | 200 | 17.6 | 6 | IR | **727 208 419** | 5.060 | 220 | 94 | 11.4 |
| | 225 | 17.6 | 6 | IR | **727 208 420** | 6.870 | 227 | 75 | 12.8 |
| | 250 | 17.6 | 6 | IR | **727 208 421** | 7.410 | 225 | 67 | 14.2 |
| | 280 | 17.6 | 6 | IR | **727 208 422** | 10.680 | 266 | 88 | 15.9 |
| | 315 | 17.6 | 6 | IR | **727 208 423** | 14.105 | 283 | 86 | 17.9 |
| 1 | 355 | 17.6 | 6 | | **727 208 424** | 20.800 | 345 | 105 | 20.1 |
| 1 | 400 | 17.6 | 6 | | **727 208 425** | 27.200 | 365 | 105 | 22.7 |
| 1 | 450 | 17.6 | 6 | | **727 208 426** | 47.300 | 425 | 135 | 26.7 |
| 1 | 500 | 17.6 | 6 | | **727 208 427** | 54.800 | 470 | 155 | 29.7 |

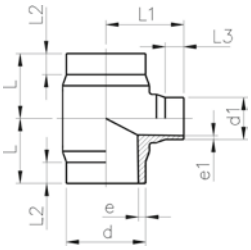



## Tees 90°, equal, PP-H S8/SDR17.6

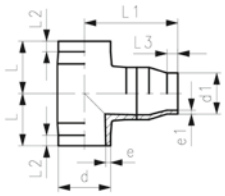
- For butt- and electro fusion
- Reduction factor = 0,6
- big dimensions on request

| d (mm) | Code | L (mm) | L1 (mm) | L2 (mm) | e (mm) |
|---|---|---|---|---|---|
| 110 | | 205 | 150 | 410 | 6.3 |
| 125 | | 215 | 150 | 430 | 7.1 |
| 140 | | 220 | 150 | 440 | 8.0 |
| 160 | | 230 | 150 | 460 | 9.1 |
| 180 | | 240 | 150 | 480 | 10.2 |
| 200 | | 250 | 150 | 500 | 11.4 |
| 225 | **700 649 487** | 265 | 150 | 530 | 12.8 |
| 250 | **700 649 488** | 375 | 250 | 750 | 14.2 |
| 280 | **700 649 489** | 390 | 250 | 780 | 15.9 |
| 315 | **700 649 490** | 460 | 300 | 920 | 17.9 |
| 355 | **700 649 491** | 480 | 300 | 960 | 20.1 |
| 400 | **700 649 492** | 500 | 300 | 1000 | 22.7 |
| 450 | | 525 | 300 | 1050 | 25.5 |
| 500 | | 600 | 350 | 1200 | 28.3 |
| 560 | | 630 | 350 | 1260 | 31.7 |
| 630 | | 665 | 350 | 1330 | 35.7 |






1



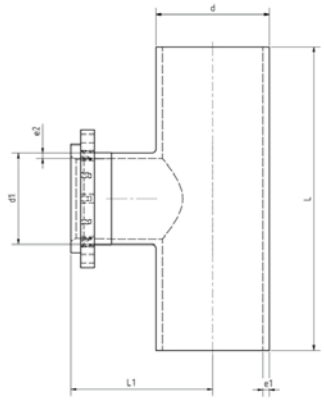

## PROGEF Standard Tee 90° reduced SDR17.6/PN6

**Model:**

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

[1]with IR welded reducer
* Branch SDR11

| | d (mm) | d1 (mm) | SDR | PN (bar) | FM | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | e (mm) | e1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * | 63 | 32 | 17.6 | 6 | IR | **727 208 301** | 0.120 | 65 | 70 | 25 | 25 | 3.6 | 2.9 |
| | 63 | 50 | 17.6 | 6 | IR | **727 208 302** | 0.124 | 65 | 70 | 25 | 25 | 3.6 | 2.9 |
| * | 75 | 32 | 17.6 | 6 | IR | **727 208 303** | 0.178 | 70 | 75 | 25 | 25 | 4.3 | 2.9 |
| | 75 | 50 | 17.6 | 6 | IR | **727 208 304** | 0.182 | 70 | 75 | 25 | 25 | 4.3 | 2.9 |
| | 75 | 63 | 17.6 | 6 | IR | **727 208 305** | 0.190 | 70 | 75 | 25 | 25 | 4.3 | 3.6 |
| | 90 | 50 | 17.6 | 6 | IR | **727 208 307** | 0.305 | 80 | 85 | 25 | 25 | 5.1 | 2.9 |
| | 90 | 63 | 17.6 | 6 | IR | **727 208 308** | 0.315 | 80 | 85 | 25 | 25 | 5.1 | 3.6 |
| | 90 | 75 | 17.6 | 6 | IR | **727 208 309** | 0.320 | 80 | 85 | 25 | 25 | 5.1 | 4.3 |
| * | 110 | 32 | 17.6 | 6 | IR | **727 208 310** | 0.489 | 90 | 95 | 30 | 25 | 6.3 | 2.9 |
| | 110 | 50 | 17.6 | 6 | IR | **727 208 311** | 0.490 | 90 | 95 | 30 | 25 | 6.3 | 2.9 |
| | 110 | 63 | 17.6 | 6 | IR | **727 208 312** | 0.491 | 90 | 95 | 30 | 25 | 6.3 | 3.6 |
| | 110 | 75 | 17.6 | 6 | IR | **727 208 313** | 0.500 | 90 | 95 | 30 | 25 | 6.3 | 4.3 |
| | 110 | 90 | 17.6 | 6 | IR | **727 208 314** | 0.514 | 90 | 95 | 30 | 25 | 6.3 | 5.1 |
| 1 | 125 | 63 | 17.6 | 6 | IR | **727 208 015** | 1.300 | 125 | 212 | 50 | 20 | 7.1 | 3.6 |
| 1 | 125 | 90 | 17.6 | 6 | IR | **727 208 016** | 1.400 | 125 | 229 | 50 | 41 | 7.1 | 5.1 |
| 1 | 125 | 110 | 17.6 | 6 | IR | **727 208 017** | 1.400 | 125 | 218 | 50 | 42 | 7.1 | 6.3 |
| 1 | 140 | 75 | 17.6 | 6 | IR | **727 208 018** | 2.000 | 160 | 255 | 63 | 41 | 8.0 | 4.3 |
| 1 | 140 | 90 | 17.6 | 6 | IR | **727 208 019** | 2.100 | 160 | 251 | 63 | 42 | 8.0 | 5.1 |
| 1 | 140 | 110 | 17.6 | 6 | IR | **727 208 020** | 2.100 | 160 | 240 | 63 | 43 | 8.0 | 6.3 |
| | 160 | 63 | 17.6 | 6 | IR | **727 208 321** | 1.535 | 142 | 135 | 50 | 30 | 9.1 | 3.6 |
| | 160 | 75 | 17.6 | 6 | IR | **727 208 322** | 1.550 | 142 | 135 | 50 | 30 | 9.1 | 4.3 |
| | 160 | 90 | 17.6 | 6 | IR | **727 208 323** | 1.567 | 142 | 135 | 50 | 30 | 9.1 | 5.1 |
| | 160 | 110 | 17.6 | 6 | IR | **727 208 324** | 1.577 | 142 | 135 | 50 | 30 | 9.1 | 6.3 |
| 1 | 160 | 125 | 17.6 | 6 | IR | **727 208 025** | 2.800 | 163 | 275 | 60 | 32 | 9.1 | 7.1 |
| 1 | 200 | 160 | 17.6 | 6 | IR | **727 208 035** | 5.900 | 220 | 325 | 94 | 40 | 11.4 | 9.1 |
| 1 | 200 | 180 | 17.6 | 6 | IR | **727 208 036** | 6.000 | 220 | 325 | 94 | 54 | 11.4 | 10.2 |
| | 225 | 90 | 17.6 | 6 | IR | **727 208 338** | 3.350 | 155 | 165 | 40 | 30 | 12.8 | 5.1 |
| | 225 | 110 | 17.6 | 6 | IR | **727 208 339** | 3.330 | 155 | 165 | 40 | 30 | 12.8 | 6.3 |
| | 225 | 160 | 17.6 | 6 | IR | **727 208 341** | 3.427 | 155 | 165 | 40 | 30 | 12.8 | 9.1 |
| 1 | 250 | 160 | 17.6 | 6 | IR | **727 208 043** | 8.900 | 225 | 389 | 67 | 52 | 14.2 | 9.1 |



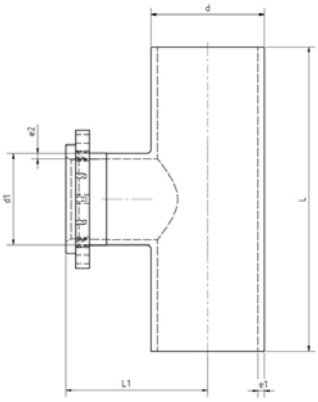

## Revision Tees 90°, PP-H SDR17.6

**Model:**

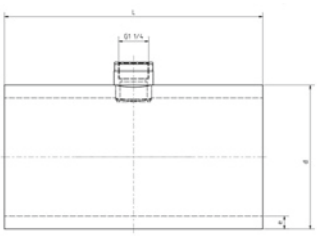
- Flued and butt fusion according to DVS2207
- Backing flanges to ISO 7005, EN 1092, DIN 2501, bolt circle PN10
- Reduction factor = 0,6
- big dimensions on request

| d (mm) | d1 (mm) | PN (bar) | Code | L (mm) | L1 (mm) | e1 (mm) | e2 (mm) |
|---|---|---|---|---|---|---|---|
| 110 | 110 | 6 | **700 647 267** | 500 | 236 | 6,3 | 6,3 |
| 125 | 125 | 6 | **700 647 268** | 500 | 248 | 7,1 | 7,1 |
| 140 | 140 | 6 | **700 647 269** | 500 | 265 | 8,0 | 8,0 |
| 160 | 110 | 6 | **700 647 270** | 500 | 278 | 9,1 | 6,3 |
| 180 | 110 | 6 | **700 665 644** | 500 | 350 | 10,2 | 6,3 |
| 200 | 140 | 6 | **700 665 645** | 500 | 350 | 11,4 | 8,0 |
| 225 | 140 | 6 | **700 665 646** | 560 | 400 | 12,8 | 8,0 |
| 250 | 160 | 6 | **700 665 647** | 750 | 450 | 14,2 | 9,1 |
| 280 | 225 | 6 | **700 665 648** | 750 | 350 | 15,9 | 12,8 |
| 315 | 225 | 6 | **700 665 649** | 850 | 400 | 17,9 | 12,8 |
| 355 | 225 | 6 | **700 665 650** | 950 | 450 | 20,1 | 12,8 |

table continued on the next page



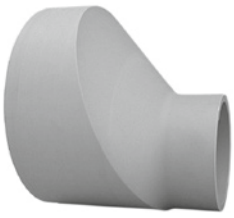

| d (mm) | d1 (mm) | PN (bar) | Code | L (mm) | L1 (mm) | e1 (mm) | e2 (mm) |
|---|---|---|---|---|---|---|---|
| 400 | 225 | 6 | **700 665 651** | 1000 | 450 | 22,7 | 12,8 |
| 450 | 315 | 6 | **700 665 652** | 1100 | 500 | 25,5 | 17,9 |
| 500 | 315 | 6 | **700 665 653** | 1200 | 500 | 28,4 | 17,9 |
| 560 | 315 | 6 | **700 665 654** | 1300 | 550 | 31,7 | 17,9 |
| 630 | 315 | 6 | **700 665 655** | 1450 | 550 | 35,7 | 17,9 |

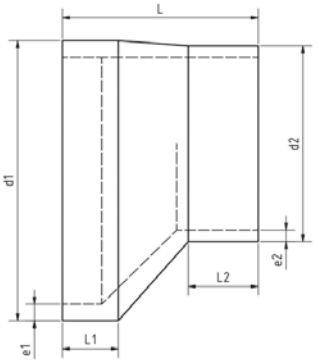



## Saddle-Tee, PP-H S8/SDR17.6 Outlet with female thread Rp, welded

- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

| d (mm) | Thread 1" Code | Thread 11/4" Code | Weight (kg) | L (mm) | e (mm) |
|---|---|---|---|---|---|
| 110 | **700 649 612** | **700 649 624** | 14.000 | 260 | 6.3 |
| 125 | **700 649 613** | **700 649 625** | 14.700 | 260 | 7.1 |
| 140 | **700 649 614** | **700 649 626** | 15.435 | 260 | 8.0 |
| 160 | **700 649 615** | **700 649 627** | 16.207 | 260 | 9.1 |
| 180 | **700 649 616** | **700 649 628** | 17.017 | 360 | 10.2 |
| 200 | **700 649 617** | **700 649 629** | 17.868 | 360 | 11.4 |
| 225 | **700 649 618** | **700 649 630** | 0.500 | 360 | 12.8 |
| 250 | **700 649 619** | **700 649 631** | 19.699 | 360 | 14.2 |
| 280 | **700 649 620** | **700 649 632** | 20.684 | 360 | 15.9 |
| 315 | **700 649 621** | **700 649 633** | 21.719 | 360 | 17.9 |
| 355 | **700 649 622** | **700 649 634** | 22.805 | 460 | 20.1 |
| 400 | **700 649 623** | **700 649 635** | 23.945 | 460 | 22.7 |





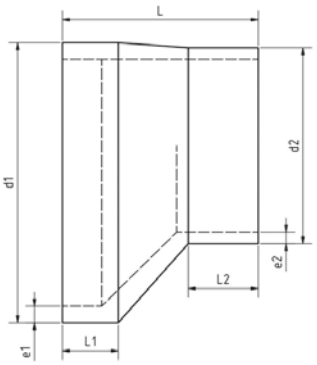

## PROGEF Reducing Bushes excentric, PP-H SDR17.6

**Model:**

- Machined
- Conventional butt-welding according to DVS 2207

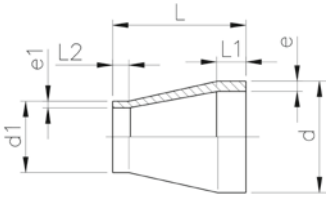
| d1 (mm) | d2 (mm) | PN (bar) | Code | Weight (kg) | e1 (mm) | L1 (mm) | L (mm) | L2 (mm) | e2 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 6 | **700 647 750** | 0.020 | 3,6 | 35 | 120 | 35 | 2,9 |
| 75 | 50 | 6 | **700 647 751** | 0.041 | 4,3 | 40 | 120 | 35 | 2,9 |
| 75 | 63 | 6 | **700 647 752** | 0.048 | 4,3 | 40 | 120 | 35 | 3,6 |
| 90 | 63 | 6 | **700 647 753** | 0.079 | 5,1 | 50 | 140 | 50 | 3,6 |
| 90 | 75 | 6 | **700 647 754** | 0.090 | 5,1 | 50 | 140 | 50 | 4,3 |
| 110 | 75 | 6 | **700 647 755** | 1.000 | 6,3 | 50 | 140 | 50 | 4,3 |
| 110 | 90 | 6 | **700 647 756** | 0.158 | 6,3 | 50 | 140 | 50 | 5,1 |
| 125 | 90 | 6 | **700 647 757** | 0.190 | 7,1 | 50 | 140 | 50 | 5,1 |
| 125 | 110 | 6 | **700 647 758** | 0.215 | 7,1 | 50 | 140 | 50 | 6,3 |
| 140 | 90 | 6 | **700 647 759** | 0.308 | 8,0 | 50 | 140 | 50 | 5,1 |
| 140 | 110 | 6 | **700 647 760** | 0.338 | 8,0 | 50 | 140 | 50 | 6,3 |
| 160 | 90 | 6 | **700 647 761** | 1.000 | 9,5 | 50 | 140 | 54 | 5,4 |
| 160 | 110 | 6 | **700 647 762** | 0.454 | 9,5 | 40 | 120 | 45 | 6,6 |
| 160 | 125 | 6 | **700 647 763** | 0.071 | 9,5 | 40 | 110 | 44 | 7,4 |
| 160 | 140 | 6 | **700 647 764** | 0.482 | 9,5 | 40 | 90 | 33 | 8,3 |
| 180 | 125 | 6 | **700 647 765** | 0.596 | 10,7 | 40 | 130 | 52 | 7,4 |
| 180 | 140 | 6 | **700 647 766** | 0.632 | 10,7 | 40 | 110 | 41 | 8,3 |
| 180 | 160 | 6 | **700 647 767** | 0.677 | 10,7 | 40 | 90 | 33 | 9,5 |
| 200 | 140 | 6 | **700 647 768** | 0.805 | 11,9 | 40 | 140 | 50 | 8,3 |

table continued on the next page




| d1 (mm) | d2 (mm) | PN (bar) | Code | Weight (kg) | e1 (mm) | L1 (mm) | L (mm) | L2 (mm) | e2 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 200 | 160 | 6 | **700 647 769** | 0.822 | 11,9 | 40 | 120 | 41 | 9,5 |
| 200 | 180 | 6 | **700 647 770** | 0.894 | 11,9 | 40 | 100 | 43 | 10,7 |
| 225 | 160 | 6 | **700 647 771** | 1.083 | 13,4 | 40 | 140 | 57 | 9,5 |
| 225 | 180 | 6 | **700 647 772** | 1.337 | 13,4 | 40 | 120 | 48 | 10,7 |
| 225 | 200 | 6 | **700 647 773** | 1.884 | 13,4 | 40 | 100 | 40 | 11,9 |
| 250 | 180 | 6 | **700 647 774** | 2.100 | 14,8 | 40 | 150 | 54 | 10,7 |
| 250 | 200 | 6 | **700 647 775** | 2.189 | 14,8 | 40 | 130 | 55 | 11,9 |
| 250 | 225 | 6 | **700 647 776** | 2.370 | 14,8 | 40 | 110 | 40 | 13,4 |
| 280 | 200 | 6 | **700 647 777** | 2.820 | 16,6 | 40 | 160 | 58 | 11,9 |
| 280 | 225 | 6 | **700 647 778** | 2.854 | 16,6 | 40 | 130 | 52 | 13,4 |
| 280 | 250 | 6 | **700 647 779** | 2.980 | 16,6 | 40 | 110 | 47 | 14,8 |
| 315 | 225 | 6 | **700 647 780** | 3.010 | 18,7 | 40 | 160 | 62 | 13,4 |
| 315 | 250 | 6 | **700 647 781** | 3.158 | 18,7 | 40 | 140 | 57 | 14,8 |
| 315 | 280 | 6 | **700 647 782** | 3.500 | 18,7 | 40 | 120 | 54 | 16,6 |
| 355 | 250 | 6 | **700 647 783** | 1.000 | 21,1 | 40 | 180 | 74 | 14,8 |
| 355 | 280 | 6 | **700 647 784** | 3.800 | 21,1 | 40 | 150 | 61 | 16,6 |
| 355 | 315 | 6 | **700 647 785** | 4.200 | 21,1 | 40 | 120 | 51 | 18,7 |
| 400 | 280 | 6 | **700 647 786** | 5.580 | 23,7 | 40 | 200 | 85 | 16,6 |
| 400 | 315 | 6 | **700 647 787** | 5.800 | 23,7 | 40 | 170 | 75 | 18,7 |
| 400 | 355 | 6 | **700 647 788** | 6.310 | 23,7 | 40 | 130 | 58 | 21,1 |
| 450 | 315 | 6 | **700 647 789** | 6.540 | 26,7 | 40 | 210 | 86 | 18,7 |
| 450 | 355 | 6 | **700 647 790** | 7.210 | 26,7 | 40 | 180 | 79 | 21,1 |
| 450 | 400 | 6 | **700 647 791** | 7.900 | 26,7 | 40 | 140 | 65 | 23,7 |
| 500 | 315 | 6 | **700 647 792** | 8.450 | 29,7 | 40 | 260 | 107 | 18,7 |
| 500 | 355 | 6 | **700 647 793** | 9.124 | 29,7 | 40 | 220 | 91 | 21,1 |
| 500 | 400 | 6 | **700 647 794** | 9.450 | 29,7 | 40 | 190 | 86 | 23,7 |
| 500 | 450 | 6 | **700 647 795** | 11.850 | 29,7 | 40 | 140 | 65 | 26,7 |
| 560 | 450 | 6 | **700 647 796** | 12.600 | 33,2 | 40 | 200 | 91 | 26,7 |
| 560 | 500 | 6 | **700 647 797** | 13.650 | 33,2 | 40 | 150 | 70 | 29,7 |
| 630 | 500 | 6 | **700 647 798** | 14.800 | 37,4 | 40 | 220 | 99 | 29,7 |
| 630 | 560 | 6 | **700 647 799** | 15.240 | 37,4 | 40 | 170 | 84 | 33,2 |






## PROGEF Standard Reducer SDR17.6/PN6

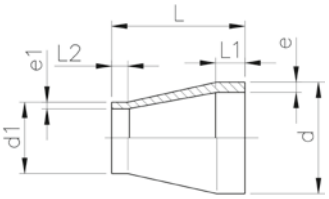
**Model:**

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

[1] Material: PP-R

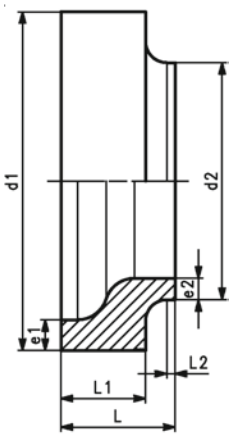
| | d (mm) | d1 (mm) | SDR | PN (bar) | FM | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) | e (mm) | e1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50 | 40 | 17.6 | 6 | IR | **727 908 713** | 0.018 | 134 | 56 | 52 | 2.9 | 2,3 |
| | 63 | 40 | 17.6 | 6 | IR | **727 908 901** | 0.020 | 65 | 16 | 12 | 3.6 | 2,3 |
| | 63 | 50 | 17.6 | 6 | IR | **727 908 718** | 0.055 | 87 | 29 | 27 | 3.6 | 2,9 |
| | 75 | 40 | 17.6 | 6 | IR | **727 908 904** | 0.041 | 65 | 20 | 20 | 4.3 | 2,3 |
| | 75 | 50 | 17.6 | 6 | IR | **727 908 465** | 0.047 | 65 | 20 | 20 | 4.8 | 3,2 |
| | 75 | 63 | 17.6 | 6 | IR | **727 908 464** | 0.053 | 65 | 20 | 20 | 4.3 | 3,6 |
| | 90 | 63 | 17.6 | 6 | IR | **727 908 471** | 0.079 | 75 | 22 | 19 | 5.1 | 3,6 |
| | 90 | 75 | 17.6 | 6 | IR | **727 908 470** | 0.090 | 75 | 21 | 19 | 5.1 | 4,3 |
| | 110 | 63 | 17.6 | 6 | IR | **727 908 472** | 0.149 | 90 | 28 | 28 | 6.9 | 4.0 |
| | 110 | 75 | 17.6 | 6 | IR | **727 908 477** | 0.149 | 90 | 28 | 18 | 6.3 | 4,3 |
| | 110 | 90 | 17.6 | 6 | IR | **727 908 476** | 0.158 | 90 | 28 | 20 | 6.3 | 5,1 |
| | 125 | 110 | 17.6 | 6 | IR | **727 908 738** | 0.250 | 103 | 42 | 42 | 7.1 | 6,3 |
| | 140 | 110 | 17.6 | 6 | IR | **727 908 742** | 0.320 | 120 | 53 | 43 | 8.0 | 6,3 |
| | 140 | 125 | 17.6 | 6 | IR | **727 908 916** | 0.353 | 115 | 35 | 32 | 8.0 | 7,1 |
| | 160 | 110 | 17.6 | 6 | IR | **727 908 746** | 0.500 | 129 | 40 | 34 | 9.1 | 6,3 |
| | 160 | 140 | 17.6 | 6 | IR | **727 908 748** | 0.560 | 125 | 49 | 38 | 9.1 | 8,0 |
| | 180 | 90 | 17.6 | 6 | IR | **727 908 749** | 0.600 | 145 | 53 | 42 | 10.2 | 5,1 |
| | 180 | 110 | 17.6 | 6 | IR | **727 908 750** | 0.620 | 150 | 55 | 42 | 10.2 | 6,3 |
| | 180 | 125 | 17.6 | 6 | IR | **727 908 751** | 0.620 | 143 | 52 | 40 | 10.2 | 7,1 |

table continued on the next page




| | d (mm) | d1 (mm) | SDR | PN (bar) | FM | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) | e (mm) | e1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 180 | 140 | 17.6 | 6 | IR | **727 908 752** | 0.640 | 135 | 51 | 47 | 10.2 | 8,0 |
| | 180 | 160 | 17.6 | 6 | IR | **727 908 753** | 0.700 | 135 | 55 | 52 | 10.2 | 9,1 |
| | 200 | 160 | 17.6 | 6 | IR | **727 908 930** | 0.805 | 151 | 50 | 40 | 11.4 | 9,1 |
| | 200 | 180 | 17.6 | 6 | IR | **727 908 758** | 0.920 | 145 | 62 | 54 | 11.4 | 10,2 |
| | 225 | 110 | 17.6 | 6 | IR | **727 908 936** | 1.001 | 160 | 55 | 35 | 12.8 | 6,3 |
| | 225 | 160 | 17.6 | 6 | IR | **727 908 934** | 1.082 | 160 | 55 | 40 | 12.8 | 9,1 |
| | 225 | 180 | 17.6 | 6 | IR | **727 908 762** | 1.160 | 166 | 64 | 57 | 12.8 | 10,2 |
| | 225 | 200 | 17.6 | 6 | IR | **727 908 932** | 1.184 | 160 | 55 | 50 | 12.8 | 11,4 |
| | 250 | 160 | 17.6 | 6 | IR | **727 908 765** | 1.530 | 174 | 64 | 52 | 14.2 | 9,1 |
| | 250 | 225 | 17.6 | 6 | IR | **727 908 768** | 1.890 | 180 | 65 | 65 | 14.2 | 12,8 |
| 1 | 280 | 225 | 17.6 | 6 | IR | **727 908 772** | 2.370 | 200 | 70 | 55 | 15.9 | 12,8 |
| 1 | 280 | 250 | 17.6 | 6 | IR | **727 908 773** | 2.540 | 200 | 73 | 62 | 15.9 | 14,2 |
| 1 | 315 | 225 | 17.6 | 6 | IR | **727 908 776** | 3.320 | 237 | 84 | 59 | 17.9 | 12,8 |
| 1 | 315 | 250 | 17.6 | 6 | IR | **727 908 777** | 3.375 | 233 | 84 | 64 | 17.9 | 14,2 |
| 1 | 315 | 280 | 17.6 | 6 | IR | **727 908 778** | 3.510 | 227 | 85 | 72 | 17.9 | 15,9 |
| 1 | 355 | 315 | 17.6 | 6 | IR | **727 908 957** | 2.400 | 245 | 90 | 80 | 20.1 | 17,9 |
| 1 | 400 | 315 | 17.6 | 6 | -- | **727 908 972** | 3.600 | 260 | 95 | 80 | 22.7 | 17,9 |
| 1 | 400 | 355 | 17.6 | 6 | -- | **727 908 971** | 3.100 | 260 | 95 | 90 | 22.7 | 20,1 |
| | 450 | 280 | 17.6 | 6 | -- | **727 908 967** | 6.000 | 230 | 60 | 70 | 25.5 | 15,9 |
| | 450 | 315 | 17.6 | 6 | -- | **727 908 984** | 5.400 | 230 | 60 | 80 | 25.5 | 17,9 |
| | 450 | 355 | 17.6 | 6 | -- | **727 908 988** | 5.000 | 230 | 60 | 90 | 25.5 | 20,1 |
| | 450 | 400 | 17.6 | 6 | -- | **727 908 989** | 5.000 | 230 | 60 | 95 | 25.5 | 22,7 |
| | 500 | 315 | 17.6 | 6 | -- | **727 908 993** | 8.100 | 230 | 60 | 80 | 28.4 | 17,9 |
| | 500 | 355 | 17.6 | 6 | -- | **727 908 994** | 7.300 | 230 | 60 | 95 | 28.4 | 20,1 |
| | 500 | 400 | 17.6 | 6 | -- | **727 908 998** | 6.700 | 230 | 60 | 95 | 28.4 | 22,7 |
| | 500 | 450 | 17.6 | 6 | -- | **727 908 999** | 5.500 | 230 | 60 | 60 | 28.4 | 25,5 |





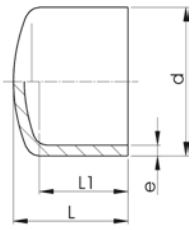

## PROGEF Standard Flush style reducer
## SDR17.6/PN6

**Model:**

- Material: PP-H
- Flush style design
- Conventional butt-welding according to DVS 2207
- Clamping on welding machine needs to be done always on the bigger diameter (d1)
- The butt fusion machine must be suitable to weld both dimensions (d1 and d2)

| d1 (mm) | d2 (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) | e1 (mm) | e2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 355 | 225 | 17.6 | 6 | **727 909 859** | 3.736 | 120 | 85 | 10 | 21.1 | 13.4 |
| 355 | 250 | 17.6 | 6 | **727 909 860** | 3.160 | 115 | 80 | 10 | 20.1 | 14.2 |
| 355 | 280 | 17.6 | 6 | **727 909 861** | 2.946 | 115 | 80 | 10 | 20.1 | 15.9 |
| 355 | 315 | 17.6 | 6 | **727 909 862** | 2.587 | 115 | 80 | 15 | 20.1 | 17.9 |
| 400 | 225 | 17.6 | 6 | **727 909 866** | 6.000 | 135 | 100 | 10 | 23.7 | 13.4 |
| 400 | 250 | 17.6 | 6 | **727 909 867** | 5.732 | 135 | 100 | 10 | 23.7 | 14.8 |
| 400 | 280 | 17.6 | 6 | **727 909 868** | 5.388 | 135 | 100 | 10 | 23.7 | 16.6 |
| 400 | 315 | 17.6 | 6 | **727 909 869** | 4.880 | 135 | 100 | 10 | 22.7 | 17.9 |
| 400 | 355 | 17.6 | 6 | **727 909 870** | 4.395 | 135 | 100 | 13 | 22.7 | 20.1 |
| 450 | 225 | 17.6 | 6 | **727 909 872** | 8.881 | 150 | 110 | 10 | 26.7 | 13.4 |
| 450 | 250 | 17.6 | 6 | **727 909 873** | 8.577 | 150 | 110 | 10 | 26.7 | 14.8 |
| 450 | 280 | 17.6 | 6 | **727 909 874** | 7.684 | 150 | 100 | 15 | 25.5 | 15.9 |
| 450 | 315 | 17.6 | 6 | **727 909 875** | 7.005 | 150 | 100 | 15 | 25.5 | 17.9 |
| 450 | 355 | 17.6 | 6 | **727 909 876** | 6.405 | 150 | 100 | 15 | 25.5 | 20.1 |
| 450 | 400 | 17.6 | 6 | **727 909 877** | 5.942 | 150 | 100 | 15 | 25.5 | 22.7 |
| 500 | 225 | 17.6 | 6 | **727 909 879** | 11.545 | 165 | 115 | 10 | 29.7 | 13.4 |
| 500 | 250 | 17.6 | 6 | **727 909 880** | 11.273 | 165 | 115 | 10 | 29.7 | 14.8 |
| 500 | 280 | 17.6 | 6 | **727 909 881** | 10.916 | 165 | 115 | 10 | 29.7 | 16.6 |
| 500 | 315 | 17.6 | 6 | **727 909 882** | 10.003 | 165 | 115 | 10 | 28.4 | 17.9 |
| 500 | 355 | 17.6 | 6 | **727 909 883** | 9.672 | 165 | 115 | 10 | 28.4 | 20.1 |
| 500 | 400 | 17.6 | 6 | **727 909 884** | 8.231 | 165 | 115 | 10 | 28.4 | 22.7 |
| 500 | 450 | 17.6 | 6 | **727 909 885** | 7.599 | 165 | 115 | 25 | 28.4 | 25.5 |





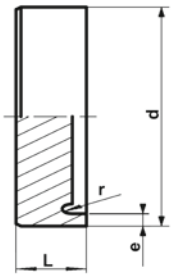

## PROGEF Standard End cap
## SDR17.6/PN6

**Model:**

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H

| d (mm) | SDR | PN (bar) | FM | Code | Weight (kg) | L (mm) | L1 (mm) | e (mm) |
|---|---|---|---|---|---|---|---|---|
| 50 | 17.6 | 6 | IR | **727 968 710** | 0.036 | 72 | 59 | 2.9 |
| 63 | 17.6 | 6 | IR | **727 968 711** | 0.061 | 83 | 66 | 3.6 |
| 75 | 17.6 | 6 | IR | **727 968 712** | 0.095 | 94 | 73 | 4.3 |
| 90 | 17.6 | 6 | IR | **727 968 713** | 0.160 | 110 | 83 | 5.1 |
| 110 | 17.6 | 6 | IR | **727 968 714** | 0.260 | 123 | 88 | 6.3 |
| 125 | 17.6 | 6 | IR | **727 968 715** | 0.360 | 127 | 92 | 7.1 |
| 140 | 17.6 | 6 | IR | **727 968 716** | 0.485 | 136 | 97 | 8.0 |
| 160 | 17.6 | 6 | IR | **727 968 717** | 0.735 | 161 | 109 | 9.1 |
| 180 | 17.6 | 6 | IR | **727 968 718** | 0.990 | 166 | 114 | 10.2 |
| 200 | 17.6 | 6 | IR | **727 968 719** | 1.310 | 179 | 117 | 11.4 |
| 225 | 17.6 | 6 | IR | **727 968 720** | 1.790 | 203 | 129 | 12.8 |



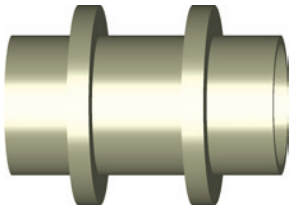


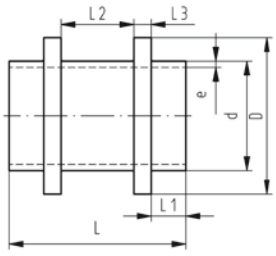

## PROGEF Standard End cap short
## SDR17.6/PN6

**Model:**

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- Machined

| d (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | e (mm) |
|---|---|---|---|---|---|---|
| 250 | 17.6 | 6 | **727 968 821** | 1.600 | 55 | 14.2 |
| 280 | 17.6 | 6 | **727 968 822** | 2.100 | 60 | 15.9 |
| 315 | 17.6 | 6 | **727 968 823** | 3.000 | 65 | 17.9 |
| 355 | 17.6 | 6 | **727 968 824** | 4.200 | 70 | 20.1 |
| 400 | 17.6 | 6 | **727 968 825** | 6.000 | 75 | 22.7 |
| 450 | 17.6 | 6 | **727 968 826** | 8.600 | 85 | 25.5 |
| 500 | 17.6 | 6 | **727 968 827** | 11.600 | 90 | 28.3 |





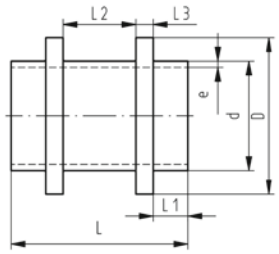

## PROGEF Standard Fixpoint fitting
## SDR17.6/PN6

**Model:**

- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207
- Machined

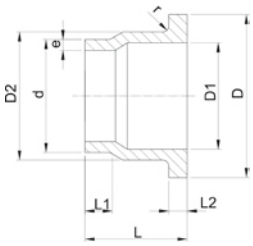
| d (mm) | SDR | PN (bar) | FM | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | D (mm) | e (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 17.6 | 6 | IR | **727 665 539** | 0.138 | 122 | 30 | 42 | 10 | 90 | 3.8 |
| 75 | 17.6 | 6 | IR | **727 665 540** | 0.203 | 122 | 30 | 42 | 10 | 110 | 4.5 |
| 90 | 17.6 | 6 | IR | **727 665 541** | 0.267 | 122 | 30 | 42 | 10 | 125 | 5.4 |
| 110 | 17.6 | 6 | IR | **727 665 542** | 0.438 | 142 | 30 | 52 | 15 | 140 | 6.6 |
| 125 | 17.6 | 6 | IR | **727 665 543** | 0.592 | 152 | 35 | 52 | 15 | 160 | 7.4 |
| 140 | 17.6 | 6 | IR | **727 665 544** | 0.781 | 162 | 40 | 52 | 15 | 180 | 8.3 |
| 160 | 17.6 | 6 | IR | **727 665 545** | 0.971 | 162 | 40 | 52 | 15 | 200 | 9.5 |
| 180 | 17.6 | 6 | IR | **727 665 546** | 1.464 | 182 | 45 | 52 | 20 | 225 | 10.7 |
| 200 | 17.6 | 6 | IR | **727 665 547** | 1.808 | 182 | 45 | 52 | 20 | 250 | 11.9 |
| 225 | 17.6 | 6 | IR | **727 665 548** | 2.549 | 192 | 45 | 52 | 25 | 280 | 13.4 |
| 250 | 17.6 | 6 | IR | **727 665 549** | 2.678 | 212 | 50 | 62 | 25 | 280 | 14.8 |
| 280 | 17.6 | 6 | IR | **727 665 550** | 3.668 | 222 | 50 | 62 | 30 | 315 | 16.6 |
| 315 | 17.6 | 6 | IR | **727 665 551** | 4.666 | 222 | 50 | 62 | 30 | 355 | 18.7 |

table continued on the next page




| d (mm) | SDR | PN (bar) | FM | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | D (mm) | e (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 355 | 17.6 | 6 | | **727 665 552** | 5.567 | 192 | 30 | 62 | 35 | 400 | 21.1 |
| 400 | 17.6 | 6 | | **727 665 553** | 7.835 | 212 | 30 | 72 | 40 | 450 | 23.7 |
| 450 | 17.6 | 6 | | **727 665 554** | 10.552 | 232 | 35 | 72 | 45 | 500 | 26.7 |
| 500 | 17.6 | 6 | | **727 665 555** | 14.608 | 252 | 40 | 72 | 50 | 560 | 29.7 |






## PROGEF Standard Outlet flange adaptor SDR17.6/PN6

**Model:**

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- To wafer check valves type 369

**Attention:**

- In conjunction with Outlet flange adaptors, **flange rings for socket systems** must be used.

| d (mm) | DN (mm) | SDR | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) | D (mm) | D1 (mm) | D2 (mm) | r (mm) | e (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | 32 | 17.6 | 6 | **727 808 009** | 0.048 | 64 | 30 | 11 | 80 | 37 | 50 | 3 | 2.3 |
| 50 | 40 | 17.6 | 6 | **727 808 010** | 0.091 | 67 | 30 | 12 | 90 | 43 | 61 | 3 | 2.9 |
| 63 | 50 | 17.6 | 6 | **727 808 011** | 0.096 | 74 | 30 | 14 | 105 | 54 | 76 | 4 | 3.6 |
| 75 | 65 | 17.6 | 6 | **727 808 012** | 0.170 | 78 | 30 | 16 | 125 | 70 | 90 | 4 | 4.3 |
| 90 | 80 | 17.6 | 6 | **727 808 013** | 0.260 | 87 | 35 | 17 | 140 | 82 | 108 | 4 | 5.1 |
| 110 | 100 | 17.6 | 6 | **727 808 014** | 0.429 | 102 | 41 | 18 | 160 | 105 | 131 | 4 | 6.3 |
| 140 | 125 | 17.6 | 6 | **727 808 016** | 0.808 | 124 | 47 | 18 | 190 | 130 | 165 | 4 | 8.0 |
| 160 | 150 | 17.6 | 6 | **727 808 017** | 1.107 | 149 | 52 | 18 | 215 | 158 | 188 | 4 | 9.1 |
| 225 | 200 | 17.6 | 6 | **727 808 020** | 2.324 | 180 | 55 | 24 | 270 | 206 | 248 | 4 | 12.7 |
| 280 | 250 | 17.6 | 6 | **727 808 022** | 3.563 | 240 | 63 | 25 | 325 | 259 | 308 | 4 | 15.9 |
| 315 | 300 | 17.6 | 6 | **727 808 023** | 2.450 | 272 | 66 | 25 | 375 | 308 | 346 | 4 | 17.9 |

Type A



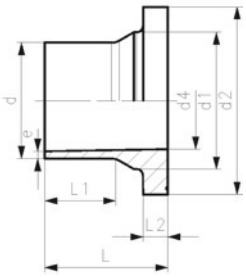
Type B



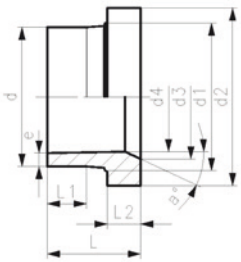
Type C



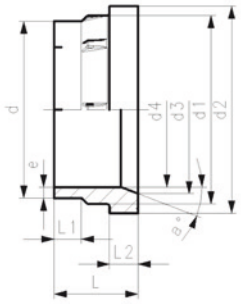
Type A




Type B




Type C




## PROGEF Standard Flange adaptor
## SDR17.6/PN6 combined jointing face: flat and serrated

**Model:**

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR- Infrared welding compatible
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Up to d400, suitable for butterfly valve type 567/578 and 038/039. Above use PROGEF Standard adaptor for butterfly valves SDR17.6 (d450-d500)
- Gasket: profile flange gasket EPDM No. 48 44 07, FKM No. 49 44 07

* Material:PP-R
**Material: PP-R, not suitable for butterfly valves

| | d (mm) | DN (mm) | SDR | PN (bar) | FM | Type | Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| | 50 | 40 | 17.6 | 6 | IR | A | **727 798 210** | 0.077 |
| | 63 | 50 | 17.6 | 6 | IR | A | **727 798 211** | 0.116 |
| | 75 | 65 | 17.6 | 6 | IR | A | **727 798 787** | 0.204 |
| | 90 | 80 | 17.6 | 6 | IR | A | **727 798 788** | 0.273 |
| | 110 | 100 | 17.6 | 6 | IR | A | **727 798 789** | 0.361 |
| | 125 | 100 | 17.6 | 6 | IR | B | **727 798 215** | 0.386 |
| | 140 | 125 | 17.6 | 6 | IR | B | **727 798 216** | 0.597 |
| * | 160 | 150 | 17.6 | 6 | IR | B | **727 798 417** | 0.730 |
| | 180 | 150 | 17.6 | 6 | IR | A | **727 798 218** | 0.630 |
| | 200 | 200 | 17.6 | 6 | IR | C | **727 798 219** | 1.268 |
| ** | 225 | 200 | 17.6 | 6 | IR | C | **727 798 420** | 1.420 |
| | 250 | 250 | 17.6 | 6 | IR | C | **727 798 421** | 2.130 |
| | 280 | 250 | 17.6 | 6 | IR | C | **727 798 222** | 1.785 |
| | 315 | 300 | 17.6 | 6 | IR | C | **727 798 423** | 2.499 |
| * | 355 | 350 | 17.6 | 6 | | C | **727 798 224** | 4.600 |
| * | 400 | 400 | 17.6 | 6 | | C | **727 798 225** | 6.100 |
| ** | 450 | 500 | 17.6 | 6 | | C | **727 798 226** | 12.100 |
| ** | 500 | 500 | 17.6 | 6 | | C | **727 798 227** | 12.700 |

| | d (mm) | DN (mm) | d1 (mm) | d2 (mm) | d3 (mm) | d4 (mm) | L (mm) | L1 (mm) | L2 (mm) | e (mm) | a° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50 | 40 | 60 | 88 | | 44 | 62 | 32 | 12 | 3.0 | |
| | 63 | 50 | 75 | 102 | | 55 | 68 | 38 | 14 | 3.8 | |
| | 75 | 65 | 89 | 122 | | 63 | 80 | 43 | 16 | 4.5 | |
| | 90 | 80 | 105 | 138 | | 78 | 80 | 42 | 17 | 5.4 | |
| | 110 | 100 | 125 | 158 | | 94 | 80 | 42 | 18 | 6.6 | |
| | 125 | 100 | 132 | 158 | 114 | 110 | 82 | 35 | 25 | 7.4 | 25.0 |
| | 140 | 125 | 155 | 188 | 127 | 123 | 89 | 39 | 25 | 8.3 | 27.0 |
| * | 160 | 150 | 175 | 212 | 158 | 142 | 100 | 40 | 19 | 9.1 | 30.0 |
| | 180 | 150 | 180 | 212 | | 158 | 92 | 45 | 20 | 10.7 | |
| | 200 | 200 | 232 | 268 | 203 | 174 | 100 | 42 | 24 | 11.9 | 30.0 |
| ** | 225 | 200 | 235 | 268 | 210 | 199 | 125 | 45 | 24 | 12.8 | 30.0 |
| | 250 | 250 | 285 | 320 | 252 | 221 | 120 | 45 | 26 | 14.8 | 25.0 |
| | 280 | 250 | 291 | 320 | 265 | 247 | 120 | 45 | 35 | 16.6 | 30.0 |
| | 315 | 300 | 335 | 370 | 300 | 278 | 150 | 50 | 51 | 18.7 | 21.0 |
| * | 355 | 350 | 373 | 430 | 346 | 310 | 155 | 70 | 33 | 21.1 | 21.0 |
| * | 400 | 400 | 427 | 482 | 395 | 350 | 162 | 70 | 36 | 23.7 | 21.0 |
| ** | 450 | 500 | 514 | 585 | 400 | 400 | 211 | 105 | 46 | 26.7 | 4.0 |
| ** | 500 | 500 | 530 | 585 | 442 | 442 | 217 | 105 | 46 | 29.7 | 1.5 |



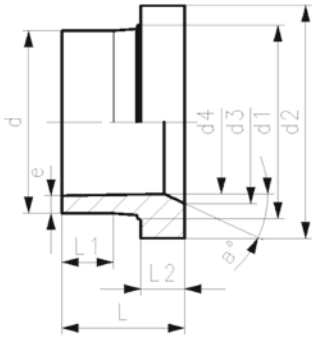
### PROGEF Standard Flange adaptor for butterfly valves SDR17.6/PN6

**Model:**

- Material: PP-R
- Conventional butt-welding according to DVS 2207
- Suitable for butterfly valve type 567/578 and 038/039

| d (mm) | DN (mm) | SDR | PN (bar) | Type | Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 450 | 500 | 17.6 | 6 | B | **727 798 951** | 10.200 |
| 500 | 500 | 17.6 | 6 | B | **727 798 952** | 11.500 |

Type B




| d (mm) | d1 (mm) | d2 (mm) | d3 (mm) | d4 (mm) | L (mm) | L1 (mm) | L2 (mm) | e (mm) | a° |
|---|---|---|---|---|---|---|---|---|---|
| 450 | 467 | 533 | 450 | 397 | 224 | 105 | 59 | 27.5 | 23 |
| 500 | 530 | 585 | 498 | 440 | 217 | 105 | 46 | 30.5 | 25 |

# Socket fusion fittings

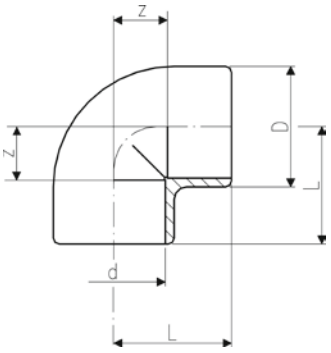


### PROGEF Standard Elbow 90° PN10

**Model:**

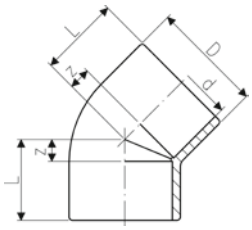
- Material: PP-H

* use pipe SDR 7.4




| | d (mm) | PN (bar) | Code | Weight (kg) | L (mm) | D (mm) | z (mm) |
|---|---|---|---|---|---|---|---|
| * | 16 | 10 | **727 100 105** | 0.014 | 25 | 26 | 12 |
| | 20 | 10 | **727 100 106** | 0.020 | 28 | 31 | 14 |
| | 25 | 10 | **727 100 107** | 0.029 | 32 | 36 | 16 |
| | 32 | 10 | **727 100 108** | 0.044 | 38 | 44 | 20 |
| | 40 | 10 | **727 100 109** | 0.071 | 44 | 54 | 24 |
| | 50 | 10 | **727 100 110** | 0.121 | 51 | 66 | 28 |
| | 63 | 10 | **727 100 111** | 0.228 | 62 | 82 | 35 |
| | 75 | 10 | **727 100 112** | 0.301 | 76 | 93 | 45 |
| | 90 | 10 | **727 100 113** | 0.477 | 88 | 110 | 53 |
| | 110 | 10 | **727 100 114** | 0.869 | 106 | 134 | 65 |






## PROGEF Standard Elbow 45° PN10

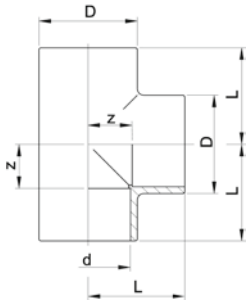
**Model:**

- Material: PP-H

* use pipe SDR 7.4

| | d (mm) | PN (bar) | Code | Weight (kg) | L (mm) | D (mm) | z (mm) |
|---|---|---|---|---|---|---|---|
| * | 16 | 10 | **727 150 105** | 0.009 | 20 | 23 | 7 |
| | 20 | 10 | **727 150 106** | 0.016 | 21 | 31 | 7 |
| | 25 | 10 | **727 150 107** | 0.024 | 24 | 36 | 8 |
| | 32 | 10 | **727 150 108** | 0.036 | 28 | 44 | 10 |
| | 40 | 10 | **727 150 109** | 0.059 | 33 | 53 | 13 |
| | 50 | 10 | **727 150 110** | 0.084 | 36 | 64 | 13 |
| | 63 | 10 | **727 150 111** | 0.183 | 43 | 82 | 16 |
| | 75 | 10 | **727 150 112** | 0.219 | 51 | 93 | 20 |
| | 90 | 10 | **727 150 113** | 0.336 | 58 | 110 | 23 |
| | 110 | 10 | **727 150 114** | 0.657 | 68 | 134 | 27 |






## PROGEF Standard Tee 90° equal PN10

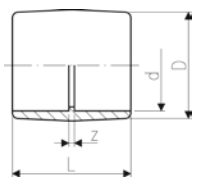
**Model:**

- Material: PP-H

* use pipe SDR 7.4

| | d (mm) | PN (bar) | Code | Weight (kg) | L (mm) | D (mm) | z (mm) |
|---|---|---|---|---|---|---|---|
| * | 16 | 10 | **727 200 105** | 0.020 | 25 | 26 | 12 |
| | 20 | 10 | **727 200 106** | 0.027 | 28 | 31 | 14 |
| | 25 | 10 | **727 200 107** | 0.039 | 32 | 36 | 16 |
| | 32 | 10 | **727 200 108** | 0.057 | 38 | 44 | 20 |
| | 40 | 10 | **727 200 109** | 0.095 | 44 | 54 | 24 |
| | 50 | 10 | **727 200 110** | 0.161 | 51 | 66 | 28 |
| | 63 | 10 | **727 200 111** | 0.286 | 62 | 82 | 35 |
| | 75 | 10 | **727 200 112** | 0.390 | 76 | 93 | 45 |
| | 90 | 10 | **727 200 113** | 0.727 | 88 | 114 | 53 |
| | 110 | 10 | **727 200 114** | 1.062 | 106 | 134 | 65 |






## PROGEF Standard Socket equal PN10

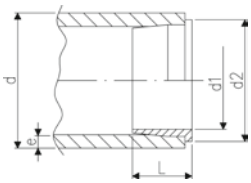
**Model:**

- Material: PP-H

* use pipe SDR 7.4

| d (mm) | PN (bar) | Code | Weight (kg) | L (mm) | D (mm) | z (mm) |
|---|---|---|---|---|---|---|
| *16 | 10 | **727 910 105** | 0.010 | 33 | 26 | 7 |
| 20 | 10 | **727 910 106** | 0.013 | 35 | 31 | 7 |
| 25 | 10 | **727 910 107** | 0.020 | 39 | 36 | 7 |
| 32 | 10 | **727 910 108** | 0.028 | 43 | 44 | 7 |
| 40 | 10 | **727 910 109** | 0.045 | 48 | 54 | 8 |
| 50 | 10 | **727 910 110** | 0.072 | 54 | 66 | 8 |
| 63 | 10 | **727 910 111** | 0.118 | 62 | 82 | 8 |
| 75 | 10 | **727 910 112** | 0.147 | 70 | 93 | 8 |
| 90 | 10 | **727 910 113** | 0.238 | 81 | 112 | 11 |
| 110 | 10 | **727 910 114** | 0.425 | 96 | 134 | 14 |






## PROGEF Standard stiffener

**Model:**

- Material: PP-H
- Used as support during d20 and d25 socket fusion jointing to prevent the pipe from collapsing during the heating and jointing process.

| d (mm) | Code | Weight (kg/m) | L (mm) | d1 (mm) | d2 (mm) | e (mm) |
|---|---|---|---|---|---|---|
| 20 | **727 900 006** | 0.001 | 10 | 14 | 18 | 1.9 |
| 25 | **727 900 007** | 0.004 | 11 | 18 | 23 | 2.3 |






## PROGEF Standard Barrel nipple PN10

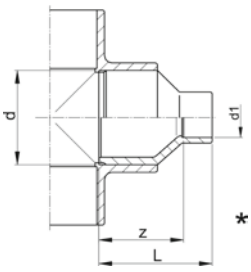
**Model:**

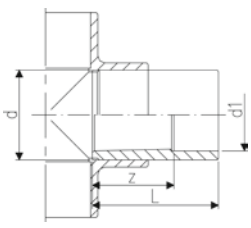
- Material: PP-H
- With fusion spigots on both sides
- For the shortest possible distance between fittings

* In these two sizes, stiffeners Code No. 727 900 006 (20 x 1.9) and 727 900 007 (25 x 2.3), or pipe SDR 7.4 must be used with socket fusion joints.

| | d (mm) | PN (bar) | Code | Weight (kg) | L (mm) |
|---|---|---|---|---|---|
| | 16 | 10 | **727 910 905** | 0.005 | 36 |
| * | 20 | 10 | **727 910 906** | 0.005 | 37 |
| * | 25 | 10 | **727 910 907** | 0.006 | 41 |
| | 32 | 10 | **727 910 908** | 0.010 | 45 |
| | 40 | 10 | **727 910 909** | 0.017 | 50 |
| | 50 | 10 | **727 910 910** | 0.029 | 55 |
| | 63 | 10 | **727 910 911** | 0.058 | 64 |
| | 75 | 10 | **727 910 912** | 0.095 | 76 |
| | 90 | 10 | **727 910 913** | 0.163 | 90 |
| | 110 | 10 | **727 910 914** | 0.305 | 108 |






## PROGEF Standard Reducer PN10

**Model:**

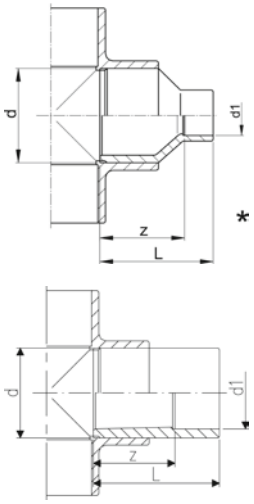
- Material: PP-H

**Note:**

* Fusion spigot and socket

| d (mm) | d1 (mm) | PN (bar) | Code | Weight (kg) | L (mm) | z (mm) |
|---|---|---|---|---|---|---|
| 20 | 16 | 10 | **727 910 334** | 0.013 | 35 | 22 |
| 25 | 16 | 10 | **727 910 338** | 0.010 | 38 | 25 |
| 25 | 20 | 10 | **727 910 337** | 0.012 | 37 | 23 |
| 32 | 20 | 10 | **727 910 342** | 0.016 | 43 | 29 |
| 32 | 25 | 10 | **727 910 341** | 0.019 | 43 | 27 |
| 40 | 20 | 10 | **727 910 348** | 0.022 | 48 | 34 |
| 40 | 25 | 10 | **727 910 347** | 0.025 | 48 | 32 |
| 40 | 32 | 10 | **727 910 346** | 0.030 | 48 | 30 |
| 50 | 20 | 10 | **727 910 355** | 0.034 | 54 | 40 |
| 50 | 25 | 10 | **727 910 354** | 0.034 | 54 | 38 |
| 50 | 32 | 10 | **727 910 353** | 0.039 | 54 | 36 |
| 50 | 40 | 10 | **727 910 352** | 0.048 | 54 | 34 |
| 63 | 25 | 10 | **727 910 361** | 0.054 | 64 | 46 |
| 63 | 32 | 10 | **727 910 360** | 0.062 | 64 | 46 |
| 63 | 40 | 10 | **727 910 359** | 0.069 | 64 | 44 |

table continued on the next page




| d (mm) | d1 (mm) | PN (bar) | Code | Weight (kg) | L (mm) | z (mm) |
|---|---|---|---|---|---|---|
| 63 | 50 | 10 | **727 910 358** | 0.083 | 64 | 41 |
| 75 | 63 | 10 | **727 910 364** | 0.098 | 62 | 35 |
| 90 | 63 | 10 | **727 910 371** | 0.170 | 88 | 61 |
| 90 | 75 | 10 | **727 910 370** | 0.142 | 70 | 39 |
| 110 | 90 | 10 | **727 910 376** | 0.235 | 81 | 46 |



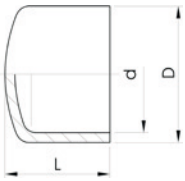



## PROGEF Standard End cap PN10

**Model:**

- Material: PP-H

* use pipe SDR 7.4



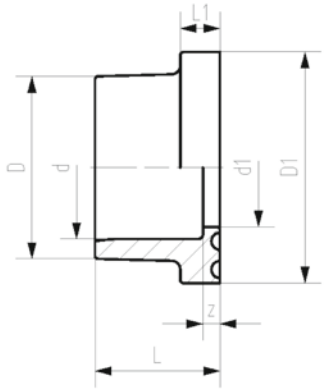

| | d (mm) | PN (bar) | Code | Weight (kg) | L (mm) | D (mm) |
|---|---|---|---|---|---|---|
| * | 16 | 10 | **727 960 105** | 0.006 | 20 | 25 |
| | 20 | 10 | **727 960 106** | 0.009 | 27 | 30 |
| | 25 | 10 | **727 960 107** | 0.015 | 30 | 36 |
| | 32 | 10 | **727 960 108** | 0.023 | 34 | 44 |
| | 40 | 10 | **727 960 109** | 0.035 | 38 | 53 |
| | 50 | 10 | **727 960 110** | 0.061 | 44 | 65 |
| | 63 | 10 | **727 960 111** | 0.102 | 51 | 80 |
| | 75 | 10 | **727 960 112** | 0.149 | 65 | 91 |
| | 90 | 10 | **727 960 113** | 0.277 | 77 | 111 |
| | 110 | 10 | **727 960 114** | 0.411 | 93 | 137 |



## PROGEF Standard Flange adaptor PN10 Jointing face flat/serrated

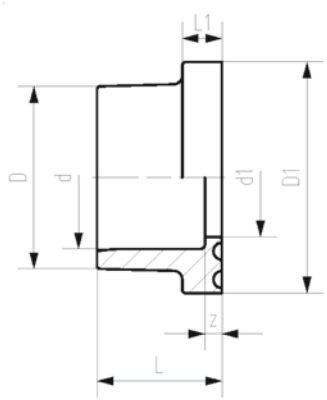
**Model:**

- Material: PP-H
- Connection: according to EN ISO 15494-1
- Counterpart: flange adaptor flat/serrated or with O-ring groove
- Flanges: PP - steel, No. 27 70 02, PP-V, No. 27 70 04
- ANSI: profile flange gasket EPDM No. 48 44 05, FKM No. 49 44 05
- ISO: profile flange gasket EPDM No. 48 44 07, FKM No. 49 44 07



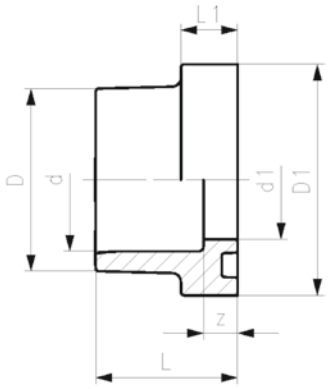

| d (mm) | DN (mm) | Standard | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | D (mm) | D1 (mm) | d1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 15 | Metric/ANSI | 10 | **727 790 206** | 0.011 | 19 | 7 | 27 | 45 | 16 | 5 |
| 25 | 20 | Metric | 10 | **727 790 207** | 0.022 | 21 | 9 | 33 | 58 | 21 | 5 |
| 25 | | ANSI | 10 | **727 790 257** | 0.018 | 21 | 7 | 33 | 54 | 21 | 5 |
| 32 | 25 | Metric | 10 | **727 790 208** | 0.033 | 23 | 10 | 41 | 68 | 28 | 5 |
| 32 | | ANSI | 10 | **727 790 258** | 0.026 | 23 | 7 | 41 | 63 | 28 | 5 |
| 40 | 32 | Metric | 10 | **727 790 209** | 0.046 | 25 | 11 | 50 | 78 | 36 | 5 |
| 40 | | ANSI | 10 | **727 790 259** | 0.041 | 25 | 8 | 50 | 73 | 36 | 5 |
| 50 | 40 | Metric | 10 | **727 790 210** | 0.060 | 28 | 12 | 61 | 88 | 45 | 5 |
| 50 | | ANSI | 10 | **727 790 260** | 0.055 | 28 | 8 | 61 | 82 | 45 | 5 |
| 63 | 50 | Metric/ANSI | 10 | **727 790 211** | 0.090 | 32 | 14 | 76 | 102 | 57 | 5 |

table continued on the next page




| d (mm) | DN (mm) | Standard | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | D (mm) | D1 (mm) | d1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | 65 | Metric/ANSI | 10 | **727 790 212** | 0.155 | 36 | 16 | 90 | 122 | 69 | 5 |
| 90 | 80 | Metric | 10 | **727 790 213** | 0.204 | 42 | 17 | 108 | 138 | 84 | 7 |
| 90 | | ANSI | 10 | **727 790 263** | 0.189 | 36 | 16 | 108 | 133 | 84 | 5 |
| 110 | 100 | Metric/ANSI | 10 | **727 790 214** | 0.286 | 48 | 18 | 131 | 158 | 100 | 7 |





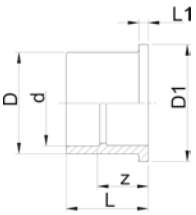

## PROGEF Standard Flange adaptor
## PN10 Jointing face with o-ring groove

**Model:**

- Material: PP-H
- Counterpart: flange adaptor flat/serrated, No. 27 79 02
- Flanges: PP - steel, No. 27 70 02 (mm) or No. 27 70 12 (ANSI), PP-V, No. 27 70 04
- Gasket: O-ring EPDM No. 48 41 01, FKM No. 49 41 01

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | D (mm) | D1 (mm) | d1 (mm) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 15 | 10 | **727 810 106** | 0.007 | 27 | 34 | 16 | 22 | 9 | 8 |
| 25 | 20 | 10 | **727 810 107** | 0.012 | 33 | 41 | 21 | 24 | 10 | 8 |
| 32 | 25 | 10 | **727 810 108** | 0.018 | 41 | 50 | 28 | 26 | 10 | 8 |
| 40 | 32 | 10 | **727 810 109** | 0.027 | 50 | 61 | 36 | 30 | 13 | 10 |
| 50 | 40 | 10 | **727 810 110** | 0.043 | 61 | 73 | 45 | 33 | 13 | 10 |
| 63 | 50 | 10 | **727 810 111** | 0.070 | 76 | 90 | 57 | 37 | 14 | 10 |
| 75 | 65 | 10 | **727 810 112** | 0.105 | 90 | 106 | 69 | 40 | 15 | 10 |
| 90 | 80 | 10 | **727 810 113** | 0.170 | 108 | 125 | 84 | 47 | 16 | 12 |
| 110 | 100 | 10 | **727 810 114** | 0.263 | 131 | 150 | 100 | 55 | 18 | 13 |






## PROGEF Standard Outlet flange adaptor
## PN6 Jointing face flat

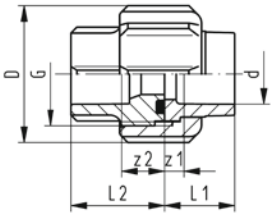
**Model:**

- Material: PP-H
- With fusion socket metric
- Suitable for wafer check valves Type 369
- To be installed on the outlet side of the valve
- Use flanges PP-V 27 70 04

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | D (mm) | D1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 40 | 32 | 6 | **727 800 009** | 0.068 | 55 | 11 | 50 | 78 | 35 |
| 50 | 40 | 6 | **727 800 010** | 0.087 | 61 | 12 | 61 | 88 | 38 |
| 63 | 50 | 6 | **727 800 011** | 0.136 | 69 | 14 | 76 | 102 | 41 |
| 75 | 65 | 6 | **727 800 012** | 0.214 | 79 | 16 | 90 | 122 | 49 |
| 90 | 80 | 6 | **727 800 013** | 0.350 | 100 | 17 | 107 | 138 | 65 |
| 110 | 100 | 6 | **727 800 014** | 0.468 | 105 | 18 | 130 | 158 | 62 |

# Unions for socket fusion






## PROGEF Standard Union
## PN10

**Model:**

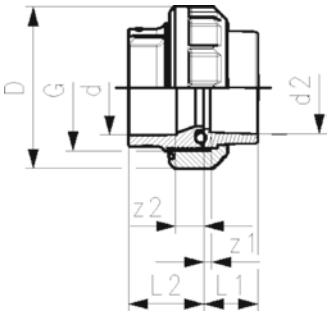
- Material: PP-H
- Fusion socket metric
- Jointing face: With O-ring groove
- **For the dimensions d75-110 please see instructions for the installation**

d75-d110 new thread design since 2022

| d (mm) | PN (bar) | EPDM Code | FKM Code | Weight (kg) |
|---|---|---|---|---|
| 16 | 10 | **727 510 155** | **727 520 155** | 0.020 |
| 20 | 10 | **727 510 156** | **727 520 156** | 0.038 |
| 25 | 10 | **727 510 157** | **727 520 157** | 0.062 |
| 32 | 10 | **727 510 158** | **727 520 158** | 0.080 |
| 40 | 10 | **727 510 159** | **727 520 159** | 0.137 |
| 50 | 10 | **727 510 160** | **727 520 160** | 0.136 |
| 63 | 10 | **727 510 161** | **727 520 161** | 0.251 |
| 75 | 10 | **727 510 192** | **727 520 192** | 0.427 |
| 90 | 10 | **727 510 193** | **727 520 193** | 0.625 |
| 110 | 10 | **727 510 194** | **727 520 194** | 1.161 |

| d (mm) | L1 (mm) | L2 (mm) | D (mm) | G (inch) | z1 (mm) | z2 (mm) | Size | O-Ring EPDM | O-Ring FKM |
|---|---|---|---|---|---|---|---|---|---|
| 16 | 18 | 24 | 35 | 3/4 | 3 | 9 | 15,54 x 2,62 | 748.410.005 | 749.410.005 |
| 20 | 19 | 26 | 48 | 1 | 3 | 10 | 20,22 x 3,53 | 748.410.006 | 749.410.006 |
| 25 | 21 | 28 | 58 | 1 1/4 | 3 | 10 | 28,17 x 3,53 | 748.410.007 | 749.410.007 |
| 32 | 23 | 30 | 65 | 1 1/2 | 3 | 10 | 32,93 x 3,53 | 748.410.008 | 749.410.008 |
| 40 | 25 | 34 | 79 | 2 | 3 | 12 | 40,65 x 5,34 | 748.410.009 | 749.410.009 |
| 50 | 28 | 39 | 91 | 2 1/4 | 3 | 14 | 46,99 x 5,34 | 748.410.010 | 749.410.010 |
| 63 | 32 | 47 | 111 | 2 3/4 | 3 | 18 | 59,69 x 5,34 | 748.410.011 | 749.410.011 |
| 75 | 36 | 51 | 138 | S110x5 | 3 | 18 | 74,63 x 5,34 | 748.410.383 | 749.410.383 |
| 90 | 42 | 55 | 161 | S130x5 | 5 | 18 | 94,62 x 5,34 | 748.410.248 | 749.410.248 |
| 110 | 49 | 54 | 191 | S155x5 | 6 | 12 | 114,7 x 6,99 | 748.410.384 | 749.410.384 |






## PROGEF Standard Adapter union
## PN10 Metric BS Inch

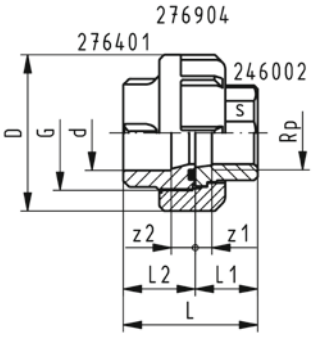
**Model:**

- Material: PP-H
- Fusion socket metric
- Jointing face: With O-ring groove

| d (mm) | PN (bar) | d2 (inch) | Code | Weight (kg) | L1 (mm) | L2 (mm) | D (mm) | G (kierre R/ Rp BS) (inch) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 10 | ½ | **727 513 006** | 0.041 | 19 | 26 | 48 | 1 | 5 | 12 |
| 25 | 10 | ¾ | **727 513 007** | 0.061 | 21 | 28 | 58 | 1 1/4 | 5 | 12 |
| 32 | 10 | 1 | **727 513 008** | 0.079 | 23 | 30 | 65 | 1 1/2 | 5 | 12 |
| 40 | 10 | 1 ¼ | **727 513 009** | 0.108 | 25 | 34 | 79 | 2 | 5 | 14 |
| 50 | 10 | 1 ½ | **727 513 010** | 0.133 | 28 | 39 | 91 | 2 1/4 | 5 | 16 |
| 63 | 10 | 2 | **727 513 011** | 0.252 | 32 | 47 | 111 | 2 3/4 | 5 | 20 |

# Adaptor unions






## PROGEF Standard Adaptor union
## PN10 PP-H/malleable iron galvanised metric Rp

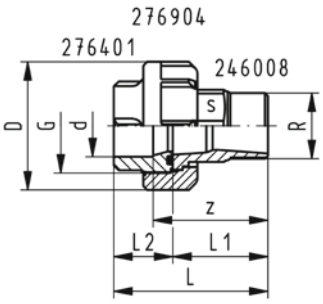
**Model:**

- Union End: malleable iron with parallel female thread Rp
- Union bush: fusion socket PP-H metric
- Union Nut: PP-H
- Gasket: O-ring EPDM

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) |
|---|---|---|---|---|---|
| 20 | Rp | ½ | 10 | **727 530 306** | 0.073 |
| 25 | Rp | ¾ | 10 | **727 530 307** | 0.118 |
| 32 | Rp | 1 | 10 | **727 530 308** | 0.199 |
| 40 | Rp | 1 ¼ | 10 | **727 530 309** | 0.276 |
| 50 | Rp | 1 ½ | 10 | **727 530 310** | 0.317 |
| 63 | Rp | 2 | 10 | **727 530 311** | 0.579 |

| d (mm) | L (mm) | L1 (mm) | L2 (mm) | D (mm) | G (inch) | s (mm) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | 48 | 22 | 26 | 43 | 1 | 25 | 9 | 10 |
| 25 | 50 | 22 | 28 | 51 | 1 1/4 | 31 | 7 | 10 |
| 32 | 56 | 26 | 30 | 58 | 1 1/2 | 38 | 9 | 10 |
| 40 | 65 | 31 | 34 | 72 | 2 | 48 | 12 | 12 |
| 50 | 72 | 33 | 39 | 83 | 2 1/4 | 54 | 14 | 14 |
| 63 | 82 | 35 | 47 | 100 | 2 3/4 | 67 | 11 | 18 |





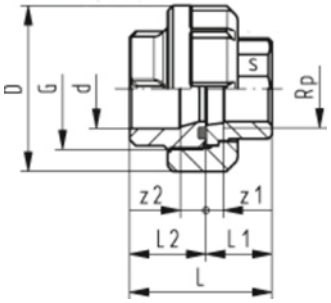

## PROGEF Standard Adaptor union
## PN10 PP-H/malleable iron galvanised metric R

**Model:**

- Gasket: O-ring EPDM
- Union End: Malleable iron with taper male thread R
- Union bush: fusion socket PP-H metric
- Union Nut: PP-H

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) | D (mm) | G (inch) | s (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | R | ½ | 10 | **727 530 806** | 0.112 | 66 | 40 | 26 | 43 | 1 | 25 | 50 |
| 25 | R | ¾ | 10 | **727 530 807** | 0.171 | 71 | 43 | 28 | 51 | 1 1/4 | 31 | 53 |
| 32 | R | 1 | 10 | **727 530 808** | 0.236 | 78 | 48 | 30 | 58 | 1 1/2 | 38 | 58 |
| 40 | R | 1 ¼ | 10 | **727 530 809** | 0.379 | 91 | 57 | 34 | 72 | 2 | 48 | 69 |
| 50 | R | 1 ½ | 10 | **727 530 810** | 0.512 | 98 | 59 | 39 | 83 | 2 1/4 | 54 | 73 |
| 63 | R | 2 | 10 | **727 530 811** | 0.763 | 109 | 62 | 47 | 100 | 2 3/4 | 67 | 80 |






## PROGEF Standard Adaptor union
## PN10 PP-H/brass metric Rp

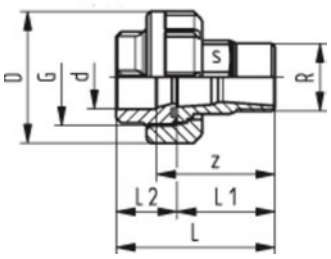
**Model:**

- Union Nut: PP-H
- Union bush: fusion socket PP-H metric
- Union End: Brass with parallel female thread Rp
- Gasket: O-ring EPDM

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) |
|---|---|---|---|---|---|
| 20 | Rp | ½ | 10 | **727 550 506** | 0.091 |
| 25 | Rp | ¾ | 10 | **727 550 507** | 0.152 |
| 32 | Rp | 1 | 10 | **727 550 508** | 0.194 |
| 40 | Rp | 1 ¼ | 10 | **727 550 509** | 0.317 |
| 50 | Rp | 1 ½ | 10 | **727 550 510** | 0.436 |
| 63 | Rp | 2 | 10 | **727 550 511** | 0.774 |

| d (mm) | L (mm) | L1 (mm) | L2 (mm) | D (mm) | s (mm) | G (inch) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | 48 | 22 | 26 | 48 | 25 | 1 | 7 | 10 |
| 25 | 53 | 25 | 28 | 58 | 30 | 1 1/4 | 9 | 10 |
| 32 | 57 | 27 | 30 | 65 | 36 | 1 1/2 | 8 | 10 |
| 40 | 65 | 31 | 34 | 79 | 46 | 2 | 10 | 12 |
| 50 | 74 | 35 | 39 | 91 | 55 | 2 1/4 | 13 | 14 |
| 63 | 87 | 40 | 47 | 105 | 65 | 2 3/4 | 14 | 18 |






## PROGEF Standard adaptor union
## PN10 PP-H/brass metric R

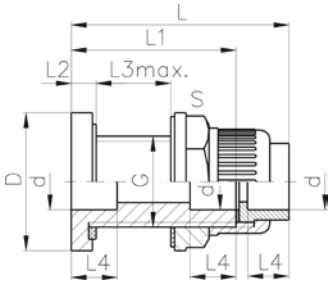
**Model:**

- Union End: Brass with taper male thread R
- Gasket: O-ring EPDM
- Union Nut: PP-H
- Union bush: fusion socket PP-H metric

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) | D (mm) | s (mm) | G (inch) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | R | ½ | 10 | **727 550 906** | 0.130 | 63 | 37 | 26 | 48 | 25 | 1 | 47 |
| 25 | R | ½ | 10 | **727 550 957** | 0.203 | 65 | 37 | 28 | 58 | 30 | 1 1/4 | 47 |
| 25 | R | ¾ | 10 | **727 550 907** | 0.203 | 70 | 42 | 28 | 58 | 30 | 1 1/4 | 52 |
| 25 | R | 1 | 10 | **727 550 967** | 0.318 | 99 | 46 | 30 | 58 | 30 | 1 1/4 | 81 |
| 32 | R | ½ | 10 | **727 550 958** | 0.298 | 67 | 37 | 30 | 65 | 36 | 1 1/2 | 47 |
| 32 | R | ¾ | 10 | **727 550 968** | 0.298 | 72 | 42 | 30 | 65 | 36 | 1 1/2 | 52 |
| 32 | R | 1 | 10 | **727 550 908** | 0.389 | 76 | 46 | 30 | 65 | 36 | 1 1/2 | 56 |
| 40 | R | 1 ¼ | 10 | **727 550 909** | 0.493 | 86 | 52 | 34 | 79 | 46 | 2 | 64 |
| 50 | R | 1 ½ | 10 | **727 550 910** | 0.650 | 95 | 56 | 39 | 91 | 55 | 2 1/4 | 70 |
| 63 | R | 2 | 10 | **727 550 911** | 1.123 | 114 | 67 | 47 | 105 | 65 | 2 3/4 | 85 |

# Tank adaptors






### PROGEF Standard Tank adaptor

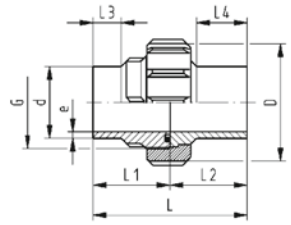
**Model:**

- End connection: union with fusion socket metric
- Gasket: flat gasket EPDM
- Material: PP-H

| d (mm) | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) | L3 max (mm) | L4 (mm) | D (mm) | s (mm) | G (inch) | Diameter of bore in tank side (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 10 | **167 050 226** | 0.098 | 89 | 67 | 11 | 30 | 16 | 56 | 38 | 1 | 35 |
| 25 | 10 | **167 050 227** | 0.153 | 96 | 72 | 12 | 32 | 18 | 65 | 47 | 1 ¼ | 43 |
| 32 | 10 | **167 050 228** | 0.185 | 100 | 75 | 12 | 33 | 20 | 70 | 53 | 1 ½ | 49 |
| 40 | 10 | **167 050 229** | 0.292 | 106 | 78 | 12 | 32 | 22 | 95 | 75 | 2 | 61 |
| 50 | 10 | **167 050 230** | 0.308 | 112 | 82 | 13 | 32 | 25 | 95 | 75 | 2 ¼ | 67 |
| 63 | 10 | **167 050 231** | 0.493 | 122 | 87 | 13 | 33 | 29 | 115 | 101 | 2 ¾ | 83 |

# Unions for butt fusion






### PROGEF Standard Union SDR11/PN10

**Model:**

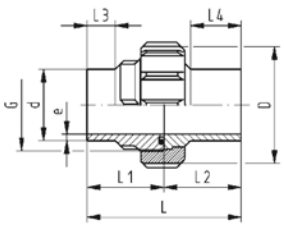
- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207

With butt fusion ends
Gasket: O-ring EPDM
**For the dimensions d75-110 please see instructions for the installation**
d75-d110 new thread design since 2022

| d (mm) | SDR | PN (bar) | FM | EPDM Code | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 20 | 11 | 10 | IR | **727 518 506** | **727 528 506** | 0.047 |
| 25 | 11 | 10 | IR | **727 518 507** | **727 528 507** | 0.072 |
| 32 | 11 | 10 | IR | **727 518 508** | **727 528 508** | 0.100 |
| 40 | 11 | 10 | IR | **727 518 509** | **727 528 509** | 0.145 |
| 50 | 11 | 10 | IR | **727 518 510** | **727 528 510** | 0.190 |
| 63 | 11 | 10 | IR | **727 518 511** | **727 528 511** | 0.332 |
| 75 | 11 | 10 | IR | **727 518 212** | **727 528 212** | 0.520 |
| 90 | 11 | 10 | IR | **727 518 213** | **727 528 213** | 0.533 |
| 110 | 11 | 10 | IR | **727 518 214** | **727 528 214** | 0.754 |

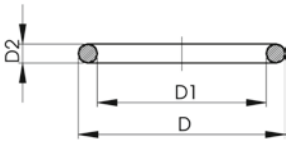
| d (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | D (mm) | G (inch) | e (mm) | Size | O-Ring EPDM |
|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 107.0 | 54.0 | 53.0 | 26 | 37 | 48 | 1 | 1.9 | 20,22 x 3,53 | 748.410.006 |
| 25 | 113.0 | 57.0 | 56.0 | 26 | 36 | 58 | 1 1/4 | 2.3 | 28,17 x 3,53 | 748.410.007 |
| 32 | 119.0 | 60.0 | 59.0 | 26 | 25 | 65 | 1 1/2 | 2.9 | 32,93 x 3,53 | 748.410.008 |
| 40 | 126.0 | 63.0 | 63.0 | 26 | 25 | 79 | 2 | 3.7 | 40,65 x 5,34 | 748.410.009 |
| 50 | 131.0 | 65.5 | 65.5 | 26 | 25 | 91 | 2 1/4 | 4.6 | 46,99 x 5,34 | 748.410.010 |
| 63 | 137.0 | 69.0 | 68.0 | 26 | 26 | 111 | 2 3/4 | 5.8 | 59,69 x 5,34 | 748.410.011 |
| 75 | 134.5 | 68.5 | 66.0 | 26 | 34 | 138 | S110x5 | 6.8 | 66,04 x 5,33 | 748.410.024 |
| 90 | 134.5 | 68.5 | 66.0 | 26 | 45 | 138 | S110x5 | 8.2 | 74,63 x 5,34 | 748.410.383 |
| 110 | 139.5 | 74.0 | 65.5 | 33 | 40 | 161 | S130x5 | 10.0 | 94,62 x 5,34 | 748.410.248 |

table continued on the next page




| d (mm) | O-Ring FKM |
|---|---|
| 20 | 749.410.006 |
| 25 | 749.410.007 |
| 32 | 749.410.008 |
| 40 | 749.410.009 |
| 50 | 749.410.010 |
| 63 | 749.410.011 |
| 75 | 749.410.024 |
| 90 | 749.410.383 |
| 110 | 749.410.248 |






### O-Ring Union EPDM/FKM

**Model:**

- For ecoFIT, PROGEF Std/Plus, SYGEF Std unions and adapter unions for butt fusion
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FKM minimum temperature -15°C

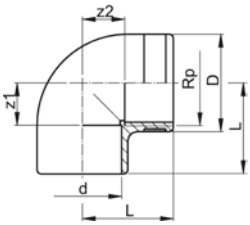
**Note:**

For the O-Rings of new unions as of 10/2022, see respective union datasheet

| d (mm) | DN (mm) | EPDM Code | Weight (kg) | FKM Code | D (mm) | D1 (mm) | D2 (mm) |
|---|---|---|---|---|---|---|---|
| 20 | 15 | **748 410 006** | 0.002 | **749 410 006** | 27.28 | 20.22 | 3.53 |
| 25 | 20 | **748 410 007** | 0.002 | **749 410 007** | 35.23 | 28.17 | 3.53 |
| 32 | 25 | **748 410 008** | 0.003 | **749 410 008** | 39.99 | 32.93 | 3.53 |
| 40 | 32 | **748 410 009** | 0.003 | **749 410 009** | 51.33 | 40.65 | 5.34 |
| 50 | 40 | **748 410 010** | 0.004 | **749 410 010** | 57.68 | 46.99 | 5.34 |
| 63 | 50 | **748 410 011** | 0.005 | **749 410 011** | 70.37 | 56.69 | 5.34 |
| 75 / 90 | 65 / 80 | **748 410 383** | 0.006 | **749 410 383** | 85.31 | 74.63 | 5.34 |
| 110 | 110 | **748 410 384** | 0.016 | **749 410 384** | 128.68 | 114.70 | 6.99 |

# Adaptor fittings for socket fusion





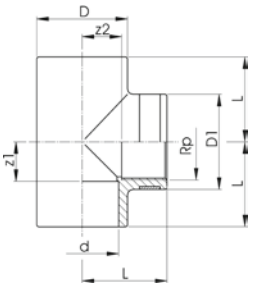

### PROGEF Standard Elbow 90° PN10 metric Rp

**Model:**

- Material: PP-H
- With fusion socket metric and parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (lb) | L (mm) | D (mm) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 20 | Rp | ½ | 10 | **727 100 206** | 0.049 | 28 | 30 | 14 | 14 |
| 25 | Rp | ¾ | 10 | **727 100 207** | 0.077 | 32 | 35 | 16 | 16 |
| 32 | Rp | 1 | 10 | **727 100 208** | 0.126 | 38 | 44 | 20 | 20 |
| 40 | Rp | 1 ¼ | 10 | **727 100 209** | 0.192 | 44 | 54 | 24 | 24 |





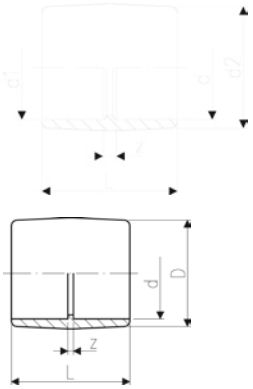

## PROGEF Standard Tee 90°
## PN10 metric Rp

**Model:**

- Material: PP-H
- Line, with fusion socket metric
- Branch, with BSP parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | L (mm) | D (mm) | D1 (mm) | z1 (mm) | z2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 20 | Rp | ½ | 10 | **727 200 206** | 0.030 | 28 | 31 | 30 | 14 | 14 |
| 25 | Rp | ¾ | 10 | **727 200 207** | 0.042 | 32 | 36 | 35 | 16 | 16 |
| 32 | Rp | 1 | 10 | **727 200 208** | 0.071 | 38 | 44 | 45 | 20 | 20 |
| 40 | Rp | 1 ¼ | 10 | **727 200 209** | 0.107 | 44 | 54 | 55 | 24 | 24 |





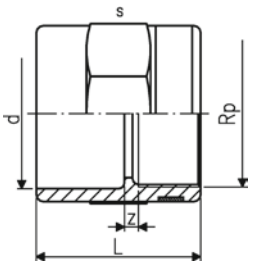

## PROGEF Standard Adaptor socket
## PN10 Metric Inch BS

**Model:**

- Material: PP-H
- With fusion socket metric and BS Inch (ASTM)

| d (mm) | d1 (inch) | PN (bar) | Code | Weight (kg) | L (mm) | d2 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ½ | 10 | **727 913 006** | 0.014 | 35 | 31 | 7 |
| 25 | ¾ | 10 | **727 913 007** | 0.019 | 39 | 36 | 7 |
| 32 | 1 | 10 | **727 913 008** | 0.025 | 43 | 44 | 7 |
| 40 | 1 ¼ | 10 | **727 913 009** | 0.040 | 48 | 54 | 8 |
| 50 | 1 ½ | 10 | **727 913 010** | 0.074 | 54 | 66 | 8 |
| 63 | 2 | 10 | **727 913 011** | 0.130 | 62 | 82 | 8 |
| 90 | 3 | 10 | **727 913 013** | 0.234 | 81 | 112 | 10 |
| 110 | 4 | 10 | **727 913 014** | 0.389 | 96 | 134 | 12 |





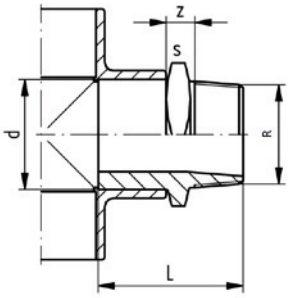

## PROGEF Standard Adaptor socket
## PN10 Metric Rp

**Model:**

- Material: PP-H
- With fusion socket metric and parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | L (mm) | s (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | Rp | ⅜ | 10 | **727 910 205** | 0.017 | 35 | 32 | 7 |
| 20 | Rp | ½ | 10 | **727 910 206** | 0.018 | 40 | 32 | 7 |
| 25 | Rp | ¾ | 10 | **727 910 207** | 0.025 | 42 | 36 | 7 |
| 32 | Rp | 1 | 10 | **727 910 208** | 0.040 | 48 | 46 | 7 |
| 40 | Rp | 1 ¼ | 10 | **727 910 209** | 0.064 | 53 | 55 | 7 |
| 50 | Rp | 1 ½ | 10 | **727 910 210** | 0.089 | 54 | 65 | 9 |
| 63 | Rp | 2 | 10 | **727 910 211** | 0.144 | 62 | 80 | 9 |





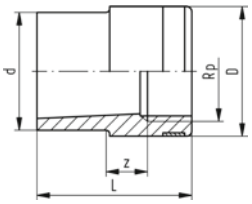

## PROGEF Standard Adaptor nipple
## PN10 Metric R

**Model:**

- Material: PP-H
- With fusion spigot metric and R tapered male thread
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | L (mm) | s (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| 16 | R | ⅜ | 10 | **727 910 505** | 0.008 | 37 | 27 | 13 |
| 20 | R | ½ | 10 | **727 910 506** | 0.011 | 42 | 32 | 13 |
| 25 | R | ¾ | 10 | **727 910 507** | 0.015 | 46 | 36 | 13 |
| 32 | R | 1 | 10 | **727 910 508** | 0.027 | 52 | 46 | 12 |
| 40 | R | 1 ¼ | 10 | **727 910 509** | 0.040 | 56 | 55 | 14 |
| 50 | R | 1 ½ | 10 | **727 910 510** | 0.061 | 60 | 65 | 15 |
| 63 | R | 2 | 10 | **727 910 511** | 0.100 | 69 | 80 | 16 |





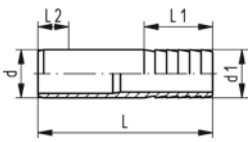

## PROGEF Standard Reducing bush
## PN10 metric Rp

**Model:**

- Material: PP-H
- With fusion spigot metric and BSP parallel female thread, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

| d (mm) | Thread Type | Size (inch) | PN (bar) | Code | Weight (kg) | L (mm) | z (mm) |
|---|---|---|---|---|---|---|---|
| 20 | Rp | ¼ | 10 | **727 910 433** | 0.011 | 36 | 7 |
| 20 | Rp | ⅜ | 10 | **727 910 434** | 0.011 | 36 | 7 |
| 25 | Rp | ½ | 10 | **727 910 437** | 0.015 | 45 | 6 |
| 32 | Rp | ¾ | 10 | **727 910 441** | 0.022 | 47 | 8 |
| 40 | Rp | 1 | 10 | **727 910 446** | 0.039 | 53 | 9 |
| 50 | Rp | 1 ¼ | 10 | **727 910 452** | 0.061 | 55 | 10 |






## PROGEF Standard Hose connector
## PN10 Metric

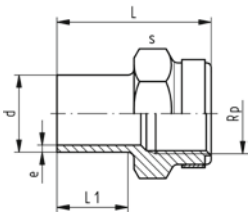
**Model:**

- Material: PP-H
- With socket fusion spigot metric and parallel hose connection

| d (mm) | d1 (mm) | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) |
|---|---|---|---|---|---|---|---|
| 20 | 20 | 10 | **727 960 406** | 0.008 | 78 | 27 | 14 |
| 25 | 25 | 10 | **727 960 407** | 0.014 | 91 | 36 | 16 |
| 32 | 32 | 10 | **727 960 408** | 0.025 | 100 | 36 | 18 |
| 40 | 40 | 10 | **727 960 409** | 0.038 | 104 | 42 | 20 |
| 50 | 50 | 10 | **727 960 610** | 0.061 | 113 | 48 | 23 |
| 63 | 60 | 10 | **727 960 611** | 0.084 | 147 | 50 | 27 |

# Adaptor fittings for butt fusion





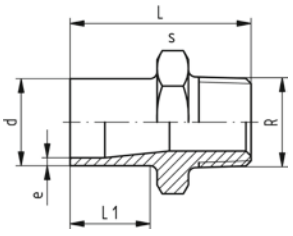

## PROGEF Standard Adaptor socket
## Metric Rp SDR11 (PN10)

**Model:**

- Material: PP-H
- With butt fusion spigot **SDR11** and BSP parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

| d (mm) | Thread Type | Size (inch) | PN (bar) | SDR | FM | Code | Weight (kg) | L (mm) | L1 (mm) | s (mm) | e (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | Rp | ½ | 10 | 11 | IR | **727 910 266** | 0.017 | 49 | 23 | 32 | 1.9 |
| 25 | Rp | ¾ | 10 | 11 | IR | **727 910 267** | 0.022 | 50 | 23 | 36 | 2.3 |
| 32 | Rp | 1 | 10 | 11 | IR | **727 910 268** | 0.038 | 54 | 23 | 46 | 2.9 |
| 40 | Rp | 1 ¼ | 10 | 11 | IR | **727 910 269** | 0.066 | 56 | 23 | 55 | 3.7 |
| 50 | Rp | 1 ½ | 10 | 11 | IR | **727 910 270** | 0.090 | 60 | 23 | 65 | 4.6 |
| 63 | Rp | 2 | 10 | 11 | IR | **727 910 271** | 0.123 | 62 | 23 | 80 | 5.8 |





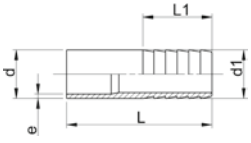

## PROGEF Standard Adaptor nipple
## Metric R SDR11 (PN10)

**Model:**

- Material: PP-H
- With butt fusion spigot and BSP tapered male thread
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

| d (mm) | Thread Type | Size (inch) | PN (bar) | SDR | FM | Code | Weight (kg) | L (mm) | L1 (mm) | s (mm) | e (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | R | ½ | 10 | 11 | IR | **727 910 556** | 0.013 | 51 | 23 | 32 | 1.9 |
| 25 | R | ¾ | 10 | 11 | IR | **727 910 557** | 0.014 | 52 | 23 | 36 | 2.3 |
| 32 | R | 1 | 10 | 11 | IR | **727 910 558** | 0.027 | 55 | 23 | 46 | 2.9 |
| 40 | R | 1 ¼ | 10 | 11 | IR | **727 910 559** | 0.041 | 58 | 23 | 55 | 3.7 |
| 50 | R | 1 ½ | 10 | 11 | IR | **727 910 560** | 0.062 | 60 | 23 | 65 | 4.6 |
| 63 | R | 2 | 10 | 11 | IR | **727 910 561** | 0.096 | 67 | 26 | 80 | 5.8 |



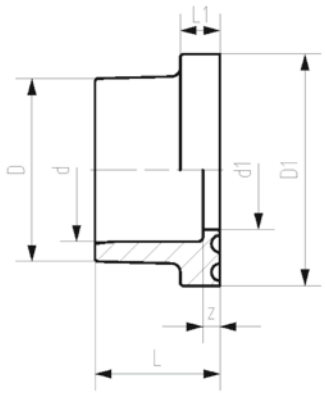



## PROGEF Standard Hose Connector
## Metric SDR11 (PN10)

| d (mm) | PN (bar) | SDR | d1 (mm) | FM | Code | Weight (kg) | L (mm) | L1 (mm) | e (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 20 | 10 | 11 | 20 | IR | **727 968 606** | 0.007 | 64 | 27 | 1.9 |
| 25 | 10 | 11 | 25 | IR | **727 968 607** | 0.014 | 75 | 36 | 2.3 |
| 32 | 10 | 11 | 32 | IR | **727 968 608** | 0.022 | 82 | 36 | 2.9 |
| 40 | 10 | 11 | 40 | IR | **727 968 609** | 0.032 | 84 | 42 | 3.7 |
| 50 | 10 | 11 | 50 | IR | **727 968 810** | 0.053 | 90 | 48 | 4.6 |
| 63 | 10 | 11 | 60 | IR | **727 968 811** | 0.088 | 119 | 50 | 5.8 |

# Socket fusion flange adaptor





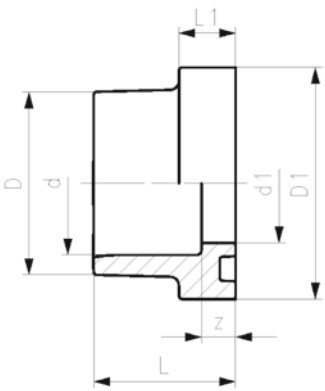

## PROGEF Standard Flange adaptor
## PN10 Jointing face flat/serrated

**Model:**

- Material: PP-H
- Connection: according to EN ISO 15494-1
- Counterpart: flange adaptor flat/serrated or with O-ring groove
- Flanges: PP - steel, No. 27 70 02, PP-V, No. 27 70 04
- ANSI: profile flange gasket EPDM No. 48 44 05, FKM No. 49 44 05
- ISO: profile flange gasket EPDM No. 48 44 07, FKM No. 49 44 07

| d (mm) | DN (mm) | Standard | PN (bar) | Code | Weight (kg) | L (mm) | L1 (mm) | D (mm) | D1 (mm) | d1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 15 | Metric/ANSI | 10 | **727 790 206** | 0.011 | 19 | 7 | 27 | 45 | 16 | 5 |
| 25 | 20 | Metric | 10 | **727 790 207** | 0.022 | 21 | 9 | 33 | 58 | 21 | 5 |
| 25 | | ANSI | 10 | **727 790 257** | 0.018 | 21 | 7 | 33 | 54 | 21 | 5 |
| 32 | 25 | Metric | 10 | **727 790 208** | 0.033 | 23 | 10 | 41 | 68 | 28 | 5 |
| 32 | | ANSI | 10 | **727 790 258** | 0.026 | 23 | 7 | 41 | 63 | 28 | 5 |
| 40 | 32 | Metric | 10 | **727 790 209** | 0.046 | 25 | 11 | 50 | 78 | 36 | 5 |
| 40 | | ANSI | 10 | **727 790 259** | 0.041 | 25 | 8 | 50 | 73 | 36 | 5 |
| 50 | 40 | Metric | 10 | **727 790 210** | 0.060 | 28 | 12 | 61 | 88 | 45 | 5 |
| 50 | | ANSI | 10 | **727 790 260** | 0.055 | 28 | 8 | 61 | 82 | 45 | 5 |
| 63 | 50 | Metric/ANSI | 10 | **727 790 211** | 0.090 | 32 | 14 | 76 | 102 | 57 | 5 |
| 75 | 65 | Metric/ANSI | 10 | **727 790 212** | 0.155 | 36 | 16 | 90 | 122 | 69 | 5 |
| 90 | 80 | Metric | 10 | **727 790 213** | 0.204 | 42 | 17 | 108 | 138 | 84 | 7 |
| 90 | | ANSI | 10 | **727 790 263** | 0.189 | 36 | 16 | 108 | 133 | 84 | 5 |
| 110 | 100 | Metric/ANSI | 10 | **727 790 214** | 0.286 | 48 | 18 | 131 | 158 | 100 | 7 |






## PROGEF Standard Flange adaptor
## PN10 Jointing face with o-ring groove

**Model:**

- Material: PP-H
- Counterpart: flange adaptor flat/serrated, No. 27 79 02
- Flanges: PP - steel, No. 27 70 02 (mm) or No. 27 70 12 (ANSI), PP-V, No. 27 70 04
- Gasket: O-ring EPDM No. 48 41 01, FKM No. 49 41 01

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | D (mm) | D1 (mm) | d1 (mm) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 15 | 10 | **727 810 106** | 0.007 | 27 | 34 | 16 | 22 | 9 | 8 |
| 25 | 20 | 10 | **727 810 107** | 0.012 | 33 | 41 | 21 | 24 | 10 | 8 |
| 32 | 25 | 10 | **727 810 108** | 0.018 | 41 | 50 | 28 | 26 | 10 | 8 |
| 40 | 32 | 10 | **727 810 109** | 0.027 | 50 | 61 | 36 | 30 | 13 | 10 |
| 50 | 40 | 10 | **727 810 110** | 0.043 | 61 | 73 | 45 | 33 | 13 | 10 |
| 63 | 50 | 10 | **727 810 111** | 0.070 | 76 | 90 | 57 | 37 | 14 | 10 |
| 75 | 65 | 10 | **727 810 112** | 0.105 | 90 | 106 | 69 | 40 | 15 | 10 |
| 90 | 80 | 10 | **727 810 113** | 0.170 | 108 | 125 | 84 | 47 | 16 | 12 |
| 110 | 100 | 10 | **727 810 114** | 0.263 | 131 | 150 | 100 | 55 | 18 | 13 |

# SeaDrain® White



## Your benefits

+ Noise-insulating
+ Full flow design
+ Elasticity to follow building shape
+ Flexibility helps where space is limited
+ Cost-effective prefabricated solutions
+ One system from point of entry to lap
+ Excellent pressure and temperature resistant
+ Complete system in one pipe material
+ Simplicity with electro fusion fittings

## Technical data

**Materials**
PB, DZR brass

**Dimensions range**
d16 mm – d315 mm

**Jointing technology**
Electro fusion, socket fusion, butt fusion, compression joints

**Operating pressure**
Up to 16 bar

**Operating temperature**
–10°C to 95°C

The value above listed are to be considered for water, in case of use chemical addition it is always recommended to contact GF specialist to an individual and more detailed assessment.

# SeaDrain® White



SeaDrain® White has excellent chemical and physical properties to make the system ideal for handling corrosive chemical waste solutions present in laboratory and industrial DWV applications. Fuseal is suitable for use in the ship building industries as well as in areas where mixtures of acids, bases, and solvents are drained.

The SeaDrain® White piping system's polypropylene PPFR compound (FR=flame retardant) yields a combination of high chemical resistance, toughness and high strength at elevated temperatures which is ideal for a wide range of conditions including corrosive chemical waste solutions. SeaDrain™ is also suitable for use in black and grey water sanitary drains as cabins , galleys and laundries etc., scuppers and discharges (overboard), sounding air and venting of water tanks / dry spaces, vent pipes etc.

The MSA 250SE power unit features barcode operation, multiple joint and advanced transformer technology.
The Fuseal II fusion collar (1 1/2“ to 6“) provides simple insertion of pipe without coil removal.

## Advantages of SeaDrain® White

- High thermal ageing and thermal forming resistance
- Low creep elongation
- Handles corrosive drainage fluids up to 180°F( 80°C) for short intervals up to 210°F (approx. 100°C)
- Non-essential and non-pressure drainage system rated to 1.76 bars (25 %)
- full vacuum
- No corrosion
- Conforms to the ASTM F-1412 standard specifications for polyolefine pipe and fittings for corrosive waste drainage system
- The piping system is not tested with respect to Fire Endurance
- Tested to Low Flame Spread acc. ASTM D635.
- High stress fracture resistance
- Easy installation (electrofusion)
- Long service life
- Pipe and fitting size dimensions range from 1 1/2“ to 6“ (bigger on request)

### Application for Ship Building

- Grey and black water
- scuppers and discharges (overboard), sounding air and venting of water tanks / dry spaces, vent pipes etc.

### Dimension range

- 11/2“ to 6“ (bigger size on request)

### Temperature range

0°C to +80°C (short term 100°C)

# Technical data

### Material
- Color: bright white
- Schedule 40 PPFR
- Up to 10-year UV protection
- Laser print stream (non-color)

### Size range and fusion types
- 1½" IPS (DN40) – Electrofusion / Fast-Lock
- 2" IPS (DN50) – Electrofusion / Fast-Lock
- 2½" IPS (DN65) – Electrofusion / Fast-Lock
- 3" IPS (DN80) – Electrofusion / Fast-Lock
- 4" IPS (DN100) – Electrofusion / Fast-Lock
- 6" IPS (DN160) – Electrofusion

### Temperature rating
- Constant temperature: 180°F (82°C)
- Intermittent temperature: 212°F (100°C)

### Pressure / Vacuum rating
- Long-Term Burst: 36 psi (2.5 bar)
- Short-Term Burst: 58 psi (4.0 bar)
- Vacuum: –29 psi (–2.0 bar)

### Standards
- ASTM D635 (HB)
- ASTM F1412
- USPH (with electrofusion joining)

### Weight comparison

| | Stainless steel black and grey water | | SeaDrain White | |
|---|---|---|---|---|
| **Size** | **lb / ft** | **kg / m** | **lb / ft** | **kg / m** |
| **1½" IPS (DN40)** | 0.8 | 1.3 | 0.3 | 0.5 |
| **2" IPS (DN50)** | 1.1 | 1.6 | 0.4 | 0.7 |
| **2½" IPS (DN65)** | 1.3 | 1.9 | 0.7 | 1.0 |
| **3" IPS (DN80)** | 1.4 | 2.2 | 0.9 | 1.4 |
| **4" IPS (DN100)** | 1.9 | 2.9 | 1.3 | 1.9 |
| **6" IPS (DN150)** | 3.7 | 5.5 | 2.3 | 3.4 |

### Maximum horizontal support hanger comparison

| | Other plastic black and grey water | | SeaDrain White | |
|---|---|---|---|---|
| **Size** | **(ft)** | **(m)** | **(ft)** | **(m)** |
| **1½" IPS (DN40)** | 1.6 | 0.5 | 6.6 | 2.0 |
| **2" IPS (DN50)** | 2.1 | 0.6 | 6.6 | 2.0 |
| **2½" IPS (DN65)** | 2.5 | 0.8 | 6.6 | 2.0 |
| **3" IPS (DN80)** | 3 | 0.9 | 8.2 | 2.5 |
| **4" IPS (DN100)** | 3.6 | 1.1 | 8.2 | 2.5 |
| **6" IPS (DN150)** | 5.2 | 1.6 | 9.8 | 3.0 |



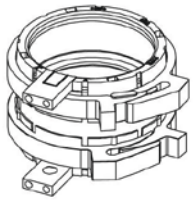
Option 1: Jointing by electrofusion



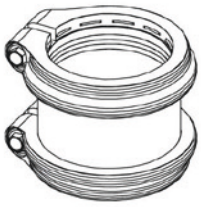
Option 2: Fast-lock mechanical joining

# Fitting Guide

### Coupling (S x S) / Sleeve Coupling (S x S)

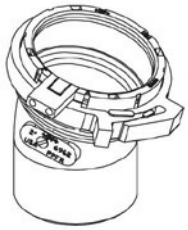


Electrofusion



Fast-Lock

### Bend 15° (1/24) - Street (S x SPG)



Electrofusion



Fast-Lock

### Bend 30° (1/12) - Street (S x SPG)



Electrofusion



Fast-Lock

### Bend 45° (1/8) (S x S)



Electrofusion

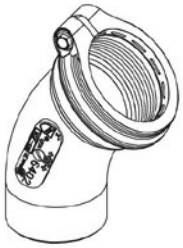


Fast-Lock

### Bend 45° (1/8) - Street (S x SPG)

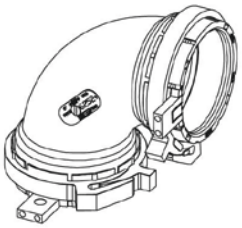


Electrofusion

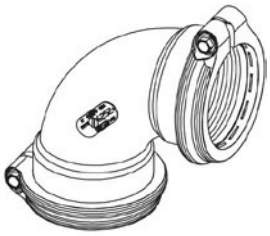


Fast-Lock

### Bend 88.8° (1/4) (S x S)

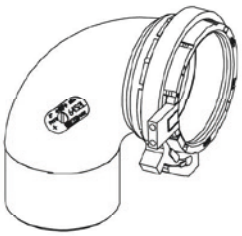


Electrofusion

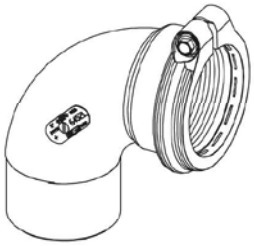


Fast-Lock

### Bend 88.8° (1/4) - Street (S x SPG)

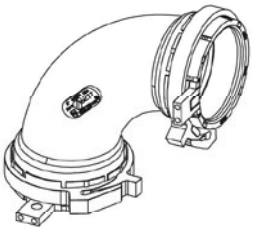


Electrofusion

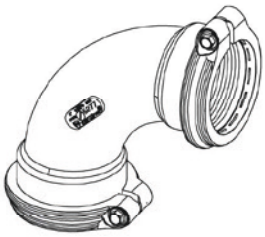


Fast-Lock

### Bend 88.8° (1/4) - Long Sweep (S x S)



Electrofusion



Fast-Lock

### Bend 88.8° (1/4) - Long Sweep Steet (S x SPG)

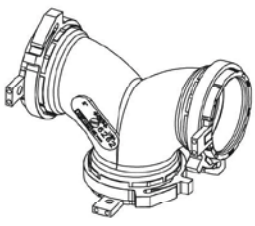


Electrofusion

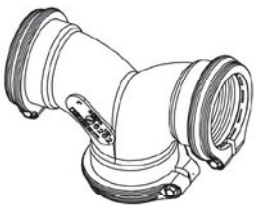


Fast-Lock

### Bend 3-Way 88.8° (1/4) (S x S x S)



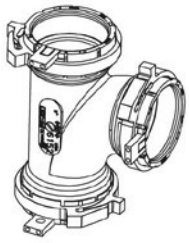
Electrofusion



Fast-Lock

# Fitting Guide (continued)

### Branch Tee 88.8° (S x S x S)

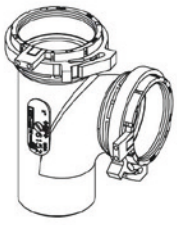


Electrofusion



Fast-Lock

### Branch Tee 88.8° - Street (S x S x SPG)

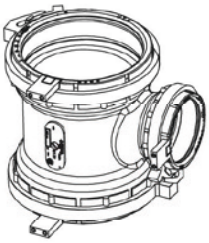


Electrofusion

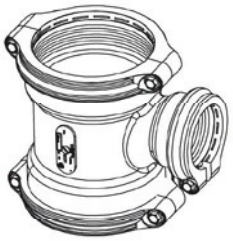


Fast-Lock

### Reducing Branch Tee 88.8° (S x S x S)



Electrofusion



Fast-Lock

### Reducing Branch Tee 88.8° - Street (S x S x SPG)

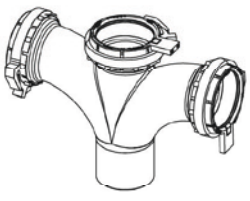


Electrofusion

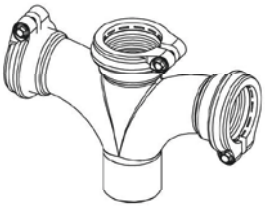


Fast-Lock

### Double Reducing Branch Tee 88.8° - Street (S x S x S x SPG)

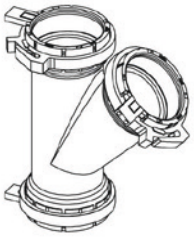


Electrofusion



Fast-Lock

### Branch Wye 45° (S x S x S)

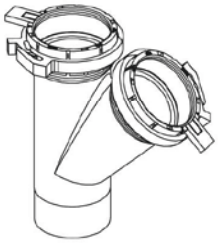


Electrofusion



Fast-Lock

### Branch Wye 45° - Street (S x S x SPG)



Electrofusion



Fast-Lock

### Reducing Branch Wye 45° - Street (S x S x SPG)

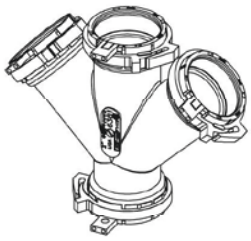


Electrofusion



Fast-Lock

### Double Branch Wye 45° (S x S x S x S)

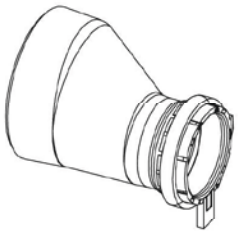


Electrofusion



Fast-Lock

### Eccentric Pipe Increaser - Street (SPG x S)



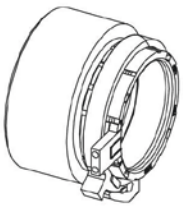
Electrofusion



Fast-Lock

# Fitting Guide (continued)

### Reducing Bushing - Street (SPG x S)

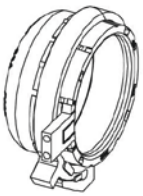


Electrofusion

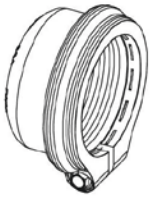


Fast-Lock

### Cap (S)

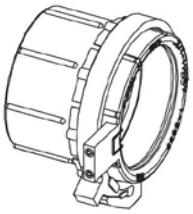


Electrofusion

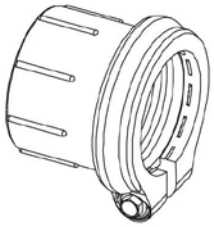


Fast-Lock

### Female Adapter (S x FPT) / Female Adapter (S x BSP)

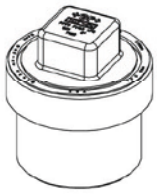


Electrofusion



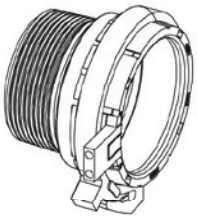
Fast-Lock

### Cleanout Adapter with Plug - Street (SPG x FT)

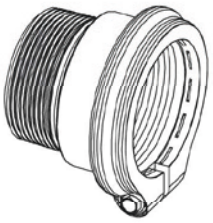


Spigot

### Male Adapter (S x FPT) / Male Adapter (S x BSP)

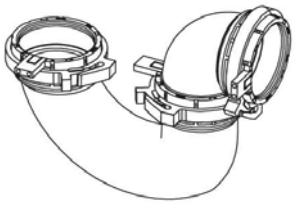


Electrofusion

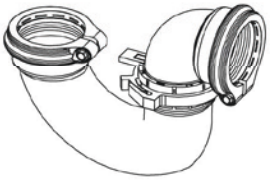


Fast-Lock

### P-Trap (S x S)

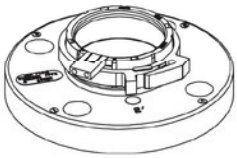


Electrofusion

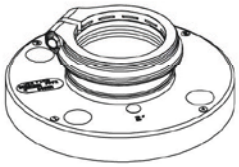


Fast-Lock

### Flange - V.S. ANSI 150lb (S) / Flange - V.S. DIN (PN10) (S)

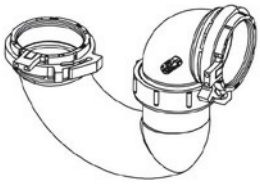


Electrofusion

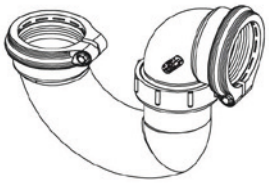


Fast-Lock

### P-Trap with Union Connection (S x S)

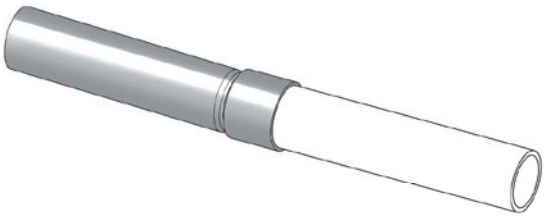


Electrofusion



Fast-Lock

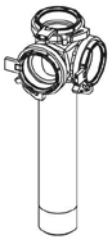
### Metal Transition Fitting (Weld x SPG)



Spigot

# Fitting Guide (continued)

### Double Branch Tee 90° Corner Connector - Street (S x S x S x SPG)



Electrofusion



Fast-Lock

### Double Branch Tee 135° Corner Connector - Street (S x S x S x SPG)

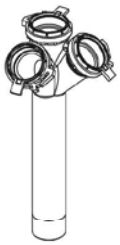


Electrofusion

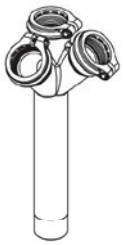


Fast-Lock

### Double Branch Wye 90° Corner Connector - Street (S x S x S x SPG)



Electrofusion



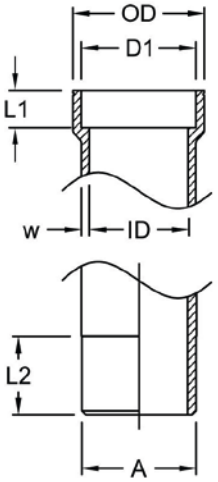
Fast-Lock

### Drain Scupper (S)



Open Deck

# Socket / Spigot Dimensions




### Socket / Spigot Dimensions (inches)

| Nom. (inch) | OD (inch) | D1 (inch) | ID (inch) | W (inch) | L1 (inch) | L2 (inch) | A (inch) |
|---|---|---|---|---|---|---|---|
| 1½" | 2.2 | 1.9 | 1.5 | 0.14 | 0.76 | 0.88 | 1.90 |
| 2" | 2.7 | 2.4 | 1.9 | 0.15 | 0.88 | 1.00 | 2.38 |
| 2½" | 3.3 | 2.9 | 2.5 | 0.20 | 0.88 | 1.00 | 2.88 |
| 3" | 4.0 | 3.5 | 2.8 | 0.22 | 0.88 | 1.06 | 3.50 |
| 4" | 5.0 | 4.5 | 3.7 | 0.24 | 0.88 | 1.06 | 4.50 |
| 6" | 7.2 | 6.6 | 5.6 | 0.28 | 1.26 | 1.38 | 6.63 |

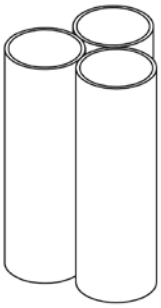
### Socket / Spigot Dimensions (mm)

| Nom. (DN) | OD (mm) | D1 (mm) | ID (mm) | W (mm) | L1 (mm) | L2 (mm) | A (mm) |
|---|---|---|---|---|---|---|---|
| 40 | 55.9 | 48.3 | 38.1 | 3.6 | 19.3 | 22.4 | 48.3 |
| 50 | 68.6 | 61.0 | 48.3 | 3.8 | 22.4 | 25.4 | 60.5 |
| 65 | 83.8 | 73.7 | 63.5 | 5.1 | 22.4 | 25.4 | 73.2 |
| 80 | 101.6 | 88.9 | 71.1 | 5.6 | 22.4 | 26.9 | 88.9 |
| 100 | 127.0 | 114.3 | 94.0 | 6.1 | 22.4 | 26.9 | 114.3 |
| 150 | 182.9 | 167.6 | 142.2 | 7.1 | 32.0 | 35.1 | 168.4 |

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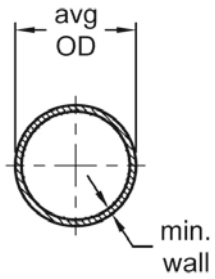

| | |
|---|---|
| Pipe | 484 |
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# Pipe

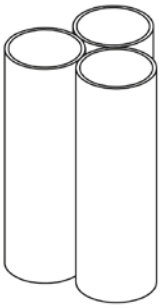


## SeaDrain Schedule 40 Pipe White 10 Ft. Length

| Size (inch) | DN (mm) | lengths ( ft) | Code | Weight (lbs/ft) |
|---|---|---|---|---|
| 1 ½ | 40 | 10 | **373 013 015** | 0.330 |
| 2 | 50 | 10 | **373 013 020** | 0.440 |
| 2 ½ | 65 | 10 | **373 013 025** | 0.700 |
| 3 | 80 | 10 | **373 013 030** | 0.910 |
| 4 | 100 | 10 | **373 013 040** | 1.300 |
| 6 | 150 | 10 | **373 013 060** | 2.280 |

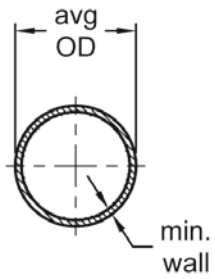



| Lift Qty. (10ft Lgths) ( ft) | avg. od (inch) | min. wall (inch) | avg. od (mm) | min. wall (mm) |
|---|---|---|---|---|
| 2940 | 1.900 | 0.145 | 48.3 | 3.7 |
| 1760 | 2.375 | 0.154 | 60.3 | 3.9 |
| 1260 | 2.875 | 0.203 | 73.0 | 5.2 |
| 580 | 3.500 | 0.216 | 88.9 | 5.5 |
| 430 | 4.500 | 0.237 | 114.3 | 6.0 |
| 170 | 6.625 | 0.280 | 168.3 | 7.1 |



## SeaDrain Schedule 40 Pipe White 20 Ft. Length

| Size (inch) | DN (mm) | lengths ( ft) | Code | Weight (lbs/ft) |
|---|---|---|---|---|
| 1 ½ | 40 | 20 | **373 023 015** | 0.330 |
| 2 | 50 | 20 | **373 023 020** | 0.440 |
| 2 ½ | 65 | 20 | **373 023 025** | 0.700 |
| 3 | 80 | 20 | **373 023 030** | 0.910 |
| 4 | 100 | 20 | **373 023 040** | 1.300 |
| 6 | 150 | 20 | **373 023 060** | 2.280 |



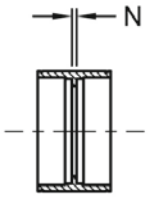

| Lift Qty. (20ft Lgths) ( ft) | avg. od (inch) | min. wall (inch) | avg. od (mm) | min. wall (mm) |
|---|---|---|---|---|
| 5880 | 1.900 | 0.145 | 48.3 | 3.7 |
| 3520 | 2.375 | 0.154 | 60.3 | 3.9 |
| 2520 | 2.875 | 0.203 | 73.0 | 5.2 |
| 1480 | 3.500 | 0.216 | 88.9 | 5.5 |
| 860 | 4.500 | 0.237 | 114.3 | 6.0 |
| 340 | 6.625 | 0.280 | 168.3 | 7.1 |

# Couplers and Sockets

## SeaDrain Coupling (SxS)



| Size (inch) | DN (mm) | Electrofusion Code | Weight (lb) | Fast-Lock Code | N (inch) | N (mm) |
|---|---|---|---|---|---|---|
| 1 ½ | 40 | **373 170 001** | 0.251 | **377 170 001** | 0.06 | 1.5 |
| 2 | 50 | **373 170 002** | 0.179 | **377 170 002** | 0.06 | 1.5 |
| 2 ½ | 65 | **373 170 025** | 0.254 | **377 170 025** | 0.13 | 3.3 |
| 3 | 80 | **373 170 003** | 0.363 | **377 170 003** | 0.13 | 3.3 |
| 4 | 100 | **373 170 004** | 0.915 | **377 170 004** | 0.13 | 3.3 |
| 6 | 150 | **373 170 006** | 1.200 | | 0.19 | 4.8 |

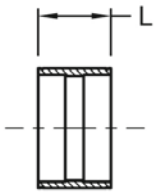



## SeaDrain Sleeve Coupling (SxS)

4" en 6" overschuifkoppelingen alleen in combinatie met metalen klemmen



| Size (inch) | DN (mm) | Electrofusion Code | Weight (lb) | L (inch) | L (mm) |
|---|---|---|---|---|---|
| 2 | 50 | **373 170 402** | 0.315 | 1.81 | 46 |
| 1 ½ | 40 | **373 170 401** | 0.251 | 1.56 | 40 |
| 2 ½ | 65 | **373 170 425** | 0.246 | 2.01 | 51 |
| 3 | 80 | **373 170 403** | 0.362 | 2.00 | 51 |
| 4 | 100 | **373 170 404** | 0.462 | 2.00 | 51 |
| 6 | 150 | **373 170 406** | 1.200 | 2.69 | 68 |

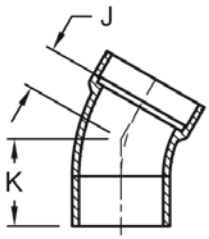


# Bends and Elbows

## SeaDrain 1/12 Bend Street (SxSPG) 30°



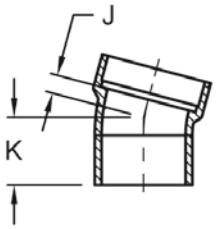
| Size (inch) | DN (mm) | elektrolassen Code | Fast-Lock Code | Weight (lb) | J (inch) | K (inch) | BC (mm) | K (mm) |
|---|---|---|---|---|---|---|---|---|
| 1 ½ | 40 | **373 164 601** | **377 164 601** | 0.198 | 0.75 | 2.03 | 19 | 51 |
| 2 | 50 | **373 164 602** | **377 164 602** | 0.283 | 0.88 | 2.26 | 22 | 57 |
| 2 ½ | 65 | **373 164 625** | **377 164 625** | 0.536 | 1.08 | 2.56 | 27 | 65 |
| 3 | 80 | **373 164 603** | **377 164 603** | 0.689 | 1.25 | 2.81 | 32 | 71 |
| 4 | 100 | **373 164 604** | **377 164 604** | 0.919 | 1.50 | 3.01 | 38 | 76 |




## SeaDrain 1/24 Bend Street (SxSPG) 15°



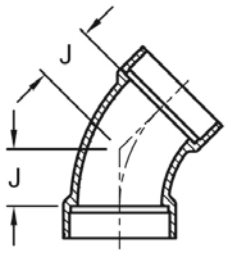
| Size (inch) | DN (mm) | elektrolassen Code | Fast-Lock Code | Weight (lb) | J (inch) | K (inch) | J (mm) | K (mm) |
|---|---|---|---|---|---|---|---|---|
| 1 ½ | 40 | **373 169 601** | **377 169 601** | 0.199 | 0.62 | 1.66 | 16 | 42 |
| 2 | 50 | **373 169 602** | **377 169 602** | 0.257 | 0.63 | 1.75 | 16 | 52 |
| 2 ½ | 65 | **373 169 625** | **377 169 625** | 0.350 | 0.53 | 2.00 | 13 | 50 |
| 3 | 80 | **373 169 603** | **377 169 603** | 0.860 | 0.81 | 2.37 | 21 | 60 |
| 4 | 100 | **373 169 604** | **377 169 604** | 0.791 | 0.88 | 2.38 | 22 | 60 |



## SeaDrain 1/8 Bend (SxS) 45°



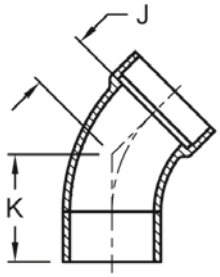
| Size (inch) | DN (mm) | elektrolassen Code | Weight (lb) | Fast-Lock Code | J (inch) | J (mm) |
|---|---|---|---|---|---|---|
| 1 ½ | 40 | **373 165 001** | 0.195 | **377 165 001** | 1.13 | 29 |
| 2 | 50 | **373 165 002** | 0.302 | **377 165 002** | 1.50 | 38 |
| 2 ½ | 65 | **373 165 025** | 0.427 | **377 165 025** | 1.68 | 43 |
| 3 | 80 | **373 165 003** | 0.960 | **377 165 003** | 1.75 | 44 |
| 4 | 100 | **373 165 004** | 1.398 | **377 165 004** | 2.19 | 56 |
| 6 | 150 | **373 165 006** | 1.600 | | 3.37 | 86 |



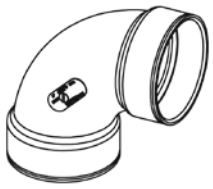

## SeaDrain 1/8 Bend Street (SxSPG) 45°



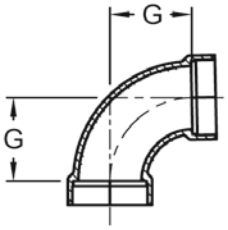
| Size (inch) | DN (mm) | Electrofusion Code | Weight (lb) | Fast-Lock Code | J (inch) | K (inch) | J (mm) | K (mm) |
|---|---|---|---|---|---|---|---|---|
| 1 ½ | 40 | **373 164 001** | 0.165 | **377 164 001** | 1.13 | 2.74 | 29 | 62 |
| 2 | 50 | **373 164 002** | 0.333 | **377 164 002** | 1.50 | 2.50 | 38 | 64 |
| 2 ½ | 65 | **373 164 025** | 0.702 | **377 164 025** | 1.68 | 3.15 | 43 | 80 |
| 3 | 80 | **373 164 003** | 0.595 | **377 164 003** | 1.75 | 3.40 | 44 | 83 |
| 4 | 100 | **373 164 004** | 0.935 | **377 164 004** | 2.19 | 4.01 | 56 | 83 |
| 6 | 150 | **373 164 006** | 2.367 | | 3.38 | 4.75 | 86 | 121 |



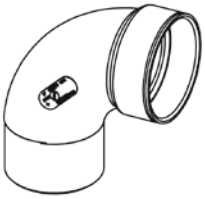
## SeaDrain 1/4 Bend (SxS) 88.8°



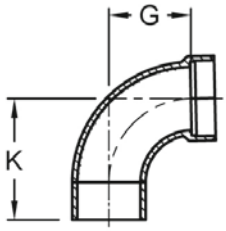
| Size (inch) | DN (mm) | elektrolassen Code | Weight (lb) | Fast-Lock Code | G (inch) | G (mm) |
|---|---|---|---|---|---|---|
| 1 ½ | 40 | **373 182 501** | 0.333 | **377 182 501** | 1.75 | 44 |
| 2 | 50 | **373 182 502** | 0.330 | **377 182 502** | 2.31 | 59 |
| 2 ½ | 65 | **373 182 525** | 0.539 | **377 182 525** | 3.21 | 82 |
| 3 | 80 | **373 182 503** | 0.794 | **377 182 503** | 3.06 | 78 |
| 4 | 100 | **373 182 504** | 1.200 | **377 182 504** | 3.88 | 99 |
| 6 | 150 | **373 182 506** | 2.460 | | 5.63 | 143 |



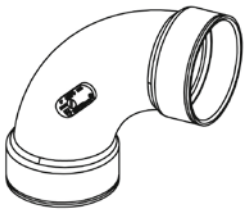

## SeaDrain 1/4 Bend Street (SxSPG) 88.8°



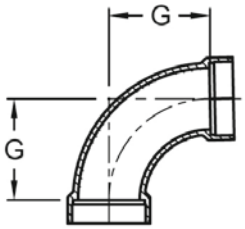
| Size (inch) | DN (mm) | Electrofusion Code | Weight (lb) | Fast-Lock Code | G (inch) | K (inch) | G (mm) | K (mm) |
|---|---|---|---|---|---|---|---|---|
| 1 ½ | 40 | **373 164 501** | 0.248 | **377 164 501** | 1.75 | 3.11 | 44 | 79 |
| 2 | 50 | **373 164 502** | 0.361 | **377 164 502** | 2.31 | 3.70 | 59 | 94 |
| 2 ½ | 65 | **373 164 525** | 0.445 | **377 164 525** | 3.21 | 4.75 | 82 | 121 |
| 3 | 80 | **373 164 503** | 0.885 | **377 164 503** | 3.06 | 4.75 | 78 | 121 |
| 4 | 100 | **373 164 504** | 1.182 | **377 164 504** | 3.88 | 5.38 | 99 | 137 |
| 6 | 150 | **373 164 506** | 3.049 | | 11.00 | 10.81 | 279 | 275 |



## SeaDrain 1/4 Bend Long Sweep (SxS) 88.8°



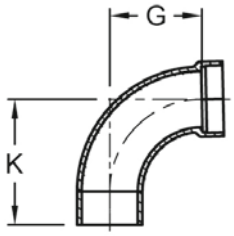
| Size (inch) | DN (mm) | elektrolassen Code | Fast-Lock Code | Weight (lb) | G (inch) | G (mm) |
|---|---|---|---|---|---|---|
| 1 ½ | 40 | **373 162 701** | **377 162 701** | 0.384 | 2.75 | 70 |
| 2 | 50 | **373 162 702** | **377 162 702** | 0.527 | 3.25 | 83 |
| 3 | 80 | **373 162 703** | **377 162 703** | 1.282 | 4.06 | 130 |
| 4 | 100 | **373 162 704** | **377 162 704** | 1.986 | 4.94 | 125 |



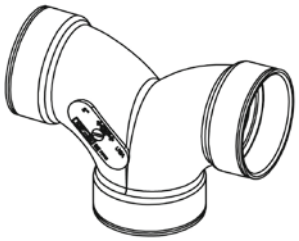

## SeaDrain 1/4 Bend Long Sweep Street (SxSPG) 88.8°

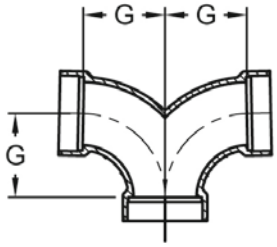


| Size (inch) | DN (mm) | Electrofusion Code | Fast-Lock Code | Weight (lb) | G (inch) | K (inch) | G (mm) | K (mm) |
|---|---|---|---|---|---|---|---|---|
| 1 ½ | 40 | **373 162 901** | **377 162 901** | 0.380 | 2.75 | 4.29 | 70 | 109 |
| 2 ½ | 65 | **373 162 925** | **377 162 925** | 0.908 | 4.00 | 5.53 | 102 | 140 |



### SeaDrain 3-way 1/4 Bend (SxSxS) 88.8°

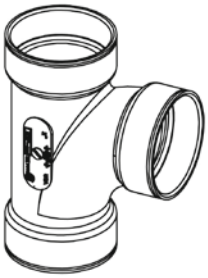


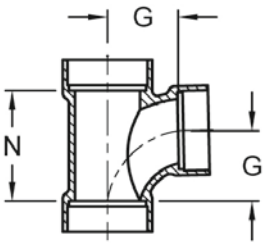



| Size (inch) | DN (mm) | elektrolassen Code | Fast-Lock Code | Weight (lb) | G (inch) | G (mm) |
|---|---|---|---|---|---|---|
| 1 ½ | 40 | **373 162 601** | **377 162 601** | 0.482 | 1.75 | 44 |
| 2 | 50 | **373 162 602** | **377 162 602** | 0.663 | 2.31 | 59 |

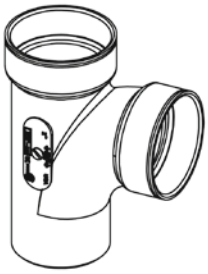
## Tees, Y-Pieces and Crosses

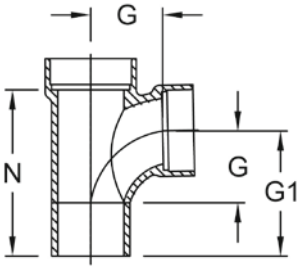
### Branch Tee 88.8° (SxSxS)





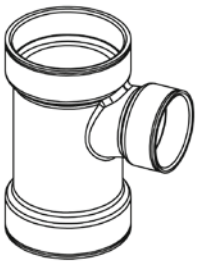

| Size (inch) | DN (mm) | Electrofusion Code | Fast-Lock Code | Weight (lb) | G (inch) | N (inch) | G (mm) | N (mm) |
|---|---|---|---|---|---|---|---|---|
| 1 ½ | 40 | **373 161 501** | **377 161 501** | 0.490 | 1.75 | 2.75 | 44 | 70 |
| 2 | 50 | **373 161 502** | **377 161 502** | 0.665 | 2.31 | 3.69 | 59 | 94 |
| 3 | 80 | **373 161 503** | **377 161 503** | 1.677 | 3.06 | 4.88 | 78 | 124 |
| 4 | 100 | **373 161 504** | **377 161 504** | 2.252 | 3.88 | 6.13 | 99 | 156 |

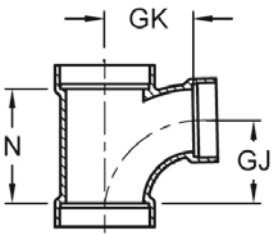





## Branch Tee 88.8° Street (SxSxSPG)

| Size (inch) | DN (mm) | Electrofusion Code | Weight (lb) | Fast-Lock Code | G (inch) | G1 (inch) | N (inch) | G (mm) | G1 (mm) | N (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 ½ | 40 | **373 161 601** | 0.265 | **377 161 601** | 1.75 | 3.05 | 4.05 | 65 | 77 | 101 |
| 2 ½ | 65 | **373 161 625** | 0.617 | **377 161 625** | 2.56 | 3.98 | 5.43 | 65 | 83 | 101 |
| 3 | 80 | **373 161 603** | 0.972 | **377 161 603** | 3.02 | 4.56 | 6.43 | 77 | 102 | 116 |
| 4 | 100 | **373 161 604** | 1.522 | **377 161 604** | 3.87 | 5.35 | 7.68 | 98 | 105 | 136 |

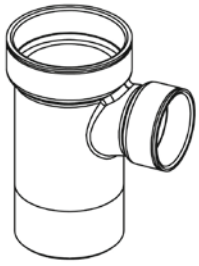


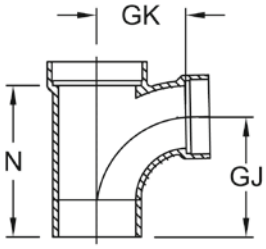



## Reducing Branch Tee 88.8° (SxSxS)

| Inch (inch) | DN (mm) | elektrolassen Code | Weight (lb) | Fast-Lock Code | GJ (inch) | GK (inch) | N (inch) | GJ (mm) | GK (mm) | N (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 x 1 1/2 | 50 x 40 | **373 161 530** | 0.391 | **377 161 530** | 1.96 | 2.21 | 3.17 | 50 | 56 | 81 |
| 3 x 1 1/2 | 80 x 40 | **373 161 531** | 1.019 | **377 161 531** | 1.75 | 2.56 | 2.68 | 44 | 65 | 68 |
| 3 x 2 | 80 x 50 | **373 161 532** | 1.173 | **377 161 532** | 2.13 | 2.88 | 3.31 | 54 | 73 | 84 |
| 4 x 2 | 100 x 50 | **373 161 534** | 1.464 | **377 161 534** | 2.06 | 3.31 | 3.19 | 52 | 84 | 81 |
| 4 x 3 | 100 x 80 | **373 161 535** | 1.853 | **377 161 535** | 3.00 | 3.56 | 4.75 | 76 | 90 | 121 |
| 6 x 4 | 150 x 100 | **373 161 539** | 2.340 | | 3.93 | 4.90 | 6.13 | 100 | 124 | 156 |

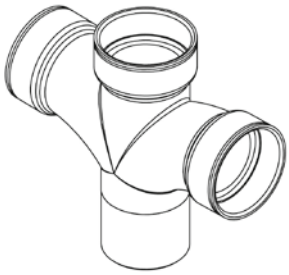
## Reducing Branch Tee 88.8° Street (SxSxSPG)

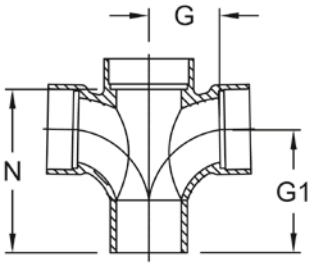





| Inch (inch) | DN (mm) | Electrofusion Code | Weight (lb) | Fast-Lock Code | GK (inch) | GJ (inch) | N (inch) | GK (mm) | GJ (mm) | N (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 1/2 x 1 1/2 | 65 x 40 | **373 161 628** | 0.556 | **377 161 628** | 2.56 | 3.98 | 5.49 | 65 | 101 | 139 |
| 3 x 1 1/2 | 80 x 40 | **373 161 631** | 0.623 | **377 161 631** | 3.02 | 3.25 | 4.19 | 77 | 83 | 106 |
| 3 x 2 1/2 | 80 x 65 | **373 161 629** | 0.819 | **377 161 629** | 3.02 | 4.00 | 5.54 | 77 | 102 | 141 |
| 4 x 1 1/2 | 100 x 40 | **373 161 633** | 0.927 | **377 161 633** | 3.87 | 4.12 | 5.03 | 98 | 105 | 128 |
| 4 x 2 1/2 | 100 x 65 | **373 161 627** | 1.090 | **377 161 627** | 3.87 | 4.00 | 5.61 | 98 | 102 | 142 |
| 4 x 3 | 100 x 80 | **373 161 635** | 1.263 | **377 161 635** | 3.87 | 4.50 | 6.37 | 98 | 114 | 162 |

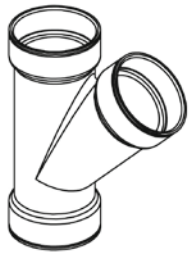
## Double Reducing Branch Tee 88.8° Street (SxSxSxSPG)



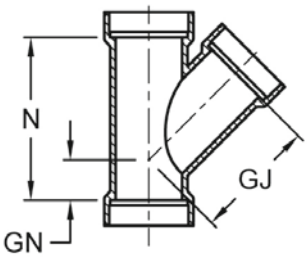



| Inch (inch) | DN (mm) | Electrofusion Code | Weight (lb) | Fast-Lock Code | G (inch) | N (inch) | G1 (inch) | G (mm) | N (mm) | G1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 1/2 x 1 1/2 | 40 x 40 | **373 161 701** | 0.420 | **377 161 701** | 3.00 | 4.74 | 4.00 | 76 | 120 | 102 |
| 2 1/2 x 1 1/2 | 65 x 40 | **373 161 728** | 0.650 | **377 161 728** | 3.00 | 4.56 | 3.50 | 76 | 116 | 89 |
| 4 x 1 1/2 | 100 x 40 | **373 161 733** | 3.020 | **377 161 733** | 3.00 | 5.56 | 3.50 | 76 | 141 | 89 |

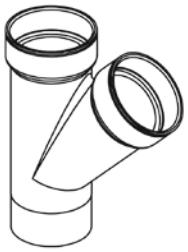
## Branch Wye 45° (SxSxS)



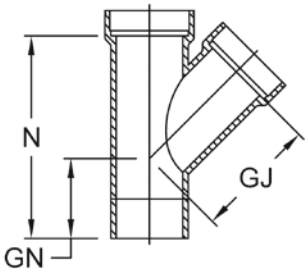
| Size (inch) | DN (mm) | elektrolassen Code | Weight (lb) | Fast-Lock Code | GJ (inch) | GN (inch) | N (inch) | GJ (mm) | GN (mm) | N (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 ½ | 40 | **373 163 001** | 0.352 | **377 163 001** | 2.88 | 1.13 | 4.00 | 73 | 29 | 102 |
| 2 | 50 | **373 163 002** | 0.758 | **377 163 002** | 3.63 | 1.38 | 5.00 | 92 | 35 | 127 |
| 3 | 80 | **373 163 003** | 1.672 | **377 163 003** | 5.00 | 1.63 | 6.63 | 127 | 41 | 168 |
| 4 | 100 | **373 163 004** | 2.522 | **377 163 004** | 6.38 | 1.88 | 8.25 | 162 | 48 | 210 |
| 6 | 150 | **373 163 006** | 2.900 | | 9.13 | 1.63 | 10.75 | 232 | 41 | 273 |

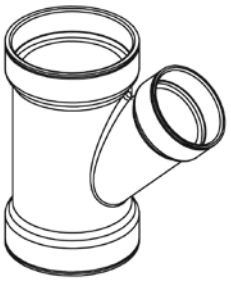



## Branch Wye 45° Street (SxSxSPG)



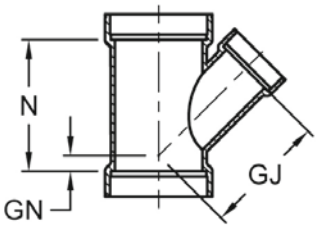
| Size (inch) | DN (mm) | Electrofusion Code | Weight (lb) | Fast-Lock Code | GJ (inch) | GN (inch) | N (inch) | GJ (mm) | GN (mm) | N (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 ½ | 40 | **373 163 101** | 0.306 | **377 163 101** | 2.88 | 2.43 | 5.30 | 73 | 62 | 135 |
| 2 ½ | 65 | **373 163 125** | 1.328 | **377 163 125** | 4.56 | 3.00 | 7.56 | 116 | 76 | 192 |
| 3 | 80 | **373 163 103** | 1.084 | **377 163 103** | 5.00 | 3.13 | 8.13 | 127 | 80 | 207 |
| 4 | 100 | **373 163 104** | 1.584 | **377 163 104** | 6.38 | 3.38 | 9.76 | 162 | 86 | 248 |
| 6 | 150 | **373 163 106** | 2.330 | | 9.13 | 3.12 | 12.23 | 232 | 79 | 311 |

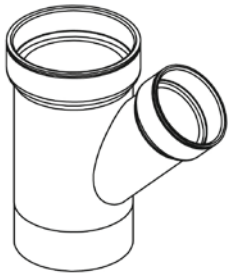




## Reducing Branch Wye 45° (SxSxS)

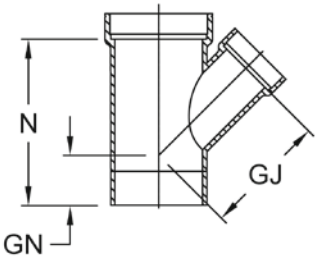
| Inch (inch) | DN (mm) | elektrolassen Code | Weight (lb) | Fast-Lock Code | GJ (inch) | GN (inch) | N (inch) | GJ (mm) | GN (mm) | N (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 x 1 1/2 | 50 x 40 | **373 163 030** | 0.675 | **377 163 030** | 3.44 | 1.06 | 4.38 | 87 | 27 | 111 |
| 3 x 1 1/2 | 80 x 40 | **373 163 031** | 1.365 | **377 163 031** | 6.25 | 0.88 | 5.00 | 159 | 22 | 127 |
| 3 x 2 | 80 x 50 | **373 163 032** | 1.293 | **377 163 032** | 4.63 | 0.88 | 5.00 | 118 | 22 | 127 |
| 4 x 2 | 100 x 50 | **373 163 034** | 1.741 | **377 163 034** | 5.56 | 0.38 | 5.06 | 141 | 10 | 129 |
| 4 x 3 | 100 x 80 | **373 163 035** | 2.156 | **377 163 035** | 6.00 | 1.06 | 6.63 | 152 | 27 | 168 |
| 6 x 2 | 150 x 50 | **373 163 037** | 1.950 | | 6.75 | -1.13 | 4.73 | 171 | -29 | 120 |
| 6 x 3 | 150 x 80 | **373 163 038** | 2.450 | | 7.43 | 0.19 | 6.38 | 189 | 5 | 162 |
| 6 x 4 | 150 x 100 | **373 163 039** | 2.600 | | 7.75 | 0.68 | 7.73 | 197 | 17 | 196 |



## Reducing Branch Wye 45° Street (SxSxSPG)

| Inch (inch) | DN (mm) | Electrofusion Code | Weight (lb) | Fast-Lock Code |
|---|---|---|---|---|
| 2 1/2 x 1 1/2 | 65 x 40 | **373 163 128** | 3.401 | **377 163 128** |
| 3 x 1 1/2 | 80 x 40 | **373 163 131** | 0.770 | **377 163 131** |
| 3 x 2 1/2 | 80 x 65 | **373 163 129** | 0.812 | **377 163 129** |
| 4 x 1 1/2 | 100 x 40 | **373 163 133** | 0.920 | **377 163 133** |
| 4 x 2 1/2 | 100 x 65 | **373 163 127** | 1.402 | **377 163 127** |
| 4 x 3 | 100 x 80 | **373 163 135** | 1.200 | **377 163 135** |
| 6 x 4 | 150 x 100 | **373 163 139** | 3.225 | |

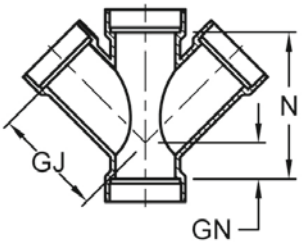



| GJ (inch) | GN (inch) | N (inch) | GJ (mm) | GN (mm) | N (mm) |
|---|---|---|---|---|---|
| 3.65 | 3.00 | 6.42 | 93 | 76 | 163 |
| 4.09 | 3.13 | 7.01 | 104 | 80 | 178 |
| 5.00 | 3.23 | 8.13 | 127 | 82 | 207 |
| 5.00 | 3.00 | 7.65 | 127 | 76 | 194 |
| 5.62 | 3.00 | 8.37 | 143 | 76 | 213 |
| 6.00 | 2.56 | 8.37 | 152 | 65 | 213 |
| 8.50 | 2.18 | 10.23 | 216 | 55 | 260 |



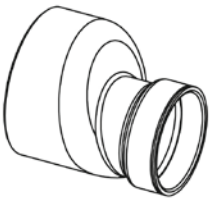
### Double Branch Wye 45° (SxSxSxS)

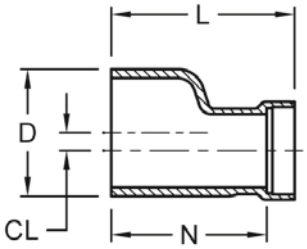
| Size (inch) | DN (mm) | elektrolassen Code | Fast-Lock Code | Weight (lb) | GJ (inch) | GN (inch) | N (inch) | GJ (mm) | GN (mm) | N (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 ½ | 40 | **373 163 501** | **377 163 501** | 0.734 | 3.50 | 1.13 | 4.63 | 89 | 29 | 118 |
| 2 | 50 | **373 163 502** | **377 163 502** | 1.010 | 4.00 | 1.38 | 5.38 | 102 | 35 | 137 |
| 2 ½ | 65 | **373 163 525** | **377 163 525** | 1.574 | 4.56 | 1.50 | 6.06 | 116 | 38 | 154 |
| 3 | 80 | **373 163 503** | **377 163 503** | 2.086 | 5.00 | 1.63 | 7.63 | 127 | 41 | 194 |
| 4 | 100 | **373 163 504** | **377 163 504** | 3.524 | 6.38 | 1.88 | 9.25 | 162 | 48 | 235 |




## Reducers

### Eccentric Pipe Increaser Street (SPGxS)

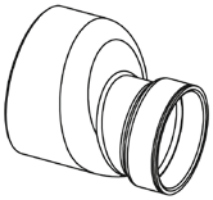




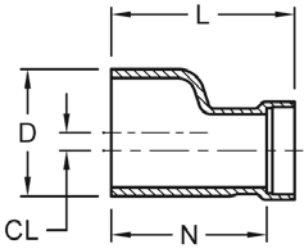

| Inch (inch) | DN (mm) | elektrolassen Code | Weight (lb) | Fast-Lock Code |
|---|---|---|---|---|
| 2 x 1 1/2 | 50 x 40 | **373 171 030** | 0.163 | **377 171 030** |
| 2 1/2 x 1 1/2 | 65 x 40 | **373 171 028** | 0.223 | **377 171 028** |
| 2 1/2 x 2 | 65 x 50 | **373 171 021** | 0.251 | **377 171 021** |
| 3 x 1 1/2 | 80 x 40 | **373 171 031** | 0.297 | **377 171 031** |
| 3 x 2 | 80 x 50 | **373 171 032** | 0.346 | **377 171 032** |
| 3 x 2 1/2 | 80 x 65 | **373 171 029** | 0.367 | **377 171 029** |
| 4 x 1 1/2 | 100 x 40 | **373 171 033** | 0.431 | **377 171 033** |
| 4 x 2 | 100 x 50 | **373 171 034** | 0.460 | **377 171 034** |
| 4 x 2 1/2 | 100 x 65 | **373 171 027** | 0.523 | **377 171 027** |
| 4 x 3 | 100 x 80 | **373 171 035** | 0.565 | **377 171 035** |
| 6 x 1 1/2 | 150 x 40 | **373 171 036** | 0.897 | |
| 6 x 2 | 150 x 50 | **373 171 037** | 0.973 | |
| 6 x 2 1/2 | 150 x 65 | **373 171 026** | 0.949 | |
| 6 x 3 | 150 x 80 | **373 171 038** | 1.009 | |
| 6 x 4 | 150 x 100 | **373 171 039** | 1.032 | |

| D (inch) | L (inch) | N (inch) | CL (inch) | D (mm) | L (mm) | N (mm) | CL (mm) |
|---|---|---|---|---|---|---|---|
| 2.38 | 3.78 | 3.02 | 0.23 | 61 | 96 | 77 | 6 |
| 2.88 | 3.26 | 2.50 | 0.43 | 73 | 83 | 64 | 11 |
| 2.88 | 4.11 | 3.17 | 0.20 | 73 | 104 | 81 | 5 |
| 3.50 | 3.43 | 2.67 | 0.72 | 89 | 87 | 68 | 18 |
| 3.50 | 4.33 | 3.39 | 0.49 | 89 | 110 | 86 | 12 |
| 3.50 | 3.40 | 2.46 | 0.29 | 89 | 86 | 63 | 7 |
| 4.50 | 3.72 | 2.96 | 1.20 | 114 | 95 | 75 | 31 |
| 4.50 | 4.73 | 3.79 | 0.97 | 114 | 120 | 96 | 25 |
| 4.50 | 3.79 | 2.85 | 0.76 | 114 | 96 | 72 | 19 |
| 4.50 | 3.66 | 2.72 | 0.47 | 114 | 93 | 69 | 12 |
| 6.63 | 4.60 | 3.87 | 2.22 | 168 | 117 | 98 | 56 |

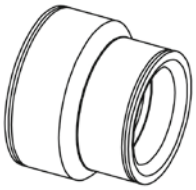
table continued on the next page



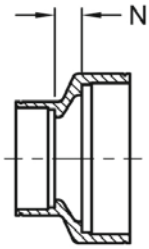
| D (inch) | L (inch) | N (inch) | CL (inch) | D (mm) | L (mm) | N (mm) | CL (mm) |
|---|---|---|---|---|---|---|---|
| 6.63 | 5.25 | 4.31 | 1.98 | 168 | 133 | 110 | 50 |
| 6.63 | 4.26 | 3.32 | 1.79 | 168 | 108 | 84 | 46 |
| 6.63 | 4.26 | 3.32 | 1.49 | 168 | 108 | 84 | 38 |
| 6.63 | 4.26 | 3.32 | 1.01 | 168 | 108 | 84 | 26 |



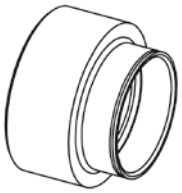

## Pipe Increaser (SxS)



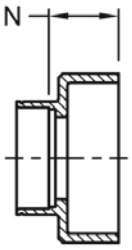
| Inch (inch) | DN (mm) | elektrolassen Code | Fast-Lock Code | Weight (lb) | N (inch) | N (mm) |
|---|---|---|---|---|---|---|
| 1 1/2 x 2 | 40 x 50 | **373 170 230** | **377 170 230** | 0.303 | 0.53 | 14 |
| 2 x 3 | 50 x 80 | **373 170 232** | **377 170 232** | 0.574 | 0.88 | 22 |
| 2 x 4 | 50 x 100 | **373 170 234** | **377 170 234** | 0.780 | 1.38 | 35 |
| 3 x 4 | 80 x 100 | **373 170 235** | **377 170 235** | 0.980 | 0.94 | 24 |



### Reducer Bushing Street (SPGxS)

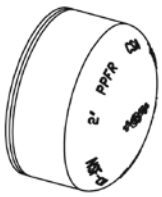


| Inch (inch) | DN (mm) | Electrofusion Code | Weight (lb) | Fast-Lock Code | N (inch) | N (mm) |
|---|---|---|---|---|---|---|
| 2 x 1 1/2 | 50 x 40 | **373 187 530** | 0.197 | **377 187 530** | 1.61 | 41 |
| 3 x 1 1/2 | 80 x 40 | **373 187 531** | 0.221 | **377 187 531** | 1.50 | 38 |
| 3 x 2 | 80 x 50 | **373 187 532** | 0.231 | **377 187 532** | 1.50 | 38 |
| 4 x 2 | 100 x 50 | **373 187 534** | 0.346 | **377 187 534** | 1.63 | 41 |
| 4 x 3 | 100 x 80 | **373 187 535** | 0.534 | **377 187 535** | 1.50 | 38 |
| 6 x 4 | 150 x 100 | **373 187 539** | 0.650 | | 1.28 | 33 |

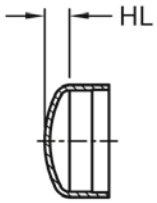



## Caps and End Caps

### SeaDrain Cap (S)

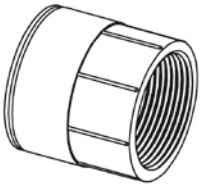


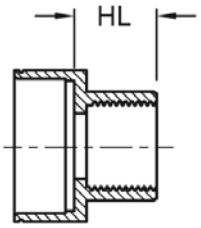
| Size (inch) | DN (mm) | Electrofusion Code | Fast-Lock Code | Weight (lb) | HL (inch) | HL (mm) |
|---|---|---|---|---|---|---|
| 1 ½ | 40 | **373 170 801** | **377 170 801** | 0.151 | 0.32 | 8 |
| 2 | 50 | **373 170 802** | **377 170 802** | 0.160 | 0.53 | 14 |
| 2 ½ | 65 | **373 170 825** | **377 170 825** | 0.325 | 0.91 | 23 |
| 3 | 80 | **373 170 803** | **377 170 803** | 0.536 | 0.91 | 24 |
| 4 | 100 | **373 170 804** | **377 170 804** | 0.749 | 1.09 | 28 |
| 6 | 150 | **373 170 806** | | 0.698 | 1.56 | 40 |



# Adapters and Transitions

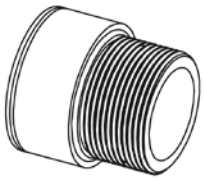
## Female Adapter (SxFPT)

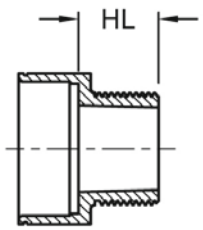





| Size (inch) | DN (mm) | Thread Type | NPT (inch) | Electrofusion Code | Fast-Lock Code | Weight (lb) | HL (inch) | HL (mm) |
|---|---|---|---|---|---|---|---|---|
| 1 ½ | 40 | NPT | 1 ½ | **373 168 901** | **377 168 901** | 0.174 | 1.12 | 28 |
| 2 | 50 | NPT | 2 | **373 168 902** | **377 168 902** | 0.197 | 1.15 | 29 |
| 3 | 80 | NPT | 3 | **373 168 903** | **377 168 903** | 0.574 | 1.72 | 45 |
| 4 | 100 | NPT | 4 | **373 168 904** | **377 168 904** | 0.728 | 1.81 | 46 |

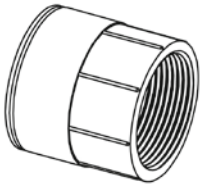
## Male Adapter (SxMPT)



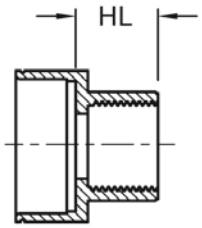



| Size (inch) | DN (mm) | Thread Type | NPT (inch) | Electrofusion Code | Fast-Lock Code | Weight (lb) | HL (inch) | HL (mm) |
|---|---|---|---|---|---|---|---|---|
| 1 ½ | 40 | NPT | 1 ½ | **373 168 701** | **377 168 701** | 0.156 | 1.18 | 30 |
| 2 | 50 | NPT | 2 | **373 168 702** | **377 168 702** | 0.200 | 1.25 | 32 |
| 3 | 80 | NPT | 3 | **373 168 703** | **377 168 703** | 0.529 | 1.84 | 47 |
| 4 | 100 | NPT | 4 | **373 168 704** | **377 168 704** | 0.647 | 2.00 | 51 |

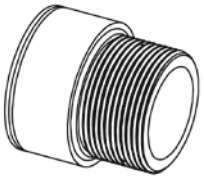
## Female Adapter (SxBSP)



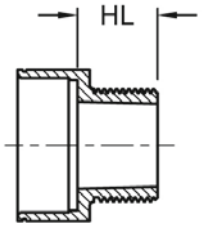
| Size (inch) | DN (mm) | Thread Type | Thread BSP (inch) | Electrofusion Code | Weight (lb) | Fast-Lock Code | HL (inch) | HL (mm) |
|---|---|---|---|---|---|---|---|---|
| 1 ½ | 40 | BSP | 1 | **373 168 123** | 0.104 | **377 168 123** | 1.00 | 25 |
| 1 ½ | 40 | BSP | 1 ¼ | **373 168 122** | 0.109 | **377 168 122** | 1.06 | 27 |
| 1 ½ | 40 | BSP | 1 ½ | **373 168 101** | 0.113 | **377 168 101** | 1.12 | 28 |
| 1 ½ | 40 | BSP | 2 | **373 168 130** | 0.200 | **377 168 130** | 1.15 | 29 |
| 2 | 50 | BSP | 2 | **373 168 102** | 0.280 | **377 168 102** | 1.15 | 29 |



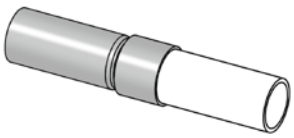

## Male Adapter (SxBSP)



| Size (inch) | DN (mm) | Thread Type | Thread BSP (inch) | Electrofusion Code | Weight (lb) | Fast-Lock Code | HL (inch) | HL (mm) |
|---|---|---|---|---|---|---|---|---|
| 1 ½ | 40 | BSP | 1 | **373 168 823** | 0.080 | **377 168 823** | 1.06 | 27 |
| 1 ½ | 40 | BSP | 1 ¼ | **373 168 822** | 0.100 | **377 168 822** | 1.12 | 28 |
| 1 ½ | 40 | BSP | 1 ½ | **373 168 801** | 0.120 | **377 168 801** | 1.25 | 32 |
| 1 ½ | 40 | BSP | 2 | **373 168 830** | 0.150 | **377 168 830** | 1.18 | 30 |
| 2 | 50 | BSP | 2 | **373 168 802** | 0.132 | **377 168 802** | 1.25 | 32 |



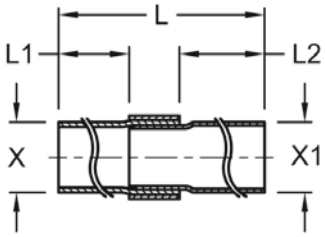
## Metal Transition Fitting (WeldxSPG)



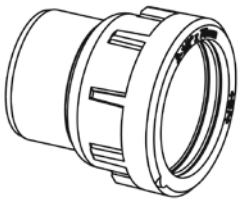
**Instruments:**

- USPH Compliant Transition

| Inch (inch) | DN (mm) | T316SS Code | Weight (lb) | L (inch) | L1 (inch) | L2 (inch) | X (inch) | X1 (inch) | L (mm) | L1 (mm) | L2 (mm) | X (mm) | X1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 1/2 | 40 | **373 188 901** | 2.000 | 21.69 | 10.75 | 9.69 | 1.90 | 1.90 | 551 | 273 | 246 | 48 | 48 |
| 2 | 50 | **373 188 902** | 3.000 | 21.96 | 10.50 | 10.00 | 2.38 | 2.38 | 558 | 267 | 254 | 61 | 61 |
| 2 1/2 | 65 | **373 188 925** | 3.000 | 22.38 | 10.00 | 10.38 | 2.88 | 2.88 | 568 | 254 | 264 | 73 | 73 |

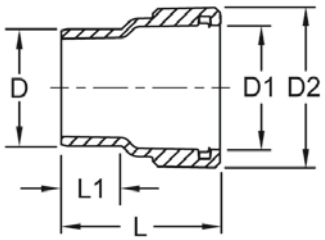



## Blucher Transition Fitting (PushxSPG)

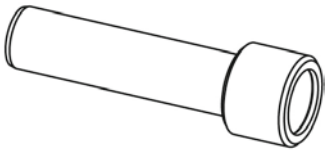


| Size (inch) | DN (mm) | Blucher (mm) | Code | Weight (lb) |
|---|---|---|---|---|
| 1 ½ | 40 | 50 | **373 187 640** | 0.251 |
| 2 ½ | 65 | 75 | **373 187 665** | 0.260 |
| 4 | 100 | 110 | **373 187 610** | 0.350 |
| 6 | 150 | 160 | **373 187 615** | 1.200 |

| D (inch) | L (inch) | L1 (inch) | D1 (inch) | D2 (inch) | D (mm) | L (mm) | L1 (mm) | D1 (mm) | D2 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 1.90 | 3.59 | 1.50 | 2.01 | 2.80 | 48.3 | 91.2 | 38.1 | 51.1 | 71.1 |
| 2.88 | 3.90 | 1.50 | 2.99 | 3.94 | 73.0 | 99.1 | 38.1 | 75.9 | 100.1 |
| 4.50 | 4.18 | 1.50 | 4.37 | 5.43 | 114.3 | 106.2 | 38.1 | 111.0 | 137.9 |
| 6.63 | 4.77 | 1.50 | 6.34 | 7.68 | 168.3 | 121.2 | 38.1 | 161.0 | 195.1 |

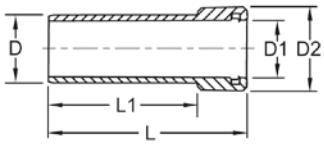


## Blucher Extended Transition Fitting (PUSHxSPG)

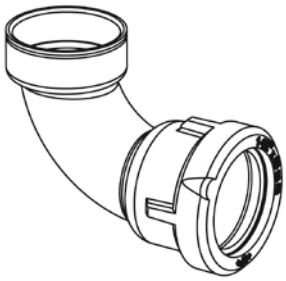


| Size (inch) | DN (mm) | Blucher (mm) | Code | Weight (lb) |
|---|---|---|---|---|
| 1 ½ | 40 | 50 | **373 387 901** | 0.400 |
| 2 ½ | 65 | 75 | **373 387 925** | 0.500 |

| D (inch) | L (inch) | L1 (inch) | D1 (inch) | D2 (inch) | D (mm) | L (mm) | L1 (mm) | D1 (mm) | D2 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 2.01 | 9.49 | 7.41 | 2.00 | 2.80 | 48.3 | 241.0 | 188.2 | 50.8 | 71.1 |
| 2.88 | 9.81 | 7.41 | 2.99 | 3.94 | 73.0 | 249.2 | 188.2 | 75.9 | 100.1 |

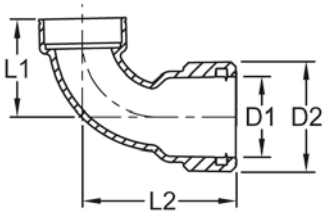



## Blucher 90° Transition Fitting (PUSHxSOC)



| Size (inch) | DN (mm) | Blucher (mm) | Electrofusion Code | Fast-Lock Code | Weight (lb) |
|---|---|---|---|---|---|
| 1 ½ | 40 | 50 | **373 186 801** | **377 186 801** | 0.251 |

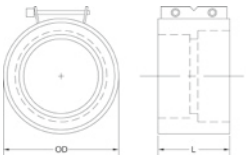
| D1 (inch) | D2 (inch) | L1 (inch) | L2 (inch) | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) |
|---|---|---|---|---|---|---|---|
| 2.01 | 2.80 | 2.51 | 3.87 | 51.1 | 71.1 | 63.8 | 98.2 |




## Metal Transition Coupling

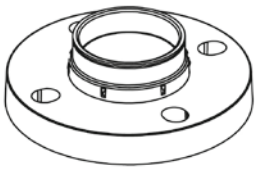


| Size (inch) | DN-DN (mm) | T304SS Code | Weight (lb) | T316LSS Code | O.D. (inch) | L (inch) |
|---|---|---|---|---|---|---|
| 1 ½ | 48 - 50 | **373 188 870** | 0.250 | **373 188 770** | 3 | 2 |
| 1 ½ | 53 - 55 | **373 188 800** | 0.441 | | 3 | 2 |
| 2 | 53 - 55 | **373 188 810** | 0.408 | | 3 | 2 |
| 2 | 74 - 77 | **373 188 820** | 0.225 | | 4 | 2 |
| 3 | 75 - 76 | **373 188 830** | 0.600 | **373 188 730** | 4 | 2 |
| 4 | 102 - 110 | **373 188 840** | 0.750 | **373 188 740** | 5 | 2 |
| 6 | 159 - 160 | **373 188 860** | 1.000 | | 7 | 3 |

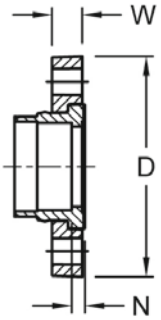


# Flange Connections

## SeaDrain Van Stone Flange (S) ANSI 150LB

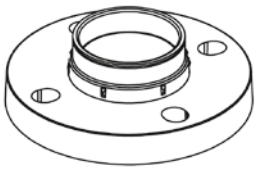


| Size (inch) | DN (mm) | elektrolassen Code | Weight (lb) | Fast-Lock Code |
|---|---|---|---|---|
| 1 ½ | 40 | **373 169 301** | 0.537 | **377 169 301** |
| 2 | 50 | **373 169 302** | 0.644 | **377 169 302** |
| 2 ½ | 65 | **373 169 325** | 1.068 | **377 169 325** |
| 3 | 80 | **373 169 303** | 1.403 | **377 169 303** |
| 4 | 100 | **373 169 304** | 1.659 | **377 169 304** |
| 6 | 150 | **373 169 306** | 2.650 | |

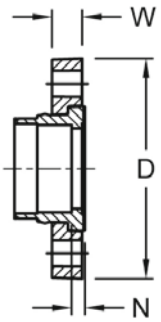



| # holes | bout-gat dia. (needs to be deleted) (inch) | bolt cir. dia. (inch) | D (inch) | N (inch) | W (inch) | bolt hole dia. (mm) | bolt cir-cle dia. (mm) | D (mm) | N (mm) | W (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0.56 | 3.88 | 5.00 | 0.31 | 0.75 | 14 | 99 | 127 | 8 | 19.1 |
| 4 | 0.68 | 4.75 | 6.00 | 0.34 | 0.81 | 17 | 121 | 152 | 9 | 20.6 |
| 4 | 0.75 | 5.50 | 7.28 | 0.44 | 1.00 | 19 | 140 | 185 | 11 | 25.4 |
| 4 | 0.75 | 6.00 | 7.50 | 0.44 | 1.00 | 19 | 152 | 191 | 11 | 25.4 |
| 8 | 0.75 | 7.50 | 9.00 | 0.42 | 1.10 | 19 | 191 | 229 | 11 | 27.9 |
| 8 | 0.88 | 9.50 | 11.00 | 0.45 | 1.26 | 22 | 241 | 279 | 11 | 32.0 |

## SeaDrain Van Stone Flange (S) DIN (PN10)



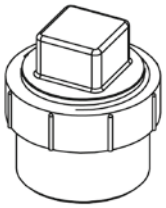
| Size (inch) | DN (mm) | Electrofusion Code | Weight (lb) | Fast-Lock Code |
|---|---|---|---|---|
| 1 ½ | 40 | **373 167 301** | 0.266 | **377 167 301** |
| 2 | 50 | **373 167 302** | 0.644 | **377 167 302** |
| 2 ½ | 65 | **373 167 325** | 1.068 | **377 167 325** |
| 3 | 80 | **373 167 303** | 1.228 | **377 167 303** |
| 4 | 100 | **373 167 304** | 0.861 | **377 167 304** |
| 6 | 150 | **373 167 306** | 2.650 | |

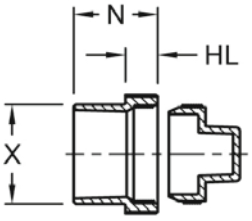



| # holes | bout-gat dia. (needs to be deleted) (inch) | bolt cir. dia. (inch) | D (inch) | N (inch) | W (inch) | bolt hole dia. (mm) | bolt cir-cle dia. (mm) | D (mm) | N (mm) | W (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0.75 | 4.30 | 5.90 | 0.31 | 0.75 | 19 | 109 | 150 | 8 | 19.1 |
| 4 | 0.75 | 4.90 | 6.50 | 0.34 | 0.81 | 19 | 125 | 165 | 9 | 20.6 |
| 4 | 0.75 | 5.70 | 7.30 | 0.44 | 1.00 | 19 | 145 | 185 | 11 | 25.4 |
| 8 | 0.75 | 6.30 | 7.90 | 0.44 | 1.00 | 19 | 160 | 201 | 11 | 25.4 |
| 8 | 0.75 | 7.00 | 8.70 | 0.42 | 1.10 | 19 | 178 | 221 | 11 | 27.9 |
| 8 | 0.88 | 9.45 | 11.25 | 0.45 | 1.26 | 22 | 240 | 286 | 11 | 32.0 |

# Cleanouts, Floor Drains, Traps and Misc. Products

## Cleanout Adapter with Plug Street (SPGxFT)

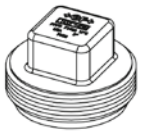


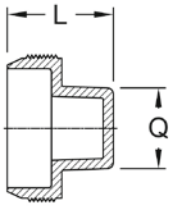



| Size (inch) | DN (mm) | Code | Weight (lb) | HL (inch) | N (inch) | X (inch) | HL (mm) | N (mm) | X (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 1 ½ | 40 | **373 177 001** | 0.114 | 0.78 | 2.09 | 1.90 | 20 | 53 | 48 |
| 2 | 50 | **373 177 002** | 0.151 | 0.78 | 2.22 | 2.38 | 20 | 56 | 61 |
| 2 ½ | 65 | **373 177 025** | 0.290 | 0.93 | 2.37 | 2.88 | 24 | 60 | 73 |
| 3 | 80 | **373 177 003** | 0.488 | 1.09 | 2.66 | 3.50 | 28 | 68 | 89 |
| 4 | 100 | **373 177 004** | 0.749 | 1.13 | 2.94 | 4.50 | 29 | 75 | 114 |
| 6 | 150 | **373 177 006** | 0.980 | 1.31 | 2.63 | 6.63 | 33 | 67 | 168 |

## Cleanout Plug (MT)

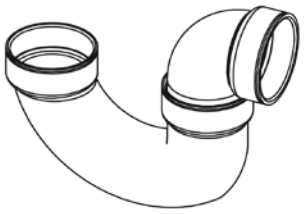
Только для ревизионного адаптера





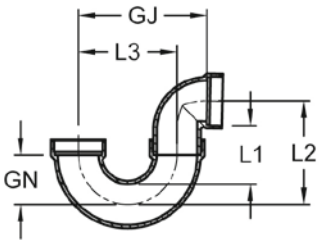

| Size (inch) | Code | Weight (lb) | L (inch) | Q (inch) |
|---|---|---|---|---|
| 1 ½ | **373 170 501** | 0.020 | 1.56 | 1.00 |
| 2 | **373 170 502** | 0.050 | 1.54 | 1.25 |
| 2 ½ | **373 170 525** | 0.080 | 1.94 | 1.56 |
| 3 | **373 170 503** | 0.130 | 2.03 | 1.63 |
| 4 | **373 170 504** | 0.220 | 2.16 | 2.00 |
| 6 | **373 170 506** | 0.570 | 2.38 | 2.38 |

## P-Trap (SxS)



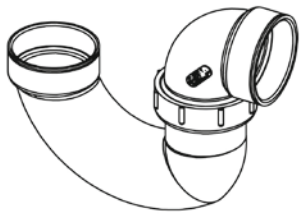
1-1/2" - 4" U-Bend Joint must be fused in the field

| Size (inch) | DN (mm) | Electrofusion Code | Быстрая фиксация Code | Weight (lb) |
|---|---|---|---|---|
| 1 ½ | 40 | **373 172 001** | **377 172 001** | 0.527 |
| 2 | 50 | **373 172 002** | **377 172 002** | 0.810 |
| 2 ½ | 65 | **373 172 025** | **377 172 025** | 1.512 |
| 3 | 80 | **373 172 003** | **377 172 003** | 2.410 |
| 4 | 100 | **373 172 004** | **377 172 004** | 3.340 |



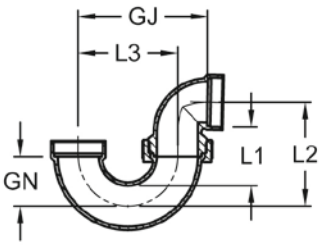

| GJ (inch) | GN (inch) | L1 (inch) | L2 (inch) | L3 (inch) | GJ (mm) | GN (mm) | L1 (mm) | L2 (mm) | L3 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 4.71 | 1.68 | 2.06 | 3.64 | 3.50 | 120 | 43 | 52 | 93 | 89 |
| 6.94 | 2.44 | 2.71 | 4.75 | 5.06 | 176 | 62 | 69 | 121 | 129 |
| 7.82 | 2.73 | 3.54 | 6.01 | 6.00 | 199 | 69 | 90 | 153 | 152 |
| 8.88 | 2.79 | 3.41 | 6.43 | 6.75 | 226 | 71 | 87 | 163 | 172 |
| 10.75 | 3.88 | 3.88 | 8.06 | 8.50 | 273 | 99 | 99 | 205 | 216 |

## P-Trap with Union Connection (SxS)

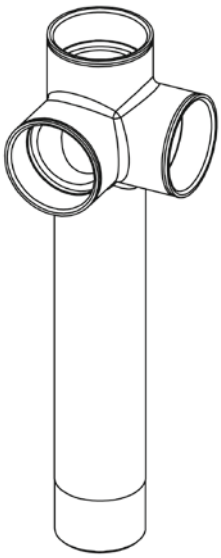


| Size (inch) | DN (mm) | Electrofusion Code | Weight (lb) | Fast-Lock Code |
|---|---|---|---|---|
| 1 ½ | 40 | **373 172 101** | 0.566 | **377 172 101** |

| GJ (inch) | GN (inch) | L1 (inch) | L2 (inch) | L3 (inch) | GJ (mm) | GN (mm) | L1 (mm) | L2 (mm) | L3 (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 4.84 | 1.68 | 2.38 | 4.00 | 3.50 | 123 | 43 | 61 | 102 | 89 |

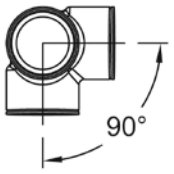


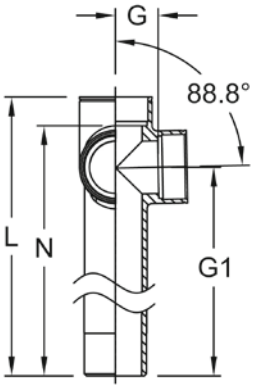
## Double Branch Tee 90° Corner Connector Street (SxSxSxSPG)



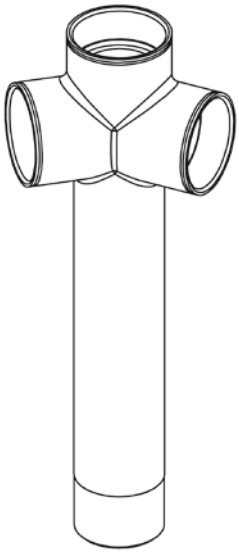
| Inch (inch) | DN (mm) | Electrofusion Code | Быстрая фиксация Code | Weight (lb) |
|---|---|---|---|---|
| 1 1/2 x 1 1/2 | 40 x 40 | **373 162 201** | **377 162 201** | 0.420 |
| 2 1/2 x 1 1/2 | 65 x 40 | **373 162 228** | **377 162 228** | 1.245 |

| G (inch) | N (inch) | L (inch) | G1 (inch) | G (mm) | N (mm) | L (mm) | G1 (mm) |
|---|---|---|---|---|---|---|---|
| 1.30 | 11.27 | 12.03 | 10.00 | 47 | 286 | 306 | 254 |
| 1.84 | 11.27 | 12.21 | 10.00 | 33 | 286 | 310 | 254 |



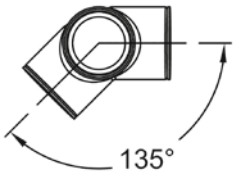



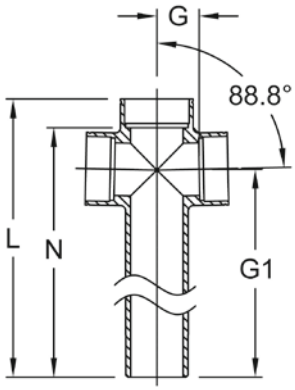
## Double Branch Tee 135° Corner Connector Street (SxSxSxSPG)



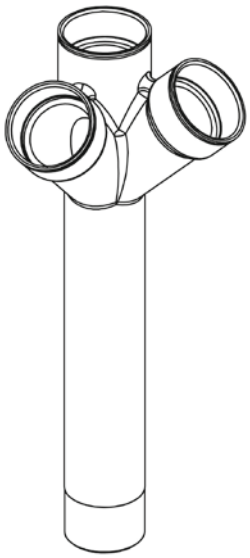
| Inch (inch) | DN (mm) | Electrofusion Code | Fast-Lock Code | Weight (lb) |
|---|---|---|---|---|
| 1 1/2 x 1 1/2 | 40 x 40 | **373 162 301** | **377 162 301** | 0.420 |
| 2 1/2 x 1 1/2 | 65 x 40 | **373 162 328** | **377 162 328** | 1.245 |

| G (inch) | N (inch) | L (inch) | G1 (inch) | G (mm) | N (mm) | L (mm) | G1 (mm) |
|---|---|---|---|---|---|---|---|
| 1.84 | 11.36 | 12.30 | 10.00 | 47 | 289 | 312 | 254 |
| 1.30 | 11.39 | 12.15 | 10.00 | 33 | 289 | 309 | 254 |



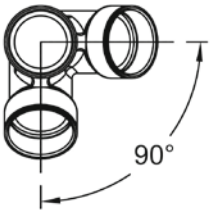



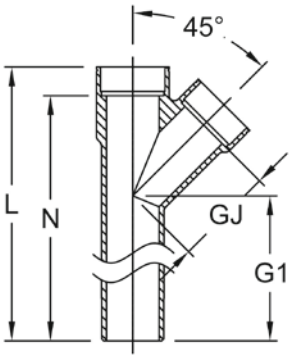
## Double Branch Wye 90° Corner Connector Street (SxSxSxSPG)



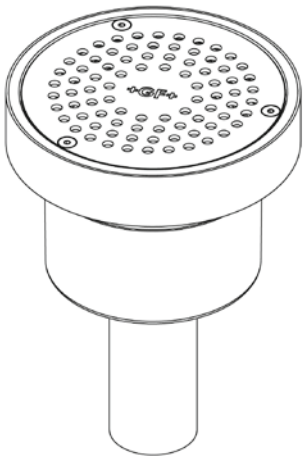
| Inch (inch) | DN (mm) | Electrofusion Code | Fast-Lock Code | Weight (lb) |
|---|---|---|---|---|
| 1 1/2 x 1 1/2 | 40 x 40 | **373 162 401** | **377 162 401** | 0.420 |
| 2 1/2 x 1 1/2 | 65 x 40 | **373 162 428** | **377 162 428** | 1.295 |

| G (inch) | N (inch) | L (inch) | G1 (inch) | G (mm) | N (mm) | L (mm) | G1 (mm) |
|---|---|---|---|---|---|---|---|
| 3.07 | 13.18 | 13.95 | 10.00 | 78 | 335 | 354 | 254 |
| 3.84 | 13.61 | 14.55 | 10.00 | 98 | 346 | 370 | 254 |



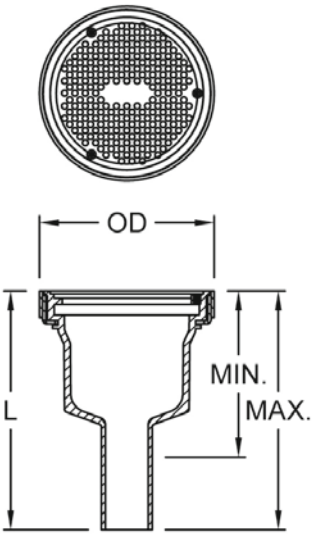



## Drain Scupper (SPG) - Open Deck



| Outlet Size (inch) | DN (mm) | staal uitvoering Code | Алюминиевая крышка Code | Weight (lb) |
|---|---|---|---|---|
| 1 ½ | 40 | **373 181 101** | **373 181 301** | 0.420 |
| 2 ½ | 65 | **373 181 125** | **373 181 325** | 0.420 |

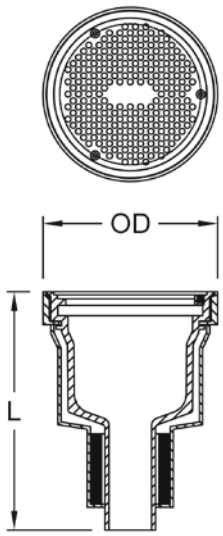
| OD (inch) | L (inch) | Min. (inch) | Max. (inch) | OD (mm) | L (mm) | Min. (mm) | Max. (mm) |
|---|---|---|---|---|---|---|---|
| 6.6 | 9.0 | 6.4 | 9.0 | 168 | 229 | 163 | 229 |
| 6.6 | 9.0 | 6.4 | 9.0 | 168 | 229 | 163 | 229 |



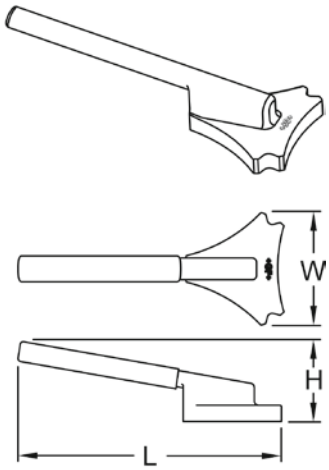
## Drain Scupper (SPG) - Class A60



| Outlet Size (inch) | DN (mm) | Fire Class | Steel Sleeve Code | Weight (lb) | OD (inch) | L (inch) | OD (mm) | L (mm) |
|---|---|---|---|---|---|---|---|---|
| 1 ½ | 40 | A60 | **373 181 401** | 0.420 | 6.6 | 9.0 | 168 | 229 |
| 2 ½ | 65 | A60 | **373 181 425** | 0.420 | 6.6 | 8.8 | 168 | 224 |




## Drain Scupper Installation Wrench

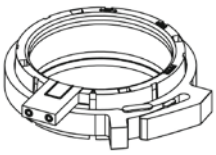


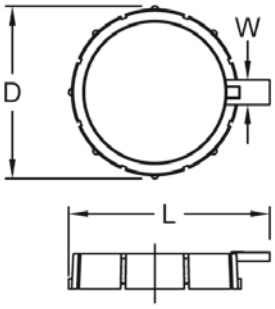

| Description | Code | Weight (lb) | L (inch) | W (inch) | H (inch) | L (mm) | W (mm) | H (mm) |
|---|---|---|---|---|---|---|---|---|
| Drain Scupper Wrench (Aluminum) | **37Z004844** | 1.410 | 12.18 | 5.20 | 3.62 | 309.4 | 132.1 | 91.9 |

## Drain Scupper Replacement Parts

| Description | Code |
|---|---|
| Drain Scupper Gasket | **37Z002150** |
| Drain Scupper Stainless Steel Cover | **37Z003390** |
| Drain Scupper Cover Screw Kit | **37Z003404** |

# Fusion and Fast-Lock Accessories



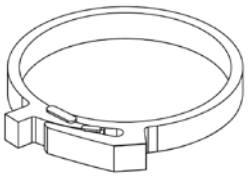



## Fusion Locking Collar with Plastic Clamp

6" Fusion Locking collars require 6" metal clamps, sold seperately
Le collier de 6" utilise une pièce de serrage en métal# 37Z000600

| Size (inch) | Code | Weight (lb) | D (inch) | L (inch) | W (inch) | D (mm) | L (mm) | W (mm) |
|---|---|---|---|---|---|---|---|---|
| 1 ½ | **373 162 801** | 0.037 | 2.62 | 3.17 | 0.62 | 66.5 | 80.5 | 15.6 |
| 2 | **373 162 802** | 0.053 | 3.05 | 3.70 | 0.62 | 77.5 | 93.9 | 15.6 |
| 2 ½ | **373 162 825** | 0.062 | 3.61 | 4.35 | 0.63 | 91.7 | 110.4 | 15.9 |
| 3 | **373 162 803** | 0.075 | 4.32 | 4.86 | 0.63 | 109.7 | 123.4 | 15.9 |
| 4 | **373 162 804** | 0.149 | 5.35 | 6.09 | 0.63 | 135.9 | 154.6 | 15.9 |
| 6 | **373 162 806** | 0.170 | 7.46 | 7.97 | 0.63 | 189.5 | 202.5 | 15.9 |

## Plastic Clamp



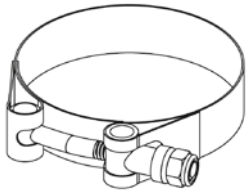
| Size (inch) | Code | Weight (lb) |
|---|---|---|
| 1 ½ | **37A160601** | 0.022 |
| 2 | **37A160602** | 0.033 |
| 3 | **37A160603** | 0.042 |
| 4 | **37A160604** | 0.110 |

## Channel Locks



| Inch (inch) | description | Code | Weight (lb) |
|---|---|---|---|
| 1 1/2, 2, & 3 | 440 Channel Locks | **37X004817** | 1.640 |
| 4 | 460 Channel Locks | **37X004818** | 3.140 |

## Metal Clamp



| Size (inch) | Code | Weight (lb) |
|---|---|---|
| 4 | **37Z000400** | 0.399 |
| 6 | **37Z000600** | 0.375 |

## Fast-Lock MJ Kit

bestaat uit Fast-Lock MJ kraag, bout, & afdichting



| Size (inch) | Code | Weight (kg) | Weight (lb) |
|---|---|---|---|
| 1 ½ | **377 160 001** | 0.050 | 0.050 |
| 2 | **377 160 002** | 0.029 | 0.065 |
| 2 ½ | **377 160 025** | 0.078 | 0.171 |
| 3 | **377 160 003** | 0.136 | 0.299 |
| 4 | **377 160 004** | 0.204 | 0.450 |

## Lock Ring Pliers



| Code | Weight (lb) |
|---|---|
| **37Z000096** | 0.190 |

## Fast-Lock MJ Lubricant



**Note:**
Food Grade Safe, Meets FDA: 21 CFR 175.300
Contains no hazardous ingredients according to GHS

| Size (oz) | Size (grams) | Code | Weight (lb) |
|---|---|---|---|
| 5 | 150 | **37Z000097** | 0.190 |



## Rotary Pipe Chamfering Tool

- Chamfering tool (15° bevel) for plastic pipes. Fast and reliable adjustment to the different pipe diameters and wall thickness.
- Easy adjustment to the different pipe diameters and wall thickness.

| d-d (mm) | Code | Weight (lb) |
|---|---|---|
| 25 - 200 | **790 309 003** | 2.866 |




## Tangit KS Cleaner

- Special cleaner for plastic fusion connections in the material of PE, PP, PB, PVDF, ECTFE and PVC-U
- Suitable for Tangit Rapid. Must not be used for solvent cementing
- DVGW approved
- DW 5290 BR 0464

| Size | Code | Weight (lb) |
|---|---|---|
| 1 liter | **799 298 023** | 1.922 |




## MSA 2 MULTI Automatic Electrofusion Unit for PE/PP/PVDF/PB

The MSA 2 MULTI automatic electro fusion unit combines light weight and high efficiency, thanks to its inverter technology. The unit is suitable for welding PE, PP, INSTAFLEX PB d125-225, Fuseal d1 1/2"-12" and PPro-Seal 1/2"-3".
It is robust, safe and ergonomic.
All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive.
The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.
The unit can keep up to 500 protocols permanently stored in the internal memory. The user can export the fusion reports to an USB stick to print them out in PDF format.
Scope of delivery includes: 1 pair of angle adapter clips 4.0 mm, operating instructions, START/STOP badge, USB memory stick and robust transport case

**Technical Data:**

- Operating temperature: -20°C to +50°C
- Mains voltage and frequency: 230V (190V - 265V), 50-60Hz
- Fusion data input mode: bar code, manual
- Fittings range: d16-630 mm , 1/2"-12"
- Fusion voltage: 3.6-40 V
- Fusion current: 90 A (max)
- Suggested power generators: 3.5 kVA
- USB Port: Type A
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m / Fusion cable: 3 m
- Weight: ca. 11.9 kg
- Display: Graphical LCD, adjustable contrast

| Description | Code | Weight (lb) |
|---|---|---|
| Full package plus mini Welding Book, SeaDrain adapters and barcodes | **790 156 022** | 26.235 |



## MSA Fusion to SeaDrain White Adapter Cables

Сварочные кабели MSA 1,5 м

| Description | Code | Weight (lb) |
|---|---|---|
| Cable Assembly | **799 350 911** | 1.764 |

## Fusion Machine Accessories

| Description | Code | Weight (lb) |
|---|---|---|
| Continuity Tester | **799 350 901** | 0.441 |
| Operation Mode Cards MSA250 EX Multi | **799 350 902** | 0.220 |
| SeaDrain White Barcode Set with Continuity Tester | **799 350 904** | 0.661 |

# AQUASYSTEM



## Your benefits

+ **Noise reduction**
+ **Corrosion free**
+ **Easy jointing technology**
+ **Less maintenance cost**

## Technical data

**Materials**
PP-R, brass

**Dimensions range**
d20mm – d200mm

**Jointing technology**
Socket fusion

**Operating pressure**
Up to 20 bar

**Operating temperature**
5°C to 60°C

The value above listed are to be considered for water, in case of use chemical addition it is always recommended to contact GF specialist to an individual and more detailed assessment.

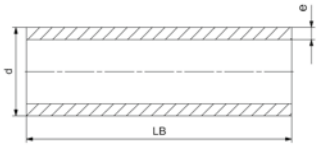
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# Plastic Pipes

## AQUASYSTEM Pipe PP-R PN16 SDR7.4 Aenor

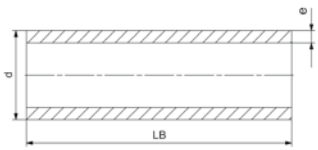



| DN (mm) | Code | PN (bar) | SDR | d (mm) | e (mm) | LB (mm) |
|---|---|---|---|---|---|---|
| 20 | **4002002004121** | 16 | 7.4 | 20 | 2.8 | 4000 |
| 25 | **4002002504221** | 16 | 7.4 | 25 | 3.5 | 4000 |
| 32 | **4002003204321** | 16 | 7.4 | 32 | 4.4 | 4000 |
| 40 | **4002004004421** | 16 | 7.4 | 40 | 5.5 | 4000 |
| 50 | **4002005004521** | 16 | 7.4 | 50 | 6.9 | 4000 |
| 63 | **4002006304621** | 16 | 7.4 | 63 | 8.6 | 4000 |
| 75 | **4002007504721** | 16 | 7.4 | 75 | 10.3 | 4000 |
| 90 | **4002009001121** | 16 | 7.4 | 90 | 12.3 | 4000 |
| 110 | **4002011001221** | 16 | 7.4 | 110 | 15.1 | 4000 |

## AQUASYSTEM Pipe PP-R PN20 SDR6 Aenor



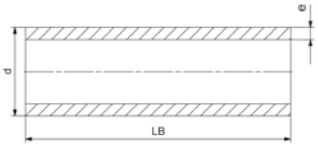




| DN (mm) | Code | PN (bar) | SDR | d (mm) | e (mm) | LB (mm) |
|---|---|---|---|---|---|---|
| 20 | **4002002000421** | 20 | 6 | 20 | 3.4 | 4000 |
| 25 | **4002002500321** | 20 | 6 | 25 | 4.2 | 4000 |
| 32 | **4002003200421** | 20 | 6 | 32 | 5.4 | 4000 |
| 40 | **4002004000721** | 20 | 6 | 40 | 6.7 | 4000 |
| 50 | **4002005000821** | 20 | 6 | 50 | 8.3 | 4000 |
| 63 | **4002006300921** | 20 | 6 | 63 | 10.5 | 4000 |
| 75 | **4002007500921** | 20 | 6 | 75 | 12.5 | 4000 |
| 90 | **4002009000621** | 20 | 6 | 90 | 15.0 | 4000 |

## AQUASYSTEM Pipe PP-R PN10 SDR11

| DN (mm) | Code | PN (bar) | SDR | d (mm) | e (mm) | LB (mm) |
|---|---|---|---|---|---|---|
| 160 | **4002016000821** | 10 | 11 | 160 | 14.6 | 4000 |

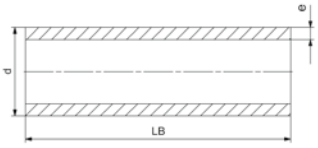



## AQUASYSTEM Pipe PP-R PN16 SDR7.4

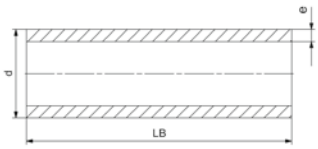
| DN (mm) | Code | PN (bar) | SDR | d (mm) | e (mm) | LB (mm) |
|---|---|---|---|---|---|---|
| 40 | **4002004004321** | 16 | 7.4 | 40 | 5.5 | 4000 |
| 63 | **4002006304521** | 16 | 7.4 | 63 | 8.6 | 4000 |
| 160 | **4002016000921** | 16 | 7.4 | 160 | 21.9 | 4000 |
| 200 | **4002020001121** | 16 | 7.4 | 200 | 27.4 | 4000 |



### AQUASYSTEM Pipe PP-R PN20 SDR6



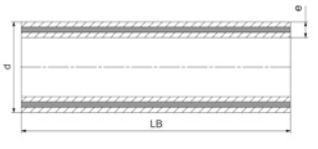




| DN (mm) | Code | PN (bar) | SDR | d (mm) | e (mm) | LB (mm) |
|---|---|---|---|---|---|---|
| 20 | **4002002000121** | 20 | 6 | 20 | 3.4 | 4000 |
| 25 | **4002002500221** | 20 | 6 | 25 | 4.2 | 4000 |
| 32 | **4002003200321** | 20 | 6 | 32 | 5.4 | 4000 |
| 40 | **4002004000421** | 20 | 6 | 40 | 6.7 | 4000 |
| 50 | **4002005000521** | 20 | 6 | 50 | 8.3 | 4000 |
| 63 | **4002006300621** | 20 | 6 | 63 | 10.5 | 4000 |
| 75 | **4002007500721** | 20 | 6 | 75 | 12.5 | 4000 |
| 90 | **4002009000821** | 20 | 6 | 90 | 15.0 | 4000 |
| 110 | **4002011000921** | 20 | 6 | 110 | 18.3 | 4000 |
| 125 | **4002012501021** | 20 | 6 | 125 | 20.8 | 4000 |
| 160 | **4002016001121** | 20 | 6 | 160 | 26.6 | 4000 |
| 200 | **4002020000221** | 20 | 6 | 200 | 33.2 | 4000 |

# Multilayer Pipes

### AQUASYSTEM Faser Fiberglass Reinforced Pipe PP-R PN20 SDR7.4 Aenor

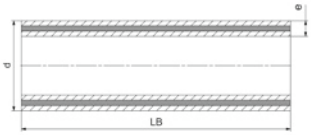



| DN (mm) | Code | PN (bar) | SDR | d (mm) | e (mm) | LB (mm) |
|---|---|---|---|---|---|---|
| 20 | **4202002000221** | 20 | 7.4 | 20 | 2.8 | 4000 |
| 25 | **4202002500321** | 20 | 7.4 | 25 | 3.5 | 4000 |
| 32 | **4202003200421** | 20 | 7.4 | 32 | 4.4 | 4000 |
| 40 | **4202004000521** | 20 | 7.4 | 40 | 5.5 | 4000 |
| 50 | **4202005000621** | 20 | 7.4 | 50 | 6.9 | 4000 |
| 63 | **4202006300721** | 20 | 7.4 | 63 | 8.6 | 4000 |
| 75 | **4202007500821** | 20 | 7.4 | 75 | 10.3 | 4000 |
| 90 | **4202009000921** | 20 | 7.4 | 90 | 12.3 | 4000 |
| 110 | **4202011001021** | 20 | 7.4 | 110 | 15.1 | 4000 |
| 125 | **4202012500131** | 20 | 7.4 | 125 | 17.1 | 4000 |
| 160 | **4202016000521** | 20 | 7.4 | 160 | 21.9 | 4000 |

## AQUASYSTEM Faser Fiberglass Reinforced Pipe PP-R PN20 SDR7.4

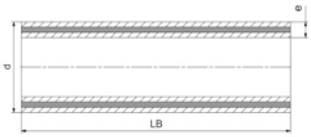



| DN (mm) | Code | PN (bar) | SDR | d (mm) | e (mm) | LB (mm) |
|---|---|---|---|---|---|---|
| 20 | **4202002000121** | 20 | 7.4 | 20 | 2.8 | 4000 |
| 25 | **4202002500221** | 20 | 7.4 | 25 | 3.5 | 4000 |
| 32 | **4202003200321** | 20 | 7.4 | 32 | 4.4 | 4000 |
| 40 | **4202004000421** | 20 | 7.4 | 40 | 5.5 | 4000 |
| 50 | **4202005000521** | 20 | 7.4 | 50 | 6.9 | 4000 |
| 63 | **4202006300621** | 20 | 7.4 | 63 | 8.6 | 4000 |
| 75 | **4202007500721** | 20 | 7.4 | 75 | 10.3 | 4000 |
| 90 | **4202009000821** | 20 | 7.4 | 90 | 12.3 | 4000 |
| 110 | **4202011000921** | 20 | 7.4 | 110 | 15.1 | 4000 |
| 125 | **4202012500121** | 20 | 7.4 | 125 | 17.1 | 4000 |
| 160 | **4202016000321** | 20 | 7.4 | 160 | 21.9 | 4000 |

## AQUASYSTEM Faser Fiberglass Reinforced Pipe PP-R PN25 SDR6



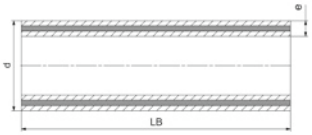

| DN (mm) | Code | PN (bar) | SDR | d (mm) | e (mm) | LB (mm) |
|---|---|---|---|---|---|---|
| 20 | **4202002001021** | 25 | 6 | 20 | 3.4 | 4000 |
| 25 | **4202002501121** | 25 | 6 | 25 | 4.2 | 4000 |
| 32 | **4202003201221** | 25 | 6 | 32 | 5.4 | 4000 |
| 40 | **4202004000621** | 25 | 6 | 40 | 6.7 | 4000 |
| 50 | **4202005000721** | 25 | 6 | 50 | 8.3 | 4000 |
| 63 | **4202006300821** | 25 | 6 | 63 | 10.5 | 4000 |
| 75 | **4202007500921** | 25 | 6 | 75 | 12.5 | 4000 |
| 90 | **4202009001021** | 25 | 6 | 90 | 15.0 | 4000 |
| 110 | **4202011001121** | 25 | 6 | 110 | 18.3 | 4000 |
| 160 | **4202016000531** | 25 | 6 | 160 | 26.6 | 4000 |

## AQUASYSTEM Climafaser Fiberglass Reinforced Pipe PP-R PN10 SDR11

**Attention:**

- d20 and d25 mm are SDR7,4 (PN20) in this range.

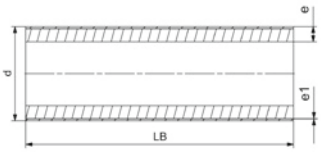



| DN (mm) | Code | PN (bar) | SDR | d (mm) | e (mm) | LB (mm) |
|---|---|---|---|---|---|---|
| 20 | **4202002030021** | 20 | 7,4 | 20 | 2.8 | 4000 |
| 25 | **4202002530021** | 20 | 7,4 | 25 | 3.5 | 4000 |
| 32 | **4202003230121** | 10 | 11 | 32 | 2.9 | 4000 |
| 40 | **4202004030021** | 10 | 11 | 40 | 3.7 | 4000 |
| 50 | **4202005030021** | 10 | 11 | 50 | 4.6 | 4000 |
| 63 | **4202006330121** | 10 | 11 | 63 | 5.8 | 4000 |
| 75 | **4202007530021** | 10 | 11 | 75 | 6.8 | 4000 |
| 90 | **4202009030021** | 10 | 11 | 90 | 8.2 | 4000 |
| 110 | **4202011030021** | 10 | 11 | 110 | 10.0 | 4000 |
| 160 | **4202016000221** | 10 | 11 | 160 | 14.6 | 4000 |

## AQUASYSTEM UV Resistant Stable Pipe PP-R PN25 SDR6

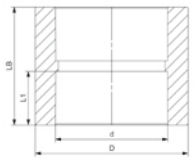



| DN (mm) | Code | PN (bar) | SDR | d (mm) | e (mm) | e1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 20 | **4102002015021** | 25 | 6 | 20 | 4.5 | 0.15 | 4000 |
| 25 | **4102002515021** | 25 | 6 | 25 | 5.3 | 0.15 | 4000 |
| 32 | **4102003215021** | 25 | 6 | 32 | 6.5 | 0.15 | 4000 |
| 40 | **4102004015021** | 25 | 6 | 40 | 7.8 | 0.15 | 4000 |
| 50 | **4102005015021** | 25 | 6 | 50 | 9.4 | 0.15 | 4000 |
| 63 | **4102006315021** | 25 | 6 | 63 | 11.6 | 0.15 | 4000 |

# Fittings
## Couplers and Sockets

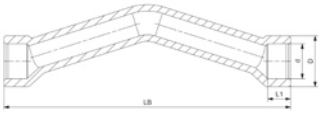




### AQUASYSTEM Socket PP-R

| Dim. (mm) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|
| 20 | **4302502020021** | 25 | 27.5 | 19.2 | 14.5 | 33.0 |
| 25 | **4302502520121** | 25 | 33.0 | 24.2 | 16.0 | 37.0 |
| 32 | **4302503220221** | 25 | 41.0 | 31.1 | 18.0 | 40.0 |
| 40 | **4302504020321** | 25 | 52.0 | 39.0 | 21.0 | 45.0 |
| 50 | **4302505020421** | 25 | 66.3 | 48.9 | 23.5 | 51.0 |
| 63 | **4302506320521** | 25 | 83.5 | 62.5 | 28.0 | 57.5 |
| 75 | **4302507520621** | 25 | 98.0 | 74.0 | 30.5 | 66.0 |
| 90 | **4302509020721** | 25 | 118.0 | 89.0 | 34.5 | 75.0 |
| 110 | **4302511020821** | 25 | 143.5 | 108.0 | 39.5 | 83.5 |
| 125 | **4302512520922** | 25 | 165.0 | 122.4 | 40.0 | 90.0 |
| 160 | **4302516000121** | 20 | 208.0 | 154.6 | 48.0 | 103.0 |

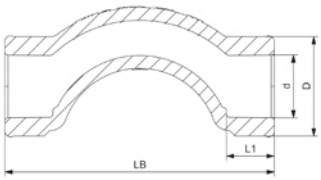




### AQUASYSTEM Crossover With Socket PP-R

| Dim. (mm) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|
| 20 | **4302902000121** | 25 | 30.0 | 19.3 | 14.7 | 162.4 |
| 25 | **4302902500221** | 25 | 36.6 | 24.2 | 16.5 | 206.0 |
| 32 | **4302903200321** | 25 | 45.0 | 31.1 | 18.1 | 263.0 |

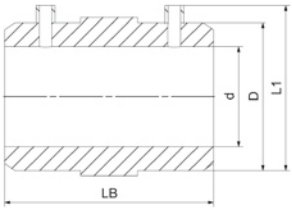




### AQUASYSTEM Short Crossover With Socket PP-R

| Dim. (mm) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|
| 20 | **4302902000321** | 25 | 31.0 | 19.3 | 15.0 | 84.2 |
| 25 | **4302902500321** | 25 | 37.5 | 24.2 | 16.0 | 98.0 |

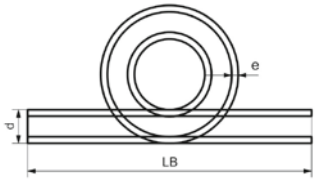





## AQUASYSTEM Electrofusion Coupler PP-R

| Dim. (mm) | Code | d (mm) | D (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|
| 20 | **4302902091522** | 20 | 33.0 | 50.0 | 70.0 |
| 25 | **4302902591522** | 25 | 38.0 | 57.0 | 70.0 |
| 32 | **4302903291522** | 32 | 46.0 | 62.0 | 79.0 |
| 40 | **4302904091522** | 40 | 55.0 | 71.0 | 90.0 |
| 50 | **4302905091522** | 50 | 67.0 | 82.0 | 100.0 |
| 63 | **4302906391522** | 63 | 86.0 | 101.0 | 106.0 |
| 75 | **4302907591522** | 75 | 103.0 | 115.0 | 121.0 |
| 90 | **4302909091522** | 90 | 121.0 | 134.0 | 131.0 |
| 110 | **4302911091522** | 110 | 142.0 | 156.0 | 142.0 |
| 125 | **4302912591522** | 125 | 163.0 | 175.0 | 151.0 |

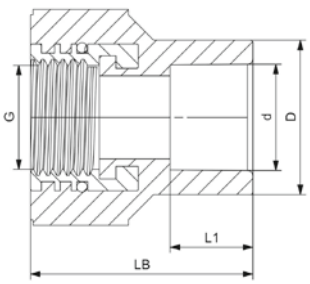





## AQUASYSTEM Omega PP-R

Dimensions table is empty, please add data.



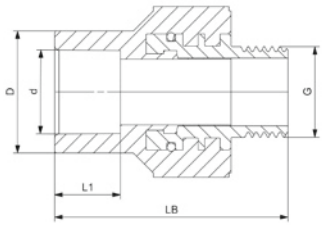



## AQUASYSTEM Female Socket (Round) BSPP-G PP-R

| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302702030021** | 25 | 27.9 | 19.2 | 15.0 | 40.3 |
| 20 | ¾ | **4302702030121** | 25 | 28.0 | 19.2 | 18.5 | 42.5 |
| 25 | ½ | **4302702530221** | 25 | 33.0 | 24.2 | 17.0 | 40.3 |
| 25 | ¾ | **4302702530321** | 25 | 33.0 | 24.2 | 16.5 | 38.0 |
| 32 | ¾ | **4302703225321** | 25 | 43.5 | 31.1 | 18.5 | 45.5 |
| 32 | 1 | **4302703230421** | 25 | 43.5 | 31.1 | 18.5 | 45.5 |

## AQUASYSTEM Male Socket (Round) BSPP-G PP-R

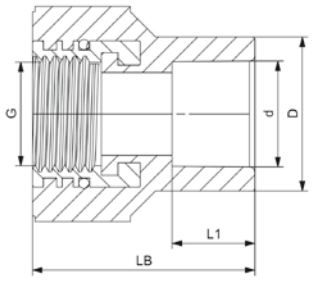





| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302702032921** | 25 | 27.9 | 19.2 | 15.0 | 53.3 |
| 20 | ¾ | **4302702032121** | 25 | 28.0 | 19.2 | 18.5 | 56.5 |
| 25 | ½ | **4302702532921** | 25 | 33.0 | 24.3 | 17.0 | 53.3 |
| 25 | ¾ | **4302702532321** | 25 | 33.0 | 24.2 | 16.5 | 52.0 |
| 32 | ¾ | **4302703227421** | 25 | 43.5 | 31.1 | 18.5 | 59.5 |
| 32 | 1 | **4302703232421** | 25 | 43.5 | 31.1 | 18.5 | 60.5 |

## AQUASYSTEM Female Socket (Round) BSPT-Rp PP-R

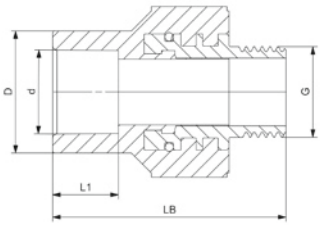





| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302702040021** | 25 | 27.9 | 19.2 | 15.0 | 40.3 |
| 20 | ¾ | **4302702040121** | 25 | 28.0 | 19.2 | 18.5 | 42.5 |
| 25 | ½ | **4302702540021** | 25 | 33.0 | 24.2 | 17.0 | 40.3 |
| 25 | ¾ | **4302702540121** | 25 | 33.0 | 24.2 | 16.5 | 38.0 |
| 32 | ¾ | **4302703240021** | 25 | 43.5 | 31.1 | 18.5 | 45.5 |
| 32 | 1 | **4302703240221** | 25 | 43.5 | 31.1 | 18.5 | 45.5 |

## AQUASYSTEM Male Socket (Round) BSPT-R PP-R

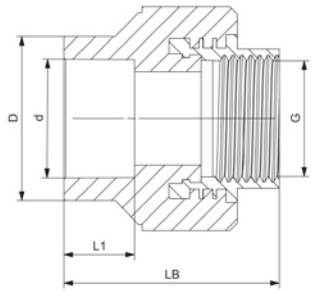





| Dim. (mm) | G (inch) | Code | D (mm) | d (mm) | L1 (mm) | LB (mm) | PN (bar) |
|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302702040921** | 27.9 | 19.2 | 15.0 | 55.8 | 25 |
| 20 | ¾ | **4302702040321** | 28.0 | 19.2 | 18.5 | 59.0 | 25 |
| 25 | ½ | **4302702540921** | 33.0 | 24.3 | 17.0 | 55.8 | 25 |
| 25 | ¾ | **4302702540321** | 33.0 | 24.2 | 16.5 | 54.5 | 25 |
| 32 | ¾ | **4302703240121** | 43.5 | 31.1 | 18.5 | 62.0 | 25 |
| 32 | 1 | **4302703240321** | 43.5 | 31.1 | 18.5 | 63.5 | 25 |

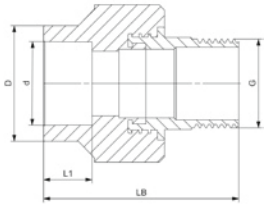
## AQUASYSTEM Female Socket (Hexagon) BSPP-G PP-R





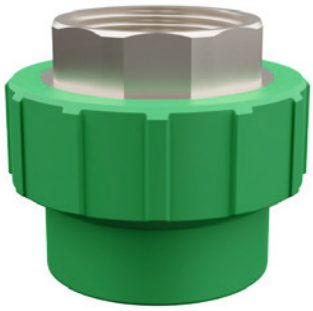

| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 32 | 1 | **4302703227021** | 25 | 43.0 | 31.1 | 18.5 | 56.5 |
| 40 | 1 ¼ | **4302704025121** | 25 | 52.8 | 39.3 | 21.1 | 58.5 |
| 50 | 1 ½ | **4302705025221** | 25 | 65.0 | 48.9 | 26.0 | 62.5 |
| 63 | 2 | **4302706325321** | 25 | 82.5 | 62.0 | 28.0 | 75.8 |
| 75 | 2 ½ | **4302707525421** | 25 | 101.2 | 74.3 | 31.0 | 80.0 |
| 90 | 3 | **4302709028421** | 25 | 119.0 | 88.8 | 35.8 | 98.0 |
| 110 | 4 | **4302711025521** | 25 | 147.0 | 108.9 | 43.0 | 99.3 |

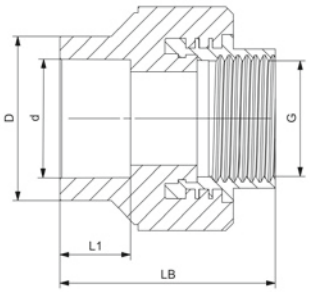





## AQUASYSTEM Male Socket (Hexagon) BSPP-G PP-R

| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 32 | 1 | **4302703227121** | 25 | 43.0 | 31.1 | 18.0 | 72.6 |
| 40 | 1 ¼ | **4302704027121** | 25 | 52.8 | 39.3 | 21.1 | 77.5 |
| 50 | 1 ½ | **4302705027221** | 25 | 65.0 | 48.9 | 26.0 | 81.5 |
| 63 | 2 | **4302706327321** | 25 | 82.5 | 62.0 | 28.0 | 95.3 |
| 75 | 2 ½ | **4302707527421** | 25 | 101.2 | 74.3 | 31.0 | 104.2 |
| 90 | 3 | **4302709029421** | 25 | 119.0 | 88.8 | 35.8 | 122.0 |
| 110 | 4 | **4302711027621** | 25 | 147.0 | 108.9 | 43.0 | 130.4 |

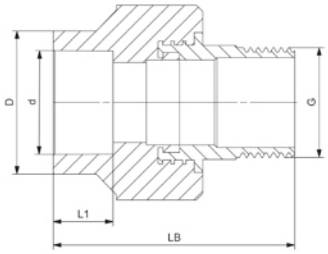





## AQUASYSTEM Female Socket (Hexagon) BSPT-Rp PP-R

| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 32 | 1 | **4302703230621** | 25 | 43.0 | 31.1 | 18.5 | 56.5 |
| 40 | 1 ¼ | **4302704040021** | 25 | 52.8 | 39.3 | 21.1 | 58.5 |
| 50 | 1 ½ | **4302705040021** | 25 | 65.0 | 48.9 | 26.0 | 62.5 |
| 63 | 2 | **4302706340021** | 25 | 82.5 | 62.0 | 28.0 | 75.8 |
| 75 | 2 ½ | **4302707525621** | 25 | 101.2 | 74.3 | 31.0 | 80.0 |
| 90 | 3 | **4302709028621** | 25 | 119.0 | 88.8 | 35.8 | 98.0 |
| 110 | 4 | **4302711025721** | 25 | 147.0 | 108.9 | 43.0 | 99.3 |



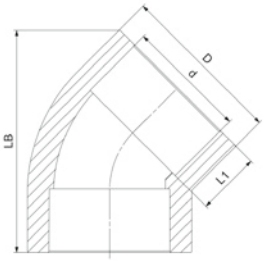



### AQUASYSTEM Male Socket (Hexagon) BSPT-R PP-R

| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 32 | 1 | **4302703230321** | 25 | 43.0 | 31.1 | 18.0 | 72.6 |
| 40 | 1 ¼ | **4302704040121** | 25 | 52.8 | 39.3 | 21.1 | 77.5 |
| 50 | 1 ½ | **4302705040121** | 25 | 65.0 | 48.9 | 26.0 | 81.5 |
| 63 | 2 | **4302706340121** | 25 | 82.5 | 62.0 | 28.0 | 95.3 |
| 75 | 2 ½ | **4302707527621** | 25 | 101.2 | 74.3 | 31.0 | 104.2 |
| 90 | 3 | **4302709029621** | 25 | 119.0 | 88.8 | 35.8 | 122.0 |
| 110 | 4 | **4302711027821** | 25 | 147.0 | 108.9 | 43.0 | 130.4 |

## Bends and Elbows



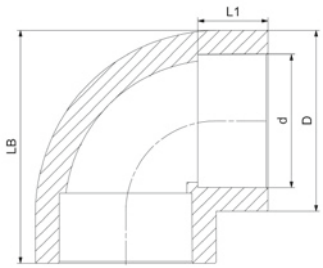



### AQUASYSTEM Elbow 45° PP-R

**Remark:**
There are two alternatives for d160 mm fittings: Butt fusion and Socket fusion fittings. Butt fusion product is SDR 11 and only compatible with same SDR pipes. Socket fusion product could be welded with all type of pipes.

| | Dim. (mm) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| | 20 | **4302102000121** | 25 | 28.0 | 19.3 | 15.0 | 45.2 |
| | 25 | **4302102500221** | 25 | 33.0 | 24.3 | 17.0 | 52.1 |
| | 32 | **4302103200321** | 25 | 42.8 | 31.1 | 18.1 | 59.5 |
| | 40 | **4302104000421** | 25 | 52.6 | 39.0 | 21.0 | 70.2 |
| | 50 | **4302105000521** | 25 | 65.6 | 48.9 | 24.0 | 85.6 |
| | 63 | **4302106300621** | 25 | 83.6 | 62.2 | 27.6 | 103.2 |
| | 75 | **4302107501221** | 25 | 98.6 | 73.4 | 31.0 | 119.7 |
| | 90 | **4302109001322** | 25 | 97.7 | 89.0 | 33.0 | 136.4 |
| | 110 | **4302111001422** | 25 | 117.7 | 108.4 | 37.5 | 158.6 |
| | 125 | **4302112501522** | 25 | 132.7 | 122.8 | 40.5 | 182.7 |
| socket fusion | 160 | **4302116001621** | 20 | 208.0 | 154.6 | 48.0 | 218.4 |
| butt fusion | 160 | **4302116001622** | 10 | 189.0 | 160.0 | 113.0 | 350.0 |



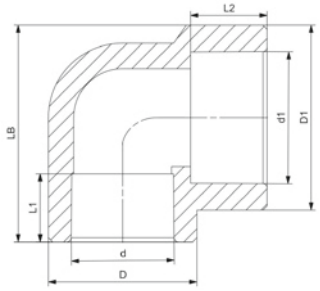



## AQUASYSTEM Elbow 90° PP-R

**Remark:**
There are two alternatives for d160 mm fittings: Butt fusion and Socket fusion fittings. Butt fusion product is SDR 11 and only compatible with same SDR pipes. Socket fusion product could be welded with all type of pipes.

| | Dim. (mm) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| | 20 | **4302102000721** | 25 | 28.0 | 19.2 | 14.5 | 40.0 |
| | 25 | **4302102500821** | 25 | 33.0 | 24.2 | 16.7 | 46.8 |
| | 32 | **4302103200921** | 25 | 41.8 | 31.2 | 18.3 | 55.7 |
| | 40 | **4302104001021** | 25 | 52.6 | 39.0 | 20.5 | 67.5 |
| | 50 | **4302105001121** | 25 | 67.6 | 48.8 | 23.7 | 84.5 |
| | 63 | **4302106301221** | 25 | 85.0 | 62.0 | 27.5 | 103.0 |
| | 75 | **4302107501321** | 25 | 100.0 | 74.2 | 31.0 | 120.0 |
| | 90 | **4302109001421** | 25 | 119.6 | 89.2 | 35.5 | 141.5 |
| | 110 | **4302111001521** | 25 | 144.6 | 108.4 | 41.5 | 170.4 |
| | 125 | **4302112501622** | 25 | 165.0 | 122.6 | 42.0 | 206.5 |
| socket fusion | 160 | **4302116001421** | 20 | 208.0 | 154.6 | 48.0 | 234.5 |
| butt fusion | 160 | **4302116001422** | 10 | 173.0 | 160.0 | 117.0 | 290.0 |

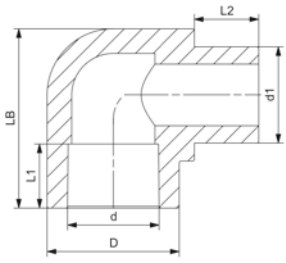





## AQUASYSTEM Reducing Elbow PP-R

| Dim. (mm) | Code | PN (bar) | D (mm) | d (mm) | D1 (mm) | d1 (mm) | L1 (mm) | L2 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 20-25 | **4302402011021** | 25 | 29 | 19.2 | 35.0 | 24.2 | 15.0 | 16.0 | 42.8 |
| 25-32 | **4302402511121** | 25 | 35 | 24.2 | 43.5 | 31.1 | 16.0 | 18.0 | 51.0 |

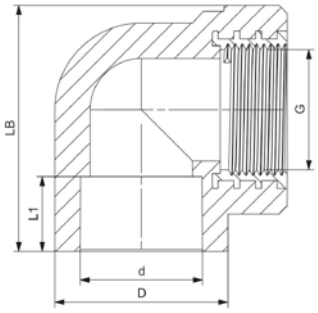





## AQUASYSTEM Elbow 90° Male-Female PP-R

| Dim. (mm) | Code | PN (bar) | D (mm) | d (mm) | d1 (mm) | L1 (mm) | L2 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | **4302102005021** | 25 | 29 | 19.2 | 20 | 16.0 | 16.0 | 41.5 |
| 25 | **4302102505121** | 25 | 35 | 24.2 | 25 | 17.0 | 17.0 | 47.5 |

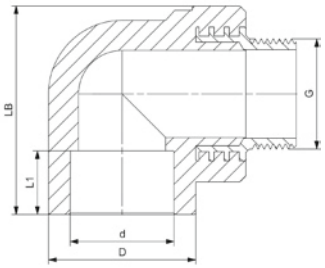





## AQUASYSTEM Female Elbow BSPP-G PP-R

| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302102006021** | 25 | 28.0 | 19.2 | 15.0 | 48.0 |
| 20 | ¾ | **4302102006121** | 25 | 30.0 | 19.2 | 16.0 | 50.0 |
| 25 | ½ | **4302102506221** | 25 | 35.0 | 24.2 | 21.0 | 52.0 |
| 25 | ¾ | **4302102506321** | 25 | 32.5 | 24.2 | 16.5 | 59.0 |
| 32 | ¾ | **4302103206421** | 25 | 44.0 | 31.1 | 19.0 | 62.5 |
| 32 | 1 | **4302103206521** | 25 | 44.0 | 31.1 | 19.0 | 62.5 |

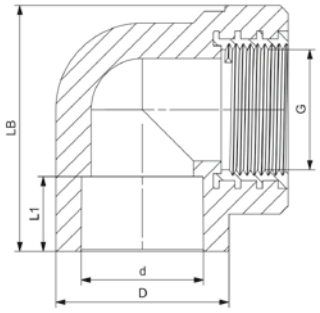





## AQUASYSTEM Male Elbow BSPP-G PP-R

| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302102007021** | 25 | 28.0 | 19.2 | 15.0 | 48.0 |
| 20 | ¾ | **4302102007121** | 25 | 30.0 | 19.2 | 16.0 | 50.0 |
| 25 | ½ | **4302102507221** | 25 | 35.0 | 24.2 | 21.0 | 51.7 |
| 25 | ¾ | **4302102507321** | 25 | 32.5 | 24.2 | 16.5 | 59.0 |
| 32 | ¾ | **4302103207421** | 25 | 44.0 | 31.1 | 19.0 | 62.5 |
| 32 | 1 | **4302103207521** | 25 | 44.0 | 31.1 | 19.0 | 62.3 |

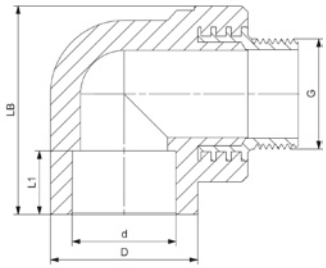





## AQUASYSTEM Female Elbow BSPT-Rp PP-R

| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302102030021** | 25 | 28.0 | 19.2 | 15.0 | 48.0 |
| 20 | ¾ | **4302102030121** | 25 | 30.0 | 19.2 | 16.0 | 50.0 |
| 25 | ½ | **4302102530021** | 25 | 35.0 | 24.2 | 21.0 | 52.0 |
| 25 | ¾ | **4302102530121** | 25 | 32.5 | 24.2 | 16.5 | 59.0 |
| 32 | ¾ | **4302103230021** | 25 | 44.0 | 31.1 | 19.0 | 62.5 |
| 32 | 1 | **4302103230121** | 25 | 44.0 | 31.1 | 19.0 | 62.5 |

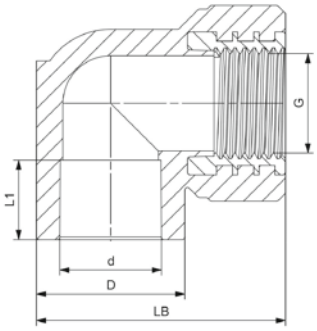





## AQUASYSTEM Male Elbow BSPT-R PP-R

| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302102030221** | 25 | 28.0 | 19.2 | 15.0 | 48.0 |
| 20 | ¾ | **4302102030321** | 25 | 30.0 | 19.2 | 16.0 | 50.0 |
| 25 | ½ | **4302102530221** | 25 | 35.0 | 24.2 | 21.0 | 51.7 |
| 25 | ¾ | **4302102530321** | 25 | 32.5 | 24.2 | 16.5 | 59.0 |
| 32 | ¾ | **4302103230221** | 25 | 44.0 | 31.1 | 19.0 | 62.5 |
| 32 | 1 | **4302103230321** | 25 | 44.0 | 31.1 | 19.0 | 62.3 |

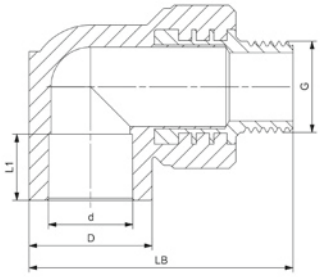





## AQUASYSTEM Female Backplate Elbow Type 2 BSPP-G PP-R

| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302902002021** | 25 | 28.0 | 19.2 | 15.0 | 47.0 |

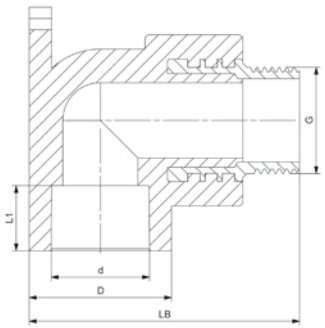





## AQUASYSTEM Male Backplate Elbow Type 2 BSPP-G PP-R

| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302902002121** | 25 | 28.0 | 19.2 | 15.0 | 60.0 |





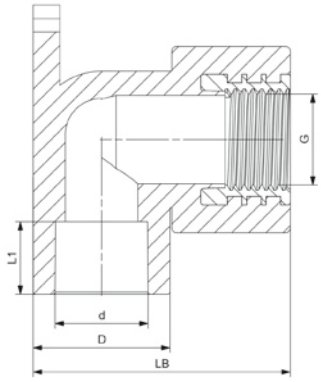

## AQUASYSTEM Male Backplate Elbow Type 3 BSPP-G PP-R

| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 25 | ½ | **4302102509222** | 25 | 35.0 | 24.2 | 16.0 | 66.5 |
| 25 | ¾ | **4302102509221** | 25 | 35.0 | 24.2 | 16.0 | 66.5 |



## AQUASYSTEM Female Backplate Elbow Type 3 BSPP-G PP-R

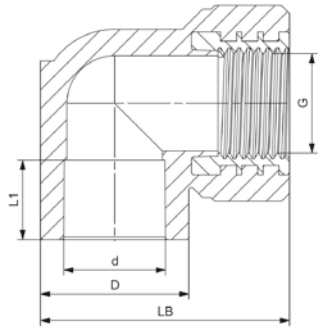
| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ¾ | **4302102008121** | 25 | 28.2 | 19.2 | 15.0 | 53.1 |
| 25 | ½ | **4302102508221** | 25 | 35.0 | 24.2 | 16.5 | 54.0 |
| 25 | ¾ | **4302102508321** | 25 | 35.0 | 24.2 | 16.5 | 54.0 |






## AQUASYSTEM Female Backplate Elbow Type 2 BSPT-Rp PP-R

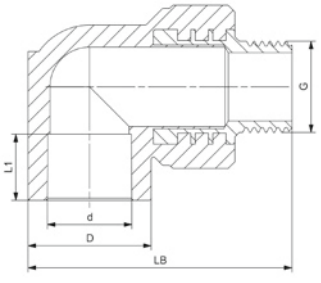
| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302902030721** | 25 | 28.0 | 19.2 | 15.0 | 47.0 |





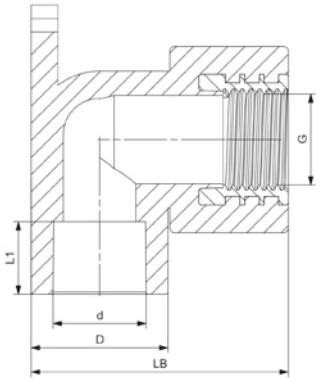

## AQUASYSTEM Male Backplate Elbow Type 2 BSPT-R PP-R

| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302902030621** | 25 | 28.0 | 19.2 | 15.0 | 60.0 |



## AQUASYSTEM Female Backplate Elbow Type 3 BSPT-Rp PP-R

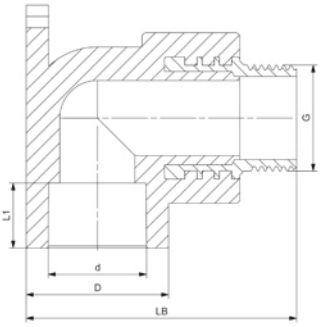





| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ¾ | **4302102030421** | 25 | 28.2 | 19.2 | 15.0 | 53.1 |
| 25 | ½ | **4302102530421** | 25 | 35.0 | 24.2 | 16.5 | 54.0 |
| 25 | ¾ | **4302102530521** | 25 | 35.0 | 24.2 | 16.5 | 54.0 |

## AQUASYSTEM Male Backplate Elbow Type 3 BSPT-R PP-R

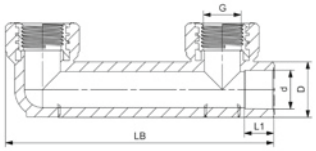





| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 25 | ¾ | **4302102530621** | 25 | 35.0 | 24.2 | 16.0 | 66.5 |

## AQUASYSTEM Female Backplate Elbow 2 Pins Bidet BSPP-G PP-R



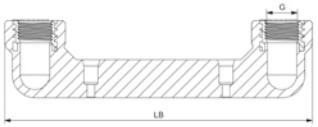



| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302902012321** | 25 | 27.8 | 19.2 | 14.5 | 134.2 |

## AQUASYSTEM Female Backplate Elbow 2 Pins BSPP-G PP-R





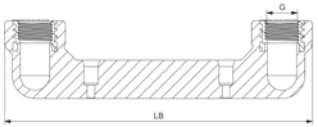


| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302902011021** | 25 | 27.8 | 19.2 | 14.5 | 187.0 |
| 25 | ½ | **4302902503121** | 25 | 33.3 | 24.2 | 16.0 | 187.0 |

## AQUASYSTEM Female Backplate Elbow 2 Pins BSPT-Rp PP-R



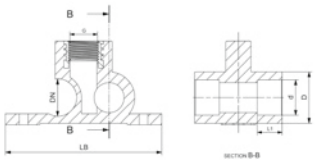




| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302902011221** | 25 | 27.8 | 19.2 | 14.5 | 187.0 |

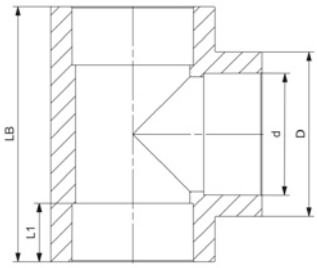
## AQUASYSTEM Backplate Elbow (Double) BSPP-G PP-R





| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 25 | ½ | **4302902502121** | 25 | 35.0 | 24.2 | 17.0 | 107.0 |



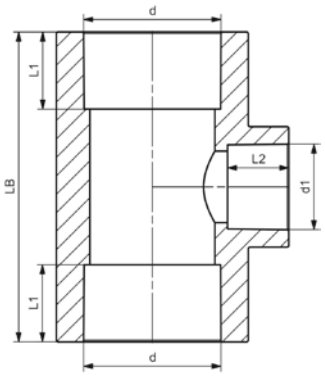



## AQUASYSTEM Tee PP-R

**Remark:**
There are two alternatives for d160 mm fittings: Butt fusion and Socket fusion fittings. Butt fusion product is SDR 11 and only compatible with same SDR pipes. Socket fusion product could be welded with all type of pipes.

| | Dim. (mm) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| | 20 | **4302902008021** | 25 | 27.8 | 19.2 | 14.8 | 51.5 |
| | 25 | **4302902508121** | 25 | 32.5 | 24.2 | 16.0 | 59.0 |
| | 32 | **4302903208221** | 25 | 41.5 | 31.1 | 18.0 | 70.0 |
| | 40 | **4302904008321** | 25 | 54.0 | 39.0 | 21.0 | 87.0 |
| | 50 | **4302905008421** | 25 | 66.2 | 49.0 | 25.5 | 102.5 |
| | 63 | **4302906308521** | 25 | 83.0 | 61.9 | 27.5 | 128.0 |
| | 75 | **4302907508621** | 25 | 98.0 | 73.6 | 30.5 | 140.0 |
| | 90 | **4302909008721** | 25 | 117.5 | 89.0 | 35.5 | 163.8 |
| | 110 | **4302911008821** | 25 | 143.5 | 108.0 | 38.0 | 194.0 |
| | 125 | **4302912508922** | 25 | 165.0 | 123.0 | 40.0 | 248.0 |
| socket fusion | 160 | **4302916009021** | 20 | 208.0 | 154.6 | 48.0 | 260.0 |



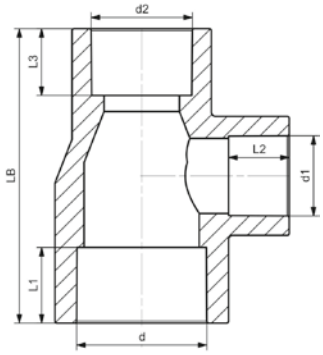



## AQUASYSTEM Reducing Tee PP-R

| Dim. (mm) | Code | PN (bar) | d (mm) | d1 (mm) | L1 (mm) | L2 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 25-20-25 | **4302902520121** | 25 | 24.2 | 19.2 | 16.0 | 14.5 | 59.0 |
| 32-20-32 | **4302903220421** | 25 | 31.1 | 19.2 | 19.2 | 17.2 | 74.0 |
| 32-25-32 | **4302903220621** | 25 | 31.1 | 24.2 | 19.2 | 17.5 | 74.0 |
| 40-20-40 | **4302904020721** | 25 | 39.0 | 19.2 | 21.9 | 17.4 | 88.0 |
| 40-25-40 | **4302904020821** | 25 | 39.0 | 24.3 | 21.9 | 17.4 | 88.0 |
| 40-32-40 | **4302904020921** | 25 | 39.0 | 31.1 | 21.9 | 20.0 | 87.5 |
| 50-20-50 | **4302905021021** | 25 | 48.9 | 19.2 | 26.0 | 18.0 | 106.0 |
| 50-25-50 | **4302905021221** | 25 | 48.9 | 24.4 | 26.0 | 17.0 | 106.0 |
| 50-32-50 | **4302905021321** | 25 | 48.9 | 31.1 | 26.0 | 20.5 | 105.5 |
| 50-40-50 | **4302905021421** | 25 | 48.9 | 39.0 | 23.5 | 20.5 | 107.0 |
| 63-20-63 | **4302906321321** | 25 | 61.9 | 19.2 | 27.5 | 14.5 | 80.0 |
| 63-25-63 | **4302906321421** | 25 | 61.9 | 24.3 | 27.6 | 16.5 | 85.0 |
| 63-32-63 | **4302906321521** | 25 | 61.9 | 31.5 | 27.6 | 18.1 | 91.0 |
| 63-40-63 | **4302906321621** | 25 | 61.9 | 39.4 | 27.6 | 21.1 | 102.5 |
| 63-50-63 | **4302906321721** | 25 | 61.9 | 48.9 | 27.5 | 23.5 | 111.5 |
| 75-20-75 | **4302907521621** | 25 | 73.4 | 19.2 | 30.0 | 14.5 | 138.0 |
| 75-25-75 | **4302907521721** | 25 | 73.4 | 24.2 | 30.0 | 16.0 | 138.0 |
| 75-32-75 | **4302907521821** | 25 | 73.4 | 31.1 | 30.0 | 18.0 | 138.0 |
| 75-40-75 | **4302907521921** | 25 | 73.4 | 39.0 | 30.0 | 20.5 | 138.0 |
| 75-50-75 | **4302907522021** | 25 | 73.4 | 48.9 | 30.0 | 23.5 | 138.0 |
| 75-63-75 | **4302907522121** | 25 | 73.4 | 61.9 | 30.0 | 27.5 | 138.0 |
| 90-63-90 | **4302409021622** | 25 | 88.2 | 61.9 | 33.0 | 27.5 | 145.6 |
| 90-75-90 | **4302909021722** | 25 | 88.2 | 73.4 | 33.0 | 30.0 | 152.4 |
| 110-63-110 | **4302411021522** | 25 | 108.0 | 61.9 | 37.0 | 27.5 | 174.5 |
| 110-75-110 | **4302911021622** | 25 | 108.0 | 73.4 | 37.0 | 31.3 | 192.5 |
| 110-90-110 | **4302911021722** | 25 | 108.0 | 88.3 | 37.0 | 33.8 | 188.2 |
| 125-75-125 | **4302412521622** | 25 | 122.4 | 73.4 | 40.0 | 30.0 | 200.2 |
| 125-90-125 | **4302412521722** | 25 | 122.4 | 88.2 | 40.0 | 33.0 | 218.6 |

## AQUASYSTEM Reducing Tee Type 2 PP-R

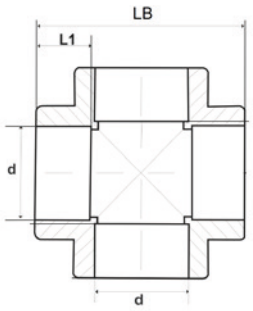





| Dim. (mm) | Code | PN (bar) | d (mm) | d1 (mm) | d2 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 25-20-20 | **4302902520021** | 25 | 24.2 | 19.2 | 19.2 | 16.0 | 14.5 | 14.5 | 57.0 |
| 32-20-20 | **4302903220221** | 25 | 31.1 | 19.2 | 19.2 | 18.1 | 14.5 | 14.5 | 69.0 |
| 32-20-25 | **4302903220321** | 25 | 31.1 | 19.2 | 24.2 | 18.1 | 14.5 | 16.0 | 70.5 |
| 32-25-20 | **4302903220521** | 25 | 31.1 | 24.2 | 19.2 | 18.1 | 16.0 | 14.5 | 69.0 |

## AQUASYSTEM Cross PP-R

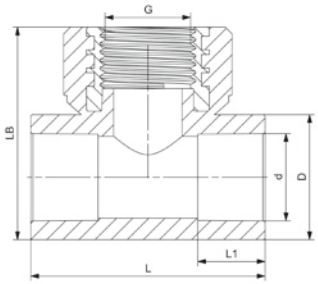





| Dim. (mm) | Code | PN (bar) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|
| 20 | **4302902060022** | 25 | 19.2 | 16.0 | 56.0 |
| 25 | **4302902560122** | 25 | 24.2 | 20.0 | 70.0 |
| 32 | **4302903260222** | 25 | 31.1 | 20.0 | 80.0 |
| 40 | **4302904060322** | 25 | 39.0 | 20.6 | 84.5 |

## AQUASYSTEM Tee Female BSPP-G PP-R

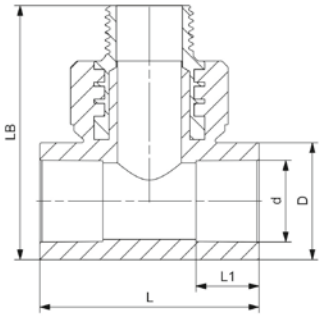





| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | L (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302902010021** | 25 | 27.5 | 19.2 | 14.8 | 51.5 | 46.8 |
| 20 | ¾ | **4302902010121** | 25 | 29.8 | 19.2 | 14.8 | 59.0 | 50.9 |
| 25 | ½ | **4302902510221** | 25 | 33.0 | 24.2 | 16.0 | 59.0 | 54.5 |
| 25 | ¾ | **4302902510321** | 25 | 33.0 | 24.2 | 16.0 | 59.0 | 54.5 |
| 32 | ¾ | **4302903210421** | 25 | 42.0 | 31.1 | 18.5 | 75.0 | 69.0 |
| 32 | 1 | **4302903210521** | 25 | 42.0 | 31.1 | 18.5 | 74.5 | 69.0 |

## AQUASYSTEM Tee Male BSPP-G PP-R

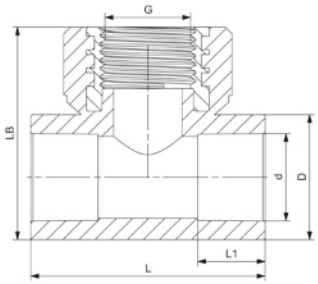





| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | L (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302902012021** | 25 | 27.5 | 19.2 | 14.8 | 51.5 | 59.8 |

## AQUASYSTEM Tee Female BSPT-Rp PP-R



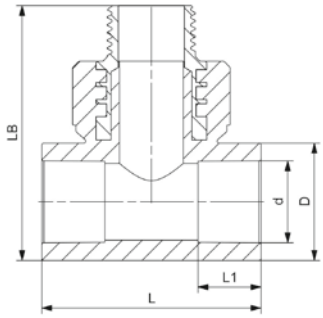



| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | L (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302902030021** | 25 | 27.5 | 19.2 | 14.8 | 51.5 | 46.8 |
| 20 | ¾ | **4302902030121** | 25 | 29.8 | 19.2 | 14.8 | 59.0 | 50.9 |
| 25 | ½ | **4302902530021** | 25 | 33.0 | 24.2 | 16.0 | 59.0 | 54.5 |
| 25 | ¾ | **4302902530121** | 25 | 33.0 | 24.2 | 16.0 | 59.0 | 54.5 |
| 32 | ¾ | **4302903230021** | 25 | 42.0 | 31.1 | 18.5 | 75.0 | 69.0 |
| 32 | 1 | **4302903230121** | 25 | 42.0 | 31.1 | 18.5 | 74.5 | 69.0 |



### AQUASYSTEM Tee Male BSPT-R PP-R

| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | L (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302902030221** | 25 | 27.5 | 19.2 | 14.8 | 51.5 | 59.8 |

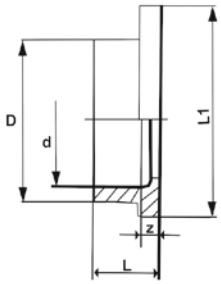



## Adaptors and Transitions



### AQUASYSTEM Flange Adaptor PP-R

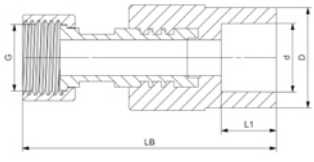
| Remarks | Dim. (mm) | Code | PN (bar) | D (mm) | L (mm) | L1 (mm) | Z (mm) |
|---|---|---|---|---|---|---|---|
| | 25 | **4302902533022** | 10 | 33.0 | 23.0 | 41.0 | 5.0 |
| | 32 | **4302903233022** | 10 | 41.0 | 25.0 | 50.0 | 5.0 |
| | 40 | **4302904033022** | 10 | 50.0 | 27.0 | 61.0 | 5.0 |
| | 50 | **4302905033022** | 10 | 61.0 | 33.0 | 74.0 | 8.0 |
| | 63 | **4302906333022** | 10 | 76.0 | 37.0 | 91.0 | 8.0 |
| | 75 | **4302907533022** | 10 | 90.0 | 39.0 | 107.0 | 8.0 |
| | 90 | **4302909033022** | 10 | 106.0 | 46.0 | 126.0 | 10.0 |
| | 110 | **4302911033022** | 10 | 131.0 | 49.0 | 150.0 | 7.0 |
| | 125 | **4302912533022** | 10 | 146.0 | 55.0 | 162.0 | 17.5 |
| butt fusion | 160 | **4302916033022** | 10 | 160.0 | 175.0 | 212.0 | 25.0 |

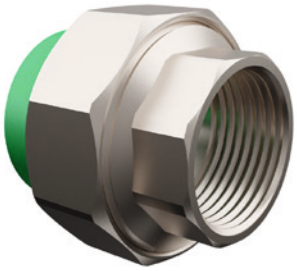


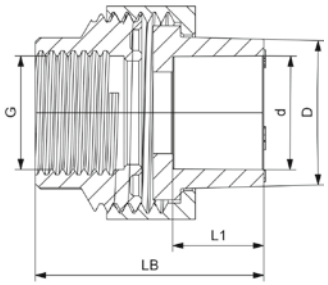



### AQUASYSTEM Transition With Loose Nut BSPP-G PP-R

| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302902013021** | 25 | 28.0 | 19.2 | 15.4 | 71.2 |
| 25 | ¾ | **4302902513221** | 25 | 34.0 | 24.2 | 16.5 | 73.0 |
| 25 | 1 | **4302902513321** | 25 | 35.2 | 24.2 | 16.8 | 73.8 |

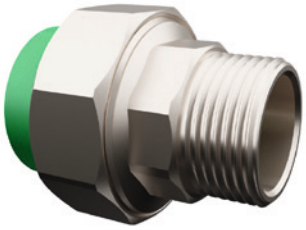


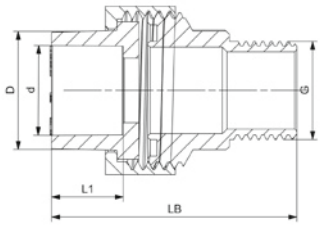





## AQUASYSTEM Transition Joint Hexagonal Female BSPP-G PP-R

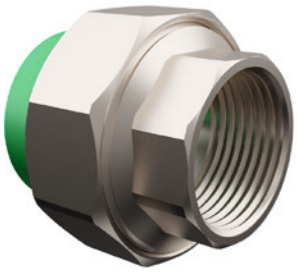
| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302702003021** | 25 | 25.2 | 19.2 | 15.4 | 38.6 |
| 20 | ¾ | **4302902003121** | 25 | 25.2 | 19.2 | 15.4 | 41.1 |
| 25 | ¾ | **4302702503121** | 25 | 32.8 | 24.3 | 18.5 | 44.1 |
| 32 | 1 | **4302703203521** | 25 | 39.9 | 31.2 | 20.5 | 50.1 |
| 40 | 1 ¼ | **4302904005021** | 25 | 49.7 | 39.0 | 23.9 | 58.7 |
| 50 | 1 ½ | **4302905005121** | 25 | 57.9 | 48.9 | 24.0 | 58.9 |
| 63 | 2 | **4302906305221** | 25 | 73.6 | 61.9 | 27.5 | 66.1 |

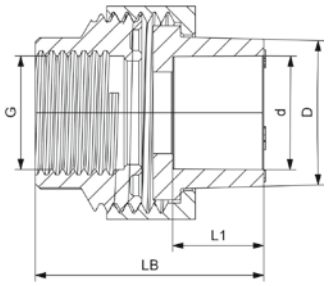





## AQUASYSTEM Transition Joint Hexagonal Male BSPP-G PP-R

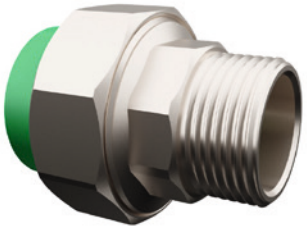
| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ¾ | **4302902004121** | 25 | 25.2 | 19.2 | 15.4 | 56.1 |
| 25 | ¾ | **4302702504321** | 25 | 32.8 | 24.3 | 18.5 | 59.1 |
| 32 | 1 | **4302703204521** | 25 | 39.9 | 31.2 | 20.5 | 65.1 |
| 40 | 1 ¼ | **4302904005321** | 25 | 49.7 | 39.0 | 23.9 | 76.5 |

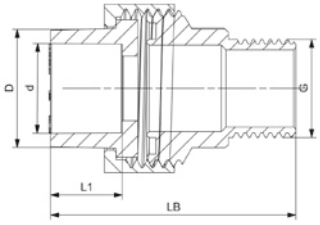





## AQUASYSTEM Transition Joint Hexagonal Female BSPT-Rp PP-R

| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302702030421** | 25 | 25.2 | 19.2 | 15.4 | 38.6 |
| 20 | ¾ | **4302902030321** | 25 | 25.2 | 19.2 | 15.4 | 41.1 |
| 50 | 1 ½ | **4302905030021** | 25 | 57.9 | 48.9 | 24.0 | 58.9 |
| 63 | 2 | **4302906330021** | 25 | 73.6 | 61.9 | 27.5 | 66.1 |



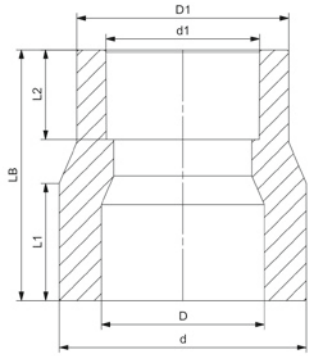



### AQUASYSTEM Transition Joint Hexagonal Male BSPT-R PP-R

| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302702030521** | 25 | 25.2 | 19.2 | 15.4 | 52.6 |
| 20 | ¾ | **4302902030421** | 25 | 25.2 | 19.2 | 15.4 | 56.1 |
| 25 | ¾ | **4302702530121** | 25 | 32.8 | 24.3 | 18.5 | 59.1 |
| 32 | 1 | **4302703230121** | 25 | 39.9 | 31.2 | 20.5 | 65.1 |
| 40 | 1 ¼ | **4302904030121** | 25 | 49.7 | 39.0 | 23.9 | 76.5 |
| 50 | 1 ½ | **4302905030121** | 25 | 57.9 | 48.9 | 24.0 | 79.3 |
| 63 | 2 | **4302906330121** | 25 | 73.6 | 61.9 | 27.5 | 82.0 |

## Reducers





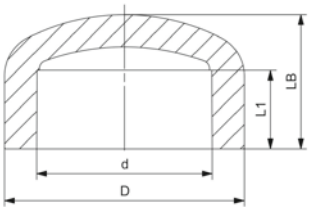

### AQUASYSTEM Reducer PP-R

**Remark:**
There are two alternatives for d160 mm fittings: Butt fusion and Socket fusion fittings. Butt fusion product is SDR 11 and only compatible with same SDR pipes. Socket fusion product could be welded with all type of pipes.

| | Dim. (mm) | Code | PN (bar) | D (mm) | d (mm) | D1 (mm) | d1 (mm) | L1 (mm) | L2 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 25-20 | **4302402510021** | 25 | 16.3 | 25.0 | 28.0 | 19.2 | 18.5 | 15.5 | 36.0 |
| | 32-20 | **4302403210121** | 25 | 20.9 | 32.0 | 29.0 | 19.2 | 21.0 | 14.5 | 41.5 |
| | 32-25 | **4302403210221** | 25 | 21.4 | 32.0 | 33.8 | 24.2 | 19.6 | 16.0 | 38.2 |
| | 40-20 | **4302404010321** | 25 | 30.8 | 40.0 | 29.0 | 19.2 | 26.8 | 16.0 | 45.8 |
| | 40-25 | **4302404010421** | 25 | 30.8 | 40.0 | 34.0 | 24.2 | 27.0 | 19.0 | 46.5 |
| | 40-32 | **4302404010521** | 25 | 31.0 | 40.0 | 42.5 | 31.1 | 26.7 | 20.0 | 47.0 |
| | 50-20 | **4302405010621** | 25 | 33.2 | 50.0 | 26.5 | 19.2 | 23.5 | 14.5 | 47.5 |
| | 50-25 | **4302405010721** | 25 | 33.2 | 50.0 | 33.0 | 24.2 | 23.5 | 16.0 | 48.5 |
| | 50-32 | **4302405010821** | 25 | 33.2 | 50.0 | 41.5 | 31.1 | 23.5 | 18.1 | 50.7 |
| | 50-40 | **4302405010921** | 25 | 33.4 | 50.0 | 52.0 | 39.0 | 23.5 | 20.5 | 53.8 |
| | 63-25 | **4302406311021** | 25 | 42.0 | 63.0 | 33.0 | 24.2 | 27.5 | 16.5 | 55.3 |
| | 63-32 | **4302406311121** | 25 | 41.8 | 63.0 | 41.5 | 31.1 | 27.5 | 18.1 | 58.0 |
| | 63-40 | **4302406311221** | 25 | 42.0 | 63.3 | 52.0 | 39.0 | 27.5 | 20.7 | 60.5 |
| | 63-50 | **4302406311321** | 25 | 43.0 | 63.0 | 65.5 | 48.9 | 27.5 | 32.2 | 63.0 |
| | 75-50 | **4302407511421** | 25 | 50.0 | 75.0 | 66.0 | 48.9 | 30.0 | 24.0 | 68.0 |
| | 75-63 | **4302407511521** | 25 | 51.5 | 75.0 | 82.4 | 61.9 | 30.0 | 28.0 | 71.5 |
| | 90-50 | **4302409011521** | 25 | 60.0 | 90.0 | 66.0 | 48.9 | 40.0 | 23.5 | 68.0 |
| | 90-63 | **4302409011621** | 25 | 60.0 | 90.0 | 84.0 | 61.9 | 41.0 | 27.5 | 75.0 |
| | 90-75 | **4302409011721** | 25 | 59.0 | 90.0 | 98.0 | 73.4 | 41.0 | 30.5 | 81.0 |
| | 110-63 | **4302411011721** | 25 | 70.8 | 110.0 | 84.0 | 61.9 | 45.0 | 28.0 | 82.0 |
| | 110-75 | **4302411011821** | 25 | 72.0 | 110.0 | 98.5 | 73.4 | 45.0 | 31.0 | 87.0 |
| | 110-90 | **4302411011921** | 25 | 75.0 | 110.0 | 118.5 | 89.0 | 45.0 | 35.5 | 92.0 |
| | 125-75 | **4302412512022** | 25 | 78.2 | 125.0 | 124.2 | 73.4 | 40.0 | 30.0 | 98.0 |
| | 125-90 | **4302412512122** | 25 | 82.4 | 125.0 | 136.4 | 88.2 | 40.0 | 33.0 | 102.0 |
| | 125-110 | **4302412512222** | 25 | 84.3 | 125.0 | 142.9 | 108.6 | 52.0 | 37.7 | 105.2 |
| | 160-110 | **4302416011921** | 20 | 106.8 | 160.0 | 144.5 | 108.0 | 50.0 | 37.0 | 90.0 |
| butt fusion | 160-125 | **4302416012322** | 10 | 130.8 | 160.0 | 125.0 | 102.2 | 113.0 | 95.0 | 260.0 |

# Caps and End Caps

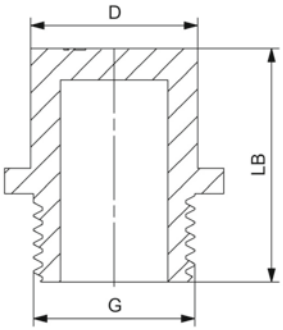





## AQUASYSTEM End Cap PP-R

| Dim. (mm) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|
| 20 | **4302902006021** | 25 | 28.0 | 19.2 | 14.5 | 22.5 |
| 25 | **4302902506121** | 25 | 33.5 | 24.2 | 17.0 | 26.5 |
| 32 | **4302903206221** | 25 | 42.0 | 31.1 | 19.0 | 30.3 |
| 40 | **4302904006321** | 25 | 52.0 | 39.0 | 20.5 | 39.0 |
| 50 | **4302905006421** | 25 | 65.0 | 48.9 | 23.5 | 45.4 |
| 63 | **4302906306521** | 25 | 83.0 | 61.9 | 28.0 | 44.9 |
| 75 | **4302907506621** | 25 | 99.0 | 73.4 | 31.0 | 50.7 |
| 90 | **4302909006821** | 25 | 119.4 | 90.0 | 35.5 | 59.8 |
| 110 | **4302911006721** | 25 | 143.8 | 108.0 | 41.5 | 69.9 |



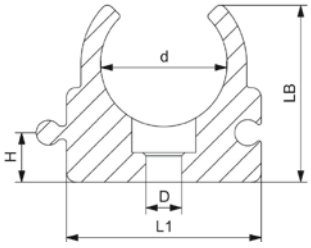



## AQUASYSTEM Blind Cap PP-R

| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | LB (mm) |
|---|---|---|---|---|---|
| 20 | ½ | **4302902014021** | 25 | 21.8 | 30.4 |
| 25 | ¾ | **4302902514121** | 25 | 23.8 | 35.2 |

# Clamps



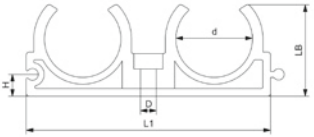



## AQUASYSTEM Single Clamp PP-R

**Remark:**
*without cap ** with cap

| Remarks | Dim. (mm) | Code | PN (bar) | d (mm) | D (mm) | L1 (mm) | H (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|---|
| * | 20 | **4302902025021** | 25 | 20 | 5.5 | 33.0 | 6.9 | 32.5 |
| * | 25 | **4302902525121** | 25 | 25 | 5.5 | 37.0 | 7.5 | 37.5 |
| * | 32 | **4302903225221** | 25 | 32 | 5.5 | 43.0 | 8.0 | 47.5 |
| * | 40 | **4302904025322** | 25 | 40 | 5.5 | 48.0 | 14.4 | 55.0 |
| ** | 50 | **4302905025422** | 25 | 50 | 5.5 | 64.0 | 11.2 | 56.0 |
| ** | 63 | **4302906331622** | 25 | 63 | 7.5 | 82.0 | 14.2 | 79.0 |
| ** | 75 | **4302907525522** | 25 | 75 | 7.5 | 93.0 | 16.6 | 93.0 |
| ** | 90 | **4302909009022** | 25 | 90 | 7.5 | 115.0 | 16.7 | 120.0 |
| ** | 110 | **4302911009022** | 25 | 110 | 7.5 | 134.0 | 16.4 | 124.0 |



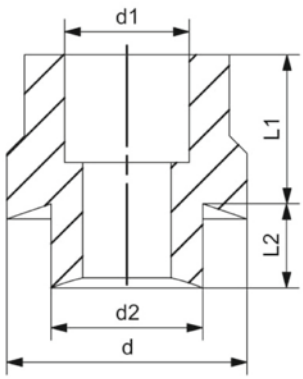



## AQUASYSTEM Double Clamp PP-R

| Dim. (mm) | Code | PN (bar) | d (mm) | D (mm) | L1 (mm) | H (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 20 | **4302902025521** | 25 | 20.0 | 6.0 | 70.0 | 7.6 | 28.0 |
| 25 | **4302902525621** | 25 | 25.0 | 6.0 | 83.0 | 7.5 | 33.0 |
| 32 | **4302903225722** | 25 | 32.0 | 6.0 | 90.0 | 6.3 | 36.0 |

# Saddles

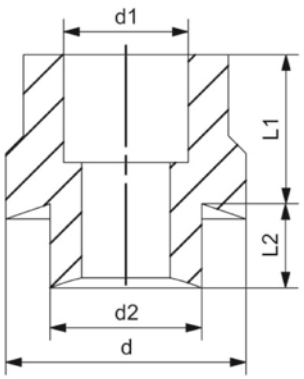





## AQUASYSTEM Saddle With Spigot PP-R

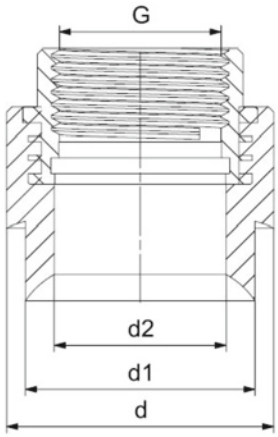
| d - d1 (mm) | Code | PN (bar) | L1 (mm) | d2 (mm) | L2 (mm) |
|---|---|---|---|---|---|
| 40 - 20 | **4302904090022** | 25 | 20.0 | 22.0 | 7.0 |
| 40 - 25 | **4302904090122** | 25 | 27.0 | 22.0 | 7.0 |
| 50 - 20 | **4302905090022** | 25 | 20.0 | 22.0 | 8.0 |
| 50 - 25 | **4302905090122** | 25 | 27.0 | 22.0 | 8.0 |
| 63 - 20 | **4302906390022** | 25 | 20.0 | 22.0 | 10.0 |
| 63 - 25 | **4302906390122** | 25 | 27.0 | 22.0 | 10.0 |
| 63 - 32 | **4302906390222** | 25 | 30.0 | 32.0 | 10.0 |
| 75 - 20 | **4302907590022** | 25 | 20.0 | 22.0 | 10.0 |
| 75 - 25 | **4302907590122** | 25 | 27.0 | 22.0 | 10.0 |
| 75 - 32 | **4302907590222** | 25 | 30.0 | 32.0 | 10.0 |
| 75 - 40 | **4302907590322** | 25 | 30.0 | 32.0 | 15.0 |
| 90 - 20 | **4302909090022** | 25 | 20.0 | 22.0 | 15.0 |
| 90 - 25 | **4302909090122** | 25 | 27.0 | 22.0 | 15.0 |
| 90 - 32 | **4302909090222** | 25 | 30.0 | 32.0 | 15.0 |
| 90 - 40 | **4302909090322** | 25 | 30.0 | 32.0 | 15.0 |
| 110 - 20 | **4302911090022** | 25 | 20.0 | 22.0 | 15.0 |
| 110 - 25 | **4302911090122** | 25 | 27.0 | 22.0 | 15.0 |
| 110 - 32 | **4302911090222** | 25 | 30.0 | 32.0 | 15.0 |
| 110 - 40 | **4302911090322** | 25 | 30.0 | 32.0 | 15.0 |

table continued on the next page




| d - d1 (mm) | Code | PN (bar) | L1 (mm) | d2 (mm) | L2 (mm) |
|---|---|---|---|---|---|
| 125 - 20 | **4302912590022** | 25 | 27.0 | 22.0 | 15.0 |
| 125 - 25 | **4302912590122** | 25 | 30.0 | 22.0 | 15.0 |
| 125 - 32 | **4302912590222** | 25 | 30.0 | 32.0 | 15.0 |
| 125 - 40 | **4302912590322** | 25 | 30.0 | 32.0 | 15.0 |



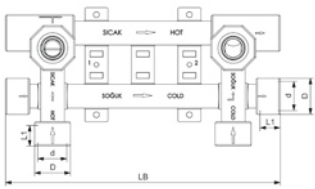



### AQUASYSTEM Saddle With Spigot Female BSPP-G PP-R

| Dim. (mm) | G (inch) | Code | PN (bar) | d (mm) | d1 (mm) | d2 (mm) |
|---|---|---|---|---|---|---|
| 40 | ½ | **4302904091122** | 25 | 40 | 22.0 | 13 |
| 50 | ½ | **4302905091122** | 25 | 50 | 22.0 | 13 |
| 50 | ¾ | **4302905091022** | 25 | 50 | 32.0 | 21 |
| 63 | ½ | **4302906391122** | 25 | 63 | 22.0 | 13 |
| 63 | ¾ | **4302906391022** | 25 | 63 | 32.0 | 21 |
| 75 | ½ | **4302907591122** | 25 | 75 | 22.0 | 13 |
| 75 | ¾ | **4302907591022** | 25 | 75 | 32.0 | 21 |
| 75 | 1 | **4302907591222** | 25 | 75 | 32.0 | 22 |
| 90 | ½ | **4302909091122** | 25 | 90 | 22.0 | 13 |
| 90 | ¾ | **4302909091022** | 25 | 90 | 32.0 | 21 |
| 90 | 1 | **4302909091222** | 25 | 90 | 32.0 | 22 |
| 110 | ½ | **4302911091122** | 25 | 110 | 22.0 | 13 |
| 110 | ¾ | **4302911091022** | 25 | 110 | 32.0 | 21 |
| 110 | 1 | **4302911091222** | 25 | 110 | 32.0 | 22 |
| 125 | ½ | **4302912591122** | 25 | 125 | 22.0 | 14 |
| 125 | ¾ | **4302912591022** | 25 | 125 | 32.0 | 22 |
| 125 | 1 | **4302912591222** | 25 | 125 | 32.0 | 22 |

## Monifolds / Distrubutors





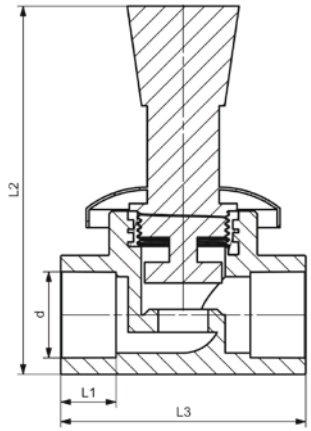
### AQUASYSTEM Distribution Manifold 6 Ported BSPP-G PP-R

| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302902002321** | 25 | 30.8 | 19.2 | 14.5 | 235.7 |

### AQUASYSTEM Lux Chromium Valve Long PP-R



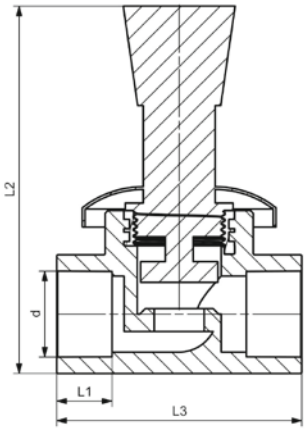
| Dim. (mm) | G (inch) | Code | PN (bar) | d (mm) | L1 (mm) | L2 (mm) | L3 (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302802040221** | 20 | 20 | 16.0 | 115.0 | 68.0 |
| 25 | ¾ | **4302802540421** | 20 | 25 | 19.0 | 124.0 | 78.0 |
| 32 | 1 | **4302803240621** | 20 | 32 | 20.0 | 135.0 | 88.0 |



## AQUASYSTEM Chromium Valve Long PP-R



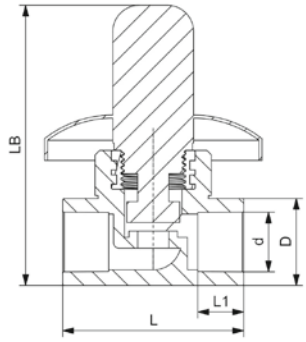
| Dim. (mm) | G (inch) | Code | PN (bar) | d (mm) | L1 (mm) | L2 (mm) | L3 (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302802040121** | 20 | 20 | 16.0 | 115.0 | 68.0 |
| 25 | ¾ | **4302802540321** | 20 | 25 | 19.0 | 125.0 | 78.0 |
| 32 | 1 | **4302803240521** | 20 | 32 | 20.0 | 135.0 | 88.0 |

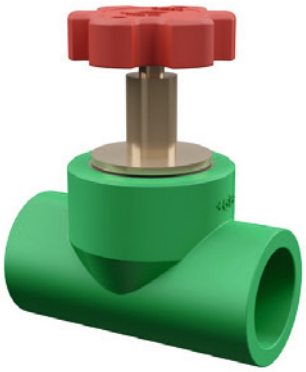



## AQUASYSTEM Chromium Valve Short PP-R



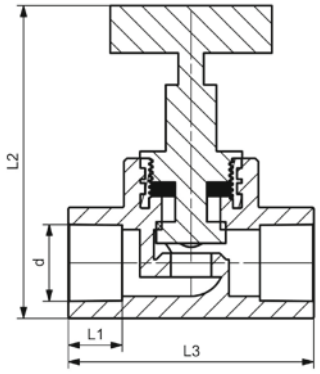
| Dim. (mm) | G (inch) | Code | PN (bar) | d (mm) | D (mm) | L1 (mm) | L (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302802040021** | 20 | 19.2 | 28.0 | 14.8 | 59.2 | 90.2 |
| 25 | ¾ | **4302802540221** | 20 | 24.2 | 35.0 | 17.0 | 77.5 | 96.8 |
| 32 | 1 | **4302803240421** | 20 | 31.1 | 43.0 | 20.0 | 88.0 | 103.0 |





### AQUASYSTEM Gate Valve PP-R

| Dim. (mm) | G (inch) | Code | PN (bar) | d (mm) | L1 (mm) | L2 (mm) | L3 (mm) |
|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302802035021** | 20 | 19.2 | 14.8 | 94.8 | 59.2 |
| 25 | ¾ | **4302802535121** | 20 | 24.2 | 17.0 | 98.7 | 77.5 |
| 32 | 1 | **4302803235221** | 20 | 31.1 | 20.0 | 107.2 | 88.0 |




## Plastic Valves

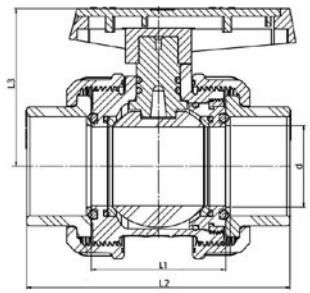


### AQUASYSTEM Special Ball Valve (Union) PP-R

**Attention:**

- PN10 cold water applications only.

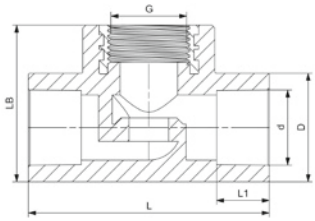
| | Dim. (mm) | Code | PN (bar) | d (mm) | L1 (mm) | L2 (mm) | L3 (mm) |
|---|---|---|---|---|---|---|---|
| * | 20 | **4302802042522** | 10 | 20 | 45.0 | 83.0 | 48.0 |
| * | 25 | **4302802542622** | 10 | 25 | 51.0 | 95.0 | 55.0 |
| * | 32 | **4302803242722** | 10 | 32 | 55.0 | 105.0 | 65.0 |
| * | 40 | **4302804043122** | 10 | 40 | 64.0 | 122.0 | 76.0 |
| * | 50 | **4302805043222** | 10 | 50 | 75.0 | 143.0 | 87.0 |
| * | 63 | **4302806343322** | 10 | 63 | 85.0 | 167.0 | 101.0 |





### AQUASYSTEM Valve Stem PP-R

| Dim. (mm) | G (inch) | Code | PN (bar) | D (mm) | d (mm) | L1 (mm) | L (mm) | LB (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | ½ | **4302802042021** | 20 | 28.0 | 19.1 | 14.8 | 58.2 | 43.5 |
| 25 | ¾ | **4302802542121** | 20 | 35.0 | 24.2 | 17.0 | 77.5 | 50.5 |
| 32 | 1 | **4302803242221** | 20 | 43.0 | 31.1 | 20.0 | 88.5 | 59.0 |




# Jointing and Tools

## Fusion Machines



### PP-R Welding Machine Set

**Remark:**
Welding Range: d20-d75 mm
Set Contents: Welding Machine, Aluminum Clamp Foot, Scale, Allen Wrenches, Meter, Die Sets (20mm – 25mm – 32mm – 40mm), Pipe cutter

| Code |
|---|
| **4301900044282** |



### PP-R Welding Machine Set

**Remark:**
Welding Range: d20-d63 mm
Set Contents: Welding Machine, Aluminum Foot, Pipe Cutter, Allen Wrenches, Meter, Die Sets (20mm, 25mm, 32mm,40mm) 1000 watt 120 volt

| | Code |
|---|---|
| 1000 watt / 120V | **4301900044682** |
| 1500 watt / 220V | **4301900044082** |



### PP-R Welding Machine Set - d50-125 mm

**Remark:**
Welding Range: d50-d125 mm
(no die sets include, you should buy die sets separately)
Set Contents: Welding Machine, Clamping Foot, Allen Wrenches, Meter

| Code |
|---|
| **4301900045082** |



### PP-R Welding Machine - d50-125 mm

**Remark:**
Welding Range: d50-d125 mm
(no die sets include, you should buy die sets separately)
Set Contents: Welding Machine, Aluminum Foot

| | Code |
|---|---|
| Single (50-125mm) | **4301900044382** |



### PP-R Welding Machine Bench Type

**Remark:**
Welding range is d50-d160 mm.
Includes all die sets: d50 mm, d63 mm, d90 mm, d110 mm, d125 mm, d160 mm
Set Contents: Diameter Selector, Jaw Locking Lever, Jaw, Socket, Heater, Lever For Heating Movement, Hand Wheels For Locking - Unlocking Pipe, Handle For Lifting, Knob For Pipe Position, Hand Wheels For Carriages Movement, Machine Body Trolley, Stand Transport Wheel, Sockets, Tool Bag, Break Wheel

| Code |
|---|
| **4301900045982** |



### PP-R Welding Moulds

| DN (mm) | Code |
|---|---|
| 20 | **4301902045082** |
| 25 | **4301902545182** |
| 32 | **4301903245282** |
| 40 | **4301904045382** |
| 50 | **4301905045482** |
| 63 | **4301906345582** |
| 75 | **4301907545682** |
| 90 | **4301909045782** |
| 110 | **4301911045882** |
| 160 | **4301916046082** |

## Peeling and Chamfering Tools



### PP-R Sharpener Metal

| DN (mm) | Code |
|---|---|
| 20-25 | **4301902040082** |
| 32-40 | **4301903240182** |
| 50-63 | **4301905040282** |
| 75-90 | **4301907540382** |
| 110 | **4301911042482** |

## PP-R Sharpener Plastic



| DN (mm) | Code |
|---|---|
| 20-25 | **4300902041022** |
| 32-40 | **4300903241122** |

# Machines & Tools



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Utility Range

# MSA Machines

## Product Range Overview

| Characteristic |  MSA 160 |  MSA 315 |  MSA 340 | MSA 2.0 |  MSA 2.1 | MSA 2 MULTI |  MSA 2 CF |  MSA 4.0 |
|---|---|---|---|---|---|---|---|---|
| Fittings material | PE,PP | PE,PP | PE,PP | PE,PP | PE,PP | PE,PP,PB, PVDF | PE,PP,PB, PVDF | PE,PP |
| Working temperature range (°C) | -10/+45 | -10/+45 | -10/+45 | -20/+50 | -20/+50 | -20/+50 | -20/+50 | -20/+50 |
| Protection factor | IP54 | IP65 | IP65 | IP65 | IP65 | IP65 | IP65 | IP65 |
| Electrical switch | √ | √ | √ | | √ | | √ | √ |
| Input voltage (Vac) | 230 | 230 | 230/115 | 230 | 230 | 230 | 115 | 230 |
| Output voltage (Vac) | 8-42 | 8-42 | 8-48 | 8-48 | 8-48 | 3.6-40 | 3.6-40 | 8-48 |
| Output current (Amps) | 50 | 70 | 100 | 90 | 90 | 90 | 90 | 110 |
| Barcode input via scanner | Optional | Optional | √ | √ | √ | √ | √ | √ |
| Manual fusion input | √ | √ | √ | √ | √ | √ | √ | √ |
| Operator badge/Job code | | √ | √ | | √ | √ | √ | √ |
| Data records | 500 | 500 | 1000 | 350 | 1000 | 500 | 1000 | 5000 |
| Data protocol format | PDF, CSV | PDF, CSV | PDF, CSV | | PDF, BIN | PDF, BIN | PDF, BIN | PDF, BIN |
| Traceability (ISO 12176-4) | | | √ | | | | | √ |
| GPS | | | √ | | | | | √ |
| Communication interface | USB | USB | USB | USB | USB | USB | USB | USB |
| Built in Bluetooth | | | | | √ | | | √ |
| Configurable/admin. protected menus | | | √ | | √ | | √ | √ |
| Weight (Kg) | 13 | 17 | 19 | 11.9 | 11.9 | 11.9 | 12.5 | 12.5 |
| Mains / fusion cable length | 4m/3m | 4m/3m | 4m/4m | 4m/3m | 4m/4m | 4m/3m | 4m/4m | 4m/4m |
| Connectors / adapters | 4mm | 4mm | 4-4.7mm | 4mm | 4-4.7mm | 4mm | 4mm | 4-4.7mm |
| Transport box | √ | Optional | Optional | √ | √ | √ | √ | √ |
| Welding book application | Optional | Optional | Optional | | √ | √ | √ | √ |
| WeldinAir | | | Optional | Optional | | | Optional | |
| Rental time App | | | √ | | | | | √ |

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## MSA 4.0
### Electrofusion Unit with full traceability, GPS and Bluetooth functions

High performance, light electro-fusion unit based on inverter technology, providing a complete documentation of the welding including operator badge, job codes, full traceability data (ISO 12176) and GPS coordinates added automatically to each fusion record.
All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive, the configurable workflow to fit all needs, from the simplest to the most plenty of details.
The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.
The internal Bluetooth Low Energy device offers the possibility to enter data, monitor the fusion from remote and collect the data recorded via wireless with consumer smartphones, to send them to the headquarter even in real time.
For operator identity card, job identification and fusion data input, a 1D (or 2D in case of Unitary QR code availability) barcode scanner is connected.
The internal memory has a capacity of 5000 jointing records, which can be exported using a USB memory stick. The fusion protocols are delivered as PDF, CSV files (both manageable with standard and free PC software applications). For a more sophisticated usage, a BIN file is also available, compatible with the MSA Welding Book to sort, filter out and combine protocols and photos captured from multiple MSA units.
Robust aluminum die casting enclosures and a comfortable plastic handle ensure a weight balanced carrying.
Rental time period programmable by the machine owner, with block of the unit on the expiring date. Reset by a dynamic code can be activated.
Scope of delivery: transport case, angle adapters (4,0 mm and 4,7 mm), operation instructions, START/STOP badge, configuration chart and USB memory stick with PC applications.

**Technical Data:**

- Mains frequency: 50-60 Hz
- Fusion data input mode: bar code, manual
- Mains voltage: 230V (190V - 265V)
- Suggested power generators: 3.5 kVA
- Welding technique: Voltage controlled
- Fusion voltage: 8-48 V
- Fusion current: 110 A (max)
- USB Port: Type A
- Operating temperature: -20°C to +50°C
- Internal memory capacity: 5000 protocols
- Protocols format: PDF, CSV and BIN (compatible with MSA Welding Book)
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m
- Fusion cable: 4 m
- Dimensions: 280 x 480 x 220 mm
- Weight: ca. 12.8 kg
- Display: Graphical LCD, adjustable contrast
- Languages support: 27
- Bluetooth radio interface

| Description | Code | Weight (kg) |
|---|---|---|
| MSA 4.0 with 2D barcode scanner (QR code reading) | **790 156 012** | 19.500 |




## MSA 2.0 Automatic Electrofusion Unit

The MSA 2.0 automatic electro fusion unit combines light weight and high efficiency, thanks to its inverter technology. The unit is extremely fast and simple, with three basic operations required to operator: connect, scan, start the fusion.
The MSA 2.0 can keep up to 350 protocols permanently stored in the internal memory.
It is robust, safe and ergonomic.
All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive.
The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.
Scope of delivery includes: transport box, 4.0 mm angle adapters, START/STOP badge and operating instructions.

**Technical Data:**

- Operating temperature: -20°C to +50°C
- Mains voltage and frequency: 230V (190V - 265V), 50-60Hz
- Fusion current: 90 A (max)
- Suggested power generators: 3.5 kVA
- Fusion voltage: 8-42 V (48 V)
- Fusion data input mode: bar code, manual
- USB Port: Type A
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m / Fusion cable: 3 m
- Dimensions: 280 x 480 x 220 mm
- Weight: ca. 11.9 kg
- Display: Graphical LCD, adjustable contrast
- Independent from languages

| Description | Code | Weight (kg) |
|---|---|---|
| Barcode scanner, transport case | **790 156 001** | 11.900 |
| Barcode scanner, transport case, Swiss plug | **790 156 004** | 11.900 |

## MSA 2.1 Automatic Electrofusion Unit with Bluetooth connectivity and protocols export




The MSA 2.1 automatic electro fusion unit combines light weight and high efficiency, thanks to its inverter technology and furthermore provides fusion documentation in PDF. The unit is extremely fast and simple, with three basic operations required to operator: connect, scan, start the fusion. It is robust, safe and ergonomic.
All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive. The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.
The internal Bluetooth Low Energy device offers the possibility to enter data, monitor the fusion from remote and collect the data recorded via wireless with consumer smartphones, to send them to the headquarter even in real time.
The unit can keep up to 1000 protocols permanently stored in the internal memory. The user can export the fusion reports to an USB stick to print them out in PDF format.
Scope of delivery includes: transport box, angle adapters (4.0 mm and 4.7 mm), operating instructions, START/STOP badge and USB memory stick with PC applications.

**Technical Data:**

- Operating temperature: -20°C to +50°C
- Mains voltage and frequency: 230V (190V - 265V), 50-60Hz
- Fusion voltage: 8-42 V (48 V)
- Fusion data input mode: bar code, manual
- Fusion current: 90 A (max)
- Suggested power generators: 3.5 kVA
- USB Port: Type A
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m / Fusion cable: 4 m (8 m only for code 790156010)
- Weight: ca. 11.9 kg
- Display: Graphical LCD, adjustable contrast
- Independent from languages
- Bluetooth radio interface

| Description | Code | Weight (kg) |
|---|---|---|
| Barcode scanner, transport case, mini Welding Book | **790 156 003** | 11.900 |
| Barcode scanner, transport case, mini Welding Book, Swiss plug | **790 156 006** | 11.900 |
| Barcode scanner, transport case, mini Welding Book, 8m fusion cable | **790 156 010** | 12.900 |

## MSA 2 MULTI Automatic Electrofusion Unit for PE/PP/PVDF/PB




The MSA 2 MULTI automatic electro fusion unit combines light weight and high efficiency, thanks to its inverter technology. The unit is suitable for welding PE, PP, INSTAFLEX PB d125-225, Fuseal d1 1/2"-12" and PPro-Seal 1/2"-3".
It is robust, safe and ergonomic.
All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive.
The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.
The unit can keep up to 500 protocols permanently stored in the internal memory. The user can export the fusion reports to an USB stick to print them out in PDF format.
Scope of delivery includes: 1 pair of angle adapter clips 4.0 mm, operating instructions, START/STOP badge, USB memory stick and robust transport case

**Technical Data:**

- Operating temperature: -20°C to +50°C
- Mains voltage and frequency: 230V (190V - 265V), 50-60Hz
- Fusion data input mode: bar code, manual
- Fittings range: d16-630 mm , 1/2"-12"
- Fusion voltage: 3.6-40 V
- Fusion current: 90 A (max)
- Suggested power generators: 3.5 kVA
- USB Port: Type A
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m / Fusion cable: 3 m
- Weight: ca. 11.9 kg
- Display: Graphical LCD, adjustable contrast

| Description | Code | Weight (kg) |
|---|---|---|
| Full package plus mini Welding Book, SeaDrain adapters and barcodes | **790 156 022** | 11.900 |

### MSA 2 CF @ 115V - Automatic Electrofusion Unit with protocols export




The MSA 2 CF electro fusion unit combines light weight and high efficiency, thanks to its power switching technology and furthermore provides fusion documentation in PDF. The unit is extremely fast and simple, like COOL-FIT installations, with three basic operations required to the operator: connect, scan, start the fusion.
It is robust, safe and ergonomic.
All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive.
The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.
The unit can keep up to 1000 protocols permanently stored in the internal memory. The user can export the fusion reports to an USB stick to print them out in PDF format.
Scope of delivery includes: transport box, standard and long angle adapters (4.0 mm), operating instructions, START/STOP badge and USB memory stick with PC applications.
The unit is suitable for welding PE, PP, INSTAFLEX PB d125-225, Fuseald1 1/2"-12" and PPro-Seal 1/2"-3".

**Technical Data:**

- Operating temperature: -20°C to +50°C
- Mains voltage: 90V - 135V AC
- Mains frequency: 50-60 Hz
- Fusion data input mode: bar code, manual
- Fusion voltage: 3.6-42 V
- Fusion current: 90 A (max)
- Suggested power generators: 3.5 kVA
- Fittings range: d20-d450 (inner diameter) COOL-FIT 2.0/4.0
- Protocols format: PDF and binary (compatible with mini Welding Book)
- USB Port: Type A
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m / Fusion cable: 4 m
- Weight: ca 12.5 kg
- Display: Graphical LCD, adjustable contrast
- Independent from languages

| Description | Code | Weight (kg) |
|---|---|---|
| Barcode scanner, transport case, mini Welding Book | **790 156 023** | 13.000 |

## MSA 315 / MSA 340




## MSA 315 Automatic Electrofusion Unit

The MSA 315 automatic electro fusion unit combines performance and compact design, for installers who need to weld fittings up to diameter 315mm, in building technology and gas/water distribution applications. The unit is extremely simple to use, with a few basic operations required to operator: connect, confirm, scan, and start the fusion. The installer can also track operator and job code if needed.
It is robust, safe and ergonomic.
The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.
The unit can keep up to 500 protocols permanently stored in the internal memory. The user can export the fusion reports to an USB stick to print them out in PDF format.
Scope of delivery includes: 1 pair of angle adapter clips 4.0 mm, operating instructions and optionally a transport case

**Technical Data:**

- Operating temperature: -10°C to 45°C
- Fusion data input mode: bar code, manual
- Welding technique: Voltage controlled
- Mains voltage and frequency: 230V (190V - 265V), 50-60Hz
- Fusion voltage: 8-42 V
- Fusion current: 70 A (max)
- Fittings range: d20-315 mm
- Internal memory capacity: 500 protocols
- Protocols format: PDF, CSV
- Protection factor: Class 1 / IP 65
- USB Port: Type A
- Mains cable: 4 m / Fusion cable: 3 m
- Weight: 17 kg
- Display: Graphical LCD, adjustable contrast

| Description | Code | Weight (kg) |
|---|---|---|
| Manual mode, carton box | **790 128 040** | 17.000 |
| Automatic, with barcode reader, carton box | **790 128 041** | 18.500 |
| Transport box, automatic with barcode reader | **790 128 042** | 17.000 |




## MSA 340 Electrofusion Unit with traceability and GPS function

High performance electrofusion unit providing fusion documentation, including traceability data (ISO 12176-4) , operator ID, job code and automatic GPS coordinates in each fusion record. The internal memory has a capacity of 1000 jointing records. For data transfer the unit is equipped with an USB interface. The record formats are PDF and CSV, both manageable with common and free PC software applications. An intuitive operation menu guides you through the complete jointing process. For fusion data input a barcode scanner is connected. The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and indication of cooling time. Robust aluminum housing with convenient cable winding and handle for weight balanced transport. The unit is suitable for jointing in series.
Scope of delivery: transport case, angle adapters (4.0 mm and 4.7 mm), operation instructions and configuration chart.

**Technical Data:**

- Ambient temperature: -10°C to +45°C
- Mains voltage: 230 V (±15%) or 115 V (±15%)
- Mains frequency: 40 Hz - 70 Hz
- Fusion voltage: 8 - 48V AC
- Fusion current: 100 A (max)
- Suggested power generator: 3.5 kVA (5.0 kVA for fittings with d>200mm)
- Mains cable: 4 m / Fusion cable: 4 m
- Protection factor: Class 1 / IP 65
- Interface: USB (type A) for PC communication and software updates
- Weight: 19 kg
- Dimensions (WxHxD): 280 x 480 x 240 mm
- Display: LCD (20 alphanumerical char. x 4 lines), contrast adjustment
- Configurable languages: 11

| Description | Voltage | Code | Weight (kg) |
|---|---|---|---|
| Barcode scanner, carton box | 230 V | **790 160 062** | 18.000 |
| Barcode scanner, transport box | 230 V | **790 160 063** | 18.000 |
| Barcode scanner, carton box | 115 V | **790 160 072** | 18.000 |
| Barcode scanner, transport box | 115 V | **790 160 073** | 18.000 |

# MSA 160



## MSA 160 Automatic Electrofusion Unit

The MSA 160 automatic electro fusion unit combines light weight and compact design, for installers who need to weld fittings up to diameter 160mm, in building technology and gas/water distribution applications. The unit is extremely simple to use, with a few basic operations required to operator: connect, confirm, scan, and start the fusion.
It is robust, safe and ergonomic.
The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.
The unit can keep up to 500 fusion protocols permanently stored in the internal memory. The user can export the fusion reports to an USB stick to print them out in PDF format.
Scope of delivery includes: 1 pair of angle adapter clips 4.0 mm, operating instructions and robust transport case

**Technical Data:**

- Operating temperature: -10°C to 45°C
- Fusion data input mode: bar code, manual
- Mains voltage: 230V (205V - 255V)
- Mains frequency: 50-60 Hz
- Welding technique: Voltage controlled
- Fusion voltage: 8-42 V
- Fusion current: 50 A (max)
- Internal memory capacity: 500 protocols
- Fittings range: d20-160 mm
- Protocols format: PDF, CSV
- USB Port: Type A
- Protection factor: Class 1 / IP 54
- Fusion cable: 3 m
- Mains cable: 4 m
- Weight: 13 kg
- Display: Graphical LCD, adjustable contrast
- Languages support: English, Italian, Chinese and French

| Description | Code | Weight (kg) |
|---|---|---|
| Manual mode version | **790 160 065** | 12.000 |
| Barcode (scanner) and manual mode version | **790 160 066** | 15.000 |




## WeldinAir

High performance radio equipment, working in combination with WeldinAir mobile application. The USB Bluetooth Low Energy device controls the real time communication between the electro-fusion machine and a mobile smartphone (at least iOS 11 or Android 7), during the welding process and the data management. The WeldinAir product is backward compatible with most of MSA electro-fusion units: the hardware can be plugged into the USB socket of MSA 2.0, MSA 2.1, MSA 4.0 without built-in Bluetooth, MSA 330 and MSA 340.
Useable stand alone, with WeldinOne or CONNECT Conrivo, the Quality and Asset Management Service of GFPS.
Scope of delivery: WeldinAir dongle, USB memory stick with MSA software drivers, User instructions and packing

**Technical Data:**

- Operating temperature: -20°C to +50°C
- Input voltage: 5V DC
- Input current (max): 50 mA
- Protection class IP 65

| Type | Code | Weight (kg) |
|---|---|---|
| WeldinAir | **790 156 033** | 0.150 |




## WeldinOne

Software applications to assist installers during welding and asset maintenance.
The applications are suitable for all GF electrofusion, butt fusion and InfraRED machines able to-generate fusion protocols at the end of the jointing.

- The **Welding Book** creates PDF books including the protocols automatically captured by the machine, the maps for the welding place and the photos of scraping activities and proper alignment.
- The **Barcode Generator** creates operator badge, job number, tools identifier to support the installation companies in tracking their work.
- The **MSA Configurator** graphically creates different configurations for the MSA 4.0 and MSA 4.1, to be downloaded, via USB stick, on these machines. Furthermore, it can create the barcodes used to configure the MSAplus family workflow.

| Description | Code | Weight (kg) |
|---|---|---|
| WeldinOne | **790 160 201** | 0.100 |



## Barcode Scanner

Barcode scanner for automatic fusion and traceability data reading of fittings and pipes

- Refer to machine S/N to check the proper version with sales support
- The product codes indicated with * do not include the connection cable, just the barcode scanner, therefore the cable must be ordered separately (refer to the specific item "Cable for barcode scanner" to check the correct code to order); all other codes already include the cable.

| Description | Code | Weight (kg) |
|---|---|---|
| MSAplus barcode scanner and cable | **790 160 227** | 0.250 |
| MSA330/MSA340 rugged scanner and cable | **790 160 225** | 0.250 |
| MSA 2.0 barcode scanner* | **790 156 160** | 0.250 |
| MSA 2.1 and MSA 4.0 1D barcode scanner* | **790 156 260** | 0.250 |
| MSA 4.0 2D barcode scanner* | **790 156 261** | 0.250 |
| MSA 125 / MSA 160 barcode scanner and cable | **790 160 251** | 0.250 |
| MSA330/MSA340 rugged USB scanner and cable | **790 160 252** | 0.350 |
| MSA 330/340 V3 and MSA 315 barcode scanner* | **790 160 256** | 0.225 |



## Cable for barcode scanner

Cable to connect the barcode scanner to the corresponding MSA electro-fusion unit

| Description | Code | Weight (kg) |
|---|---|---|
| Cable for MSAplus scanner | **790 160 226** | 0.100 |
| Cable for MSA 330 / 340 rugged scanner (ref. code 790 160 225) | **790 128 172** | 0.100 |
| Cable for scanner of MSA 2.0 (ref. code 790 156 160), MSA 2.1 and MSA 4.0 1D (ref. code 790 156 260), MSA 4.0 2D (ref. code 790 156 261) | **790 156 308** | 0.100 |
| Cable for MSA 125 / 160 scanner (ref. code 790 160 251) | **790 128 234** | 0.100 |
| Cable for MSA 330 / 340 rugged USB scanner | **790 128 244** | 0.100 |
| Cable for MSA 330 / 340 V3 and MSA 315 barcode scanner (ref. code 790 160 256) | **790156308B** | 0.100 |





## Geothermal cables kit

- Ability to joint in parallel 2 couplers of a Y fitting
- Welding voltage: 0 – 48 Volt
- Welding current: 40 A (max.)
- Content of delivery: 2 cables, pouch, protection caps, operation manual
- Recommended in combination with ELGEF fittings
- Compatible with all MSA Units
- Connector: 4 mm (90°)
- Cable length: 290 mm

| Description | Code | Weight (kg) |
|---|---|---|
| MSA geother-mal cables | **790 160 176** | 0.385 |



## Adapters 4.0mm for MSA

- Adapters for Electrofusion units with 4.7 mm connectors.
- Compatible with all MSA Units

| Description | Code | Weight (kg) |
|---|---|---|
| Angle adapter, black, 4.0mm | **799 350 340** | 0.058 |



## Adapters 4.7mm angle for MSA

- Adapters for Electrofusion units with 4 mm connectors.
- Compatible with all MSA Units

| Description | Code | Weight (kg) |
|---|---|---|
| Angle adapter, grey, 4.7mm | **799 350 341** | 0.057 |



## Adapters 4.7mm straight for MSA

- Adapters for Electrofusion units with 4 mm connectors.
- Compatible with all MSA Units

| Description | Code | Weight (kg) |
|---|---|---|
| Adapter, white, 4.7mm | **799 350 462** | 0.014 |



## Long adapters

- Adapters for Electrofusion units with 4 mm connectors.
- Longer version, suitable for all COOL-FIT 4.0 dimensions.

| Description | Code | Weight (kg) |
|---|---|---|
| Angle adapters pair, black, 4.0mm | **790 128 035** | 0.058 |



## COOL-FIT Y cables kit

- The COOL-FIT Y cables are used to speed up the installation of the fixed points electrofusion tapes. The Y cables allow the welding in parallel of 2 E-Tapes, halving the total duration of the fusion process.
- Compatible with all MSA Units

| Description | Code | Weight (kg) |
|---|---|---|
| 4 leads cable with 2mm plugs in output | **790 156 032** | 0.385 |



## SeaDrain/FUSEAL cable adapters

- Ability to joint in parallel up to 4 coils, for SeaDrain, SeaDrain PLUS, Fuseal, PPRo-Seal and Fuseal 25/50
- Compatible with all MSA Units

| Cable length (m) | Code | Weight (kg) |
|---|---|---|
| 0.6 | **790 156 184** | 0.400 |
| 1.6 | **790 156 195** | 0.400 |



## Barcode cards set

Barcodes kit for SeaDrain and SeaDrain+ fittings, including coil tester
Compatible with MSA 2 MULTI, MSA 2 CF and MSA 250 EX-MULTI.

| Type | Code | Weight (kg) |
|---|---|---|
| Barcode set and tester for MSA 2 CF and MULTI | **790 156 194** | 0.400 |



## Transport Box MSA electro-fusion units

- Large, robust transport box for MSA machines
- Refer to machine S/N to check the proper version with sales support

| Suitable for | Code | Weight (kg) | L (mm) | W (mm) | H (mm) |
|---|---|---|---|---|---|
| MSA330 / MSA340 / MSA230 Ver.2 | **790 160 010** | 8.000 | 370 | 350 | 520 |
| MSA 2 / MSA 4 | **790 156 228** | 6.600 | 315 | 315 | 525 |
| MSAplus 250-400 | **799 350 472** | 5.248 | 330 | 220 | 470 |
| MSA330 / MSA340 Ver.3 & MSA315 | **790 156 328** | 6.000 | 315 | 315 | 525 |

Utility Range

# MSA Machines

## Accessories Code

| Machine type |  Transport Box |  Scanner |  Cable for scanner |  Adapters |  CoolFit Y cables |  Long adapters |  Geothermal kit |  WeldinAir |
|---|---|---|---|---|---|---|---|---|
|  | | | | | | | | |
| MSA 4.0 | 790 156 228 | 790 156 260/1** | 790 156 308 | 799 350 340/1 | 790 156 032 | 790 128 035 | 790 160 176 | - |
| MSA 2.1 | 790 156 228 | 790 156 260** | 790 156 308 | 799 350 340/1 | 790 156 032 | 790 128 035 | 790 160 176 | - |
| MSA 2.0 | 790 156 228 | 790 156 160** | 790 156 308 | 799 350 340/1 | 790 156 032 | 790 128 035 | 790 160 176 | 790 156 033 |
| MSA 2 MULTI* | 790 156 228 | 790 156 160** | 790 156 308 | 799 350 340/1 | 790 156 032 | 790 128 035 | 790 160 176 | - |
| MSA 2 CF | 790 156 228 | 790 156 260** | 790 156 308 | 799 350 340/1 | 790 156 032 | 790 128 035 | 790 160 176 | 790 156 033 |
|  | | | | | | | | |
| MSA 340 V3 | 790 156 328 | 790 160 256** | 790 156 308B | 799 350 340/1 | 790 156 032 | 790 128 035 | 790 160 176 | 790 156 033 |
| MSA 330 V3 | 790 156 328 | 790 160 256** | 790 156 308B | 799 350 340/1 | 790 156 032 | 790 128 035 | 790 160 176 | 790 156 033 |
|  | | | | | | | | |
| MSA 340 V2 | 790 160 010 | 790 160 225*** | 790 128 172 | 799 350 340/1 | 790 156 032 | 790 128 035 | 790 160 176 | 790 156 033 |
| MSA 330 V2 | 790 160 010 | 790 160 225*** | 790 128 172 | 799 350 340/1 | 790 156 032 | 790 128 035 | 790 160 176 | 790 156 033 |
| MSA 230 V2 | 790 160 010 | 790 128 119*** | 790 128 172 | 799 350 462 | 790 156 032 | 790 128 035 | 790 160 176 | - |
|  | | | | | | | | |
| MSA 315 | 790 156 328 | 790 160 256*** | 790 128 234 | 799 350 340/1 | 790 156 032 | 790 128 035 | 790 160 176 | - |
|  | | | | | | | | |
| MSA 125-160 | - | 790 160 251*** | 790 128 234 | 799 350 340/1 | - | - | 790 160 176 | - |

* Just for this electrofusion unit type, the SeaDrain cable adapters are available as accessory with code 790 156 195
** Cable not included ( see next column to check the correct cable code if needed)
*** This code also includes the cable

# Trench Machines

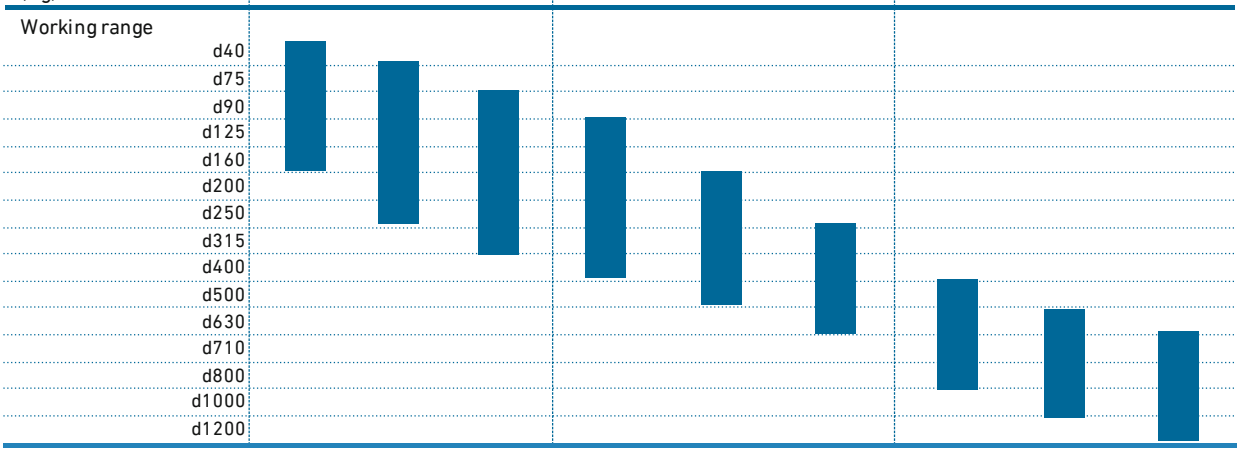
## Product Range Overview





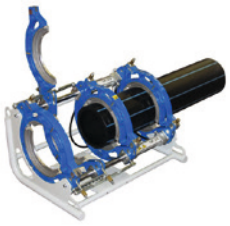


| Characteristic | ECOS-TOP-CNC 160 | 250 | 315 | ECOS-TOP-CNC 400 | 500 | 630 | GF 800 | 1000 | 1200 |
|---|---|---|---|---|---|---|---|---|---|
| Max jointing diameter (mm) | 160 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1200 |
| Jointing material | PE, PP, PB | | | PE,PP,PB | | | PE,PP | | |
| Working range (°C) | -10/+45 | | | -10/+45 | | | -10/+45 | | |
| Input voltage (Vac) | 230/115 | 230 | 230 | 400 | 400 | 400 | 400 | 400 | 400 |
| Operation control | Manual, CNC | | | Manual, CNC | | | Manual | | |
| Performance (W) | 1900 | 3250 | 3850 | 5700 | 6300 | 11000 | 15000 | 19500 | 20500 |
| Reduction inserts / Flange adapter clamp | Optional | | | Optional | | | Optional | | |
| Hoist unit | | | | Optional | | | Optional | | |
| Chamfered upper clamp | Optional | | | Optional | | | | | |
| Fusion protocols, transfer via USB stick | WR 200 (Optional), CNC | | | WR 200 (Optional), CNC | | | WR 200 (Optional) | | |
| Remote data transfer via smartphone | TOP, CNC | | | TOP, CNC | | | | | |
| | CNC | | | CNC | | | | | |
| Weight – base machine (Kg) | 22 | 47 | 53 | 95 | 169 | 222 | 690 | 1238 | 1370 |



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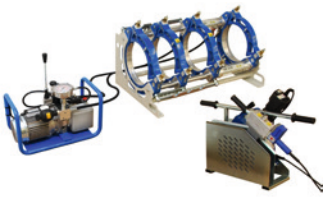


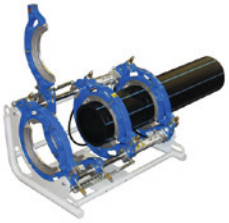

## TOP 2.0 160 - 250 - 315
### Butt fusion machine for construction site

Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.
Hydraulically operated with manual control unit.
TOP hydraulic unit with integrated control panel and power outlets.
Including transport packaging (wooden crate); reduction clamping inserts and other accessories to be ordered separately.

- **BASE MACHINE**
- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 35° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Clamps are hinged on the top side and tilting. Whenever necessary, the four clamps can be quickly removed
- Double-sided heating element pull-off mechanism to optimise the change-over phase
- Weight: Type 160 = 22 kg, Type 250 = 47 kg, Type 315 = 53 kg
- **HYDRAULIC UNIT**
- Compact aluminium case with innovative design
- Clear control panel consisting of digital system pressure display, electronic heating element temperature control, timer with 2 stop times
- Automatic pressure control during the cooling time
- Built-in data logger and realtime communication with mobile smartphones (at least iOS 11 or Android 7) during the welding process and fusion data download, working in combination with TOP WeldinAir mobile application
- Precise pressure setting and fine adjusting
- Carriage movements are carried out by means of pushbuttons
- Integrated power outlets for planer, heating element
- Accumulator for pressure equalization during the cooling phase
- Max operating pressure: 160 bar
- Weight: 31 kg
- **PLANER**
- Powerful parallel planer for single or double-sided facing of pipe ends
- Ergonomic, weight-balanced handling
- Self-locking mechanism in working position
- Safety microswitch to prevent undesired start-up
- Weight: Type 160 = 7 kg, Type 250 = 14 kg, Type 315 = 17 kg
- **HEATING ELEMENT**
- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Weight: Type 160 = 5.5 kg; Type 250 = 8 kg; Type 315 = 10 kg
- Input power: Type 160 = 1200 W, Type 250 = 2000 W, Type 315 = 2500 W
- **CASE**
- For safe storage of planer and heating element
- Weight: Type 160 = 4.8 kg, Type 250 = 8 kg, Type 315 = 9 kg

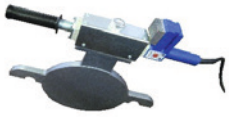
| Type | d-d (mm) | Performance | Code | Weight (kg) |
|---|---|---|---|---|
| TOP 2.0 160 | 40 - 160 | 230 V/1900 W | **790 150 011** | 126.000 |
| TOP 2.0 250 | 75 - 250 | 230 V/3270 W | **790 151 011** | 191.000 |
| TOP 2.0 315 | 90 - 315 | 230 V/3870 W | **790 152 026** | 206.000 |
| TOP 2.0 160, Swiss plug | 40 - 160 | 230 V/1900 W | **790 150 060** | 126.000 |
| TOP 2.0 250, Swiss plug | 75 - 250 | 230 V/3270 W | **790 151 083** | 191.000 |
| TOP 2.0 315, Swiss plug | 90 - 315 | 230 V/3870 W | **790 152 081** | 206.000 |













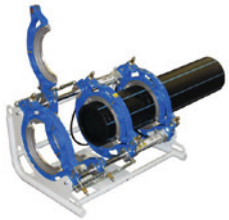
## ECOS 160 - 250 - 315
### Butt fusion machine for construction site

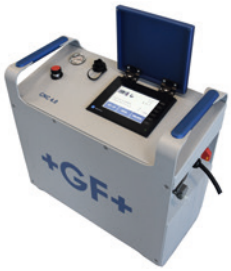
Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.
Hydraulically operated with manual control unit.
Temperature controller integrated in the heating element handle.
Including transport packaging (carton pallet); reduction clamping inserts and other accessories to be ordered separately.

- **BASE MACHINE**
- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 35° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Clamps are hinged on the top side and tilting. Whenever necessary, the four clamps can be quickly removed
- Double-sided heating element pull-off mechanism to optimise the change-over phase
- Weight: Type 160 = 22 kg, Type 250 = 47 kg, Type 315 = 53 kg
- **HYDRAULIC UNIT**
- Compact construction with protection frame
- Precise pressure setting and fine adjusting
- Joystick operation of machine carriage
- Clearly visible, vibration-free pressure gauge with precision scaling
- Accumulator for pressure equalization during the cooling phase
- Integrated interface for welding recorder
- Max operating pressure: Type 160 = 100 bar, Type 250 - 315 = 160 bar
- Weight:  22 kg
- **PLANER**
- Powerful parallel planer for single or double-sided facing of pipe ends
- Ergonomic, weight-balanced handling
- Self-locking mechanism in working position
- Safety microswitch to prevent undesired start-up
- Weight: Type 160 = 7 kg, Type 250 = 14 kg, Type 315 = 17 kg
- **HEATING ELEMENT**
- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Weight: Type 160 = 5.5 kg, Type 250 = 8 kg, Type 315 = 10 kg
- Input power: Type 160 = 1200 W, Type 250 = 2000 W, Type 315 = 2500 W
- **CASE**
- For safe storage of planer and heating element
- Weight: Type 160 = 4.8 kg, Type 250 = 8 kg, Type 315 = 9 kg

| Type | d-d (mm) | Performance | Description | Code | Weight (kg) |
|---|---|---|---|---|---|
| ECOS 160 | 40 - 160 | 230 V/1900 W | Without crate (carton pallet only) | **790 150 009** | 78.000 |
| ECOS 250 | 75 - 250 | 230 V/3270 W | Without crate (carton pallet only) | **790 151 013** | 116.000 |
| ECOS 315 | 90 - 315 | 230 V/3870 W | Without crate (carton pallet only) | **790 152 028** | 129.000 |
| ECOS 160 | 40 - 160 | 230 V/1900 W | With wooden transport crate | **790 150 073** | 108.000 |
| ECOS 250 | 75 - 250 | 230 V/3270 W | With wooden transport crate | **790 151 073** | 166.000 |
| ECOS 315 | 90 - 315 | 230 V/3870 W | With wooden transport crate | **790 152 073** | 179.000 |











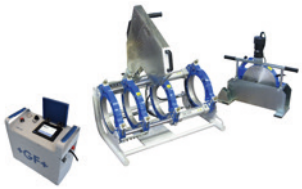


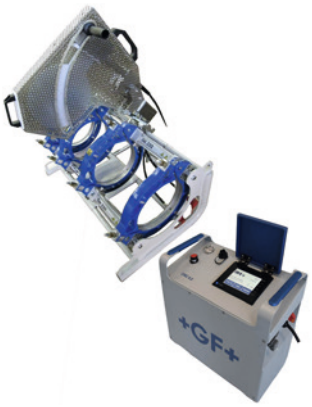
## CNC 4.0 160 - 250 - 315
### Automatic butt fusion machine for construction site

Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.
Hydraulically operated with automatic CNC control unit.
Including transport packaging (wooden crate); reduction clamping inserts and other accessories to be ordered separately.

- **BASE MACHINE**
- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 35° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Clamps are hinged on the top side and tilting. Whenever necessary, the four clamps can be quickly removed
- Double-sided heating element pull-off mechanism to optimise the change-over phase
- The distance control (potentiometer) mounted into the base machine grants control and safety throughout the complete working process
- Weight: Type 160 = 22 kg, Type 250 = 47 kg, Type 315 = 53 kg
- **HYDRAULIC UNIT**
- Compact aluminium case with innovative design
- Intuitive colour touch screen interface
- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines
- Real time communication with mobile smartphone during the welding process, the data transfer and fusion protocols collection, in combination with WeldinAir mobile application
- Operator ID (ISO 12176-3), job number and pipe codes (ISO 12176-4) input by means of the smartphone
- Transfer of collected fusion data directly from jobsite to the headquarter by means of the smartphone
- Compatible with label printer
- Integrated GPS receiver
- 10 freely programmable fusion cycles (e.g. for non standard pipe dimensions)
- Selection of language
- On site check of the memorized fusion protocols status directly on the touchscreen
- Transfer of memorized fusion protocols to an external PC via USB memory stick (included)
- Fusion protocols compatible with Welding Book application
- Integrated power outlets for planer, heating element
- Accumulator for pressure equalization during the cooling phase
- Max operating pressure: 160 bar
- Weight:  33 kg
- **PLANER**
- Powerful parallel planer for single or double-sided facing of pipe ends
- Ergonomic, weight-balanced handling
- Self-locking mechanism in working position
- Safety microswitch to prevent undesired start-up
- Weight: Type 160 = 7 kg, Type 250 = 14 kg, Type 315 = 17 kg
- **HEATING ELEMENT**
- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Weight: Type 160 = 5.5 kg, Type 250 = 8 kg, Type 315 = 10 kg
- Input power: Type 160 = 1200 W, Type 250 = 2000 W, Type 315 = 2500 W
- **CASE**
- For safe storage of planer and heating element
- Weight: Type 160 = 4.8 kg, Type 250 = 8 kg, Type 315 = 9 kg

| Type | d-d (mm) | Performance | Code | Weight (kg) |
|---|---|---|---|---|
| CNC 4.0 160 WeldinAir | 40 - 160 | 230 V/2000 W | **790 150 076** | 125.000 |
| CNC 4.0 250 WeldinAir | 75 - 250 | 230 V/3150 W | **790 151 076** | 195.000 |
| CNC 4.0 315 WeldinAir | 90 - 315 | 230 V/3750 W | **790 152 076** | 215.000 |
| CNC 4.0 160 WeldinAir, Swiss plug | 40 - 160 | 230 V/2000 W | **790 150 061** | 125.000 |
| CNC 4.0 250 WeldinAir, Swiss plug | 75 - 250 | 230 V/3150 W | **790 151 084** | 195.000 |
| CNC 4.0 315 WeldinAir, Swiss plug | 90 - 315 | 230 V/3750 W | **790 152 082** | 215.000 |











## CNC 4.0 250 - 315 AHE
### Automatic butt fusion machine for construction site with heating element ejection system

Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.
Hydraulically operated with automatic CNC control unit.
Automatic ejection system for the heating element.
Including transport packaging (wooden crate); reduction clamping inserts and other accessories to be ordered separately.

- **BASE MACHINE**
- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 35° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Clamps are hinged on the top side and tilting. Whenever necessary, the four clamps can be quickly removed
- The heating element is removed automatically during the change-over phase
- The distance control (potentiometer) mounted into the base machine grants control and safety throughout the complete working process
- Weight: Type 250 = 54 kg, Type 315 = 60 kg
- **HYDRAULIC UNIT**
- Compact aluminium case with innovative design
- Intuitive colour touch screen interface
- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines
- Real time communication with mobile smartphone during the welding process, the data transfer and fusion protocols collection, in combination with WeldinAir mobile application
- Operator ID (ISO 12176-3), job number and pipe codes (ISO 12176-4) input by means of the smartphone
- Transfer of collected fusion data directly from jobsite to the headquarter by means of the smartphone
- Compatible with label printer
- Integrated GPS receiver
- 10 freely programmable fusion cycles (e.g. for non standard pipe dimensions)
- Selection of language
- On site check of the memorized fusion protocols status directly on the touchscreen
- Transfer of memorized fusion protocols to an external PC via USB memory stick (included)
- Fusion protocols compatible with Welding Book application
- Integrated power outlets for planer, heating element
- Accumulator for pressure equalization during the cooling phase
- Max operating pressure: 160 bar
- Weight:  33 kg
- **PLANER**
- Powerful parallel planer for single or double-sided facing of pipe ends
- Ergonomic, weight-balanced handling
- Self-locking mechanism in working position
- Safety microswitch to prevent undesired start-up
- Weight: Type 250 = 14 kg, Type 315 = 17 kg
- **HEATING ELEMENT**
- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Weight: Type 250 = 15 kg, Type 315 = 19 kg
- Input power: Type 250 = 2000 W, Type 315 = 2500 W
- **CASE**
- For safe storage of planer and heating element
- Weight: Type 250 = 9 kg, Type 315 = 10 kg

| Type | d-d (mm) | Performance | Code | Weight (kg) |
|---|---|---|---|---|
| CNC 4.0 250 AHE WeldinAir | 75 - 250 | 230 V/3150 W | **790 151 077** | 208.000 |
| CNC 4.0 315 AHE WeldinAir | 90 - 315 | 230 V/3750 W | **790 152 077** | 223.000 |



## Type 160 Reduction clamping inserts

- d 40 - 140 mm
- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.
- Reductions in inch sizes or special diameters upon request

| d (mm) | narrow Code | Weight (kg) | wide Code | Weight (kg) |
|---|---|---|---|---|
| 40 | **790 114 027** | 0.330 | **790 114 023** | 0.300 |
| 50 | **790 114 016** | 0.310 | **790 114 009** | 0.290 |
| 63 | **790 114 017** | 0.300 | **790 114 010** | 0.293 |
| 75 | **790 114 018** | 0.280 | **790 114 011** | 0.270 |
| 90 | **790 114 019** | 0.260 | **790 114 012** | 0.250 |
| 110 | **790 114 020** | 0.220 | **790 114 013** | 0.220 |
| 125 | **790 114 021** | 0.190 | **790 114 014** | 0.200 |
| 140 | **790 114 022** | 0.130 | **790 114 015** | 0.180 |



## Type 250 Reduction clamping inserts

- d 75 - 225 mm
- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.
- Reductions in inch sizes or special diameters upon request

| d (mm) | narrow Code | Weight (kg) | wide Code | Weight (kg) |
|---|---|---|---|---|
| 90 | **790 115 016** | 0.719 | **790 115 008** | 0.940 |
| 110 | **790 115 017** | 0.734 | **790 115 009** | 0.841 |
| 125 | **790 115 018** | 0.661 | **790 115 010** | 0.829 |
| 140 | **790 115 019** | 0.762 | **790 115 011** | 0.647 |
| 160 | **790 115 020** | 0.574 | **790 115 012** | 0.727 |
| 180 | **790 115 021** | 0.561 | **790 115 013** | 0.676 |
| 200 | **790 115 022** | 0.479 | **790 115 014** | 0.733 |
| 225 | **790 115 023** | 0.385 | **790 115 015** | 0.477 |



## Type 315 Reduction clamping inserts

- d 90 - 280 mm
- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.
- Reductions in inch sizes or special diameters upon request

| d (mm) | narrow Code | Weight (kg) | wide Code | Weight (kg) |
|---|---|---|---|---|
| 90 | **790 112 098** | 1.265 | **790 112 088** | 1.000 |
| 110 | **790 112 099** | 1.220 | **790 112 089** | 0.945 |
| 125 | **790 112 100** | 1.215 | **790 112 090** | 0.957 |
| 140 | **790 112 101** | 1.139 | **790 112 091** | 0.950 |
| 160 | **790 112 102** | 1.080 | **790 112 092** | 0.980 |
| 180 | **790 112 103** | 1.006 | **790 112 093** | 0.931 |
| 200 | **790 112 104** | 0.945 | **790 112 094** | 0.880 |
| 225 | **790 112 105** | 0.833 | **790 112 095** | 0.940 |
| 250 | **790 112 106** | 0.712 | **790 112 096** | 0.754 |
| 280 | **790 112 107** | 0.562 | **790 112 097** | 0.750 |



## Reduction clamping inserts-set

- 4 wide and 4 narrow clamping inserts of each dimension
- Reductions in inch sizes or special diameters upon request

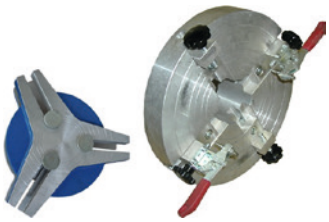
| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 40 - 140 | **790 114 156** | 17.000 |
| 75 - 225 | **790 115 156** | 63.000 |
| 90 - 280 | **790 112 156** | 78.000 |



## Chamfered upper clamp

- Necessary for welding short-leg bends having diameters equal of the machine dimension: e.g. bend Ø250 mm with a TM 250
- Left: bend is clamped left from the heating element position
- Right: bend is clamped right from the heating element position

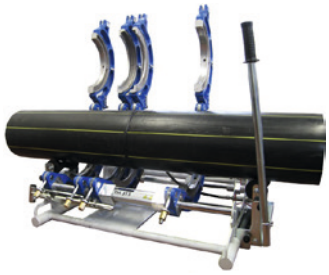
| Type | Left Code | Right Code | Weight (kg) |
|---|---|---|---|
| Type 160 | **790 150 205** | **790 150 206** | 0.800 |
| Type 250 | **790 151 205** | **790 151 206** | 1.850 |
| Type 315 | **790 152 205** | **790 152 206** | 2.681 |



## Flange adapter clamping units

- For correct clamping and fusion jointing of short-ended stub ends

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 40 - 160 | **790 319 007** | 5.800 |
| 75 - 250 | **790 115 044** | 5.594 |
| 90 - 315 | **790 112 073** | 11.000 |



## Pipe lifter

- Convenient movement of the welded pipes through the base machine
- Lifting the pipes out of the clamps or inserts, to let the bead pass without blocking
- Supporting the welded pipes on height adjustable rollers
- The pipe lifter could be easily assembled to the base machine
- The delivery contains one left and one right pipe lifter and one lever

| Type | Code | Weight (kg) |
|---|---|---|
| Type 160 | **790 150 050** | 9.000 |
| Type 250 | **790 151 050** | 11.000 |
| Type 315 | **790 152 050** | 12.500 |



## Set of replacement blades for planer

- Blade has 2 cutting edges (1 set = 2 blades)

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 40 - 160 | **790 113 056** | 0.059 |
| 75 - 250 | **790 115 024** | 0.083 |
| 90 - 315 | **790 112 110** | 0.129 |




### Pressure Shut-Off Valve

- Time saving in the butt fusion process, by working with 2 base machines
- Enabling to disconnect the base machine under pressure from the hydraulic unit during the cooling time
- Close the pressure valve, release pressure at the hydraulic unit, disconnect the hoses from the base machine. Keep the joint cooling down
- Use the cooling time for pipe preparation and welding of the next join by connecting the hydraulic unit hoses to a second base machine

| Type | Code | Weight (kg) |
|---|---|---|
| Type 250 - 315 | **790 151 002** | 1.500 |

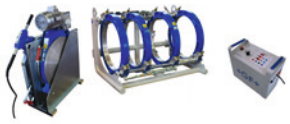


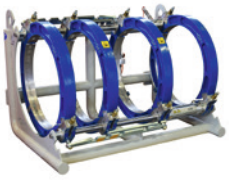
### Label printer cable for CNC machines

- Cable to connect the CNC 4.0 to same label printer (code 790131066) used with automatic IR welding machines

| Type | Code | Weight (kg) |
|---|---|---|
| Cable with special connector | **790 155 343** | 0.120 |

# TOP 2.0 400 - 500 - 630














**TOP 2.0 400 - 500 - 630**
**Butt fusion machine for construction site**

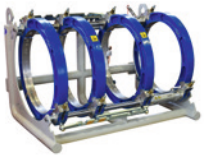
Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.
Hydraulically operated with manual control unit.
TOP hydraulic unit with integrated control panel and power outlets.
Including transport packaging (wooden crate); reduction clamping inserts and other accessories to be ordered separately.

- **BASE MACHINE**
- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 45° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Double-sided heating element pull-off mechanism to optimise the change-over phase
- Weight: Type 400 = 80 kg, Type 500 = 157 kg, Type 630 = 222 kg
- **HYDRAULIC UNIT**
- Compact aluminium case with innovative design
- Clear control panel consisting of digital system pressure display, electronic heating element temperature control, timer with 2 stop times
- Automatic pressure control during the cooling time
- Built-in data logger and realtime communication with mobile smartphones (at least iOS 11 or Android 7) during the welding process and fusion data download, working in combination with TOP WeldinAir mobile application
- Precise pressure setting and fine adjusting
- Carriage movements are carried out by means of pushbuttons
- Integrated power outlets for planer, heating element
- Accumulator for pressure equalization during the cooling phase
- Max operating pressure: Type 400 = 160 bar, Type 500 - 630 = 200 bar
- Weight: 34 kg
- **PLANER**
- Powerful parallel planer for single or double-sided facing of pipe ends
- Ergonomic, weight-balanced handling
- Self-locking mechanism in working position
- Safety microswitch to prevent undesired start-up
- Weight: Type 400 = 47 kg, Type 500 = 58 kg, Type 630 = 102 kg
- For Type 500 a special version is available, with enhanced performance to work with PP pipes and fittings up to d 500 mm SDR 11
- **HEATING ELEMENT**
- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Weight: Type 400 = 16 kg, Type 500 = 26 kg, Type 630 = 51 kg
- Input power: Type 400 = 3.5 kW, Type 500= 4.0 kW, Type 630 = 8.0 kW
- **CASE**
- For safe storage of planer and heating element
- Weight: Type 400 = 30 kg, Type 500 = 38 kg, Type 630 = 62 kg

| Type | d-d (mm) | Performance | Code | Weight (kg) |
|---|---|---|---|---|
| TOP 2.0 400 | 125 - 400 | 400 V/5700 W | **790 153 011** | 310.000 |
| TOP 2.0 500 | 200 - 500 | 400 V/6300 W | **790 154 011** | 448.000 |
| TOP 2.0 630 | 315 - 630 | 400 V/11000 W | **790 155 011** | 588.000 |

# ECOS 400 - 500 - 630













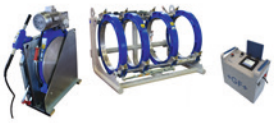


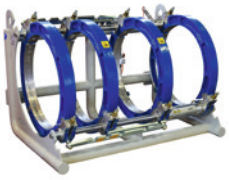
## ECOS 400 - 500 - 630
### Butt fusion machine for construction site

Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.
Hydraulically operated with manual control unit.
Separate remote temperature controller for the heating element.
Including transport packaging (wooden crate); reduction clamping inserts and other accessories to be ordered separately.

- **BASE MACHINE**
- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 45° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Double-sided heating element pull-off mechanism to optimise the change-over phase
- Weight: Type 400 = 80 kg, Type 500 = 157 kg, Type 630 = 222 kg
- **HYDRAULIC UNIT**
- Compact and robust, with full closed cast aluminium housing
- Precise pressure setting and fine adjusting
- Joystick operation of machine carriage
- Clearly visible, vibration-free pressure gauge with precision scaling
- Accumulator for pressure equalization during the cooling phase
- Interface for welding recorder available as accessory
- Max operating pressure: 160 bar
- Weight:  31 kg
- **PLANER**
- Powerful parallel planer for single or double-sided facing of pipe ends
- Self-locking mechanism in working position
- Safety microswitch to prevent undesired start-up
- Weight: Type 400 = 47 kg, Type 500 = 58 kg, Type 630 = 102 kg
- **HEATING ELEMENT**
- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Weight: Type 400 = 16 kg, Type 500 = 26 kg, Type 630 = 51 kg
- Input power: Type 400 = 3.5 kW, Type 500 = 4.0 kW, Type 630 = 8.0 kW
- **CASE**
- For safe storage of planer and heating element
- Weight: Type 400 = 30 kg, Type 500 = 38 kg, Type 630 = 62 kg

| Type | d-d (mm) | Performance | Code | Weight (kg) |
|---|---|---|---|---|
| ECOS 400 | 125 - 400 | 230 V/5700 W | **790 127 013** | 336.000 |
| ECOS 500 | 200 - 500 | 400 V/7000 W | **790 140 010** | 463.000 |
| ECOS 630 | 315 - 630 | 400 V/11000 W | **790 345 012** | 593.000 |














## CNC 4.0 400 - 500 - 630
### Automatic butt fusion machine for construction site

Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.
Hydraulically operated with automatic CNC control unit.
Including transport packaging (wooden crate); reduction clamping inserts and other accessories to be ordered separately.

- **BASE MACHINE**
- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 35° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Double-sided heating element pull-off mechanism to optimise the change-over phase
- The distance control (potentiometer) mounted into the base machine grants control and safety throughout the complete working process
- Weight: Type 400 = 80 kg, Type 500 = 157 kg, Type 630 = 222 kg
- **HYDRAULIC UNIT**
- Compact aluminium case with innovative design
- Intuitive colour touch screen interface
- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines
- Real time communication with mobile smartphone during the welding process, the data transfer and fusion protocols collection, in combination with WeldinAir mobile application
- Operator ID (ISO 12176-3), job number and pipe codes (ISO 12176-4) input by means of the smartphone
- Transfer of collected fusion data directly from jobsite to the headquarter by means of the smartphone
- Compatible with label printer
- Integrated GPS receiver
- 10 freely programmable fusion cycles (e.g. for non standard pipe dimensions)
- Selection of language
- On site check of the memorized fusion protocols status directly on the touchscreen
- Transfer of memorized fusion protocols to an external PC via USB memory stick (included)
- Fusion protocols compatible with Welding Book application
- Integrated power outlets for planer, heating element
- Accumulator for pressure equalization during the cooling phase
- Max operating pressure: Type 400 = 160 bar, Type 500 - 630 = 200 bar
- Weight:  37 kg
- **PLANER**
- Powerful parallel planer for single or double-sided facing of pipe ends
- Ergonomic, weight-balanced handling
- Self-locking mechanism in working position
- Safety microswitch to prevent undesired start-up
- Weight: Type 400 = 47 kg, Type 500 = 58 kg, Type 630 = 102 kg
- For Type 500 a special version is available, with enhanced performance to work with PP pipes and fittings up to d 500 mm SDR 11
- **HEATING ELEMENT**
- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Weight: Type 400 = 16 kg, Type 500 = 26 kg, Type 630 = 51 kg
- Input power: Type 400 = 3.5 kW, Type 500= 4.0 kW, Type 630 = 8.0 kW
- **CASE**
- For safe storage of planer and heating element
- Weight: Type 400 = 30 kg, Type 500 = 38 kg, Type 630 = 62 kg

| Type | d-d (mm) | Performance | Code | Weight (kg) |
|---|---|---|---|---|
| CNC 4.0 400 WeldinAir | 125 - 400 | 400 V/5700 W | **790 153 076** | 320.000 |
| CNC 4.0 500 WeldinAir | 200 - 500 | 400 V/6300 W | **790 154 076** | 455.000 |
| CNC 4.0 630 WeldinAir | 315 - 630 | 400 V/11000 W | **790 155 076** | 595.000 |



## Type 400 Reduction clamping inserts

- d125-355
- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.
- Reductions in inch sizes or special diameters upon request

In order to mount the inserts d 125/d 140/d 160/d 180/d 200/d 225/d 250/d 280, the reduction clamping insert d 315 mm, code 790 127 101, must also be used

| d (mm) | narrow Code | Weight (kg) | wide Code | Weight (kg) |
|---|---|---|---|---|
| 125 | **790 112 100** | 1.215 | **790 112 090** | 0.957 |
| 140 | **790 112 101** | 1.139 | **790 112 091** | 0.950 |
| 160 | **790 112 102** | 1.080 | **790 112 092** | 0.980 |
| 180 | **790 112 103** | 1.006 | **790 112 093** | 0.931 |
| 200 | **790 112 104** | 0.945 | **790 112 094** | 0.880 |
| 225 | **790 112 105** | 0.833 | **790 112 095** | 0.940 |
| 250 | **790 112 106** | 0.712 | **790 112 096** | 0.754 |
| 280 | **790 112 107** | 0.562 | **790 112 097** | 0.750 |
| 315 | **790 127 111** | 1.200 | **790 127 101** | 1.830 |
| 355 | **790 127 112** | 0.900 | **790 127 102** | 1.830 |



## Type 500 Reduction clamping inserts

- d 200 - 450 mm
- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.
- Reductions in inch sizes or special diameters upon request

| d (mm) | narrow Code | Weight (kg) | wide Code | Weight (kg) |
|---|---|---|---|---|
| 200 | **790 116 016** | 3.714 | **790 116 008** | 3.650 |
| 225 | **790 116 017** | 3.443 | **790 116 009** | 3.640 |
| 250 | **790 116 018** | 3.700 | **790 116 010** | 3.569 |
| 280 | **790 116 019** | 3.891 | **790 116 011** | 3.612 |
| 315 | **790 116 020** | 3.622 | **790 116 012** | 3.698 |
| 355 | **790 116 021** | 3.267 | **790 116 013** | 3.727 |
| 400 | **790 116 022** | 2.383 | **790 116 014** | 3.836 |
| 450 | **790 116 023** | 2.273 | **790 116 015** | 3.276 |



## Type 630 Reduction clamping inserts

- d 315 - 630 mm
- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.
- Reductions in inch sizes or special diameters upon request

In order to mount the inserts d 315/d 355/d 400/d 450 to the base clamp d 630, the reduction clamping insert d 500 mm, code 790 117 012, must also be used

| d (mm) | narrow Code | Weight (kg) | wide Code | Weight (kg) |
|---|---|---|---|---|
| 315 | **790 116 020** | 3.622 | **790 116 012** | 3.698 |
| 355 | **790 116 021** | 3.267 | **790 116 013** | 3.727 |
| 400 | **790 116 022** | 2.383 | **790 116 014** | 3.836 |
| 450 | **790 116 023** | 2.273 | **790 116 015** | 3.276 |
| 500 | **790 117 238** | 3.700 | **790 117 012** | 4.500 |
| 560 | **790 117 239** | 4.280 | **790 117 013** | 5.550 |



## Reduction clamping inserts-set

- 4 wide and 4 narrow clamping inserts of each dimension
- For machine type 400 (d 125 - d 355), 8 wide clamping inserts d 315 are included
- For machine type 500 a complete set (d 200 - d 450) and a reduced set (d 250 - d 450) are available
- For machine type 630 (d 315 - d 560), 8 wide clamping inserts d 500, d 560 are included
- Reductions in inch sizes or special diameters upon request

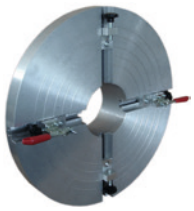
| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 125 - 355 | **790 127 156** | 95.000 |
| 200 - 450 | **790 116 157** | 241.000 |
| 250 - 450 | **790 116 156** | 165.000 |
| 315 - 560 | **790 117 021** | 201.000 |



## Chamfered upper clamp

- Necessary for welding short-leg bends having diameters equal of the maximum machine dimension

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 400 | **790 153 117** | 3.750 |
| 630 | **790 345 233** | 10.490 |



## Flange adapter clamping unit

- For correct clamping and fusion jointing of short-ended stub ends

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 400 | **790 127 045** | 24.600 |
| 500 | **790 116 045** | 22.000 |
| 630 | **790 117 029** | 29.000 |



## Hoist unit

- To be assembled on the base machine
- Consisting of framework, rotating arm and weight compensator (type 400, 500) / electric motor (type 630)
- Motor (type 630) 400 V with 2 hoisting speeds

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 400 | **790 153 028** | 93.000 |
| 500 | **790 340 066** | 80.000 |
| 630 | **790 155 027** | 261.000 |



## Lifting cylinder

- Accessory for type 630 hoist unit
- To raise up the hoist column during the installation, operated by means of the machine hydraulic unit

| Code | Weight (kg) |
|---|---|
| **790 117 094** | 13.000 |



## Set of replacement blades for planer

- Blade has 2 cutting edges (1 set = 2 blades)

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 400 | **790 112 110** | 0.129 |
| 500 | **790 340 045** | 0.157 |
| 630 | **790 117 041** | 0.229 |



## Label printer cable for CNC machines

- Cable to connect the CNC 4.0 to same label printer (code 790131066) used with automatic IR welding machines

| Type | Code | Weight (kg) |
|---|---|---|
| Cable with special connector | **790 155 343** | 0.120 |



## Connecting interface to WR200 for ECOS 400-500-630

- To connect the ECOS hydraulic unit to the welding recorder WR 200 ECO version, for fusion pressure monitoring in real time
- Just plug it directly in between the hydraulic quick couplers of the unit and the outlet hose, no need of tools to assemble

| Type | Code | Weight (kg) |
|---|---|---|
| Connecting interface to WR200 | **790 117 060** | 1.300 |















## GF 800 - 1000 - 1200
### Butt fusion machine for construction site

Butt Fusion machine to joint PE, PP pipes and fittings for pressure piping systems on building sites and in trenches.
Hydraulically operated with manual control unit.
Control box with integrated temperature controller and power outlets.
For proper handling of the heating element and planer we recommend the assembling of the hoist unit (to be ordered separately).
Including transport packaging (wooden crate); reduction clamping inserts and other accessories to be ordered separately.

- **BASE MACHINE**
- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 45° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Double-sided heating element pull-off mechanism to optimise the change-over phase
- Weight: Type 800 = 690 kg, Type 1000 = 1238 kg, Type 1200 = 1370 kg
- **HYDRAULIC UNIT**
- Compact and robust, with full closed metal housing and two handles for carrying
- Precise pressure setting and fine adjusting
- Joystick operation of machine carriage
- Clearly visible, vibration-free pressure gauge with precision scaling
- Accumulator for pressure equalization during the cooling phase
- Max operating pressure: 200 bar
- Weight:  41 kg
- **PLANER**
- Powerful parallel planer for single or double-sided facing of pipe ends
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up
- Weight: Type 800 = 185 kg, Type 1000 = 308 kg, Type 1200 = 356 kg
- **HEATING ELEMENT**
- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Input voltage: 400 V
- Weight: Type 800 = 56 kg, Type 1000 = 88 kg, Type 1200 = 101 kg
- Input power: Type 800 = 12 kW, Type 1000= 15 kW, Type 1200 = 16 kW
- **CONTROL BOX**
- Contains all safety and functional components such as static relay, FI protective switch, temperature control
- Compact unit in steel box with enamel-coated protective frame
- Integrated power outlets for all machine components, only 1 plug to the generator
- Weight: 29 kg
- **CASE**
- For safe storage of planer and heating element
- Weight: Type 800 = 226 kg, Type 1000 = 341 kg, Type 1200 = 412 kg

| Type | d-d (mm) | Performance | Code | Weight (kg) |
|---|---|---|---|---|
| GF 800 | 500 - 800 | 400 V/15000 W | **790 123 025** | 1550.000 |
| GF 1000 | 630 - 1000 | 400 V/19500 W | **790 124 025** | 2443.000 |
| GF 1200 | 710 - 1200 | 400 V/20500 W | **790 125 025** | 2668.000 |



## Type 800 Reduction clamping inserts

- d 500 - 710 mm
- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- Reductions in inch sizes or special diameters upon request

In order to mount the inserts d 500/d 560, the reduction clamping insert d 630, code 790 123 011 must also be used

| d (mm) | narrow Code | Weight (kg) | wide Code | Weight (kg) |
|---|---|---|---|---|
| 500 | **790 117 238** | 3.700 | **790 117 012** | 4.500 |
| 560 | **790 117 239** | 4.280 | **790 117 013** | 5.550 |
| 630 | **790 123 219** | 9.000 | **790 123 011** | 11.000 |
| 710 | **790 123 220** | 9.000 | **790 123 012** | 12.500 |



## Type 1000 Reduction clamping inserts

- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- Reductions in inch sizes or special diameters upon request

In order to mount the inserts d 710, the reduction clamping insert d 800 mm, code 790 124 011, must also be used

| d (mm) | narrow Code | Weight (kg) | wide Code | Weight (kg) |
|---|---|---|---|---|
| 630 | **790 123 219** | 9.000 | **790 123 011** | 11.000 |
| 710 | **790 123 220** | 9.000 | **790 123 012** | 12.500 |
| 800 | | | **790 124 011** | 18.000 |
| 900 | | | **790 124 012** | 19.000 |



## Type 1200 Reduction clamping inserts

- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- Reductions in inch sizes or special diameters upon request

In order to mount the inserts d 710, the reduction clamping insert d 800 mm, code 790 124 011, must also be used
In order to mount the inserts d 800/d 900, the reduction clamping insert d 1000, code 790 125 011, must also be used.

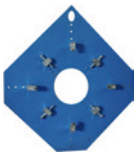
| d (mm) | narrow Code | Weight (kg) | wide Code | Weight (kg) |
|---|---|---|---|---|
| 710 | **790 125 030** | 9.000 | **790 125 028** | 12.500 |
| 800 | | | **790 124 011** | 18.000 |
| 900 | | | **790 124 012** | 19.000 |
| 1000 | | | **790 125 011** | 20.000 |



## Reduction clamping inserts-set

- 8 wide clamping inserts per dimension

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 500 - 710 | **790 350 019** | 278.000 |
| 630 - 900 | **790 355 019** | 428.000 |
| 710 - 1000 | **790 360 019** | 498.000 |



## Flange adapter clamping unit

- For correct clamping and fusion jointing of short-ended stub ends

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 500 - 800 | **790 123 029** | 120.000 |
| 630 - 1000 | **790 124 029** | 153.000 |
| 710 - 1200 | **790 125 029** | 231.000 |



## Hoist unit

- To be assembled on the base machine
- Consisting of framework, rotating arm and electric motor
- Motor 400 V with 2 hoisting speeds
- Height from floor: Type 800 = 4.06 m, Type 1000 = 4.65 m, Type 1200 = 5.00 m

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 800 | **790 123 060** | 220.000 |
| 1000 | **790 124 060** | 350.000 |
| 1200 | **790 125 060** | 368.000 |



## Set of replacement blades for planer

- Blade has 2 cutting edges
- 1 set = 2 blades (Type 800) or 4 blades (Type 1000, 1200)

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 800 | **790 117 041** | 0.229 |
| 1000 | **790 124 021** | 0.299 |
| 1200 | **790 125 021** | 0.405 |

# RU 160-630



## RU Repair Unit

- Frameless butt fusion machine with 2 clamping devices
- Designed to fit narrow working spaces or to be used directly on piping systems
- For repairing or installing pipelines into trenches or inside buildings and industrial plants
- To be used in combination with heating element, planer, hydraulic unit of corresponding manually operated machine size TOP 2.0 (all sizes) or ECOS (up to d 315 mm)
- Fully compatible with clamp reduction inserts of standard TOP/ECOS butt fusion machines
- Additional outer clamp available as optional to improve the alignment of the components to be welded

| Type | Code | Weight (kg) |
|---|---|---|
| RU 160 | **790 150 045** | 8.800 |
| RU 250 | **790 151 045** | 18.000 |
| RU 315 | **790 152 045** | 20.000 |
| RU 400 | **790 153 045** | 31.000 |
| RU 500 | **790 154 045** | 62.000 |
| RU 630 | **790 155 045** | 73.000 |




## RU Outer Clamp

- An additional clamping device can be mounted on the cylinders to improve the alignment of the components to be welded.

| Type | Code | Weight (kg) |
|---|---|---|
| RU 160 | **790 150 046** | 2.000 |
| RU 250 | **790 151 046** | 4.400 |
| RU 315 | **790 152 046** | 5.400 |
| RU 400 | **790 153 046** | 9.300 |
| RU 500 | **790 154 046** | 13.500 |
| RU 630 | **790 155 046** | 24.700 |



## WR 200 / WR 200 S
### Welding Recorder for manually operated butt fusion machines (ECOS, TOP, GF)

The WR 200 / WR 200 S assists the welder to ensure the quality of the butt-fusion jointing according to country specific standards. The user is guided through all preparation and fusion steps. The selection of the fusion data like the used material, welding standard, diameter and wall thickness (SDR) is supported by a menu. The complete fusion sequence is supervised and recorded. The welding protocols can be easily exported via USB stick to any personal computer for further management or printout. The welding protocols can be directly printed out at jobsite by means of the on-board printer (WR 200 only). The recorder is protected by a robust plastic case of IP 65 protection class. The power and connecting cables are stored in a separate box (WR 200) or in a compartment directly integrated in the case (WR 200 S). The WR 200 can be connected to hydraulically operated butt-fusion machines for construction site, even by later retrofitting of machines in service centres. The WR 200 S **ECO version** is also available, to specifically work in combination with ECO S machine models: particularly, to fit the ECO S 400 - 500 - 630, a special connection interface for the hydraulic unit is needed (available as accessory - product code 790 117 060).

**Description:**

- Intuitive user guidance menu
- Welding standard selection e.g. DVS, UNI, WIS, ISO
- Welding process customisable: 4 user-defined cycles available
- Additional data input as: operator-ID, job and order number, joint number, GPS coordinates from an independent device
- On-board printer for direct print pout of welding protocols at jobsite (WR 200 only)
- USB interface for welding protocols transfer
- Internal memory capacity: 250 protocols
- Selection of operator language
- Battery support for an autonomy of 10 hours (no data loss during power interruption)
- “Rent Guardian” function to set and control the rental period of the unit
- Available protocols format: TXT for easy printout, CSV for database management with Welding Book application
- Fully compatible with butt-fusion machines already working with former welding recorder models SUVI® 50 and WR 100
- Working temperature range: -10°C to +50°C

| Type | Performance | Dimensions | Code | Weight (kg) |
|---|---|---|---|---|
| WR 200 S - ECO | 230 V | 350x300x250 mm | **790 119 452** | 5.000 |
| WR 200 S | 230 V | 350x300x250 mm | **790 119 451** | 5.000 |
| WR 200 | 230 V | 350x300x250 mm | **790 119 401** | 5.000 |
| WR 200 S - ECO CYRILLIC | 230 V | 350x300x250 mm | **790 119 455** | 5.000 |
| WR 200 S CYRILLIC | 230 V | 350x300x250 mm | **790 119 454** | 5.000 |
| WR 200 CYRILLIC | 230 V | 350x300x250 mm | **790 119 425** | 5.500 |

Utility Range

# Trench Machines

## IPS dimensional range





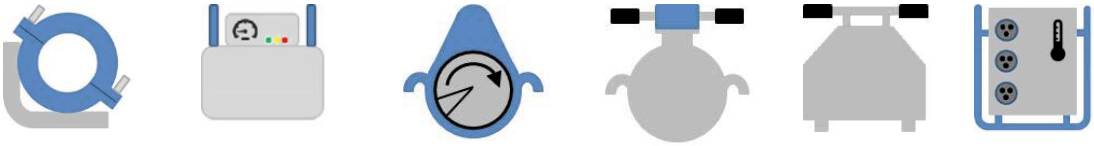
| IPS Nominal pipe diameter | Machine size | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 160 | 250 | 315 | 400 | 500 | 630 | 800* | 1000* | 1200* |
| 1 ½" | | | | | | | | | |
| 2" | | | | | | | | | |
| 2 ½" | | | | | | | | | |
| 3" | | | | | | | | | |
| 4" | | | | | | | | | |
| 5" | | | | | | | | | |
| 6" | | | | | | | | | |
| 8" | | | | | | | | | |
| 10" | | | | | | | | | |
| 12" | | | | | | | | | |
| 13" | | | | | | | | | |
| 14" | | | | | | | | | |
| 16" | | | | | | | | | |
| 18" | | | | | | | | | |
| 20" | | | | | | | | | |
| 22" | | | | | | | | | |
| 24" | | | | | | | | | |
| 26" | | | | | | | | | |
| 28" | | | | | | | | | |
| 30" | | | | | | | | | |
| 32" | | | | | | | | | |
| 36" | | | | | | | | | |
| 40" | | | | | | | | | |
| 42" | | | | | | | | | |
| 48" | | | | | | | | | |

* Machine suitable for the maximum dimension of the range (32" for GF 800, 40" for GF 1000, 48" for GF 1200) available on request

Utility Range

# Trench Machines

## Components codes



| Machine type | Base Machine | Hydraulic Unit | Planer | Heating Element | Case | Temp. controller / Control Box |
|---|---|---|---|---|---|---|
| ECOS 160 | 790 150 001 | 790 150 013 | 790 150 014 | 790 150 031 | 790 150 295 | - |
| ECOS 250 | 790 151 030 | 790 152 009 | 790 151 041 | 790 151 056 | 790 151 027 | - |
| ECOS 315 | 790 152 024 | 790 152 009 | 790 152 041 | 790152 034 | 790 152 027 | - |
| TOP 2.0 160 | 790 150 001 | 790 151 006 | 790 150 000 | 790 114 004 | 790 150 295 | - |
| TOP 2.0 250 | 790 151 001 | 790 151 006 | 790 151 038 | 790 115 004 | 790151 027 | - |
| TOP 2.0 315 | 790 152 001 | 790 151 006 | 790 151 038 | 790 112 083 | 790 152 027 | - |
| CNC 4.0 160 | 790 150 001 + 790 150 002* | 790 151 026 | 790 150 000 | 790 114 004 | 790 150 295 | - |
| CNC 4.0 250 | 790 151 001 + 790 152 002* | 790 151 026 | 790 151 038 | 790 115 004 | 790 151 027 | - |
| CNC 4.0 315 | 790 152 001 + 790 152 002* | 790 151 026 | 790 151 038 | 790 112 083 | 790 152 027 | - |
| ECOS 400 | 790 153 007 | 790 340 042 | 790 127 003 | 790 127 004 | 790 127 005 | 790 153 006 |
| TOP 2.0 400 | 790 153 007 | 790 153 012 | 790 153 002 | 790 127 004 | 790 127 005 | - |
| CNC 4.0 400 | 790 153 007 + 790 153 010* | 790 153 026 | 790 153 002 | 790 127 004 | 790 127 005 | - |
| ECOS 500 | 790 340 001 | 790 340 005 | 790 154 020 | 790 116 004 | 790 116 006 | 790 340 012 |
| TOP 2.0 500 | 790 340 001 | 790 154 012 | 790 154 022 | 790 154 003 | 790 116 006 | - |
| CNC 4.0 500 | 790 340 001 + 790 116 043* | 790 154 026 | 790 154 022 | 790 154 003 | 790 116 006 | - |
| ECOS 630 | 790 117 034 | 790 340 005 | 790 117 003 | 790 117 017 | 790 117 018 | 790 340 012 |
| TOP 2.0 630 | 790 117 034 | 790 154 012 | 790 155 008 | 790 155 007 | 790 117 018 | - |
| CNC 4.0 630 | 790 117 034 + 790 117 031* | 790 154 026 | 790 155 008 | 790 155 007 | 790 117 018 | - |
| GF 800 | 790 123 023 | 790 123 010 | 790 123 003 | 790 123 004 | 790 123 007 | 790 123 009 |
| GF 1000 | 790 124 023 | 790 123 010 | 790 124 003 | 790 124 004 | 790 124 006 | 790 123 009 |
| GF 1200 | 790 125 023 | 790 123 010 | 790 125 003 | 790 125 004 | 790 125 006 | 790 125 009 |

* Potentiometer kit

# Services



## "Fit for Service" NDT (Non-Destructive Testing)

Using ultrasonic technology, we are able to offer our customers the highest quality control NDT for our butt fusion welds in ecoFIT, Design-Flow, PROGEF and electrofusion for ELGEF. Key projects around the world rely on NDT technology to ensure high safety and quality welds in metal piping. Today, GF Piping Systems' approach to total quality management has resulted in the world's first NDT Service with a pass or fail statement on the butt fusion and electrofusion weld of ecoFIT, Design-Flow, PROGEF and ELGEF systems. Under certain conditions, a 10-year warranty is possible.

**Technical Data:**

- Proven NDT process
- Unique documented weld and pass / fail process
- Higher number of tests per day vs existing solutions
- No onsite health & safety risk compared to X-ray technology
- Cost efficient compared to existing solutions

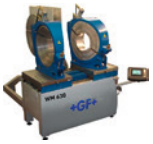
| Description | Code |
|---|---|
| Fit for Service NDT - Daily Rate | **700 900 104** |
| Fit for Service NDT - Expense Unit Rate | **700 900 108** |

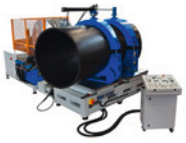
Utility Range

# Workshop Machines

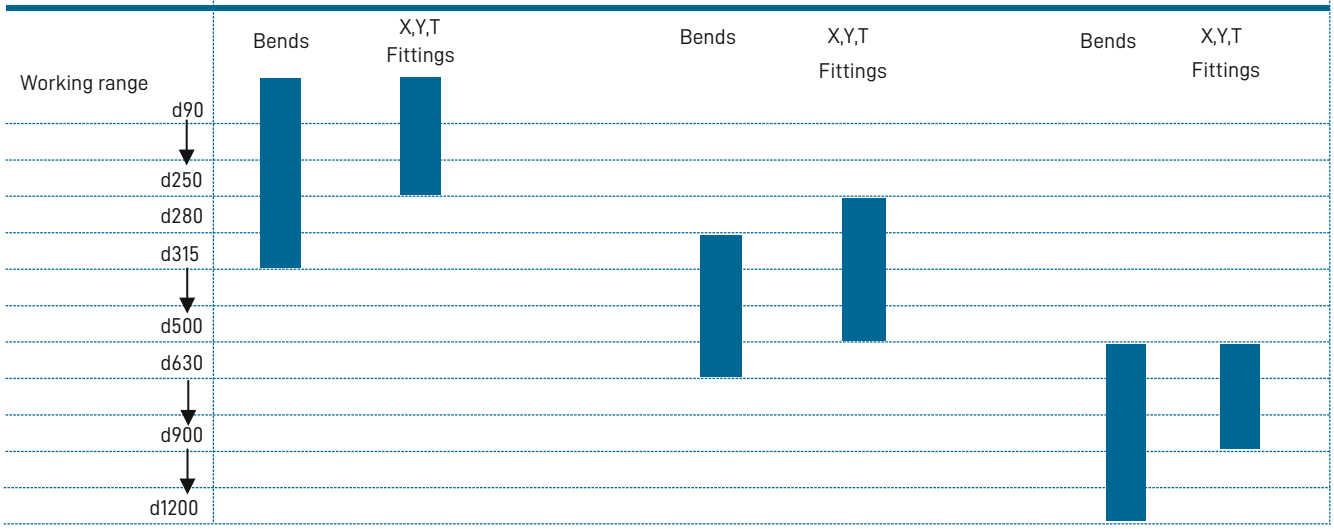
## Product Range Overview

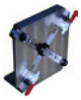
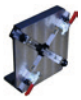






| Characteristic | WM 315 | WM 630 | WM 1200 |
|---|---|---|---|
| Max jointing diameter (mm) | 315 | 630 | 1200 |
| Jointing material | | PE, PP, PB, PVDF | |
| Working range (°C) | -10/+45 | -10/+45 | -10/+45 |
| Input voltage (Vac) | 400 | 400 | 400 |
| Operation control | Manual, CNC | Manual, CNC | Manual+WR |
| Performance (W) | 4620 | 15600 | 41000 |
| clamping inserts | √ | √ | √ |
| Wide clamps for pipes | √ | √ | √ |
| fittings | Optional | Optional | |
| Flange adapter clamping unit | Optional | Optional | |
| T, X, Y clamping units | Optional | Optional | Optional |
| Fusion protocols, transfer via USB stick | CNC version | CNC version | √ |
| Weight without package (Kg) | 460 | 1870 | 8000 |



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|  | WM 630 | 598 |
|  | WM 630 Accessories | 600 |
|  | WM 1200 | 603 |
|  | WM 1200 Accessories | 604 |




## WM 315 TOP 2.0
## Workshop butt fusion machine

- Machine for jointing segmented fittings for applications with pressure piping systems
- Maximum jointing angle 45°
- Dimensional range d90 - 315 mm
- To produce T and Y fittings in the dimensional range d90 - 250 mm, special accessories are required
- **Machine description**
- Clear control panel consisting of digital system pressure display, electronic heating element temperature control, timer with 2 stop times
- Automatic pressure control during the cooling time
- Built-in data logger and realtime communication with mobile smartphones (at least iOS 11 or Android 7) during the welding process and fusion data download, working in combination with TOP WeldinAir mobile application
- Precise pressure setting and fine adjusting
- Carriage movements are carried out by means of pushbuttons
- The clamping units are mounted on supports, each of which can be adjusted transversely
- Each clamping unit can be turned up to 22.5°
- Each clamping unit is provided with a complete set of reductions d90 - 280 mm
- Precision heating element with electronic temperature control (3000 W)
- High-quality PTFE coating with long service life
- Heating element pull-off mechanism
- Powerful planer (1200 W) with optimized cutting geometry for even and chatter-free planing
- Load transfer via robust chain drive
- Mechanical stops to provide single sided planing and accurate facing depth
- Planer is secured with a mechanical locking system and a micro switch
- Including transport packaging, without accessories

| d-d (mm) | Performance | Description | Code | Weight (kg) |
|---|---|---|---|---|
| 90 - 315 | 400 V/4620 W | With wide clamping units for pipes | **790 118 005** | 522.000 |
| 90 - 315 | 400 V/4620 W | With narrow clamping units for fittings | **790 118 006** | 522.000 |

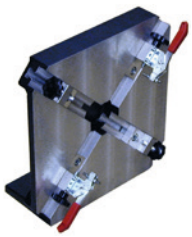



## WM 315 CNC 4.0
## Automatic workshop butt fusion machine

- Machine for jointing segmented fittings for applications with pressure piping systems
- Fully automated fusion process by the use of state of the art PLC and touch screen
- Maximum jointing angle 45°
- Dimensional range d90 - 315 mm
- To produce T and Y fittings in the dimensional range d90 - 250 mm, special accessories are required
- **Machine description**
- Intuitive colour touch screen interface
- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines
- Real time communication with mobile smartphone during the welding process, the data transfer and fusion protocols collection, in combination with WeldinAir mobile application
- Integrated LAN port on a built-in advanced communication module to directly connect the machine with the IT control system operating in the workshop, for real time monitoring of the fusion parameters and to make possible for the customer to implement on his own (according to his specific needs) the digital information flow from/to the machine
- Transfer of collected fusion data directly from jobsite to the headquarter by means of the smartphone
- Compatible with label printer
- 10 freely programmable fusion cycles (e.g. for non standard pipe dimensions)
- Selection of language
- On site check of the memorized fusion protocols status directly on the touchscreen
- Transfer of memorized fusion protocols to an external PC via USB memory stick (included)
- Fusion protocols compatible with Welding Book application
- The clamping units are mounted on supports, each of which can be adjusted transversely
- Each clamping unit can be turned up to 22.5°
- Each clamping unit is provided with a complete set of reductions d90 - 280 mm
- Precision heating element with electronic temperature control (3000 W)
- High-quality PTFE coating with long service life
- The heating element is removed automatically during the change-over phase
- Powerful planer (1200 W) with optimized cutting geometry for even and chatter-free planing
- Load transfer via robust chain drive
- Mechanical stops to provide single sided planing and accurate facing depth
- Planer is secured with a mechanical locking system and a micro switch
- Including transport packaging, without accessories

| d-d (mm) | Performance | Description | Code | Weight (kg) |
|---|---|---|---|---|
| 90 - 315 | 400 V/4620 W | With wide clamping units for pipes | **790 118 009** | 546.000 |
| 90 - 315 | 400 V/4620 W | With narrow clamping units for fittings | **790118016** | 546.000 |

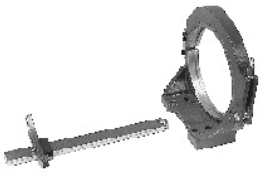
# WM 315 Accessories



## Flange adapter clamping unit

- For centric fusion of flange adapters
- Easy, correct attachment of clamping unit in the basic machine

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 90 - 315 | **790 118 031** | 16.000 |



## Base clamping unit for fittings with adapter ring, wide

- For clamping fittings of d315 mm as well as for fastening reduction clamping inserts for fittings d90 to 280 mm. Guide shaft for pipe support und back stop, with pipe support d315 mm
- Each clamping unit can be turned up to 15°
- L = left
- R = right

| d (mm) | Type | Code | Weight (kg) |
|---|---|---|---|
| 315 | L | **790 118 011** | 15.000 |
| 315 | R | **790 118 012** | 15.000 |



## Reduction clamping inserts, narrow

- d 90 - 280 mm
- Each code number defines 1 piece of reduction clamping insert.

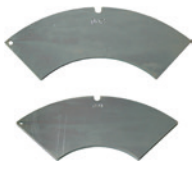
| d (mm) | Code | Weight (kg) |
|---|---|---|
| 90 | **790 112 098** | 1.265 |
| 110 | **790 112 099** | 1.220 |
| 125 | **790 112 100** | 1.215 |
| 140 | **790 112 101** | 1.139 |
| 160 | **790 112 102** | 1.080 |
| 180 | **790 112 103** | 1.006 |
| 200 | **790 112 104** | 0.945 |
| 225 | **790 112 105** | 0.833 |
| 250 | **790 112 106** | 0.712 |
| 280 | **790 112 107** | 0.562 |



## Clamping insert, narrow, d 315

- For clamping of elbows, flange adapters, etc., d = 315 mm, 1 piece = 1 Alu-half-shell
- Each code number defines 1 piece reduction clamping insert. Per outer base clamping unit 2 reduction clamping inserts are needed.

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 315 | **790 118 028** | 0.741 |



## Set of pipe supports

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 90 - 280 | **790 118 025** | 6.700 |



### T-fitting clamping unit

- For the rational manufacturing of 90° T-fittings in the sizes d 90 - 250 mm
- Three-piece, precise clamping tool for easy mounting on the machine bed
- Integrated eyelets for lifting
- **Complete** with reduction clamping inserts d 90 - 225 mm

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 90 - 250 | **790 118 032** | 120.000 |



### Y-fitting clamping unit

- For the rational manufacturing of 30° to 45° Y-fittings in the sizes d 90 to 250 mm
- Three-piece, precise clamping tool for easy mounting on the machine bed
- **Complete** with reduction clamping inserts d 90 - 225 mm

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 90 - 250 | **790 118 033** | 179.000 |



### Back stop

- Prevents the components from slipping out of the clamping device during fusion.

| Code | Weight (kg) |
|---|---|
| **790 118 026** | 4.000 |



### Set of replacement blades for planer

- Blade has 2 cutting edges (1 set = 2 pieces)

| description | Code | Weight (kg) |
|---|---|---|
| long | **790 118 042** | 0.220 |
| short | **790 118 043** | 0.045 |



### Label printer cable for CNC machines

- Cable to connect the CNC 4.0 to same label printer (code 790131066) used with automatic IR welding machines

| Type | Code | Weight (kg) |
|---|---|---|
| Cable with special connector | **790 155 343** | 0.120 |

# WM 630



## WM 630

- Machine for jointing segmented fittings for applications with pressure piping systems
- Maximum jointing angle 45°
- Dimensional range d315 - 630 mm
- To produce T and Y fittings in the dimensional range d280 - 500 mm, special accessories are required
- Control panel assembled with pressure adjustment valve, pressure selection switch (planing or fusion pressure), selection switch for single or double sided planing process, gauge, joy stick and emergency stop
- The clamping units are mounted on supports, each of which can be adjusted transversely
- Each clamping unit can be turned up to 22.5°
- Each clamping unit is provided with a complete set of reductions d315 - 560 mm
- Hydraulically opening and closing of the upper clamping tools, manual locking with bolts and nuts
- Hydraulically operated insertion of planer and heating element
- Precision heating element with electronic temperature control (12000 W)
- High-quality PTFE coating with long service life
- Powerful planer (1100 W) with optimized cutting geometry for even and chatter-free planing
- Load transfer via robust chain drive
- During the planing process each slide could be moved separately (single sided planing)
- Including transport packaging, without accessories

| d-d (mm) | Performance | Code | Weight (kg) |
|---|---|---|---|
| 315 - 630 | 400 V / 15600 W | **790 108 020** | 1870.000 |

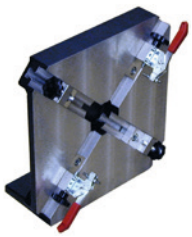



## WM 630 CNC 4.0
## Automatic workshop butt fusion machine

- Machine for jointing segmented fittings for applications with pressure piping systems
- Fully automated fusion process by the use of state of the art PLC and touch screen
- Maximum jointing angle 45°
- Dimensional range d315 - 630 mm
- To produce T and Y fittings in the dimensional range d280 - 500 mm, special accessories are required
- Intuitive colour touch screen interface
- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines
- Real time communication with mobile smartphone during the welding process, the data transfer and fusion protocols collection, in combination with WeldinAir mobile application
- Integrated LAN port on a built-in advanced communication module to directly connect the machine with the IT control system operating in the workshop, for real time monitoring of the fusion parameters and to make possible for the customer to implement on his own (according to his specific needs) the digital information flow from/to the machine
- Compatible with label printer
- 10 freely programmable fusion cycles (e.g. for non standard pipe dimensions)
- Selection of language
- Transfer of memorized fusion protocols to an external PC via USB memory stick (included)
- On site check of the memorized fusion protocols status directly on the touchscreen
- Fusion protocols compatible with Welding Book application
- The clamping units are mounted on supports, each of which can be adjusted transversely
- Each clamping unit can be turned up to 22.5°
- Each clamping unit is provided with a complete set of reductions d315 - 560 mm
- Hydraulically opening and closing of the upper clamping tools, manual locking with bolts and nuts
- Hydraulically operated insertion of planer and heating element
- Precision heating element with electronic temperature control (12000 W)
- High-quality PTFE coating with long service life
- Powerful planer (1100 W) with optimized cutting geometry for even and chatter-free planing
- Load transfer via robust chain drive
- During the planing process each slide could be moved separately (single sided planing)
- Including transport packaging, without accessories

| d-d (mm) | Performance | Code | Weight (kg) |
|---|---|---|---|
| 315 - 630 | 400 V/15600 W | **790 108 101** | 1870.000 |

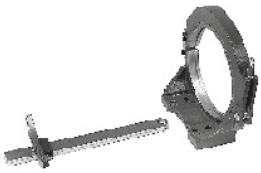
# WM 630 Accessories



## Flange adapter clamping unit

- For centric fusion of flange adapters
- Easy, correct attachment of clamping unit in the basic machine

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 315 - 630 | **790 108 031** | 194.000 |



## Base clamping unit for fittings

- For clamping fittings of d630 mm as well as for the reduction clamping inserts for fittings of d315 to 560 mm. Guide shaft for pipe support and back stop, with pipe support d630 mm
- L = left
- R = right

| d (mm) | Type | Code | Weight (kg) |
|---|---|---|---|
| 630 | L | **790 108 017** | 150.000 |
| 630 | R | **790 108 018** | 150.000 |



## Reduction clamping inserts, narrow

- Each code number defines 1 piece of reduction clamping insert.

In order to mount the inserts d 315/d 355/d 400/d 450 to the base clamp d 630, the reduction clamping insert d 500 mm, code 790 117 012, must also be used

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 315 | **790 116 020** | 3.622 |
| 355 | **790 116 021** | 3.267 |
| 400 | **790 116 022** | 2.383 |
| 450 | **790 116 023** | 2.273 |
| 500 | **790 117 238** | 3.700 |
| 560 | **790 117 239** | 4.280 |

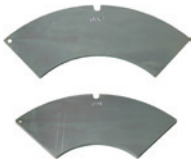


## Reduction clamping inserts, wide

- Each code number defines 1 piece of reduction clamping insert.

In order to mount the inserts d 315/d 355/d 400/d 450 to the base clamp d 630, the reduction clamping insert d 500 mm, code 790 117 012, must also be used

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 355 | **790 116 013** | 3.727 |
| 315 | **790 116 012** | 3.698 |
| 400 | **790 116 014** | 3.836 |
| 450 | **790 116 015** | 3.276 |
| 500 | **790 117 012** | 4.500 |
| 560 | **790 117 013** | 5.550 |



## Set of pipe supports

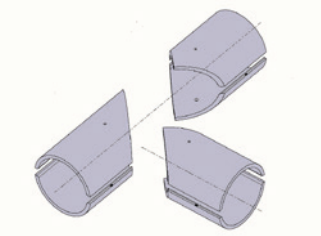
| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 315 - 560 | **790 108 009** | 16.000 |



### T-fitting clamping unit

- For the rational manufacturing of 90° T-fittings in the sizes d 315 to 500 mm
- Three-piece, precise clamping tool for easy mounting on the machine bed
- Integrated eyelets for lifting
- Complete with reduction clamping inserts

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 315 - 500 | **790 108 032** | 491.000 |



### Additional clamping inserts set d280 mm for T-fitting

- To be used in combination with clamping unit code 790 108 032 for the manufacturing of T-fittings with pipe size d280 mm (from SDR 33 to SDR 11) with WM630
- If to be used with already existing WM630 machines, please, get in touch with GF Omicron directly to get information about compatibility and relevant machine upgrade

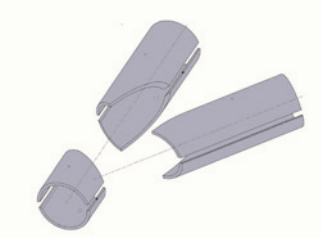
| d (mm) | Code | Weight (kg) |
|---|---|---|
| 280 | **790 108 359** | 49.300 |



### Y-fitting clamping unit

- For the rational manufacturing of 30° to 45° Y-fittings (branches) in the sizes d 315 - 500 mm
- Three-piece, precise clamping tool for easy mounting on the machine bed
- Integrated eyelets for lifting
- Complete with reduction clamping inserts

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 315 - 500 | **790 108 033** | 650.000 |



### Additional clamping inserts set d280 mm for Y-fitting

- To be used in combination with clamping unit code 790 108 033 for the manufacturing of Y-fittings with pipe size d280 mm (from SDR 33 to SDR 11) with WM630
- If to be used with already existing WM630 machines, please, get in touch with GF Omicron directly to get information about compatibility and relevant machine upgrade

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 280 | **790 108 360** | 70.600 |



### Back stop

- Prevents the components from slipping out of the clamping device during fusion.

| Code | Weight (kg) |
|---|---|
| **790 108 026** | 32.000 |



### Set of replacement blades for planer

- (1 set = 4 blades)

| Code | Weight (kg) |
|---|---|
| **790 108 043** | 0.518 |



## Label printer cable for CNC machines

- Cable to connect the CNC 4.0 to same label printer (code 790131066) used with automatic IR welding machines

| Type | Code | Weight (kg) |
|---|---|---|
| Cable with special connector | **790 155 343** | 0.120 |



## WM 1200
## Workshop butt fusion machine

- Machine for jointing segmented fittings for applications with pressure piping systems
- Equipped with Welding Recorder
- Maximum jointing angle 45°
- Dimensional range d630 - 1200 mm
- To produce T and Y fittings in the dimensional range d630 - 900 mm, special accessories are required
- **Machine description**
- Moveable control panel assembled with potentiometer to adjust the fusion and the planing pressure, selection switch for single or double sided planing process, gauge, Open/Close and pressure release button, emergency stop
- Built in data logger
- Transfer of memorized fusion protocols to an external PC via USB memory stick (included)
- Fusion protocols compatible with Welding Book application
- The clamping units are mounted on supports, each of which can be adjusted transversely
- Each clamping unit can be turned up to 22.5°
- Each clamping unit is provided with a complete set of reductions d630 - 1000 mm
- Hydraulically opening and closing of the clamping units
- Hydraulic locking mechanism of the clamping units
- Hydraulically operated insertion of planer and heating element
- Additional hydraulic cylinder assembled on top of the clamping units to guarantee an optimized application of the fusion force, especially for pipe sizes bigger than d900 mm
- Hardened, hard chrome plated linear guide rails for extreme loads
- Precision heating element with electronic temperature control (30000 W)
- High-quality PTFE coating with long service life
- Powerful planer (2200 W) with optimized cutting geometry for even and chatter-free planing
- Load transfer via robust chain drive
- During the planing process each slide could be moved separately (single sided planing)
- Including transport packaging, without accessories
- Dimensions: 2400 L x 1400 W x 2070 H in mm

| d-d (mm) | Performance | Code | Weight (kg) |
|---|---|---|---|
| 630 - 1200 | 400 V/41000 W | **790 126 001** | 8000.000 |

# WM 1200 Accessories



## T-fitting clamping unit

- For the rational manufacturing of 90° T-fittings in the sizes d 630 - 900 mm
- Three-piece, precise clamping tool for easy mounting on the machine bed
- Integrated eyelets for lifting
- Complete with reduction clamping inserts

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 630 - 900 | **790 126 011** | 4620.000 |



## Y-fitting clamping unit

- For the rational manufacturing of 30° to 45° Y-fittings (branches) in the sizes d 630 - 900 mm
- Three-piece, precise clamping tool for easy mounting on the machine bed
- Integrated eyelets for lifting
- Complete with reduction clamping inserts

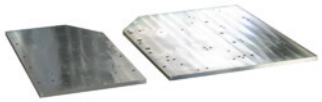
| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 630 - 900 | **790 126 012** | 5500.000 |



## X-fitting clamping unit

- To weld a X-piece the T-piece unit is necessary

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 630 - 900 | **790 126 013** | 2900.000 |



## Base Plate T-Y-X pieces

- To mount the T-Y-X pieces to the support plate

| Code | Weight (kg) |
|---|---|
| **790 126 014** | 1000.000 |



## Set of replacement blades for planer

- 4 blades mounted on each planer disk
- (1 set = 4 blades)

| Code | Weight (kg) |
|---|---|
| **790 126 043** | 0.500 |

# Workshop

## Accessories codes

| Machine Type |  Clamping unit for fittings |  Clamping unit for pipes |  Flange adapter clamping unit |  T-fitting clamping unit |  Y-fitting clamping unit |  X-fitting clamping unit |  Back stop |
|---|---|---|---|---|---|---|---|
| WM 315 FC | Included | 790 302 020 | 790 118 031 | 790 118 032 *(d 90 - 250)* | 790 118 033 *(d 90 - 250)* | 790 118 032 + 790 118 038 + 790 118 039 *(d 90 - 250)* | 790 118 026 |
| WM 315 PC | 790 118 011* ( Left ) 790 118 012* ( Right ) | Included | | | | | |
| WM 630 | 790 108 017* ( Left ) 790 108 018* ( Right ) | Included | 790 108 031 | 790 108 032 *(d 315 - 500)* + 790 108 359 *(d 280)* | 790 108 033 *(d 315 - 500)* + 790 108 360 *(d 280)* | 790 108 032 + 790 108 077 + 790 108 081 *(d 315 - 500)* + 790 304 374 + 790 001 447 *(d 280)* | 790 108 026 |
| WM 1200 | - | Included | - | 790 126 011 + 790 126 014 *(d 630 - 900)* | 790 126 012 + 790 126 014 *(d 630 - 900)* | 790 126 011 + 790 126 013 *(d 630 - 900)* | - |

* Without reduction inserts for clamps (narrow type) and pipe supports: to be ordered separately

Utility Range

# Peeling Tools

## Product Range Overview







| Working range (mm) | Rotary Peeler | RST 1000 | RSE | RSE Multi | | | PT 2 | RTC |
|---|---|---|---|---|---|---|---|---|
| 20 | | | | | | | | |
| 25 | | | | | | | | |
| 32 | | | | | | | | |
| 40 | | | | | | | | |
| 50 | | | | | | | | |
| 63 | | | | | | | | |
| 75 | | | | | | | | |
| 90 | | | | | | | | |
| 110 | | | | | | | | |
| 125 | | | | | | | | |
| 140 | | | | | | | | |
| 160 | | | | | | | | |
| 180 | | | | | | | | |
| 200 | | | | | | | | |
| 225 | | | | | | | | |
| 250 | | | | | | | | |
| 280 | | | | | | | | |
| 315 | | | | | | | | |
| 355 | | | | | | | | |
| 400 | | | | | | | | |
| 450 | | | | | | | | |
| 500 | | | | | | | | |
| 560 | | | | | | | | |
| 630 | | | | | | | | |
| 710 | | | | | | | | |
| 800 | | | | | | | | |
| 900 | | | | | | | | |
| 1000 | | | | | | | | |
| 1200 | | Optional | | | | | | |

# Rotary peelers




## Rotary Peeler RS

**Note:**

- Universal peeling for the preparation of all electrofusion joints
- For pipe ends and saddles
- Materials: PE 80, PE100, PE100-RC, PE-X, PP

* Suitable for PB

| | d (mm) | Article | Code | Weight (kg) |
|---|---|---|---|---|
| | 40 | RS 40 | **790 136 001** | 2.340 |
| | 50 | RS 50 | **790 136 002** | 2.115 |
| | 63 | RS 63 | **790 136 003** | 2.090 |
| | 75 | RS 75 | **790 136 004** | 2.350 |
| | 90 | RS 90 | **790 136 005** | 2.460 |
| | 110 | RS 110 | **790 136 006** | 2.430 |
| * | 125 | RS 125 | **790 136 007** | 3.895 |
| | 140 | RS 140 | **790 136 008** | 3.890 |
| | 160 | RS 160 | **790 136 009** | 3.790 |
| | 180 | RS 180 | **790 136 010** | 4.150 |
| | 200 | RS 200 | **790 136 011** | 3.995 |
| * | 225 | RS 225 | **790 136 012** | 3.935 |
| | 250 | RS 250 | **790 136 013** | 5.575 |
| | 280 | RS 280 | **790 136 014** | 5.440 |
| * | 315 | RS 315 | **790 136 015** | 5.380 |



## Replacement blade to Rotary Peeler RS

| d-d (mm) | Description | Code | Weight (kg) |
|---|---|---|---|
| 40 - 315 | Hard metal | **790 136 100** | 0.013 |




## Transport cases for Rotary Peeler RS

- Included in the scope of delivery of the Rotary Peeler RS

| Suitable for | Article | Code | Weight (kg) | L (mm) | H (mm) | W (mm) |
|---|---|---|---|---|---|---|
| RS 40-RS 63 | RSTC 40-63 | **790 136 221** | 0.718 | 343 | 277 | 125 |
| RS 75-RS 110 | RSTC 75-110 | **790 136 222** | 0.870 | 343 | 277 | 125 |
| RS 125-RS 160 | RSTC 125-160 | **790 136 223** | 0.870 | 490 | 400 | 153 |
| RS 180-RS 225 | RSTC 180-225 | **790 136 213** | 1.796 | 450 | 360 | 132 |
| RS 250-RS 315 | RSTC 250-315 | **790 136 214** | 3.100 | 566 | 435 | 156 |



## Rotary peeling tool RST 1000

- The flexible peeling tool RST 1000 is suitable for preparing welding zones of saddle and coupler jointings for Electrofusion fittings
- To ensure the constant removal of the oxidation layer for PE80 and PE100, a long lasting peeling blade made of carbide is used
- Easy-to-hinge chain links enable the staged operation of pipes d250 to d1000 mm
- Compensation for ovality and variable pipe diameters with loaded spring component in the chain
- Scope of delivery includes: various chain links, spare blade, transport box
- Size transport box = 58 x 48 x 15cm

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 250 - 1000 | **799 300 799** | 10.552 |



## Replacement blade for rotary peeling tool RST 1000

| d-d (mm) | Code | Weight (kg) | Description |
|---|---|---|---|
| 250 - 1000 | **799 300 802** | 0.020 | Replacement blade in carbide |




## Transportbox RST 1000 with inlays

- Included in the scope of delivery of the Rotary Peeler RST 1000
- Size transport box = 58 x 48 x 15cm

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 250 - 1000 | **799 300 806** | 3.000 |



## Spare part RST 1000

| d-d (mm) | Code | Weight (kg) | Description | L (mm) |
|---|---|---|---|---|
| 250 - 1000 | **799 300 795** | 0.50 | Roller wagon w/link piece 55 mm | 215 |
| 250 - 1000 | **799 300 796** | 0.54 | Roller wagon w/link piece 85 mm | 245 |

# Pipe end peelers



## Pipe end peeler RSE SDR11

- **Rotary peeler for reliable pipe preparation prior to electrofusion**
- Consisting of 1 tool including corresponding pipe insert
- Applicable on pipe ends and spigot ends of fittings (straight and coiled pipes)
- Applicable for straight and coiled pipes
- Applicable for metric pipes according to EN12201 und EN1555
- Applicable on pipe material: PE100RC, PE100, PE-Xa, PP
- Operation: manual or with cordless screwdriver
- Maximum peeling length = 85mm
- Peeling blade as reversing knife with 2 cutting edges
- Delivery in transport box

| d (mm) | Code | Weight (kg) | e (mm) | L (mm) | W (mm) | H (mm) |
|---|---|---|---|---|---|---|
| 20 | **799 300 376** | 0.60 | 2.0 | 280 | 50 | 50 |
| 25 | **799 300 377** | 0.65 | 2.3 | 280 | 50 | 50 |
| 32 | **799 300 378** | 0.65 | 3.0 | 280 | 50 | 50 |
| 40 | **799 300 379** | 0.70 | 3.7 | 280 | 55 | 55 |
| 50 | **799 300 380** | 0.80 | 4.6 | 280 | 65 | 65 |
| 63 | **799 300 381** | 1.00 | 5.8 | 280 | 85 | 85 |
| 75 | **799 300 382** | 1.15 | 6.8 | 280 | 95 | 95 |




## Pipe end peeler RSE multi

- **Rotary peeler for reliable pipe preparation prior to electrofusion**
- The adjustable basic tool is suitable for holding dimensional pipe inserts from d20 to d75 mm.
- Applicable on pipe ends and spigot ends of fittings (straight and coiled pipes)
- Applicable for straight and coiled pipes
- Applicable for metric pipes according to EN12201 und EN1555
- Applicable on pipe material: PE100RC, PE100, PE-Xa, PP
- Operation: manual or with cordless screwdriver
- Maximum peeling length = 75mm
- Peeling blade as reversing knife with 2 cutting edges
- Scope of delivery either without or with the pipe inserts specified in the description
- Supplementary pipe inserts to be ordered separately

| Description | Suitable for | Code | Weight (kg) | e (mm) | L (mm) | W (mm) | H (mm) |
|---|---|---|---|---|---|---|---|
| Basic tool + box | | **799 300 350** | 0.58 | | 280 | 95 | 98 |
| Basic tool + case | | **799 300 351** | 1.45 | | 391 | 304 | 134 |
| Basic tool+case+d32+d63 | | **799 300 352** | 1.88 | | 391 | 304 | 134 |
| Basic tool+case +d32+d40+d50+d63 | | **799 300 353** | 2.18 | | 391 | 304 | 134 |
| Insert RSE | d20, SDR7 | **799 300 354** | 0.30 | 3.0 | 45 | 20 | 20 |
| Insert RSE | d20, SDR11 | **799 300 356** | 0.05 | 2.0 | 45 | 20 | 20 |
| Insert RSE | d25, SDR9 | **799 300 355** | 0.10 | 3.0 | 45 | 25 | 25 |
| Insert RSE | d25, SDR11 | **799 300 357** | 0.10 | 2.3 | 45 | 25 | 25 |
| Insert RSE | d32, SDR11 | **799 300 358** | 0.10 | 3.0 | 50 | 30 | 30 |
| Insert RSE | d40, SDR11 | **799 300 359** | 0.10 | 3.7 | 50 | 40 | 40 |
| Insert RSE | d50, SDR11 | **799 300 360** | 0.20 | 4.6 | 60 | 50 | 50 |
| Insert RSE | d50, SDR17 | **799 300 370** | 0.20 | 3.0 | 60 | 50 | 50 |
| Insert RSE | d63, SDR11 | **799 300 361** | 0.33 | 5.8 | 60 | 60 | 60 |
| Insert RSE | d63, SDR17 | **799 300 371** | 0.33 | 3.8 | 60 | 60 | 60 |
| Insert RSE | d75, SDR11 | **799 300 362** | 0.47 | 6.8 | 60 | 70 | 70 |
| Insert RSE | d75, SDR17 | **799 300 372** | 0.47 | 4.5 | 60 | 70 | 70 |
| Blade RSE | | **799 300 347** | 0.01 | | 7 | 7 | 3 |
| Handle RSE | | **790 308 450** | 0.08 | | 60 | 50 | 50 |




### Pipe end peeler RSE multi
### SDR11-17

- **Rotary peeler for reliable pipe preparation prior to electrofusion**
- Applicable on pipe ends and spigot ends of fittings (straight and coiled pipes)
- Applicable for metric pipes according to EN12201 und EN1555
- Applicable for inch pipes of the corresponding sizes (d90-180mm corr. to 3"-6")
- Applicable on pipe material: PE100RC, PE100, PE-Xa, PP
- Operation: manual
- Hard metal peeling blade (Code-no. 790136100, identical to RS peeler)
- Delivery in solid transport case

| d (mm) | d1 (mm) | Code | Weight (kg) | L (mm) | W (mm) | H (mm) |
|---|---|---|---|---|---|---|
| 90 | 180 | **799 300 364** | 4.80 | 494 | 402 | 156 |




### Pipe end peeler RSE 400
### SDR11-17

- **Rotary peeler for reliable pipe preparation prior to electrofusion**
- Applicable on pipe ends and spigot ends of fittings (straight and coiled pipes)
- Applicable for metric pipes according to EN12201 und EN1555
- Applicable for inch pipes of the corresponding sizes (d180-400mm corr. to 8"-16")
- Applicable on pipe material: PE100RC, PE100, PE-Xa, PP
- Operation: manual
- Hard metal peeling blade (Code-no. 790136100, identical to RS peeler)
- Delivery in solid transport case

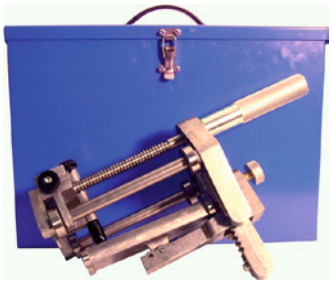
| d (mm) | d1 (mm) | Code | Weight (kg) | L (mm) | W (mm) | H (mm) |
|---|---|---|---|---|---|---|
| 180 | 400 | **799 300 365** | 13.00 | 665 | 562 | 250 |




### Transport cases for pipe end peeler RSE multi

- Transport case is included in the scope of delivery of the peeling tool
- Replacement case including foam inlay

| d (mm) | d1 (mm) | Code | Weight (kg) | L (mm) | B (mm) | H (mm) |
|---|---|---|---|---|---|---|
| 20 | 75 | **790 308 312** | 1.055 | 391 | 304 | 134 |
| 90 | 180 | **790 308 313** | 1.900 | 494 | 402 | 156 |
| 180 | 400 | **790 308 344** | 6.000 | 665 | 562 | 250 |



### Peeling tool PT 2

- Scope of delivery: 1 tool (size 1, 2 or 3) in a metal carrying case.
- The rotating Peeling Tools PT 2 are suitable for preparing pipe ends (when installing Electrofusion couplers and fittings). The tool ensures a constant peeling quality on the complete peeling surface and is suitable for PE80, PE100 and PEX pipes.

| d-d (mm) | Code | Weight (kg) | Description |
|---|---|---|---|
| 63 - 250 | **799 300 752** | 7.500 | Size 1, peeling length 140 mm |
| 110 - 400 | **799 300 755** | 9.900 | Size 2, peeling length 150 mm |
| 110 - 500 | **799 300 756** | 3.900 | Size 3, peeling length 175 mm |



## Peeling tool RTC

- **Rotary peeler for reliable pipe preparation prior to electrofusion**
- Applicable on pipe ends and spigot ends of fittings (straight and coiled pipes)
- **Scope of delivery 315**: 1 Scraper arm, 1 Self-centering chuck base, 1 Aluminium transport case
- **Scope of delivery 710**: 1 Scraper arm, 1 Self-centering chuck base, 2 Aluminium transport case

| d-d (mm) | Code | Weight (kg) | Description |
|---|---|---|---|
| 75 - 315 | **799 150 423** | 9.616 | max. working-range 185 mm |
| 355 - 710 | **799 300 757** | 31.400 | max. working-range 530 mm |



## Replacement blade for peeling tool RTC

| d-d (mm) | Piece | Code | Weight (kg) | Description |
|---|---|---|---|---|
| 75 - 710 | 1 | **799 300 586** | 0.020 | Replacement blade, 1 piece |



## COOL-FIT 2.0/4.0 Foam removal and peeling tool

**Model:**

- Tool for foam removal and peeling of COOL-FIT 2.0 and 4.0 pipes

| d (mm) | Code | Weight (kg) | SDR |
|---|---|---|---|
| 32-90 | **799 738 001** | 10.500 | SDR11 |
| 110-225 | **799 738 003** | 16.500 | d110+d140 SDR11; d160+d225 SDR17 |
| 250-450 | **799 738 004** | 71.000 | SDR17 |



## Hand scraper

- The Hand Scraper can be used to prepare the fusion zone on PE80 pipes.

| Description | Code | Weight (kg) |
|---|---|---|
| Hand scraper with long handle | **799 198 094** | 0.143 |

# Clamping and Installation Tools

## Product Range Overview





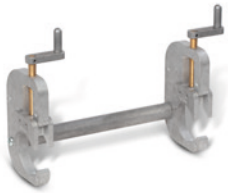






| Working range (cm) | Multi Clamp | Twin Clamp | Double & Quadruple Clamp | Double & Quadruple Clamp with Link | Swivel Clamp | Clamping Device Topload 400 | Clamping Device Topload 630 | Installation Set Topload TL225 | Installation Set Topload TL500 |
|---|---|---|---|---|---|---|---|---|---|
| 20 | | | | | | | | | |
| 25 | | | | | | | | | |
| 32 | | | | | | | | | |
| 40 | | | | | | | | | |
| 50 | | | | | | | | | |
| 63 | | | | | | | | | |
| 75 | | | | | | | | | |
| 90 | | | | | | | | | |
| 110 | | | | | | | | | |
| 125 | | | | | | | | | |
| 140 | | | | | | | | | |
| 160 | | | | | | | | | |
| 180 | | | | | | | | | |
| 200 | | | | | | | | | |
| 225 | | | | | | | | | |
| 250 | | | | | | | | | |
| 280 | | | | | | | | | |
| 315 | | | | | | | | | |
| 355 | | | | | | | | | |
| 400 | | | | | | | | | |
| 450 | | | | | | | | | |
| 500 | | | | | | | | | |
| 560 | | | | | | | | | |
| 630 | | | | | | | | | |
| 710 | | | | | | | | | |
| 800 | | | | | | | | | |
| 900 | | | | | | | | | |
| 1000 | | | | | | | | | |
| 1200 | | | | | | | | | |
| 1400 | | | | | | | | | |
| 1600 | | | | | | | | | |
| 1800 | | | | | | | | | |
| 2000 | | | | | | | | | |

# Pipe clamps



## Clamping tool
## Double, single size

- The easy-to-use Twin Clamp is suitable for coupler connections on straight or coiled pipe. The clamps prevent pullout and pipe movements during the fusion and cooling time.
- Scope of delivery: 1 complete tool.

| d (mm) | Code | Weight (kg) | L (mm) | H (mm) | W (mm) |
|---|---|---|---|---|---|
| 20 | **799 301 536** | 0.658 | 190 | 70 | 80 |
| 25 | **799 301 537** | 0.471 | 190 | 70 | 80 |
| 32 | **799 301 538** | 0.756 | 300 | 80 | 190 |
| 40 | **799 301 539** | 1.079 | 300 | 90 | 200 |
| 50 | **799 301 540** | 1.326 | 300 | 100 | 210 |
| 63 | **799 301 541** | 1.618 | 300 | 110 | 230 |



## Multi clamp

- This tool is quick and easy to use and is suitable for straight forward connections to straight lengths of pipe or saddle branch outlets with electrofusion couplers.
- Scope of delivery: 1 tool without accessories.

| d-d (mm) | Code | Weight (kg) | L (mm) | W (mm) | H (mm) |
|---|---|---|---|---|---|
| 20 - 63 | **799 301 575** | 0.800 | 220 | 80 | 140 |



## Inserts for multi clamp

- The inserts are easily and quickly exchanged. A set consists of 4 inserts, each insert with 2 different dimensions.

| d-d (mm) | Code | Weight (kg) | Description | L (mm) |
|---|---|---|---|---|
| 25 - 20 | **799 150 385** | 0.500 | Inserts, Sets | 200 |
| 32 - 20 | **799 150 386** | 0.500 | Inserts, Sets | 200 |
| 32 - 25 | **799 150 387** | 0.500 | Inserts, Sets | 220 |
| 40 - 32 | **799 150 388** | 0.500 | Inserts, Sets | 200 |
| 50 - 40 | **799 150 389** | 0.500 | Inserts, Sets | 200 |
| 63 - 32 | **799 150 390** | 0.500 | Inserts, Sets | 220 |
| 63 - 40 | **799 150 391** | 0.500 | Inserts, Sets | 200 |
| 63 - 50 | **799 150 392** | 0.500 | Inserts, Sets | 200 |





## Clamping tool
## Double, multi size

- The user-friendly Double Clamps are suitable for coupler connections. They are quickly and easily put into position and prevent pullout and pipe movements during the fusion time and cooling time.
- Scope of delivery: 1 tool consisting of 1 beam (compact), 2 V-clamps complete with ratchet and belt.

| d-d (mm) | Code | Weight (kg) | Length (mm) | Width (mm) | Height (mm) |
|---|---|---|---|---|---|
| 63 - 125 | **799 301 484** | 3.506 | 340 | 180 | 130 |
| 110 - 225 | **799 301 486** | 7.918 | 500 | 240 | 190 |
| 225 - 500 | **799 301 488** | 14.735 | 650 | 300 | 250 |





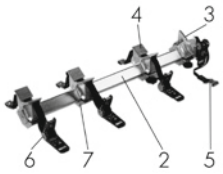
## Clamping tool
## Quadruple, multi size

- The professional Quadruple Clamps are suitable for coupler connections. They are quickly and easily put into position and ensure a stress-free fusion. They prevent pullout and pipe movements during the fusion and cooling times.
- Recommended for difficult site conditions with large installation-induced stresses.
- Scope of delivery: 1 tool consisting of 1 beam (long), 4 V-clamps complete with ratchet and belt.

| d-d (mm) | Code | Weight (kg) | L (mm) | W (mm) | H (mm) |
|---|---|---|---|---|---|
| 63 - 125 | **799 301 459** | 7.142 | 760 | 180 | 130 |
| 110 - 225 | **799 301 461** | 16.490 | 1120 | 240 | 190 |
| 225 - 500 | **799 301 463** | 28.500 | 1510 | 300 | 250 |

## Spare parts for clamps






| Pos | Dimension (mm) | Code | Weight (kg) | Description |
|---|---|---|---|---|
| 4 | 63-125 | **799 900 421** | 0.977 | prism wide |
| | 110-225 | **799 900 423** | 2.000 | prism wide |
| | 225-500 | **799 900 425** | 4.500 | prism wide |
| | 63-125 | **799 150 313** | 0.232 | ratch 25/25/0.7 |
| | 110-225 | **799 150 315** | 0.496 | ratch 35/35/1.1 |
| | 225-500 | **799 150 319** | 1.415 | ratch 50/50/2.1 |
| 7 | | **799 150 314** | 0.050 | clamping screw |



## Clamping tool
## Double, multi size with universal link

- Recommended for the installation of fittings ELGEF Plus and ecoFIT d40 - 200 and d160 - 630mm
- Recommended for the installation of fittings COOL-FIT d32/D75 - d140/D200 and d160/D250 - d450/D630
- The clamping allows installation without tension and avoids movement during fusion and cooling time
- The centrally located adjustable universal link allows installation of electrofusion couplers, elbows and reducers
- Works above, below and alongside the joint
- Adaptor for use with Tee-pieces available (see accessories)

| d (mm) | d1 (mm) | Code | Weight (kg) |
|---|---|---|---|
| 40 | 200 | **799 301 490** | 4.200 |
| 160 | 630 | **799 301 496** | 14.100 |

| d (mm) | Description | Length (mm) | Width (mm) | Height (mm) |
|---|---|---|---|---|
| 40 | Scope of delivery: 2 x V-block, 2 x Straight bar, 1 x Universal link, Transport bag (600x380x250) | 900 | 290 | 230 |
| 160 | Scope of delivery: 2 x V-block, 2 x Straight bar, 1 x Universal link, Transport bag (780x780x580) | 1300 | 670 | 550 |



## Clamping tool
## Quadruple, multi size with universal link

- Recommended for the installation of fittings ELGEF Plus and ecoFIT d40 - 200 and d160 - 630mm
- Recommended for the installation of fittings COOL-FIT d32/D75 - d140/D200 and d160/D250 - d450/D630
- The clamping allows installation without tension and avoids movement during fusion and cooling time
- The centrally located adjustable universal link allows installation of electrofusion couplers, elbows and reducers
- Universal use; works above, below and alongside the joint
- Adaptor for use with Tee-pieces available (see accessories)

| d (mm) | d1 (mm) | Code | Weight (kg) | Description | L (mm) | W (mm) | H (mm) |
|---|---|---|---|---|---|---|---|
| 40 | 200 | **799 301 489** | 8.300 | Scope of delivery: 4 x V-block, 2 x Straight bar, 1 x Universal link | 900 | 290 | 230 |
| 160 | 630 | **799 301 495** | 23.300 | Scope of delivery: 4 x V-block, 2 x Straight bar, 1 x Universal link | 1300 | 670 | 550 |



## Tee adaptor

- Suitable for clamping tool (799301495)

| d (mm) | d1 (mm) | Code | Weight (kg) | Description | Length (mm) | Width (mm) | Height (mm) |
|---|---|---|---|---|---|---|---|
| 40 | 200 | **799 301 491** | 0.610 | Tee adaptor | 600 | 50 | 40 |
| 160 | 630 | **799 301 497** | 3.500 | Tee adaptor | 1070 | 75 | 60 |



## V-block

- Suitable for clamping tool (799301495)

| d (mm) | d1 (mm) | Code | Weight (kg) | Description | Length (mm) | Width (mm) | Height (mm) |
|---|---|---|---|---|---|---|---|
| 40 | 200 | **799 301 492** | 1.000 | V-block complete | 290 | 230 | 65 |
| 160 | 630 | **799 301 498** | 3.200 | V-block complete | 660 | 430 | 90 |



## Bar extension

- Suitable for clamping tool (799301495)

| d (mm) | d1 (mm) | Code | Weight (kg) | Description | L (mm) | W (mm) | H (mm) |
|---|---|---|---|---|---|---|---|
| 160 | 630 | **799 301 499** | 1.000 | Bar extension | 1000 | 40 | 40 |



## Clamping tool
## Double, multi size with link

- The Swivel Clamp centralises pipes with dimensions from d63 to 180 mm automatically. Suitable for coupler connections as well as reductions and bends. The 15° adjustment makes an exact positioning from 15° to 90° possible.

| d-d (mm) | Code | Weight (kg) | Length (mm) | Width (mm) | Height (mm) |
|---|---|---|---|---|---|
| 63 - 180 | **799 350 358** | 13.000 | 1500 | 370 | 390 |

# Toploads clamps



## ELGEF Plus Clamping device topload 400

- This clamp and mounting tool is used for top-load Saddles on pipes.
- Proper use: ELGEF Plus electrofusion saddles dimension d280-400mm with outlet d63mm
- Scope of delivery: 1 base mounting clamp, 1 bracket, 2 clamping screws, 2 ratchet straps, 1 transport box

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 280 - 400 | **799 350 475** | 20.000 |





## ELGEF Plus Clamping device topload 630

- This clamp and mounting tool is used for top-load Saddles on pipes.
- Proper use: ELGEF Plus electrofusion saddles dimension d280-400mm with outlet d63mm ELGEF Plus Branch fitting for dimension d280-630mm with outlet d90/110/125mm
- Scope of delivery: 1 base mounting clamp, 1 clamping attachment, 1 bracket, 2 clamping screws, 2 ratchet straps, 1 transport box

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 280 - 630 | **799 350 477** | 28.400 |

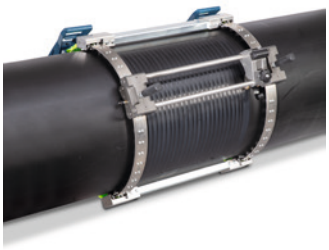


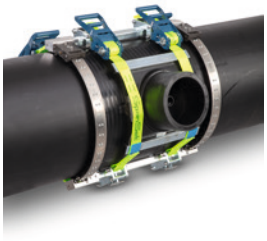
## ELGEF Plus Clamping attachment topload 630

- Clamping attachment as single part for extension of Topload tool 400 (799 350 475)
- Suitable for Branch fittings dimension d 280 mm – 630 mm

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 280 - 630 | **799 350 476** | 11.343 |

## ELGEF Plus Installation set topload TL 225

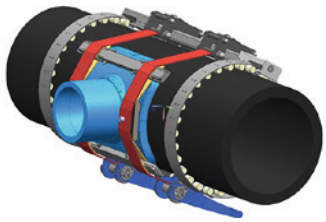


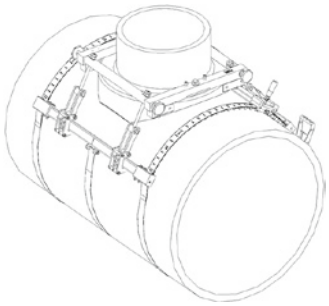


- Suitable for branch saddle d315-1000mm with spigot outlet d160/d225
- Use of set is mandatory for the installation of branch saddles
- Set includes frame with tension belts, peeling tool, clamp and transport box
- Patent pending

| Code | Weight (kg) |
|---|---|
| **799 300 807** | 48.000 |

## ELGEF Plus Installation set topload TL 500



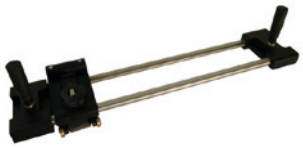


- Suitable for ELGEF Plus branch saddle d450-2000mm with spigot outlet d315 and d500
- Use of set is mandatory for the installation of branch saddles
- Set includes frame with tension belts, peeling tool, clamp for outlet d315mm/500mm and transport box
- Patent pending

| Code | Weight (kg) |
|---|---|
| **799 300 809** | 124.000 |









### Accessories / single parts for Installation set Topload

| Description | Code | Weight (kg) |
|---|---|---|
| Transport box TL 225 (860x700x180) | **799 300 923** | 18.500 |
| Frame TL 225 incl. tension belt up to 1000mm | **799 300 820** | 14.000 |
| Peeling tool TL 225 | **799 300 835** | 5.600 |
| Clamp TL 225 | **799 300 920** | 9.900 |
| Peel cutter TL | **799 300 831** | 0.066 |



### ELGEF Plus Multiple use assembly tool branch saddle PE100 d140mm

- Only to be used with Branch Saddle d140mm
- Delivered as complete Kit including screws and belt

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 140 | **193 281 027** | 0.724 |

# Cleaning and Accessories for job sites

## Cleaners and markers




### Tangit KS-Cleaning Tissues

- Special cleaner for plastic fusion connections in the material of PE, PP, PB, PVDF, ECTFE and PVC-U
- Suitable for Tangit Rapid. Must not be used for solvent cementing
- for plastic welding joints PB, PE, PP, PVDF
- DW 5290 BR 0464
- DVGW approved

| Contents | Code | Weight (kg) |
|---|---|---|
| 1 dispenser with 100 tissues | **799 298 024** | 0.333 |




## Tangit KS Cleaner

- Special cleaner for plastic fusion connections in the material of PE, PP, PB, PVDF, ECTFE and PVC-U
- Suitable for Tangit Rapid. Must not be used for solvent cementing
- DVGW approved
- DW 5290 BR 0464

| Size | Code | Weight (kg) |
|---|---|---|
| 1 liter | **799 298 023** | 0.872 |



## Degreasing Tissues

- For degreasing the PE pipe surface prior to fusion

| Description | Code | Weight (kg) |
|---|---|---|
| For pipes up to d225 mm | **799 496 011** | 0.008 |




## Marker

| Type | Code | Weight (kg) |
|---|---|---|
| silver | **799 350 364** | 0.010 |

# Support tools



## Chamfering tools

- Chamfering tool (15° bevel) for plastic pipes. Fast and reliable adjustment to the different pipe diameters and wall thickness.

| d-d (mm) | description | Code | Weight (kg) |
|---|---|---|---|
| 25 - 110 | Special version for INSTAFLEX PB | **790 309 005** | 1.100 |
| 25 - 110 | Standard version | **790 309 006** | 1.100 |
| 25 - 200 | Standard version | **790 309 003** | 1.300 |
| 63 - 400 | Standard version | **790 309 004** | 2.600 |



## Chamfering tools

- Chamfering tool (15° bevel) for plastic pipes. Fast and reliable adjustment to the different pipe diameters and wall thickness.

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 40 - 200 | **790 309 001** | 1.300 |
| 50 - 315 | **790 309 002** | 2.600 |



## Spare blades for chamfering tool

- 1 piece of each code mounted on every chamfering tool

| d-d (mm) | Description | Code | Weight (kg) |
|---|---|---|---|
| 25 - 400 | Spare blade | **790 309 015** | 0.010 |
| 25 - 400 | Counter blade | **790 309 016** | 0.012 |



## Outer bead remover

- Each outer bead remover size code is provided complete with the blade.
- Spare blade codes are also given below for replacement.
- 1 piece of each spare blade code is to be mounted on the correspondent outer bead remover tool size.

| d-d (mm) | Description | Code | Weight (kg) |
|---|---|---|---|
| 90 - 400 | Outer bead remover size 400 | **790 109 250** | 2.100 |
| 90 - 400 | Spare blade for outer bead remover size 400 | **790 109 251** | 0.200 |
| 355 - 630 | Outer bead remover size 630 | **790 109 252** | 3.600 |
| 355 - 630 | Spare blade for outer bead remover size 630 | **790 109 253** | 0.250 |
| 500 - 900 | Outer bead remover size 900 | **790 109 254** | 3.800 |
| 500 - 900 | Spare blade for outer bead remover size 900 | **790 109 255** | 0.300 |
| 710 - 1200 | Outer bead remover size 1200 | **790 109 256** | 5.000 |
| 710 - 1200 | Spare blade for outer bead remover size 1200 | **790 109 257** | 0.300 |

## Deburring tool




- Replacable blade

| Code | Weight (kg) |
|---|---|
| **790 205 082** | 0.058 |

## Spare blades for deburring tool




- 10 pieces

| Code | Weight (kg) |
|---|---|
| **790 205 083** | 0.031 |

## Chamfering / deburring tool




- 10 mm - 54 mm / 1/2" - 2"
- Inside and outside
- Ideal for adhesive jointing

| Code | Weight (kg) |
|---|---|
| **790 205 085** | 0.450 |

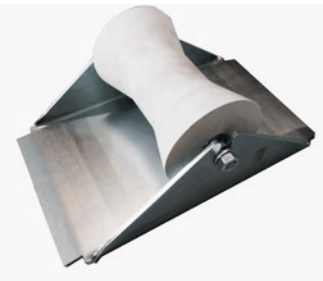
## Measuring tape (circumference and diameter)




- Circumference: 2 m / 79 inch
- Diameter: 630 mm / 25 inch

| Code | Weight (kg) |
|---|---|
| **790 205 087** | 0.045 |

## Roller support 315



- For pipes up to d 315 mm, with base plate, galvanised
- The piping can be pulled with little effort
- Protects pipes from damage
- Reduces resistance during fusion
- Maximum load 300 kg

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 20 - 315 | **790 109 110** | 5.950 |



### Roller support 630

- Up to d 630 mm, with base plate, galvanised
- **adjustable height** (60 mm)
- The piping can be pulled with little effort
- Protects pipes from damage
- Reduces resistance during fusion
- Maximum load 1000 kg

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 110 - 630 | **790 109 109** | 4.725 |

# Rerounding and Squeeze-off tools

## Rerounding tools



### Re-rounding tool 1
### Type nut cracker

- Re-rounding tools are used to re-round oval pipes during fusion as well as during the cooling time.

| d (mm) | Code | Weight (kg) | Description |
|---|---|---|---|
| 25 | **799 199 127** | 0.577 | Type nut cracker |
| 32 | **799 199 128** | 0.500 | Type nut cracker |
| 40 | **799 199 129** | 1.500 | Type nut cracker |
| 50 | **799 199 130** | 1.616 | Type nut cracker |



### Re-rounding tool 2
### Type hinged collar

- Re-rounding tools are used to re-round oval pipes during fusion as well as during the cooling time.

| d (mm) | Code | Weight (kg) | Description |
|---|---|---|---|
| 63 | **799 199 131** | 0.742 | Type hinged collar |
| 75 | **799 199 132** | 0.791 | Type hinged collar |



### Re-rounding tool 3
### Type hinged collar

- Re-rounding tools are used to re-round oval pipes during fusion as well as during the cooling time.

| d (mm) | Code | Weight (kg) | Description |
|---|---|---|---|
| 90 | **799 199 133** | 1.690 | Type hinged collar |
| 110 | **799 199 134** | 1.537 | Type hinged collar |
| 125 | **799 199 135** | 1.917 | Type hinged collar |
| 160 | **799 199 137** | 2.318 | Type hinged collar |
| 180 | **799 199 138** | 2.493 | Type hinged collar |



## Re-rounding tool 4
## Type split collar

- Re-rounding tools are used to re-round oval pipes during fusion as well as during the cooling time.

| d (mm) | Code | Weight (kg) | Description |
|---|---|---|---|
| 200 | **799 199 139** | 2.500 | Type split collar |
| 225 | **799 199 140** | 3.361 | Type split collar |
| 250 | **799 199 141** | 1.872 | Type split collar |



## Re-rounding tool
## Multi

- Enables mechanical re-rounding of out-of-roundness PE pipes for fusion preparation
- Recommended for installation of electrofusion couplers and electrofusion saddles
- We generally recommend the use of 2 re-rounding tools (1 x left and 1 x right of the installed fitting)
- Facilitates the installation and improves connection quality
- Pipe ovality before re-rounding max. 6% at +20°C (3% at ambient temperature of 0°C)
- Required ringspanner is not included in scope of delivery

[1] Material: Galvanized steel, Scope of delivery: 2 x Crossbar, 2 x Spindle, 2 x Nut AF 30, 2 x Spindle protection, Transport box

[2] Material: Aluminium, Scope of delivery: 2 x Crossbar, 2 x Spindle, 2 x Nut AF 55, 2 x Spindle protection

| | d (mm) | d1 (mm) | Code | Weight (kg) | L (mm) | B (mm) | H (mm) |
|---|---|---|---|---|---|---|---|
| 1 | 280 | 450 | **799 350 688** | 25.000 | 650 | 290 | 260 |
| 1 | 450 | 630 | **799 350 689** | 38.000 | 830 | 290 | 260 |
| 1 | 630 | 900 | **799 350 690** | 49.000 | 1100 | 290 | 260 |
| 2 | 900 | 1400 | **799 350 695** | 192.300 | 2000 | 650 | 600 |
| 2 | 1400 | 2000 | **799 350 696** | 254.200 | 2650 | 650 | 600 |



## Transport box for Re-rounding tool

- Suitable for Re-rounding tool (799350688 - 696)

| d (mm) | d1 (mm) | Code | Weight (kg) |
|---|---|---|---|
| 280 | 450 | **799 350 691** | 7.800 |
| 450 | 630 | **799 350 692** | 9.200 |
| 630 | 900 | **799 350 693** | 11.000 |
| 900 | 1400 | **799 350 697** | 40.000 |
| 1400 | 2000 | **799 350 698** | 50.000 |



## Crossbeam for Re-rounding tool

- Suitable for Re-rounding tool (799350688 - 696)

| d (mm) | d1 (mm) | Code | Weight (kg) |
|---|---|---|---|
| 280 | 450 | **799 350 706** | 9.500 |
| 450 | 630 | **799 350 707** | 15.700 |
| 630 | 900 | **799 350 708** | 19.800 |
| 900 | 1400 | **799 350 709** | 55.000 |
| 1400 | 2000 | **799 350 710** | 75.000 |



## Pipe gauge

- Pipe gauge enables check of pipe ovality on existing pipelines
- Applicable on any user-defined spot within the pipeline
- Strongly recommended for all installations of brach saddles on pipes d315mm and above (193135402-748)
- Plug gauge (799350659) for exact measuring of out-of roundness deviations is not included in scope of delivery
- Material: aluminium

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 315 | **799 350 660** | 0.271 |
| 355 | **799 350 661** | 0.255 |
| 400 | **799 350 662** | 0.257 |
| 450 | **799 350 663** | 0.245 |
| 500 | **799 350 664** | 0.334 |
| 560 | **799 350 665** | 0.324 |
| 630 | **799 350 666** | 0.319 |
| 710 | **799 350 667** | 0.310 |
| 800 | **799 350 668** | 0.311 |
| 900 | **799 350 669** | 0.425 |
| 1000 | **799 350 670** | 0.420 |
| 1200 | **799 350 671** | 0.413 |
| 1400 | **799 350 672** | 0.410 |
| 1600 | **799 350 673** | 0.407 |
| 2000 | **799 350 674** | 0.403 |




## Pipe gauge set

- Pipe gauge set enables check of pipe ovality on existing pipelines
- Applicable on any user-defined spot within the pipeline
- Strongly recommended for all installations of brach saddles on pipes d315mm and above (193135402-748)
- Scope of delivery: Pipe gauges of listed dimension range; plug gauge (799350659) for exact measuring of out-of roundness deviations
- Each with 1 pipe gauge per main dimension
- Material: aluminium

| d (mm) | d1 (mm) | Code | Weight (kg) | Description |
|---|---|---|---|---|
| 315 | 2000 | **799 350 685** | 12.200 | Pipe gauge set complete; 15 pipe gauges, 1 plug gauge, 1 transport box |



## Single parts for pipe gauge

- Suitable for pipe gauge (799350660 - 685)

| d (mm) | d1 (mm) | Code | Weight (kg) | Description |
|---|---|---|---|---|
| 315 | 2000 | **799 350 659** | 0.112 | For exact measuring of out-of roundness deviations |
| | | **799 350 686** | 7.000 | Empty transport box for all pipe gauge set (1+2+3+4) |

# Squeeze-off tools



## Squeeze-off tool type S1

- This mechanical device is used to squeeze-off PE pipes during repair and extension work. In order not to over-stress the pipe, the tool is equipped with adjustable end stops for SDR 11 (ISO S5) pipes. Due to different wall thickness` of the pipes, the squeezing degree may differ up to 0,8.

| d-d (mm) | Code | Weight (kg) | Description |
|---|---|---|---|
| 20 - 63 | **799 350 107** | 4.901 | S1 for PE pipes SDR 11 |



## Squeeze-off tool type A25

- This mechanical device is used to squeeze off PE pipes during repair and extension work. In order not to over-stress the pipe, the tool is equipped with adjustable end stops for SDR 11 (ISO S5) and SDR 17 (ISO S8) pipes.

| d-d (mm) | Code | Weight (kg) | Description |
|---|---|---|---|
| 160 - 250 | **799 350 270** | 60.000 | A25 for PE pipes SDR 11 and SDR 17; Jack Force: 25 t |

Utility Range

# Cutting Tools

## Product Range Overview








| Working range (mm) | Plastic Pipe Cutter | RPC 63-200 | RPC 90-315 | Plastic Pipe Cutter KS 355 | Plastic Pipe Cutter PEcut 1200 |
|---|---|---|---|---|---|
| 6 | | | | | |
| 10 | | | | | |
| 16 | | | | | |
| 20 | | | | | |
| 25 | | | | | |
| 32 | | | | | |
| 40 | | | | | |
| 50 | | | | | |
| 63 | | | | | |
| 75 | | | | | |
| 90 | | | | | |
| 110 | | | | | |
| 125 | | | | | |
| 140 | | | | | |
| 160 | | | | | |
| 180 | | | | | |
| 200 | | | | | |
| 225 | | | | | |
| 250 | | | | | |
| 280 | | | | | |
| 315 | | | | | |
| 355 | | | | | |
| 400 | | | | | |
| 450 | | | | | |
| 500 | | | | | |
| 560 | | | | | |
| 630 | | | | | |
| 710 | | | | | |
| 800 | | | | | |
| 900 | | | | | |
| 1000 | | | | | |
| 1200 | | | | | |
| 1400 | | | | | |
| 1600 | | | | | |
| 1800 | | | | | |
| 2000 | | | | | |

| Table of contents | | Page |
|---|---|---|
|  | Manual cutting tools | 628 |
|  | Electric cutting tools | 629 |

## PPC Plastic pipe cutter







**Model:**

- For cutting of plastic pipes d6 - d160
- Suitable for all GF plastic types PE, PVC-U, PVC-C, ABS, PP, PVDF, ECTFE
- Removable deburring tool integrated

**Note:**

* Additional spare cutting wheel included in the handle

| | d (mm) | Article | Code | Weight (kg) | Closest inch (inch) |
|---|---|---|---|---|---|
| * | 6 - 63 | Plastic Pipe cutter (s max. 7.00mm) | **790 109 094** | 0.785 | ⅛ - 2 |
| | 50 - 125 | Plastic Pipe cutter (s max. 16.00mm) | **790 109 095** | 1.875 | 1 ½ - 4 |
| | 110 - 160 | Plastic Pipe cutter (s max. 16.00mm) | **790 109 096** | 2.255 | 4 - 6 |
| | 6 - 63 | Spare cutting wheel d6-63mm (3 Pcs./Pu.) | **790 109 097** | 0.010 | |
| | 50-125 / 110-160 | Spare cutting wheel d50-125mm / d110-160mm (2 Pcs./Pu.) | **790 109 098** | 0.030 | |

## Rotary Pipe Cutter d63-200 mm / d90-315 mm



- Tool for simple right-angle precision cutting of plastic pipe with a wall thickness PVDF/PVC up to 12 mm (up to 15mm with bigger cutter 790109851) and for PP/PE up to 20 mm (up to 30 mm with bigger cutter 790109851) --> blade for PP/PE must be ordered separately Code 790109861
- Including transport box

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 63 - 200 | **790 109 850** | 7.000 |
| 90 - 315 | **790 109 851** | 5.000 |

## Knife for Rotary Pipe Cutter d63-200 and d90-315 for PP/PE pipe



| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 63 - 315 | **790 109 861** | 0.050 |

# Electric cutting tools



## KS 355 Plastic pipe cutter

- The KS 355 is the ideal tool for right-angled cuts with no misalignment of PE, PP and PVC pipes
- Pipe outer dimension from 160 – 355 mm, wall-thickness from 8 – 40 mm
- Unique clamping mechanism, no additional tools like belts, chains or reduction inserts necessary
- Weight of the saw: 13,0 kg
- Supplied with transport box: Dimension 700 x 350 x 500 mm; Weight 17,0 kg

| d-d (mm) | Code | Weight (kg) | Power |
|---|---|---|---|
| 160 - 355 | **790 202 001** | 15.400 | 1750 W; 230 V; 50/60 Hz |



## Replacement saw blade Ø 180x30 for KS 355

| Code | Weight (kg) |
|---|---|
| **790 202 011** | 0.354 |




## Plastic pipe cutter PEcut 1200

- **Plastic pipe cutter for precise and safe cutting of plastic pipes**
- Battery powered, oil-free chain saw with unique clamping and guiding mechanism
- Large application range from d250 - 1200mm, 10" - 46"
- Large application range COOL-FIT 160/250mm (d/D) - 450/630mm (d/D)
- Applicable for pipe wall thickness from 10 - 180mm
- Recommended for solid wall PE pipes and pre-insulated COOL-FIT pipes
- Recommended on pipe material: PE 100, PE 100-RC, PP
- Minimum axial space requirement = 37 cm
- Minimum radial space requirement = 35 cm
- **Scope of delivery:**
- Please observe the description to select the country-specific variant
- Battery powerded cordless chain saw
- Support wagon
- 3 x Roller wagon, 2 x Tensioning belt with roll-on system, 2 x Quick link
- 2 x Battery pack CAS 5.5Ah, 1 x Charger LG 12/18 V
- Delivery in solid transport case (L x B x H = 665 x 562 x 250 mm)

| d (mm) | d1 (mm) | Code | Weight (kg) | Description | L (mm) | B (mm) | H (mm) |
|---|---|---|---|---|---|---|---|
| 250 | 1200 | **799 198 150** | 19.70 | PEcut 1200-230V, Charger LG12/18V | 665 | 562 | 250 |
| 250 | 1200 | **799 198 151** | 19.70 | PEcut 1200-115V US, Charger LG12/18V US | 665 | 562 | 250 |
| 250 | 1200 | **799 198 152** | 19.70 | PEcut 1200-230V UK, Charger LG12/18V UK | 665 | 562 | 250 |



## Accessories Plastic pipe cutter PEcut 1200

- Extension kit d1400-2000mm, 48" - 80"
- **Scope of delivery:**
- 3 x Roller wagon, 1 x Tensioning belt, 3 x Quick link, 1 x Transport case small

| d (mm) | d1 (mm) | Code | Weight (kg) | Description | L (mm) | B (mm) | H (mm) |
|---|---|---|---|---|---|---|---|
| 1400 | 2000 | **799 198 155** | 10.50 | Extension set PEcut 1200 | 500 | 420 | 225 |



### Transport case PEcut 1200

- Spare and wear parts Plastic pipe cutter PEcut 1200

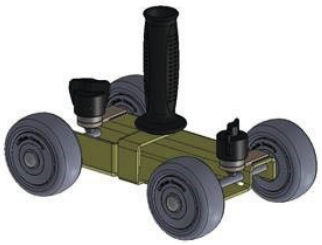
| Code | Weight (kg) | L (mm) | B (mm) | H (mm) |
|---|---|---|---|---|
| **799 198 153** | 5.20 | 665 | 562 | 250 |



### Tensioning belt B=25mm L=3.5m

- Spare and wear parts Plastic pipe cutter PEcut 1200

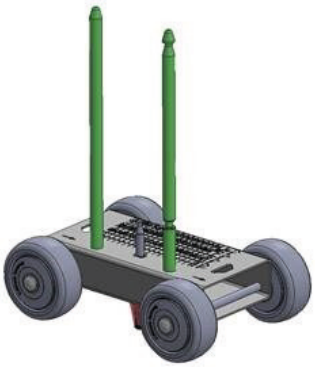
| Code | Weight (kg) | L (mm) | B (mm) | H (mm) |
|---|---|---|---|---|
| **799 198 154** | 0.75 | 150 | 70 | 80 |



### Roller wagon

- Spare and wear parts Plastic pipe cutter PEcut 1200

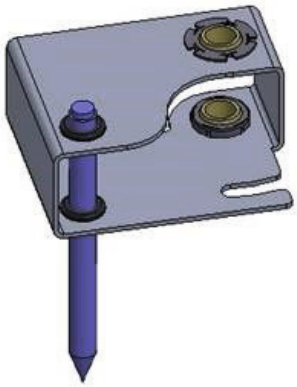
| Code | Weight (kg) | L (mm) | B (mm) | H (mm) |
|---|---|---|---|---|
| **799 198 156** | 1.90 | 260 | 180 | 200 |



### Support wagon

- Spare and wear parts Plastic pipe cutter PEcut 1200

| Code | Weight (kg) | L (mm) | B (mm) | H (mm) |
|---|---|---|---|---|
| **799 198 157** | 2.10 | 260 | 180 | 320 |



### Marker holder complete

- Spare and wear parts Plastic pipe cutter PEcut 1200

| Code | Weight (kg) | L (mm) | B (mm) | H (mm) |
|---|---|---|---|---|
| **799 198 158** | 0.25 | 80 | 100 | 45 |



### Hexagon spanner 13mm L152mm

- Spare and wear parts Plastic pipe cutter PEcut 1200

| Code | Weight (kg) | L (mm) | B (mm) | H (mm) |
|---|---|---|---|---|
| **799 198 159** | 0.20 | 160 | 40 | 20 |



### Charger LG 12 / 18 V

- Spare and wear parts Plastic pipe cutter PEcut 1200

| Code | Weight (kg) | L (mm) | B (mm) | H (mm) |
|---|---|---|---|---|
| **799 198 160** | 0.60 | 150 | 140 | 80 |



### Charger LG 12 / 18V US

- Spare and wear parts Plastic pipe cutter PEcut 1200

| Code | Weight (kg) | L (mm) | B (mm) | H (mm) |
|---|---|---|---|---|
| **799 198 161** | 0.60 | 150 | 140 | 80 |



### Charger LG 12 / 18V UK

- Spare and wear parts Plastic pipe cutter PEcut 1200

| Code | Weight (kg) | L (mm) | B (mm) | H (mm) |
|---|---|---|---|---|
| **799 198 162** | 0.60 | 150 | 140 | 80 |



### Battery pack CAS 5.5 Ah / 18V

- Spare and wear parts Plastic pipe cutter PEcut 1200

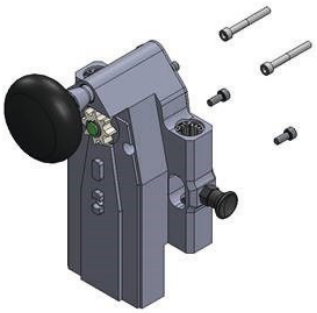
| Code | Weight (kg) | L (mm) | B (mm) | H (mm) |
|---|---|---|---|---|
| **799 198 163** | 1.00 | 125 | 85 | 75 |



### Saw chain complete set

- Spare and wear parts Plastic pipe cutter PEcut 1200

| Code | Weight (kg) | L (mm) | B (mm) | H (mm) |
|---|---|---|---|---|
| **799 198 166** | 0.70 | 300 | 75 | 25 |



### Gearbox

- Spare and wear parts Plastic pipe cutter PEcut 1200

| Code | Weight (kg) | L (mm) | B (mm) | H (mm) |
|---|---|---|---|---|
| **799 198 167** | 1.30 | 190 | 150 | 140 |



### Electric drive complete

- Spare and wear parts Plastic pipe cutter PEcut 1200

| Code | Weight (kg) | L (mm) | B (mm) | H (mm) |
|---|---|---|---|---|
| **799 198 168** | 1.30 | 150 | 75 | 230 |

# Tapping and Pressure testing tools

## Tapping tools



### ELGEF Plus Tapping and assembly key For electrofusion saddle

- Combination tool for tapping and tightening of fixation screws.

| Type | Code | Weight (kg) | Description |
|---|---|---|---|
| 8/10/17 | **799 198 047** | 0.798 | For all saddles |



### ELGEF Plus Tapping key For electrofusion saddle

- With adjustable tapping depth.

| Suitable for | Description | Code | Weight (kg) |
|---|---|---|---|
| Monobloc d63, d90-160 and all Duobloc saddles | Type WS - 17 | **799 198 079** | 0.556 |



### ELGEF Plus Tapping key For electrofusion saddle

| Suitable for | Description | Code | Weight (kg) |
|---|---|---|---|
| Monobloc d40 and d50 | Type WS - 10 | **799 198 080** | 0.114 |



## ELGEF Plus Tapping key
## For electrofusion saddle

| Suitable for | Description | Code | Weight (kg) |
|---|---|---|---|
| Spigot saddle with cutter | Type WS - 12.7 | **799 198 091** | 0.600 |



## ELGEF Plus Tapping key
## With integrated sealing cap

- The Adapter is used for gas-free tapping under pressure. Type S 54 for tapping saddles with rotatable outlet d 20 - 40 mm (Tapping Tee d 32 mm). Type S 67 for tapping saddles with rotatable outlet d 50 - 63 mm (Tapping Tee d 63 mm).

| Suitable for | Description | Code | Weight (kg) |
|---|---|---|---|
| Tapping Tee d32 | Type S 54 | **799 100 061** | 0.785 |
| Tapping Tee d63 | Type S 67 | **799 100 062** | 1.011 |



## ELGEF Plus Assembly key
## For electrofusion saddle

- For tightening fixation screws.

| Type | Code | Weight (kg) | Description |
|---|---|---|---|
| SW8 | **799 150 378** | 0.129 | For all saddles and branch fittings |



## Tapping key
## For PVC saddle

- The Hexagon Key is suitable for tapping water and gas mains under pressure.
- Scope of delivery: 1 hexagon key, protective cover, without rotating pin.

| d-d (mm) | Code | Weight (kg) | s (mm) | G (inch) |
|---|---|---|---|---|
| 32 - 40 | **799 150 008** | 0.496 | 27 | 38 |
| 50 - 63 | **799 150 009** | 0.690 | 27 | 47 |



## Plastic pipe cutter
## For PE pipes

- This cutter is suitable for PE pipes and can be used on pipes of up to d 225 mm with a wall thickness of up to 21 mm.

| d (mm) | Code | Weight (kg) | Description |
|---|---|---|---|
| 39 | **799 198 012** | 0.215 | accessories Basic Tool Box |



## PE repair plug

- PE Repair Plugs are suitable for use with ELGEF Plus Repair Saddles

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 39 | **799 199 089** | 0.019 |




### Plastic pipe cutter
### Core cuttter set for PE pipes

- Suitable for drilling of pressureless PE pipes
- Set includes core cutter, centre drill, adapter SDS max, ejector rod and transport box
- Suitable for branch saddle with spigot outlet (193135202 - 748)
- Enables quick drilling
- Cutout stays in the core cutter

**Technical information: Core cutter:** L = 300 mm; d= spigot outlet fitting in mm; d1= spot boring diameter in mm; Max. wall thickness = 120 mm, **Pilot drill:** d = 14mm; L = 400 mm, **Ejector rod:** d = 12mm; L = 500 mm, **Connection drill machine:** SDS max, **Connection core cutter:** G 1/2" (female thread) d160, 225, 315; G 1 1/4" (female thread) d500, **Machine suggestion:** Effective power minimum 100 watt; Rotation speed 100-200 rpm

| d (mm) | d1 (mm) | Code | Weight (kg) | Description |
|---|---|---|---|---|
| 160 | 123 | **799 198 101** | 7.200 | Core cutter set in transport box |
| 225 | 172 | **799 198 102** | 10.000 | Core cutter set in transport box |
| 315 | 238 | **799 198 103** | 13.400 | Core cutter set in transport box |
| 500 | 420 | **799 198 104** | 34.000 | Core cutter set in transport box |




### Transport box for Core cutter set

- Suitable for core cutter set (799198101 - 104)

| d (mm) | Description | Code | Weight (kg) |
|---|---|---|---|
| 160 | Transport box 160; 565x170x180mm | **799 198 121** | 3.900 |
| 225 | Transport box 225; 565x220x230mm | **799 198 122** | 4.700 |
| 315 | Transport box 315; 280x280x565mm | **799 198 123** | 7.500 |
| 500 | Transport box 500; 465x465x565mm | **799 198 124** | 9.000 |



### Plastic pipe cutter
### Drill stand for core cuttter set

- Suitable for safe and guided drilling of pressureless PE pipes
- Set includes drill stand, drilling machine, extension arm and standtracks
- Suitable for branch saddle with spigot outlet (193135402 - 748)
- Suitable for core cutter set (799198101 - 104)
- Tension belts for the fixation of the drill stand onto the PE pipe are not included in scope of delivery
- Use of Core cutters 160/225/315 requires additionaly adaptor 1 1/4" - 1/2" (799198138)
- In case of using the pilot drill for core cutters 160/225/315 adaptor 1/2"M - 1/2" F (799198106) is required

| Description | Code | Weight (kg) |
|---|---|---|
| Drill stand BS400 with vulcanised-rubber bonded standtracks. Extension arm suitable for branch saddle 4-drift drill machine D38-BB | **799 198 137** | 68.000 |



## Accessories for Core cutter set

- Suitable for core cutter set (799198101 - 104)

| Description | Code | Weight (kg) |
|---|---|---|
| Pilot drill d = 14mm; L = 365 mm | **799 198 133** | 0.300 |
| Ejector rod d = 12mm; L = 500 mm | **799 198 131** | 0.450 |
| Adaptor 1 ¼" UNC-R- ½" | **799 198 138** | 0.520 |
| Adaptor drill chuck 13 | **799 198 105** | 0.160 |
| Adaptor thread | **799 198 106** | 0.180 |
| Adaptor SDS-max | **799 198 107** | 0.300 |

# W410 drilling device (3/4" - 8")



## Basic Drilling Device W410 including ratchet /(all accessories to be added)

**Model:**

- Including: hex key 3 mm, hex key 6 mm and screwdriver

| Description | Code | Weight (kg) |
|---|---|---|
| basic device including ratchet | **709 700 100** | 7.800 |

---



## Drill shafts

**Model:**

- Drill shafts to be selected depending on build up length of your configuration

| Description | Code | Weight (kg) |
|---|---|---|
| drill shaft 620 mm | **709 700 010** | 1.200 |
| drill shaft 775 mm | **709 700 021** | 1.500 |
| drill shaft 1070 mm | **709 700 023** | 2.070 |

---



## Flange adaptors

**Model:**

- Suitable for flange to flange connections
- Not included flange bolts / gasket
- Flange adaptor for W410
- Suitable for MULTI/JOINT® flange adaptor / connection to PE spigot

| Description | Drilling pattern | Code | Weight (kg) |
|---|---|---|---|
| flange adaptor DN50 | PN16 | **709 702 045** | 1.850 |
| flange adaptor DN65 | PN16 | **709 702 046** | 2.250 |
| flange adaptor DN80 | PN16 | **709 702 047** | 3.090 |
| flange adaptor DN100 | PN16 | **709 702 048** | 3.840 |
| flange adaptor DN150 | PN16 | **709 702 050** | 6.530 |
| flange adaptor DN200 | PN10 | **709 702 051** | 8.800 |

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## Cup drill PE chipless Ø45, Ø60, Ø63, Ø80 and Ø84 mm

**Model:**

- Maximum PE pipe d630 SDR11
- Suitable for under pressure drilling
- Push rod for coupon release out of the cup drill
- For demanding drillings on PE

| Description | Code | Weight (kg) |
|---|---|---|
| PE cup drill chipless 45 mm x 60 mm | **709 810 410** | 0.510 |
| PE cup drill chipless 60 mm x 60 mm | **709 810 412** | 0.580 |
| PE cup drill chipless 63 mm x 60 mm | **709 810 414** | 0.590 |
| PE cup drill chipless 80 mm x 60 mm | **709 810 415** | 0.880 |
| PE cup drill chipless 84 mm x 60 mm | **709 810 416** | 0.910 |
| PE cup drill chipless 45 mm x 120 mm | **709 810 420** | 0.800 |
| PE cup drill chipless 60 mm x 120 mm | **709 810 422** | 0.890 |

table continued on the next page

| Description | Code | Weight (kg) |
|---|---|---|
| PE cup drill chipless 63 mm x 120 mm | **709 810 424** | 0.890 |
| PE cup drill chipless 80 mm x 120 mm | **709 810 425** | 1.340 |
| PE cup drill chipless 84 mm x 120 mm | **709 810 426** | 1.370 |
| PE cup drill push rod | **709 700 024** | 0.400 |




## Heavy duty transport / storage box for W410 drilling device

**Model:**

- Outside dimension transport / warehouse box: 120 x 40 x 40 cm

| Description | Code | Weight (kg) |
|---|---|---|
| Heavy duty transport / storage box for W410 drilling device | **709 706 414** | 15.500 |



## ELGEF Plus Pressure test cap
## For electrofusion saddle

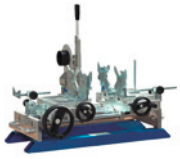
- Connecting thread for pressure test is female thread G 3/8"
- **Overview of Tapping Adapter types and Pressure Test Cap**
- M For Monobloc d40 and d50 (outlets d20 - d32)
- S 54 For all saddles with rotatable outlet (outlets d20 - d40) i.e. Tapping Tee d20 - d40.
- S 67 For all saddles with rotatable outlet (outlets d50 and d63) i.e. Tapping Tee d63.
- Y for Y-Tapping Saddle d180 to d315

| Suitable for | Description | Code | Weight (kg) |
|---|---|---|---|
| Monobloc d40 and d50 | Type M | **799 199 282** | 0.116 |
| Tapping Tee d20 to d40 | Type S 54 | **799 199 283** | 0.260 |
| Tapping Tee outlet d63 | Type S 67 | **799 199 286** | 0.430 |
| Monobloc d63 to d160 and Branch saddle outlet d160/225 | Type MB | **799 199 287** | 0.037 |
| Y-Tapping Saddle d180 to d315 | Type Y | **799 199 290** | 0.037 |

Industry Range

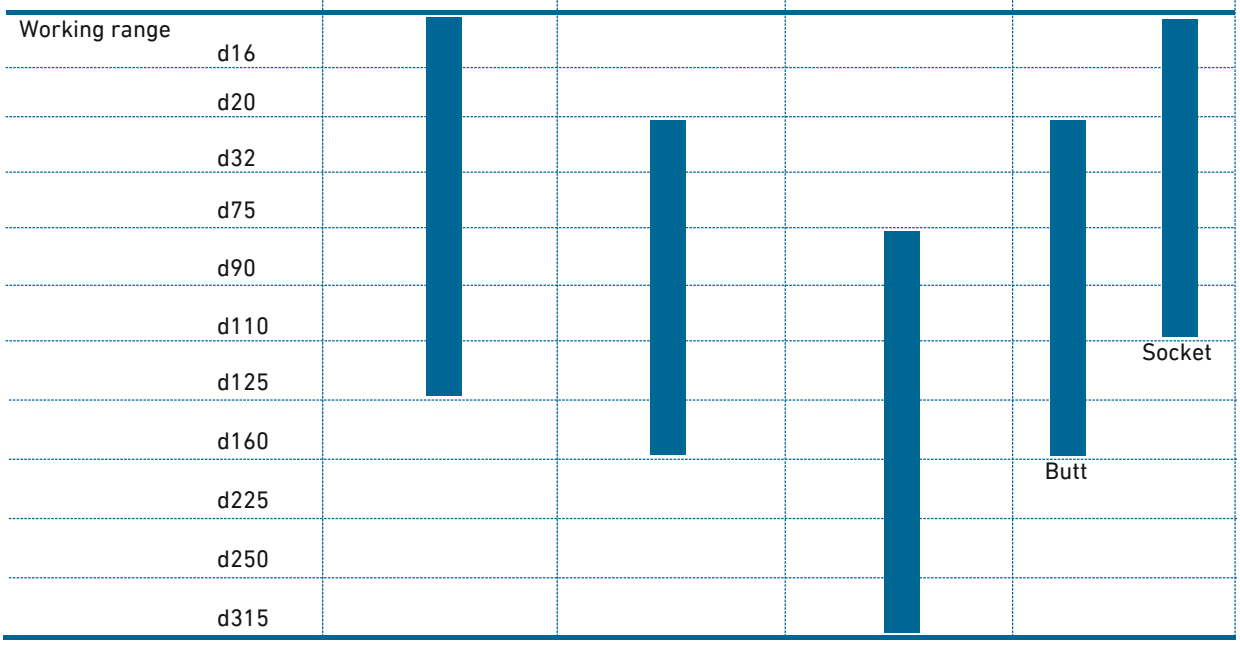
# Butt/socket fusion machines

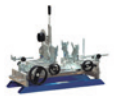
## Product Range Overview






| Characteristics | SG 125 | IM 160 | IM 315 | SG 160 |
|---|---|---|---|---|
| Max jointing diameter (mm) | 125 | 160 | 315 | 160 |
| SDR Range | - | 41-11 | 41-11 | 41-11 |
| Jointing technology | Socket | Butt | Butt | Butt-Socket |
| Jonting materia | PE, PP, PVDF | PE, PP, PB, PVDF | PE, PP, PB, PVDF | PE, PP, PB, PVDF |
| Working range (°C) | -10/+45 | -10/+45 | -10/+45 | -10/+45 |
| Input voltage (Vac) | 230/115 | 230/115 | 230/115 | 230/115 |
| Performance (W) | 1500 | 1700 | 2300 | 2200 |
| Segmented fitting fabrication | | | ✓ | |
| Digital force measurement | | | Optional | |
| Back stop | ✓ | ✓ | ✓ | ✓ |
| Transport box | ✓ | ✓ | ✓ | ✓ |
| Weight - without box (kg) | 52 | 55 | 169 | 53-59 |



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|  | SG 125 | 640 |
|  | SG 125 Accessories | 640 |
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|  | IM 160 Accessories | 643 |
|  | IM 315 | 644 |

# SG 125

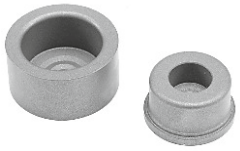


### SG 125
### Socket fusion machine

- Portable heating element - socket fusion machine for use in the workshop and on job sites.
- For fusion jointing of PP and PE pipes and fittings
- **BASE MACHINE**
- Compact, sturdy design, distortion-free machine bed
- Handwheel with torque locking mechanism for the slide movement
- Fast selection of insertion depth according to the pipe dimension
- **HEATER**
- With electronic temperature control
- High temperature accuracy over the entire heating surface
- **ADDITIONAL STANDARD EQUIPMENT**
- Universal, left and right prismatic clamping devices, complete, for clamping pipe and fittings. Additional set of prismatic clamping devices for outer clamping of pipes available as an option.
- V-shaped pipe support
- Back stop
- Machine specific tool set
- Timer to clock fusion times
- Including transport packaging, without accessories

| d-d (mm) | Performance | Code | Weight (kg) |
|---|---|---|---|
| 16 - 125 | 230 V/1500 W | **790 310 034** | 65.000 |
| 16 - 125 | 115 V/1500 W | **790 310 036** | 65.000 |

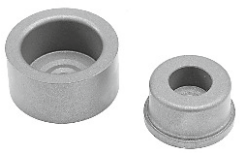
# SG 125 Accessories



### Heating spigots and bushes

- For socket fusion systems in PP, PE
- For specific PVDF socket fusion jointing
- Always delivered in pairs (also usable for SG 110, SG 125, not for SG 160)
- Type B according to DVS 2208-1 (mechanical calibrated pipe ends)

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 16 | **799 300 155** | 0.085 |
| 20 | **799 300 156** | 0.090 |
| 25 | **799 300 157** | 0.154 |
| 32 | **799 300 158** | 0.211 |
| 40 | **799 300 159** | 0.309 |
| 50 | **799 300 160** | 0.434 |
| 63 | **799 300 161** | 0.594 |
| 75 | **799 300 162** | 0.981 |
| 90 | **799 300 163** | 1.452 |
| 110 | **799 300 164** | 2.008 |
| 125 | **799 300 165** | 2.200 |



### Set heating spigots and bushes Type B

- For socket fusion systems in PP, PE
- For specific PVDF socket fusion jointing
- Always delivered in pairs (also usable for SG 110, SG 125, not for SG 160)
- Type B according to DVS 2208-1 (mechanical calibrated pipe ends)

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 16 - 125 | **790 310 023** | 8.700 |



## Tempil stick

| Temperature (°C) | Code | Weight (kg) |
|---|---|---|
| 253 | **799 496 008** | 0.169 |
| 274 | **799 496 009** | 0.013 |



## Manual pipe peeling and chamfering tools

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 20 | **799 300 260** | 0.087 |
| 25 | **799 300 270** | 0.080 |
| 32 | **799 300 280** | 0.099 |
| 40 | **799 300 290** | 0.240 |
| 50 | **799 300 300** | 0.244 |
| 63 | **799 300 310** | 0.507 |
| 75 | **799 300 320** | 0.680 |
| 90 | **799 300 330** | 1.006 |
| 110 | **799 300 340** | 1.355 |



## Spare blades for calibration tools
## Peeling tool blade

- 3 pieces are required per dimension

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 20 | **799 300 266** | 0.013 |
| 25 | **799 300 276** | 0.015 |
| 32 | **799 300 286** | 0.005 |
| 40 | **799 300 296** | 0.018 |
| 50 | **799 300 306** | 0.019 |
| 63 | **799 300 316** | 0.024 |
| 75 | **799 300 326** | 0.028 |
| 90 | **799 300 336** | 0.041 |
| 110 | **799 300 346** | 0.043 |



## Spare konus handle for calibration tools

| d-d (mm) | Article | Code | Weight (kg) |
|---|---|---|---|
| 45 - 50 | M6 | **799 300 295** | 0.021 |




## IM 160
### Butt fusion machine for industrial applications

- Butt fusion machine for PP, PE, PB and PVDF pipes and fittings for industrial applications with pressure piping systems.
- Compact and sturdy design for use in the workshop and on jobsites.
- Designed to provide the highest flexibility to adapt to different sizes or shapes of fittings.
- Dimensional range: d32 - 160 mm, from SDR 41 up to SDR 11 with PE, PP d160 mm.
- **BASE MACHINE**
- High precision, distortion-free and robust machine base
- Handwheel for easy moving of machine carriage
- Exact pressure adjustment via direct spring load transfer
- Fast-locking base clamping plates, right and left, d 160 mm
- Weight (including planer and heater): 53 kg
- **PLANER**
- Load transfer via robust chain drive
- Optimized cutting geometry for even and chatter-free planing
- Swivel mounted for ergonomic handling
- Mechanical stop to provide single sided planing and defined facing depth
- **HEATER**
- High performance, electronically controlled heating element
- High accuracy of +/- 4°C over the entire heating surface
- High quality, non-stick PTFE coating
- Metal sheet cover to protect the heating plate in idle position
- The heating element can be used as manual fusion tool
- **ADDITIONAL STANDARD EQUIPMENT**
- Complete reduction clamping inserts set d 32 - 140 mm
- V-shaped pipe support with inserts d 32 - 140 mm
- Timer to clock fusion times
- Machine specific tool set
- Wooden transport crate, usable as working bench, also available as special version made of coated plywood with aluminium profiles, optmized design for pallet truck handling and storage drawer for reduction inserts and tools

| d-d (mm) | Performance | Description | Code | Weight (kg) |
|---|---|---|---|---|
| 32 - 160 | 230 V/1700 W | Standard transport crate | **790 141 001** | 123.000 |
| 32 - 160 | 230 V/1700 W | Special transport crate | **790 141 003** | 157.000 |
| 32 - 160 | 230 V/1700 W | Standard transport crate, Swiss plug | **790 141 011** | 123.000 |
| 32 - 160 | 230 V/1700 W | Special transport crate, Swiss plug | **790 141 012** | 157.000 |
| 32 - 160 | 115 V/1700 W | Special transport crate | **790 141 009** | 157.000 |
| 32 - 160 | 115 V/1700 W | Standard transport crate | **790 141 008** | 123.000 |

# IM 160 Accessories



## Back-stop

- Prevents the components from slipping out of the clamping device during fusion.

| Code | Weight (kg) |
|---|---|
| **790 141 061** | 1.919 |



## Special transport crate

- Optimized design for pallet truck handling, with storage drawer for reduction inserts and tools

| Code | Weight (kg) |
|---|---|
| **790 141 065** | 93.000 |



## Set of replacement blades for planer

- Blade has 2 cutting edges (1 set = 2 blades)

| Code | Weight (kg) |
|---|---|
| **790 113 056** | 0.059 |



## Outer base clamping devices

| d (mm) | Type | Code | Weight (kg) |
|---|---|---|---|
| 160 | L | **790 141 066** | 3.500 |
| 160 | R | **790 141 067** | 3.500 |



## Reduction clamping inserts set

- Dedicated to a single clamping device: 2 clamping inserts of each dimension.

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 32 - 140 | **790 141 068** | 5.800 |



## IM 315
## Butt fusion machine for industrial applications

- Butt fusion machine for PP, PE, PB and PVDF pipes and fittings for industrial applications with pressure piping systems.
- Extremely sturdy design for use in the workshop and on job sites.
- Designed to provide the highest flexibility to adapt to different sizes or shapes of fittings.
- Angular jointing provided up to 30° (2x15°) for prefabrication of segmented fittings.
- Dimensional range for straight jointing: d90-315 mm, from SDR 41 up to SDR 11 with PE,PP d315 mm. Limitations in the dimensional range are to be considered for angular jointing, depending on the angle (refer to user's manual).
- **BASE MACHINE**
- High precision, distortion-free and robust machine base
- Integrated swivel tables for angular jointing up to 30° (2x15°)
- Handwheel for easy moving of machine carriage
- Exact pressure adjustment via direct spring load transfer
- Fusion pressure is maintained with a user friendly fast-locking handle
- Inner left and right clamping elements, for picking up reduction clamping inserts d 90-315 mm, with fast-locking handle
- Optional outer, horizontally removable clamping devices available
- Weight (including planer and heater): 169 kg
- **PLANER**
- Optimized cutting geometry for even and chatter-free planing
- Swivel mounted for ergonomic handling
- Mechanical stop to provide single sided planing and defined facing depth
- Integrated safety switch to prevent unintentional start-up
- Self-locking mechanism in working position
- **HEATER**
- High-performance and precision heater with electronic temperature control (2500W)
- High accuracy of +/- 4°C over the entire heating surface
- High quality, non-stick PTFE coating
- Pull-off mechanism to automatically detach the heating plate from pipe ends
- Metal sheet cover to protect the heating plate in idle position
- Integrated thermometer for fast visual check of plate temperature
- **ADDITIONAL STANDARD EQUIPMENT**
- Reduction clamping inserts set d 90-315 mm
- Pipe supports for picking up reduction supporting inserts d 90-315 mm
- Reduction pipe supporting inserts set d 90-315 mm
- Timer to clock fusion times
- Machine specific tool set

| d-d (mm) | Performance | Description | Code | Weight (kg) |
|---|---|---|---|---|
| 90 - 315 | 230 V / 3500 W | Without transport crate | **790 143 005** | 229.000 |
| 90 - 315 | 230 V / 3500 W | With standard transport crate | **790 143 001** | 269.000 |
| 90 - 315 | 230 V / 3500 W | With special transport crate | **790 143 003** | 366.000 |
| 90 - 315 | 230 V / 3500 W | Without transport crate, Swiss plug | **790 143 033** | 229.000 |
| 90 - 315 | 230 V / 3500 W | With standard transport crate, Swiss plug | **790 143 034** | 269.000 |
| 90 - 315 | 230 V / 3500 W | With special transport crate, Swiss plug | **790 143 035** | 366.000 |



## IM 315 - D
## Butt fusion machine for industrial applications

- Butt fusion machine for PP, PE, PB and PVDF pipes and fittings for industrial applications with pressure piping systems.
- Equipped with a load cell and digital display for easy viewing and precise indication of the welding force.
- Extremely sturdy design for use in the workshop and on job sites.
- Designed to provide the highest flexibility to adapt to different sizes or shapes of fittings.
- Angular jointing provided up to 30° (2x15°) for prefabrication of segmented fittings.
- Dimensional range for straight jointing: d90-315 mm, from SDR 41 up to SDR 11 with PE,PP d315 mm. Limitations in the dimensional range are to be considered for angular jointing, depending on the angle (refer to user's manual).
- **BASE MACHINE**
- High precision, distortion-free and robust machine base
- Integrated swivel tables for angular jointing up to 30° (2x15°)
- Handwheel for easy moving of machine carriage
- Exact pressure adjustment via direct spring load transfer
- Digital display for force indication
- Fusion pressure is maintained with a user friendly fast-locking handle
- Inner left and right clamping elements, for picking up reduction clamping inserts d 90-315 mm, with fast-locking handle
- Optional outer, horizontally removable clamping devices available
- Weight (including planer and heater): 169 kg
- **PLANER**
- Optimized cutting geometry for even and chatter-free planing
- Swivel mounted for ergonomic handling
- Mechanical stop to provide single sided planing and defined facing depth
- Integrated safety switch to prevent unintentional start-up
- Self-locking mechanism in working position
- **HEATER**
- High-performance and precision heater with electronic temperature control (2500W)
- High accuracy of +/- 4°C over the entire heating surface
- High quality, non-stick PTFE coating
- Pull-off mechanism to automatically detach the heating plate from pipe ends
- Metal sheet cover to protect the heating plate in idle position
- Integrated thermometer for fast visual check of plate temperature
- **ADDITIONAL STANDARD EQUIPMENT**
- Reduction clamping inserts set  d 90-315 mm
- Pipe supports for picking up reduction supporting inserts d 90-315 mm
- Reduction pipe supporting inserts set d 90-315 mm
- Timer to clock fusion times
- Machine specific tool set

| d-d (mm) | Performance | Description | Code | Weight (kg) |
|---|---|---|---|---|
| 90 - 315 | 230 V / 3500 W | With standard transport crate | **790 143 002** | 269.000 |
| 90 - 315 | 230 V / 3500 W | With special transport crate | **790 143 004** | 366.000 |
| 90 - 315 | 230 V / 3500 W | With standard transport crate, Swiss plug | **790 143 036** | 269.000 |
| 90 - 315 | 230 V / 3500 W | With special transport crate, Swiss plug | **790 143 037** | 366.000 |

Building Technology Range

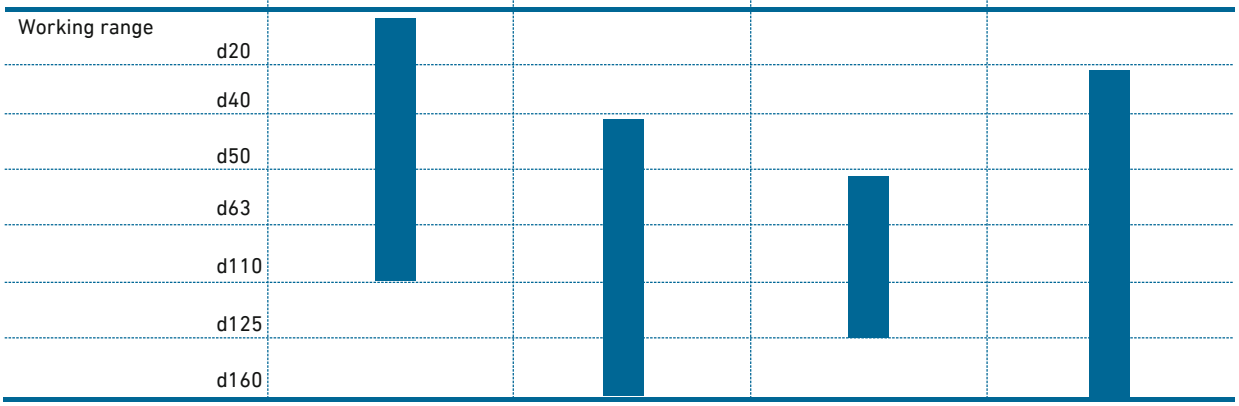
# Butt/socket fusion machines

## Product Range Overview






| Characteristics | MC 110 | MD 160 | JIG 125 | PSO 701 |
|---|---|---|---|---|
| Max jointing diameter (mm) | 110 | 160 | 125 | 160 |
| SDR Range | 41-11 | 41-11 | - | 41-17.6 |
| Jointing technology | Butt | Butt | Socket | Butt |
| Jonting materia | PE, PP | PE, PP | PE, PP | PE, PP |
| Working range (°C) | -10/+45 | -10/+45 | -10/+45 | -10/+45 |
| Input voltage (Vac) | 230/115 | 230/115 | 230/115 | 230/115 |
| Performance (W) | 1360 | 1800 | 1500 | 1360 |
| Heating element useable as manual tool | ✓ | ✓ | ✓ | ✓ |
| Heating temperature control | Electronic | Electronic | Electronic | Electronic |
| Transport box useable as working bench | | | | ✓ |
| Weight - Base machine (Kg) | 6 | 14 | 10 | 10 |



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|  | PSO 701 | 654 |





## MC 110
### Portable butt fusion machine

- Portable butt fusion machine for use in the workshop and on job sites. For fusion jointing of PP and PE pipes and fittings as well as prefabrication of segments in the size range d 20 - 110 mm and up to SDR 11.
- For dimensions d20,25 mm the alignment tolerances between pipes are very tight, so they can be influenced by pipes and operating conditions.
- Machine MC 110 complete includes: machine mounting, base machine, 2 base clamping plates (wide), base clamping plate (left narrow) , table clamp and transport box. Depending on the configuration chosen, the planer can be electrically or manually operated, and the heater can be electronic or thermostatic controlled.
- Including transport packaging, without accessories

| Type | d-d (mm) | Performance | Code | Weight (kg) |
|---|---|---|---|---|
| MC 110 with electric planer, electronic heater | 20 - 110 | 230V/1360W | **790 109 347** | 31.000 |
| MC 110 with manual planer, electronic heater | 20 - 110 | 230V/800W | **790 109 348** | 28.000 |

# MC 110 Accessories



## Base clamping plate, right narrow

- 110 mm for fitting/pipe joints
- For mounting the narrow reduction clamping inserts
- Freely adjustable (max. 15°)

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 110 | **790 109 310** | 0.945 |



## Set reduction clamping inserts

- The set for the wide clamps contains 4 half shells of each dimension
- The set for the narrow clamp contains 2 half shells of each dimension

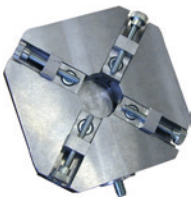
| d-d (mm) | wide Code | Weight (kg) | narrow Code | Weight (kg) |
|---|---|---|---|---|
| 20 - 90 | **790 300 019** | 4.532 | **790 300 029** | 3.478 |



## Reduction clamping inserts

- 20 - 90 mm
- Each code number defines 1 half shell. Per wide base clamping plate 2 reduction half -shells are needed.

| d (mm) | wide Code | Weight (kg) | narrow Code | Weight (kg) |
|---|---|---|---|---|
| 20 | **790 109 326** | 0.150 | **790 109 334** | 0.263 |
| 25 | **790 109 327** | 0.139 | **790 109 335** | 0.135 |
| 32 | **790 109 328** | 0.133 | **790 109 336** | 0.136 |
| 40 | **790 109 329** | 0.130 | **790 109 337** | 0.258 |
| 50 | **790 109 330** | 0.113 | **790 109 338** | 0.239 |
| 56 | **790 109 342** | 0.137 | **790 109 343** | 0.115 |
| 63 | **790 109 331** | 0.120 | **790 109 339** | 0.108 |
| 75 | **790 109 332** | 0.110 | **790 109 340** | 0.193 |
| 90 | **790 109 333** | 0.100 | **790 109 341** | 0.148 |



## Flange adapter clamping unit

- For correct clamping and fusion jointing of short-ended stub ends

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 25 - 110 | **790 109 316** | 1.630 |



## Set of replacement blades for planer

- Blade has 2 cutting edges (1 set = 2 blades)

| Code | Weight (kg) |
|---|---|
| **790 118 043** | 0.045 |

# MD 160/JIG 125



## COMBI MD 160/JIG 125 Compact machine for fusion of PE and PP pipes and fittings

- One single base machine with 2 different specific clamping units and the complete components set for quick set-up for butt fusion (**MD 160** configuration) and socket fusion (**JIG 125** configuration) jointing
- Provided with special transport box for easy transportation of all machine components
- Including machine specific tool set

| Performance | Code | Weight (kg) |
|---|---|---|
| 230 V/2500 W | **790 109 004** | 97.000 |
| 115 V/2500 W | **790 109 005** | 97.000 |



## MD 160 Compact butt fusion machine

- Portable butt fusion machine for use in the workshop and on job site
- For jointing PE, PP pipes and fittings in the dimensional range d 50 – 160 mm, up to wall thickness of SDR 11
- Light and sturdy base machine (13.8 kg weight with clamping units) suitable for direct use on the installed pipeline
- Suitable for prefabrication of segmented elbows and bends, with maximum jointing angle of 30° (table support included)
- Each clamping unit consists of a narrow clamp, suitable also for short-end fittings, and the pipe support
- The complete reductions inserts set d 50 – 140 mm for clamps and pipe supports is included
- Additional clamps, to be placed at the left and right outer sides, are available as accessories
- Handwheel for easy moving of machine carriage
- Exact pressure adjustment via direct spring load transfer
- Powerful parallel planer for single or double-sided facing of pipe ends
- High performance, electronically controlled heating element
- Including transport packaging and machine specific tool set

| d-d (mm) | Performance | Code | Weight (kg) |
|---|---|---|---|
| 50 - 160 | 230 V/1800 W | **790 109 006** | 57.000 |
| 50 - 160 | 115 V/1800 W | **790 109 007** | 57.000 |



## JIG 125 Compact socket fusion machine

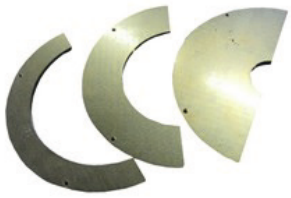
- For jointing PE, PP pipes and fittings in the dimensional range d 63 – 125 mm
- Light and sturdy base machine (10.3 kg weight with clamping units) specifically designed for direct use on the installed pipeline
- Prismatic clamping units, specifically designed for pipes (double clamp) and fittings (single clamp)
- Back-stop included to enhance clamping action onto the fittings
- Handwheel for easy moving of machine carriage
- High performance, electronically controlled heating element
- Complete set of heating spigots and bushes d 63 – 125 mm (Type A according to DVS 2208-1)
- Including transport packaging and machine specific tool set

| d-d (mm) | Performance | Code | Weight (kg) |
|---|---|---|---|
| 63 - 125 | 230 V/1500 W | **790 310 006** | 44.000 |



## Additional outer clamps

| d (mm) | Type | Code | Weight (kg) |
|---|---|---|---|
| 160 | Left | **790 109 058** | 2.600 |
| 160 | Right | **790 109 057** | 2.600 |



## Reduction inserts set

- Dedicated to a single clamp: 2 clamping inserts of each dimension

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 50 - 140 | **790 109 064** | 5.400 |



## Table clamp

- Specifically designed for placing the heater on a working bench

| Code | Weight (kg) |
|---|---|
| **790 109 315** | 0.660 |



## PSO 701
## Butt fusion machine for sanitary applications

- Compact and mobile butt fusion machine for PE pipes for the use in the workshop and on the building site. Perfect for sanitary installations and wastepipes. The wooden box is usable as working bench as well as for transportation
- Pressure adjustment via direct load transfer (max. force 100 kp). PE max. d 160 mm SDR 17,6.
- Planer and heating element could be swivelled in and out
- High performance heating element thermostatic controlled (PTFE coated)
- The heating element can be used as manual fusion tool
- Fast-locking base clamping plates, right and left, d 160 mm
- Complete reduction clamping inserts set d 40 - 140 mm
- V-shaped pipe support with inserts d 40 - 140 mm
- Machine specific tool set

| d-d (mm) | Performance | Code | Weight (kg) |
|---|---|---|---|
| 40 - 160 | 230 V/1360 W | **790 301 000** | 107.000 |



## Set of replacement blades for planer

- Blade has 2 cutting edges (1 set = 2 blades)

| d-d (mm) | Code | Weight (kg) |
|---|---|---|
| 40 - 160 | **790 113 056** | 0.059 |



## Plastic pipe cutter
## For PE pipes

- This cutter is suitable for PE pipes and can be used on pipes of up to d 225 mm with a wall thickness of up to 21 mm.

| d (mm) | Code | Weight (kg) | Description |
|---|---|---|---|
| 39 | **799 198 012** | 0.215 | accessories Basic Tool Box |

# Manual fusion tools

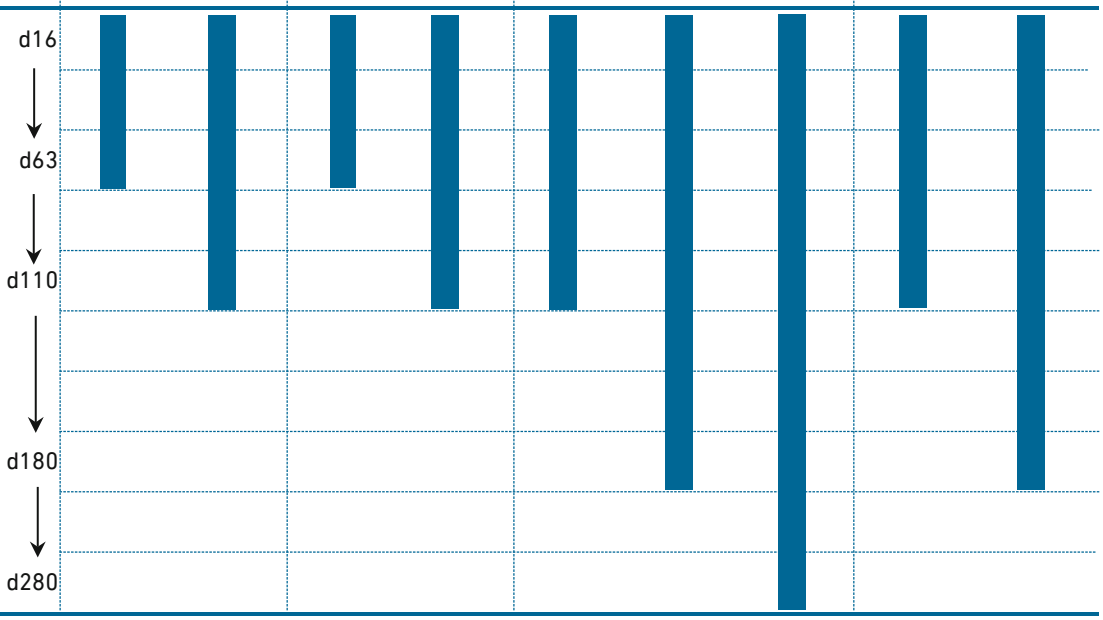
## Product Range Overview






| Characteristics | MSE63 | MSE110 | MSE63 Toolset | MSE110 Toolset | SSE120 | SSE220 | SSE300 | SSE200 Toolset | SSE300 Toolset |
|---|---|---|---|---|---|---|---|---|---|
| Max jointing diameter (mm) | 63 | 110 | 1400 | 1400 | 1200 | 1200 | 800 | 1400 | 1400 |
| Jointing technology | Socket | Socket | Socket | Socket | Butt | Butt | Butt | Butt | Butt |
| Jointing material | PE, PP | PE, PP | PE,PP | PE,PP | PE,PP | PE,PP | PE,PP | PE,PP | PE,PP |
| Working range (°C) | -10/+45 | -10/+45 | -10/+45 | -10/+45 | -10/+45 | -10/+45 | -10/+45 | -10/+45 | -10/+45 |
| Input voltage (Vac) | 230/115 | 230/115 | 230/115 | 230/115 | 230 | 230 | 230 | 230 | 230 |
| Heating temperature control | Electronic | | Electronic | | Electronic | | | Electronic | |
| Performance (W) | 800 | 1500 | 800 | 1500 | 400 | 800 | 1500 | 800 | 1500 |
| Bushes and spigots included | | | ✓ | ✓ | | | | | |
| Table clamp | | | ✓ | ✓ | | | | ✓ | ✓ |
| Toolbox | | | ✓ | ✓ | | | | ✓ | ✓ |
| Allen screws and key | | | ✓ | ✓ | | | | | |
| Weight (Kg) | 1.8 | 3.2 | 8.7 | 17.7 | 2.4 | 3.0 | 4.8 | 7.7 | 12.5 |
| Power supply cable length | 2m | 2m | 2m | 2m | 2m | 2m | 2m | 2m | 2m |

Working range



# Socket fusion tools



## MSE 63/MSE 110 Socket fusion toolset

- For fusion jointing of PP and PE pipes and fittings
- All devices equipped with on/off switch, mains and temperature control lamp
- Electronic temperature control
- Support for heating bushes and spigots of d 16 to 63 mm (110 mm)
- Pick up for floor stand or table clamp
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface
- High-quality, non-stick PTFE-coating with long service life
- Heating bushes and spigots
- Available as a complete set in a practical metal case
- Table clamp
- Floor stand for MSE 63
- Alen screws and key
- The 115 V type is available both in the version with plug (US standard NEMA 5-15P) and in the version without plug, to make possible for the customer to assemble any other type of plug, compatible with the tool technical specifications, under his own responsibility.

| d-d (mm) | Type | Performance | Code | Weight (kg) |
|---|---|---|---|---|
| 16 - 63 | MSE 63 E with Schuko plug | 230 V/800 W | **790 105 086** | 8.700 |
| 16 - 63 | MSE 63 E without plug | 115 V/800 W | **790 105 099** | 9.979 |
| 16 - 63 | MSE 63 E with US plug | 115 V/800 W | **790 105 123** | 10.050 |
| 16 - 110 | MSE 110 E with Schuko plug | 230 V/1500 W | **790 105 088** | 16.523 |
| 16 - 110 | MSE 110 E without plug | 115 V/1500 W | **790 105 129** | 18.000 |
| 16 - 110 | MSE 63 E with US plug | 115 V/1500 W | **790 105 135** | 18.050 |



## MSE 63/MSE 110 Socket fusion tool

- For fusion jointing of PP and PE pipes and fittings
- Electronic temperature control
- Support for heating bushes and spigots of d 16 to 63 mm (110 mm)
- Pick up for floor stand or table clamp
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface
- The 115 V type is available both in the version with plug (US standard NEMA 5-15P) and in the version without plug, to make possible for the customer to assemble any other type of plug, compatible with the tool technical specifications, under his own responsibility.

| d-d (mm) | Type | Performance | Code | Weight (kg) |
|---|---|---|---|---|
| 16 - 63 | MSE 63 E with Schuko plug | 230 V/800 W | **790 105 082** | 1.800 |
| 16 - 63 | MSE 63 E without plug | 115 V/800 W | **790 105 097** | 2.145 |
| 16 - 63 | MSE 63 E with US plug | 115 V/800 W | **790 105 164** | 2.200 |
| 16 - 110 | MSE 110 E with Schuko plug | 230 V/1500 W | **790 105 084** | 3.200 |
| 16 - 110 | MSE 110 E without plug | 115 V/1500 W | **790 105 127** | 3.200 |
| 16 - 110 | MSE 110 E with US plug | 115 V/1500 W | **790 105 175** | 3.250 |

# Butt fusion tools



## SSE 200/SSE 300 Butt fusion toolset

- Heating element diameter 200mm or 300mm
- High-quality, non-stick PTFE-coating with long service life
- Electronic temperature control
- High temperature accuracy over the entire heating surface
- All devices equipped with on/off switch, mains and temperature control lamp
- Monitoring and setting of heating element temperature
- Available as a complete set in a practical metal case
- Table clamp
- Pick up for floor stand or table clamp

| Type | d-d (mm) | Performance | Code | Weight (kg) |
|---|---|---|---|---|
| SSE 200 E | 16 - 180 | 230 V/800 W | **790 105 061** | 7.700 |
| SSE 300 E | 16 - 280 | 230 V/1500 W | **790 105 062** | 12.500 |



## SSE Butt fusion tools

- All devices equipped with on/off switch, mains and temperature control lamp
- Electronic temperature control
- Heating element diameter 120 mm, 200 mm and 300 mm
- The SSE 120 heater plate is bent 45°
- Pick up for floor stand or table clamp
- High-quality, non-stick PTFE-coating with long service life
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface

| Type | d (mm) | Performance | Code | Weight (kg) |
|---|---|---|---|---|
| SSE 120 E | 110 | 230 V/400 W | **790 105 058** | 2.400 |
| SSE 200 E | 180 | 230 V/800 W | **790 105 059** | 3.000 |
| SSE 300 E | 280 | 230 V/1500 W | **790 105 060** | 5.640 |

# Accessories/Wearing parts for manual fusion tools



## Table clamp

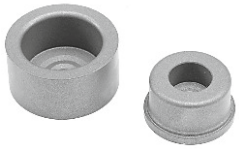
- Specifically designed for placing the heater on a working bench

| Code | Weight (kg) |
|---|---|
| **790 109 315** | 0.660 |



## Floor stand for manual fusion tools SSE/MSE

| Code | Weight (kg) |
|---|---|
| **790 105 063** | 0.380 |



## Heating spigots and bushes

- For socket fusion systems in PP, PE
- For specific PVDF socket fusion jointing
- Type B according to DVS 2208-1 (mechanical calibrated pipe ends)
- Always delivered in pairs (also usable for SG 110, SG 125, not for SG 160)

| d (mm) | Code | Weight (kg) |
|---|---|---|
| 16 | **799 300 155** | 0.085 |
| 20 | **799 300 156** | 0.090 |
| 25 | **799 300 157** | 0.154 |
| 32 | **799 300 158** | 0.211 |
| 40 | **799 300 159** | 0.309 |
| 50 | **799 300 160** | 0.434 |
| 63 | **799 300 161** | 0.594 |
| 75 | **799 300 162** | 0.981 |
| 90 | **799 300 163** | 1.452 |
| 110 | **799 300 164** | 2.008 |

GF Piping Systems

# Process Automation made easy



Together as one

# We make Process Automation easy

GF Piping Systems is your experienced partner with a full portfolio of measurement, control, and actuation components, which are easy to install and use and have local support through all project phases. We off er the full package with our products and solutions, providing top-quality installation, a highly skilled team of experts standing by our customers‘ side every step of the way worldwide, and digitalized services ensuring a project is at the forefront of the market.

## One user experience across the whole control loop

**Accurate measurement is the basis for reliable process control**
Physical parameters as well as analytics, including installation fi ttings, for an effortless combination.

**Precise control throughout your automation loop**
Single or dual channel with additional control capabilities.

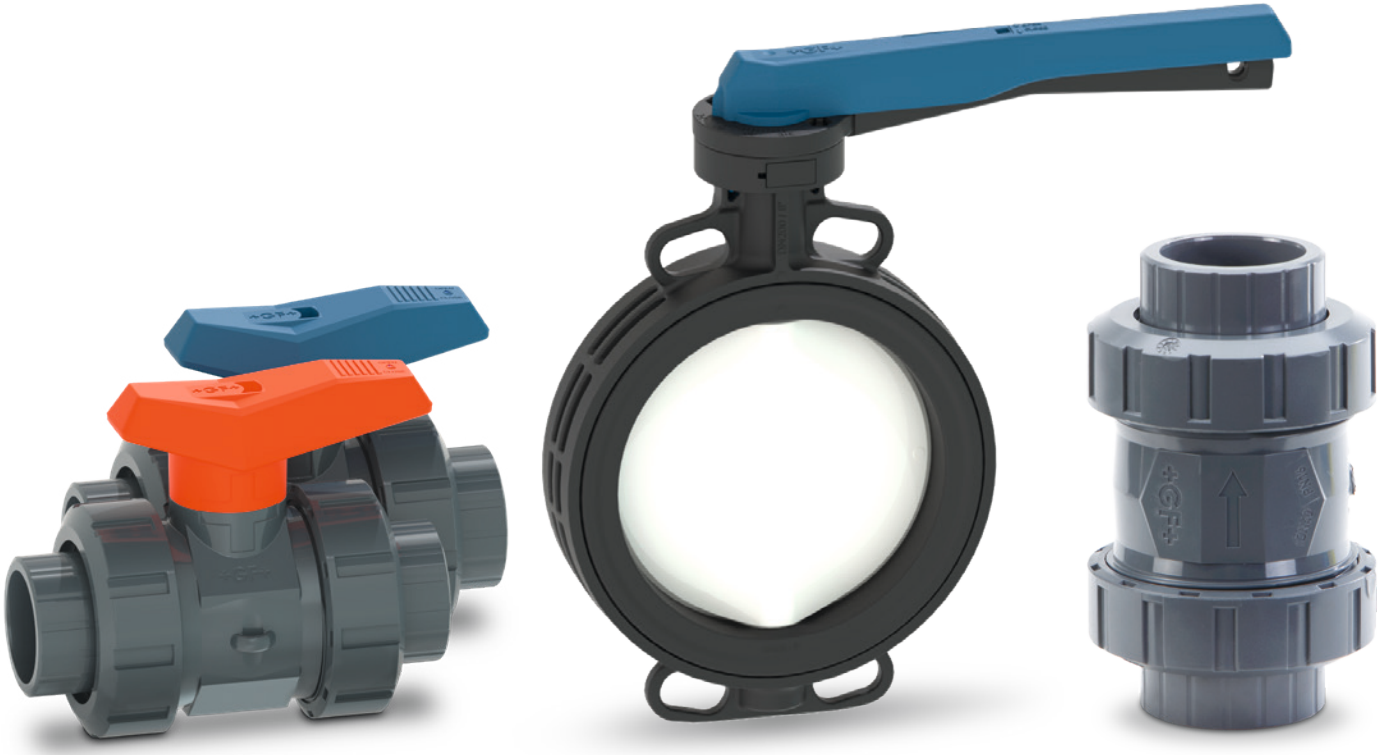
**Reliable actuation with configuration flexibility**
Electric and pneumatic actuators for high flexibility on standardized valve interfaces. A wide range of accessories complete our actuation portfolio

**The right valve for your application**
Ball Valves, Butterfly Valves, Diaphragm Valves, and various process valves including pipe connections that make installation a breeze.



**www.gfps.com/processautomation**

# Ball valves / Butterfly valves / Check valves



# Ball valve type 546



## Product description

Due to its material diversity, ball valve type 546 is the ideal valve for use in applications ranging from simple water applications right up to demanding chemical processes. Its modular construction guarantees simple operation, flexibility, universal automation options and the greatest possible process safety.

### Function

The ball valve is similar in concept to the plug valve but uses a rotating ball with a hole through it that allows straight-through flow in the open position and shuts off flow when the ball is rotated 90° to block the flow passage. This fitting is primarily used for open/close functions and also for throttling services.

Applications

- Chemical process industry
- Water treatment
- Microelectronics
- Measurement and control
- Shipbuilding
- Food & beverage

### Benefits/features

- Manual valve or automatic valve with/without electrical feedback
- Ergonomic hand lever with integrated tool for removing union bushing
- Lockable lever (optional)
- Labeling in lever (optional)
- Integrated fixation system with mounted threaded inserts
- Spacers keep the level of the piping system constant and simplify installation
- Individual online configuration is possible
- Oil-free and silicone-free version
- Very high flow rate
- Universal interface makes possible a combination with all actuators

### Flow media

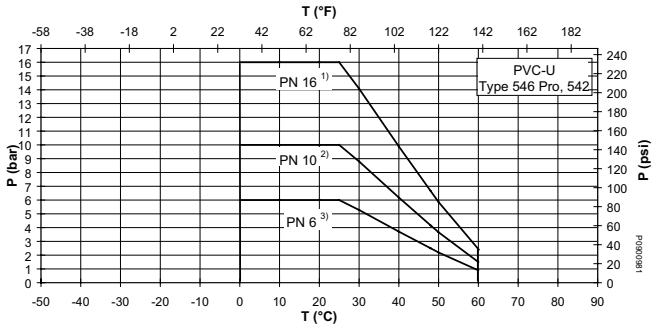
Neutral and aggressive media with a small amount of particles/solids. The chemical resistance is independent of the selected valve material (see list of chemical resistance from GF Piping Systems).

## Pressure-temperature diagrams

The following pressure-temperature diagrams are based on a service life of 25 years and water or similar media.

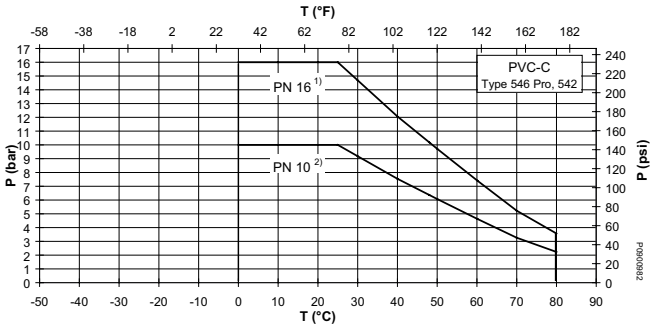
T Temperature (°C, °F)
P Permissible pressure (bar, psi)

### PVC-U



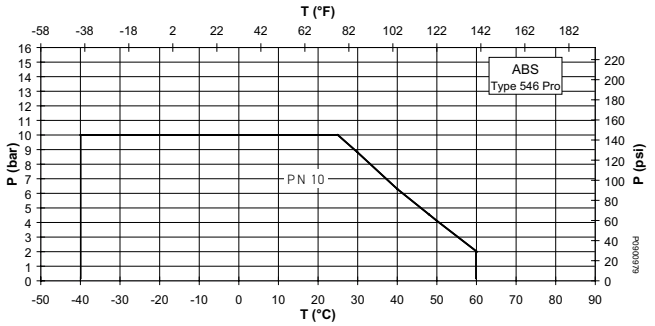

1) The central part of the ball valve is designed for the nominal pressure PN16
2) Depending on the connection, the nominal pressure is reduced to PN10
3) Depending on the connection, the nominal pressure is reduced to PN6

### PVC-C

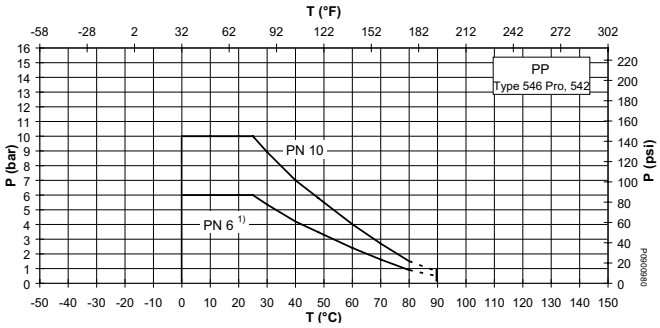



1) The central part of the ball valve is designed for the nominal pressure PN16
2) Depending on the connection, the nominal pressure is reduced to PN10

### ABS

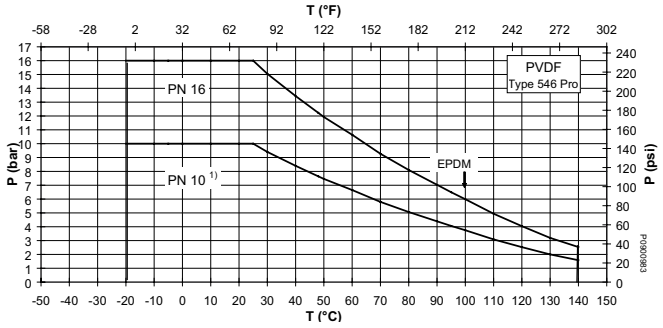



### PP




1) For example, ball valve with butt fusion spigot PP or PE100, SDR 17

### PVDF




1) For example, ball valve with threaded socket EPDM gasket up to max. 100 °C

# Butterfly valve, hand-operated

## Butterfly valve type 567/578

| | | | |
|---|---|---|---|
|  |  |  |  |
| **Type 567**<br>Standard for wafer style installation | **Type 567**<br>For fine adjustment | **Type 567**<br>Manual reduction gear | **Type 578**<br>For lug style and wafer style installation |

## Product description

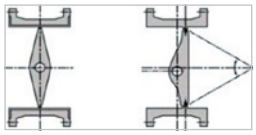
Butterfly valves of types 567 and 578 are corrosion -resistant and reliable control and shut-off valves that can be used in most applications in industrial water treatment, the chemical process industry, chemical trade, galvanization and in power plants. The valves are intended for wafer style and lug style applications. They are compact, varied and reliable. The valve is modular in design, allowing individual system parts to be exchanged at any time.

## Function

Butterfly valves of types 567 and 578 have a double-eccentric mode of action and are of modular construction.

**Double eccentric operating principle**

The disc does not touch the seal in the open position. The disc can be quickly unscrewed from the gasket, ensuring low wear and tear. Pressure surges in the direction of flow can be absorbed more readily.



**Use as a process and control valve**

The butterfly valves can be equipped with corresponding pneumatic or electrical actuators and used as process and regulating valves. With extensive accessories, such as the integrated electrical position indicator. This enables direct feedback of the axis position in the valve head flange by means of limit switches and thereby an exact determination of the position of the valve disc.

## Benefits/features

**Type 567**

- High corrosion resistance: all components that come into contact with media are made of plastic
- Low wear and tear: up to 50 % lower operation torque than centric valves
- Leak-tightness within and without: double, internal axis gasket on both sides
- On standard versions, the lever is in increments of 5 degrees

**Type 578**

- Use as lugged valve with threaded bushes integrated into the housing
- Lower weight than metallic butterfly valves due to use of fiberglass-reinforced plastic as housing material
- High corrosion resistance: all components that come into contact with media are made of plastic
- Low wear and tear: up to 50 % lower actuating torque than centric valves
- Leak-tightness within and without: double, internal axis gasket on both sides

## Flow media

- Very well suited for liquid media
- Suited for gaseous media
- Conditionally suited for media containing solids
- Conditionally suited for viscous media

## Applications

- Industrial water treatment
- Seawater desalinization
- Swimming pools
- Aquariums/oceanariums
- Chemical process industry
- Surface engineering
- Power plant construction

## Valve handling

**Installation notes**

**Differentiation between and use of the types concerned**

- Use butterfly valve type 567 only as a wafer style valve.
- Use butterfly valve type 578 as either a wafer style or a lug style valve.

As a connecting piece, GF Piping Systems recommends valve ends or flange adapters with smooth jointing faces, together with flanges made of PVC-U, PP-V, PP/steel or UP-GF. In the case of BB/VSB with a fluted jointing face, a flat gasket may also be used in individual cases.

**Requirements for installation**

Ensure that the following conditions are satisfied prior to installation:

- Make sure that the butterfly valves to be installed correspond specifically to the pressure rating, type of connection, dimension and materials of the particular application.
- Perform a function test. To do this, close and re-open the butterfly valve.
- Only install butterfly valves that function without problems.

## Maintenance notes

In normal operation, butterfly valves do not require maintenance. It is nonetheless recommended to perform maintenance on butterfly valves after 5,000 actuation cycles at most. The following steps must be taken when doing so:

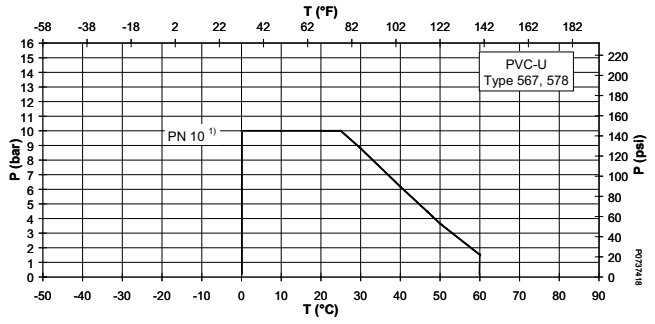
- Regularly check that no medium escapes to the outside. If medium exits from the flange connections, tighten them.
- We recommend operating the butterfly valves that are kept permanently in the same position 1 or 2 x a year to check their functionality.
- Depending on the operating conditions, the collars should be lubricated periodically with (silicon-based) grease.
- It is recommended that you check and, if necessary, replace the O-rings when removing the bearing bushings.

## Pressure-temperature diagrams

The following pressure-temperature diagrams are based on a lifetime of 25 years and water or similar media.

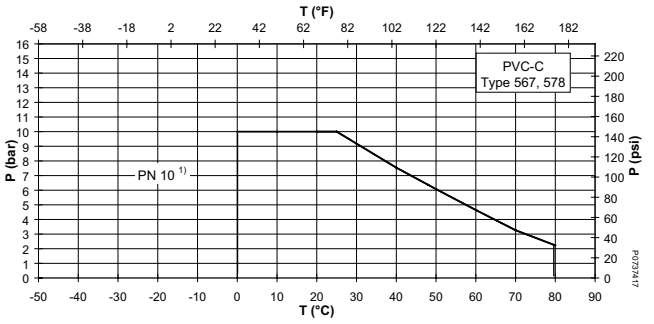
T Temperature (°C, °F)
P Permissible pressure (bar, psi)

### PVC-U (DN50 – DN300)



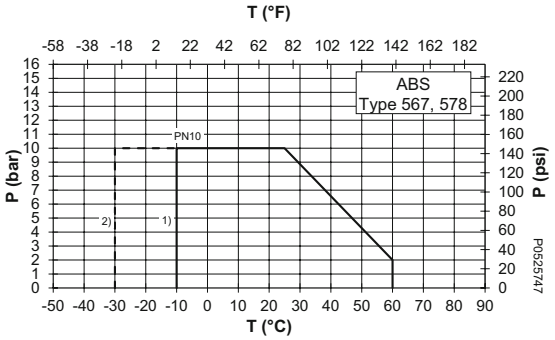

1) DN50 – DN300

### PVC-C (DN50 – DN300)



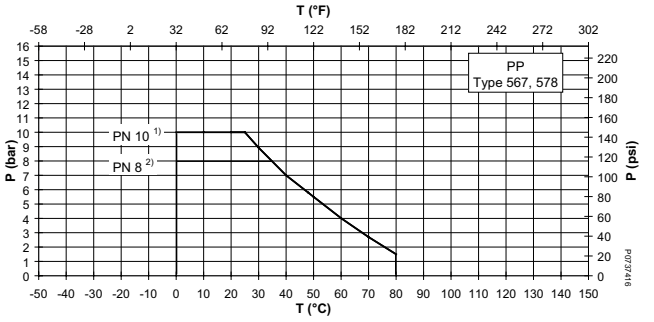

1) DN50 – DN300

### ABS (DN50 – DN300)



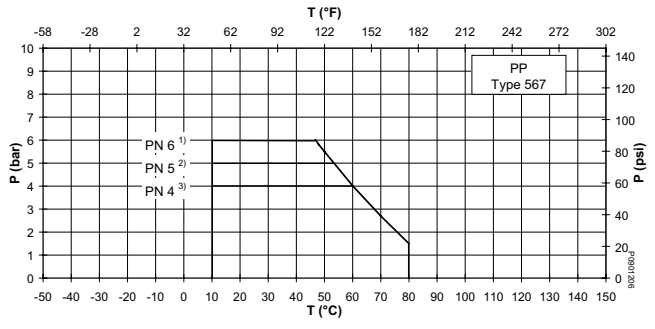

1) with standard type 567/578
2) - with PE flange adapter: only with COOL-FIT version of type 567
- with ABS flange adapter: with standard type 567/578 in installation direction A-B, or with COOL-FIT version of type 567

### PP (DN50 – DN300)



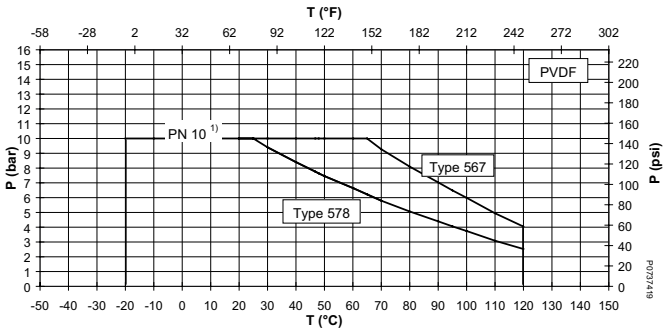

1) DN50 – DN200
2) DN250 – DN300

### PP (DN350 – DN600)




1) DN350 – DN400
2) DN450
3) DN500 – DN600

### PVDF (DN50 – DN300)




1) DN50 – DN300

Butterfly Valve 565 Lug-Style

# Built for you

At GF Piping Systems, we understand that different challenges require adjustable solutions. This is why we revolutionized the well-proven design of lug-style butterfly valves. Adding plug-in lug inserts ensures the highest compatibility, flexibility, and increased sustainability.



**Customizable and sustainable**
The inserts are high-grade stainless steel as standard. Depending on individual requirements, the material can be changed to various materials on request. The removable inserts not only allow for the highest flexibility and customization but also for correctly sorted recycling at the end of service life, too.

**Easier installation**
Thermoplastic valves are on average 60% lighter than metal valves, making them easier to transport, handle, and install. Their lightweight design also reduces transportation and operation costs. The 565 comes in the same installation length (EN558 row 20, ISO 5752 row 20) as metal solutions facilitating the installation even more.

**Inductive feedback sensor**
The Butterfly Valve 565 is offered with inductive sensors that signal the CLOSED or OPEN position of the valve via an electric signal to a controller supplied by the customer. This feedback system can be added with the valve in-line and a new sensor swapped without removing the operator.



**Unique and patented**
The design of the valve housing is open at the side. The unique and patented design allows for easy access to the inserts. With this plug-in design of the inserts, less material is used than conventional solutions with over-molded inserts.

**Better performance**
Unlike metal valves, thermoplastic valves are immune to corrosion from rust and chemicals, which makes them ideal for use in harsh environments. They also have low thermal conductivity, which means they are better insulators than metal valves.

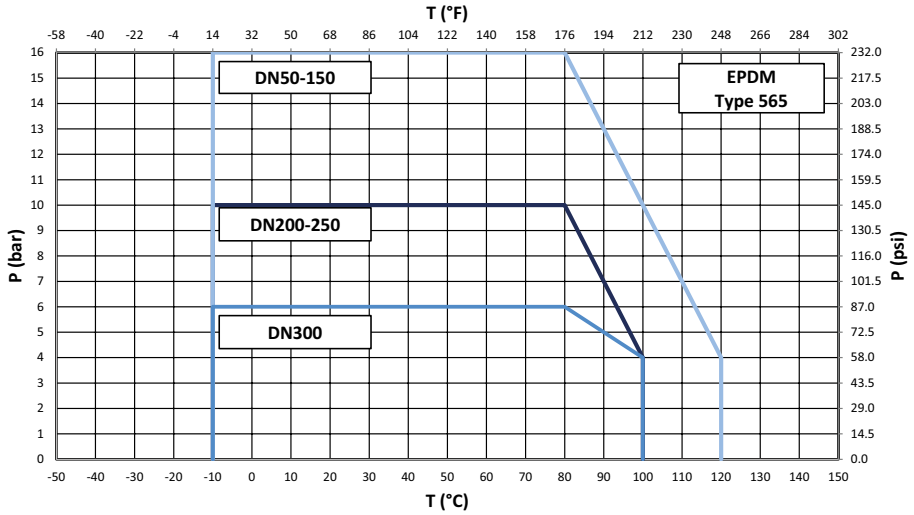
**Full insight**
The Data-Matrix-Code on the 565 simplifies the storage of all technical information for each valve, thus enabling individual traceability. The faultless identification of each valve facilitates easy installation, service, and repair.

**Reinforced disc**
The Butterfly Valve 565 has a unique and patented disc design. The inner disc is made of fiber-reinforced polyamide and is encapsulated with PVDF. This design strengthens the durability and pressure/temperature performance of the valve.

# Pressure-temperature diagrams*

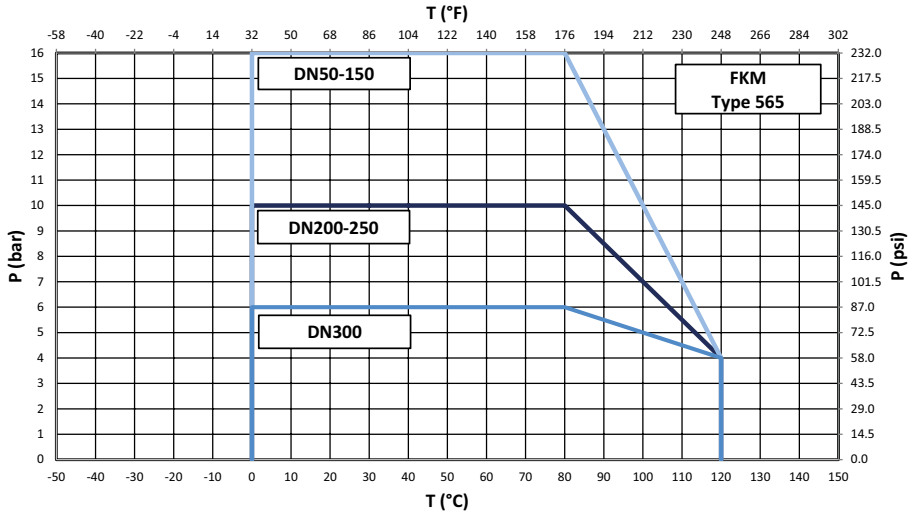
## EPDM (DN50 – DN300)

T Temperature (°C, °F)
P Permissible pressure (bar, psi)




## FKM (DN50 – DN300)

T Temperature (°C, °F)
P Permissible pressure (bar, psi)




*Based on a lifetime of 25 years and water or similar media.

### Specifications

| | | | | | | |
|---|---|---|---|---|---|---|
| **Body type** | 565W - Wafer-style housing | | | | | |
| | 565L - Lug-style housing | | | | | |
| **Dimensions** | d63/DN50 – d315/DN300, 2“ – 12“ | | | | | |
| **Pressure ratings** | Manual actuated | | Electric actuated | | Pneumatic actuated | |
| | DN50-150 | PN16 | DN50-200 | PN10 | DN50-250 | PN10 |
| | DN200-250 | PN10 | DN250 | PN6 | DN300 | PN6 |
| | DN300 | PN6 | DN300 | PN4 | | |
| **Actuation variants** | Manually operated (lockable hand lever or manual reduction gear) | | | | | |
| | Pneumatic actuated: FC, FO, DA | | | | | |
| | Electric actuated: EA45-250 AC: 100 – 230 V, AC/DC: 24 V, Smart actuator dEA | | | | | |
| **Actuator interface** | EN ISO 5211 | | | | | |
| **Flange standards** | ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K | | | | | |
| **Markings** | CE, UKCA | | | | | |
| **Product Standard** | EN ISO 16136 | | | | | |
| **Test Standard** | ISO 9393-2, EN 12266-1 (leackage rate A) | | | | | |
| **Approvals** | ACS, ABS, BV, DNV, EAC, EPD, FDA, KTW-BWGL, LR, NSF; PZH, RINA, WRAS, SIL | | | | | |

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|  | Ball valves | 672 |
|  | Butterfly valves | 702 |
|  | Type 565 Lug | 723 |
|  | Cone check valves | 729 |
|  | Wafer check valves | 738 |
|  | Process control valves | 740 |

# Ball valves



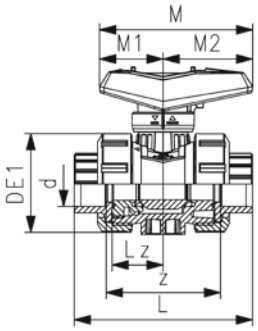
## ABS Ball Valve type 546 Pro
## With solvent cement sockets ABS ISO

**Model:**

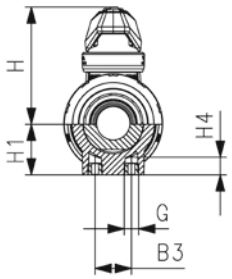
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

**Option:**

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible




| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 16 | 10 | ⅜ | 10 | 70 | **169 546 061** | 0.112 |
| 20 | 15 | ½ | 10 | 185 | **169 546 062** | 0.114 |
| 25 | 20 | ¾ | 10 | 350 | **169 546 063** | 0.188 |
| 32 | 25 | 1 | 10 | 700 | **169 546 064** | 0.272 |
| 40 | 32 | 1 ¼ | 10 | 1000 | **169 546 065** | 0.481 |
| 50 | 40 | 1 ½ | 10 | 1600 | **169 546 066** | 0.657 |
| 63 | 50 | 2 | 10 | 3100 | **169 546 067** | 1.200 |
| 75 | 65 | 2 ½ | 10 | 5000 | **169 546 068** | 3.463 |
| 90 | 80 | 3 | 10 | 7000 | **169 546 069** | 5.700 |
| 110 | 100 | 4 | 10 | 11000 | **169 546 070** | 6.985 |




| d (mm) | B3 (mm) | DE1 (mm) | G (inch) | H (mm) | H1 (mm) | H4 (mm) | L (mm) | Lz (mm) | M (mm) | M1 (mm) | M2 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 25 | 50 | M6 | 60.5 | 27 | 12 | 92 | 28 | 82 | 35 | 47 | 64 |
| 20 | 25 | 50 | M6 | 60.5 | 27 | 12 | 95 | 28 | 82 | 35 | 47 | 64 |
| 25 | 25 | 58 | M6 | 74.0 | 30 | 12 | 110 | 33 | 106 | 44 | 62 | 72 |
| 32 | 25 | 68 | M6 | 80.0 | 36 | 12 | 123 | 36 | 106 | 44 | 62 | 79 |
| 40 | 45 | 84 | M8 | 95.0 | 44 | 15 | 146 | 43 | 131 | 57 | 74 | 94 |
| 50 | 45 | 97 | M8 | 101.5 | 51 | 15 | 157 | 45 | 131 | 57 | 74 | 95 |
| 63 | 45 | 124 | M8 | 116.5 | 64 | 15 | 183 | 51 | 152 | 66 | 86 | 107 |
| 75 | 70 | 166 | M8 | 169.0 | 85 | 15 | 233 | 68 | 270 | 64 | 205 | 144 |
| 90 | 70 | 200 | M8 | 180.0 | 105 | 15 | 255 | 71 | 270 | 64 | 205 | 151 |
| 110 | 120 | 238 | M12 | 194.0 | 123 | 22 | 301 | 82 | 326 | 71 | 255 | 174 |



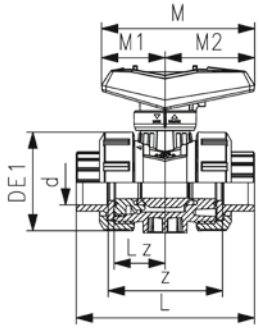
## PVC-U Ball Valve type 546 Pro
## With solvent cement sockets PVC-U ISO

**Model:**

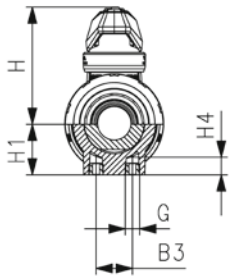
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

**Option:**

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible




| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | ⅜ | 16 | 70 | **161 546 061** | 0.153 | **161 546 071** | 0.156 |
| 20 | 15 | ½ | 16 | 185 | **161 546 062** | 0.156 | **161 546 072** | 0.158 |
| 25 | 20 | ¾ | 16 | 350 | **161 546 063** | 0.240 | **161 546 073** | 0.242 |
| 32 | 25 | 1 | 16 | 700 | **161 546 064** | 0.343 | **161 546 074** | 0.345 |
| 40 | 32 | 1 ¼ | 16 | 1000 | **161 546 065** | 0.610 | **161 546 075** | 0.615 |
| 50 | 40 | 1 ½ | 16 | 1600 | **161 546 066** | 0.838 | **161 546 076** | 0.844 |
| 63 | 50 | 2 | 16 | 3100 | **161 546 067** | 1.537 | **161 546 077** | 1.552 |
| 75 | 65 | 2 ½ | 16 | 5000 | **161 546 068** | 4.343 | **161 546 078** | 3.563 |
| 90 | 80 | 3 | 16 | 7000 | **161 546 069** | 6.184 | **161 546 079** | 5.376 |
| 110 | 100 | 4 | 16 | 11000 | **161 546 070** | 8.642 | **161 546 080** | 11.600 |




| d (mm) | B3 (mm) | DE1 (mm) | G (mm) | H (mm) | H1 (mm) | H4 (mm) | L (mm) | Lz (mm) | M (mm) | M1 (mm) | M2 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 25 | 50 | M6 | 60.5 | 27 | 12 | 92 | 28 | 82 | 35 | 47 | 64 |
| 20 | 25 | 50 | M6 | 60.5 | 27 | 12 | 95 | 28 | 82 | 35 | 47 | 64 |
| 25 | 25 | 58 | M6 | 74.0 | 30 | 12 | 110 | 33 | 106 | 44 | 62 | 72 |
| 32 | 25 | 68 | M6 | 80.0 | 36 | 12 | 123 | 36 | 106 | 44 | 62 | 79 |
| 40 | 45 | 84 | M8 | 95.0 | 44 | 15 | 146 | 43 | 131 | 57 | 74 | 94 |
| 50 | 45 | 97 | M8 | 101.5 | 51 | 15 | 157 | 45 | 131 | 57 | 74 | 95 |
| 63 | 45 | 124 | M8 | 116.5 | 64 | 15 | 183 | 51 | 152 | 66 | 86 | 107 |
| 75 | 70 | 166 | M8 | 169.0 | 85 | 15 | 233 | 68 | 270 | 64 | 205 | 144 |
| 90 | 70 | 200 | M8 | 180.0 | 105 | 15 | 254 | 71 | 270 | 64 | 205 | 151 |
| 110 | 120 | 238 | M12 | 194.0 | 123 | 22 | 301 | 82 | 326 | 71 | 205 | 174 |



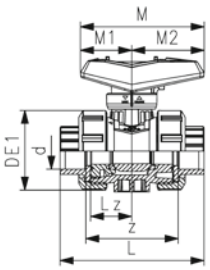
## PVC-C Ball Valve type 546 Pro
## With solvent cement sockets PVC-C ISO

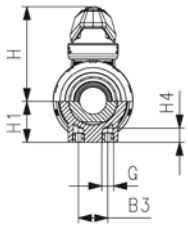
**Model:**

- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

**Option:**

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible




| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | ⅜ | 16 | 70 | **163 546 061** | 0.160 | **163 546 071** | 0.160 |
| 20 | 15 | ½ | 16 | 185 | **163 546 062** | 0.169 | **163 546 072** | 0.160 |
| 25 | 20 | ¾ | 16 | 350 | **163 546 063** | 0.255 | **163 546 073** | 0.245 |
| 32 | 25 | 1 | 16 | 700 | **163 546 064** | 0.370 | **163 546 074** | 0.373 |
| 40 | 32 | 1 ¼ | 16 | 1000 | **163 546 065** | 0.648 | **163 546 075** | 0.658 |
| 50 | 40 | 1 ½ | 16 | 1600 | **163 546 066** | 0.894 | **163 546 076** | 0.890 |
| 63 | 50 | 2 | 16 | 3100 | **163 546 067** | 1.653 | **163 546 077** | 1.662 |
| 75 | 65 | 2 ½ | 16 | 5000 | **163 546 068** | 3.552 | **163 546 078** | 4.122 |
| 90 | 80 | 3 | 16 | 7000 | **163 546 069** | 6.646 | **163 546 079** | 6.698 |
| 110 | 100 | 4 | 16 | 11000 | **163 546 070** | 9.697 | **163 546 080** | 12.700 |

| d (mm) | B3 (mm) | DE1 (mm) | G (mm) | H (mm) | H1 (mm) | H4 (mm) | L (mm) | Lz (mm) | M (mm) | M1 (mm) | M2 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 25 | 50 | M6 | 60.5 | 27 | 12 | 92 | 28 | 82 | 35 | 47 | 64 |
| 20 | 25 | 50 | M6 | 60.5 | 27 | 12 | 95 | 28 | 82 | 35 | 47 | 64 |
| 25 | 25 | 58 | M6 | 74.0 | 30 | 12 | 110 | 33 | 106 | 44 | 62 | 72 |
| 32 | 25 | 68 | M6 | 80.0 | 36 | 12 | 123 | 36 | 106 | 44 | 62 | 79 |
| 40 | 45 | 84 | M8 | 95.0 | 44 | 15 | 146 | 43 | 131 | 57 | 74 | 94 |
| 50 | 45 | 97 | M8 | 101.5 | 51 | 15 | 157 | 45 | 131 | 57 | 74 | 95 |
| 63 | 45 | 124 | M8 | 116.5 | 64 | 15 | 183 | 51 | 152 | 66 | 86 | 107 |
| 75 | 70 | 166 | M8 | 169.0 | 85 | 15 | 233 | 68 | 270 | 64 | 205 | 144 |
| 90 | 120 | 200 | M8 | 180.0 | 105 | 15 | 254 | 71 | 270 | 64 | 205 | 151 |
| 110 | 120 | 238 | M12 | 194.0 | 123 | 22 | 301 | 82 | 326 | 71 | 255 | 174 |



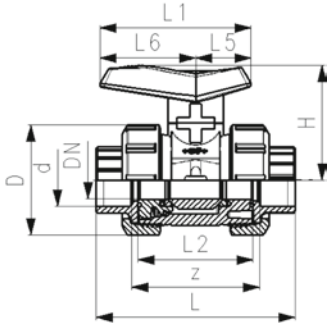
## Ball valve type 542 PVC-U
## With cemented socket (metric)
## With PTFE ball seal

**Model:**

- For easy installation and removal
- Ball seat PTFE/ red lever

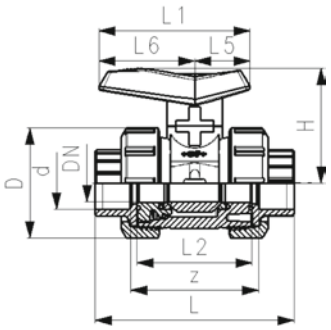
**Option:**

- Individual configuration of the valve possible
- Assembling of a valve tag possible




| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | ⅜ | 16 | 71 | **161 542 001** | 0.148 | **161 542 011** | 0.148 |
| 20 | 15 | ½ | 16 | 185 | **161 542 002** | 0.150 | **161 542 012** | 0.150 |
| 25 | 20 | ¾ | 16 | 350 | **161 542 003** | 0.233 | **161 542 013** | 0.233 |
| 32 | 25 | 1 | 16 | 700 | **161 542 004** | 0.336 | **161 542 014** | 0.336 |
| 40 | 32 | 1 ¼ | 16 | 1000 | **161 542 005** | 0.600 | **161 542 015** | 0.600 |
| 50 | 40 | 1 ½ | 16 | 1600 | **161 542 006** | 0.830 | **161 542 016** | 0.830 |
| 63 | 50 | 2 | 16 | 3100 | **161 542 007** | 1.523 | **161 542 017** | 1.523 |

table continued on the next page




| d (mm) | D (mm) | H (mm) | L (mm) | L1 (mm) | L2 (mm) | L5 (mm) | L6 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 54 | 92 | 72 | 56 | 26 | 46 | 64 |
| 20 | 50 | 54 | 95 | 72 | 56 | 26 | 46 | 63 |
| 25 | 58 | 66 | 110 | 93 | 65 | 34 | 59 | 73 |
| 32 | 68 | 71 | 124 | 93 | 71 | 34 | 59 | 79 |
| 40 | 84 | 85 | 147 | 110 | 85 | 41 | 69 | 94 |
| 50 | 97 | 92 | 157 | 110 | 89 | 41 | 69 | 95 |
| 63 | 124 | 108 | 184 | 128 | 101 | 49 | 79 | 108 |



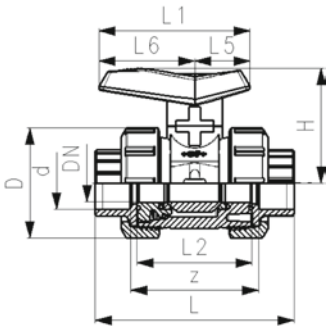
## Ball valve type 542 PVC-C
## With cemented socket (metric)
## With PTFE ball seal

**Model:**

- For easy installation and removal
- Ball seat PTFE/ red lever

**Option:**

- Individual configuration of the valve possible
- Assembling of a valve tag possible




| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | ⅜ | 16 | 71 | **163 542 001** | 0.160 | **163 542 011** | 0.160 |
| 20 | 15 | ½ | 16 | 185 | **163 542 002** | 0.163 | **163 542 012** | 0.163 |
| 25 | 20 | ¾ | 16 | 350 | **163 542 003** | 0.252 | **163 542 013** | 0.252 |
| 32 | 25 | 1 | 16 | 700 | **163 542 004** | 0.362 | **163 542 014** | 0.362 |
| 40 | 32 | 1 ¼ | 16 | 1000 | **163 542 005** | 0.638 | **163 542 015** | 0.638 |
| 50 | 40 | 1 ½ | 16 | 1600 | **163 542 006** | 0.891 | **163 542 016** | 0.891 |
| 63 | 50 | 2 | 16 | 3100 | **163 542 007** | 1.644 | **163 542 017** | 1.644 |

| d (mm) | D (mm) | H (mm) | L (mm) | L1 (mm) | L2 (mm) | L5 (mm) | L6 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 54 | 92 | 72 | 56 | 26 | 46 | 64 |
| 20 | 50 | 54 | 95 | 72 | 56 | 26 | 46 | 63 |
| 25 | 58 | 66 | 110 | 93 | 65 | 34 | 59 | 73 |
| 32 | 68 | 71 | 124 | 93 | 71 | 34 | 59 | 79 |
| 40 | 84 | 85 | 147 | 110 | 85 | 41 | 69 | 94 |
| 50 | 97 | 92 | 157 | 110 | 89 | 41 | 69 | 95 |
| 63 | 124 | 108 | 184 | 128 | 101 | 49 | 79 | 108 |



## Transparent lever clip for ball valve labelling

**Option:**

- Component for ball valve Type 546 Pro, 543 Pro, 523 Pro
- Material: SAN
- UV-, weather- and chemical resistant
- Allows valve marking in conjunction with perforated printing sheets
- Perforated printing sheets are not included (depending on dimension see 198 807 231 - 198807 236)

| Inch (inch) | d-d (mm) | DN-DN (mm) | Code | Quantity |
|---|---|---|---|---|
| ⅜ - ½ | 16 - 20 | 10 - 15 | **198 807 221** | 10 pc's |
| ¾ - 1 | 25 - 32 | 20 - 25 | **198 807 222** | 10 pc's |
| 1 ¼ - 1 ½ | 40 - 50 | 32 - 40 | **198 807 223** | 5 pc's |
| 2 | 63 | 50 | **198 807 224** | 5 pc's |
| 2 ½ - 3 | 75 - 90 | 65 - 80 | **198 807 225** | 5 pc's |
| 4 | 110 | 100 | **198 807 226** | 5 pc's |



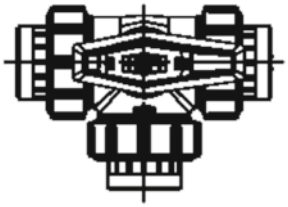
## Printing sheets for ball valve labelling

**Option:**

- Component for ball valve Type 546 Pro, 543 Pro, 523 Pro
- Material: DIN A4 Polymer-sheet
- UV-, weather- and chemical resistant
- Allows valve marking in conjunction with transparent lever clip
- Can be labelled with laser printers or by hand
- Transparent lever clip is not included (depending on dimension see 198 807 221 - 198 807 226)

| Inch (inch) | d-d (mm) | DN-DN (mm) | Code | Quantity |
|---|---|---|---|---|
| ⅜ - ½ | 16 - 20 | 10 - 15 | **198 807 231** | 25 Sheets with each 48 Labels |
| ¾ - 1 | 25 - 32 | 20 - 25 | **198 807 232** | 25 Sheets with each 24 Labels |
| 1 ¼ - 1 ½ | 40 - 50 | 32 - 40 | **198 807 233** | 25 Sheets with each 18 Labels |
| 2 | 63 | 50 | **198 807 234** | 25 Sheets with each 11 Labels |
| 2 ½ - 3 | 75 - 90 | 65 - 80 | **198 807 235** | 25 Sheets with each 6 Labels |
| 4 | 110 | 100 | **198 807 236** | 25 Sheets with each 4 Labels |
| ⅜ - ½ | 16 - 20 | 10 - 15 | **198 807 241** | 100 Sheets with each 48 Labels |
| ¾ - 1 | 25 - 32 | 20 - 25 | **198 807 242** | 100 Sheets with each 24 Labels |
| 1 ¼ - 1 ½ | 40 - 50 | 32 - 40 | **198 807 243** | 100 Sheets with each 18 Labels |
| 2 | 63 | 50 | **198 807 244** | 100 Sheets with each 11 Labels |





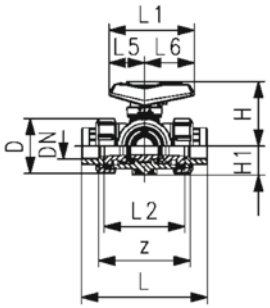
## PROGEF Standard 3-Way ball valve type 543 Pro
## Horizontal/L-port
## With threaded sockets reinforced NPT

**Model:**

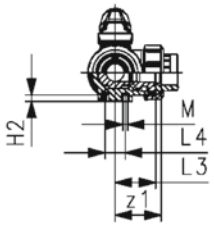
- Material: PP-H
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

**Option:**

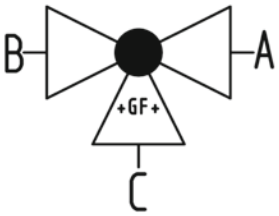
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible




| d (mm) | DN (mm) | Thread Type | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | NPT | ⅜ | 10 | 50 | **167 543 161** | 0.161 | **167 543 171** | 0.161 |
| 20 | 15 | NPT | ½ | 10 | 75 | **167 543 162** | 0.165 | **167 543 172** | 0.165 |
| 25 | 20 | NPT | ¾ | 10 | 150 | **167 543 163** | 0.237 | **167 543 173** | 0.237 |
| 32 | 25 | NPT | 1 | 10 | 280 | **167 543 164** | 0.361 | **167 543 174** | 0.361 |
| 40 | 32 | NPT | 1 ¼ | 10 | 480 | **167 543 165** | 0.616 | **167 543 175** | 0.616 |
| 50 | 40 | NPT | 1 ½ | 10 | 620 | **167 543 166** | 0.912 | **167 543 176** | 0.912 |
| 63 | 50 | NPT | 2 | 10 | 1230 | **167 543 167** | 1.773 | **167 543 177** | 1.773 |




| d (mm) | D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | z (mm) | z1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 61 | 28 | 8 | 112 | 82 | 72 | 36 | 25 | 35 | 47 | 6 | 86 | 43 |
| 20 | 50 | 61 | 28 | 8 | 114 | 82 | 72 | 36 | 25 | 35 | 47 | 6 | 80 | 40 |
| 25 | 58 | 74 | 32 | 8 | 131 | 106 | 85 | 43 | 25 | 44 | 62 | 6 | 95 | 48 |
| 32 | 68 | 80 | 36 | 8 | 154 | 106 | 98 | 49 | 25 | 44 | 62 | 6 | 110 | 55 |
| 40 | 84 | 95 | 45 | 9 | 180 | 131 | 118 | 59 | 45 | 57 | 74 | 8 | 132 | 66 |
| 50 | 97 | 102 | 51 | 9 | 203 | 131 | 135 | 68 | 45 | 57 | 74 | 8 | 157 | 79 |
| 63 | 124 | 117 | 65 | 9 | 258 | 152 | 176 | 88 | 45 | 66 | 86 | 8 | 210 | 105 |









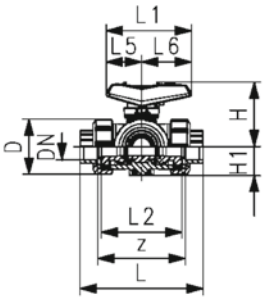

## PROGEF Plus 3-Way ball valve type 543 Pro silicone free
## Horizontal/L-port
## With fusion sockets metric (US version)

**Model:**

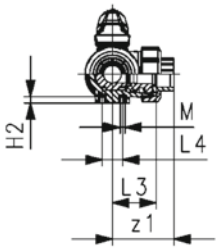
- Material: PP-H / silicone free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

**Option:**

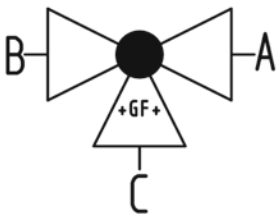
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible




| d (mm) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **167 543 661** | 0.161 | **167 543 671** | 0.161 |
| 20 | 15 | 10 | 75 | **167 543 662** | 0.165 | **167 543 672** | 0.165 |
| 25 | 20 | 10 | 150 | **167 543 663** | 0.237 | **167 543 673** | 0.237 |
| 32 | 25 | 10 | 280 | **167 543 664** | 0.361 | **167 543 674** | 0.361 |
| 40 | 32 | 10 | 480 | **167 543 665** | 0.616 | **167 543 675** | 0.616 |
| 50 | 40 | 10 | 620 | **167 543 666** | 0.912 | **167 543 676** | 0.912 |
| 63 | 50 | 10 | 1230 | **167 543 667** | 1.773 | **167 543 677** | 1.773 |

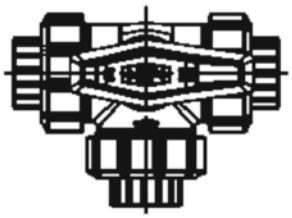



| d (mm) | D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | z (mm) | z1 (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 61 | 28 | 8 | 110 | 82 | 72 | 36 | 25 | 35 | 47 | 6 | 82 | 41 | ⅜ |
| 20 | 50 | 61 | 28 | 8 | 112 | 82 | 72 | 36 | 25 | 35 | 47 | 6 | 82 | 41 | ½ |
| 25 | 58 | 74 | 32 | 8 | 129 | 106 | 85 | 43 | 25 | 44 | 62 | 6 | 97 | 49 | ¾ |
| 32 | 68 | 80 | 36 | 8 | 146 | 106 | 98 | 49 | 25 | 44 | 62 | 6 | 110 | 55 | 1 |
| 40 | 84 | 95 | 45 | 9 | 170 | 131 | 118 | 59 | 45 | 57 | 74 | 8 | 132 | 66 | 1 ¼ |
| 50 | 97 | 102 | 51 | 9 | 193 | 131 | 135 | 68 | 45 | 57 | 74 | 8 | 151 | 76 | 1 ½ |
| 63 | 124 | 117 | 65 | 9 | 244 | 152 | 176 | 88 | 45 | 66 | 86 | 8 | 188 | 94 | 2 |







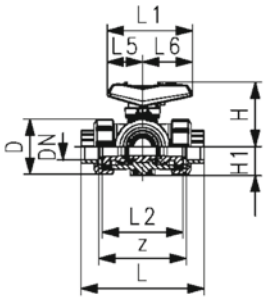
## PROGEF Plus 3-Way ball valve type 543 Pro silicone free
## Horizontal/L-port
## With fusion sockets metric

**Model:**

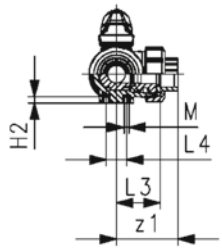
- Material: PP-H / silicone free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PVDF
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

**Option:**

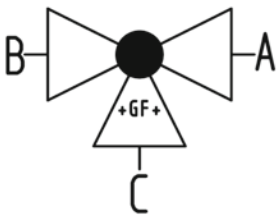
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible




| d (mm) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **167 543 401** | 0.161 | **167 543 411** | 0.161 |
| 20 | 15 | 10 | 75 | **167 543 402** | 0.165 | **167 543 412** | 0.172 |
| 25 | 20 | 10 | 150 | **167 543 403** | 0.237 | **167 543 413** | 0.237 |
| 32 | 25 | 10 | 280 | **167 543 404** | 0.361 | **167 543 414** | 0.361 |
| 40 | 32 | 10 | 480 | **167 543 405** | 0.616 | **167 543 415** | 0.616 |
| 50 | 40 | 10 | 620 | **167 543 406** | 0.912 | **167 543 416** | 0.912 |
| 63 | 50 | 10 | 1230 | **167 543 407** | 1.773 | **167 543 417** | 1.773 |




| d (mm) | D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | z (mm) | z1 (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 61 | 28 | 8 | 110 | 82 | 72 | 36 | 25 | 35 | 47 | 6 | 82 | 41 | ⅜ |
| 20 | 50 | 61 | 28 | 8 | 112 | 82 | 72 | 36 | 25 | 35 | 47 | 6 | 82 | 41 | ½ |
| 25 | 58 | 74 | 32 | 8 | 129 | 106 | 85 | 43 | 25 | 44 | 62 | 6 | 97 | 49 | ¾ |
| 32 | 68 | 80 | 36 | 8 | 146 | 106 | 98 | 49 | 25 | 44 | 62 | 6 | 110 | 55 | 1 |
| 40 | 84 | 95 | 45 | 9 | 170 | 131 | 118 | 59 | 45 | 57 | 74 | 8 | 132 | 66 | 1 ¼ |
| 50 | 97 | 102 | 51 | 9 | 193 | 131 | 135 | 68 | 45 | 57 | 74 | 8 | 151 | 76 | 1 ½ |
| 63 | 124 | 117 | 65 | 9 | 244 | 152 | 176 | 88 | 45 | 66 | 86 | 8 | 188 | 94 | 2 |









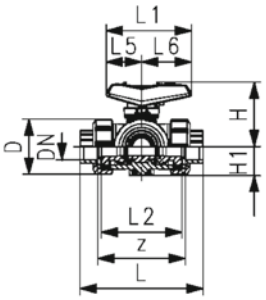

## PROGEF Plus 3-Way ball valve type 543 Pro oil free
## Horizontal/L-port
## With fusion sockets metric

**Model:**

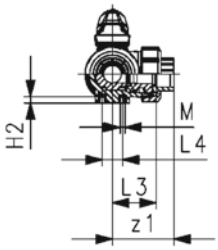
- Material: PP-H/oil free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

**Option:**

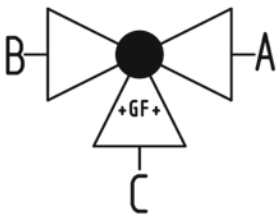
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible




| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | ⅜ | 10 | 50 | **167 543 181** | 0.161 | **167 543 191** | 0.161 |
| 20 | 15 | ½ | 10 | 75 | **167 543 182** | 0.165 | **167 543 192** | 0.165 |
| 25 | 20 | ¾ | 10 | 150 | **167 543 183** | 0.237 | **167 543 193** | 0.237 |
| 32 | 25 | | 10 | 280 | **167 543 184** | 0.361 | **167 543 194** | 0.361 |
| 40 | 32 | | 10 | 480 | **167 543 185** | 0.616 | **167 543 195** | 0.616 |
| 50 | 40 | 1 ½ | 10 | 620 | **167 543 186** | 0.912 | **167 543 196** | 0.912 |
| 63 | 50 | 2 | 10 | 1230 | **167 543 187** | 1.773 | **167 543 197** | 1.773 |

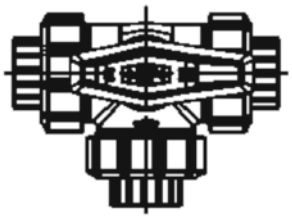



| d (mm) | D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | z (mm) | z1 (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 61 | 28 | 8 | 110 | 82 | 72 | 36 | 25 | 35 | 47 | 6 | 82 | 41 | ⅜ |
| 20 | 50 | 61 | 28 | 8 | 112 | 82 | 72 | 36 | 25 | 35 | 47 | 6 | 82 | 41 | ½ |
| 25 | 58 | 74 | 32 | 8 | 129 | 106 | 85 | 43 | 25 | 44 | 62 | 6 | 97 | 49 | ¾ |
| 32 | 68 | 80 | 36 | 8 | 146 | 106 | 98 | 49 | 25 | 44 | 62 | 6 | 110 | 55 | 1 |
| 40 | 84 | 95 | 45 | 9 | 170 | 131 | 118 | 59 | 45 | 57 | 74 | 8 | 132 | 66 | 1 ¼ |
| 50 | 97 | 102 | 51 | 9 | 193 | 131 | 135 | 68 | 45 | 57 | 74 | 8 | 151 | 76 | 1 ½ |
| 63 | 124 | 117 | 65 | 9 | 244 | 152 | 176 | 88 | 45 | 66 | 86 | 8 | 188 | 94 | 2 |







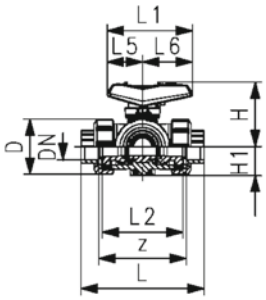
## PROGEF Standard 3-Way ball valve type 543 Pro
## Horizontal/L-port
## With fusion sockets metric

**Model:**

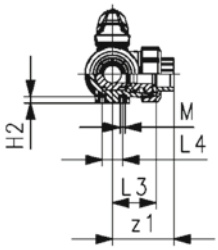
- Lockable lever as standard (DN10-DN50)
- Material: PP-H
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

**Option:**

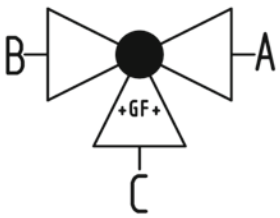
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible




| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | ⅜ | 10 | 50 | **167 543 001** | 0.161 | **167 543 011** | 0.161 |
| 20 | 15 | ½ | 10 | 75 | **167 543 002** | 0.165 | **167 543 012** | 0.165 |
| 25 | 20 | ¾ | 10 | 150 | **167 543 003** | 0.237 | **167 543 013** | 0.237 |
| 32 | 25 | 1 | 10 | 280 | **167 543 004** | 0.374 | **167 543 014** | 0.361 |
| 40 | 32 | 1 ¼ | 10 | 480 | **167 543 005** | 0.616 | **167 543 015** | 0.616 |
| 50 | 40 | 1 ½ | 10 | 620 | **167 543 006** | 0.950 | **167 543 016** | 0.912 |
| 63 | 50 | 2 | 10 | 1230 | **167 543 007** | 1.843 | **167 543 017** | 1.882 |



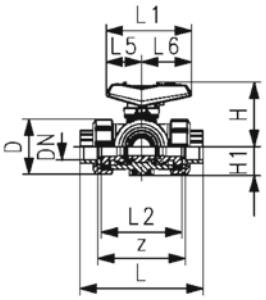

| d (mm) | D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | z (mm) | z1 (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 61 | 28 | 8 | 110 | 82 | 72 | 36 | 25 | 35 | 47 | 6 | 82 | 41 | ⅜ |
| 20 | 50 | 61 | 27 | 8 | 112 | 82 | 72 | 36 | 25 | 35 | 47 | 6 | 82 | 41 | ½ |
| 25 | 58 | 74 | 30 | 8 | 129 | 106 | 85 | 43 | 25 | 44 | 62 | 6 | 97 | 49 | ¾ |
| 32 | 68 | 80 | 36 | 8 | 146 | 106 | 98 | 49 | 25 | 44 | 62 | 6 | 110 | 55 | 1 |
| 40 | 84 | 95 | 44 | 9 | 170 | 131 | 118 | 59 | 45 | 57 | 74 | 8 | 132 | 66 | 1 ¼ |
| 50 | 97 | 102 | 51 | 9 | 193 | 131 | 135 | 68 | 45 | 57 | 74 | 8 | 151 | 76 | 1 ½ |
| 63 | 124 | 117 | 64 | 9 | 244 | 152 | 176 | 88 | 45 | 66 | 86 | 8 | 188 | 94 | 2 |

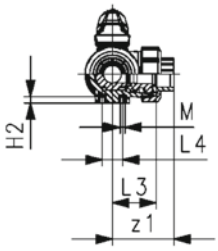


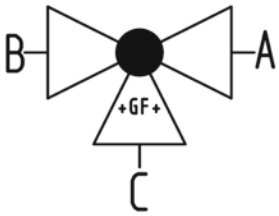










## 3-Way ball valve type 543 Pro ABS
## Horizontal/L-port
## With solvent cement sockets BS

**Model:**

- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

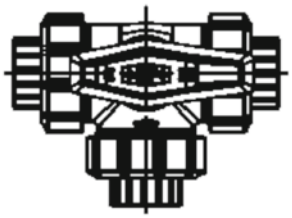
**Option:**

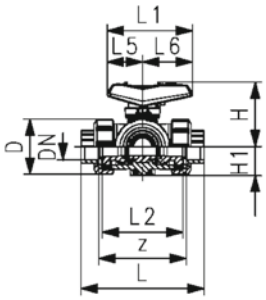
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

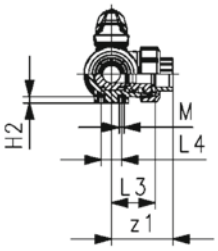
| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 16 | 10 | ⅜ | 10 | 50 | **169 543 061** | 0.187 |
| 20 | 15 | ½ | 10 | 75 | **169 543 062** | 0.181 |
| 25 | 20 | ¾ | 10 | 150 | **169 543 063** | 0.263 |
| | 25 | 1 | 10 | 280 | **169 543 064** | 0.402 |
| 40 | 32 | 1 ¼ | 10 | 480 | **169 543 065** | 0.716 |
| 50 | 40 | 1 ½ | 10 | 620 | **169 543 066** | 1.061 |
| 63 | 50 | 2 | 10 | 1230 | **169 543 067** | 2.064 |

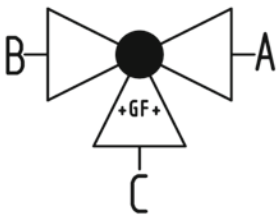
| D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | z (mm) | z1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 61 | 28 | 8 | 109 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 77 | 38 |
| 50 | 61 | 28 | 8 | 112 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 77 | 38 |
| 58 | 74 | 32 | 8 | 131 | 106 | 86 | 43 | 25 | 44 | 62 | 6 | 90 | 45 |
| 68 | 80 | 36 | 8 | 151 | 106 | 99 | 50 | 25 | 44 | 62 | 6 | 103 | 52 |
| 84 | 95 | 45 | 9 | 181 | 131 | 120 | 60 | 45 | 57 | 74 | 8 | 124 | 62 |
| 97 | 102 | 51 | 9 | 205 | 131 | 137 | 69 | 45 | 57 | 74 | 8 | 145 | 73 |
| 124 | 117 | 65 | 9 | 261 | 152 | 179 | 89 | 45 | 66 | 86 | 8 | 189 | 94 |











## 3-Way ball valve type 543 Pro ABS
## Horizontal/L-port
## With threaded sockets Rp

**Model:**

- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

**Option:**

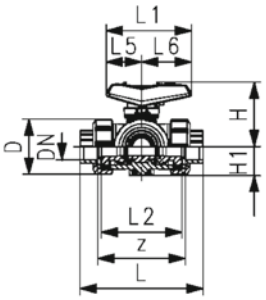
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

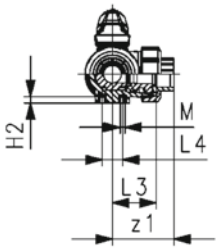
| d (mm) | DN (mm) | Thread Type | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 16 | 10 | Rp | ⅜ | 10 | 50 | **169 543 041** | 0.187 |
| 20 | 15 | Rp | ½ | 10 | 75 | **169 543 042** | 0.192 |
| 25 | 20 | Rp | ¾ | 10 | 150 | **169 543 043** | 0.276 |
|  | 25 | Rp |  | 10 | 280 | **169 543 044** | 0.420 |
| 40 | 32 | Rp | 1 ¼ | 10 | 480 | **169 543 045** | 0.716 |
| 50 | 40 | Rp | 1 ½ | 10 | 620 | **169 543 046** | 1.061 |
| 63 | 50 | Rp | 2 | 10 | 1230 | **169 543 047** | 2.064 |

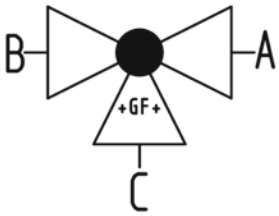
| D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | z (mm) | z1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 61 | 28 | 8 | 113 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 87 | 43 |
| 50 | 61 | 28 | 8 | 117 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 85 | 42 |
| 58 | 74 | 32 | 8 | 135 | 106 | 86 | 43 | 25 | 44 | 62 | 6 | 100 | 50 |
| 68 | 80 | 36 | 8 | 155 | 106 | 99 | 50 | 25 | 44 | 62 | 6 | 113 | 57 |
| 84 | 95 | 45 | 9 | 179 | 131 | 120 | 60 | 45 | 57 | 74 | 8 | 134 | 67 |
| 97 | 102 | 51 | 9 | 201 | 131 | 137 | 69 | 45 | 57 | 74 | 8 | 155 | 78 |
| 124 | 117 | 65 | 9 | 255 | 152 | 179 | 89 | 45 | 66 | 86 | 8 | 199 | 99 |











## 3-Way ball valve type 543 Pro ABS
## Horizontal/L-port
## With solvent cement sockets metric

**Model:**

- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

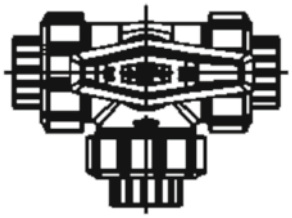
**Option:**

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 16 | 10 | ⅜ | 10 | 50 | **169 543 001** | 0.187 |
| 20 | 15 | ½ | 10 | 75 | **169 543 002** | 0.174 |
| 25 | 20 | ¾ | 10 | 150 | **169 543 003** | 0.276 |
| 32 | 25 | | 10 | 280 | **169 543 004** | 0.403 |
| 40 | 32 | 1 ¼ | 10 | 480 | **169 543 005** | 0.707 |
| 50 | 40 | 1 ½ | 10 | 620 | **169 543 006** | 1.059 |
| 63 | 50 | 2 | 10 | 1230 | **169 543 007** | 2.062 |

| d (mm) | D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | z (mm) | z1 (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 61 | 28 | 8 | 109 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 81 | 40 | ⅜ |
| 20 | 50 | 61 | 28 | 8 | 112 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 81 | 40 | ½ |
| 25 | 58 | 74 | 32 | 8 | 131 | 106 | 86 | 43 | 25 | 44 | 62 | 6 | 94 | 47 | ¾ |
| 32 | 68 | 80 | 36 | 8 | 151 | 106 | 99 | 50 | 25 | 44 | 62 | 6 | 107 | 54 | 1 |
| 40 | 84 | 95 | 45 | 9 | 181 | 131 | 120 | 60 | 45 | 57 | 74 | 8 | 130 | 65 | 1 ¼ |
| 50 | 97 | 102 | 51 | 9 | 205 | 131 | 137 | 69 | 45 | 57 | 74 | 8 | 143 | 72 | 1 ½ |
| 63 | 124 | 117 | 65 | 9 | 261 | 152 | 179 | 89 | 45 | 66 | 86 | 8 | 185 | 92 | 2 |





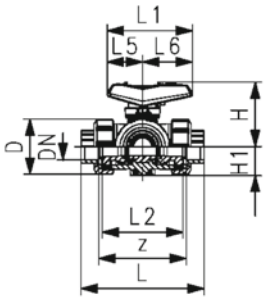
## 3-Way Ball Valve Type 543 Pro PVC-C silicone free
## Horizontal/L-port
## With solvent cement sockets ASTM

**Model:**

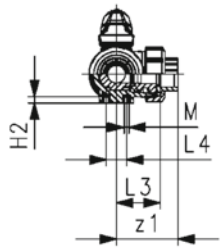
- Lockable lever as standard (DN10-DN50)
- Silicone free/paint-compatible
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

**Option:**

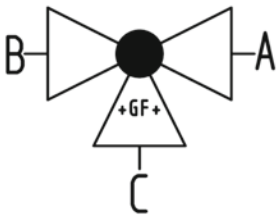
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible




| Size (inch) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 50 | **163 543 161** | 0.265 | **163 543 171** | 0.265 |
| ½ | 15 | 10 | 75 | **163 543 162** | 0.272 | **163 543 172** | 0.272 |
| ¾ | 20 | 10 | 150 | **163 543 163** | 0.391 | **163 543 173** | 0.391 |
| 1 | 25 | 10 | 280 | **163 543 164** | 0.598 | **163 543 174** | 0.598 |
| 1 ¼ | 32 | 10 | 480 | **163 543 165** | 1.018 | **163 543 175** | 1.018 |
| 1 ½ | 40 | 10 | 620 | **163 543 166** | 1.509 | **163 543 176** | 1.509 |
| 2 | 50 | 10 | 1230 | **163 543 167** | 2.938 | **163 543 177** | 2.938 |



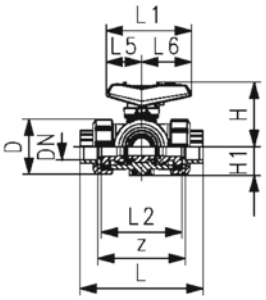

| Size (inch) | D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | z (mm) | z1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 61 | 28 | 8 | 123 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 85 | 42 |
| ½ | 50 | 61 | 28 | 8 | 122 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 77 | 38 |
| ¾ | 58 | 74 | 32 | 8 | 141 | 106 | 86 | 43 | 25 | 44 | 62 | 6 | 92 | 46 |
| 1 | 68 | 80 | 36 | 8 | 161 | 106 | 99 | 50 | 25 | 44 | 62 | 6 | 105 | 53 |
| 1 ¼ | 84 | 95 | 45 | 9 | 187 | 131 | 120 | 60 | 45 | 57 | 74 | 8 | 126 | 63 |
| 1 ½ | 97 | 102 | 51 | 9 | 213 | 131 | 137 | 69 | 45 | 57 | 74 | 8 | 143 | 72 |
| 2 | 124 | 117 | 65 | 9 | 261 | 152 | 179 | 89 | 45 | 66 | 86 | 8 | 185 | 92 |

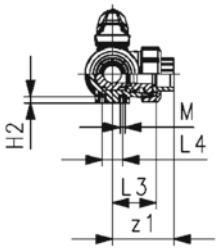


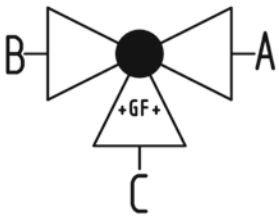










## 3-Way ball valve type 543 Pro PVC-C
## Horizontal/L-port
## With solvent cement sockets JIS

**Model:**

- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

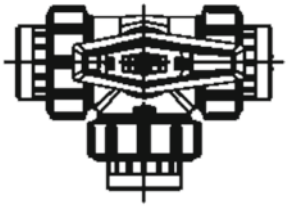
**Option:**

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 75 | **163 543 122** | 0.272 | **163 543 132** | 0.272 |
| 25 | 20 | ¾ | 10 | 150 | **163 543 123** | 0.391 | **163 543 133** | 0.391 |
| 32 | 25 | 1 | 10 | 280 | **163 543 124** | 0.598 | **163 543 134** | 0.598 |
| 40 | 32 | 1 ¼ | 10 | 480 | **163 543 125** | 1.018 | **163 543 135** | 1.018 |
| 50 | 40 | 1 ½ | 10 | 620 | **163 543 126** | 1.509 | **163 543 136** | 1.509 |
| 63 | 50 | 2 | 10 | 1230 | **163 543 127** | 2.938 | **163 543 137** | 2.938 |

| D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | z (mm) | z1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 61 | 28 | 8 | 112 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 81 | 40 |
| 58 | 74 | 32 | 8 | 131 | 106 | 86 | 43 | 25 | 44 | 62 | 6 | 94 | 47 |
| 68 | 80 | 36 | 8 | 151 | 106 | 99 | 50 | 25 | 44 | 62 | 6 | 107 | 54 |
| 84 | 95 | 45 | 9 | 181 | 131 | 120 | 60 | 45 | 57 | 74 | 8 | 130 | 65 |
| 97 | 102 | 51 | 9 | 205 | 131 | 137 | 69 | 45 | 57 | 74 | 8 | 143 | 72 |
| 124 | 117 | 65 | 9 | 261 | 152 | 179 | 89 | 45 | 66 | 86 | 8 | 185 | 92 |





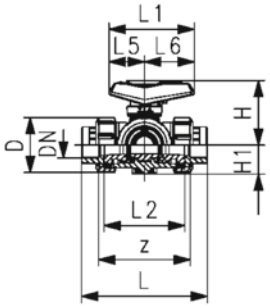
## 3-Way ball valve type 543 Pro PVC-U
## Horizontal/L-port
## With threaded sockets Rp

**Model:**

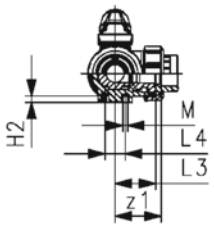
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

**Option:**

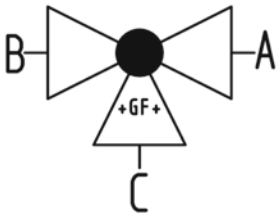
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible




| d (mm) | DN (mm) | Thread Type | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | Rp | ⅜ | 10 | 50 | **161 543 041** | 0.245 | **161 543 051** | 0.245 |
| 20 | 15 | Rp | ½ | 10 | 75 | **161 543 042** | 0.251 | **161 543 052** | 0.251 |
| 25 | 20 | Rp | ¾ | 10 | 150 | **161 543 043** | 0.361 | **161 543 053** | 0.361 |
| 32 | 25 | Rp | 1 | 10 | 280 | **161 543 044** | 0.551 | **161 543 054** | 0.551 |
| 40 | 32 | Rp | 1 ¼ | 10 | 480 | **161 543 045** | 0.938 | **161 543 055** | 0.938 |
| 50 | 40 | Rp | 1 ½ | 10 | 620 | **161 543 046** | 1.390 | **161 543 056** | 1.390 |
| 63 | 50 | Rp | 2 | 10 | 1230 | **161 543 047** | 2.705 | **161 543 057** | 2.705 |




| D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | z (mm) | z1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 61 | 28 | 8 | 113 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 87 | 43 |
| 50 | 61 | 28 | 8 | 117 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 85 | 42 |
| 58 | 74 | 32 | 8 | 135 | 106 | 86 | 43 | 25 | 44 | 62 | 6 | 100 | 50 |
| 68 | 80 | 36 | 8 | 155 | 106 | 99 | 50 | 25 | 44 | 62 | 6 | 113 | 57 |
| 84 | 95 | 45 | 9 | 179 | 131 | 120 | 60 | 45 | 57 | 74 | 8 | 134 | 67 |
| 97 | 102 | 51 | 9 | 201 | 131 | 137 | 69 | 45 | 57 | 74 | 8 | 155 | 78 |
| 124 | 117 | 65 | 9 | 255 | 152 | 179 | 89 | 45 | 66 | 86 | 8 | 199 | 99 |









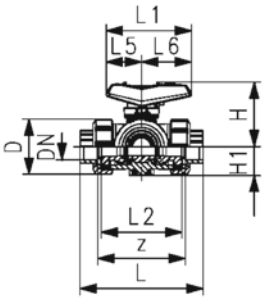

## 3-Way ball valve type 543 Pro PVC-U
## Horizontal/L-port
## With solvent cement sockets metric

**Model:**

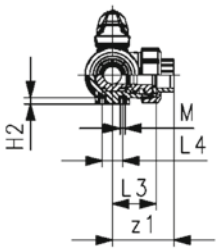
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

**Option:**

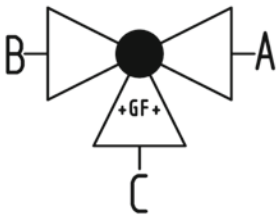
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible




| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | ⅜ | 10 | 50 | **161 543 001** | 0.245 | **161 543 011** | 0.245 |
| 20 | 15 | ½ | 10 | 75 | **161 543 002** | 0.230 | **161 543 012** | 0.251 |
| 25 | 20 | ¾ | 10 | 150 | **161 543 003** | 0.339 | **161 543 013** | 0.361 |
| 32 | 25 | 1 | 10 | 280 | **161 543 004** | 0.526 | **161 543 014** | 0.551 |
| 40 | 32 | 1 ¼ | 10 | 480 | **161 543 005** | 0.912 | **161 543 015** | 0.938 |
| 50 | 40 | 1 ½ | 10 | 620 | **161 543 006** | 1.600 | **161 543 016** | 1.388 |
| 63 | 50 | 2 | 10 | 1230 | **161 543 007** | 2.681 | **161 543 017** | 2.705 |

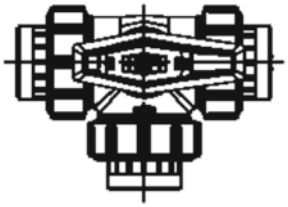



| d (mm) | D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | z (mm) | z1 (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 61 | 28 | 8 | 109 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 81 | 40 | ⅜ |
| 20 | 50 | 61 | 28 | 8 | 112 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 81 | 40 | ½ |
| 25 | 58 | 74 | 32 | 8 | 131 | 106 | 86 | 43 | 25 | 44 | 62 | 6 | 94 | 47 | ¾ |
| 32 | 68 | 80 | 36 | 8 | 151 | 106 | 99 | 50 | 25 | 44 | 62 | 6 | 107 | 54 | 1 |
| 40 | 84 | 95 | 45 | 9 | 181 | 131 | 120 | 60 | 45 | 57 | 74 | 8 | 130 | 65 | 1 ¼ |
| 50 | 97 | 102 | 51 | 9 | 205 | 131 | 137 | 69 | 45 | 57 | 74 | 8 | 143 | 72 | 1 ½ |
| 63 | 124 | 117 | 65 | 9 | 261 | 152 | 179 | 89 | 45 | 66 | 86 | 8 | 185 | 92 | 2 |







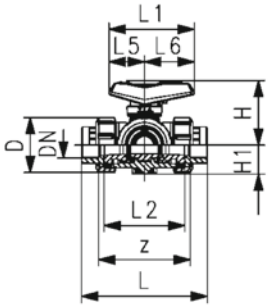
## 3-Way ball valve type 543 Pro PVC-C
## Horizontal/L-port
## With threaded sockets NPT

**Model:**

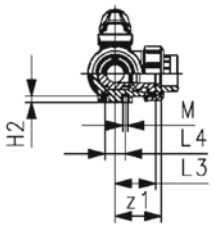
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

**Option:**

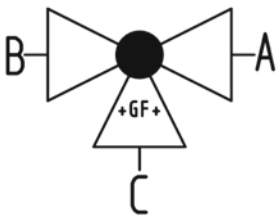
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible




| d (mm) | DN (mm) | Thread Type | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | NPT | ⅜ | 10 | 50 | **163 543 101** | 0.265 | **163 543 111** | 0.265 |
| 20 | 15 | NPT | ½ | 10 | 75 | **163 543 102** | 0.272 | **163 543 112** | 0.272 |
| 25 | 20 | NPT | ¾ | 10 | 150 | **163 543 103** | 0.391 | **163 543 113** | 0.391 |
| 32 | 25 | NPT | 1 | 10 | 280 | **163 543 104** | 0.598 | **163 543 114** | 0.598 |
| 40 | 32 | NPT | 1 ¼ | 10 | 480 | **163 543 105** | 1.018 | **163 543 115** | 1.018 |
| 50 | 40 | NPT | 1 ½ | 10 | 620 | **163 543 106** | 1.509 | **163 543 116** | 1.509 |
| 63 | 50 | NPT | 2 | 10 | 1230 | **163 543 107** | 2.938 | **163 543 117** | 2.938 |



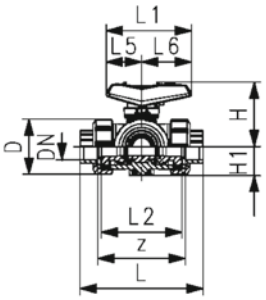

| D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | z (mm) | z1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 61 | 28 | 8 | 115 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 87 | 43 |
| 50 | 61 | 28 | 8 | 114 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 81 | 40 |
| 58 | 74 | 32 | 8 | 131 | 106 | 86 | 43 | 25 | 44 | 62 | 6 | 96 | 48 |
| 68 | 80 | 36 | 8 | 155 | 106 | 99 | 50 | 25 | 44 | 62 | 6 | 111 | 56 |
| 84 | 95 | 45 | 9 | 181 | 131 | 120 | 60 | 45 | 57 | 74 | 8 | 134 | 67 |
| 97 | 102 | 51 | 9 | 205 | 131 | 137 | 69 | 45 | 57 | 74 | 8 | 159 | 80 |
| 124 | 117 | 65 | 9 | 261 | 152 | 179 | 89 | 45 | 66 | 86 | 8 | 213 | 106 |

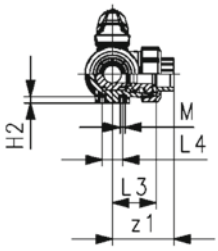


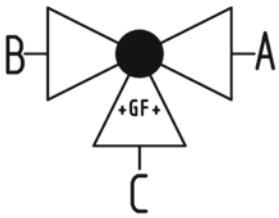










## 3-Way ball valve type 543 Pro PVC-C
## Horizontal/L-port
## With solvent cement sockets ASTM

**Model:**

- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

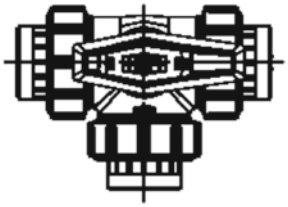
**Option:**

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | ⅜ | 10 | 50 | **163 543 081** | 0.265 | **163 543 091** | 0.265 |
| 20 | 15 | ½ | 10 | 75 | **163 543 082** | 0.272 | **163 543 092** | 0.272 |
| 25 | 20 | ¾ | 10 | 150 | **163 543 083** | 0.391 | **163 543 093** | 0.391 |
| 32 | 25 | 1 | 10 | 280 | **163 543 084** | 0.598 | **163 543 094** | 0.598 |
| 40 | 32 | 1 ¼ | 10 | 480 | **163 543 085** | 1.018 | **163 543 095** | 1.018 |
| 50 | 40 | 1 ½ | 10 | 620 | **163 543 086** | 1.480 | **163 543 096** | 1.496 |
| 63 | 50 | 2 | 10 | 1230 | **163 543 087** | 2.938 | **163 543 097** | 2.938 |

| D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | z (mm) | z1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 61 | 28 | 8 | 123 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 85 | 42 |
| 50 | 61 | 28 | 8 | 122 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 77 | 38 |
| 58 | 74 | 32 | 8 | 141 | 106 | 86 | 43 | 25 | 44 | 62 | 6 | 92 | 46 |
| 68 | 80 | 36 | 8 | 161 | 106 | 99 | 50 | 25 | 44 | 62 | 6 | 105 | 53 |
| 84 | 95 | 45 | 9 | 187 | 131 | 120 | 60 | 45 | 57 | 74 | 8 | 126 | 63 |
| 97 | 102 | 51 | 9 | 213 | 131 | 137 | 69 | 45 | 57 | 74 | 8 | 143 | 72 |
| 124 | 117 | 65 | 9 | 261 | 152 | 179 | 89 | 45 | 66 | 86 | 8 | 185 | 92 |





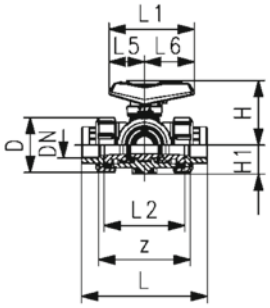
## 3-Way ball valve type 543 Pro PVC-C
## Horizontal/L-port
## With threaded sockets Rp

**Model:**

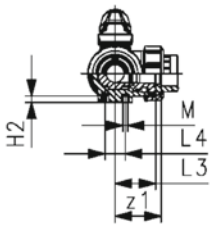
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

**Option:**

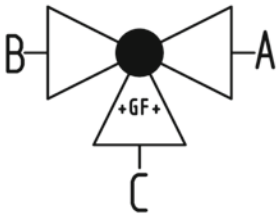
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible




| d (mm) | DN (mm) | Thread Type | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | Rp | ⅜ | 10 | 50 | **163 543 041** | 0.265 | **163 543 051** | 0.265 |
| 20 | 15 | Rp | ½ | 10 | 75 | **163 543 042** | 0.272 | **163 543 052** | 0.272 |
| 25 | 20 | Rp | ¾ | 10 | 150 | **163 543 043** | 0.391 | **163 543 053** | 0.391 |
| 32 | 25 | Rp | 1 | 10 | 280 | **163 543 044** | 0.598 | **163 543 054** | 0.598 |
| 40 | 32 | Rp | 1 ¼ | 10 | 480 | **163 543 045** | 1.018 | **163 543 055** | 1.018 |
| 50 | 40 | Rp | 1 ½ | 10 | 620 | **163 543 046** | 1.509 | **163 543 056** | 1.509 |
| 63 | 50 | Rp | 2 | 10 | 1230 | **163 543 047** | 2.938 | **163 543 057** | 2.938 |



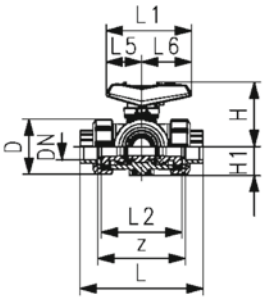

| D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | z (mm) | z1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 61 | 28 | 8 | 113 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 87 | 43 |
| 50 | 61 | 28 | 8 | 116 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 85 | 42 |
| 58 | 74 | 32 | 8 | 135 | 106 | 86 | 43 | 25 | 44 | 62 | 6 | 100 | 50 |
| 68 | 80 | 36 | 8 | 155 | 106 | 99 | 50 | 25 | 44 | 62 | 6 | 113 | 57 |
| 84 | 95 | 45 | 9 | 179 | 131 | 120 | 60 | 45 | 57 | 74 | 8 | 134 | 67 |
| 97 | 102 | 51 | 9 | 201 | 131 | 137 | 69 | 45 | 57 | 74 | 8 | 155 | 78 |
| 124 | 117 | 65 | 9 | 255 | 152 | 179 | 89 | 45 | 66 | 86 | 8 | 199 | 99 |

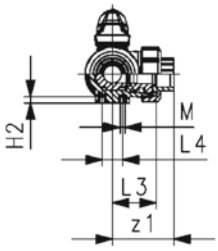


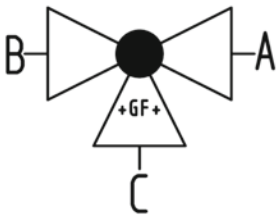










## 3-Way ball valve type 543 Pro PVC-C
## Horizontal/L-port
## With solvent cement sockets metric

**Model:**

- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

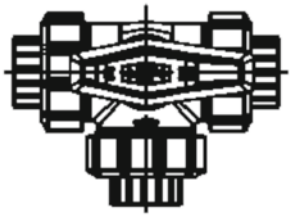
**Option:**

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | ⅜ | 10 | 50 | **163 543 001** | 0.265 | **163 543 011** | 0.265 |
| 20 | 15 | ½ | 10 | 75 | **163 543 002** | 0.272 | **163 543 012** | 0.272 |
| 25 | 20 | ¾ | 10 | 150 | **163 543 003** | 0.391 | **163 543 013** | 0.391 |
| 32 | 25 | 1 | 10 | 280 | **163 543 004** | 0.598 | **163 543 014** | 0.598 |
| 40 | 32 | 1 ¼ | 10 | 480 | **163 543 005** | 1.018 | **163 543 015** | 1.018 |
| 50 | 40 | 1 ½ | 10 | 620 | **163 543 006** | 1.509 | **163 543 016** | 1.509 |
| 63 | 50 | 2 | 10 | 1230 | **163 543 007** | 2.938 | **163 543 017** | 2.938 |

| d (mm) | D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | z (mm) | z1 (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 61 | 28 | 8 | 109 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 81 | 40 | ⅜ |
| 20 | 50 | 61 | 28 | 8 | 112 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 81 | 40 | ½ |
| 25 | 58 | 74 | 32 | 8 | 131 | 106 | 86 | 43 | 25 | 44 | 62 | 6 | 94 | 47 | ¾ |
| 32 | 68 | 80 | 36 | 8 | 151 | 106 | 99 | 50 | 25 | 44 | 62 | 6 | 107 | 54 | 1 |
| 40 | 84 | 95 | 45 | 9 | 181 | 131 | 120 | 60 | 45 | 57 | 74 | 8 | 130 | 65 | 1 ¼ |
| 50 | 97 | 102 | 51 | 9 | 205 | 131 | 137 | 69 | 45 | 57 | 74 | 8 | 143 | 72 | 1 ½ |
| 63 | 124 | 117 | 65 | 9 | 261 | 152 | 179 | 89 | 45 | 66 | 86 | 8 | 185 | 92 | 2 |





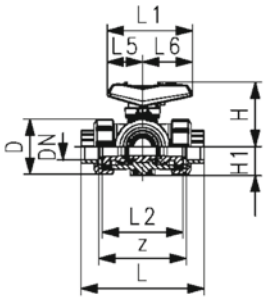
## 3-Way ball valve type 543 Pro PVC-U oil free
## Horizontal/L-port
## With solvent cement sockets JIS

**Model:**

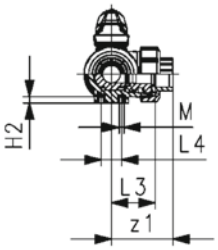
- Oil free
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

**Option:**

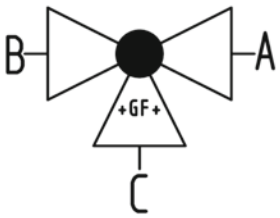
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible




| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 75 | **161 543 842** | 0.228 | **161 543 852** | 0.231 |
| 25 | 20 | ¾ | 10 | 150 | **161 543 843** | 0.361 | **161 543 853** | 0.361 |
| | 25 | 1 | 10 | 280 | **161 543 844** | 0.528 | **161 543 854** | 0.551 |
| | 32 | 1 ¼ | 10 | 480 | **161 543 845** | 0.938 | **161 543 855** | 0.938 |
| 50 | 40 | 1 ½ | 10 | 620 | **161 543 846** | 1.395 | **161 543 856** | 1.390 |
| 63 | 50 | 2 | 10 | 1230 | **161 543 847** | 2.703 | **161 543 857** | 2.705 |



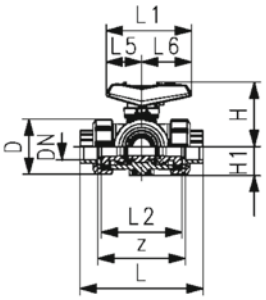

| D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | z (mm) | z1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 61 | 27 | 8 | 112 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 81 | 40 |
| 58 | 74 | 30 | 8 | 131 | 106 | 86 | 43 | 25 | 44 | 62 | 6 | 94 | 47 |
| 68 | 80 | 36 | 8 | 151 | 106 | 99 | 50 | 25 | 44 | 62 | 6 | 107 | 54 |
| 84 | 95 | 44 | 9 | 181 | 131 | 120 | 60 | 45 | 57 | 74 | 8 | 130 | 65 |
| 97 | 102 | 51 | 9 | 205 | 131 | 137 | 69 | 45 | 57 | 74 | 8 | 143 | 72 |
| 124 | 117 | 64 | 9 | 261 | 152 | 179 | 89 | 45 | 66 | 86 | 8 | 185 | 92 |

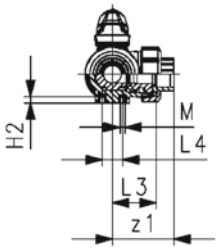


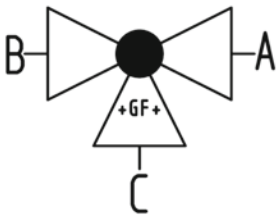










## 3-Way ball valve type 543 Pro PVC-U
## Horizontal/L-port
## With solvent cement sockets JIS

**Model:**

- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

**Option:**

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 75 | **161 543 122** | 0.226 | **161 543 132** | 0.251 |
| 25 | 20 | ¾ | 10 | 150 | **161 543 123** | 0.361 | **161 543 133** | 0.361 |
| 32 | 25 | 1 | 10 | 280 | **161 543 124** | 0.551 | **161 543 134** | 0.551 |
| 40 | 32 | 1 ¼ | 10 | 480 | **161 543 125** | 0.938 | **161 543 135** | 0.938 |
| 50 | 40 | 1 ½ | 10 | 620 | **161 543 126** | 1.390 | **161 543 136** | 1.390 |
| 63 | 50 | 2 | 10 | 1230 | **161 543 127** | 2.723 | **161 543 137** | 2.705 |

| D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | z (mm) | z1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 61 | 28 | 8 | 112 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 81 | 40 |
| 58 | 74 | 32 | 8 | 131 | 106 | 86 | 43 | 25 | 44 | 62 | 6 | 94 | 47 |
| 68 | 80 | 36 | 8 | 151 | 106 | 99 | 50 | 25 | 44 | 62 | 6 | 107 | 54 |
| 84 | 95 | 45 | 9 | 181 | 131 | 120 | 60 | 45 | 57 | 74 | 8 | 130 | 65 |
| 97 | 102 | 51 | 9 | 205 | 131 | 137 | 69 | 45 | 57 | 74 | 8 | 143 | 72 |
| 124 | 117 | 65 | 9 | 261 | 152 | 179 | 89 | 45 | 66 | 86 | 8 | 185 | 92 |



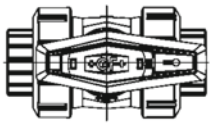
## 3-Way ball valve type 543 Pro PVC-U
## Vertical/L-port
## With solvent cement sockets JIS

**Model:**

- Lockable lever as standard (DN10-DN50)
- For easy installation and removal
- Ball seat PTFE
- Vertical inlet solvent cement spigot metric
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

**Mode of action:**

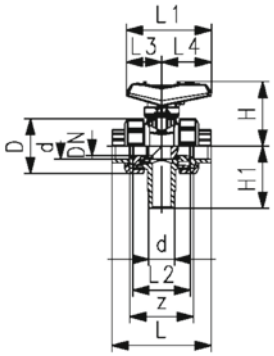
- For interconnection of two inputs



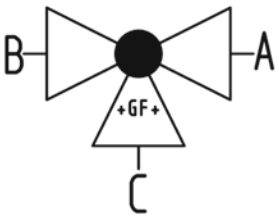
**Option:**

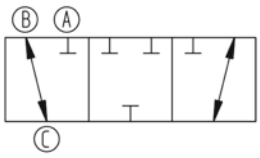
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

| DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 15 | ½ | 10 | 77 | **161 543 942** | 0.166 | **161 543 952** | 0.159 |
| 20 | ¾ | 10 | 146 | **161 543 943** | 0.255 | **161 543 953** | 0.255 |
| 25 | 1 | 10 | 260 | **161 543 944** | 0.372 | **161 543 954** | 0.372 |
| 32 | 1 ¼ | 10 | 437 | **161 543 945** | 0.622 | **161 543 955** | 0.622 |
| 40 | 1 ½ | 10 | 667 | **161 543 946** | 0.886 | **161 543 956** | 0.886 |
| 50 | 2 | 10 | 1293 | **161 543 947** | 1.617 | **161 543 957** | 1.617 |




| D (mm) | H (mm) | H1 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|
| 50 | 61 | 62 | 95 | 82 | 56 | 32 | 45 | 64 |
| 58 | 61 | 72 | 111 | 82 | 66 | 39 | 58 | 74 |
| 68 | 74 | 77 | 123 | 106 | 71 | 39 | 58 | 79 |
| 84 | 80 | 87 | 146 | 106 | 85 | 54 | 74 | 95 |
| 97 | 95 | 97 | 157 | 131 | 89 | 54 | 74 | 95 |
| 124 | 102 | 112 | 183 | 131 | 101 | 66 | 87 | 107 |







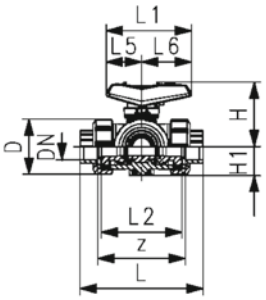
## 3-Way ball valve type 543 Pro PVC-U silicone free
## Horizontal/L-port
## With solvent cement sockets ASTM

**Model:**

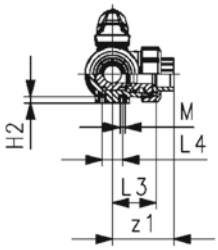
- Silicone free/paint-compatible
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

**Option:**

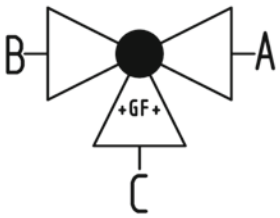
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible




| DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 10 | ⅜ | 10 | 50 | **161 543 181** | 0.245 | **161 543 191** | 0.245 |
| 15 | ½ | 10 | 75 | **161 543 182** | 0.251 | **161 543 192** | 0.251 |
| 20 | ¾ | 10 | 150 | **161 543 183** | 0.361 | **161 543 193** | 0.361 |
| 25 | 1 | 10 | 280 | **161 543 184** | 0.551 | **161 543 194** | 0.551 |
| 32 | 1 ¼ | 10 | 480 | **161 543 185** | 0.938 | **161 543 195** | 0.938 |
| 40 | 1 ½ | 10 | 620 | **161 543 186** | 1.390 | **161 543 196** | 1.390 |
| 50 | 2 | 10 | 1230 | **161 543 187** | 2.705 | **161 543 197** | 2.705 |

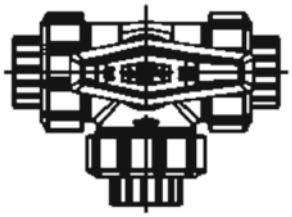



| D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | z (mm) | z1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 61 | 28 | 8 | 123 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 85 | 42 |
| 50 | 61 | 28 | 8 | 122 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 77 | 38 |
| 58 | 74 | 32 | 8 | 141 | 106 | 86 | 43 | 25 | 44 | 62 | 6 | 92 | 46 |
| 68 | 80 | 36 | 8 | 161 | 106 | 99 | 50 | 25 | 44 | 62 | 6 | 105 | 53 |
| 84 | 95 | 45 | 9 | 187 | 131 | 120 | 60 | 45 | 57 | 74 | 8 | 126 | 63 |
| 97 | 102 | 51 | 9 | 213 | 131 | 137 | 69 | 45 | 57 | 74 | 8 | 143 | 72 |
| 124 | 117 | 65 | 9 | 261 | 152 | 179 | 89 | 45 | 66 | 86 | 8 | 185 | 92 |







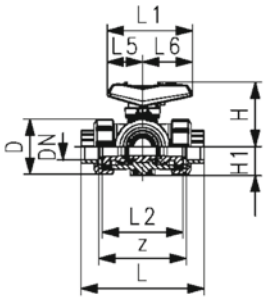
## 3-Way ball valve type 543 Pro PVC-U
## Horizontal/L-port
## With solvent cement sockets ASTM

**Model:**

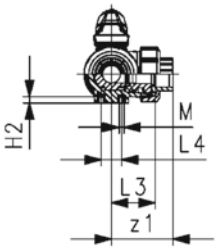
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

**Option:**

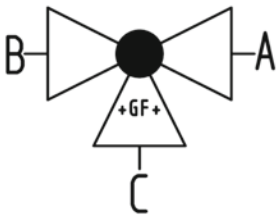
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible




| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | ⅜ | 10 | 50 | **161 543 081** | 0.245 | **161 543 091** | 0.245 |
| 20 | 15 | ½ | 10 | 75 | **161 543 082** | 0.251 | **161 543 092** | 0.251 |
| 25 | 20 | ¾ | 10 | 150 | **161 543 083** | 0.361 | **161 543 093** | 0.361 |
| 32 | 25 | 1 | 10 | 280 | **161 543 084** | 0.551 | **161 543 094** | 0.548 |
| 40 | 32 | 1 ¼ | 10 | 480 | **161 543 085** | 0.938 | **161 543 095** | 0.938 |
| 50 | 40 | 1 ½ | 10 | 620 | **161 543 086** | 1.375 | **161 543 096** | 1.398 |
| 63 | 50 | 2 | 10 | 1230 | **161 543 087** | 2.665 | **161 543 097** | 2.705 |

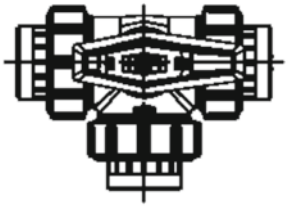



| D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | z (mm) | z1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 61 | 28 | 8 | 123 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 85 | 42 |
| 50 | 61 | 28 | 8 | 122 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 77 | 38 |
| 58 | 74 | 32 | 8 | 141 | 106 | 86 | 43 | 25 | 44 | 62 | 6 | 92 | 46 |
| 68 | 80 | 36 | 8 | 161 | 106 | 99 | 50 | 25 | 44 | 62 | 6 | 105 | 53 |
| 84 | 95 | 45 | 9 | 187 | 131 | 120 | 60 | 45 | 57 | 74 | 8 | 126 | 63 |
| 97 | 102 | 51 | 9 | 213 | 131 | 137 | 69 | 45 | 57 | 74 | 8 | 143 | 72 |
| 124 | 117 | 65 | 9 | 261 | 152 | 179 | 89 | 45 | 66 | 86 | 8 | 185 | 92 |







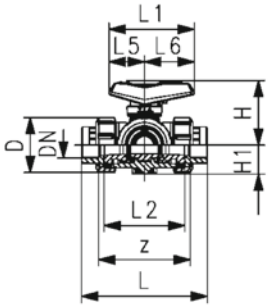
## 3-Way ball valve type 543 Pro PVC-U
## Horizontal/L-port
## With threaded sockets NPT

**Model:**

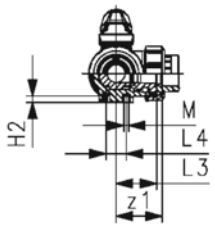
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

**Option:**

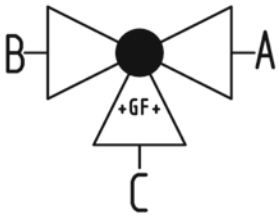
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible




| d (mm) | DN (mm) | Thread size | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | NPT | ⅜ | 10 | 50 | **161 543 101** | 0.245 | **161 543 111** | 0.245 |
| 20 | 15 | NPT | ½ | 10 | 75 | **161 543 102** | 0.255 | **161 543 112** | 0.251 |
| 25 | 20 | NPT | ¾ | 10 | 150 | **161 543 103** | 0.361 | **161 543 113** | 0.361 |
| 32 | 25 | NPT | 1 | 10 | 280 | **161 543 104** | 0.551 | **161 543 114** | 0.551 |
| 40 | 32 | NPT | 1 ¼ | 10 | 480 | **161 543 105** | 0.938 | **161 543 115** | 0.938 |
| 50 | 40 | NPT | 1 ½ | 10 | 620 | **161 543 106** | 1.435 | **161 543 116** | 1.390 |
| 63 | 50 | NPT | 2 | 10 | 1230 | **161 543 107** | 2.764 | **161 543 117** | 2.705 |




| D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | z (mm) | z1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 61 | 28 | 8 | 115 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 87 | 43 |
| 50 | 61 | 28 | 8 | 114 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 81 | 40 |
| 58 | 74 | 32 | 8 | 131 | 106 | 86 | 43 | 25 | 44 | 62 | 6 | 96 | 48 |
| 68 | 80 | 36 | 8 | 155 | 106 | 99 | 50 | 25 | 44 | 62 | 6 | 111 | 56 |
| 84 | 95 | 45 | 9 | 181 | 131 | 120 | 60 | 45 | 57 | 74 | 8 | 134 | 67 |
| 97 | 102 | 51 | 9 | 205 | 131 | 137 | 69 | 45 | 57 | 74 | 8 | 159 | 80 |
| 124 | 117 | 65 | 9 | 261 | 152 | 179 | 89 | 45 | 66 | 86 | 8 | 213 | 106 |







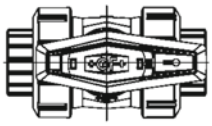

## 3-Way ball valve type 543 Pro PVC-U
## Vertical/L-port
## With solvent cement sockets BS

**Model:**

- Lockable lever as standard (DN10-DN50)
- For easy installation and removal
- Ball seat PTFE
- Vertical inlet solvent cement spigot metric
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

**Mode of action:**

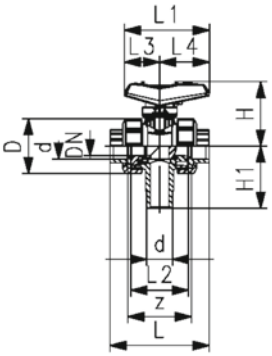
- For interconnection of two inputs



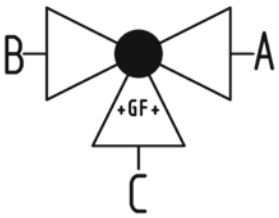
**Option:**

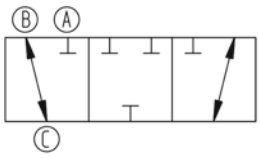
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

| Size (inch) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 49 | **161 543 601** | 0.162 | **161 543 611** | 0.162 |
| ½ | 15 | 10 | 77 | **161 543 602** | 0.166 | **161 543 612** | 0.166 |
| ¾ | 20 | 10 | 146 | **161 543 603** | 0.255 | **161 543 613** | 0.255 |
| 1 | 25 | 10 | 260 | **161 543 604** | 0.372 | **161 543 614** | 0.372 |
| 1 ¼ | 32 | 10 | 437 | **161 543 605** | 0.622 | **161 543 615** | 0.622 |
| 1 ½ | 40 | 10 | 667 | **161 543 606** | 0.886 | **161 543 616** | 0.886 |
| 2 | 50 | 10 | 1293 | **161 543 607** | 1.617 | **161 543 617** | 1.617 |



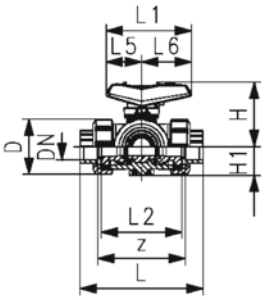

| Size (inch) | D (mm) | H (mm) | H1 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 61 | 62 | 92 | 82 | 56 | 32 | 45 | 60 |
| ½ | 50 | 61 | 62 | 95 | 82 | 56 | 32 | 45 | 60 |
| ¾ | 58 | 74 | 72 | 111 | 106 | 66 | 39 | 58 | 69 |
| 1 | 68 | 80 | 77 | 123 | 106 | 71 | 39 | 58 | 75 |
| 1 ¼ | 84 | 95 | 87 | 146 | 131 | 85 | 54 | 74 | 89 |
| 1 ½ | 97 | 102 | 97 | 157 | 131 | 89 | 54 | 74 | 97 |
| 2 | 124 | 117 | 112 | 183 | 152 | 101 | 66 | 87 | 110 |

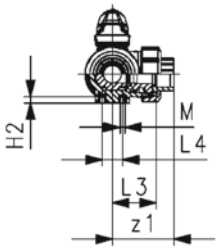


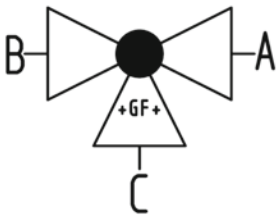













## 3-Way ball valve type 543 Pro PVC-U
## Horizontal/L-port
## With solvent cement sockets BS

**Model:**

- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

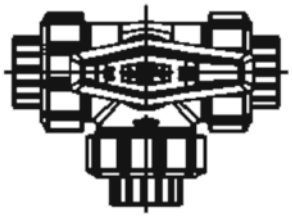
**Option:**

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | ⅜ | 10 | 50 | **161 543 061** | 0.245 | **161 543 071** | 0.245 |
| 20 | 15 | ½ | 10 | 75 | **161 543 062** | 0.251 | **161 543 072** | 0.251 |
| 25 | 20 | ¾ | 10 | 150 | **161 543 063** | 0.361 | **161 543 073** | 0.361 |
| 32 | 25 | 1 | 10 | 280 | **161 543 064** | 0.551 | **161 543 074** | 0.551 |
| 40 | 32 | 1 ¼ | 10 | 480 | **161 543 065** | 0.938 | **161 543 075** | 0.938 |
| 50 | 40 | 1 ½ | 10 | 620 | **161 543 066** | 1.388 | **161 543 076** | 1.390 |
| 63 | 50 | 2 | 10 | 1230 | **161 543 067** | 2.728 | **161 543 077** | 2.705 |

| D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | z (mm) | z1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 61 | 28 | 8 | 109 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 77 | 38 |
| 50 | 61 | 28 | 8 | 112 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 77 | 38 |
| 58 | 74 | 32 | 8 | 131 | 106 | 86 | 43 | 25 | 44 | 62 | 6 | 90 | 45 |
| 68 | 80 | 36 | 8 | 151 | 106 | 99 | 50 | 25 | 44 | 62 | 6 | 103 | 52 |
| 84 | 95 | 45 | 9 | 181 | 131 | 120 | 60 | 45 | 57 | 74 | 8 | 124 | 62 |
| 97 | 102 | 51 | 9 | 205 | 131 | 137 | 69 | 45 | 57 | 74 | 8 | 145 | 73 |
| 124 | 117 | 65 | 9 | 261 | 152 | 179 | 89 | 45 | 66 | 86 | 8 | 189 | 94 |





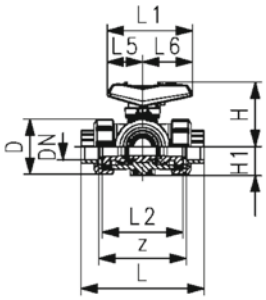
## 3-Way ball valve type 543 Pro PVC-U silicone free
## Horizontal/L-port
## With solvent cement sockets metric

**Model:**

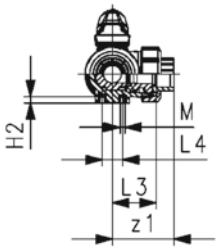
- Silicone free/paint-compatible
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PVDF
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

**Option:**

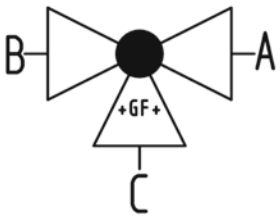
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible




| d (mm) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **161 543 141** | 0.245 | **161 543 151** | 0.245 |
| 20 | 15 | 10 | 75 | **161 543 142** | 0.251 | **161 543 152** | 0.251 |
| 25 | 20 | 10 | 150 | **161 543 143** | 0.343 | **161 543 153** | 0.361 |
| 32 | 25 | 10 | 280 | **161 543 144** | 0.524 | **161 543 154** | 0.551 |
| 40 | 32 | 10 | 480 | **161 543 145** | 0.938 | **161 543 155** | 0.938 |
| 50 | 40 | 10 | 620 | **161 543 146** | 1.390 | **161 543 156** | 1.390 |
| 63 | 50 | 10 | 1230 | **161 543 147** | 2.705 | **161 543 157** | 2.705 |



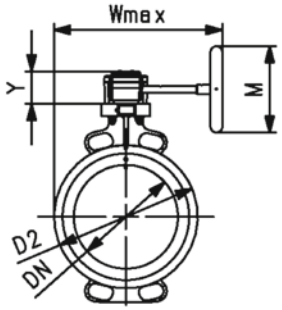

| d (mm) | D (mm) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | z (mm) | z1 (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 61 | 28 | 8 | 109 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 81 | 40 | ⅜ |
| 20 | 50 | 61 | 28 | 8 | 112 | 82 | 73 | 36 | 25 | 35 | 47 | 6 | 81 | 40 | ½ |
| 25 | 58 | 74 | 32 | 8 | 131 | 106 | 86 | 43 | 25 | 44 | 62 | 6 | 94 | 47 | ¾ |
| 32 | 68 | 80 | 36 | 8 | 151 | 106 | 99 | 50 | 25 | 44 | 62 | 6 | 107 | 54 | 1 |
| 40 | 84 | 95 | 45 | 9 | 181 | 131 | 120 | 60 | 45 | 57 | 74 | 8 | 130 | 65 | 1 ¼ |
| 50 | 97 | 102 | 51 | 9 | 205 | 131 | 137 | 69 | 45 | 57 | 74 | 8 | 143 | 72 | 1 ½ |
| 63 | 124 | 117 | 65 | 9 | 261 | 152 | 179 | 89 | 45 | 66 | 86 | 8 | 185 | 92 | 2 |

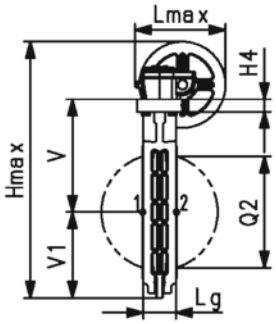


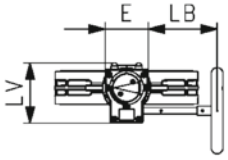



# Butterfly valves






**Wafer-style intermediate installation butterfly valve type 565 manual PVDF/PA-GF**
**With gear box**
**Wafer style metric/ANSI/BS/JIS**
**Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems**

**Model:**

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

**Option:**

- Individual configuration of the valve possible
- Hand (lockable hand lever), pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

**Note:**

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 16 | 1445 | **199 565 200** | 3.0 | **199 565 220** | 3.1 |
| 75 | 65 | 2 ½ | 16 | 2530 | **199 565 201** | 3.2 | **199 565 221** | 3.3 |
| 90 | 80 | 3 | 16 | 4020 | **199 565 202** | 3.4 | **199 565 222** | 3.5 |
| 110 | 100 | 4 | 16 | 5850 | **199 565 203** | 4.2 | **199 565 223** | 4.3 |
| 140 | 125 | 5 | 16 | 11900 | **199 565 204** | 4.7 | **199 565 224** | 5.0 |
| 160 | 150 | 6 | 16 | 18050 | **199 565 205** | 5.5 | **199 565 225** | 5.8 |
| 225 | 200 | 8 | 10 | 43667 | **199 565 206** | 6.7 | **199 565 226** | 7.2 |
| 280 | 250 | 10 | 10 | 62333 | **199 565 207** | 12.7 | **199 565 227** | 13.4 |
| 315 | 300 | 12 | 6 | 94500 | **199 565 208** | 16.5 | **199 565 228** | 17.6 |

| d (mm) | D2 (mm) | Wmax (mm) | Hmax (mm) | Lmax (mm) | H4 (mm) | V (mm) | V1 (mm) | Lg (mm) | E (mm) | LB (mm) | LV (mm) | M (mm) | Y (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 100.0 | 238.5 | 303.0 | 169.0 | 23 | 133.5 | 63.0 | 43 | 80 | 128.0 | 112.5 | 160 | 61.5 |
| 75 | 121.0 | 246.0 | 329.0 | 169.0 | 23 | 140.0 | 82.0 | 46 | 80 | 128.0 | 112.5 | 160 | 61.5 |
| 90 | 138.0 | 248.5 | 341.5 | 169.0 | 23 | 146.0 | 89.0 | 46 | 80 | 128.0 | 112.5 | 160 | 61.5 |
| 110 | 158.5 | 258.5 | 377.5 | 169.0 | 23 | 166.5 | 104.0 | 52 | 80 | 128.0 | 112.5 | 160 | 61.5 |
| 140 | 187.0 | 272.0 | 405.0 | 169.0 | 23 | 180.0 | 118.0 | 56 | 80 | 128.0 | 112.5 | 160 | 61.5 |
| 160 | 213.0 | 285.5 | 426.5 | 169.0 | 23 | 189.0 | 130.5 | 56 | 80 | 128.0 | 112.5 | 160 | 61.5 |
| 225 | 267.0 | 312.5 | 475.5 | 169.0 | 23 | 209.5 | 159.0 | 60 | 80 | 128.0 | 112.5 | 160 | 61.5 |
| 280 | 325.5 | 360.5 | 603.0 | 212.5 | 23 | 262.5 | 195.5 | 68 | 100 | 135.5 | 130.0 | 200 | 68.5 |
| 315 | 380.0 | 387.5 | 659.5 | 212.5 | 23 | 284.5 | 230.5 | 78 | 100 | 135.5 | 130.0 | 200 | 68.5 |

| d (mm) | Q2 (mm) |
|---|---|
| 63 | 28.5 |
| 75 | 44.0 |
| 90 | 63.5 |
| 110 | 84.0 |
| 140 | 110.5 |
| 160 | 137.5 |
| 225 | 190.5 |
| 280 | 239.0 |
| 315 | 285.5 |



## Wafer-style, intermediate installation butterfly valve type 565 PVDF/PA-GF
## Bare shaft
## Flange standard metric/ANSI/BS/JIS Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

**Model:**

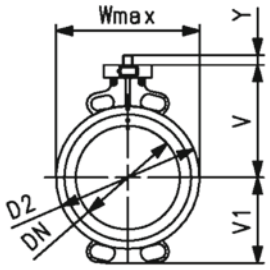
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

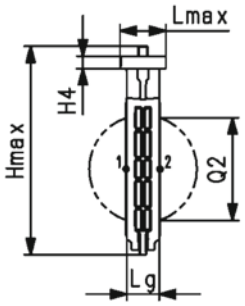
**Option:**

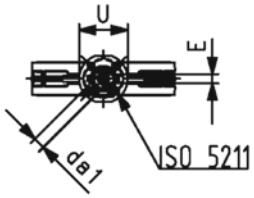
- Individual configuration of the valve possible
- Hand (lockable), pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

**Note:**

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com




| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | Acc.to ISO 5211 | EPDM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 16 | 1445 | F07 | **199 565 100** | 0.9 |
| 75 | 65 | 2 ½ | 16 | 2530 | F07 | **199 565 101** | 1.1 |
| 90 | 80 | 3 | 16 | 4020 | F07 | **199 565 102** | 1.3 |
| 110 | 100 | 4 | 16 | 5850 | F07 | **199 565 103** | 2.0 |
| 140 | 125 | 5 | 16 | 11900 | F07 | **199 565 104** | 2.6 |
| 160 | 150 | 6 | 16 | 18050 | F07 | **199 565 105** | 3.7 |
| 225 | 200 | 8 | 10 | 43667 | F07 | **199 565 106** | 4.7 |
| 280 | 250 | 10 | 10 | 62333 | F10 | **199 565 107** | 8.8 |
| 315 | 300 | 12 | 6 | 94500 | F10 | **199 565 108** | 12.6 |

| d (mm) | FKM Code | Weight (kg) |
|---|---|---|
| 63 | **199 565 120** | 1.0 |
| 75 | **199 565 121** | 1.2 |
| 90 | **199 565 122** | 1.4 |
| 110 | **199 565 123** | 2.2 |
| 140 | **199 565 124** | 2.9 |
| 160 | **199 565 125** | 3.8 |
| 225 | **199 565 126** | 5.2 |
| 280 | **199 565 127** | 9.5 |
| 315 | **199 565 128** | 13.7 |

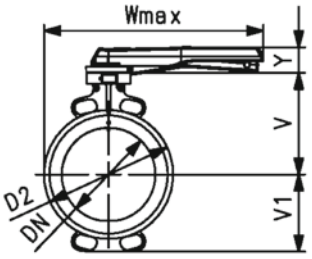
| d (mm) | D2 (mm) | Wmax (mm) | Lmax (mm) | Hmax (mm) | H4 (mm) | V (mm) | V1 (mm) | Lg (mm) | da1 (mm) | E (mm) | U (mm) | Y (mm) | Q2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 100.0 | 118.5 | 85.5 | 222.5 | 23.0 | 133.5 | 63.0 | 43.0 | 14.1 | 11.0 | 90.0 | 27.0 | 28.5 |
| 75 | 121.0 | 132.5 | 85.5 | 248.5 | 23.0 | 140.0 | 82.0 | 46.0 | 14.1 | 11.0 | 90.0 | 27.0 | 44.0 |
| 90 | 138.0 | 138.0 | 85.5 | 261.0 | 23.0 | 146.0 | 89.0 | 46.0 | 14.1 | 11.0 | 90.0 | 27.0 | 63.5 |
| 110 | 158.5 | 158.5 | 85.5 | 286.0 | 23.0 | 166.5 | 104.0 | 52.0 | 18.1 | 14.0 | 90.0 | 16.0 | 84.0 |
| 140 | 187.0 | 187.0 | 85.5 | 313.5 | 23.0 | 180.0 | 118.0 | 56.0 | 18.1 | 14.0 | 90.0 | 16.0 | 110.5 |
| 160 | 213.0 | 213.0 | 85.5 | 337.5 | 23.0 | 189.0 | 130.5 | 56.0 | 22.2 | 17.0 | 90.0 | 19.0 | 137.5 |
| 225 | 267.0 | 267.0 | 85.5 | 387.0 | 23.0 | 209.5 | 159.0 | 60.0 | 22.2 | 17.0 | 90.0 | 18.5 | 190.5 |
| 280 | 325.5 | 325.5 | 125.0 | 498.5 | 23.0 | 262.5 | 195.5 | 68.0 | 28.2 | 22.0 | 125.0 | 40.5 | 239.0 |
| 315 | 380.0 | 380.0 | 125.0 | 555.0 | 23.0 | 284.5 | 230.5 | 78.0 | 28.2 | 22.0 | 125.0 | 40.5 | 285.5 |



**Wafer-style, intermediate installation butterfly valve type 565 PVDF/PA-GF**
**With hand lever**
**Flange standard metric/ANSI/BS/JIS**
**Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems**

**Model:**

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Lockable ergonmic lever
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

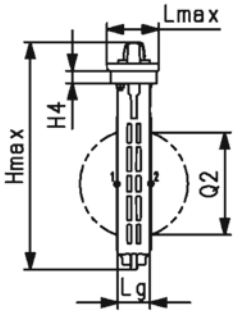


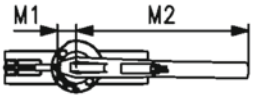

**Option:**

- Individual configuration of the valve possible
- Pneumatic or electric actuators from GF
- Double sensor for electrical position feedback  incl. LED feedback

**Note:**

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com




| d (mm) | Size (inch) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 63 | 2 | 50 | 16 | 1445 | **199 565 000** | 1.3 | **199 565 020** | 1.4 |
| 75 | 2 ½ | 65 | 16 | 2530 | **199 565 001** | 1.5 | **199 565 021** | 1.6 |
| 90 | 3 | 80 | 16 | 4020 | **199 565 002** | 1.7 | **199 565 022** | 1.8 |
| 110 | 4 | 100 | 16 | 5850 | **199 565 003** | 2.5 | **199 565 023** | 2.7 |
| 140 | 5 | 125 | 16 | 11900 | **199 565 004** | 3.1 | **199 565 024** | 3.3 |
| 160 | 6 | 150 | 16 | 18050 | **199 565 005** | 4.0 | **199 565 025** | 4.3 |
| 225 | 8 | 200 | 10 | 43667 | **199 565 006** | 5.3 | **199 565 026** | 5.7 |

| d (mm) | D2 (mm) | Wmax (mm) | Hmax (mm) | Lmax (mm) | H4 (mm) | V (mm) | V1 (mm) | Lg (mm) | M1 (mm) | M2 (mm) | Y (mm) | Q2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 100.0 | 264.0 | 249.5 | 96.0 | 23.0 | 133.5 | 63.0 | 43.0 | 35.5 | 204.5 | 53.0 | 28.5 |
| 75 | 121.0 | 271.0 | 275.5 | 96.0 | 23.0 | 140.0 | 82.0 | 46.0 | 35.5 | 204.5 | 53.0 | 44.0 |
| 90 | 138.0 | 273.5 | 288.0 | 96.0 | 23.0 | 146.0 | 89.0 | 46.0 | 35.5 | 204.5 | 53.0 | 63.5 |
| 110 | 158.5 | 334.0 | 324.0 | 96.0 | 23.0 | 166.5 | 104.0 | 52.0 | 35.5 | 254.5 | 53.0 | 84.0 |
| 140 | 187.0 | 348.0 | 351.0 | 96.0 | 23.0 | 180.0 | 118.0 | 56.0 | 35.5 | 254.5 | 53.0 | 110.5 |
| 160 | 213.0 | 426.0 | 372.5 | 96.0 | 23.0 | 189.0 | 130.5 | 56.0 | 35.5 | 319.5 | 53.0 | 137.5 |
| 225 | 267.0 | 453.0 | 422.0 | 96.0 | 23.0 | 209.5 | 159.0 | 60.0 | 35.5 | 319.5 | 53.0 | 190.5 |



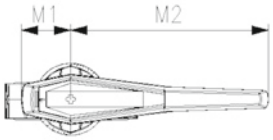
## PROGEF Standard Wafer-style intermediate installation butterfly valve type 567
## With hand lever
## Flange standard metric/ANSI/BS/JIS

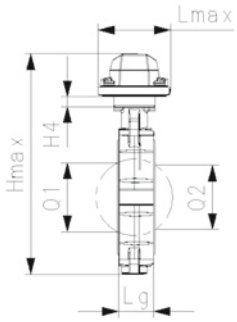
**Model:**

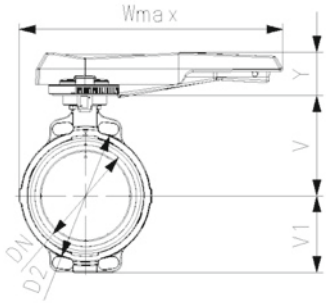
- Material: PP-H, DN350-DN600 material PP-R
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

**Note:**

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



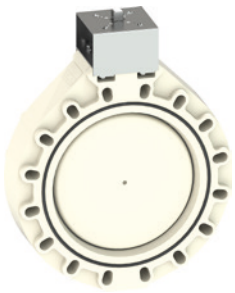




| d (mm) | Size (inch) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 63 | 2 | 50 | 10 | 740 | **167 567 002** | 1.170 | **167 567 022** | 1.627 |
| 75 | 2 ½ | 65 | 10 | 1500 | **167 567 003** | 1.254 | **167 567 023** | 1.061 |
| 90 | 3 | 80 | 10 | 2400 | **167 567 004** | 1.384 | **167 567 024** | 1.404 |
| 110 | 4 | 100 | 10 | 3800 | **167 567 005** | 1.961 | **167 567 025** | 1.998 |
| 140 | 5 | 125 | 10 | 8600 | **167 567 006** | 2.367 | **167 567 026** | 2.429 |
| 160 | 6 | 150 | 10 | 11400 | **167 567 007** | 3.741 | **167 567 027** | 3.246 |
| 225 | 8 | 200 | 10 | 19900 | **167 567 008** | 5.545 | **167 567 028** | 5.609 |
| 280 | 10 | 250 | 6 | 34000 | **167 567 009** | 11.061 | **167 567 029** | 11.841 |
| 315 | 12 | 300 | 6 | 50000 | **167 567 010** | 16.548 | **167 567 030** | 13.245 |

| d (mm) | PTFE Code | Weight (kg) |
|---|---|---|
| 63 | **167 567 202** | 1.170 |
| 75 | **167 567 203** | 1.254 |
| 90 | **167 567 204** | 1.384 |
| 110 | **167 567 205** | 1.961 |
| 140 | **167 567 206** | 2.367 |
| 160 | **167 567 207** | 3.741 |
| 225 | **167 567 208** | 5.545 |
| 280 | **167 567 209** | 11.061 |
| 315 | **167 567 210** | 16.548 |

| d (mm) | Hmax (mm) | Lmax (mm) | Wmax (mm) | U (mm) | V (mm) | H4 (mm) | V1 (mm) | Lg (mm) | D2 (mm) | Q1 (mm) | Q2 (mm) | Y (mm) | M1 (mm) | M2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 278.9 | 115.2 | 269.0 | 90 | 133.3 | 23 | 78.8 | 45 | 104 | 40 | | 66.8 | 64.7 | 205.5 |
| 75 | 291.8 | 115.2 | 281.8 | 90 | 139.9 | 23 | 85.1 | 46 | 115 | 54 | 35 | 66.8 | 64.7 | 205.5 |
| 90 | 303.6 | 115.2 | 273.9 | 90 | 145.6 | 23 | 91.2 | 49 | 131 | 67 | 50 | 66.8 | 64.7 | 205.5 |
| 110 | 342.2 | 115.2 | 336.0 | 90 | 166.4 | 23 | 105.7 | 56 | 161 | 88 | 74 | 70.1 | 64.9 | 255.5 |
| 140 | 368.9 | 115.2 | 349.0 | 90 | 180.0 | 23 | 118.8 | 64 | 187 | 113 | 97 | 70.1 | 64.9 | 255.5 |
| 160 | 390.0 | 115.2 | 363.0 | 90 | 189.0 | 23 | 130.9 | 72 | 215 | 139 | 123 | 70.1 | 64.9 | 255.5 |
| 225 | 455.1 | 149.4 | 543.0 | 90 | 210.5 | 23 | 158.3 | 73 | 267 | 178 | 169 | 86.3 | 103.6 | 409.5 |
| 280 | 555.0 | 149.4 | 574.0 | 125 | 262.6 | 23 | 206.1 | 113 | 329 | 210 | 207 | 86.3 | 103.6 | 409.5 |
| 315 | 599.4 | 149.4 | 599.7 | 125 | 284.3 | 23 | 228.8 | 113 | 379 | 256 | 253 | 86.3 | 103.6 | 409.5 |





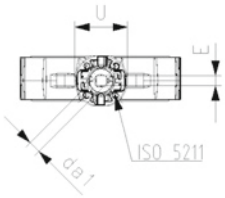
## PROGEF Standard Wafer-style intermediate installation butterfly valve type 567
## Bare shaft
## Flange standard metric/ANSI/BS/JIS

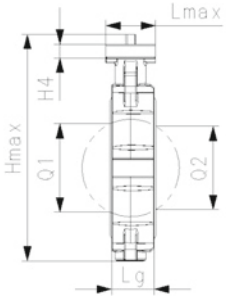
**Model:**

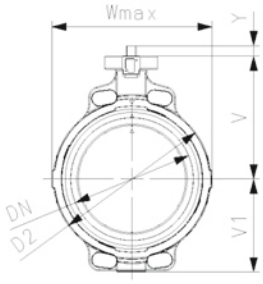
- Material: PP-H, DN350-DN600 material PP-R
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Interface F07 for the dimensions DN50-200 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211
- Interface F12 for the dimensions DN350-400 according to DIN/ISO 5211
- Interface F14 for the dimensions DN450-600 according to DIN/ISO 5211

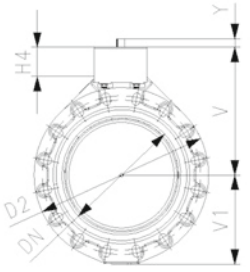
**Note:**

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



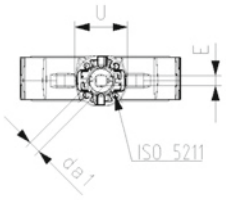



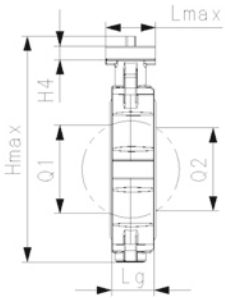

| d (mm) | Size (inch) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 63 | 2 | 50 | 10 | 740 | **167 567 802** | 0.699 | **167 567 822** | 0.721 |
| 75 | 2 ½ | 65 | 10 | 1500 | **167 567 803** | 0.793 | **167 567 823** | 0.804 |
| 90 | 3 | 80 | 10 | 2400 | **167 567 804** | 0.913 | **167 567 824** | 0.939 |
| 110 | 4 | 100 | 10 | 3800 | **167 567 805** | 1.409 | **167 567 825** | 1.450 |
| 140 | 5 | 125 | 10 | 8600 | **167 567 806** | 1.831 | **167 567 826** | 1.929 |
| 160 | 6 | 150 | 10 | 11400 | **167 567 807** | 2.641 | **167 567 827** | 2.713 |
| 225 | 8 | 200 | 10 | 19900 | **167 567 808** | 4.110 | **167 567 828** | 4.186 |
| 280 | 10 | 250 | 8 | 34000 | **167 567 809** | 9.412 | **167 567 829** | 10.251 |
| 315 | 12 | 300 | 8 | 50000 | **167 567 810** | 13.054 | **167 567 830** | 13.251 |
| 355 | 14 | 350 | 6 | 90000 | **167 567 811** | 35.000 | **167 567 831** | 35.000 |
| 400 | 16 | 400 | 6 | 115000 | **167 567 812** | 45.000 | **167 567 832** | 45.000 |
| 450 | 18 | 450 | 5 | 155000 | **167 567 813** | 60.000 | **167 567 833** | 60.000 |
| 500 | 20 | 500 | 4 | 204000 | **167 567 814** | 75.000 | **167 567 834** | 75.000 |
| 630 | 24 | 600 | 4 | 265000 | **167 567 815** | 110.000 | **167 567 835** | 110.000 |

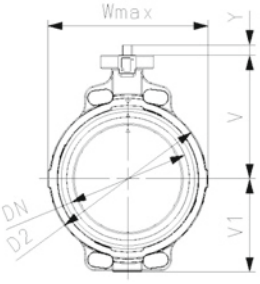
| d (mm) | Size (inch) | DN (mm) | PTFE Code | Weight (kg) |
|---|---|---|---|---|
| 63 | 2 | 50 | **167 567 840** | 0.699 |
| 75 | 2 ½ | 65 | **167 567 841** | 0.793 |
| 90 | 3 | 80 | **167 567 842** | 0.913 |
| 110 | 4 | 100 | **167 567 843** | 1.409 |
| 140 | 5 | 125 | **167 567 844** | 1.831 |
| 160 | 6 | 150 | **167 567 845** | 2.641 |
| 225 | 8 | 200 | **167 567 846** | 4.110 |
| 280 | 10 | 250 | **167 567 847** | 9.412 |
| 315 | 12 | 300 | **167 567 848** | 13.054 |
| 355 | 14 | 350 | **167 567 849** | 35.000 |
| 400 | 16 | 400 | **167 567 850** | 45.000 |
| 450 | 18 | 450 | **167 567 851** | 60.000 |
| 500 | 20 | 500 | **167 567 852** | 75.000 |
| 630 | 24 | 600 | **167 567 853** | 110.000 |

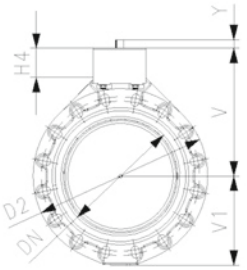
| d (mm) | Size (inch) | DN (mm) | Hmax (mm) | Lmax (mm) | Wmax (mm) | U (mm) | V (mm) | H4 (mm) | V1 (mm) | Lg (mm) | D2 (mm) | Q1 (mm) | Q2 (mm) | Y (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 2 | 50 | 238.3 | 84.8 | 118.4 | 90 | 133.3 | 23 | 78.8 | 45 | 104 | 40 | | 26.2 |
| 75 | 2 ½ | 65 | 251.2 | 84.8 | 132.5 | 90 | 139.9 | 23 | 85.1 | 46 | 115 | 54 | 35 | 26.2 |
| 90 | 3 | 80 | 263.0 | 84.8 | 136.8 | 90 | 145.6 | 23 | 91.2 | 49 | 131 | 67 | 50 | 26.2 |
| 110 | 4 | 100 | 287.5 | 84.8 | 161.0 | 90 | 166.4 | 23 | 105.7 | 56 | 161 | 88 | 74 | 15.4 |
| 140 | 5 | 125 | 314.2 | 84.8 | 187.0 | 90 | 180.0 | 23 | 118.8 | 64 | 187 | 113 | 97 | 15.4 |
| 160 | 6 | 150 | 338.3 | 84.8 | 215.0 | 90 | 189.0 | 23 | 130.9 | 72 | 215 | 139 | 123 | 18.4 |
| 225 | 8 | 200 | 387.2 | 84.8 | 267.0 | 90 | 210.5 | 23 | 158.3 | 73 | 267 | 178 | 169 | 18.4 |
| 280 | 10 | 250 | 508.9 | 125.0 | 329.0 | 125 | 262.6 | 23 | 206.1 | 113 | 329 | 210 | 207 | 40.2 |
| 315 | 12 | 300 | 553.3 | 125.0 | 380.4 | 125 | 284.3 | 23 | 228.8 | 113 | 379 | 256 | 253 | 40.2 |
| 355 | 14 | 350 | 709.0 | 180.0 | 535.0 | 180 | 410.0 | 100 | 268.0 | 129 | 535 | 325 | 305 | 31.0 |

table continued on the next page



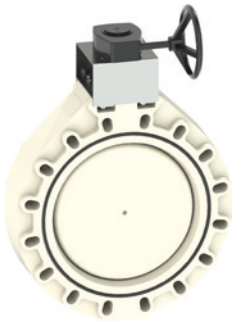



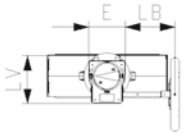




| d (mm) | Size (inch) | DN (mm) | Hmax (mm) | Lmax (mm) | Wmax (mm) | U (mm) | V (mm) | H4 (mm) | V1 (mm) | Lg (mm) | D2 (mm) | Q1 (mm) | Q2 (mm) | Y (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 400 | 16 | 400 | 766.0 | 180.0 | 595.0 | 180 | 435.0 | 100 | 300.0 | 169 | 595 | 353 | 350 | 31.0 |
| 450 | 18 | 450 | 875.0 | 220.0 | 635.0 | 220 | 520.0 | 130 | 320.0 | 179 | 635 | 393 | 390 | 35.0 |
| 500 | 20 | 500 | 935.0 | 220.0 | 700.0 | 220 | 550.0 | 130 | 350.0 | 190 | 700 | 444 | 440 | 35.0 |
| 630 | 24 | 600 | 1065.0 | 220.0 | 813.0 | 220 | 610.0 | 130 | 420.0 | 209 | 813 | 530 | 527 | 35.0 |

| d (mm) | Size (inch) | DN (mm) | E (mm) | da1 (mm) |
|---|---|---|---|---|
| 63 | 2 | 50 | 11 | 13.5 |
| 75 | 2 ½ | 65 | 11 | 13.5 |
| 90 | 3 | 80 | 11 | 13.5 |
| 110 | 4 | 100 | 14 | 17.3 |
| 140 | 5 | 125 | 14 | 17.3 |
| 160 | 6 | 150 | 17 | 21.1 |
| 225 | 8 | 200 | 17 | 21.1 |
| 280 | 10 | 250 | 22 | 27.0 |
| 315 | 12 | 300 | 22 | 27.0 |
| 355 | 14 | 350 | 22 | 28.5 |
| 400 | 16 | 400 | 27 | 36.0 |
| 450 | 18 | 450 | 27 | 36.0 |
| 500 | 20 | 500 | 27 | 36.0 |
| 630 | 24 | 600 | 36 | 45.0 |








## PROGEF Standard Wafer-style intermediate installation butterfly valve type 567
## With gear box
## Flange standard metric/ANSI/BS/JIS

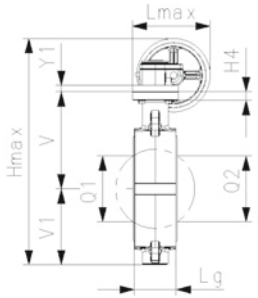
**Model:**

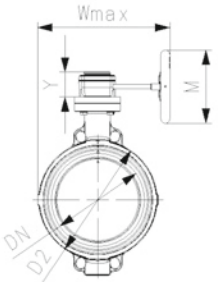
- Material: PP-H, DN350-DN600 material PP-R
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

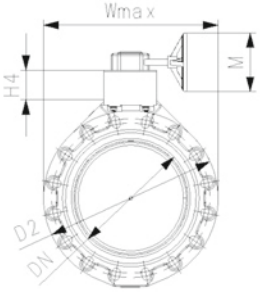
**Note:**

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

| d (mm) | Size (inch) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 63 | 2 | 50 | 10 | 740 | **167 567 042** | 3.003 | **167 567 062** | 3.007 |
| 75 | 2 ½ | 65 | 10 | 1500 | **167 567 043** | 2.781 | **167 567 063** | 3.099 |
| 90 | 3 | 80 | 10 | 2400 | **167 567 044** | 3.301 | **167 567 064** | 3.229 |
| 110 | 4 | 100 | 10 | 3800 | **167 567 045** | 3.736 | **167 567 065** | 3.741 |
| 140 | 5 | 125 | 10 | 8600 | **167 567 046** | 2.770 | **167 567 066** | 4.243 |
| 160 | 6 | 150 | 10 | 11400 | **167 567 047** | 4.969 | **167 567 067** | 5.038 |
| 225 | 8 | 200 | 10 | 19900 | **167 567 048** | 8.538 | **167 567 068** | 6.539 |
| 280 | 10 | 250 | 8 | 34000 | **167 567 049** | 12.884 | **167 567 069** | 13.074 |
| 315 | 12 | 300 | 8 | 50000 | **167 567 050** | 16.442 | **167 567 070** | 16.066 |
| 355 | 14 | 350 | 6 | 90000 | **167 567 051** | 40.000 | **167 567 071** | 40.000 |
| 400 | 16 | 400 | 6 | 115000 | **167 567 052** | 50.000 | **167 567 072** | 50.000 |
| 450 | 18 | 450 | 5 | 155000 | **167 567 053** | 70.000 | **167 567 073** | 70.000 |
| 500 | 20 | 500 | 4 | 204000 | **167 567 054** | 90.000 | **167 567 074** | 90.000 |
| 630 | 24 | 600 | 4 | 265000 | **167 567 055** | 125.000 | **167 567 075** | 125.000 |



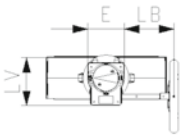



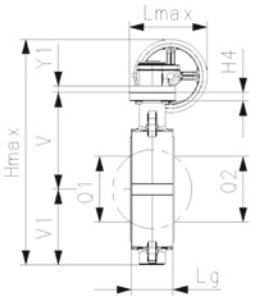

| d (mm) | PTFE Code | Weight (kg) |
|---|---|---|
| 63 | **167 567 242** | 3.003 |
| 75 | **167 567 243** | 2.781 |
| 90 | **167 567 244** | 3.301 |
| 110 | **167 567 245** | 3.736 |
| 140 | **167 567 246** | 2.770 |
| 160 | **167 567 247** | 4.969 |
| 225 | **167 567 248** | 8.538 |
| 280 | **167 567 249** | 12.884 |
| 315 | **167 567 250** | 16.442 |
| 355 | **167 567 251** | 40.000 |
| 400 | **167 567 252** | 50.000 |
| 450 | **167 567 253** | 70.000 |
| 500 | **167 567 254** | 90.000 |
| 630 | **167 567 255** | 125.000 |

| d (mm) | Hmax (mm) | Lmax (mm) | Wmax (mm) | U (mm) | V (mm) | H4 (mm) | V1 (mm) | Lg (mm) | D2 (mm) | Q1 (mm) | Q2 (mm) | Y1 (mm) | M (mm) | Y (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 319.4 | 169.1 | 240.2 | 90 | 133.3 | 23 | 78.8 | 45 | 104 | 40 | | | 160 | 61.2 |
| 75 | 332.3 | 169.1 | 247.3 | 90 | 139.9 | 23 | 85.1 | 46 | 115 | 54 | 35 | | 160 | 61.2 |
| 90 | 344.1 | 169.1 | 249.4 | 90 | 145.6 | 23 | 91.2 | 49 | 131 | 67 | 50 | | 160 | 61.2 |
| 110 | 379.4 | 169.1 | 261.5 | 90 | 166.4 | 23 | 105.7 | 56 | 161 | 88 | 74 | | 160 | 61.2 |
| 140 | 406.1 | 169.1 | 274.5 | 90 | 180.0 | 23 | 118.8 | 64 | 187 | 113 | 97 | | 160 | 61.2 |
| 160 | 427.2 | 169.1 | 288.5 | 90 | 189.0 | 23 | 130.9 | 72 | 215 | 139 | 123 | | 160 | 61.2 |
| 225 | 476.1 | 169.1 | 267.0 | 90 | 210.5 | 23 | 158.3 | 73 | 267 | 178 | 169 | | 160 | 61.2 |
| 280 | 613.0 | 212.6 | 329.0 | 125 | 262.6 | 23 | 206.1 | 113 | 329 | 210 | 207 | 17 | 200 | 68.4 |
| 315 | 657.4 | 212.6 | 380.4 | 125 | 284.3 | 23 | 228.8 | 113 | 379 | 256 | 253 | 17 | 200 | 68.4 |
| 355 | 805.0 | 217.0 | 535.0 | 180 | 410.0 | 100 | 268.0 | 129 | 535 | 325 | 305 | | 200 | 62.0 |

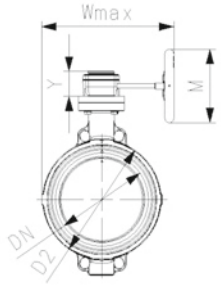
table continued on the next page

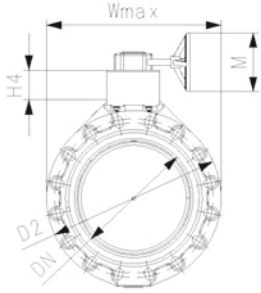



| d (mm) | Hmax (mm) | Lmax (mm) | Wmax (mm) | U (mm) | V (mm) | H4 (mm) | V1 (mm) | Lg (mm) | D2 (mm) | Q1 (mm) | Q2 (mm) | Y1 (mm) | M (mm) | Y (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 400 | 865.0 | 245.0 | 595.0 | 180 | 435.0 | 100 | 300.0 | 169 | 595 | 353 | 350 | | 200 | 62.0 |
| 450 | 992.0 | 275.0 | 635.0 | 220 | 520.0 | 130 | 320.0 | 179 | 635 | 393 | 390 | | 250 | 62.0 |
| 500 | 1083.0 | 321.0 | 700.0 | 220 | 550.0 | 130 | 350.0 | 190 | 700 | 444 | 440 | | 300 | 70.0 |
| 630 | 1216.0 | 331.0 | 813.0 | 220 | 610.0 | 130 | 420.0 | 209 | 813 | 530 | 527 | | 300 | 70.0 |




| d (mm) | E (mm) | LV (mm) | LB (mm) |
|---|---|---|---|
| 63 | 80 | 112.3 | 129.5 |
| 75 | 80 | 112.3 | 129.5 |
| 90 | 80 | 112.3 | 129.5 |
| 110 | 80 | 112.3 | 129.5 |
| 140 | 80 | 112.3 | 129.5 |
| 160 | 80 | 112.3 | 129.5 |
| 225 | 80 | 112.3 | 129.5 |
| 280 | 100 | 130.0 | 134.0 |
| 315 | 100 | 130.0 | 134.0 |
| 355 | 130 | 146.0 | 122.0 |
| 400 | 130 | 174.0 | 122.0 |
| 450 | 130 | 185.0 | 203.0 |
| 500 | 174 | 201.0 | 151.0 |
| 630 | 74 | 210.0 | 151.0 |





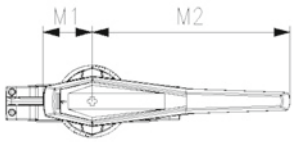
## PROGEF Standard Lug-style end installation butterfly valve type 578
## With hand lever
## Flange standard metric

**Model:**

- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

**Option:**

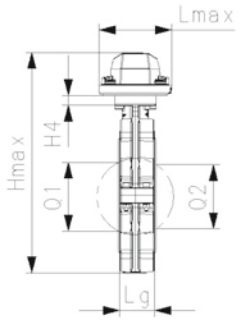
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

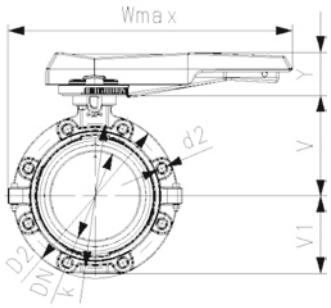



**Note:**

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

| d (mm) | Size (inch) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 63 | 2 | 50 | 10 | 740 | **167 578 002** | 1.800 | **167 578 022** | 1.800 |
| 75 | 2 ½ | 65 | 10 | 1500 | **167 578 003** | 1.895 | **167 578 023** | 1.895 |
| 90 | 3 | 80 | 10 | 2400 | **167 578 004** | 2.251 | **167 578 024** | 2.251 |
| 110 | 4 | 100 | 10 | 3800 | **167 578 005** | 3.146 | **167 578 025** | 3.146 |
| 140 | 5 | 125 | 10 | 8600 | **167 578 006** | 4.660 | **167 578 026** | 4.660 |
| 160 | 6 | 150 | 10 | 11400 | **167 578 007** | 6.430 | **167 578 027** | 6.430 |
| 225 | 8 | 200 | 10 | 19900 | **167 578 008** | 8.625 | **167 578 028** | 8.625 |
| 280 | 10 | 250 | 6 | 34000 | **167 578 009** | 19.528 | **167 578 029** | 19.528 |
| 315 | 12 | 300 | 6 | 50000 | **167 578 010** | 26.106 | **167 578 030** | 26.106 |




| d (mm) | Hmax (mm) | Lmax (mm) | Wmax (mm) | U (mm) | V (mm) | H4 (mm) | V1 (mm) | Lg (mm) | D2 (mm) | Q1 (mm) | Q2 (mm) | d2 | M1 (mm) | M2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 278.9 | 115.2 | 287.8 | 90 | 133.9 | 23 | 78.8 | 44.7 | 160 | 40 | | M16 | 63.7 | 205.3 |
| 75 | 291.8 | 115.2 | 296.3 | 90 | 139.9 | 23 | 85.1 | 45.7 | 180 | 54 | 35 | M16 | 63.7 | 205.3 |
| 90 | 303.6 | 115.2 | 310.3 | 90 | 145.6 | 23 | 91.2 | 48.7 | 195 | 67 | 50 | M16 | 63.7 | 205.3 |
| 110 | 343.6 | 115.2 | 375.2 | 90 | 166.0 | 23 | 107.5 | 55.6 | 226 | 88 | 74 | M16 | 63.7 | 255.2 |
| 140 | 372.8 | 115.2 | 391.2 | 90 | 180.0 | 23 | 122.7 | 63.5 | 258 | 113 | 97 | M16 | 63.7 | 255.2 |
| 160 | 393.6 | 115.2 | 395.2 | 90 | 189.0 | 23 | 134.5 | 71.5 | 284 | 139 | 123 | M20 | 63.7 | 255.2 |
| 225 | 458.1 | 149.4 | 588.1 | 90 | 210.5 | 23 | 161.5 | 72.5 | 341 | 178 | 169 | M20 | 101.7 | 408.1 |
| 280 | 557.6 | 149.4 | 628.1 | 125 | 264.4 | 23 | 206.9 | 113.2 | 412 | 210 | 207 | M20 | 101.7 | 408.1 |
| 315 | 607.0 | 149.4 | 663.1 | 125 | 285.2 | 23 | 235.5 | 114.6 | 482 | 256 | 253 | M20 | 101.7 | 408.1 |



## PROGEF Standard Lug-style end installation butterfly valve type 578
## Bare Shaft
## Flange standard metric

**Model:**

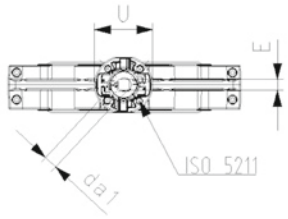
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Interface F07 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211

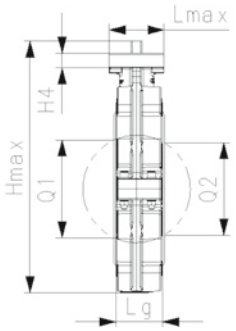
**Option:**

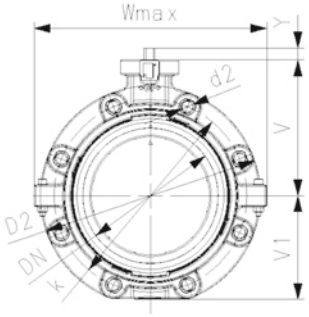
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

**Note:**

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com




| d (mm) | Size (inch) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 63 | 2 | 50 | 10 | 740 | **167 578 802** | 1.299 | **167 578 822** | 1.299 |
| 75 | 2 ½ | 65 | 10 | 1500 | **167 578 803** | 1.456 | **167 578 823** | 1.456 |
| 90 | 3 | 80 | 10 | 2400 | **167 578 804** | 1.701 | **167 578 824** | 1.701 |
| 110 | 4 | 100 | 10 | 3800 | **167 578 805** | 2.606 | **167 578 825** | 2.606 |
| 140 | 5 | 125 | 10 | 8600 | **167 578 806** | 4.120 | **167 578 826** | 4.120 |
| 160 | 6 | 150 | 10 | 11400 | **167 578 807** | 5.881 | **167 578 827** | 5.881 |
| 225 | 8 | 200 | 10 | 19900 | **167 578 808** | 7.125 | **167 578 828** | 7.125 |
| 280 | 10 | 250 | 8 | 34000 | **167 578 809** | 17.880 | **167 578 829** | 17.880 |
| 315 | 12 | 300 | 8 | 50000 | **167 578 810** | 24.416 | **167 578 830** | 24.416 |

| d (mm) | Hmax (mm) | Lmax (mm) | Wmax (mm) | U (mm) | V (mm) | H4 (mm) | V1 (mm) | Lg (mm) | D2 (mm) | Q1 (mm) | Q2 (mm) | d2 | k (mm) | da1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 238.3 | 84.8 | 159.5 | 90 | 133.3 | 23 | 78.8 | 44.7 | 160 | 40 | | M16 | 125 | 13.5 |
| 75 | 251.2 | 84.8 | 166.1 | 90 | 139.9 | 23 | 85.1 | 45.7 | 180 | 54 | 35 | M16 | 145 | 13.5 |
| 90 | 263.0 | 84.8 | 171.8 | 90 | 145.6 | 23 | 91.2 | 48.7 | 195 | 67 | 50 | M16 | 160 | 13.5 |
| 110 | 288.9 | 84.8 | 181.4 | 90 | 166.0 | 23 | 107.5 | 55.6 | 226 | 88 | 74 | M16 | 180 | 17.3 |
| 140 | 318.1 | 84.8 | 195.4 | 90 | 180.0 | 23 | 122.7 | 63.5 | 258 | 113 | 97 | M16 | 210 | 17.3 |
| 160 | 341.9 | 84.8 | 207.4 | 90 | 189.0 | 23 | 134.5 | 71.5 | 284 | 139 | 123 | M20 | 240 | 21.1 |
| 225 | 390.4 | 84.8 | 228.9 | 90 | 210.5 | 23 | 161.5 | 72.5 | 341 | 178 | 169 | M20 | 295 | 21.1 |
| 280 | 511.5 | 125.0 | 304.6 | 125 | 264.4 | 23 | 206.9 | 113.2 | 412 | 210 | 207 | M20 | 350 | 27.0 |
| 315 | 560.9 | 125.0 | 325.4 | 125 | 285.2 | 23 | 235.5 | 114.6 | 482 | 256 | 253 | M20 | 400 | 27.0 |



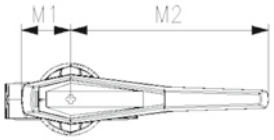
## Wafer-style intermediate installation butterfly valve type 567 ABS
## With hand lever
## Flange standard metric/ANSI/BS/JIS

**Model:**

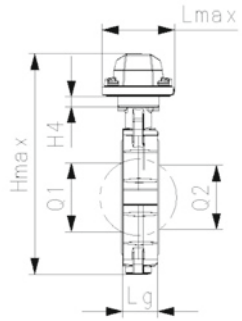
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

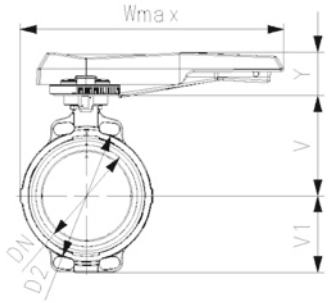
**Note:**

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com




| d (mm) | Size (inch) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) |
|---|---|---|---|---|---|---|
| 63 | 2 | 50 | 10 | 740 | **169 567 002** | 1.187 |
| 75 | 2 ½ | 65 | 10 | 1500 | **169 567 003** | 1.282 |
| 90 | 3 | 80 | 10 | 2400 | **169 567 004** | 1.420 |
| 110 | 4 | 100 | 10 | 3800 | **169 567 005** | 2.020 |
| 140 | 5 | 125 | 10 | 8600 | **169 567 006** | 2.536 |
| 160 | 6 | 150 | 10 | 11400 | **169 567 007** | 3.337 |
| 225 | 8 | 200 | 10 | 19900 | **169 567 008** | 5.808 |
| 280 | 10 | 250 | 10 | 34000 | **169 567 009** | 14.328 |
| 315 | 12 | 300 | 10 | 50000 | **169 567 010** | 18.899 |




| d (mm) | Hmax (mm) | Lmax (mm) | Wmax (mm) | U (mm) | V (mm) | H4 (mm) | V1 (mm) | Lg (mm) | D2 (mm) | Q1 (mm) | Q2 (mm) | Y (mm) | M1 (mm) | M2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 278.9 | 115.2 | 269.0 | 90 | 133.3 | 23 | 78.8 | 45 | 104 | 40 | | 66.8 | 64.7 | 205.5 |
| 75 | 291.8 | 115.2 | 271.8 | 90 | 139.9 | 23 | 85.1 | 46 | 115 | 54 | 35 | 66.8 | 64.7 | 205.5 |
| 90 | 303.6 | 115.2 | 273.9 | 90 | 145.6 | 23 | 91.2 | 49 | 131 | 67 | 50 | 66.8 | 64.7 | 205.5 |
| 110 | 342.2 | 115.2 | 336.0 | 90 | 166.4 | 23 | 105.7 | 56 | 161 | 88 | 74 | 70.1 | 64.9 | 255.5 |
| 140 | 368.9 | 115.2 | 349.0 | 90 | 180.0 | 23 | 118.8 | 64 | 187 | 113 | 97 | 70.1 | 64.9 | 255.5 |
| 160 | 390.0 | 115.2 | 363.0 | 90 | 189.0 | 23 | 130.9 | 72 | 215 | 139 | 123 | 70.1 | 64.9 | 255.5 |
| 225 | 455.1 | 149.4 | 543.0 | 90 | 210.5 | 23 | 158.3 | 73 | 267 | 178 | 169 | 86.3 | 103.6 | 409.5 |
| 280 | 555.0 | 149.4 | 574.0 | 125 | 262.6 | 23 | 206.1 | 113 | 329 | 210 | 207 | 86.3 | 103.6 | 409.5 |
| 315 | 599.4 | 149.4 | 599.7 | 125 | 284.3 | 23 | 228.8 | 113 | 379 | 256 | 253 | 86.3 | 103.6 | 409.5 |



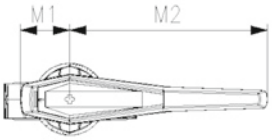
## Wafer-style intermediate installation butterfly valve type 567 PVC-U
## With hand lever
## Flange standard metric/ANSI/BS/JIS

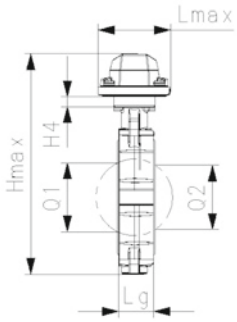
**Model:**

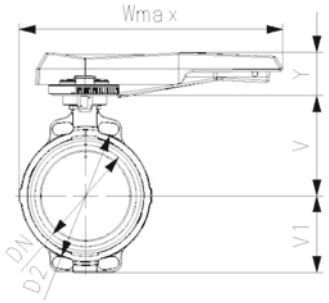
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

**Note:**

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com




| d (mm) | Size (inch) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 63 | 2 | 50 | 10 | 740 | **161 567 002** | **161 567 022** | 1.259 |
| 75 | 2 ½ | 65 | 10 | 1500 | **161 567 003** | **161 567 023** | 1.799 |
| 90 | 3 | 80 | 10 | 2400 | **161 567 004** | **161 567 024** | 1.534 |
| 110 | 4 | 100 | 10 | 3800 | **161 567 005** | **161 567 025** | 2.235 |
| 140 | 5 | 125 | 10 | 8600 | **161 567 006** | **161 567 026** | 2.799 |
| 160 | 6 | 150 | 10 | 11400 | **161 567 007** | **161 567 027** | 3.791 |
| 225 | 8 | 200 | 10 | 19900 | **161 567 008** | **161 567 028** | 6.570 |
| 280 | 10 | 250 | 6 | 34000 | **161 567 009** | **161 567 029** | 12.998 |
| 315 | 12 | 300 | 6 | 50000 | **161 567 010** | **161 567 030** | 19.139 |

| d (mm) | Hmax (mm) | Lmax (mm) | Wmax (mm) | U (mm) | V (mm) | H4 (mm) | V1 (mm) | Lg (mm) | D2 (mm) | Q1 (mm) | Q2 (mm) | Y (mm) | M1 (mm) | M2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 278.9 | 115.2 | 269.0 | 90 | 133.3 | 23 | 78.8 | 45 | 104 | 40 | | 66.8 | 64.7 | 205.5 |
| 75 | 291.8 | 115.2 | 271.8 | 90 | 139.9 | 23 | 85.1 | 46 | 115 | 54 | 35 | 66.8 | 64.7 | 205.5 |
| 90 | 303.6 | 115.2 | 273.9 | 90 | 145.6 | 23 | 91.2 | 49 | 131 | 67 | 50 | 66.8 | 64.7 | 205.5 |
| 110 | 342.2 | 115.2 | 336.0 | 90 | 166.4 | 23 | 105.7 | 56 | 161 | 88 | 74 | 70.1 | 64.9 | 255.5 |
| 140 | 368.9 | 115.2 | 349.0 | 90 | 180.0 | 23 | 118.8 | 64 | 187 | 113 | 97 | 70.1 | 64.9 | 255.5 |
| 160 | 390.0 | 115.2 | 363.0 | 90 | 189.0 | 23 | 130.9 | 72 | 215 | 139 | 123 | 70.1 | 64.9 | 255.5 |
| 225 | 455.1 | 149.4 | 543.0 | 90 | 210.5 | 23 | 158.3 | 73 | 267 | 178 | 169 | 86.3 | 103.6 | 409.5 |
| 280 | 555.0 | 149.4 | 574.0 | 125 | 262.6 | 23 | 206.1 | 113 | 329 | 210 | 207 | 86.3 | 103.6 | 409.5 |
| 315 | 599.4 | 149.4 | 599.7 | 125 | 284.3 | 23 | 228.8 | 113 | 379 | 256 | 253 | 86.3 | 103.6 | 409.5 |



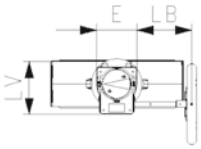
## Wafer-style intermediate installation butterfly valve type 567 PVC-U
## With gear box
## Flange standard metric/ANSI/BS/JIS

**Model:**

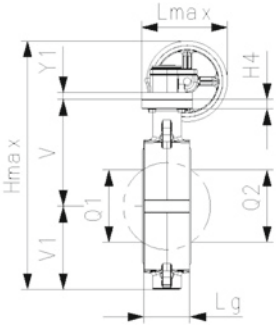
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

**Note:**

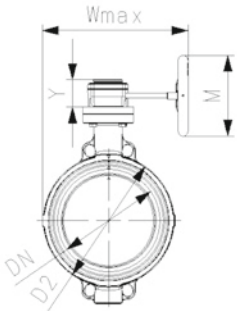
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com




| d (mm) | Size (inch) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 63 | 2 | 50 | 10 | 740 | **161 567 042** | 3.078 | **161 567 062** | 3.082 |
| 75 | 2 ½ | 65 | 10 | 1500 | **161 567 043** | 3.181 | **161 567 063** | 3.186 |
| 90 | 3 | 80 | 10 | 2400 | **161 567 044** | 3.346 | **161 567 064** | 3.353 |
| 110 | 4 | 100 | 10 | 3800 | **161 567 045** | 4.022 | **161 567 065** | 3.973 |
| 140 | 5 | 125 | 10 | 8600 | **161 567 046** | 4.185 | **161 567 066** | 4.544 |
| 160 | 6 | 150 | 10 | 11400 | **161 567 047** | 5.174 | **161 567 067** | 5.181 |
| 225 | 8 | 200 | 10 | 19900 | **161 567 048** | 7.072 | **161 567 068** | 8.339 |
| 280 | 10 | 250 | 10 | 34000 | **161 567 049** | 14.741 | **161 567 069** | 15.115 |
| 315 | 12 | 300 | 10 | 50000 | **161 567 050** | 19.254 | **161 567 070** | 35.000 |




| d (mm) | Hmax (mm) | Lmax (mm) | Wmax (mm) | V (mm) | H4 (mm) | V1 (mm) | Lg (mm) | D2 (mm) | Q1 (mm) | Q2 (mm) | Y (mm) | E (mm) | Y1 (mm) | M (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 319.4 | 169.1 | 240.2 | 133.3 | 23 | 78.8 | 45 | 104 | 40 | | 61.2 | 80 | | 160 |
| 75 | 332.3 | 169.1 | 247.3 | 139.9 | 23 | 85.1 | 46 | 115 | 54 | 35 | 61.2 | 80 | | 160 |
| 90 | 344.1 | 169.1 | 249.4 | 145.6 | 23 | 91.2 | 49 | 131 | 67 | 50 | 61.2 | 80 | | 160 |
| 110 | 379.4 | 169.1 | 261.5 | 166.4 | 23 | 105.7 | 56 | 161 | 88 | 74 | 61.2 | 80 | | 160 |
| 140 | 406.1 | 169.1 | 274.5 | 180.0 | 23 | 118.8 | 64 | 187 | 113 | 97 | 61.2 | 80 | | 160 |
| 160 | 427.2 | 169.1 | 288.5 | 189.0 | 23 | 130.9 | 72 | 215 | 139 | 123 | 61.2 | 80 | | 160 |
| 225 | 476.1 | 169.1 | 267.0 | 210.5 | 23 | 158.3 | 73 | 267 | 178 | 169 | 61.2 | 80 | | 160 |
| 280 | 613.0 | 212.6 | 329.0 | 262.6 | 23 | 206.1 | 113 | 329 | 210 | 207 | 68.4 | 100 | 17 | 200 |
| 315 | 657.4 | 212.6 | 380.4 | 284.3 | 23 | 228.8 | 113 | 379 | 256 | 253 | 68.4 | 100 | 17 | 200 |




| d (mm) | LV (mm) | LB (mm) |
|---|---|---|
| 63 | 112.3 | 129.5 |
| 75 | 112.3 | 129.5 |
| 90 | 112.3 | 129.5 |
| 110 | 112.3 | 129.5 |
| 140 | 112.3 | 129.5 |
| 160 | 112.3 | 129.5 |
| 225 | 112.3 | 129.5 |
| 280 | 130.0 | 134.0 |
| 315 | 130.0 | 134.0 |



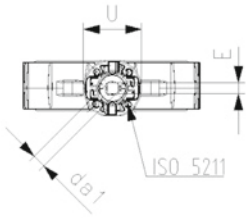
## Wafer-style intermediate installation butterfly valve type 567 PVC-U
## Bare shaft
## Flange standard metric/ANSI/BS/JIS

**Model:**

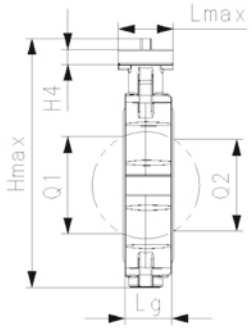
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Interface F07 for the dimensions DN50-200 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211

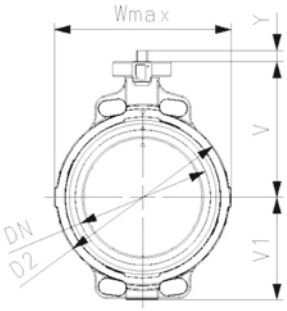
**Note:**

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com




| d (mm) | Size (inch) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 63 | 2 | 50 | 10 | 740 | **161 567 802** | 0.778 | **161 567 822** | 0.787 |
| 75 | 2 ½ | 65 | 10 | 1500 | **161 567 803** | 0.921 | **161 567 823** | 0.895 |
| 90 | 3 | 80 | 10 | 2400 | **161 567 804** | 1.052 | **161 567 824** | 1.068 |
| 110 | 4 | 100 | 10 | 3800 | **161 567 805** | 1.641 | **161 567 825** | 2.092 |
| 140 | 5 | 125 | 10 | 8600 | **161 567 806** | 2.266 | **161 567 826** | 2.236 |
| 160 | 6 | 150 | 10 | 11400 | **161 567 807** | 3.179 | **161 567 827** | 3.238 |
| 225 | 8 | 200 | 10 | 19900 | **161 567 808** | 5.063 | **161 567 828** | 5.127 |
| 280 | 10 | 250 | 10 | 34000 | **161 567 809** | 11.588 | **161 567 829** | 11.735 |
| 315 | 12 | 300 | 10 | 50000 | **161 567 810** | 16.050 | **161 567 830** | 15.936 |




| d (mm) | Hmax (mm) | Lmax (mm) | Wmax (mm) | U (mm) | V (mm) | H4 (mm) | V1 (mm) | Lg (mm) | D2 (mm) | Q1 (mm) | Q2 (mm) | Y (mm) | E (mm) | da1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 238.3 | 84.8 | 118.4 | 90 | 133.3 | 23 | 78.8 | 45 | 104 | 40 | | 26.2 | 11 | 13.5 |
| 75 | 251.2 | 84.8 | 132.5 | 90 | 139.9 | 23 | 85.1 | 46 | 115 | 54 | 35 | 26.2 | 11 | 13.5 |
| 90 | 263.0 | 84.8 | 136.8 | 90 | 145.6 | 23 | 91.2 | 49 | 131 | 67 | 50 | 26.2 | 11 | 13.5 |
| 110 | 287.5 | 84.8 | 161.0 | 90 | 166.4 | 23 | 105.7 | 56 | 161 | 88 | 74 | 15.4 | 14 | 17.3 |
| 140 | 314.2 | 84.8 | 187.0 | 90 | 180.0 | 23 | 118.8 | 64 | 187 | 113 | 97 | 15.4 | 14 | 17.3 |
| 160 | 338.3 | 84.8 | 215.0 | 90 | 189.0 | 23 | 130.9 | 72 | 215 | 139 | 123 | 18.4 | 17 | 21.1 |
| 225 | 387.2 | 84.8 | 267.0 | 90 | 210.5 | 23 | 158.3 | 73 | 267 | 178 | 169 | 18.4 | 17 | 21.1 |
| 280 | 508.9 | 125.0 | 329.0 | 125 | 262.6 | 23 | 206.1 | 113 | 329 | 210 | 207 | 40.2 | 22 | 27.0 |
| 315 | 553.3 | 125.0 | 380.4 | 125 | 284.3 | 23 | 228.8 | 113 | 379 | 256 | 253 | 40.2 | 22 | 27.0 |



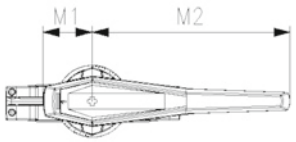
## Lug-style end installation butterfly valve type 578 PVC-U
## With hand lever
## Flange standard metric

**Model:**

- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

**Option:**

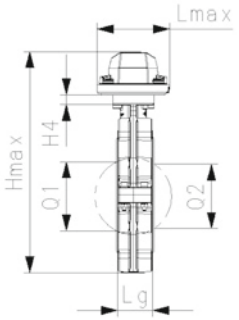
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)



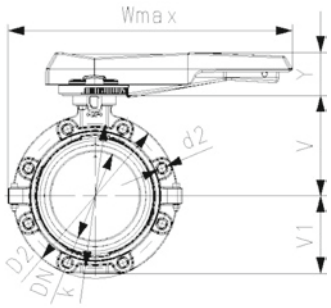

**Note:**

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

| d (mm) | Size (inch) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 63 | 2 | 50 | 10 | 740 | **161 578 002** | 1.800 | **161 578 022** | 1.800 |
| 75 | 2 ½ | 65 | 10 | 1500 | **161 578 003** | 1.895 | **161 578 023** | 1.895 |
| 90 | 3 | 80 | 10 | 2400 | **161 578 004** | 2.251 | **161 578 024** | 2.251 |
| 110 | 4 | 100 | 10 | 3800 | **161 578 005** | 3.146 | **161 578 025** | 3.146 |
| 140 | 5 | 125 | 10 | 8600 | **161 578 006** | 4.660 | **161 578 026** | 4.660 |
| 160 | 6 | 150 | 10 | 11400 | **161 578 007** | 6.430 | **161 578 027** | 6.430 |
| 225 | 8 | 200 | 10 | 19900 | **161 578 008** | 8.625 | **161 578 028** | 8.625 |
| 280 | 10 | 250 | 6 | 34000 | **161 578 009** | 19.528 | **161 578 029** | 19.528 |
| 315 | 12 | 300 | 6 | 50000 | **161 578 010** | 26.106 | **161 578 030** | 26.106 |




| d (mm) | Hmax (mm) | Lmax (mm) | Wmax (mm) | U (mm) | V (mm) | H4 (mm) | V1 (mm) | Lg (mm) | D2 (mm) | Q1 (mm) | Q2 (mm) | d2 | Y (mm) | M1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 278.9 | 115.2 | 287.8 | 90 | 133.3 | 23 | 78.8 | 44.7 | 160 | 40 | | M16 | 66.8 | 63.7 |
| 75 | 291.8 | 115.2 | 296.3 | 90 | 139.9 | 23 | 85.1 | 45.7 | 180 | 54 | 35 | M16 | 66.8 | 63.7 |
| 90 | 303.6 | 115.2 | 310.3 | 90 | 145.6 | 23 | 91.2 | 48.7 | 195 | 67 | 50 | M16 | 66.8 | 63.7 |
| 110 | 343.6 | 115.2 | 375.2 | 90 | 166.0 | 23 | 107.5 | 55.6 | 226 | 88 | 74 | M16 | 70.1 | 63.7 |
| 140 | 372.8 | 115.2 | 391.2 | 90 | 180.0 | 23 | 122.7 | 63.5 | 258 | 113 | 97 | M16 | 70.1 | 63.7 |
| 160 | 393.6 | 115.2 | 395.2 | 90 | 189.0 | 23 | 134.5 | 71.5 | 284 | 139 | 123 | M20 | 70.1 | 63.7 |
| 225 | 458.1 | 149.4 | 588.1 | 90 | 210.5 | 23 | 161.5 | 72.5 | 341 | 178 | 169 | M20 | 86.1 | 101.7 |
| 280 | 557.6 | 149.4 | 628.1 | 125 | 264.4 | 23 | 206.9 | 113.2 | 412 | 210 | 207 | M20 | 86.3 | 101.7 |
| 315 | 607.0 | 149.4 | 663.1 | 125 | 285.2 | 23 | 235.5 | 114.6 | 482 | 256 | 253 | M20 | 86.3 | 101.7 |




| d (mm) | M2 (mm) |
|---|---|
| 63 | 205.3 |
| 75 | 205.3 |
| 90 | 205.3 |
| 110 | 255.2 |
| 140 | 255.2 |
| 160 | 255.2 |
| 225 | 408.1 |
| 280 | 408.1 |
| 315 | 408.1 |



## Lug-style end installation butterfly valve type 578 PVC-U
## With gear box
## Flange standard metric

**Model:**

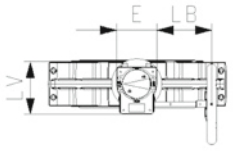
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

**Option:**

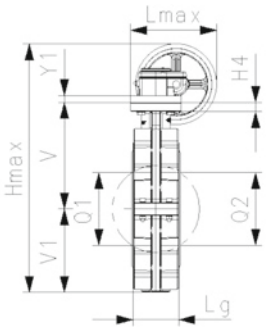
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

**Note:**

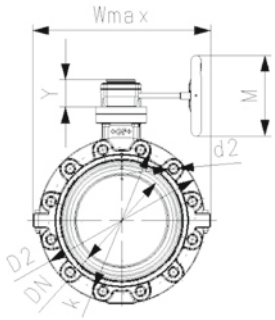
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com




| d (mm) | Size (inch) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 63 | 2 | 50 | 10 | 740 | **161 578 042** | 3.522 | **161 578 062** | 3.522 |
| 75 | 2 ½ | 65 | 10 | 1500 | **161 578 043** | 3.672 | **161 578 063** | 3.672 |
| 90 | 3 | 80 | 10 | 2400 | **161 578 044** | 3.929 | **161 578 064** | 3.929 |
| 110 | 4 | 100 | 10 | 3800 | **161 578 045** | 4.834 | **161 578 065** | 4.834 |
| 140 | 5 | 125 | 10 | 8600 | **161 578 046** | 6.348 | **161 578 066** | 6.348 |
| 160 | 6 | 150 | 10 | 11400 | **161 578 047** | 8.109 | **161 578 067** | 8.109 |
| 225 | 8 | 200 | 10 | 19900 | **161 578 048** | 9.353 | **161 578 068** | 9.353 |
| 280 | 10 | 250 | 10 | 34000 | **161 578 049** | 21.210 | **161 578 069** | 21.210 |
| 315 | 12 | 300 | 10 | 50000 | **161 578 050** | 27.746 | **161 578 070** | 27.746 |




| d (mm) | Hmax (mm) | Wmax (mm) | Lmax (mm) | U (mm) | V (mm) | H4 (mm) | V1 (mm) | Lg (mm) | D2 (mm) | Q1 (mm) | Q2 (mm) | d2 | Y (mm) | E (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 319.4 | 169.1 | 263.5 | 90 | 133.3 | 23 | 78.8 | 44.7 | 160 | 40 | | M16 | 61.2 | 80 |
| 75 | 332.3 | 169.1 | 272.0 | 90 | 139.9 | 23 | 85.1 | 45.7 | 180 | 54 | 35 | M16 | 61.2 | 80 |
| 90 | 344.1 | 169.1 | 286.0 | 90 | 145.6 | 23 | 91.2 | 48.7 | 195 | 67 | 50 | M16 | 61.2 | 80 |
| 110 | 380.8 | 169.1 | 301.0 | 90 | 166.0 | 23 | 107.5 | 55.6 | 226 | 88 | 74 | M16 | 61.2 | 80 |
| 140 | 410.0 | 169.1 | 317.0 | 90 | 180.0 | 23 | 122.7 | 63.5 | 258 | 113 | 97 | M16 | 61.2 | 80 |
| 160 | 430.8 | 169.1 | 321.0 | 90 | 189.0 | 23 | 134.5 | 71.5 | 284 | 139 | 123 | M20 | 61.2 | 80 |
| 225 | 479.3 | 169.1 | 360.0 | 90 | 210.5 | 23 | 161.5 | 72.5 | 341 | 178 | 169 | M20 | 61.2 | 80 |
| 280 | 615.6 | 212.6 | 440.0 | 125 | 264.4 | 23 | 206.9 | 113.2 | 412 | 210 | 207 | M20 | 68.4 | 100 |
| 315 | 665.0 | 212.6 | 510.0 | 125 | 285.2 | 23 | 235.5 | 114.6 | 482 | 256 | 253 | M20 | 68.4 | 100 |




| d (mm) | Y1 (mm) | M (mm) | LV (mm) | LB (mm) |
|---|---|---|---|---|
| 63 | | 160 | 112.3 | 129.5 |
| 75 | | 160 | 112.3 | 129.5 |
| 90 | | 160 | 112.3 | 129.5 |
| 110 | | 160 | 112.3 | 129.5 |
| 140 | | 160 | 112.3 | 129.5 |
| 160 | | 160 | 112.3 | 129.5 |
| 225 | | 160 | 112.3 | 129.5 |
| 280 | 17 | 200 | 130.0 | 134.0 |
| 315 | 17 | 200 | 130.0 | 134.0 |



## Lug-style end installation butterfly valve type 578 PVC-U
## Bare shaft
## Flange standard metric

**Model:**

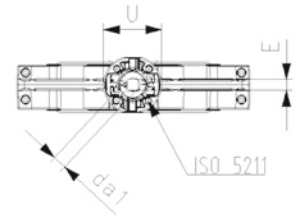
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Interface F07 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211

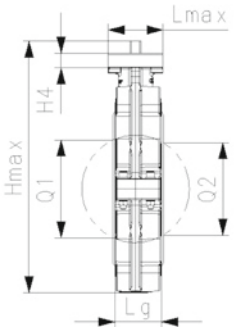
**Option:**

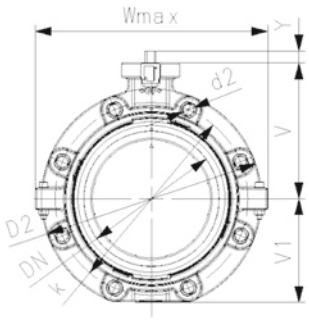
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

**Note:**

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com




| d (mm) | Size (inch) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 63 | 2 | 50 | 10 | 740 | **161 578 802** | 1.299 | **161 578 822** | 1.299 |
| 75 | 2 ½ | 65 | 10 | 1500 | **161 578 803** | 1.456 | **161 578 823** | 1.456 |
| 90 | 3 | 80 | 10 | 2400 | **161 578 804** | 1.701 | **161 578 824** | 1.701 |
| 110 | 4 | 100 | 10 | 3800 | **161 578 805** | 2.606 | **161 578 825** | 2.606 |
| 140 | 5 | 125 | 10 | 8600 | **161 578 806** | 4.120 | **161 578 826** | 4.120 |
| 160 | 6 | 150 | 10 | 11400 | **161 578 807** | 5.881 | **161 578 827** | 5.881 |
| 225 | 8 | 200 | 10 | 19900 | **161 578 808** | 7.125 | **161 578 828** | 7.125 |
| 280 | 10 | 250 | 10 | 34000 | **161 578 809** | 17.880 | **161 578 829** | 17.880 |
| 315 | 12 | 300 | 10 | 50000 | **161 578 810** | 24.416 | **161 578 830** | 24.416 |

| d (mm) | Hmax (mm) | Lmax (mm) | Wmax (mm) | U (mm) | V (mm) | H4 (mm) | V1 (mm) | Lg (mm) | D2 (mm) | Q1 (mm) | Q2 (mm) | d2 | Y (mm) | E (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 238.3 | 84.8 | 159.5 | 90 | 133.3 | 23 | 78.8 | 44.7 | 160 | 40 | | M16 | 26.2 | 11 |
| 75 | 251.2 | 84.8 | 166.1 | 90 | 139.9 | 23 | 85.1 | 45.7 | 180 | 54 | 35 | M16 | 26.2 | 11 |
| 90 | 263.0 | 84.8 | 171.8 | 90 | 145.6 | 23 | 91.2 | 48.7 | 195 | 67 | 50 | M16 | 15.4 | 11 |
| 110 | 288.9 | 84.8 | 181.4 | 90 | 166.0 | 23 | 107.5 | 55.6 | 226 | 88 | 74 | M16 | 15.4 | 14 |
| 140 | 318.1 | 84.8 | 195.4 | 90 | 180.0 | 23 | 122.7 | 63.5 | 258 | 113 | 97 | M16 | 15.4 | 14 |
| 160 | 341.9 | 84.8 | 207.4 | 90 | 189.0 | 23 | 134.5 | 71.5 | 284 | 139 | 123 | M20 | 18.4 | 17 |
| 225 | 390.4 | 84.8 | 228.9 | 90 | 210.5 | 23 | 161.5 | 72.5 | 341 | 178 | 169 | M20 | 18.4 | 17 |
| 280 | 511.5 | 125.0 | 304.6 | 125 | 264.4 | 23 | 206.9 | 113.2 | 412 | 210 | 207 | M20 | 40.2 | 22 |
| 315 | 560.9 | 125.0 | 325.4 | 125 | 285.2 | 23 | 235.5 | 114.6 | 482 | 256 | 253 | M20 | 40.2 | 22 |

| d (mm) | da1 (mm) |
|---|---|
| 63 | 13.5 |
| 75 | 13.5 |
| 90 | 13.5 |
| 110 | 17.3 |
| 140 | 17.3 |
| 160 | 21.1 |
| 225 | 21.1 |
| 280 | 27.0 |
| 315 | 27.0 |



## Lug-style end installation butterfly valve type 578 PVC-C
## Bare shaft
## Flange standard metric

**Model:**

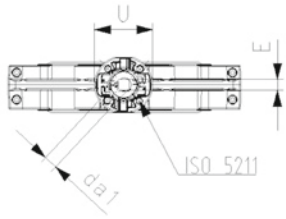
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Interface F07 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211

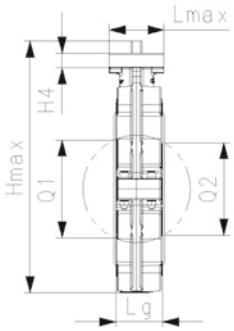
**Option:**

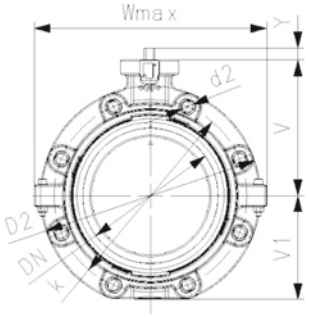
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

**Note:**

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com




| d (mm) | Size (inch) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 63 | 2 | 50 | 10 | 740 | **163 578 802** | 1.299 | **163 578 822** | 1.299 |
| 75 | 2 ½ | 65 | 10 | 1500 | **163 578 803** | 1.456 | **163 578 823** | 1.456 |
| 90 | 3 | 80 | 10 | 2400 | **163 578 804** | 1.701 | **163 578 824** | 1.701 |
| 110 | 4 | 100 | 10 | 3800 | **163 578 805** | 2.606 | **163 578 825** | 2.606 |
| 140 | 5 | 125 | 10 | 8600 | **163 578 806** | 4.120 | **163 578 826** | 4.120 |
| 160 | 6 | 150 | 10 | 11400 | **163 578 807** | 5.881 | **163 578 827** | 5.881 |
| 225 | 8 | 200 | 10 | 19900 | **163 578 808** | 7.125 | **163 578 828** | 7.125 |
| 280 | 10 | 250 | 10 | 34000 | **163 578 809** | 17.880 | **163 578 829** | 17.880 |
| 315 | 12 | 300 | 10 | 50000 | **163 578 810** | 24.416 | **163 578 830** | 24.416 |

| d (mm) | Hmax (mm) | Lmax (mm) | Wmax (mm) | U (mm) | V (mm) | H4 (mm) | V1 (mm) | Lg (mm) | D2 (mm) | Q1 (mm) | Q2 (mm) | d2 | da1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 238.3 | 84.8 | 159.5 | 90 | 133.3 | 23 | 78.8 | 160 | 160 | 40 | | M16 | 13.5 |
| 75 | 251.2 | 84.8 | 166.1 | 90 | 139.9 | 23 | 85.1 | 180 | 180 | 54 | 35 | M16 | 13.5 |
| 90 | 263.0 | 84.8 | 171.8 | 90 | 145.6 | 23 | 91.2 | 195 | 195 | 67 | 50 | M16 | 13.5 |
| 110 | 288.9 | 84.8 | 181.4 | 90 | 166.0 | 23 | 107.5 | 226 | 226 | 88 | 74 | M16 | 17.3 |
| 140 | 318.1 | 84.8 | 195.4 | 90 | 180.0 | 23 | 122.7 | 258 | 258 | 113 | 97 | M16 | 17.3 |
| 160 | 341.9 | 84.8 | 207.4 | 90 | 189.0 | 23 | 134.5 | 284 | 284 | 139 | 123 | M20 | 21.1 |
| 225 | 390.4 | 84.8 | 228.9 | 90 | 210.5 | 23 | 161.5 | 341 | 341 | 178 | 169 | M20 | 21.1 |
| 280 | 511.5 | 125.0 | 304.6 | 125 | 264.4 | 23 | 206.9 | 412 | 412 | 210 | 207 | M20 | 27.0 |
| 315 | 560.9 | 125.0 | 325.4 | 125 | 285.2 | 23 | 235.5 | 482 | 482 | 256 | 253 | M20 | 27.0 |



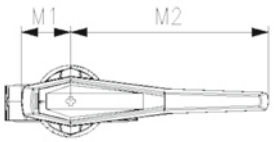
## Wafer-style intermediate installation butterfly valve type 567 PVC-C
## With hand lever
## Flange standard metric/ANSI/BS/JIS

**Model:**

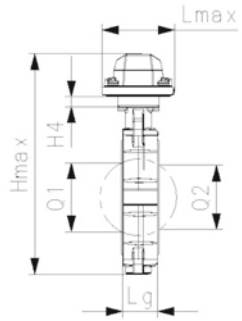
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

**Note:**

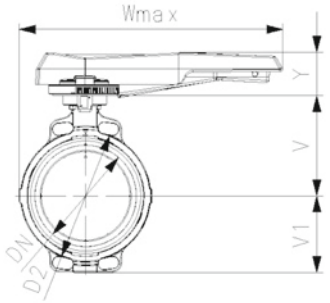
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com




| d (mm) | Size (inch) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 63 | 2 | 50 | 10 | 740 | **163 567 002** | 1.257 | **163 567 022** | 1.268 |
| 75 | 2 ½ | 65 | 10 | 1500 | **163 567 003** | 1.366 | **163 567 023** | 1.174 |
| 90 | 3 | 80 | 10 | 2400 | **163 567 004** | 1.542 | **163 567 024** | 1.997 |
| 110 | 4 | 100 | 10 | 3800 | **163 567 005** | 2.231 | **163 567 025** | 2.715 |
| 140 | 5 | 125 | 10 | 8600 | **163 567 006** | 2.820 | **163 567 026** | 2.536 |
| 160 | 6 | 150 | 10 | 11400 | **163 567 007** | 3.881 | **163 567 027** | 3.904 |
| 225 | 8 | 200 | 10 | 19900 | **163 567 008** | 5.873 | **163 567 028** | 6.803 |
| 280 | 10 | 250 | 10 | 34000 | **163 567 009** | 14.328 | **163 567 029** | 12.998 |
| 315 | 12 | 300 | 10 | 50000 | **163 567 010** | 18.899 | **163 567 030** | 19.139 |




| d (mm) | PTFE Code | Weight (kg) |
|---|---|---|
| 63 | **163 567 202** | 1.257 |
| 75 | **163 567 203** | 1.366 |
| 90 | **163 567 204** | 1.542 |
| 110 | **163 567 205** | 2.231 |
| 140 | **163 567 206** | 2.820 |
| 160 | **163 567 207** | 6.719 |
| 225 | **163 567 208** | 5.873 |
| 280 | | |
| 315 | | |




| d (mm) | Hmax (mm) | Lmax (mm) | Wmax (mm) | U (mm) | V (mm) | H4 (mm) | V1 (mm) | Lg (mm) | D2 (mm) | Q1 (mm) | Q2 (mm) | Y (mm) | M1 (mm) | M2 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 278.9 | 115.2 | 269.0 | 90 | 133.3 | 23 | 78.8 | 45 | 104 | 40 | | 66.8 | 64.7 | 205.5 |
| 75 | 291.8 | 115.2 | 271.8 | 90 | 139.9 | 23 | 85.1 | 46 | 115 | 54 | 35 | 66.8 | 64.7 | 205.5 |
| 90 | 303.6 | 115.2 | 273.9 | 90 | 145.6 | 23 | 91.2 | 49 | 131 | 67 | 50 | 66.8 | 64.7 | 205.5 |
| 110 | 342.2 | 115.2 | 336.0 | 90 | 166.4 | 23 | 105.7 | 56 | 161 | 88 | 74 | 70.1 | 64.9 | 255.5 |
| 140 | 368.9 | 115.2 | 349.0 | 90 | 180.0 | 23 | 118.8 | 64 | 187 | 113 | 97 | 70.1 | 64.9 | 255.5 |
| 160 | 390.0 | 115.2 | 363.0 | 90 | 189.0 | 23 | 130.9 | 72 | 215 | 139 | 123 | 70.1 | 64.9 | 255.5 |
| 225 | 455.1 | 149.4 | 543.0 | 90 | 210.5 | 23 | 158.3 | 73 | 267 | 178 | 169 | 86.3 | 103.6 | 409.5 |
| 280 | 555.0 | 149.4 | 574.0 | 125 | 262.6 | 23 | 206.1 | 113 | 329 | 210 | 207 | 86.3 | 103.6 | 409.5 |
| 315 | 599.4 | 149.4 | 599.7 | 125 | 284.3 | 23 | 228.8 | 113 | 379 | 256 | 253 | 86.3 | 103.6 | 409.5 |



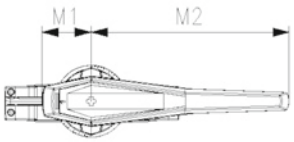
## Lug-style end installation butterfly valve type 578 PVC-C
## With hand lever
## Flange standard ANSI/ASME

**Model:**

- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension ANSI/ASME B 16.5 Class 150
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

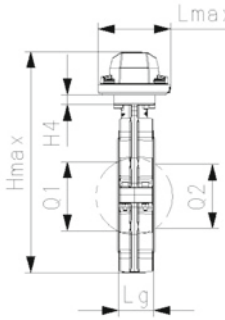
**Option:**

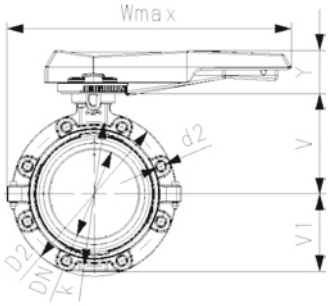
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)




**Note:**

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com




| d (mm) | Size (inch) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 63 | 2 | 50 | 10 | 740 | **163 578 102** | 1.800 | **163 578 122** | 1.800 |
| 75 | 2 ½ | 65 | 10 | 1500 | **163 578 103** | 1.895 | **163 578 123** | 1.895 |
| 90 | 3 | 80 | 10 | 2400 | **163 578 104** | 2.251 | **163 578 124** | 2.251 |
| 110 | 4 | 100 | 10 | 3800 | **163 578 105** | 3.146 | **163 578 125** | 3.146 |
| 140 | 5 | 125 | 10 | 8600 | **163 578 106** | 4.660 | **163 578 126** | 4.660 |
| 160 | 6 | 150 | 10 | 11400 | **163 578 107** | 6.430 | **163 578 127** | 6.430 |
| 225 | 8 | 200 | 10 | 19900 | **163 578 108** | 8.625 | **163 578 128** | 8.625 |
| 280 | 10 | 250 | 6 | 34000 | **163 578 109** | 19.528 | **163 578 129** | 19.528 |
| 315 | 12 | 300 | 6 | 50000 | **163 578 110** | 26.106 | **163 578 130** | 26.106 |

| d (mm) | Hmax (mm) | Lmax (mm) | Wmax (mm) | U (mm) | V (mm) | H4 (mm) | V1 (mm) | Lg (mm) | D2 (mm) | Q1 (mm) | Q2 (mm) | d2 | M1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 278.9 | 115.2 | 287.8 | 90 | 133.3 | 23 | 78.8 | 44.7 | 160 | 40 | | UNC 5/8 | 63.7 |
| 75 | 291.8 | 115.2 | 296.3 | 90 | 139.9 | 23 | 85.1 | 45.7 | 180 | 54 | 35 | UNC 5/8 | 63.7 |
| 90 | 303.6 | 115.2 | 310.3 | 90 | 145.6 | 23 | 91.2 | 48.7 | 195 | 67 | 50 | UNC 5/8 | 63.7 |
| 110 | 343.6 | 115.2 | 375.2 | 90 | 166.0 | 23 | 107.5 | 55.6 | 226 | 88 | 74 | UNC 5/8 | 63.7 |
| 140 | 372.8 | 115.2 | 391.2 | 90 | 180.0 | 23 | 122.7 | 63.5 | 258 | 113 | 97 | UNC 3/4 | 63.7 |
| 160 | 393.6 | 115.2 | 395.2 | 90 | 189.0 | 23 | 134.5 | 71.5 | 284 | 139 | 123 | UNC 3/4 | 63.7 |
| 225 | 458.1 | 149.4 | 588.1 | 90 | 210.5 | 23 | 161.5 | 72.5 | 341 | 178 | 169 | UNC 3/4 | 101.7 |
| 280 | 557.6 | 149.4 | 628.1 | 125 | 264.4 | 23 | 206.9 | 113.2 | 412 | 210 | 207 | UNC 7/8 | 101.7 |
| 315 | 607.0 | 149.4 | 663.1 | 125 | 285.2 | 23 | 235.5 | 114.6 | 482 | 256 | 253 | UNC 7/8 | 101.7 |

| d (mm) | M2 (mm) |
|---|---|
| 63 | 205.6 |
| 75 | 205.6 |
| 90 | 205.6 |
| 110 | 255.2 |
| 140 | 255.2 |
| 160 | 255.2 |
| 225 | 408.1 |
| 280 | 408.1 |
| 315 | 408.1 |



## Lug-style end installation butterfly valve type 578 PVC-C
## With gear box
## Flange standard metric

**Model:**

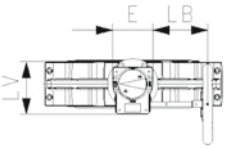
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

**Option:**

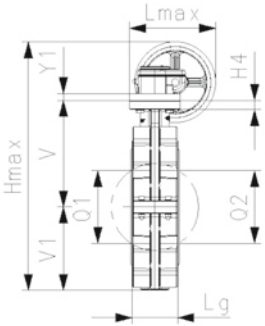
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

**Note:**

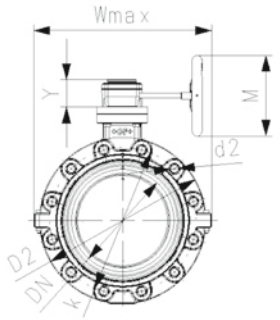
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com




| d (mm) | Size (inch) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 63 | 2 | 50 | 10 | 740 | **163 578 042** | 3.535 | **163 578 062** | 3.535 |
| 75 | 2 ½ | 65 | 10 | 1500 | **163 578 043** | 3.698 | **163 578 063** | 3.698 |
| 90 | 3 | 80 | 10 | 2400 | **163 578 044** | 3.929 | **163 578 064** | 3.929 |
| 110 | 4 | 100 | 10 | 3800 | **163 578 045** | 4.834 | **163 578 065** | 4.834 |
| 140 | 5 | 125 | 10 | 8600 | **163 578 046** | 6.348 | **163 578 066** | 6.348 |
| 160 | 6 | 150 | 10 | 11400 | **163 578 047** | 8.109 | **163 578 067** | 8.109 |
| 225 | 8 | 200 | 10 | 19900 | **163 578 048** | 9.353 | **163 578 068** | 9.353 |
| 280 | 10 | 250 | 10 | 34000 | **163 578 049** | 21.210 | **163 578 069** | 21.210 |
| 315 | 12 | 300 | 10 | 50000 | **163 578 050** | 27.746 | **163 578 070** | 27.746 |




| d (mm) | Hmax (mm) | Lmax (mm) | Wmax (mm) | U (mm) | V (mm) | H4 (mm) | V1 (mm) | Lg (mm) | D2 (mm) | Q1 (mm) | Q2 (mm) | d2 | Y (mm) | E (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 319.4 | 169.1 | 263.5 | 90 | 133.3 | 23 | 78.8 | 44.7 | 160 | 40 | | M16 | 61.2 | 80 |
| 75 | 332.3 | 169.1 | 272.0 | 90 | 139.9 | 23 | 85.1 | 45.7 | 180 | 54 | 35 | M16 | 61.2 | 80 |
| 90 | 344.1 | 169.1 | 286.0 | 90 | 145.6 | 23 | 91.2 | 48.7 | 195 | 67 | 50 | M16 | 61.2 | 80 |
| 110 | 380.8 | 169.1 | 301.0 | 90 | 166.0 | 23 | 107.5 | 55.6 | 226 | 88 | 74 | M16 | 61.2 | 80 |
| 140 | 410.0 | 169.1 | 317.0 | 90 | 180.0 | 23 | 122.7 | 63.5 | 258 | 113 | 97 | M16 | 61.2 | 80 |
| 160 | 430.8 | 169.1 | 321.0 | 90 | 189.0 | 23 | 134.5 | 71.5 | 284 | 139 | 123 | M20 | 61.2 | 80 |
| 225 | 479.3 | 169.1 | 360.0 | 90 | 210.5 | 23 | 161.5 | 72.5 | 341 | 178 | 169 | M20 | 61.2 | 80 |
| 280 | 615.6 | 212.6 | 440.0 | 125 | 264.4 | 23 | 206.9 | 113.2 | 412 | 210 | 207 | M20 | 68.4 | 100 |
| 315 | 665.0 | 212.6 | 510.0 | 125 | 285.2 | 23 | 235.5 | 114.6 | 482 | 256 | 253 | M20 | 68.4 | 100 |




| d (mm) | Y1 (mm) | M (mm) | LV (mm) | LB (mm) |
|---|---|---|---|---|
| 63 | | 160 | 112.3 | 129.5 |
| 75 | | 160 | 112.3 | 129.5 |
| 90 | | 160 | 112.3 | 129.5 |
| 110 | | 160 | 112.3 | 129.5 |
| 140 | | 160 | 112.3 | 129.5 |
| 160 | | 160 | 112.3 | 129.5 |
| 225 | | 160 | 112.3 | 129.5 |
| 280 | 17.0 | 200 | 130.0 | 134.0 |
| 315 | 17.0 | 200 | 130.0 | 134.0 |

# Type 565 Lug



**Lug-style end installation butterfly valve type 565L PVDF/PA-GF**
**Reduction gear with hand wheel**
**Flange standard ISO/Metric**
**Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems**

**Model:**

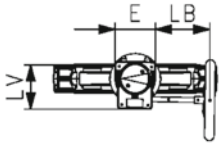
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

**Option:**

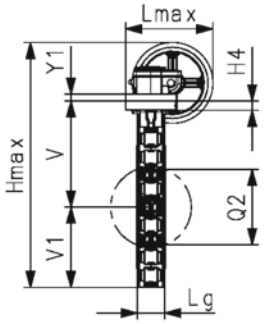
- Individual configuration of the valve possible
- Hand (lockable hand lever), pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

**Note:**

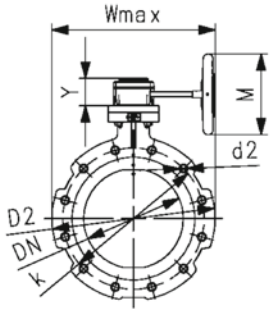
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com




| d (mm) | DN (mm) | Size (inch) | PN (bar) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 16 | **199 575 200** | 3.009 | **199 575 220** | 3.078 |
| 75 | 65 | 2 ½ | 16 | **199 575 201** | 3.243 | **199 575 221** | 3.345 |
| 90 | 80 | 3 | 16 | **199 575 202** | 3.413 | **199 575 222** | 3.536 |
| 110 | 100 | 4 | 16 | **199 575 203** | 4.152 | **199 575 223** | 4.328 |
| 140 | 125 | 5 | 16 | **199 575 204** | 4.721 | **199 575 224** | 4.981 |
| 160 | 150 | 6 | 16 | **199 575 205** | 5.493 | **199 575 225** | 5.811 |
| 225 | 200 | 8 | 10 | **199 575 206** | 6.740 | **199 575 226** | 7.196 |
| 280 | 250 | 10 | 10 | **199 575 207** | 12.739 | **199 575 227** | 13.419 |
| 315 | 300 | 12 | 6 | **199 575 208** | 16.516 | **199 575 228** | 17.646 |




| d (mm) | DN (mm) | Hmax (mm) | Lmax (mm) | Wmax (mm) | V (mm) | V1 (mm) | Y (mm) | Lg (mm) | Q2 (mm) | k (mm) | d2 | D2 (mm) | H4 (mm) | E (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 344.6 | 190.75 | 251.0 | 133.3 | 70.1 | 61.2 | 43 | 28.3 | 125 | M16 | 155 | 23 | 80 |
| 75 | 65 | 361.9 | 190.75 | 261.5 | 139.9 | 80.8 | 61.2 | 46 | 43.8 | 145 | M16 | 175 | 23 | 80 |
| 90 | 80 | 378.1 | 190.75 | 271.0 | 145.6 | 91.3 | 61.2 | 46 | 63.5 | 160 | M16 | 190 | 23 | 80 |
| 110 | 100 | 413.8 | 190.75 | 286.5 | 166.4 | 106.2 | 61.2 | 52 | 83.7 | 180 | M16 | 221 | 23 | 80 |
| 140 | 125 | 441.5 | 190.75 | 300.5 | 180.0 | 120.3 | 61.2 | 56 | 110.4 | 210 | M16 | 250 | 23 | 80 |
| 160 | 150 | 462.6 | 190.75 | 312.5 | 189.0 | 132.4 | 61.2 | 56 | 137.3 | 240 | M20 | 277 | 23 | 80 |
| 225 | 200 | 511.0 | 190.75 | 319.0 | 209.5 | 160.3 | 61.2 | 60 | 191.1 | 295 | M20 | 337 | 23 | 80 |
| 280 | 250 | 647.0 | 207.40 | 403.0 | 262.5 | 199.1 | 68.4 | 68 | 238.9 | 350 | M20 | 403 | 23 | 100 |
| 315 | 300 | 705.2 | 207.40 | 482.0 | 284.3 | 235.5 | 68.4 | 78 | 285.5 | 400 | M20 | 479 | 23 | 100 |




| d (mm) | DN (mm) | Y1 (mm) | M (mm) | LV (mm) | LB (mm) |
|---|---|---|---|---|---|
| 63 | 50 | | 160 | 112.3 | 129.5 |
| 75 | 65 | | 160 | 112.3 | 129.5 |
| 90 | 80 | | 160 | 112.3 | 129.5 |
| 110 | 100 | | 160 | 112.3 | 129.5 |
| 140 | 125 | | 160 | 112.3 | 129.5 |
| 160 | 150 | | 160 | 112.3 | 129.5 |
| 225 | 200 | | 160 | 112.3 | 129.5 |
| 280 | 250 | 17 | 200 | 130.0 | 134.0 |
| 315 | 300 | 17 | 200 | 130.0 | 134.0 |



## Lug-style end installation butterfly valve type 565L PVDF/PA-GF
## Bare Shaft
## Flange standard ISO/Metric
## Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

**Model:**

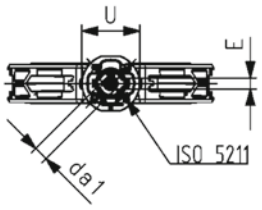
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

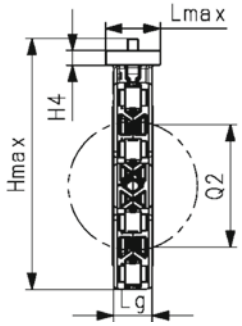
**Option:**

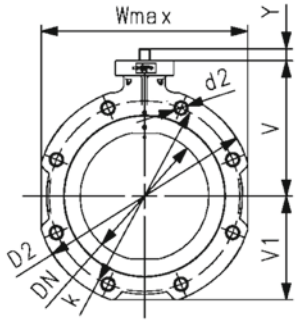
- Individual configuration of the valve possible
- Hand (lockable), pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

**Note:**

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com




| d (mm) | DN (mm) | Size (inch) | PN (bar) | Acc.to ISO 5211 | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 16 | F07 | **199 575 100** | 0.881 | **199 575 120** | 0.950 |
| 75 | 65 | 2 ½ | 16 | F07 | **199 575 101** | 1.115 | **199 575 121** | 1.217 |
| 90 | 80 | 3 | 16 | F07 | **199 575 102** | 1.285 | **199 575 122** | 1.408 |
| 110 | 100 | 4 | 16 | F07 | **199 575 103** | 2.024 | **199 575 123** | 2.200 |
| 140 | 125 | 5 | 16 | F07 | **199 575 104** | 2.593 | **199 575 124** | 2.853 |
| 160 | 150 | 6 | 16 | F07 | **199 575 105** | 3.743 | **199 575 125** | 3.791 |
| 225 | 200 | 8 | 10 | F07 | **199 575 106** | 4.720 | **199 575 126** | 5.176 |
| 280 | 250 | 10 | 10 | F10 | **199 575 107** | 8.837 | **199 575 127** | 9.517 |
| 315 | 300 | 12 | 6 | F10 | **199 575 108** | 12.614 | **199 575 128** | 13.744 |

| d (mm) | DN (mm) | Hmax (mm) | Lmax (mm) | Wmax (mm) | V (mm) | V1 (mm) | Y (mm) | Lg (mm) | Q2 (mm) | k (mm) | d2 | D2 (mm) | H4 (mm) | U (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 230.4 | 84.8 | 140 | 133.3 | 70.1 | 27 | 43 | 28.3 | 125 | M16 | 155 | 23 | 90 |
| 75 | 65 | 247.7 | 84.8 | 161 | 139.9 | 80.8 | 27 | 46 | 43.8 | 145 | M16 | 175 | 23 | 90 |
| 90 | 80 | 263.9 | 84.8 | 180 | 145.6 | 91.3 | 27 | 46 | 63.5 | 160 | M16 | 190 | 23 | 90 |
| 110 | 100 | 288.6 | 84.8 | 211 | 166.4 | 106.2 | 16 | 52 | 83.7 | 180 | M16 | 221 | 23 | 90 |
| 140 | 125 | 316.3 | 84.8 | 239 | 180.0 | 120.3 | 16 | 56 | 110.4 | 210 | M16 | 250 | 23 | 90 |
| 160 | 150 | 340.4 | 84.8 | 263 | 189.0 | 132.4 | 19 | 56 | 137.3 | 240 | M20 | 277 | 23 | 90 |
| 225 | 200 | 388.8 | 84.8 | 319 | 209.5 | 160.3 | 19 | 60 | 191.1 | 295 | M20 | 337 | 23 | 90 |
| 280 | 250 | 201.6 | 125.0 | 403 | 262.5 | 199.1 | 40 | 68 | 238.9 | 350 | M20 | 403 | 23 | 125 |
| 315 | 300 | 559.8 | 125.0 | 482 | 284.3 | 235.5 | 40 | 78 | 285.5 | 400 | M20 | 479 | 23 | 125 |

| d (mm) | DN (mm) | E (mm) | da1 (mm) |
|---|---|---|---|
| 63 | 50 | 11 | 14.1 |
| 75 | 65 | 11 | 14.1 |
| 90 | 80 | 11 | 14.1 |
| 110 | 100 | 14 | 18.1 |
| 140 | 125 | 14 | 18.1 |
| 160 | 150 | 17 | 22.2 |
| 225 | 200 | 17 | 22.2 |
| 280 | 250 | 22 | 28.2 |
| 315 | 300 | 22 | 28.2 |



## Lug-style end installation butterfly valve type 565L PVDF/PA-GF
## Bare Shaft
## Flange standard ANSI / ASTM / ASME
## Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

**Model:**

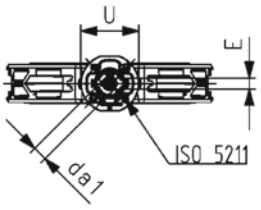
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

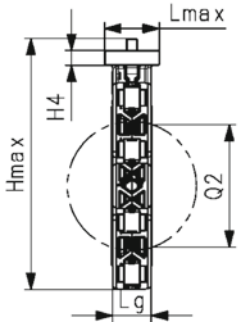
**Option:**

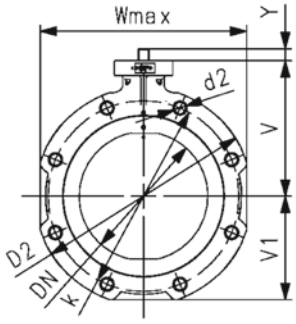
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

**Note:**

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com




| d (mm) | DN (mm) | Size (inch) | PN (bar) | Acc.to ISO 5211 | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 16 | F07 | **199 576 100** | 0.881 | **199 576 120** | 0.950 |
| 75 | 65 | 2 ½ | 16 | F07 | **199 576 101** | 1.115 | **199 576 121** | 1.217 |
| 90 | 80 | 3 | 16 | F07 | **199 576 102** | 1.285 | **199 576 122** | 1.408 |
| 110 | 100 | 4 | 16 | F07 | **199 576 103** | 2.024 | **199 576 123** | 2.200 |
| 140 | 125 | 5 | 16 | F07 | **199 576 104** | 2.593 | **199 576 124** | 2.853 |
| 160 | 150 | 6 | 16 | F07 | **199 576 105** | 3.743 | **199 576 125** | 3.791 |
| 225 | 200 | 8 | 10 | F07 | **199 576 106** | 4.720 | **199 576 126** | 5.176 |
| 280 | 250 | 10 | 10 | F10 | **199 576 107** | 8.837 | **199 576 127** | 9.517 |
| 315 | 300 | 12 | 6 | F10 | **199 576 108** | 12.614 | **199 576 128** | 13.744 |

| d (mm) | DN (mm) | Hmax (mm) | Lmax (mm) | Wmax (mm) | V (mm) | V1 (mm) | Y (mm) | Lg (mm) | Q2 (mm) | k (mm) | d2 | D2 (mm) | H4 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 230.4 | 84.8 | 140 | 133.3 | 70.1 | 27 | 43 | 28.3 | 120.7 | UNC 5/8 | 155 | 23 |
| 75 | 65 | 247.7 | 84.8 | 161 | 139.9 | 80.8 | 27 | 46 | 43.8 | 139.7 | UNC 5/8 | 175 | 23 |
| 90 | 80 | 263.9 | 84.8 | 180 | 145.6 | 91.3 | 27 | 46 | 63.5 | 152.4 | UNC 5/8 | 190 | 23 |
| 110 | 100 | 288.6 | 84.8 | 211 | 166.4 | 106.2 | 16 | 52 | 83.7 | 190.5 | UNC 5/8 | 221 | 23 |
| 140 | 125 | 316.3 | 84.8 | 239 | 180.0 | 120.3 | 16 | 56 | 110.4 | 215.9 | UNC 3/4 | 250 | 23 |
| 160 | 150 | 340.4 | 84.8 | 263 | 189.0 | 132.4 | 19 | 56 | 137.3 | 241.3 | UNC 3/4 | 277 | 23 |
| 225 | 200 | 388.8 | 84.8 | 319 | 209.5 | 160.3 | 19 | 60 | 191.1 | 298.5 | UNC 3/4 | 337 | 23 |
| 280 | 250 | 201.6 | 125.0 | 403 | 262.5 | 199.1 | 40 | 68 | 238.9 | 362.0 | UNC 7/8 | 403 | 23 |
| 315 | 300 | 559.8 | 125.0 | 482 | 284.3 | 235.5 | 40 | 78 | 285.5 | 431.8 | UNC 7/8 | 479 | 23 |

| d (mm) | DN (mm) | U (mm) | E (mm) | da1 (mm) |
|---|---|---|---|---|
| 63 | 50 | 90 | 11 | 14.1 |
| 75 | 65 | 90 | 11 | 14.1 |
| 90 | 80 | 90 | 11 | 14.1 |
| 110 | 100 | 90 | 14 | 18.1 |
| 140 | 125 | 90 | 14 | 18.1 |
| 160 | 150 | 90 | 17 | 22.2 |
| 225 | 200 | 90 | 17 | 22.2 |
| 280 | 250 | 125 | 22 | 28.2 |
| 315 | 300 | 125 | 22 | 28.2 |



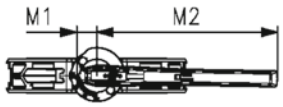
## Lug-style end installation butterfly valve type 565L PVDF/PA-GF
## With hand lever
## Flange standard ISO/Metric
## Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

**Model:**

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16
- For easy installation and removal
- Lockable ergonmic lever
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

**Option:**

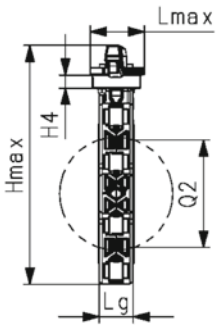
- Individual configuration of the valve possible
- Pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

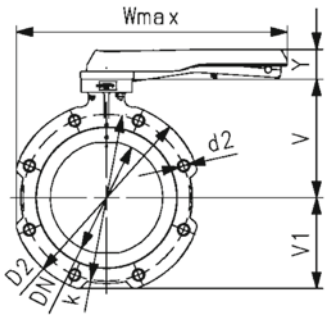



**Note:**

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 16 | 1445 | **199 575 000** | 1.308 | **199 575 020** | 1.377 |
| 75 | 65 | 2 ½ | 16 | 2530 | **199 575 001** | 1.542 | **199 575 021** | 1.644 |
| 90 | 80 | 3 | 16 | 4020 | **199 575 002** | 1.712 | **199 575 022** | 1.835 |
| 110 | 100 | 4 | 16 | 5850 | **199 575 003** | 4.102 | **199 575 023** | 2.693 |
| 140 | 125 | 5 | 16 | 11900 | **199 575 004** | 3.086 | **199 575 024** | 3.346 |
| 160 | 150 | 6 | 16 | 18050 | **199 575 005** | 4.029 | **199 575 025** | 4.347 |
| 225 | 200 | 8 | 10 | 43667 | **199 575 006** | 5.276 | **199 575 026** | 5.732 |




| d (mm) | DN (mm) | Hmax (mm) | Lmax (mm) | Wmax (mm) | V (mm) | V1 (mm) | Y (mm) | Lg (mm) | Q2 (mm) | k (mm) | d2 | D2 (mm) | H4 (mm) | M1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 256.4 | 96 | 274.5 | 133.3 | 70.1 | 53 | 43 | 28.3 | 125 | M16 | 155 | 23 | 35.5 |
| 75 | 65 | 273.7 | 96 | 285.0 | 139.9 | 80.8 | 53 | 46 | 43.8 | 145 | M16 | 175 | 23 | 35.5 |
| 90 | 80 | 289.9 | 96 | 294.5 | 145.6 | 91.3 | 53 | 46 | 63.5 | 160 | M16 | 190 | 23 | 35.5 |
| 110 | 100 | 325.6 | 96 | 360.0 | 166.4 | 106.2 | 53 | 52 | 83.7 | 180 | M16 | 221 | 23 | 35.5 |
| 140 | 125 | 353.3 | 96 | 374.0 | 180.0 | 120.3 | 53 | 56 | 110.4 | 210 | M16 | 250 | 23 | 35.5 |
| 160 | 150 | 374.4 | 96 | 454.5 | 189.0 | 132.4 | 53 | 56 | 137.3 | 240 | M20 | 277 | 23 | 35.5 |
| 225 | 200 | 422.8 | 96 | 482.5 | 209.5 | 160.3 | 53 | 60 | 191.1 | 295 | M20 | 337 | 23 | 35.5 |

| d (mm) | DN (mm) | M2 (mm) |
|---|---|---|
| 63 | 50 | 204.5 |
| 75 | 65 | 204.5 |
| 90 | 80 | 204.5 |
| 110 | 100 | 254.5 |
| 140 | 125 | 254.5 |
| 160 | 150 | 319.5 |
| 225 | 200 | 319.5 |



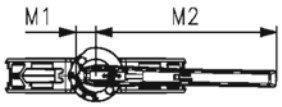
## Lug-style end installation butterfly valve type 565L PVDF/PA-GF
## With hand lever
## Flange standard ANSI / ASTM / ASME
## Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

**Model:**

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

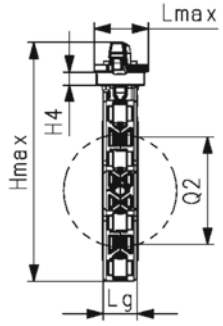
**Option:**

- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

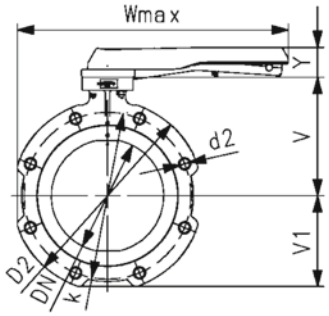



**Note:**

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com




| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 16 | 1445 | **199 576 000** | 1.308 | **199 576 020** | 1.377 |
| 75 | 65 | 2 ½ | 16 | 2530 | **199 576 001** | 1.542 | **199 576 021** | 1.644 |
| 90 | 80 | 3 | 16 | 4020 | **199 576 002** | 1.712 | **199 576 022** | 1.835 |
| 110 | 100 | 4 | 16 | 5850 | **199 576 003** | 2.517 | **199 576 023** | 2.693 |
| 140 | 125 | 5 | 16 | 11900 | **199 576 004** | 3.086 | **199 576 024** | 3.346 |
| 160 | 150 | 6 | 16 | 18050 | **199 576 005** | 4.029 | **199 576 025** | 4.347 |
| 225 | 200 | 8 | 10 | 43667 | **199 576 006** | 5.276 | **199 576 026** | 5.732 |




| d (mm) | DN (mm) | Hmax (mm) | Lmax (mm) | Wmax (mm) | V (mm) | V1 (mm) | Y (mm) | Lg (mm) | Q2 (mm) | k (mm) | d2 | D2 (mm) | H4 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 256.4 | 96 | 274.5 | 133.3 | 70.1 | 53 | 43 | 28.3 | 120.7 | UNC 5/8 | 155 | 23 |
| 75 | 65 | 273.7 | 96 | 285.0 | 139.9 | 80.8 | 53 | 46 | 43.8 | 139.7 | UNC 5/8 | 175 | 23 |
| 90 | 80 | 289.9 | 96 | 294.5 | 145.6 | 91.3 | 53 | 46 | 63.5 | 152.4 | UNC 5/8 | 190 | 23 |
| 110 | 100 | 325.6 | 96 | 360.0 | 166.4 | 106.2 | 53 | 52 | 83.7 | 190.5 | UNC 5/8 | 221 | 23 |
| 140 | 125 | 353.3 | 96 | 374.0 | 180.0 | 120.3 | 53 | 56 | 110.4 | 215.9 | UNC 3/4 | 250 | 23 |
| 160 | 150 | 374.4 | 96 | 454.5 | 189.0 | 132.4 | 53 | 56 | 137.3 | 241.3 | UNC 3/4 | 277 | 23 |
| 225 | 200 | 422.8 | 96 | 482.5 | 209.5 | 160.3 | 53 | 60 | 191.1 | 298.5 | UNC 3/4 | 337 | 23 |

| d (mm) | DN (mm) | M1 (mm) | M2 (mm) |
|---|---|---|---|
| 63 | 50 | 35.5 | 204.5 |
| 75 | 65 | 35.5 | 204.5 |
| 90 | 80 | 35.5 | 204.5 |
| 110 | 100 | 35.5 | 204.5 |
| 140 | 125 | 35.5 | 204.5 |
| 160 | 150 | 35.5 | 319.5 |
| 225 | 200 | 35.5 | 319.5 |



## Lug-style end installation butterfly valve type 565L PVDF/PA-GF
## Reduction gear with hand wheel
## Flange standard ANSI / ASTM / ASME
## Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

**Model:**

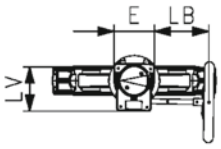
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

**Option:**

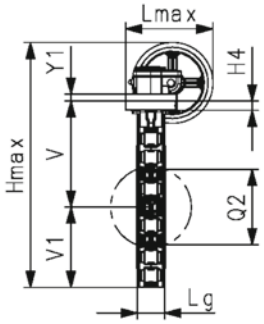
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

**Note:**

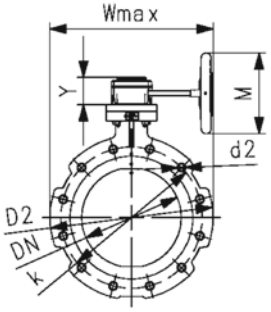
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com




| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 16 | 1445 | **199 576 200** | 3.009 | **199 576 220** | 3.078 |
| 75 | 65 | 2 ½ | 16 | 2530 | **199 576 201** | 3.243 | **199 576 221** | 3.345 |
| 90 | 80 | 3 | 16 | 4020 | **199 576 202** | 3.413 | **199 576 222** | 3.536 |
| 110 | 100 | 4 | 16 | 5850 | **199 576 203** | 4.152 | **199 576 223** | 4.328 |
| 140 | 125 | 5 | 16 | 11900 | **199 576 204** | 4.721 | **199 576 224** | 4.981 |
| 160 | 150 | 6 | 16 | 18050 | **199 576 205** | 5.493 | **199 576 225** | 5.811 |
| 225 | 200 | 8 | 10 | 43667 | **199 576 206** | 6.740 | **199 576 226** | 7.196 |
| 280 | 250 | 10 | 10 | 62333 | **199 576 207** | 12.739 | **199 576 227** | 13.419 |
| 315 | 300 | 12 | 6 | 94500 | **199 576 208** | 16.516 | **199 576 228** | 17.646 |




| d (mm) | DN (mm) | Hmax (mm) | Lmax (mm) | Wmax (mm) | V (mm) | V1 (mm) | Y (mm) | Lg (mm) | Q2 (mm) | k (mm) | d2 | D2 (mm) | H4 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 344.6 | 190.75 | 251.0 | 133.3 | 70.1 | 61.2 | 43 | 28.3 | 120.7 | UNC 5/8 | 155 | 23 |
| 75 | 65 | 361.9 | 190.75 | 261.5 | 139.9 | 80.8 | 61.2 | 46 | 43.8 | 139.7 | UNC 5/8 | 175 | 23 |
| 90 | 80 | 378.1 | 190.75 | 271.0 | 145.6 | 91.3 | 61.2 | 46 | 63.5 | 152.4 | UNC 5/8 | 190 | 23 |
| 110 | 100 | 413.8 | 190.75 | 286.5 | 166.4 | 106.2 | 61.2 | 52 | 83.7 | 190.5 | UNC 5/8 | 221 | 23 |
| 140 | 125 | 441.5 | 190.75 | 300.5 | 180.0 | 120.3 | 61.2 | 56 | 110.4 | 215.9 | UNC 3/4 | 250 | 23 |
| 160 | 150 | 462.6 | 190.75 | 312.5 | 189.0 | 132.4 | 61.2 | 56 | 137.3 | 241.3 | UNC 3/4 | 277 | 23 |
| 225 | 200 | 511.0 | 190.75 | 319.0 | 209.5 | 160.3 | 61.2 | 60 | 191.1 | 298.5 | UNC 3/4 | 337 | 23 |
| 280 | 250 | 647.0 | 207.40 | 403.0 | 262.5 | 199.1 | 68.4 | 68 | 238.9 | 362.0 | UNC 7/8 | 403 | 23 |
| 315 | 300 | 705.2 | 207.40 | 482.0 | 284.3 | 235.5 | 68.4 | 78 | 285.5 | 431.8 | UNC 7/8 | 479 | 23 |




| d (mm) | DN (mm) | E (mm) | Y1 (mm) | M (mm) | LV (mm) | LB (mm) |
|---|---|---|---|---|---|---|
| 63 | 50 | 80 | | 160 | 112.3 | 129.5 |
| 75 | 65 | 80 | | 160 | 112.3 | 129.5 |
| 90 | 80 | 80 | | 160 | 112.3 | 129.5 |
| 110 | 100 | 80 | | 160 | 112.3 | 129.5 |
| 140 | 125 | 80 | | 160 | 112.3 | 129.5 |
| 160 | 150 | 80 | | 160 | 112.3 | 129.5 |
| 225 | 200 | 80 | | 160 | 112.3 | 129.5 |
| 280 | 250 | 100 | 17 | 200 | 130.0 | 134.0 |
| 315 | 300 | 100 | 17 | 200 | 130.0 | 134.0 |

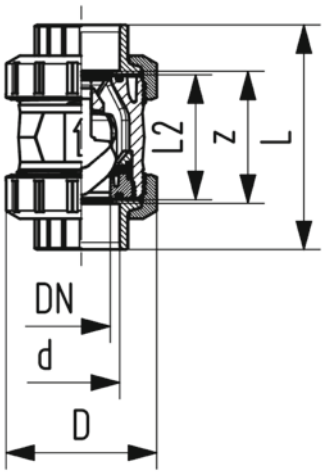
# Cone check valves



**PROGEF Standard Check valve type 561**
**Without spring**
**With fusion sockets metric**

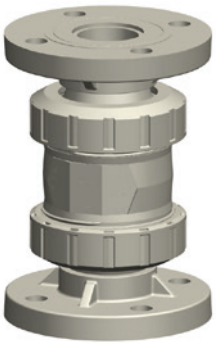
**Model:**

- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100




| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | ⅜ | 10 | 190 | **167 561 001** | 0.080 | **167 561 011** | 0.080 |
| 20 | 15 | ½ | 10 | 180 | **167 561 002** | 0.083 | **167 561 012** | 0.080 |
| 25 | 20 | ¾ | 10 | 380 | **167 561 003** | 0.128 | **167 561 013** | 0.180 |
| 32 | 25 | 1 | 10 | 460 | **167 561 004** | 0.200 | **167 561 014** | 0.190 |
| 40 | 32 | 1 ¼ | 10 | 850 | **167 561 005** | 0.332 | **167 561 015** | 0.340 |
| 50 | 40 | 1 ½ | 10 | 1080 | **167 561 006** | 0.498 | **167 561 016** | 0.480 |
| 63 | 50 | 2 | 10 | 1670 | **167 561 007** | 0.941 | **167 561 017** | 0.974 |
| 75 | 65 | 2 ½ | 10 | 2950 | **167 561 008** | 2.300 | **167 561 018** | 2.310 |
| 90 | 80 | 3 | 10 | 3600 | **167 561 009** | 3.560 | **167 561 019** | 3.580 |
| 110 | 100 | 4 | 10 | 4150 | **167 561 010** | 5.900 | **167 561 020** | 5.930 |

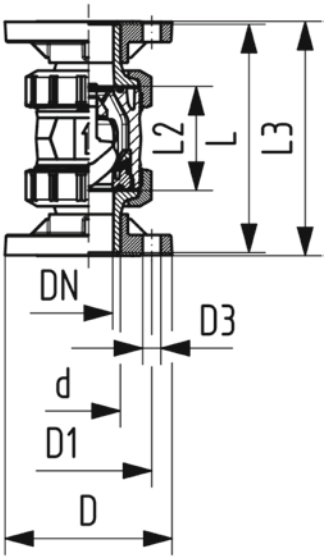
| d (mm) | D (mm) | L (mm) | L2 (mm) | z (mm) | closest inch (inch) |
|---|---|---|---|---|---|
| 16 | 50 | 93 | 56 | 67 | ⅜ |
| 20 | 50 | 95 | 56 | 66 | ½ |
| 25 | 58 | 109 | 65 | 77 | ¾ |
| 32 | 68 | 119 | 71 | 83 | 1 |
| 40 | 84 | 135 | 85 | 99 | 1 ¼ |
| 50 | 97 | 147 | 89 | 105 | 1 ½ |
| 63 | 124 | 168 | 101 | 117 | 2 |
| 75 | 166 | 233 | 136 | 167 | 2 ½ |
| 90 | 200 | 254 | 141 | 180 | 3 |
| 110 | 238 | 301 | 164 | 215 | 4 |



## PROGEF Standard Check valve type 561
## Without spring
## With fixed flanges metric

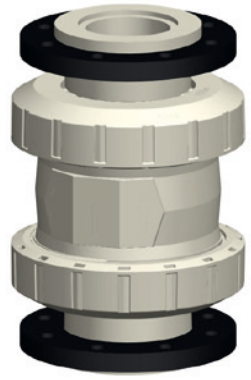
**Model:**

- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Installation length according to EN 558-1
- Z-length, end connectors and union nuts **not** compatible with type 360
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10




| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 180 | **167 561 182** | 0.220 | **167 561 192** | 0.220 |
| 25 | 20 | ¾ | 10 | 380 | **167 561 183** | 0.340 | **167 561 193** | 0.350 |
| 32 | 25 | 1 | 10 | 460 | **167 561 184** | 0.440 | **167 561 194** | 0.440 |
| 40 | 32 | 1 ¼ | 10 | 850 | **167 561 185** | 0.730 | **167 561 195** | 0.730 |
| 50 | 40 | 1 ½ | 10 | 1080 | **167 561 186** | 0.970 | **167 561 196** | 0.970 |
| 63 | 50 | 2 | 10 | 1670 | **167 561 187** | 1.600 | **167 561 197** | 1.600 |

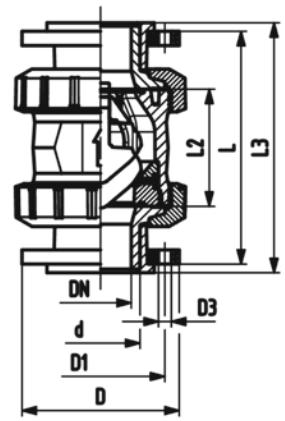
| d (mm) | D (mm) | D1 (mm) | D3 (mm) | L (mm) | L2 (mm) | L3 (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|
| 20 | 95 | 65 | 14 | 120 | 56 | 130 | ½ |
| 25 | 105 | 75 | 14 | 140 | 65 | 150 | ¾ |
| 32 | 115 | 85 | 14 | 150 | 71 | 160 | 1 |
| 40 | 140 | 100 | 18 | 170 | 85 | 180 | 1 ¼ |
| 50 | 150 | 110 | 18 | 190 | 89 | 200 | 1 ½ |
| 63 | 165 | 125 | 18 | 220 | 101 | 230 | 2 |



## PROGEF Standard Check valve type 561
## Without spring
## With backing flanges PP-st metric

**Model:**

- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501




| d (mm) | DN (mm) | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 2 ½ | 10 | 2950 | **167 561 428** | 4.710 | **167 561 438** | 4.720 |
| 90 | 80 | 3 | 10 | 3600 | **167 561 429** | 6.850 | **167 561 439** | 6.860 |
| 110 | 100 | 4 | 10 | 4150 | **167 561 430** | 9.280 | **167 561 440** | 9.300 |

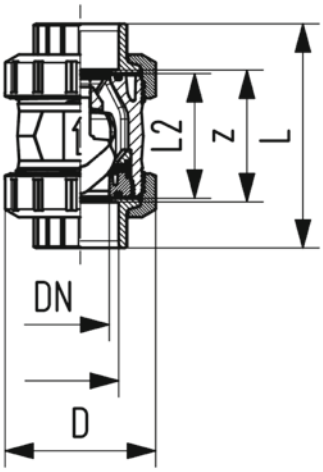
| d (mm) | D (mm) | D1 (mm) | D3 (mm) | H (mm) | H1 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | 166 | 145 | 18 | 149 | 85 | 280 | 270 | 136 | 290 | 70 | 64 | 206 | M8 | 1 ¼ |
| 90 | 200 | 160 | 18 | 161 | 105 | 296 | 270 | 141 | 310 | 70 | 64 | 206 | M8 | 1 ½ |
| 110 | 238 | 180 | 18 | 178 | 123 | 336 | 320 | 164 | 350 | 120 | 64 | 256 | M12 | 2 |



## PROGEF Standard Check valve type 562
## With threaded sockets reinforced Rp

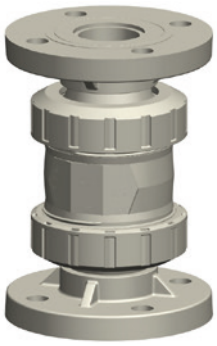
**Model:**

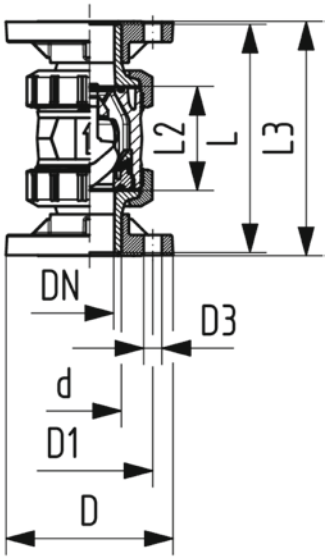
- Material: PP-H
- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360




| Rp (inch) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 190 | **167 562 021** | 0.080 | **167 562 031** | 0.080 |
| ½ | 15 | 10 | 180 | **167 562 022** | 0.090 | **167 562 032** | 0.090 |
| ¾ | 20 | 10 | 380 | **167 562 023** | 0.170 | **167 562 033** | 0.180 |
| 1 | 25 | 10 | 460 | **167 562 024** | 0.200 | **167 562 034** | 0.210 |
| 1 ¼ | 32 | 10 | 850 | **167 562 025** | 0.350 | **167 562 035** | 0.360 |
| 1 ½ | 40 | 10 | 1080 | **167 562 026** | 0.500 | **167 562 036** | 0.510 |
| 2 | 50 | 10 | 1670 | **167 562 027** | 0.920 | **167 562 037** | 0.920 |

| Rp (inch) | D (mm) | L (mm) | L2 (mm) | z (mm) |
|---|---|---|---|---|
| ⅜ | 50 | 96 | 56 | 69 |
| ½ | 50 | 99 | 56 | 67 |
| ¾ | 58 | 111 | 65 | 78 |
| 1 | 68 | 127 | 71 | 85 |
| 1 ¼ | 84 | 146 | 85 | 100 |
| 1 ½ | 97 | 157 | 89 | 106 |
| 2 | 124 | 183 | 101 | 121 |





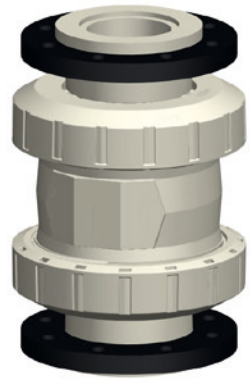

## PROGEF Standard Check valve type 562
## With fixed flanges metric

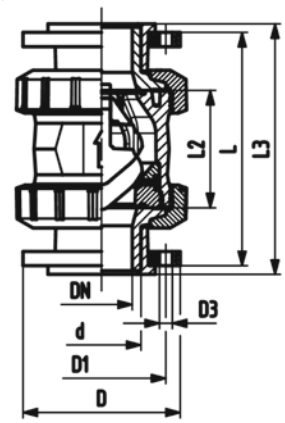
**Model:**

- Material: PP-H
- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Installation length according to EN 558-1
- Z-length, end connectors and union nuts **not** compatible with type 360
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

| d (mm) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 180 | **167 562 182** | 0.220 | **167 562 192** | 0.220 |
| 25 | 20 | 10 | 380 | **167 562 183** | 0.340 | **167 562 193** | 0.350 |
| 32 | 25 | 10 | 460 | **167 562 184** | 0.440 | **167 562 194** | 0.440 |
| 40 | 32 | 10 | 850 | **167 562 185** | 0.730 | **167 562 195** | 0.730 |
| 50 | 40 | 10 | 1080 | **167 562 186** | 0.970 | **167 562 196** | 0.970 |
| 63 | 50 | 10 | 1670 | **167 562 187** | 1.600 | **167 562 197** | 1.600 |

| d (mm) | D (mm) | D1 (mm) | D3 (mm) | L (mm) | L2 (mm) | L3 (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|
| 20 | 95 | 65 | 14 | 120 | 56 | 130 | ½ |
| 25 | 105 | 75 | 14 | 140 | 65 | 150 | ¾ |
| 32 | 115 | 85 | 14 | 150 | 71 | 160 | 1 |
| 40 | 140 | 100 | 18 | 170 | 85 | 180 | 1 ¼ |
| 50 | 150 | 110 | 18 | 190 | 89 | 200 | 1 ½ |
| 63 | 165 | 125 | 18 | 220 | 101 | 230 | 2 |





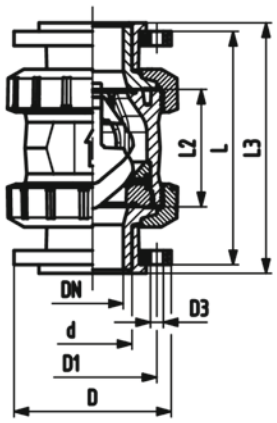

## PROGEF Standard Check valve type 562
## With backing flanges PP-st metric

**Model:**

- Material: PP-H
- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

| d (mm) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 75 | 65 | 10 | 2950 | **167 562 428** | 4.710 | **167 562 438** | 4.720 |
| 90 | 80 | 10 | 3600 | **167 562 429** | 6.850 | **167 562 439** | 6.860 |
| 110 | 100 | 10 | 4150 | **167 562 430** | 9.280 | **167 562 440** | 9.300 |

table continued on the next page



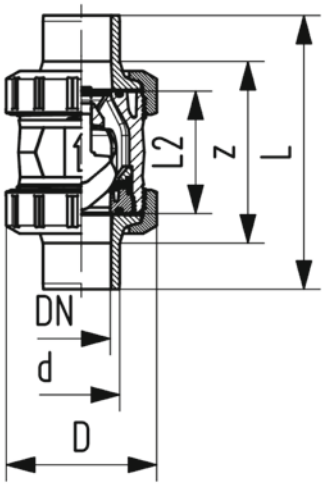

| d (mm) | D (mm) | D1 (mm) | D3 (mm) | H (mm) | H1 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | M | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | 166 | 145 | 18 | 149 | 85 | 280 | 270 | 136 | 290 | 70 | 64 | 206 | M8 | 1 ¼ |
| 90 | 200 | 160 | 18 | 161 | 105 | 296 | 270 | 141 | 310 | 70 | 64 | 206 | M8 | 1 ½ |
| 110 | 238 | 180 | 18 | 178 | 123 | 336 | 320 | 164 | 350 | 120 | 64 | 256 | M12 | 2 |



## PROGEF Standard Check valve type 562
## With butt fusion spigots
## SDR17,6 metric

**Model:**

- Material: PP-H
- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100




| d (mm) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 50 | 40 | 10 | 1080 | **167 562 066** | 0.510 | **167 562 076** | 0.510 |
| 63 | 50 | 10 | 1670 | **167 562 067** | 0.940 | **167 562 077** | 0.940 |
| 75 | 65 | 10 | 2950 | **167 562 068** | 2.340 | **167 562 078** | 2.360 |
| 90 | 80 | 10 | 3600 | **167 562 069** | 3.650 | **167 562 079** | 3.670 |
| 110 | 100 | 10 | 4150 | **167 562 070** | 5.790 | **167 562 080** | 5.820 |

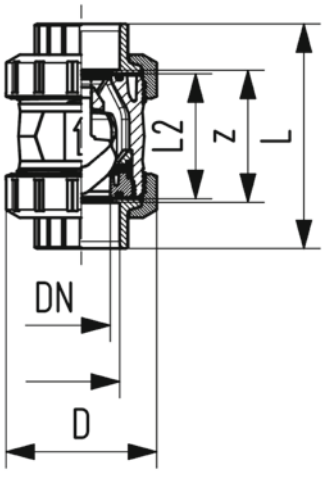
| d (mm) | D (mm) | L (mm) | L2 (mm) | e (mm) | closest inch (inch) |
|---|---|---|---|---|---|
| 50 | 97 | 191 | 89 | 2.9 | 1 ½ |
| 63 | 124 | 220 | 101 | 3.6 | 2 |
| 75 | 166 | 266 | 136 | 4.7 | 2 ½ |
| 90 | 200 | 264 | 141 | 5.5 | 3 |
| 110 | 238 | 301 | 164 | 6.8 | 4 |



## Check valve type 561 PVC-U
## Without spring
## With threaded sockets Rp

**Model:**

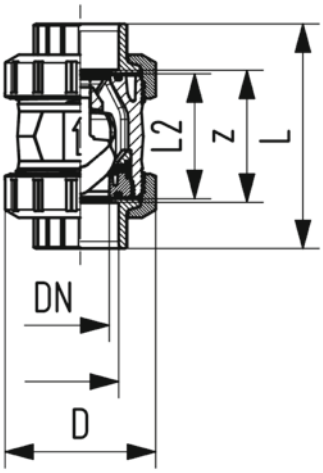
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360




| d (mm) | DN (mm) | Thread Type | Size (inch) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | Rp | ⅜ | 10 | 190 | **161 561 021** | 0.130 | **161 561 031** | 0.130 |
| 20 | 15 | Rp | ½ | 10 | 180 | **161 561 022** | 0.130 | **161 561 032** | 0.130 |
| 25 | 20 | Rp | ¾ | 10 | 380 | **161 561 023** | 0.260 | **161 561 033** | 0.280 |
| 32 | 25 | Rp | 1 | 10 | 460 | **161 561 024** | 0.300 | **161 561 034** | 0.300 |
| 40 | 32 | Rp | 1 ¼ | 10 | 850 | **161 561 025** | 0.510 | **161 561 035** | 0.520 |
| 50 | 40 | Rp | 1 ½ | 10 | 1080 | **161 561 026** | 0.780 | **161 561 036** | 0.790 |
| 63 | 50 | Rp | 2 | 10 | 1670 | **161 561 027** | 1.390 | **161 561 037** | 1.400 |
| 75 | 65 | Rp | 2 ½ | 10 | 2950 | **161 561 028** | 3.800 | **161 561 038** | 3.820 |
| 90 | 80 | Rp | 3 | 10 | 3600 | **161 561 029** | 5.160 | **161 561 039** | 5.180 |
| 110 | 100 | Rp | 4 | 10 | 4150 | **161 561 030** | 8.140 | **161 561 040** | 8.180 |

| D (mm) | L (mm) | L2 (mm) | z (mm) |
|---|---|---|---|
| 50 | 95 | 56 | 69 |
| 50 | 100 | 56 | 67 |
| 58 | 114 | 65 | 78 |

table continued on the next page



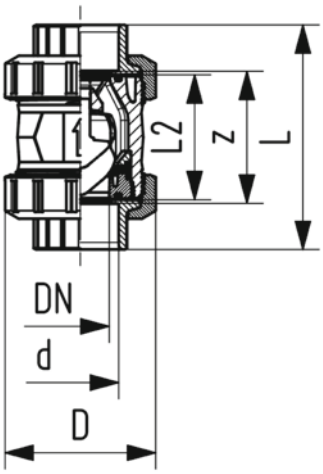

| D (mm) | L (mm) | L2 (mm) | z (mm) |
|---|---|---|---|
| 68 | 127 | 71 | 85 |
| 84 | 146 | 85 | 100 |
| 97 | 152 | 89 | 106 |
| 124 | 177 | 101 | 121 |
| 166 | 233 | 136 | 144 |
| 200 | 254 | 141 | 151 |
| 238 | 301 | 164 | 174 |



## Check valve type 562 PVC-U
## With solvent cement sockets metric

**Model:**

- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360




| d (mm) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 16 | 10 | 16 | 190 | **161 562 001** | 0.120 | **161 562 011** | 0.120 |
| 20 | 15 | 16 | 180 | **161 562 002** | 0.130 | **161 562 012** | 0.130 |
| 25 | 20 | 16 | 380 | **161 562 003** | 0.250 | **161 562 013** | 0.270 |
| 32 | 25 | 16 | 460 | **161 562 004** | 0.290 | **161 562 014** | 0.290 |
| 40 | 32 | 16 | 850 | **161 562 005** | 0.510 | **161 562 015** | 0.510 |
| 50 | 40 | 16 | 1080 | **161 562 006** | 0.750 | **161 562 016** | 0.750 |
| 63 | 50 | 16 | 1670 | **161 562 007** | 1.330 | **161 562 017** | 1.340 |
| 75 | 65 | 16 | 2950 | **161 562 008** | 3.160 | **161 562 018** | 3.170 |
| 90 | 80 | 16 | 3600 | **161 562 009** | 5.040 | **161 562 019** | 5.060 |
| 110 | 100 | 16 | 4150 | **161 562 010** | 8.130 | **161 562 020** | 8.170 |

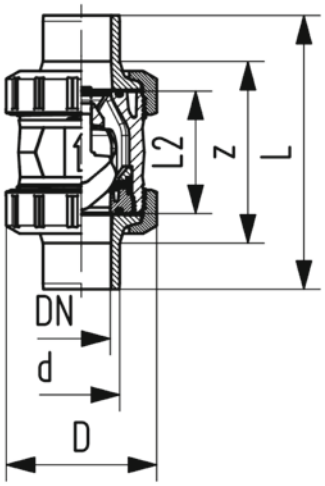
| d (mm) | D (mm) | L (mm) | L2 (mm) | z (mm) | closest inch (inch) |
|---|---|---|---|---|---|
| 16 | 50 | 92 | 56 | 64 | ⅜ |
| 20 | 50 | 95 | 56 | 64 | ½ |
| 25 | 58 | 110 | 65 | 72 | ¾ |
| 32 | 68 | 123 | 71 | 79 | 1 |
| 40 | 84 | 146 | 85 | 94 | 1 ¼ |
| 50 | 97 | 157 | 89 | 95 | 1 ½ |
| 63 | 124 | 183 | 101 | 107 | 2 |
| 75 | 166 | 233 | 136 | 144 | 2 ½ |
| 90 | 200 | 254 | 141 | 151 | 3 |
| 110 | 238 | 301 | 164 | 174 | 4 |



## Check valve type 562 PVC-U
## With solvent cement spigots metric

**Model:**

- For horizontal or vertical installation
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

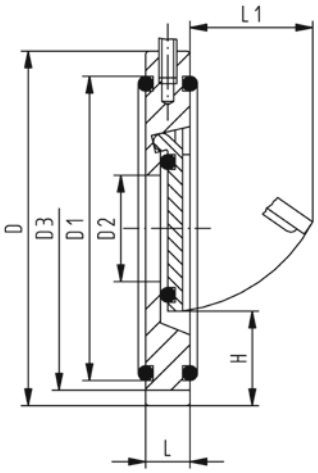



| d (mm) | DN (mm) | PN (bar) | kv-value (Δp=1 bar) (l/min) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 16 | 10 | 16 | 190 | **161 562 041** | 0.130 | **161 562 051** | 0.130 |
| 20 | 15 | 16 | 180 | **161 562 042** | 0.130 | **161 562 052** | 0.130 |
| 25 | 20 | 16 | 380 | **161 562 043** | 0.270 | **161 562 053** | 0.290 |
| 32 | 25 | 16 | 460 | **161 562 044** | 0.320 | **161 562 054** | 0.320 |
| 40 | 32 | 16 | 850 | **161 562 045** | 0.530 | **161 562 055** | 0.530 |
| 50 | 40 | 16 | 1080 | **161 562 046** | 0.810 | **161 562 056** | 0.810 |
| 63 | 50 | 16 | 1670 | **161 562 047** | 1.450 | **161 562 057** | 1.450 |
| 75 | 65 | 16 | 2950 | **161 562 048** | 3.370 | **161 562 058** | 3.380 |
| 90 | 80 | 16 | 3600 | **161 562 049** | 5.320 | **161 562 059** | 5.340 |
| 110 | 100 | 16 | 4150 | **161 562 050** | 8.500 | **161 562 060** | 8.540 |

| d (mm) | D (mm) | L (mm) | L2 (mm) | closest inch (inch) |
|---|---|---|---|---|
| 16 | 50 | 114 | 56 | ⅜ |
| 20 | 50 | 124 | 56 | ½ |
| 25 | 58 | 144 | 65 | ¾ |
| 32 | 68 | 154 | 71 | 1 |
| 40 | 84 | 174 | 85 | 1 ¼ |
| 50 | 97 | 194 | 89 | 1 ½ |
| 63 | 124 | 224 | 101 | 2 |
| 75 | 166 | 284 | 136 | 2 ½ |
| 90 | 200 | 300 | 141 | 3 |
| 110 | 238 | 340 | 164 | 4 |

# Wafer check valves






## PROGEF Standard Wafer check valve type 369
## With V4A spring (stainless steel 316)

**Model:**

- Material: PP-H
- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

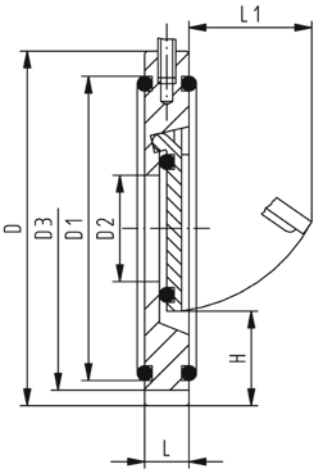
**Installation instruction:**

- Installation between ISO/DIN (all dimensions) and ANSI/BS flange adaptors (all except DN32 and DN125)
- Installation with ANSI/BS flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI/BS flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI/BS flange adaptor)
- Centering by body diameter (ISO/DIN by D3, ANSI/BS by D)
- It is necessary to use a special outlet flange adaptor PP or PE on the outgoing side of the wafer check valve
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- No direct installation on pump flange or following bend allowed

| d (mm) | DN (mm) | Size (inch) | PN (bar) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 40 | 32 | 1 ¼ | 10 | **167 369 042** | 0.090 | **167 369 062** | 0.071 |
| 50 | 40 | 1 ½ | 10 | **167 369 043** | 0.095 | **167 369 063** | 0.100 |
| 63 | 50 | 2 | 10 | **167 369 044** | 0.141 | **167 369 064** | 0.170 |
| 75 | 65 | 2 ½ | 10 | **167 369 045** | 0.218 | **167 369 065** | 0.245 |
| 90 | 80 | 3 | 10 | **167 369 046** | 0.260 | **167 369 066** | 0.260 |
| 110 | 100 | 4 | 10 | **167 369 047** | 0.375 | **167 369 067** | 0.370 |
| 140 | 125 | 5 | 10 | **167 369 049** | 0.535 | **167 369 069** | 0.500 |
| 160 | 150 | 6 | 6 | **167 369 050** | 0.740 | **167 369 070** | 0.740 |
| 225 | 200 | 8 | 6 | **167 369 051** | 1.376 | **167 369 071** | 1.400 |
| 280 | 250 | 10 | 6 | **167 369 052** | 2.345 | **167 369 072** | 2.400 |
| 315 | 300 | 12 | 6 | **167 369 053** | 3.520 | **167 369 073** | 3.520 |

| d (mm) | closest inch (inch) | D (mm) | D1 (mm) | D2 (mm) | D3 (mm) | L (mm) | L1 (mm) | H (mm) | Opening pressure vertical (mbar) | Opening pressure horizontal (mbar) | Minimum water column for sealing (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | 1 ¼ | 85 | 59 | 18 | | 15 | 22 | 25 | 30 | 20 | 3 |
| 50 | 1 ½ | 105 | 77 | 22 | 95 | 16 | 27 | 27 | 30 | 20 | 3 |
| 63 | 2 | 124 | 92 | 32 | 109 | 18 | 40 | 29 | 30 | 20 | 3 |
| 75 | 2 ½ | 137 | 111 | 40 | 129 | 20 | 55 | 31 | 30 | 20 | 3 |
| 90 | 3 | 175 | 131 | 54 | 144 | 20 | 67 | 32 | 30 | 20 | 3 |
| 110 | 4 | 175 | 153 | 70 | 164 | 23 | 77 | 31 | 30 | 20 | 3 |
| 140 | 5 | 195 | 185 | 92 | | 23 | 94 | 35 | 30 | 20 | 3 |
| 160 | 6 | 222 | 198 | 105 | 220 | 26 | 100 | 41 | 30 | 20 | 3 |
| 225 | 8 | 279 | 259 | 154 | 275 | 34 | 152 | 38 | 38 | 20 | 3 |
| 280 | 10 | 340 | 311 | 192 | 330 | 40 | 180 | 41 | 38 | 20 | 3 |
| 315 | 12 | 410 | 347 | 227 | 380 | 45 | 215 | 41 | 38 | 20 | 3 |






## Wafer check valve type 369 PVC-U
## With V4A spring (stainless steel 316)

**Model:**

- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

**Installation instruction:**

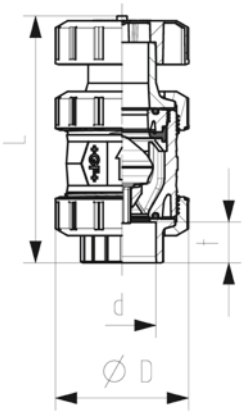
- Installation between ISO/DIN (all dimensions) and ANSI/BS flange adaptors (all except DN32 and DN125)
- Installation with ANSI/BS flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI/BS flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI/BS flange adaptor)
- Centering by body diameter (ISO/DIN by D3, ANSI/BS by D)
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- No direct installation on pump flange or following bend allowed
- The using of PVC-U pipe PN16 is only possible up to d63

| d (mm) | DN (mm) | Size (inch) | PN (bar) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 40 | 32 | 1 ¼ | 10 | **161 369 042** | 0.130 | **161 369 062** | 0.107 |
| 50 | 40 | 1 ½ | 10 | **161 369 043** | 0.160 | **161 369 063** | 0.206 |
| 63 | 50 | 2 | 10 | **161 369 044** | 0.273 | **161 369 064** | 0.250 |
| 75 | 65 | 2 ½ | 10 | **161 369 045** | 0.357 | **161 369 065** | 0.320 |
| 90 | 80 | 3 | 10 | **161 369 046** | 0.561 | **161 369 066** | 0.390 |
| 110 | 100 | 4 | 10 | **161 369 047** | 0.651 | **161 369 067** | 0.684 |
| 140 | 125 | 5 | 10 | **161 369 049** | 0.791 | **161 369 069** | 0.750 |
| 160 | 150 | 6 | 6 | **161 369 050** | 1.171 | **161 369 070** | 1.100 |
| 225 | 200 | 8 | 6 | **161 369 051** | 2.252 | **161 369 071** | 2.100 |
| 280 | 250 | 10 | 6 | **161 369 052** | 3.790 | **161 369 072** | 3.500 |
| 315 | 300 | 12 | 6 | **161 369 053** | 6.274 | **161 369 073** | 5.300 |

| d (mm) | D (mm) | D1 (mm) | D2 (mm) | D3 (mm) | L (mm) | L1 (mm) | H (mm) | Opening pressure vertical (mbar) | Opening pressure horizontal (mbar) | Minimum water column for sealing (m) |
|---|---|---|---|---|---|---|---|---|---|---|
| 40 | 85 | 59 | 18 | | 15 | 22 | 25 | 30 | 20 | 2 |
| 50 | 105 | 77 | 22 | 95 | 16 | 27 | 27 | 30 | 20 | 2 |
| 63 | 124 | 92 | 32 | 109 | 18 | 40 | 29 | 30 | 20 | 2 |
| 75 | 137 | 111 | 40 | 129 | 20 | 55 | 31 | 30 | 20 | 2 |
| 90 | 175 | 131 | 54 | 144 | 20 | 67 | 32 | 30 | 20 | 2 |
| 110 | 175 | 153 | 70 | 164 | 23 | 77 | 31 | 30 | 20 | 2 |
| 140 | 195 | 185 | 92 | | 23 | 94 | 35 | 30 | 20 | 2 |
| 160 | 222 | 198 | 105 | 220 | 26 | 100 | 41 | 30 | 20 | 2 |
| 225 | 279 | 259 | 154 | 275 | 34 | 152 | 38 | 38 | 20 | 2 |
| 280 | 340 | 311 | 192 | 330 | 40 | 180 | 41 | 38 | 20 | 2 |
| 315 | 410 | 347 | 227 | 380 | 45 | 215 | 41 | 38 | 20 | 2 |

# Process control valves





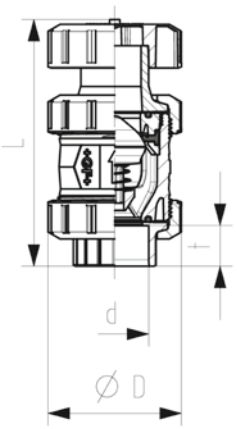

## Ventilating and bleed valve Type 591 PVC-C
## With solvent cement sockets metric

**Model:**

- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length

| d (mm) | DN (mm) | PN (bar) | EPDM Code | FKM Code | D (mm) | L (mm) | t (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 16 | **163 591 001** | **163 591 011** | 50 | 118 | 14 | ⅜ |
| 20 | 15 | 16 | **163 591 002** | **163 591 012** | 50 | 124 | 16 | ½ |
| 25 | 20 | 16 | **163 591 003** | **163 591 013** | 58 | 142 | 19 | ¾ |
| 32 | 25 | 16 | **163 591 004** | **163 591 014** | 68 | 157 | 22 | 1 |
| 40 | 32 | 16 | **163 591 005** | **163 591 015** | 84 | 179 | 26 | 1 ¼ |
| 50 | 40 | 16 | **163 591 006** | **163 591 016** | 97 | 197 | 31 | 1 ½ |
| 63 | 50 | 16 | **163 591 007** | **163 591 017** | 124 | 229 | 38 | 2 |
| 75 | 65 | 16 | **163 591 008** | **163 591 018** | 166 | 258 | 45 | 2 ½ |
| 90 | 80 | 16 | **163 591 009** | **163 591 019** | 200 | 277 | 52 | 3 |
| 110 | 100 | 16 | **163 591 010** | **163 591 020** | 238 | 320 | 64 | 4 |





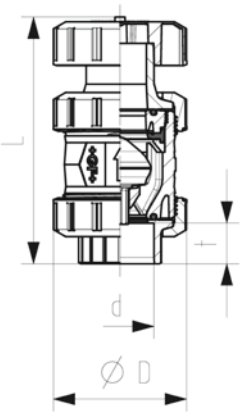

## Ventilating valve type 595 PVC-C
## With solvent cement sockets metric

**Model:**

- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Spring HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length

| d (mm) | DN (mm) | PN (bar) | EPDM Code | FKM Code | D (mm) | L (mm) | t (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 16 | **163 595 001** | **163 595 011** | 50 | 118 | 14 | ⅜ |
| 20 | 15 | 16 | **163 595 002** | **163 595 012** | 50 | 124 | 16 | ½ |
| 25 | 20 | 16 | **163 595 003** | **163 595 013** | 58 | 142 | 19 | ¾ |
| 32 | 25 | 16 | **163 595 004** | **163 595 014** | 68 | 157 | 22 | 1 |
| 40 | 32 | 16 | **163 595 005** | **163 595 015** | 84 | 179 | 26 | 1 ¼ |
| 50 | 40 | 16 | **163 595 006** | **163 595 016** | 97 | 197 | 31 | 1 ½ |
| 63 | 50 | 16 | **163 595 007** | **163 595 017** | 124 | 229 | 38 | 2 |
| 75 | 65 | 16 | **163 595 008** | **163 595 018** | 166 | 258 | 45 | 2 ½ |
| 90 | 80 | 16 | **163 595 009** | **163 595 019** | 200 | 277 | 52 | 3 |
| 110 | 100 | 16 | **163 595 010** | **163 595 020** | 238 | 320 | 64 | 4 |





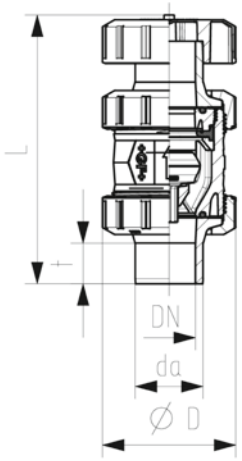

## Ventilating and bleed valve Type 591 PVC-U
## With solvent cement sockets metric

**Model:**

- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length

| d (mm) | DN (mm) | PN (bar) | EPDM Code | FKM Code | D (mm) | L (mm) | t (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 16 | **161 591 001** | **161 591 011** | 50 | 118 | 14 | ⅜ |
| 20 | 15 | 16 | **161 591 002** | **161 591 012** | 50 | 124 | 16 | ½ |
| 25 | 20 | 16 | **161 591 003** | **161 591 013** | 58 | 142 | 19 | ¾ |
| 32 | 25 | 16 | **161 591 004** | **161 591 014** | 68 | 157 | 22 | 1 |
| 40 | 32 | 16 | **161 591 005** | **161 591 015** | 84 | 179 | 26 | 1 ¼ |
| 50 | 40 | 16 | **161 591 006** | **161 591 016** | 97 | 197 | 31 | 1 ½ |
| 63 | 50 | 16 | **161 591 007** | **161 591 017** | 124 | 229 | 38 | 2 |
| 75 | 65 | 16 | **161 591 008** | **161 591 018** | 166 | 258 | 45 | 2 ½ |
| 90 | 80 | 16 | **161 591 009** | **161 591 019** | 200 | 277 | 52 | 3 |
| 110 | 100 | 16 | **161 591 010** | **161 591 020** | 238 | 320 | 64 | 4 |





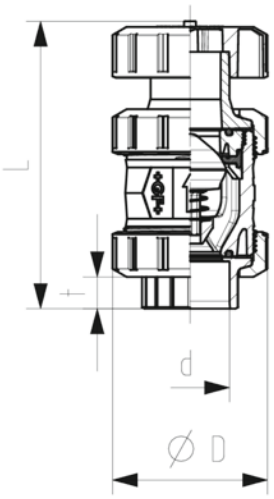

## Ventilating and bleed valve Type 591 PVC-U
## With solvent cement spigots metric

**Model:**

- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length

| d (mm) | DN (mm) | PN (bar) | EPDM Code | FKM Code | D (mm) | L (mm) | t (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 16 | **161 591 041** | **161 591 051** | 50 | 129 | 14 | ⅜ |
| 20 | 15 | 16 | **161 591 042** | **161 591 052** | 50 | 139 | 16 | ½ |
| 25 | 20 | 16 | **161 591 043** | **161 591 053** | 58 | 160 | 19 | ¾ |
| 32 | 25 | 16 | **161 591 044** | **161 591 054** | 68 | 172 | 22 | 1 |
| 40 | 32 | 16 | **161 591 045** | **161 591 055** | 84 | 193 | 26 | 1 ¼ |
| 50 | 40 | 16 | **161 591 046** | **161 591 056** | 97 | 215 | 31 | 1 ½ |
| 63 | 50 | 16 | **161 591 047** | **161 591 057** | 124 | 249 | 38 | 2 |
| 75 | 65 | 16 | **161 591 048** | **161 591 058** | 166 | 284 | 44 | 2 ½ |
| 90 | 80 | 16 | **161 591 049** | **161 591 059** | 200 | 300 | 52 | 3 |
| 110 | 100 | 16 | **161 591 050** | **161 591 060** | 238 | 340 | 61 | 4 |





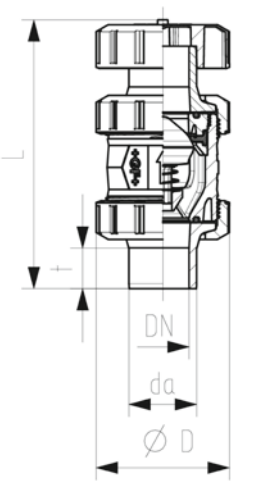

## Ventilating valve type 595 PVC-U
## With solvent cement sockets metric

**Model:**

- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Spring HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length

| d (mm) | DN (mm) | PN (bar) | EPDM Code | FKM Code | D (mm) | L (mm) | t (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 16 | **161 595 001** | **161 595 011** | 50 | 118 | 14 | ⅜ |
| 20 | 15 | 16 | **161 595 002** | **161 595 012** | 50 | 124 | 16 | ½ |
| 25 | 20 | 16 | **161 595 003** | **161 595 013** | 58 | 142 | 19 | ¾ |
| 32 | 25 | 16 | **161 595 004** | **161 595 014** | 68 | 157 | 22 | 1 |
| 40 | 32 | 16 | **161 595 005** | **161 595 015** | 84 | 179 | 26 | 1 ¼ |
| 50 | 40 | 16 | **161 595 006** | **161 595 016** | 97 | 197 | 31 | 1 ½ |
| 63 | 50 | 16 | **161 595 007** | **161 595 017** | 124 | 229 | 38 | 2 |
| 75 | 65 | 16 | **161 595 008** | **161 595 018** | 166 | 258 | 45 | 2 ½ |
| 90 | 80 | 16 | **161 595 009** | **161 595 019** | 200 | 277 | 52 | 3 |
| 110 | 100 | 16 | **161 595 010** | **161 595 020** | 238 | 320 | 64 | 4 |






## Ventilating valve type 595 PVC-U
## With solvent cement spigots metric

**Model:**

- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Spring HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length

| d (mm) | DN (mm) | PN (bar) | EPDM Code | FKM Code | D (mm) | L (mm) | t (mm) | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 16 | **161 595 041** | **161 595 051** | 50 | 129 | 14 | ⅜ |
| 20 | 15 | 16 | **161 595 042** | **161 595 052** | 50 | 139 | 16 | ½ |
| 25 | 20 | 16 | **161 595 043** | **161 595 053** | 58 | 160 | 19 | ¾ |
| 32 | 25 | 16 | **161 595 044** | **161 595 054** | 68 | 172 | 22 | 1 |
| 40 | 32 | 16 | **161 595 045** | **161 595 055** | 84 | 193 | 26 | 1 ¼ |
| 50 | 40 | 16 | **161 595 046** | **161 595 056** | 97 | 215 | 31 | 1 ½ |
| 63 | 50 | 16 | **161 595 047** | **161 595 057** | 124 | 249 | 38 | 2 |
| 75 | 65 | 16 | **161 595 048** | **161 595 058** | 166 | 284 | 44 | 2 ½ |
| 90 | 80 | 16 | **161 595 049** | **161 595 059** | 200 | 300 | 52 | 3 |
| 110 | 100 | 16 | **161 595 050** | **161 595 060** | 238 | 340 | 61 | 4 |

# Accessories





# Flange joints

## Creating flange joints

When making a flange connection, the following points have to be taken into consideration:

There is a general difference between the connection of plastic pipes and so-called adapter joints, which represent the transition from a plastic pipe to a metal pipe or a metal valve. Seals and flanges should be selected accordingly.

Flanges with sufficient thermal and mechanical stability should be used. GF flange types fulfil these requirements.

**Orientation of bolts outside main axis.**
Horizontal pipelines should have the shown orientation of the bolts in order to avoid in case of leakage medium drop on the bolts.



**Information**: Within the range of flexible sections and/or expansion loops no flange connections shall be used, because the bending load can lead to leakages.

Ensure centrically alignment of flange adaptor, flange and the seal with pipe axis.

When inserting a seal between the flange connections, the dimensions of the seal should be checked to make sure they correspond to the outer and inner diameter of the flange adapters. If the deviation between the inner diameter of the seal and the adapter is more than 10 mm, problems may arise with the flange connection.

Before pre-tightening the bolts, the jointing faces must be flush and must sit closely on the seal. Pulling the pipes together within the flange connection is to be strictly avoided because of the tensile stress which results thereof.

The length of the bolts should be selected so that the thread at the nut does not protrude more than 2 to 3 turns. A washer should be placed under the bolt head and also under the nut.

To make sure that the connecting bolts can be easily removed after a lengthy period of use, the thread should be coated with e. g. molybdenum sulphide.

Tighten the bolts diagonally and evenly first assemble the bolts and hand-tighten nut, so that the gasket is perfectly in place and the flange adapters have a minimum offset. Then tighten all the bolts diagonally up to 50 % of the recommended torque, and afterwards to 100 % of the torque.

We recommend checking at a later time and, if necessary, retightening 24 hours after assembling.

After the pressure test, check and cinch if necessary.

For more information on flange connections, see DVS 2210-1 Suppl. 3.

**Bolt tightening torque**
The torque of the bolts in flange connections is of particular importance. We observe several different methods in practice:

**As tight as possible:** In time this will definitely overstrain a flange connection in plastic piping systems.

**By feel:** This requires a good deal of experience and material know-how.

**Use of a torque wrench:** This is the best method. We have listed the recommended values below; however, deviations can occur in practice. These can be caused by the use of, for example, self-locking nuts or pipe axes which are not flush. The Shore hardness of the seal can also influence the necessary torque force (see also the following information concerning sealing materials).

**Bolt tightening torque guidelines for metric (ISO) flange connections with PP-V, PP- steel and PVC flanges.**

| Nominal diameter DN | Pipe diameter d | Bolt tightening torque [Nm] | | |
|---|---|---|---|---|
| | | Flat gasket up to max. pressure of 10 bar / 40 °C | Profile gasket up to max. pressure of 16 bar | O-ring up to max. pressure of 16 bar |
| 15 | 20 | 10 | 10 | 10 |
| 20 | 25 | 10 | 10 | 10 |
| 25 | 32 | 15 | 10 | 10 |
| 32 | 40 | 20 | 15 | 15 |
| 40 | 50 | 25 | 15 | 15 |
| 50 | 63 | 35 | 20 | 20 |
| 65 | 75 | 50 | 25 | 25 |
| 80 | 90 | 30 | 15 | 15 |
| 100 | 110 | 35 | 20 | 20 |
| 125 | 125, 140 | 45 | 25 | 25 |
| 150 | 160, 180 | 60 | 35 | 30 |
| 200 | 200, 225 | 70 [1)] | 45 | 35 |
| 250 | 250, 280 | 65 [1)] | 35 | 30 |
| 300 | 315 | 90 [1)] | 50 | 40 |
| 350 | 355 | 90 [1)] | 50 | - |
| 400 | 400 | 100 [1)] | 60 | - |
| 500 | 450, 500 | 190 [1)] | 70 | - |
| 600 | 560, 630 | 220 [1)] | 90 | - |

1) Up to a maximum working pressure of 6 bar

**Information**: Please observe the special bolt tightening torques given for DN250 and DN300 recommended for butterfly valves, see clause "Fundamentals for butterfly valves, hand operated".

The indicated torques are recommended by GF; with these torques a sufficient tightness of the flange connection is ensured. They deviate from the data in the DVS 2210-1 Supplement 3, which are to be understood

as upper limit values. Of course our components of the flange connection (adapters, flanges) are designed to withstand these upper limit values.

**Dimensions of metric (ISO) flange connections.**

| Nominal diameter DN | Pipe diameter d | Min. bolt length (calculated) | Max. bolt length (calculated) | Number of screws x thread diameter |
|---|---|---|---|---|
| 15 | 20 | 52 | 69 | 4 x M12 |
| 20 | 25 | 56 | 73 | 4 x M12 |
| 25 | 32 | 60 | 75 | 4 x M12 |
| 32 | 40 | 70 | 91 | 4 x M16 |
| 40 | 50 | 72 | 95 | 4 x M16 |
| 50 | 63 | 78 | 102 | 4 x M16 |
| 65 | 75 | 82 | 110 | 4 x M16 |
| 80 | 90 | 86 | 114 | 8 x M16 |
| 100 | 110 | 89 | 119 | 8 x M16 |
| 125 | 125, 140 | 101 | 137 | 8 x M16 |
| 150 | 160, 180 | 108 | 145 | 8 x M20 |
| 200 | 200, 225 | 130 | 167 | 8 x M20 |
| 250 | 250, 280 | 134 | 177 | 12 x M20 |
| 300 | 315 | 150 | 185 | 12 x M20 |
| 350 | 355 | 168 | 192 | 16 x M20 |
| 400 | 400 | 179 | 207 | 16 x M24 |
| 500 | 450, 500 | 249 | 253 | 20 x M24 |
| 600 | 560, 630 | 291 | 295 | 20 x M27 |

The minimum and maximum bolt lengths are given only for orientation. They are depending from the type of flanges and flange adaptors.
Exact values can be calculated from the information shown in the following clause "Length of bolts".

**Bolt tightening torque guidelines for ANSI flange connections with PP-V, PP- steel and PVC flanges.**

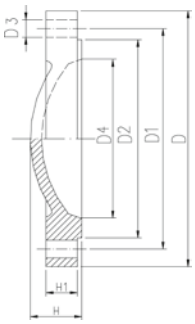
| Nominal diameter- Inch | Nominal diameter DN | Bolt tightening torque [lb-ft] | |
|---|---|---|---|
| | | Flat gasket up to max. pressure of 10 bar / 40 °C | Profile gasket up to max. pressure of 16 bar |
| ½ | 15 | 15 | 10 |
| ¾ | 20 | 15 | 10 |
| 1 | 25 | 15 | 10 |
| 1¼ | 32 | 15 | 10 |
| 1½ | 40 | 15 | 10 |
| 2 | 50 | 30 | 20 |
| 2½ | 65 | 30 | 20 |
| 3 | 80 | 40 | 30 |
| 4 | 100 | 30 | 20 |
| 6 | 150 | 50 | 33 |
| 8 | 200 | 50 | 33 |
| 10 | 250 | 60 [1)] | 40 |
| 12 | 300 | 75 [1)] | 53 |

1) Up to a maximum working pressure of 6 bar

| Table of contents | | Page |
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|  | Backing flanges PVC-U | 748 |
|  | Blanking flange PP-H | 751 |
|  | Blanking flanges PP-Steel | 752 |
|  | Backing flanges PP-V | 755 |
|  | Fixed flanges PVC-U JIS | 758 |
|  | Seals | 758 |
|  | Pipe clips metric | 762 |

# Backing flanges PVC-U






## Blanking flange PVC-U
## Jointing face serrated metric

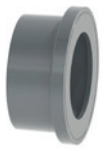
**Model:**

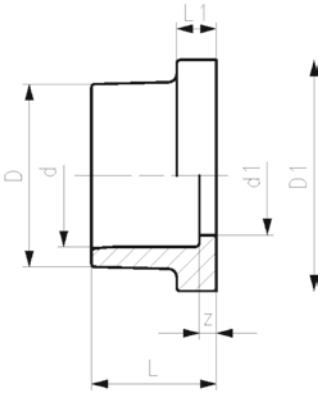
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- **d63 to d160: combined jointing face (serrated and flat)**
- d250: connecting dimension: ISO 2536
- **Bolt circle PN 10**

* Combined Flange, connecting dimensions EN1092 PN 10 and ANSI B 16.5 Class 150
d20 - d110: bolt hole as long hole version
AL: number of holes

| | d (mm) | DN (mm) | PN (bar) | Inch (inch) | Code | Weight (kg) |
|---|---|---|---|---|---|---|
| * | 20 | 15 | 10 | 1/2 | **721 700 506** | 0.075 |
| * | 25 | 20 | 10 | 3/4 | **721 700 507** | 0.097 |
| * | 32 | 25 | 10 | 1 | **721 700 508** | 0.145 |
| * | 40 | 32 | 10 | 1 1/4 | **721 700 509** | 0.214 |
| * | 50 | 40 | 10 | 11/2 | **721 700 510** | 0.298 |
| * | 63 | 50 | 10 | 2 | **721 700 511** | 0.352 |
| * | 75 | 65 | 10 | 2 1/2 | **721 700 512** | 0.538 |
| * | 90 | 80 | 10 | 3 | **721 700 513** | 0.679 |
| * | 110 | 100 | 10 | 4 | **721 700 514** | 0.870 |
| * | 140 | 125 | 10 | 5 | **721 700 516** | 1.286 |
| * | 160 | 150 | 10 | 6 | **721 700 517** | 1.761 |
| | 225 | 200 | 10 | 8 | **721 700 520** | 2.731 |
| | 250 | 250 | 10 | 10 | **721 700 521** | 3.329 |
| | 280 | 250 | 10 | 10 | **721 700 522** | 3.769 |
| | 315 | 300 | 6 | 12 | **721 700 523** | 4.856 |
| | 355 | 350 | 6 | 14 | **721 700 524** | 6.972 |
| | 400 | 400 | 6 | 16 | **721 700 525** | 9.125 |

| | d (mm) | D (mm) | D1 (mm) | D1 min. (mm) | D1 max. (mm) | D2 (mm) | D3 (mm) | D4 (mm) | H (mm) | H1 (mm) | AL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| * | 20 | 95 | | 61 | 63 | 34 | 16 | 15 | 15 | 12 | 4 |
| * | 25 | 105 | | 70 | 73 | 41 | 16 | 20 | 16 | 13 | 4 |
| * | 32 | 115 | | 79 | 83 | 50 | 16 | 25 | 19 | 15 | 4 |
| * | 40 | 140 | | 91 | 100 | 61 | 18 | 34 | 20 | 16 | 4 |
| * | 50 | 150 | | 101 | 110 | 74 | 18 | 44 | 22 | 17 | 4 |
| * | 63 | 165 | | 121 | 124 | 91 | 19 | 57 | 25 | 20 | 4 |
| * | 75 | 185 | | 140 | 145 | 106 | 22 | 69 | 29 | 21 | 4 |
| * | 90 | 200 | | 152 | 160 | 125 | 22 | 82 | 32 | 22 | 8 |
| * | 110 | 220 | | 180 | 191 | 150 | 24 | 102 | 36 | 24 | 8 |
| * | 140 | 250 | 215 | | | 184 | 23 | 120 | 41 | 28 | 8 |
| * | 160 | 285 | 240 | | | 212 | 23 | 152 | 45 | 30 | 8 |
| | 225 | 340 | 295 | | | 261 | 22 | 213 | 63 | 36 | 8 |
| | 250 | 370 | 325 | | | 292 | 22 | 238 | 63 | 36 | 8 |
| | 280 | 395 | 350 | | | 320 | 22 | 266 | 65 | 36 | 12 |
| | 315 | 445 | 400 | | | 371 | 22 | 299 | 65 | 36 | 12 |
| | 355 | 505 | 460 | | | 430 | 22 | 341 | 67 | 38 | 16 |
| | 400 | 565 | 515 | | | 482 | 26 | 384 | 71 | 42 | 16 |






## Flange adaptor PVC-U
## Combined jointing face flat and serrated metric

**Model:**

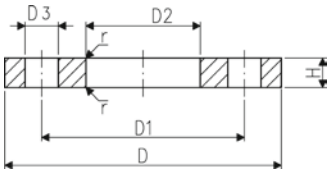
- Solvent cement socket metric
- d16 - d50: Sealing surface flat
- d63 - d400: combined jointing face flat and serrated
- Combination with gasket: profile flange gasket EPDM code no. 748 440 705-725, FKM code no. 749 440 705-725 or flat gasket EPDM code no. 748 440 705-725, only use O-ring EPDM code no. 748 410 000-174, FKM code no. 749 410 000-174 in combination with conterpart flange adaptor code no. 721 810 105-123
- Combination with flanges (metric & ANSI): PVC-U, PP-V, PP-Steel

**Note:**

* bevel on pipe may be needed if used with butterfly valve type 037/038/039
**The flat gasket affects the maximum allowable operating pressure!**

| | d (inch) | d (mm) | Size (inch) | DN (mm) | PN (bar) | Code | Weight (kg) | D (mm) | D1 (mm) | d1 (mm) | L (mm) | L1 (mm) | z (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 16 | | 10 | 16 | **721 800 105** | 0.006 | 22 | 29 | 13 | 17 | 6 | 3 |
| | | 20 | | 15 | 16 | **721 800 106** | 0.009 | 27 | 34 | 16 | 19 | 6 | 3 |
| | | 25 | | 20 | 16 | **721 800 107** | 0.015 | 33 | 41 | 21 | 22 | 7 | 3 |
| | | 32 | | 25 | 16 | **721 800 108** | 0.024 | 41 | 50 | 28 | 25 | 7 | 3 |
| | | 40 | | 32 | 16 | **721 800 109** | 0.039 | 50 | 61 | 36 | 29 | 8 | 3 |
| | | 50 | | 40 | 16 | **721 800 110** | 0.056 | 61 | 73 | 45 | 34 | 8 | 3 |
| | | 63 | | 50 | 16 | **721 790 111** | 0.103 | 77 | 90 | 57 | 41 | 9 | 3 |
| | 2 ½ | 75 | 2 ½ | 65 | 16 | **721 790 112** | 0.159 | 91 | 106 | 69 | 47 | 10 | 3 |
| | | 90 | | 80 | 16 | **721 790 113** | 0.253 | 108 | 125 | 82 | 56 | 11 | 5 |
| | | 110 | | 100 | 16 | **721 790 114** | 0.417 | 131 | 150 | 102 | 66 | 12 | 5 |
| | | 125 | | 125 | 16 | **721 790 115** | 0.533 | 148 | 170 | 117 | 74 | 13 | 5 |
| | 5 | 140 | 5 | 125 | 16 | **721 790 116** | 0.725 | 165 | 188 | 132 | 81 | 14 | 5 |
| | | 160 | 6 | 150 | 16 | **721 790 117** | 1.093 | 188 | 213 | 152 | 91 | 16 | 5 |
| * | | 200 | | 200 | 10 | **721 790 119** | 1.460 | 224 | 250 | 192 | 112 | 24 | 6 |
| | | 225 | | 200 | 10 | **721 790 120** | 1.743 | 248 | 274 | 217 | 125 | 25 | 6 |
| * | | 250 | | 250 | 10 | **721 790 121** | 2.203 | 274 | 303 | 240 | 140 | 23 | 9 |
| | | 280 | | 250 | 10 | **721 790 122** | 2.930 | 308 | 329 | 270 | 151 | 23 | 5 |
| * | | 315 | | 300 | 6 | **721 790 123** | 4.455 | 346 | 379 | 302 | 172 | 27 | 8 |
| | | 355 | | 350 | 6 | **721 790 124** | 5.963 | 384 | 430 | 341 | 194 | 32 | 10 |
| | | 400 | | 400 | 6 | **721 790 125** | 9.041 | 438 | 482 | 384 | 216 | 34 | 10 |






## Flanges PVC-U

**Model:**

- For socket systems metric and BS
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D2024, BS 1560, BS EN 1759
- Maximum medium- or ambient temperature 45 °C

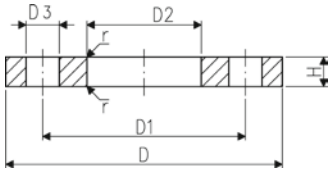
AL: number of holes

[1]) Not for BS

| | d (mm) | DN (mm) | Size (inch) | PN (bar) | Standard | Bolt / circle | Design | Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|
| | 16 | 10 | ⅜ | 10 | Metric | PN10 | Socket | **721 700 005** | 0.053 |
| | 20 | 15 | ½ | 10 | Metric | PN10 | Butt/Socket | **721 700 006** | 0.067 |
| | 25 | 20 | ¾ | 10 | Metric | PN10 | Butt/Socket | **721 700 007** | 0.092 |
| | 32 | 25 | 1 | 10 | Metric | PN10 | Butt/Socket | **721 700 008** | 0.133 |
| | 40 | 32 | 1 ¼ | 10 | Metric | PN10 | Butt/Socket | **721 700 009** | 0.198 |
| | 50 | 40 | 1 ½ | 10 | Metric | PN10 | Butt/Socket | **721 700 010** | 0.247 |
| | 63 | 50 | 2 | 10 | Metric | PN10 | Butt/Socket | **721 700 011** | 0.312 |
| | 75 | 65 | 2 ½ | 10 | Metric | PN10 | Butt/Socket | **721 700 012** | 0.376 |
| | 90 | 80 | 3 | 10 | Metric | PN10 | Socket | **721 700 013** | 0.464 |
| | 110 | 100 | 4 | 10 | ASME | class 150 | Socket | **161 483 180** | 0.538 |
| 1 | 110 | 100 | 4 | 10 | Metric | PN10 | Socket | **721 700 014** | 0.543 |
| | 125 | 125 | 4 ½ | 10 | Metric | PN10 | Socket | **721 700 015** | 0.904 |
| | 140 | 125 | 5 | 10 | Metric | PN10 | Socket | **721 700 016** | 0.758 |
| 1 | 160 | 150 | 6 | 10 | Metric | PN10 | Socket | **721 700 017** | 1.009 |
| | 200 | 200 | 7 | 10 | Metric | PN10 | Socket | **721 700 019** | 1.669 |
| | 225 | 200 | 8 | 10 | Metric | PN10 | Socket | **721 700 020** | 1.377 |
| | 250 | 250 | 9 | 6 | Metric | PN10 | Socket | **721 700 021** | 2.376 |
| | 250 | 225 | 9 | 6 | Metric | PN10 | Socket | **721 700 136** | 1.800 |
| | 280 | 250 | 10 | 6 | Metric | PN10 | Socket | **721 700 137** | 1.746 |
| | 315 | 300 | 12 | 6 | Metric | PN10 | Socket | **721 700 138** | 2.349 |
| | 355 | 350 | 14 | 6 | Metric | PN10 | Socket | **721 700 139** | 3.485 |
| | 400 | 400 | 16 | 6 | Metric | PN10 | Socket | **721 700 140** | 4.526 |
| | 20 | 15 | ½ | 10 | ASME | class 150 | Socket | **721 702 206** | 0.068 |
| | 25 | 20 | ¾ | 10 | ASME | class 150 | Socket | **721 702 207** | 0.090 |
| | 32 | 25 | 1 | 10 | ASME | class 150 | Socket | **721 702 208** | 0.128 |
| | 40 | 32 | 1 ¼ | 10 | ASME | class 150 | Socket | **721 702 209** | 0.203 |
| | 50 | 40 | 1 ½ | 10 | ASME | class 150 | Socket | **721 702 210** | 0.238 |
| | 63 | 50 | 2 | 10 | ASME | class 150 | Socket | **721 702 211** | 0.302 |
| | 75 | 65 | 2 ½ | 10 | ASME | class 150 | Socket | **721 702 212** | 0.369 |
| | 90 | 80 | 3 | 10 | ASME | class 150 | Socket | **721 702 213** | 0.509 |
| | 110 | 100 | 4 | 10 | ASME | class 150 | Socket | **721 702 214** | 0.516 |
| | 140 | 125 | 5 | 10 | ASME | class 150 | Socket | **721 702 216** | 0.737 |
| | 160 | 150 | 6 | 10 | ASME | class 150 | Socket | **721 702 217** | 1.910 |
| | 225 | 200 | 8 | 10 | ASME | class 150 | Socket | **721 702 220** | 1.360 |

| | D (mm) | D1 (mm) | D2 (mm) | D3 (mm) | H (mm) | r (mm) | AL | SC |
|---|---|---|---|---|---|---|---|---|
| | 90 | 60 | 23 | 14 | 10 | 1 | 4 | M12 |
| | 95 | 65 | 28 | 14 | 11 | 1 | 4 | M12 |
| | 105 | 75 | 34 | 14 | 12 | 2 | 4 | M12 |
| | 115 | 85 | 42 | 14 | 14 | 2 | 4 | M12 |
| | 140 | 100 | 51 | 18 | 15 | 2 | 4 | M16 |
| | 150 | 110 | 62 | 18 | 16 | 2 | 4 | M16 |
| | 165 | 125 | 78 | 18 | 18 | 3 | 4 | M16 |
| | 185 | 145 | 92 | 18 | 19 | 3 | 4 | M16 |
| | 200 | 160 | 110 | 18 | 20 | 3 | 8 | M16 |
| | 220 | 190 | 133 | 19 | 22 | 3 | 8 | |
| 1 | 220 | 180 | 133 | 18 | 22 | 3 | 8 | M16 |
| | 250 | 210 | 150 | 18 | 26 | 5 | 8 | M16 |
| | 250 | 210 | 167 | 18 | 26 | 4 | 8 | M16 |
| 1 | 285 | 240 | 190 | 22 | 28 | 4 | 8 | M20 |
| | 340 | 295 | 226 | 22 | 32 | 4 | 8 | M20 |
| | 340 | 295 | 250 | 22 | 32 | 4 | 8 | M20 |

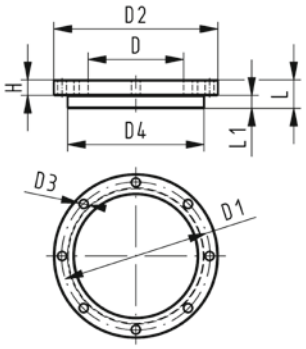
table continued on the next page




| D (mm) | D1 (mm) | D2 (mm) | D3 (mm) | H (mm) | r (mm) | AL | SC |
|---|---|---|---|---|---|---|---|
| 395 | 350 | 277 | 22 | 36 | 4 | 12 | M20 |
| 370 | 325 | 277 | 22 | 36 | 4 | 8 | M20 |
| 395 | 350 | 310 | 22 | 36 | 4 | 12 | M20 |
| 445 | 400 | 348 | 22 | 36 | 4 | 12 | M20 |
| 505 | 460 | 388 | 22 | 38 | 5 | 16 | M20 |
| 565 | 515 | 442 | 26 | 42 | 5 | 16 | M24 |
| 95 | 60 | 28 | 16 | 11 | 1 | 4 | |
| 105 | 70 | 34 | 16 | 12 | 2 | 4 | |
| 115 | 79 | 42 | 16 | 14 | 2 | 4 | |
| 140 | 89 | 51 | 16 | 15 | 2 | 4 | |
| 150 | 98 | 62 | 16 | 16 | 2 | 4 | |
| 165 | 121 | 78 | 19 | 18 | 3 | 4 | |
| 185 | 140 | 92 | 19 | 19 | 3 | 4 | |
| 200 | 152 | 110 | 19 | 20 | 3 | 4 | |
| 220 | 190 | 138 | 19 | 22 | 3 | 8 | |
| 250 | 216 | 167 | 22 | 26 | 4 | 8 | |
| 285 | 241 | 200 | 22 | 28 | 4 | 8 | |
| 340 | 298 | 250 | 22 | 32 | 4 | 8 | |

# Blanking flange PP-H






**Blanking flange set PP-H**
**Combined jointing face flat and serrated metric**

**Model:**

- d63 - d315: backing flange PP-V with end blank PP-H
- d355 - d630: backing flange PP/Steel with end blank PP-H
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- **Bolt circle PN 10**

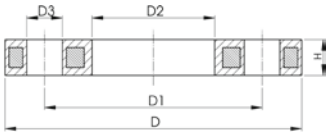
AL: number of holes
L: height backing ring + collar thickness end blank

| d (mm) | DN (mm) | PN (bar) | Code | Weight (kg) | D (mm) | D1 (mm) | D2 (mm) | D3 (mm) | D4 (mm) | L (mm) | L1 (mm) | H (mm) | AL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 10 | **727 700 611** | 0.531 | 75 | 125 | 165 | 18 | 102 | 38 | 14 | 24 | 4 |
| 75 | 65 | 10 | **727 700 612** | 0.901 | 89 | 145 | 185 | 18 | 122 | 42 | 16 | 26 | 4 |
| 90 | 80 | 10 | **727 700 613** | 1.054 | 105 | 160 | 200 | 18 | 138 | 44 | 17 | 27 | 8 |
| 110 | 100 | 10 | **727 700 614** | 1.199 | 125 | 180 | 220 | 18 | 158 | 46 | 18 | 28 | 8 |
| 125 | 100 | 10 | **727 700 615** | 1.201 | 132 | 180 | 220 | 18 | 158 | 53 | 25 | 28 | 8 |
| 140 | 125 | 10 | **727 700 616** | 1.748 | 155 | 210 | 250 | 18 | 188 | 55 | 25 | 30 | 8 |
| 160 | 150 | 10 | **727 700 617** | 2.312 | 175 | 240 | 285 | 22 | 212 | 57 | 25 | 32 | 8 |
| 180 | 150 | 10 | **727 700 618** | 2.443 | 180 | 240 | 285 | 22 | 212 | 62 | 30 | 32 | 8 |
| 200 | 200 | 10 | **727 700 619** | 3.961 | 232 | 295 | 340 | 22 | 268 | 66 | 32 | 34 | 8 |
| 225 | 200 | 10 | **727 700 620** | 3.956 | 235 | 295 | 340 | 22 | 268 | 66 | 32 | 34 | 8 |
| 250 | 250 | 10 | **727 700 621** | 5.425 | 285 | 350 | 395 | 22 | 320 | 73 | 35 | 38 | 12 |
| 280 | 250 | 10 | **727 700 622** | 19.781 | 291 | 350 | 395 | 22 | 320 | 73 | 35 | 38 | 12 |
| 315 | 300 | 10 | **727 700 623** | 8.602 | 335 | 400 | 445 | 22 | 370 | 77 | 35 | 42 | 12 |
| 355 | 350 | 10 | **727 700 624** | 23.184 | 373 | 460 | 515 | 22 | 430 | 80 | 40 | 40 | 16 |
| 400 | 400 | 10 | **727 700 625** | 30.304 | 427 | 515 | 574 | 26 | 482 | 86 | 46 | 40 | 16 |
| 450 | 500 | 10 | **727 700 626** | 43.485 | 510 | 620 | 684 | 26 | 585 | 109 | 60 | 49 | 20 |
| 500 | 500 | 10 | **727 700 627** | 46.203 | 530 | 620 | 684 | 26 | 585 | 109 | 60 | 49 | 20 |
| 560 | 600 | 10 | **727 700 628** | 65.823 | 615 | 725 | 796 | 30 | 685 | 118 | 60 | 58 | 20 |
| 630 | 600 | 10 | **727 700 629** | 67.056 | 642 | 725 | 796 | 30 | 685 | 128 | 60 | 68 | 20 |

# Blanking flanges PP-Steel








## Flanges PP-Steel

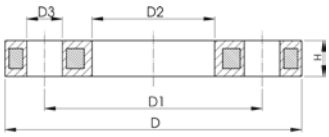
**Model:**

- Material: PP (30% glass-fibre reinforced) with steel ring
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D4024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes
* FM 1613 approved - 15 bar
** Profiled loose flange

| | d (mm) | DN (mm) | D (mm) | PN (bar) | Standard | Bolt / circle | Design | Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|
| | 20 | 15 | 95 | 16 | Metric | PN10 | Butt/Socket | **727 700 206** | 0.216 |
| | 20 | 15 | 95 | 16 | ASME | class 150 | Butt/Socket | **727 701 206** | 0.213 |
| | 25 | 20 | 105 | 16 | Metric | PN10 | Butt/Socket | **727 700 207** | 0.279 |
| | 25 | 20 | 105 | 16 | ASME | class 150 | Butt/Socket | **727 701 207** | 0.260 |
| | 32 | 25 | 115 | 16 | Metric | PN10 | Butt/Socket | **727 700 208** | 0.429 |
| | 32 | 25 | 115 | 16 | ASME | class 150 | Butt/Socket | **727 701 208** | 0.416 |
| | 40 | 32 | 140 | 16 | Metric | PN10 | Butt/Socket | **727 700 209** | 0.621 |
| | 40 | 32 | 140 | 16 | ASME | class 150 | Butt/Socket | **727 701 209** | 0.730 |
| | 50 | 40 | 150 | 16 | Metric | PN10 | Butt/Socket | **727 700 210** | 0.722 |
| | 50 | 40 | 150 | 16 | ASME | class 150 | Butt/Socket | **727 701 210** | 0.809 |
| | 63 | 50 | 165 | 16 | Metric | PN10 | Butt/Socket | **727 700 211** | 0.900 |
| | 63 | 50 | 165 | 16 | ASME | class 150 | Butt/Socket | **727 701 211** | 0.866 |
| | 75 | 65 | 185 | 16 | Metric | PN10 | Butt/Socket | **727 700 212** | 1.110 |
| | 75 | 65 | 185 | 16 | ASME | class 150 | Butt/Socket | **727 701 212** | 1.117 |
| * | 90 | 80 | 200 | 16 | Metric | PN10 | Butt | **724 700 313** | 1.390 |
| | 90 | 80 | 200 | 16 | Metric | PN10 | Socket | **727 700 213** | 1.369 |
| | 90 | 80 | 200 | 16 | Metric | PN10 | Butt | **727 700 313** | 1.390 |
| | 90 | 80 | 200 | 16 | ASME | class 150 | Socket | **727 701 213** | 1.492 |
| | 90 | 80 | 200 | 16 | ASME | class 150 | Butt | **727 701 313** | 1.499 |
| * | 110 | 100 | 223 | 16 | Metric | PN10 | Butt | **724 700 314** | 1.407 |
| | 110 | 100 | 220 | 16 | Metric | PN10 | Socket | **727 700 214** | 1.522 |
| | 110 | 100 | 220 | 16 | Metric | PN10 | Butt | **727 700 314** | 1.407 |
| | 110 | 100 | 229 | 16 | ASME | class 150 | Socket | **727 701 214** | 1.695 |
| | 110 | 100 | 229 | 16 | ASME | class 150 | Butt | **727 701 314** | 1.739 |
| * | 125 | 100 | 223 | 16 | Metric | PN10 | Butt | **724 700 315** | 1.408 |
| | 125 | 100 | 220 | 16 | Metric | PN10 | Butt | **727 700 315** | 1.408 |
| | 125 | 125 | 250 | 16 | Metric | PN10 | Socket | **727 700 815** | 2.475 |
| * | 140 | 125 | 250 | 16 | Metric | PN10 | Butt | **724 700 316** | 2.318 |
| | 140 | 125 | 250 | 16 | Metric | PN10 | Butt | **727 700 716** | 2.318 |
| | 140 | 125 | 250 | 16 | Metric | PN10 | Socket | **727 700 816** | 2.033 |
| * | 160 | 150 | 285 | 16 | Metric | PN10 | Butt | **724 700 317** | 3.491 |
| | 160 | 150 | 285 | 16 | Metric/ASME | PN10/ class 150 | Butt | **727 700 717** | 3.491 |
| | 160 | 150 | 285 | 16 | Metric/ASME | PN10/ class 150 | Socket | **727 700 817** | 3.167 |
| * | 180 | 150 | 285 | 16 | Metric | PN10 | Butt | **724 700 318** | 3.108 |
| | 180 | 150 | 285 | 16 | Metric/ASME | PN10/ Class 150 | Butt | **727 700 718** | 3.108 |
| *, ** | 200 | 200 | 344 | 16 | Metric | PN16 | Butt | **724 700 319** | 3.549 |
| | 200 | 200 | 340 | 16 | Metric/ASME | PN10/ class 150 | Butt | **727 700 719** | 5.600 |
| | 200 | 200 | 340 | 16 | Metric/ASME | PN10/ class 150 | Socket | **727 700 819** | 6.143 |
| *, ** | 225 | 200 | 344 | 16 | Metric | PN16 | Butt | **724 700 320** | 3.380 |
| | 225 | 200 | 340 | 16 | Metric/ASME | PN10/ class 150 | Butt | **727 700 720** | 5.533 |
| | 225 | 200 | 340 | 16 | Metric/ASME | PN10/ class 150 | Socket | **727 700 820** | 4.448 |
| *, ** | 250 | 250 | 410 | 16 | Metric | PN16 | Butt | **724 700 321** | 6.390 |
| | 250 | 225 | 395 | 16 | Metric | PN10 | Socket | **727 700 031** | 8.340 |
| | 250 | 250 | 406 | 10 | ASME | class 150 | Butt | **727 701 321** | 6.000 |
| | 250 | 250 | 395 | 16 | Metric | PN10 | Butt | **727 700 721** | 6.632 |

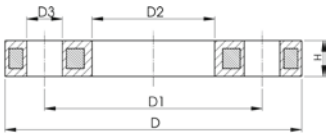
table continued on the next page




| | d (mm) | DN (mm) | D (mm) | PN (bar) | Standard | Bolt / circle | Design | Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|
| | 250 | 250 | 395 | 16 | Metric | PN10 | Socket | **727 700 821** | 7.179 |
| *, ** | 280 | 250 | 410 | 16 | Metric | PN16 | Butt | **724 700 322** | 6.310 |
| | 280 | 250 | 395 | 16 | Metric | PN10 | Butt | **727 700 722** | 6.573 |
| | 280 | 250 | 395 | 16 | Metric | PN10 | Socket | **727 700 822** | 5.547 |
| *, ** | 315 | 300 | 455 | 16 | Metric | PN16 | Butt | **724 700 323** | 9.740 |
| | 315 | 300 | 445 | 16 | Metric | PN10 | Butt | **727 700 723** | 7.903 |
| | 315 | 300 | 445 | 16 | Metric | PN10 | Socket | **727 700 823** | 6.980 |
| | 315 | 300 | 483 | 10 | ASME | class 150 | Butt | **727 701 322** | 11.800 |
| *, ** | 355 | 350 | 521 | 16 | Metric | PN16 | Butt | **724 700 324** | 15.203 |
| | 355 | 350 | 515 | 16 | Metric | PN10 | Butt | **727 700 724** | 14.587 |
| | 355 | 350 | 515 | 16 | Metric | PN10 | Socket | **727 700 824** | 12.465 |
| | 355 | 350 | 540 | 10 | ASME | class 150 | Butt | **727 701 323** | 17.900 |
| *, ** | 400 | 400 | 582 | 16 | Metric | PN16 | Butt | **724 700 325** | 20.600 |
| | 400 | 400 | 574 | 16 | Metric | PN10 | Butt | **727 700 725** | 20.034 |
| | 400 | 400 | 574 | 16 | Metric | PN10 | Socket | **727 700 825** | 17.607 |
| | 400 | 400 | 597 | 10 | ASME | class 150 | Butt | **727 701 324** | 24.500 |
| *, ** | 450 | 500 | 685 | 10 | Metric | PN10 | Butt | **724 700 426** | 25.600 |
| *, ** | 500 | 500 | 685 | 10 | Metric | PN10 | Butt | **724 700 427** | 21.061 |
| ** | 560 | 600 | 796 | 10 | Metric | PN10 | Butt | **724 700 428** | 35.000 |
| ** | 630 | 600 | 800 | 10 | Metric | PN10 | Butt | **724 700 429** | 28.500 |
| ** | 710 | 700 | 912 | 6 | Metric | PN10 | Butt | **724 700 430** | 25.500 |
| ** | 800 | 800 | 1026 | 6 | Metric | PN10 | Butt | **724 700 431** | 39.300 |
| ** | 900 | 900 | 1129 | 6 | Metric | PN10 | Butt | **724 700 432** | 48.500 |
| | 450 | 500 | 712 | 10 | ASME | class 150 | Butt | **727 701 325** | 33.600 |

| | d (mm) | D1 (mm) | D2 (mm) | D3 (mm) | H max. (mm) | AL | SC |
|---|---|---|---|---|---|---|---|
| | 20 | 65 | 28 | 14 | 12 | 4 | M12 |
| | 20 | 60 | 28 | 16 | 12 | 4 | M12 |
| | 25 | 75 | 34 | 14 | 12 | 4 | M12 |
| | 25 | 70 | 34 | 16 | 12 | 4 | M12 |
| | 32 | 85 | 42 | 14 | 16 | 4 | M12 |
| | 32 | 79 | 42 | 16 | 16 | 4 | M12 |
| | 40 | 100 | 51 | 18 | 16 | 4 | M16 |
| | 40 | 89 | 51 | 16 | 16 | 4 | M16 |
| | 50 | 110 | 62 | 18 | 20 | 4 | M16 |
| | 50 | 98 | 62 | 16 | 18 | 4 | M16 |
| | 63 | 125 | 78 | 18 | 20 | 4 | M16 |
| | 63 | 121 | 78 | 19 | 18 | 4 | M16 |
| | 75 | 145 | 92 | 18 | 20 | 4 | M16 |
| | 75 | 140 | 92 | 19 | 18 | 4 | M16 |
| * | 90 | 160 | 108 | 18 | 20 | 8 | M16 |
| | 90 | 160 | 110 | 18 | 20 | 8 | M16 |
| | 90 | 160 | 108 | 18 | 20 | 8 | M16 |
| | 90 | 152 | 110 | 19 | 20 | 4 | M16 |
| | 90 | 152 | 108 | 19 | 20 | 4 | M16 |
| * | 110 | 180 | 128 | 18 | 20 | 8 | M16 |
| | 110 | 180 | 133 | 18 | 20 | 8 | M16 |
| | 110 | 180 | 128 | 18 | 20 | 8 | M16 |
| | 110 | 190 | 133 | 19 | 20 | 8 | M16 |
| | 110 | 190 | 128 | 19 | 20 | 8 | M16 |
| * | 125 | 180 | 135 | 18 | 20 | 8 | M16 |
| | 125 | 180 | 135 | 18 | 20 | 8 | M16 |
| | 125 | 210 | 150 | 18 | 26 | 8 | M16 |
| * | 140 | 210 | 158 | 18 | 24 | 8 | M16 |
| | 140 | 210 | 158 | 18 | 24 | 8 | M16 |
| | 140 | 210 | 167 | 18 | 26 | 8 | M16 |
| * | 160 | 240 | 178 | 22 | 28 | 8 | M20 |
| | 160 | 240 | 178 | 22 | 24 | 8 | M20 |
| | 160 | 240 | 190 | 22 | 26 | 8 | M20 |
| * | 180 | 240 | 188 | 22 | 28 | 8 | M20 |
| | 180 | 240 | 188 | 22 | 24 | 8 | M20 |
| *, ** | 200 | 295 | 235 | 22 | 31 | 12 | M20 |

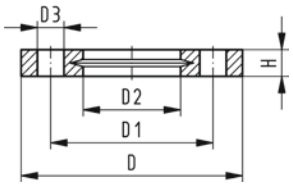
table continued on the next page




| | d (mm) | D1 (mm) | D2 (mm) | D3 (mm) | H max. (mm) | AL | SC |
|---|---|---|---|---|---|---|---|
| | 200 | 295 | 235 | 22 | 27 | 8 | M20 |
| | 200 | 295 | 226 | 22 | 29 | 8 | M20 |
| *, ** | 225 | 295 | 238 | 22 | 31 | 12 | M20 |
| | 225 | 297 | 238 | 22 | 27 | 8 | M20 |
| | 225 | 297 | 250 | 22 | 29 | 8 | M20 |
| *, ** | 250 | 355 | 288 | 26 | 35 | 12 | M24 |
| | 250 | 325 | 277 | 22 | 32 | 8 | M20 |
| | 250 | 362 | 293 | 25 | 30 | 12 | M24 |
| | 250 | 350 | 288 | 22 | 30 | 12 | M20 |
| | 250 | 350 | 277 | 22 | 32 | 12 | M20 |
| *, ** | 280 | 355 | 294 | 26 | 36 | 12 | M24 |
| | 280 | 350 | 294 | 22 | 30 | 12 | M20 |
| | 280 | 350 | 310 | 22 | 32 | 12 | M20 |
| *, ** | 315 | 410 | 338 | 26 | 43 | 12 | M24 |
| | 315 | 400 | 338 | 22 | 34 | 12 | M20 |
| | 315 | 400 | 348 | 22 | 36 | 12 | M20 |
| | 315 | 432 | 338 | 25 | 34 | 12 | M24 |
| *, ** | 355 | 470 | 376 | 26 | 55 | 16 | M24 |
| | 355 | 460 | 376 | 23 | 40 | 16 | M20 |
| | 355 | 460 | 388 | 23 | 42 | 16 | M20 |
| | 355 | 476 | 376 | 29 | 42 | 12 | M27 |
| *, ** | 400 | 525 | 430 | 30 | 56 | 16 | M27 |
| | 400 | 515 | 430 | 26 | 40 | 16 | M24 |
| | 400 | 515 | 442 | 26 | 42 | 16 | M24 |
| | 400 | 539 | 429 | 29 | 44 | 16 | M27 |
| *, ** | 450 | 620 | 517 | 26 | 56 | 20 | M24 |
| *, ** | 500 | 620 | 533 | 26 | 56 | 20 | M24 |
| ** | 560 | 725 | 618 | 30 | 68 | 20 | M27 |
| ** | 630 | 725 | 645 | 30 | 68 | 20 | M27 |
| ** | 710 | 840 | 740 | 30 | 49 | 24 | M27 |
| ** | 800 | 950 | 843 | 33 | 58 | 24 | M30 |
| ** | 900 | 1050 | 947 | 33 | 62 | 28 | M30 |
| | 450 | 635 | 540 | 32 | 53 | 20 | M30 |

# Backing flanges PP-V






## Flanges PP-V (full plastic)

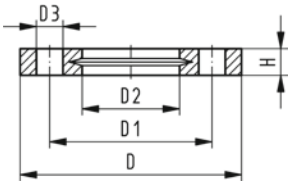
**Model:**

- Full-plastic flange PP-GF (30 % glass-fibre reinforced)
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D2024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes

| d (mm) | DN (mm) | d (inch) | PN (bar) | Standard | Bolt / circle | Design | Code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 20 | 15 | | 16 | Metric | PN10 | Butt/Socket | **727 700 406** | 0.093 |
| 20 | 15 | ½ | 16 | ASME | class 150 | Butt/Socket | **727 701 406** | 0.091 |
| 25 | 20 | | 16 | Metric | PN10 | Butt/Socket | **727 700 407** | 0.120 |
| 25 | 20 | ¾ | 16 | ASME | class 150 | Butt/Socket | **727 701 407** | 0.120 |
| 32 | 25 | | 16 | Metric | PN10 | Butt/Socket | **727 700 408** | 0.151 |
| 32 | 25 | 1 | 16 | ASME | class 150 | Butt/Socket | **727 701 408** | 0.147 |
| 40 | 32 | | 16 | Metric | PN10 | Butt/Socket | **727 700 409** | 0.244 |
| 40 | 32 | 1 ¼ | 16 | ASME | class 150 | Butt/Socket | **727 701 409** | 0.246 |
| 50 | 40 | | 16 | Metric | PN10 | Butt/Socket | **727 700 410** | 0.297 |
| 50 | 40 | 1 ½ | 16 | ASME | class 150 | Butt/Socket | **727 701 410** | 0.299 |
| 63 | 50 | | 16 | Metric | PN10 | Butt/Socket | **727 700 411** | 0.362 |
| 63 | 50 | 2 | 16 | ASME | class 150 | Butt/Socket | **727 701 411** | 0.361 |
| 75 | 65 | | 16 | Metric | PN10 | Butt/Socket | **727 700 412** | 0.487 |
| 75 | 65 | 2 ½ | 16 | ASME | class 150 | Butt/Socket | **727 701 412** | 0.492 |
| 90 | 80 | | 16 | Metric | PN10 | Socket | **727 700 413** | 0.550 |
| 90 | 80 | | 16 | Metric | PN10 | Butt | **727 700 513** | 0.544 |
| 90 | 80 | 3 | 16 | ASME | class 150 | Socket | **727 701 413** | 0.605 |
| 90 | 80 | 3 | 16 | ASME | class 150 | Butt | **727 701 513** | 0.607 |
| 110 | 100 | | 16 | Metric | PN10 | Socket | **727 700 414** | 0.640 |
| 110 | 100 | | 16 | Metric | PN10 | Butt | **727 700 514** | 0.643 |
| 110 | 100 | 4 | 16 | ASME | class 150 | Socket | **727 701 414** | 0.704 |
| 110 | 100 | 4 | 16 | ASME | class 150 | Butt | **727 701 514** | 0.736 |
| 125 | 100 | | 16 | Metric | PN10 | Butt | **727 700 515** | 0.635 |
| 140 | 125 | | 16 | Metric | PN10 | Socket | **727 700 416** | 0.781 |
| 140 | 125 | | 16 | Metric | PN10 | Butt | **727 700 516** | 0.842 |
| 160 | 150 | | 16 | Metric/ASME | PN10/ class 150 | Socket | **727 700 417** | 1.050 |
| 160 | 150 | 6 | 16 | Metric/ASME | PN10/ class 150 | Butt | **727 700 517** | 1.200 |
| 180 | 150 | | 16 | Metric/ASME | PN10/ Class 150 | Butt | **727 700 518** | 1.200 |
| 200 | 200 | | 16 | Metric/ASME | PN10/ class 150 | Socket | **727 700 419** | 1.629 |
| 200 | 200 | 8 | 16 | Metric/ASME | PN10/ class 150 | Butt | **727 700 519** | 1.400 |
| 225 | 200 | | 16 | Metric/ASME | PN10/ class 150 | Socket | **727 700 420** | 1.400 |
| 225 | 200 | 8 | 16 | Metric/ASME | PN10/ class 150 | Butt | **727 700 520** | 1.400 |
| 250 | 250 | | 10 | Metric | PN10 | Socket | **727 700 421** | 2.229 |
| 250 | 250 | | 10 | Metric | PN10 | Butt | **727 700 521** | 2.052 |
| 250 | 250 | 10 | 10 | ASME | class 150 | Butt | **727 701 521** | 2.241 |
| 280 | 250 | | 10 | Metric | PN10 | Socket | **727 700 422** | 1.651 |
| 280 | 250 | | 10 | Metric | PN10 | Butt | **727 700 522** | 1.700 |
| 280 | 250 | 10 | 10 | ASME | class 150 | Socket | **727 701 422** | 1.838 |
| 280 | 250 | 10 | 10 | ASME | class 150 | Butt | **727 701 522** | 2.173 |
| 315 | 300 | | 10 | Metric | PN10 | Socket | **727 700 423** | 2.461 |
| 315 | 300 | | 10 | Metric | PN10 | Butt | **727 700 523** | 2.400 |
| 315 | 300 | 12 | 10 | ASME | class 150 | Socket | **727 701 423** | 3.482 |
| 315 | 300 | 12 | 10 | ASME | class 150 | Butt | **727 701 523** | 3.627 |
| 355 | 350 | | 10 | Metric | PN10 | Socket | **727 700 424** | 3.000 |
| 355 | 350 | | 10 | Metric | PN10 | Butt | **727 700 524** | 4.440 |
| 400 | 400 | | 10 | Metric | PN10 | Socket | **727 700 425** | 5.135 |
| 400 | 400 | | 10 | Metric | PN10 | Butt | **727 700 525** | 5.624 |

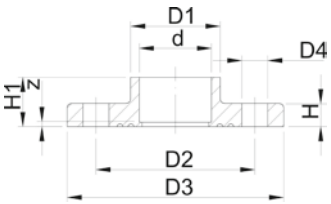
table continued on the next page




| d (mm) | D (mm) | D1 (mm) | D2 (mm) | D3 (mm) | H max. (mm) | AL | SC |
|---|---|---|---|---|---|---|---|
| 20 | 95 | 65 | 28 | 14 | 16 | 4 | M12 |
| 20 | 95 | 60 | 28 | 16 | 16 | 4 | M12 |
| 25 | 105 | 75 | 34 | 14 | 17 | 4 | M12 |
| 25 | 105 | 70 | 34 | 16 | 17 | 4 | M12 |
| 32 | 115 | 85 | 42 | 14 | 18 | 4 | M12 |
| 32 | 115 | 79 | 42 | 16 | 18 | 4 | M12 |
| 40 | 140 | 100 | 51 | 18 | 20 | 4 | M16 |
| 40 | 140 | 89 | 51 | 16 | 20 | 4 | M16 |
| 50 | 150 | 110 | 62 | 18 | 22 | 4 | M16 |
| 50 | 150 | 98 | 62 | 16 | 22 | 4 | M16 |
| 63 | 165 | 125 | 78 | 18 | 24 | 4 | M16 |
| 63 | 165 | 121 | 78 | 19 | 24 | 4 | M16 |
| 75 | 185 | 145 | 92 | 18 | 26 | 4 | M16 |
| 75 | 185 | 140 | 92 | 19 | 26 | 4 | M16 |
| 90 | 200 | 160 | 110 | 18 | 27 | 8 | M16 |
| 90 | 200 | 160 | 108 | 18 | 27 | 8 | M16 |
| 90 | 200 | 152 | 110 | 19 | 27 | 4 | M16 |
| 90 | 200 | 152 | 108 | 19 | 27 | 4 | M16 |
| 110 | 220 | 180 | 133 | 18 | 28 | 8 | M16 |
| 110 | 220 | 180 | 128 | 18 | 28 | 8 | M16 |
| 110 | 229 | 190 | 133 | 19 | 28 | 8 | M16 |
| 110 | 229 | 190 | 128 | 19 | 28 | 8 | M16 |
| 125 | 220 | 180 | 135 | 18 | 28 | 8 | M16 |
| 140 | 250 | 210 | 167 | 18 | 30 | 8 | M16 |
| 140 | 250 | 210 | 158 | 18 | 30 | 8 | M16 |
| 160 | 285 | 240 | 190 | 22 | 32 | 8 | M20 |
| 160 | 285 | 240 | 178 | 22 | 32 | 8 | M20 |
| 180 | 285 | 240 | 188 | 22 | 32 | 8 | M20 |
| 200 | 340 | 297 | 226 | 22 | 34 | 8 | M20 |
| 200 | 340 | 297 | 235 | 22 | 34 | 8 | M20 |
| 225 | 340 | 295 | 250 | 22 | 34 | 8 | M20 |
| 225 | 340 | 297 | 238 | 22 | 34 | 8 | M20 |
| 250 | 395 | 350 | 277 | 22 | 38 | 12 | M20 |
| 250 | 395 | 350 | 288 | 22 | 38 | 12 | M20 |
| 250 | 406 | 362 | 288 | 26 | 38 | 12 | M20 |
| 280 | 395 | 350 | 310 | 22 | 38 | 12 | M20 |
| 280 | 395 | 350 | 294 | 22 | 38 | 12 | M20 |
| 280 | 406 | 362 | 310 | 26 | 38 | 12 | M20 |
| 280 | 406 | 362 | 294 | 26 | 38 | 12 | M20 |
| 315 | 445 | 400 | 348 | 22 | 42 | 12 | M20 |
| 315 | 445 | 400 | 338 | 22 | 42 | 12 | M20 |
| 315 | 483 | 432 | 348 | 26 | 42 | 12 | M20 |
| 315 | 483 | 432 | 338 | 26 | 42 | 12 | M20 |
| 355 | 515 | 460 | 388 | 22 | 46 | 16 | M20 |
| 355 | 515 | 460 | 376 | 22 | 46 | 16 | M20 |
| 400 | 574 | 515 | 442 | 26 | 50 | 16 | M24 |
| 400 | 574 | 515 | 430 | 26 | 50 | 16 | M24 |

# Fixed flanges PVC-U JIS






### Fixed flange PVC-U
### Jointing face serrated JIS

**Model:**

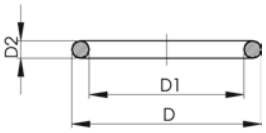
- Solvent cement socket metric
- Connecting dimensions: JIS B 2220, 10K

AL: number of holes

| d (mm) | DN (mm) | Inch (inch) | PN (bar) | Code | D1 (mm) | D2 (mm) | D3 (mm) | D4 (mm) | H (mm) | H1 (mm) | z (mm) | AL | SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 20 | ¾ | 16 | **161 481 552** | 33 | 75 | 100 | 15 | 13 | 22 | 3 | 4 | M12 |
| 32 | 25 | 1 | 16 | **161 481 553** | 41 | 90 | 125 | 19 | 15 | 25 | 3 | 4 | M12 |
| 40 | 32 | 1 ¼ | 16 | **161 481 554** | 51 | 100 | 135 | 19 | 17 | 29 | 3 | 4 | M16 |
| 50 | 40 | 1 ½ | 16 | **161 481 555** | 62 | 105 | 140 | 19 | 18 | 34 | 3 | 4 | M16 |
| 63 | 50 | 2 | 16 | **161 481 556** | 77 | 120 | 155 | 19 | 20 | 41 | 3 | 4 | M16 |

# Seals






### O-ring EPDM/FKM

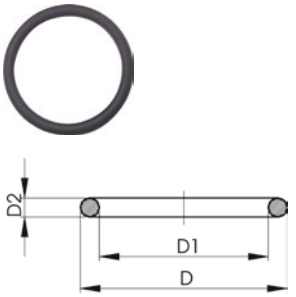
**Model:**

- For unions and adaptor unions
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FKM minimum temperature -15°C

* For unions PVC-U, PVC-C and ABS: 21 51 01, 21 51 11, 21 53 03, 21 53 08, 21 55 04, 21 55 13, 21 55 18, 23 51 01 and 29 51 01 only

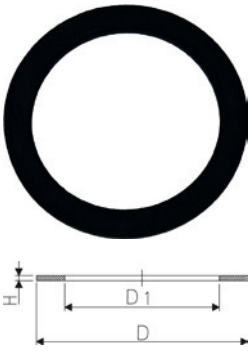
| | d (mm) | DN (mm) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) |
|---|---|---|---|---|---|---|
| | 10 - 12 | 8 | **748 410 004** | 0.002 | **749 410 004** | 0.020 |
| | 16 | 10 | **748 410 005** | 0.002 | **749 410 005** | 0.002 |
| | 20 | 15 | **748 410 006** | 0.002 | **749 410 006** | 0.002 |
| | 25 | 20 | **748 410 007** | 0.002 | **749 410 007** | 0.002 |
| | 32 | 25 | **748 410 008** | 0.003 | **749 410 008** | 0.002 |
| | 40 | 32 | **748 410 009** | 0.003 | **749 410 009** | 0.007 |
| | 50 | 40 | **748 410 010** | 0.004 | **749 410 010** | 0.060 |
| | 63 | 50 | **748 410 011** | 0.005 | **749 410 011** | 0.003 |
| * | 90 | 80 | **748 410 248** | 0.002 | **749 410 248** | 0.020 |

| | d (mm) | D (mm) | D1 (mm) | D2 (mm) | closest inch (inch) |
|---|---|---|---|---|---|
| | 10 - 12 | 17.62 | 12.37 | 2.62 | ¼ |
| | 16 | 20.78 | 15.54 | 2.62 | ⅜ |
| | 20 | 27.28 | 20.22 | 3.53 | ½ |
| | 25 | 35.23 | 28.17 | 3.53 | ¾ |
| | 32 | 39.99 | 32.93 | 3.53 | 1 |
| | 40 | 51.33 | 40.65 | 5.34 | 1 ¼ |
| | 50 | 57.68 | 46.99 | 5.34 | 1 ½ |
| | 63 | 70.37 | 59.69 | 5.34 | 2 |
| * | 90 | 105.30 | 94.62 | 5.34 | 3 |




## O-Ring gasket
## Union end seal

| d (mm) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) | D2 (mm) | D1 (mm) | D (mm) |
|---|---|---|---|---|---|---|---|
| 20 | **748 410 038** | 0.003 | **749 410 038** | 0.002 | 2.00 | 23 | 27 |
| 25 | **748 410 044** | 0.003 | **749 410 044** | 0.003 | 2.50 | 28 | 33 |
| 32 | **748 410 195** | 0.003 | **749 410 195** | 0.003 | 2.50 | 36 | 41 |
| 40 | **748 410 052** | 0.005 | **749 410 052** | 0.003 | 3.50 | 45 | 52 |
| 50 | **748 410 134** | 0.003 | **749 410 134** | 0.003 | 3.00 | 52 | 58 |
| 63 | **748 410 135** | 0.002 | **749 410 135** | 0.003 | 3.53 | 66 | 73 |

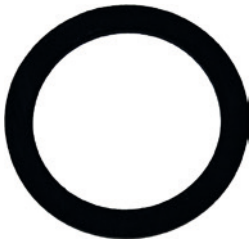



## Flat gasket
## For tank adaptors

**Model:**

- Hardness approx. 65° Shore
- For adaptor unions

| Size (inch) | EPDM Code | Weight (kg) | FKM Code | Weight (kg) | D (mm) | D1 (mm) | H (mm) |
|---|---|---|---|---|---|---|---|
| ¼ | **748 400 004** | 0.002 | | | 20 | 13 | 2 |
| ⅜ | **748 400 005** | 0.002 | **749 400 005** | 0.020 | 24 | 17 | 2 |
| ½ | **748 400 006** | 0.002 | **749 400 006** | 0.003 | 30 | 21 | 3 |
| ¾ | **748 400 007** | 0.003 | **749 400 007** | 0.004 | 38 | 27 | 3 |
| 1 | **748 400 008** | 0.010 | **749 400 008** | 0.002 | 44 | 32 | 3 |
| 1 ¼ | **748 400 009** | 0.007 | **749 400 009** | 0.003 | 55 | 42 | 3 |
| 1 ½ | **748 400 010** | 0.004 | **749 400 010** | 0.007 | 62 | 46 | 3 |
| 2 | **748 400 011** | 0.005 | **749 400 011** | 0.006 | 78 | 60 | 3 |
| 2 ½ | **748 400 012** | 0.010 | **749 400 012** | 0.009 | 97 | 75 | 3 |
| 3 | **748 400 013** | 0.011 | **749 400 013** | 0.011 | 109 | 88 | 3 |

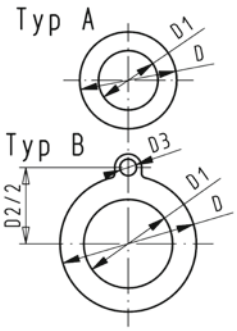


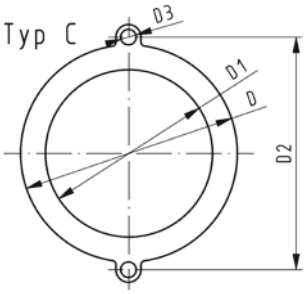
## Flat gasket
## EPDM

**Model:**

- For all metric GF Flange Adaptors
- Hardness approx. 65° Shore
- Integrated fixation aids from d110
- Centering on the inner diameter of the screw crown

di FA are the suitable inner diameters of flanges adaptors

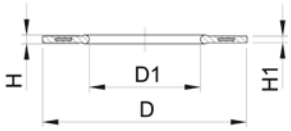



| d (mm) | DN (mm) | PN (bar) | Type | EPDM Code | Weight (kg) | D (mm) | D1 (mm) | D2 (mm) | D3 (mm) | H (mm) | di FA (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | A | **748 400 305** | 0.004 | 46 | 16 | | | 2 | 6 - 26 |
| 20 | 15 | 10 | A | **748 400 306** | 0.012 | 51 | 20 | | | 2 | 10 - 30 |
| 25 | 20 | 10 | A | **748 400 307** | 0.004 | 61 | 25 | | | 2 | 15 - 35 |
| 32 | 25 | 10 | A | **748 400 308** | 0.008 | 71 | 32 | | | 2 | 22 - 42 |
| 40 | 32 | 10 | A | **748 400 309** | 0.013 | 82 | 40 | | | 3 | 30 - 50 |
| 50 | 40 | 10 | A | **748 400 310** | 0.016 | 92 | 50 | | | 3 | 40 - 60 |
| 63 | 50 | 10 | A | **748 400 311** | 0.018 | 107 | 63 | | | 3 | 53 - 73 |
| 75 | 65 | 10 | A | **748 400 312** | 0.029 | 127 | 71 | | | 3 | 61 - 81 |
| 90 | 80 | 10 | A | **748 400 313** | 0.035 | 142 | 84 | | | 3 | 74 - 94 |
| 110 | 100 | 10 | B | **748 400 314** | 0.051 | 162 | 104 | 180 | 18 | 4 | 94 - 114 |
| 125 | 100 | 10 | B | **748 400 315** | 0.044 | 162 | 119 | 180 | 18 | 4 | 109 - 129 |
| 140 | 125 | 10 | B | **748 400 316** | 0.068 | 192 | 134 | 210 | 18 | 4 | 124 - 144 |
| 160 - 180 | 150 | 10 | B | **748 400 317** | 0.090 | 218 | 155 | 241 | 22 | 4 | 145 - 165 |
| 200 | 200 | 6 | C | **748 400 319** | 0.180 | 273 | 195 | 295 | 22 | 5 | 185 - 205 |
| 225 | 200 | 6 | C | **748 400 320** | 0.140 | 273 | 216 | 295 | 22 | 5 | 206 - 226 |
| 250 | 250 | 6 | C | **748 400 321** | 0.210 | 328 | 250 | 350 | 22 | 5 | 240 - 260 |
| 280 | 250 | 6 | C | **748 400 322** | 0.151 | 328 | 273 | 350 | 22 | 5 | 263 - 283 |
| 315 | 300 | 6 | C | **748 400 323** | 0.237 | 378 | 305 | 400 | 22 | 5 | 295 - 315 |








## Profile flange gasket NBR
## Metric

**Model:**

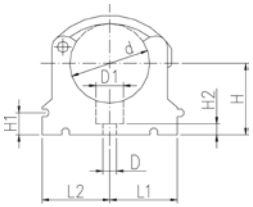
- NBR = Nitrile rubber, hardness approx. 80° Shore
- For all metric GF Flange Adaptors
- Rubber-steel body combined with rubber profile cord ring up to d630
- Rubber-steel body ideal for big dimensions (d710 - d1000)
- Approved acc. to DVGW standard DIN EN 682 for gas
- D corresponds to the centring at the inner diameter of the screw crown

| d (mm) | DN (mm) | PN (bar) | NBR Code | Weight (kg) | D (mm) | D1 (mm) | H (mm) | H1 (mm) | di FA (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 20 | 15 | 16 | **745 440 706** | 0.009 | 51 | 20 | 4 | 3 | 10 - 20 |
| 25 | 20 | 16 | **745 440 707** | 0.012 | 61 | 22 | 4 | 3 | 12 - 22 |
| 32 | 25 | 16 | **745 440 708** | 0.018 | 71 | 28 | 4 | 3 | 18 - 28 |
| 40 | 32 | 16 | **745 440 709** | 0.021 | 82 | 40 | 4 | 3 | 30 - 40 |
| 50 | 40 | 16 | **745 440 710** | 0.029 | 92 | 46 | 4 | 3 | 36 - 46 |
| 63 | 50 | 16 | **745 440 711** | 0.039 | 107 | 58 | 5 | 4 | 48 - 58 |
| 75 | 65 | 16 | **745 440 712** | 0.058 | 127 | 69 | 5 | 4 | 59 - 69 |
| 90 | 80 | 16 | **745 440 713** | 0.063 | 142 | 84 | 5 | 4 | 73 - 84 |
| 110 | 100 | 16 | **745 440 714** | 0.096 | 162 | 104 | 6 | 5 | 94 - 104 |
| 125 | 100 | 16 | **745 440 715** | 0.073 | 162 | 123 | 6 | 5 | 113 - 123 |
| 140 | 125 | 16 | **745 440 716** | 0.128 | 192 | 137 | 6 | 5 | 127 - 137 |
| 160 - 180 | 150 | 16 | **745 440 717** | 0.145 | 218 | 160 | 8 | 6 | 150 - 160 |
| 200 | 200 | 16 | **745 440 719** | 0.286 | 273 | 203 | 8 | 6 | 192 - 203 |
| 225 | 200 | 16 | **745 440 720** | 0.183 | 273 | 220 | 6 | 5 | 207 - 220 |
| 250 | 250 | 16 | **745 440 721** | 0.355 | 328 | 252 | 8 | 6 | 238 - 252 |
| 280 | 250 | 16 | **745 440 722** | 0.229 | 328 | 274 | 6 | 5 | 264 - 274 |
| 315 | 300 | 16 | **745 440 723** | 0.419 | 378 | 306 | 8 | 6 | 296 - 306 |
| 355 | 350 | 16 | **745 440 724** | 0.645 | 438 | 355 | 7 | 6 | 340 - 355 |
| 400 | 400 | 16 | **745 440 725** | 0.819 | 489 | 400 | 7 | 6 | 385 - 400 |
| 450 | 500 | 10 | **745 440 726** | 1.885 | 594 | 403 | 10 | 7 | 393 - 403 |
| 500 | 500 | 10 | **745 440 727** | 1.618 | 594 | 447 | 10 | 7 | 437 - 447 |
| 560 | 600 | 10 | **745 440 728** | 2.281 | 695 | 494 | 10 | 7 | 484 - 494 |
| 630 | 600 | 10 | **745 440 729** | 2.000 | 695 | 555 | 10 | 7 | 545 - 555 |
| 710 | 700 | 6 | **745 440 733** | 0.403 | 810 | 712 | 6 | 3 | 562 - 712 |
| 800 | 800 | 6 | **745 440 734** | 0.403 | 917 | 813 | 6 | 3 | 663 - 813 |
| 900 | 900 | 6 | **745 440 735** | 0.403 | 1017 | 915 | 6 | 3 | 765 - 915 |
| 1000 | 1000 | 6 | **745 440 736** | 0.403 | 1124 | 1016 | 6 | 3 | 866 - 1016 |

# Pipe clips metric











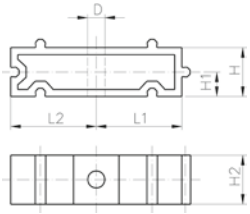
## KLIP-IT pipe clip type 061 PP metric

**Model:**

- Material: clip and safety clip PP black, UV resistant
- d16 - d63: height designed for ball valve type 546 and 543
- **Minimum order quantity: standard packagings SP**

| | d (mm) | Code | Weight (kg) | D (mm) | D1 (mm) | H (mm) | H1 (mm) | H2 (mm) | H3 (mm) | L1 (mm) | L2 (mm) | SC | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * | 10 | **167 061 003** | 0.003 | 5 | 8 | 20 | 10 | 6 | 12 | 11 | 14 | M4 | ⅛ |
| * | 12 | **167 061 004** | 0.003 | 5 | 8 | 21 | 10 | 6 | 12 | 11 | 14 | M5 | ¼ |
| * | 16 | **167 061 035** | 0.007 | 6 | 11 | 27 | 10 | 6 | 16 | 14 | 17 | M5 | ⅜ |
| * | 20 | **167 061 036** | 0.007 | 6 | 11 | 27 | 10 | 6 | 16 | 17 | 19 | M5 | ½ |
| * | 25 | **167 061 037** | 0.009 | 6 | 11 | 30 | 10 | 6 | 16 | 19 | 22 | M5 | ¾ |
| * | 32 | **167 061 038** | 0.012 | 6 | 11 | 36 | 10 | 6 | 16 | 24 | 27 | M5 | 1 |
| | 40 | **167 061 039** | 0.027 | 7 | 14 | 44 | 10 | 7 | 22 | 34 | 34 | M6 | 1 ¼ |
| | 50 | **167 061 040** | 0.031 | 7 | 14 | 51 | 10 | 7 | 22 | 37 | 37 | M6 | 1 ½ |
| | 63 | **167 061 041** | 0.052 | 9 | 17 | 64 | 10 | 10 | 25 | 45 | 45 | M8 | 2 |
| | 75 | **167 061 012** | 0.057 | 9 | 17 | 58 | 10 | 10 | 25 | 52 | 52 | M8 | 2 ½ |
| | 90 | **167 061 013** | 0.092 | 9 | 17 | 65 | 10 | 10 | 28 | 65 | 65 | M8 | 3 |
| | 110 | **167 061 014** | 0.117 | 9 | 17 | 75 | 10 | 10 | 28 | 79 | 79 | M8 | 4 |
| | 125 | **167 061 015** | 0.180 | 9 | 17 | 90 | 10 | 10 | 32 | 88 | 88 | M8 | |
| | 140 | **167 061 016** | 0.224 | 9 | 17 | 110 | 10 | 10 | 32 | 98 | 98 | M8 | 5 |
| | 160 | **167 061 017** | 0.242 | 9 | 17 | 108 | 10 | 10 | 32 | 109 | 109 | M8 | 6 |






## KLIP-IT spacer type 061 PP

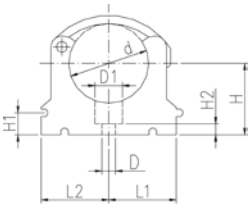
**Model:**

- For pipe clips type 061/061H, PP black, UV resistant
- **Minimum order quantity: standard packaging SP**

| d (mm) | Inch (inch) | Code | Weight (kg) | D (mm) | L1 (mm) | L2 (mm) | H (mm) | H1 (mm) | H2 (mm) | SC |
|---|---|---|---|---|---|---|---|---|---|---|
| 10 - 12 | ⅛ - ¼ | **167 061 153** | 0.003 | 5 | 11 | 14 | 20 | 10 | 12 | M4 |
| 16 | ⅜ | **167 061 155** | 0.005 | 6 | 14 | 17 | 20 | 10 | 16 | M5 |
| 20 | ½ | **167 061 156** | 0.005 | 6 | 17 | 19 | 20 | 10 | 16 | M5 |
| 25 | ¾ | **167 061 157** | 0.007 | 6 | 19 | 22 | 20 | 10 | 16 | M5 |
| 32 | 1 | **167 061 158** | 0.006 | 6 | 24 | 27 | 20 | 10 | 16 | M5 |
| 40 | 1 ¼ | **167 061 159** | 0.015 | 7 | 34 | 34 | 20 | 10 | 22 | M6 |
| 50 | 1 ½ | **167 061 160** | 0.017 | 7 | 37 | 37 | 20 | 10 | 22 | M6 |
| 63 | 2 | **167 061 161** | 0.020 | 9 | 45 | 45 | 20 | 10 | 25 | M8 |
| 75 | 2 ½ | **167 061 162** | 0.027 | 9 | 52 | 52 | 20 | 10 | 25 | M8 |
| 90 | 3 | **167 061 163** | 0.039 | 9 | 65 | 65 | 20 | 10 | 28 | M8 |
| 110 | 4 | **167 061 164** | 0.048 | 9 | 79 | 79 | 20 | 10 | 28 | M8 |
| 125 | 4 ½ | **167 061 165** | 0.059 | 9 | 88 | 88 | 20 | 10 | 32 | M8 |
| 140 | 5 | **167 061 166** | 0.065 | 9 | 98 | 98 | 20 | 10 | 32 | M8 |
| 160 | 6 | **167 061 167** | 0.071 | 9 | 109 | 109 | 20 | 10 | 32 | M8 |











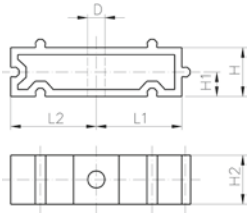
## KLIP-IT pipe clip type 061 PE metric

**Model:**

- Material: clip PE and safety clip PP black, bolts galvanized
- **Minimum order quantity: standard packaging SP**
- Height not designed for ball valve 546 and 543. Please use spacer 73 06 11.

| | d (mm) | Code | Weight (kg) | D (mm) | D1 (mm) | L1 (mm) | L2 (mm) | H (mm) | H1 (mm) | H2 (mm) | H3 (mm) | SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * | 10 | **173 061 003** | 0.003 | 5 | 8 | 11 | 14 | 20 | 10 | 6 | 12 | M4 |
| * | 12 | **173 061 004** | 0.006 | 5 | 8 | 11 | 14 | 21 | 10 | 6 | 12 | M5 |
| * | 16 | **173 061 005** | 0.006 | 6 | 11 | 14 | 17 | 23 | 10 | 6 | 16 | M5 |
| * | 20 | **173 061 006** | 0.007 | 6 | 11 | 17 | 19 | 25 | 10 | 6 | 16 | M5 |
| * | 25 | **173 061 007** | 0.009 | 6 | 11 | 19 | 22 | 28 | 10 | 6 | 16 | M5 |
| * | 32 | **173 061 008** | 0.011 | 6 | 11 | 24 | 27 | 31 | 10 | 6 | 16 | M5 |
| | 40 | **173 061 009** | 0.026 | 7 | 14 | 34 | 34 | 44 | 10 | 7 | 22 | M6 |
| | 50 | **173 061 010** | 0.028 | 7 | 14 | 37 | 37 | 40 | 10 | 7 | 22 | M6 |
| | 63 | **173 061 011** | 0.047 | 9 | 17 | 45 | 45 | 52 | 10 | 10 | 25 | M8 |
| | 75 | **173 061 012** | 0.061 | 9 | 17 | 52 | 52 | 58 | 10 | 10 | 25 | M8 |
| | 90 | **173 061 013** | 0.098 | 9 | 17 | 65 | 65 | 64 | 10 | 10 | 28 | M8 |
| | 110 | **173 061 014** | 0.125 | 9 | 17 | 79 | 79 | 75 | 10 | 10 | 28 | M8 |
| | 125 | **173 061 015** | 0.194 | 9 | 17 | 88 | 88 | 90 | 10 | 10 | 32 | M8 |
| | 140 | **173 061 016** | 0.243 | 9 | 17 | 98 | 98 | 110 | 10 | 10 | 32 | M8 |
| | 160 | **173 061 017** | 0.254 | 9 | 17 | 109 | 109 | 108 | 10 | 10 | 32 | M8 |





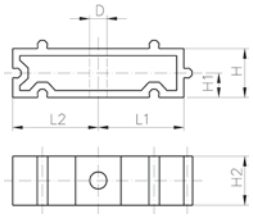

## KLIP-IT spacer type 061 PE

**Model:**

- **Minimum order quantity: standard packaging SP**
- For pipe clips type 061, PE black, UV resistant

| d (mm) | Inch (inch) | Code | Weight (kg) | D (mm) | L1 (mm) | L2 (mm) | H (mm) | H1 (mm) | H2 (mm) | SC |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 3/8 | **173 061 155** | 0.005 | 6 | 14 | 17 | 20 | 10 | 16 | M5 |
| 20 | 1/2 | **173 061 156** | 0.005 | 6 | 17 | 19 | 20 | 10 | 16 | M5 |
| 25 | 3/4 | **173 061 157** | 0.006 | 6 | 19 | 22 | 20 | 10 | 16 | M5 |
| 32 | 1 | **173 061 158** | 0.008 | 6 | 24 | 27 | 20 | 10 | 16 | M5 |
| 40 | 1 1/4 | **173 061 159** | 0.016 | 7 | 34 | 34 | 20 | 10 | 22 | M6 |

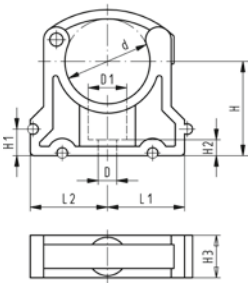
table continued on the next page




| d (mm) | Inch (inch) | Code | Weight (kg) | D (mm) | L1 (mm) | L2 (mm) | H (mm) | H1 (mm) | H2 (mm) | SC |
|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 1 1/2 | **173 061 160** | 0.017 | 7 | 37 | 37 | 20 | 10 | 22 | M6 |
| 63 | 2 | **173 061 161** | 0.025 | 9 | 45 | 45 | 20 | 10 | 25 | M8 |
| 75 | 2 1/2 | **173 061 162** | 0.027 | 9 | 52 | 52 | 20 | 10 | 25 | M8 |
| 90 | 3 | **173 061 163** | 0.040 | 9 | 65 | 65 | 20 | 10 | 28 | M8 |
| 110 | 4 | **173 061 164** | 0.050 | 9 | 79 | 79 | 20 | 10 | 28 | M8 |
| 125 | 4 1/2 | **173 061 165** | 0.059 | 9 | 88 | 88 | 20 | 10 | 32 | M8 |
| 140 | 5 | **173 061 166** | 0.065 | 9 | 98 | 98 | 20 | 10 | 32 | M8 |
| 160 | 6 | **173 061 167** | 0.078 | 9 | 109 | 109 | 20 | 10 | 32 | M8 |








## KLIP-IT pipe clip type 061 PP BS/ASTM

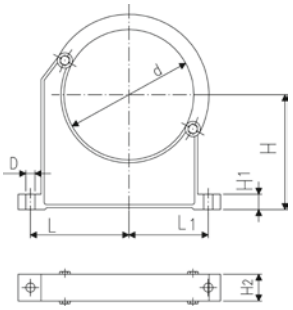
**Model:**

- For BS/ASTM pipes
- Material: clip and safety clip PP black, UV resistant
- 3/8" - 2": height designed for Ball Valve Type 546 and 543
- **Minimum order quantity: standard packaging SP**

| | d (inch) | Code | Weight (kg) |
|---|---|---|---|
| * | ⅜ | **167 061 085** | 0.006 |
| * | ½ | **167 061 086** | 0.009 |
| * | ¾ | **167 061 087** | 0.007 |
| * | 1 | **167 061 088** | 0.012 |
| | 1 ¼ | **167 061 089** | 0.025 |
| | 1 ½ | **167 061 090** | 0.032 |
| | 2 | **167 061 091** | 0.052 |
| | 2 ½ | **167 061 112** | 0.062 |
| | 3 | **167 061 013** | 0.092 |
| | 4 | **167 061 114** | 0.114 |
| | 5 | **167 061 016** | 0.224 |

| | d (inch) | D (mm) | D1 (mm) | H (mm) | H1 (mm) | H2 (mm) | H3 (mm) | L1 (mm) | L2 (mm) | SC | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| * | ⅜ | 6 | 10 | 27 | 10 | 6 | 16 | 14 | 17 | M5 | |
| * | ½ | 6 | 10 | 27 | 10 | 6 | 16 | 17 | 19 | M5 | |
| * | ¾ | 6 | 10 | 30 | 10 | 6 | 16 | 19 | 22 | M5 | |
| * | 1 | 6 | 10 | 36 | 10 | 6 | 16 | 24 | 27 | M5 | |
| | 1 ¼ | 7 | 14 | 44 | 10 | 7 | 22 | 34 | 34 | M6 | |
| | 1 ½ | 7 | 14 | 51 | 10 | 7 | 22 | 37 | 37 | M6 | |
| | 2 | 9 | 17 | 64 | 10 | 10 | 25 | 45 | 45 | M8 | |
| | 2 ½ | 9 | 17 | 58 | 10 | 10 | 25 | 52 | 52 | M8 | |
| | 3 | 9 | 17 | 65 | 10 | 10 | 28 | 65 | 65 | M8 | 3 |
| | 4 | 9 | 17 | 81 | 10 | 10 | 28 | 79 | 79 | M8 | |
| | 5 | 9 | 17 | 110 | 10 | 10 | 32 | 98 | 98 | M8 | 5 |






## Pipe clip type 060 PP metric

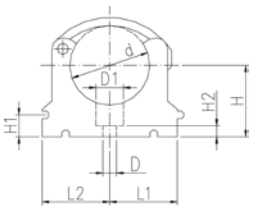
**Model:**

- Material: clip and safety clip PP black, UV resistant
- **Minimum order quantity: standard packaging SP or gross packaging GP**
- Accidental opening of the safety clip is not possible
- Clip and safety clip are not assembled in the packaging.
- Pipes with flanges can be installed directly

| d (mm) | Code | Weight (kg) | D (mm) | L (mm) | L1 (mm) | H (mm) | H1 (mm) | H2 (mm) | SC | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|
| 90 | **167 060 038** | 0.144 | 9 | 89 | 71 | 105 | 15 | 33 | M 8 | 3 |
| 110 | **167 060 039** | 0.158 | 9 | 94 | 80 | 115 | 15 | 33 | M 8 | 4 |
| 125 | **167 060 040** | 0.249 | 11 | 116 | 91 | 130 | 20 | 35 | M10 | |
| 140 | **167 060 041** | 0.260 | 11 | 121 | 99 | 130 | 20 | 35 | M10 | 5 |
| 160 | **167 060 042** | 0.296 | 11 | 131 | 107 | 148 | 20 | 35 | M10 | 6 |
| 180 | **167 060 043** | 0.327 | 11 | 143 | 115 | 163 | 20 | 35 | M10 | 7 |
| 200 | **167 060 019** | 0.539 | 13 | 151 | 120 | 175 | 25 | 39 | M12 | 8 |
| 225 | **167 060 020** | 0.612 | 13 | 164 | 132 | 175 | 25 | 39 | M12 | 8 |
| 250 | **167 060 021** | 0.657 | 13 | 183 | 143 | 200 | 25 | 39 | M12 | 9 |
| 280 | **167 060 022** | 0.722 | 13 | 197 | 156 | 200 | 25 | 39 | M12 | 10 |
| 315 | **167 060 023** | 0.805 | 13 | 219 | 171 | 225 | 25 | 39 | M12 | 12 |
| 355 | **167 060 024** | 1.251 | 17 | 275 | 209 | 258 | 30 | 50 | M16 | 14 |
| 400 | **167 060 025** | 1.031 | 17 | 300 | 228 | 288 | 30 | 50 | M16 | 16 |











## KLIP-IT pipe clip type 061 PP metric

**Model:**

- Material: clip and safety clip PP black, UV resistant
- d16 - d63: height designed for ball valve type 546 and 543
- **Minimum order quantity: standard packagings SP**

| | d (mm) | Code | Weight (kg) | D (mm) | D1 (mm) | H (mm) | H1 (mm) | H2 (mm) | H3 (mm) | L1 (mm) | L2 (mm) | SC | closest inch (inch) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * | 10 | **167 061 003** | 0.003 | 5 | 8 | 20 | 10 | 6 | 12 | 11 | 14 | M4 | ⅛ |
| * | 12 | **167 061 004** | 0.003 | 5 | 8 | 21 | 10 | 6 | 12 | 11 | 14 | M5 | ¼ |
| * | 16 | **167 061 035** | 0.007 | 6 | 11 | 27 | 10 | 6 | 16 | 14 | 17 | M5 | ⅜ |
| * | 20 | **167 061 036** | 0.007 | 6 | 11 | 27 | 10 | 6 | 16 | 17 | 19 | M5 | ½ |
| * | 25 | **167 061 037** | 0.009 | 6 | 11 | 30 | 10 | 6 | 16 | 19 | 22 | M5 | ¾ |
| * | 32 | **167 061 038** | 0.012 | 6 | 11 | 36 | 10 | 6 | 16 | 24 | 27 | M5 | 1 |
| | 40 | **167 061 039** | 0.027 | 7 | 14 | 44 | 10 | 7 | 22 | 34 | 34 | M6 | 1 ¼ |
| | 50 | **167 061 040** | 0.031 | 7 | 14 | 51 | 10 | 7 | 22 | 37 | 37 | M6 | 1 ½ |
| | 63 | **167 061 041** | 0.052 | 9 | 17 | 64 | 10 | 10 | 25 | 45 | 45 | M8 | 2 |
| | 75 | **167 061 012** | 0.057 | 9 | 17 | 58 | 10 | 10 | 25 | 52 | 52 | M8 | 2 ½ |
| | 90 | **167 061 013** | 0.092 | 9 | 17 | 65 | 10 | 10 | 28 | 65 | 65 | M8 | 3 |
| | 110 | **167 061 014** | 0.117 | 9 | 17 | 75 | 10 | 10 | 28 | 79 | 79 | M8 | 4 |
| | 125 | **167 061 015** | 0.180 | 9 | 17 | 90 | 10 | 10 | 32 | 88 | 88 | M8 | |
| | 140 | **167 061 016** | 0.224 | 9 | 17 | 110 | 10 | 10 | 32 | 98 | 98 | M8 | 5 |
| | 160 | **167 061 017** | 0.242 | 9 | 17 | 108 | 10 | 10 | 32 | 109 | 109 | M8 | 6 |

# UNI-Coupling



## Your benefits

+ **Noise-insulating**
+ **Full flow design**
+ **Elasticity to follow building shape**
+ **Flexibility helps where space is limited**
+ **Cost-effective prefabricated solutions**
+ **One system from point of entry to lap**
+ **Excellent pressure and temperature resistant**
+ **Complete system in one pipe material**
+ **Simplicity with electro fusion fittings**

## Technical data

**Materials**
PB, DZR brass

**Dimensions range**
d16 mm – d315 mm

**Jointing technology**
Electro fusion, socket fusion, butt fusion, compression joints

**Operating pressure**
Up to 16 bar

**Operating temperature**
–10°C to 95°C

The value above listed are to be considered for water, in case of use chemical addition it is always recommended to contact GF specialist to an individual and more detailed assessment.

# UNI-Coupling type overview

**The UNI-Coupling is available in various types.**

**UNI-Grip**
- To connect metal - metal
- For restraint jointing
- With patented wedge shaped seal
- With 2 grip rings for metal pipes
- Stainless steel 1.4571 (W5) quality

**UNI-Plastgrip**
- To connect plastic - plastic
- For restraint jointing
- With patented wedge shaped seal
- With 2 grip rings for plastic pipes
- Stainless steel 1.4571 (W5) quality

**UNI-Combigrip**
- To connect metal - plastic
- For restraint jointing
- With patented wedge shaped seal
- With 1 grip ring for metal pipes
- With 1 grip ring for plastic pipes
- Stainless steel 1.4571 (W5) quality

**UNI-Flex**
- To connect metal - plastic
- To connect metal - metal
- To connect plastic - plastic
- For flexible jointing
- With patented wedge shaped seal
- Stainless steel 1.4571 (W5) quality

**UNI-Rep**
- To connect metal - plastic
- To connect metal - metal
- To connect plastic - plastic
- For flexible jointing
- With patented wedge shaped seal
- With clamp mechanism for repairing under pressure
- Stainless steel 1.4571 (W5) quality

**UNI-Grip / UNI-Plastgrip / UNI-Combigrip**



**UNI-Flex**



**UNI-Rep**



**Seal and Grip Ring**



# Technical data overview

| Type | OD Ø (mm) | Width (mm) | Pressure PN (bar) |
|---|---|---|---|
|  **UNI-Grip** | 21 -172 | 45 - 110 | 16 to 60 |
| | 180 - 745 | 137/206<br>other widths<br>on request | 2,5 to 25 |
|  **UNI-Plastgrip** | 39 -165 | 60 - 110 | 16 |
|  **UNI-Combigrip** | 39 -165 | 60 - 110 | 16 |
|  **UNI-Flex** | 21 -172 | 45 - 110 | 16 to 25 |
| | 180 - 2090 | 137/206<br>280/420 | 2,5 to 25 |
|  **UNI-Rep** | 36 -172 | 60 - 110 | 16 - 25 |
| | 180 - 745 | 137/206<br>280/420 | 2,5 to 25 |

| Wider range | OD Ø (mm) | Number of couplers | Material quality | |
|---|---|---|---|---|
| **UNI-Coupling** | | | | |
| | 21 - 47,5 | 7 | standard W5 | to 5 mm thickness |
| | 47,5 - 172 | 15 | standard W5 | to 5 mm thickness |

| Connecting | Metal - Metal | Plastic - Plastic | Metal - Plastic | Restrained / Flexible |
|---|---|---|---|---|
| **UNI-Grip** | X | | | restrained |
| **UNI-Plastgrip** | | X | | restrained |
| **UNI-Combigrip** | | | X | restrained |
| **UNI-Flex** | X | X | X | flexible |
| **UNI-Rep** | X | X | X | flexible |

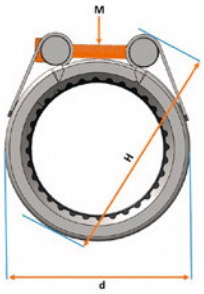
| Sealing material | EPDM › 21 - 172 mm | EPDM › 180 mm | NBR | Silicone or Viton |
|---|---|---|---|---|
| **Temperature range** | -30 °C - +125 °C | -30 °C - +80 °C | -20 °C - +80 °C | on request |
| **Medium** | drinking water, waste water, compressed air, alcohol and solids | drinking water, waste water, compressed air, alcohol and solids | water, gas, oil, fuel, and other hydrocarbons | on request |

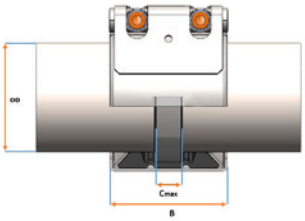
| Quality | Housing | Lock bars | Bolts | Anchoring |
|---|---|---|---|---|
| **W5** | 1.4571 / 316 Ti | 1.4571 / 316 Ti | A4 – 80 / 316 Ti | 1.4310 / 301 |

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|  | UNI-Grip | 774 |
|  | UNI-Plastgrip | 779 |
|  | UNI-Combigrip | 781 |
|  | UNI-Flex | 783 |
|  | UNI-Rep | 787 |
|  | Insert stiffener | 790 |
|  | Accessories | 792 |

# UNI-Grip






**UNI-Grip S coupling stainless steel 1.4571**
**Tensile-resistant connection of metal and metal**
**PN16 Solid bolt**

**Model:**

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

**Temperature/Pressure:**

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

**Option:**

- Sealing type Viton (FKM) for OD nominal ≥ 185 mm on request

*Restricted working conditions for CuNiFe tubes with a wall thickness ≤ to 4 mm. For pipe dimensions with an asterix, these may only be loaded with max PN 2,5.

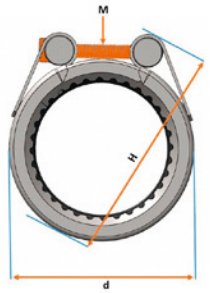
**Attention:**

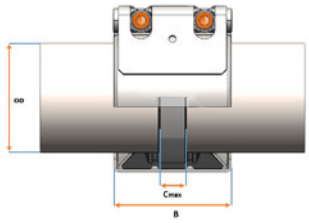
- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

| | OD nominal (mm) (mm) | EPDM Code | NBR Code | Weight (kg) |
|---|---|---|---|---|
| | 21.0 - 24.0 | **779 764 001** | **779 762 001** | 0.2 |
| | 25.0 - 29.0 | **779 764 002** | **779 762 002** | 0.2 |
| | 29.0 - 32.0 | **779 764 003** | **779 762 003** | 0.2 |
| | 33.0 - 36.0 | **779 764 004** | **779 762 004** | 0.2 |
| | 36.0 - 39.0 | **779 764 005** | **779 762 005** | 0.4 |
| | 39.0 - 43.0 | **779 764 006** | **779 762 006** | 0.4 |
| | 43.0 - 47.5 | **779 764 007** | **779 762 007** | 0.4 |
| | 47.5 - 52.5 | **779 764 008** | **779 762 008** | 0.4 |
| | 52.5 - 58.0 | **779 764 009** | **779 762 009** | 0.6 |
| | 58.0 - 64.0 | **779 764 010** | **779 762 010** | 0.6 |
| | 64.0 - 72.0 | **779 764 011** | **779 762 011** | 1.4 |
| | 72.0 - 80.0 | **779 764 012** | **779 762 012** | 1.4 |
| | 80.0 - 88.0 | **779 764 013** | **779 762 013** | 1.6 |
| | 88.0 - 96.0 | **779 764 014** | **779 762 014** | 1.6 |
| | 97.0 - 105.0 | **779 764 015** | **779 762 015** | 1.7 |
| | 104.0 - 112.0 | **779 764 016** | **779 762 016** | 1.7 |
| | 112.0 - 120.0 | **779 764 017** | **779 762 017** | 1.9 |
| | 122.0 - 130.0 | **779 764 018** | **779 762 018** | 1.9 |
| | 129.0 - 137.0 | **779 764 019** | **779 762 019** | 3.4 |
| | 137.0 - 145.0 | **779 764 020** | **779 762 020** | 3.5 |
| | 149.0 - 157.0 | **779 764 021** | **779 762 021** | 3.6 |
| | 157.0 - 165.0 | **779 764 022** | **779 762 022** | 3.7 |
| | 164.0 - 172.0 | **779 764 023** | **779 762 023** | 3.8 |
| | 185.0 - 198.0 | **779 764 024** | | |
| | 198.0 - 211.0 | **779 764 025** | **779 762 025** | 6.7 |
| | 210.0 - 223.0 | **779 764 026** | **779 762 026** | 9.2 |
| | 221.0 - 234.0 | **779 764 027** | | |
| | 234.0 - 247.0 | **779 764 028** | | |
| | 247.0 - 260.0 | **779 764 029** | | |
| * | 263.0 - 276.0 | **779 764 030** | **779 762 030** | 10.5 |
| | 277.0 - 290.0 | **779 764 031** | | |

| | OD nominal (mm) (mm) | PN (bar) | WP (bar) | OD min (mm) | OD max. (mm) | d (mm) | B (mm) | H (mm) |
|---|---|---|---|---|---|---|---|---|
| | 21.0 - 24.0 | 16 | 70 | 21.0 | 24.0 | 46 | 45 | 76 |
| | 25.0 - 29.0 | 16 | 70 | 25.0 | 29.0 | 46 | 45 | 76 |
| | 29.0 - 32.0 | 16 | 70 | 29.0 | 32.0 | 54 | 45 | 84 |
| | 33.0 - 36.0 | 16 | 70 | 33.0 | 36.0 | 54 | 45 | 84 |
| | 36.0 - 39.0 | 16 | 60 | 36.0 | 39.0 | 66 | 60 | 104 |
| | 39.0 - 43.0 | 16 | 50 | 39.0 | 43.0 | 66 | 60 | 104 |
| | 43.0 - 47.5 | 16 | 50 | 43.0 | 47.5 | 74 | 60 | 112 |
| | 47.5 - 52.5 | 16 | 50 | 47.5 | 52.5 | 74 | 60 | 112 |
| | 52.5 - 58.0 | 16 | 50 | 52.5 | 58.0 | 85 | 75 | 125 |

table continued on the next page




| | OD nominal (mm) (mm) | PN (bar) | WP (bar) | OD min (mm) | OD max. (mm) | d (mm) | B (mm) | H (mm) |
|---|---|---|---|---|---|---|---|---|
| | 58.0 - 64.0 | 16 | 40 | 58.0 | 64.0 | 85 | 75 | 125 |
| | 64.0 - 72.0 | 16 | 40 | 64.0 | 72.0 | 108 | 95 | 164 |
| | 72.0 - 80.0 | 16 | 40 | 72.0 | 80.0 | 108 | 95 | 164 |
| | 80.0 - 88.0 | 16 | 35 | 80.0 | 88.0 | 124 | 95 | 170 |
| | 88.0 - 96.0 | 16 | 35 | 88.0 | 96.0 | 124 | 95 | 170 |
| | 97.0 - 105.0 | 16 | 35 | 97.0 | 105.0 | 141 | 95 | 187 |
| | 104.0 - 112.0 | 16 | 35 | 104.0 | 112.0 | 141 | 95 | 187 |
| | 112.0 - 120.0 | 16 | 35 | 112.0 | 120.0 | 158 | 95 | 202 |
| | 122.0 - 130.0 | 16 | 32 | 122.0 | 130.0 | 158 | 95 | 202 |
| | 129.0 - 137.0 | 16 | 32 | 129.0 | 137.0 | 178 | 110 | 230 |
| | 137.0 - 145.0 | 16 | 32 | 137.0 | 145.0 | 186 | 110 | 238 |
| | 149.0 - 157.0 | 16 | 32 | 149.0 | 157.0 | 197 | 110 | 249 |
| | 157.0 - 165.0 | 16 | 32 | 157.0 | 165.0 | 205 | 110 | 255 |
| | 164.0 - 172.0 | 16 | 32 | 164.0 | 172.0 | 212 | 110 | 262 |
| | 185.0 - 198.0 | 16 | 25 | 185.0 | 198.0 | 236 | 138 | 262 |
| | 198.0 - 211.0 | 16 | 25 | 198.0 | 211.0 | 249 | 138 | 275 |
| | 210.0 - 223.0 | 16 | 25 | 210.0 | 223.0 | 261 | 140 | 287 |
| | 221.0 - 234.0 | 16 | 25 | 221.0 | 234.0 | 272 | 140 | 298 |
| | 234.0 - 247.0 | 16 | 25 | 234.0 | 247.0 | 285 | 140 | 311 |
| | 247.0 - 260.0 | 16 | 25 | 247.0 | 260.0 | 298 | 140 | 324 |
| * | 263.0 - 276.0 | 16 | 25 | 263.0 | 276.0 | 314 | 140 | 340 |
| | 277.0 - 290.0 | 16 | 25 | 277.0 | 290.0 | 328 | 142 | 354 |



## UNI-Grip S / SE coupling stainless steel 1.4571
## Tensile-resistant connection of metal and metal
## PN10 Solid bolt

**Model:**

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

**Temperature/Pressure:**

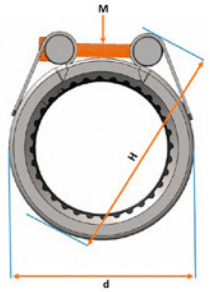
- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

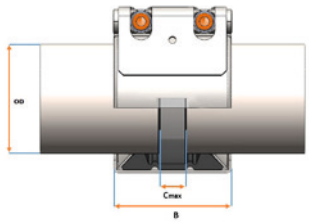
**Option:**

- Sealing type Viton (FKM) on request
- *Restricted working conditions for CuNiFe tubes with a wall thickness ≤ to 4 mm. For pipe dimensions with an asterix, these may only be loaded with max PN 2,5.

**Attention:**

- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**



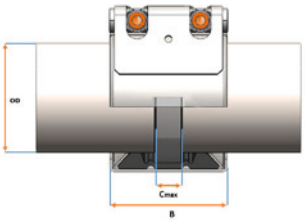




| | OD nominal (mm) (mm) | EPDM Code | NBR Code | Weight (kg) |
|---|---|---|---|---|
| | 64 - 72 | **779 724 411** | | |
| | 72 - 80 | **779 724 412** | **779 721 412** | 1.0 |
| | 80 - 88 | **779 724 413** | | |
| | 88 - 96 | **779 724 414** | **779 721 414** | 1.0 |
| | 97 - 105 | **779 724 415** | **779 721 415** | 1.1 |
| | 104 - 112 | **779 724 416** | **779 721 416** | 1.1 |
| | 112 - 120 | **779 724 417** | **779 721 417** | 1.2 |
| | 122 - 130 | **779 724 418** | **779 721 418** | 1.2 |
| | 129 - 137 | **779 724 419** | **779 721 419** | 2.1 |
| | 137 - 145 | **779 724 420** | **779 721 420** | 2.2 |
| | 149 - 157 | **779 724 421** | **779 721 421** | 2.3 |
| | 157 - 165 | **779 724 422** | **779 721 422** | 2.3 |
| | 164 - 172 | **779 724 423** | **779 721 423** | 2.4 |
| | 210 - 223 | **779 764 126** | **779 762 126** | 6.9 |
| | 221 - 234 | **779 764 127** | **779 762 127** | 7.0 |
| | 234 - 247 | | **779 762 128** | 7.2 |
| | 247 - 260 | | **779 762 129** | 7.5 |
| * | 263 - 276 | **779 764 130** | **779 762 130** | 7.7 |
| * | 277 - 290 | **779 764 131** | **779 762 131** | 7.9 |

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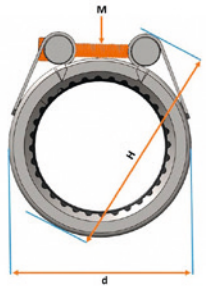


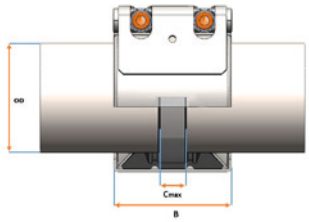

| | OD nominal (mm) (mm) | EPDM Code | NBR Code | Weight (kg) |
|---|---|---|---|---|
| * | 288 - 301 | | **779 762 132** | 11.1 |
| * | 301 - 314 | **779 764 133** | **779 762 133** | 11.5 |
| * | 315 - 328 | **779 764 134** | **779 762 134** | 11.8 |
| * | 327 - 340 | **779 764 135** | **779 762 135** | 12.1 |
| * | 340 - 353 | | **779 762 136** | 12.4 |
| * | 350 - 363 | | **779 762 137** | 12.7 |
| * | 361 - 374 | | **779 762 138** | 13.0 |




| | OD nominal (mm) (mm) | PN (bar) | WP (bar) | OD min (mm) | OD max. (mm) | d (mm) | B (mm) | H (mm) |
|---|---|---|---|---|---|---|---|---|
| | 64 - 72 | 10 | 16 | 64 | 72 | 108 | 95 | 164 |
| | 72 - 80 | 10 | 16 | 72 | 80 | 108 | 95 | 164 |
| | 80 - 88 | 10 | 16 | 80 | 88 | 124 | 95 | 170 |
| | 88 - 96 | 10 | 16 | 88 | 96 | 124 | 95 | 170 |
| | 97 - 105 | 10 | 16 | 97 | 105 | 141 | 95 | 187 |
| | 104 - 112 | 10 | 16 | 104 | 112 | 141 | 95 | 187 |
| | 112 - 120 | 10 | 16 | 112 | 120 | 158 | 95 | 202 |
| | 122 - 130 | 10 | 16 | 122 | 130 | 158 | 95 | 202 |
| | 129 - 137 | 10 | 16 | 129 | 137 | 178 | 110 | 230 |
| | 137 - 145 | 10 | 16 | 137 | 145 | 186 | 110 | 238 |
| | 149 - 157 | 10 | 16 | 149 | 157 | 197 | 110 | 249 |
| | 157 - 165 | 10 | 16 | 157 | 165 | 205 | 110 | 255 |
| | 164 - 172 | 10 | 16 | 164 | 172 | 212 | 110 | 262 |
| | 210 - 223 | 10 | 16 | 210 | 223 | 261 | 138 | 287 |
| | 221 - 234 | 10 | 16 | 221 | 234 | 272 | 138 | 298 |
| | 234 - 247 | 10 | 16 | 234 | 247 | 285 | 138 | 311 |
| | 247 - 260 | 10 | 16 | 247 | 260 | 298 | 138 | 324 |
| * | 263 - 276 | 10 | 16 | 263 | 276 | 314 | 138 | 340 |
| * | 277 - 290 | 10 | 16 | 277 | 290 | 328 | 140 | 354 |
| * | 288 - 301 | 10 | 16 | 288 | 301 | 339 | 140 | 365 |
| * | 301 - 314 | 10 | 16 | 301 | 314 | 352 | 140 | 378 |
| * | 315 - 328 | 10 | 16 | 315 | 328 | 366 | 140 | 392 |
| * | 327 - 340 | 10 | 16 | 327 | 340 | 378 | 140 | 404 |
| * | 340 - 353 | 10 | 16 | 340 | 353 | 391 | 140 | 417 |
| * | 350 - 363 | 10 | 16 | 350 | 363 | 401 | 140 | 427 |
| * | 361 - 374 | 10 | 16 | 361 | 374 | 412 | 142 | 438 |






## UNI-Grip S coupling stainless steel 1.4571
## Tensile-resistant connection of metal and metal
## PN6 Solid bolt

**Model:**

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

**Temperature/Pressure:**

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

**Option:**

- Sealing type Viton (FKM) on request
- *Restricted working conditions for CuNiFe tubes with a wall thickness ≤ to 4 mm. For pipe dimensions with an asterix, these may only be loaded with max PN 2,5.

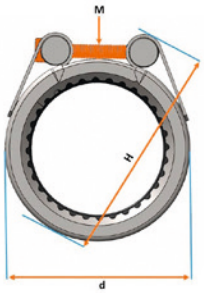
**Attention:**

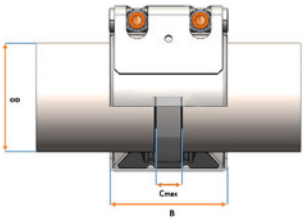
- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

| | OD nominal (mm) (mm) | EPDM Code | NBR Code | Weight (kg) |
|---|---|---|---|---|
| | 198 - 211 | **779 764 225** | | |
| | 210 - 223 | **779 764 226** | **779 762 226** | 5.7 |
| | 247 - 260 | **779 764 229** | | |
| * | 263 - 276 | **779 764 230** | **779 762 230** | 6.5 |
| * | 301 - 314 | **779 764 233** | | |
| * | 315 - 328 | **779 764 234** | | |
| * | 340 - 353 | | **779 762 236** | 8.9 |
| * | 400 - 413 | **779 764 241** | **779 762 241** | 13.9 |
| | 438 - 451 | **779 764 244** | **779 762 244** | 14.9 |
| | 503 - 516 | **779 764 249** | | |

| | OD nominal (mm) (mm) | PN (bar) | WP (bar) | OD min (mm) | OD max. (mm) | d (mm) | B (mm) | H (mm) |
|---|---|---|---|---|---|---|---|---|
| | 198 - 211 | 6 | 10 | 198 | 211 | 249 | 138 | 275 |
| | 210 - 223 | 6 | 10 | 210 | 223 | 261 | 138 | 287 |
| | 247 - 260 | 6 | 10 | 247 | 260 | 298 | 138 | 324 |
| * | 263 - 276 | 6 | 10 | 263 | 276 | 314 | 138 | 340 |
| * | 301 - 314 | 6 | 10 | 301 | 314 | 352 | 140 | 378 |
| * | 315 - 328 | 6 | 10 | 315 | 328 | 366 | 140 | 392 |
| * | 340 - 353 | 6 | 10 | 340 | 353 | 391 | 140 | 417 |
| * | 400 - 413 | 6 | 10 | 400 | 413 | 451 | 142 | 477 |
| | 438 - 451 | 6 | 10 | 438 | 451 | 489 | 138 | 515 |
| | 503 - 516 | 6 | 10 | 503 | 516 | 554 | 138 | 580 |






## UNI-Grip S coupling stainless steel 1.4571
## Tensile-resistant connection of metal and metal
## PN2,5 Solid bolt

**Model:**

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

**Temperature/Pressure:**

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

**Option:**

- Sealing type Viton (FKM) on request

**Attention:**

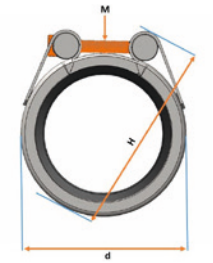
- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

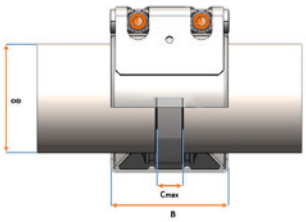
| OD nominal (mm) (mm) | EPDM Code | NBR Code | Weight (kg) |
|---|---|---|---|
| 301 - 314 | **779 764 333** | | |
| 315 - 328 | **779 764 334** | | |
| 327 - 340 | | **779 762 335** | 7.4 |
| 374 - 387 | | **779 762 339** | 9.5 |
| 400 - 413 | **779 764 341** | **779 762 341** | 9.9 |
| 438 - 451 | **779 764 344** | **779 762 344** | 10.5 |
| 503 - 516 | **779 764 349** | **779 762 349** | 11.6 |
| 600 - 613 | **779 764 355** | | |

| OD nominal (mm) (mm) | PN (bar) | WP (bar) | OD min (mm) | OD max. (mm) | d (mm) | B (mm) | H (mm) |
|---|---|---|---|---|---|---|---|
| 301 - 314 | 2.5 | 6 | 301 | 314 | 352 | 138 | 378 |
| 315 - 328 | 2.5 | 6 | 315 | 328 | 366 | 138 | 392 |
| 327 - 340 | 2.5 | 6 | 327 | 340 | 378 | 138 | 404 |
| 374 - 387 | 2.5 | 6 | 374 | 387 | 425 | 138 | 451 |
| 400 - 413 | 2.5 | 6 | 400 | 413 | 451 | 138 | 477 |
| 438 - 451 | 2.5 | 6 | 438 | 451 | 489 | 138 | 515 |
| 503 - 516 | 2.5 | 6 | 503 | 516 | 554 | 138 | 580 |
| 600 - 613 | 2.5 | 6 | 600 | 613 | 655 | 140 | 683 |

# UNI-Plastgrip






**UNI-Plastgrip S Coupling stainless steel 1.4571**
**Tensile-resistant connection of plastic and plastic**
**PN10 Solid bolt**

**Model:**

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

**Temperature/Pressure:**

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

**Option:**

- Sealing type Viton (FKM) on request

**Remark:**

**For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory**

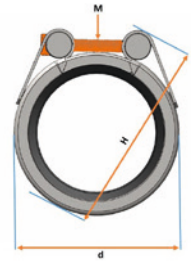
**Attention:**

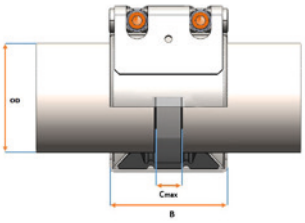
- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

| OD nominal (mm) (mm) | EPDM Code | NBR Code | Weight (kg) |
|---|---|---|---|
| 39 - 43 | **779 732 006** | **779 729 006** | 0.4 |
| 48 - 53 | **779 732 008** | **779 729 008** | 0.5 |
| 58 - 64 | **779 732 010** | **779 729 010** | 0.6 |
| 72 - 80 | **779 732 012** | **779 729 012** | 1.4 |
| 88 - 96 | **779 732 014** | **779 729 014** | 1.5 |
| 104 - 112 | **779 732 016** | **779 729 016** | 1.7 |
| 122 - 130 | **779 732 018** | **779 729 018** | 1.8 |
| 137 - 145 | **779 732 020** | **779 729 020** | 3.5 |
| 157 - 165 | **779 732 022** | **779 729 022** | 3.7 |
| 172 - 185 | **779 712 024** | | |
| 195 - 208 | **779 712 025** | **779 709 025** | 6.6 |
| 215 - 228 | **779 712 027** | **779 709 027** | 7.0 |
| 247 - 260 | **779 712 029** | | |
| 269 - 282 | **779 712 030** | | |
| 312 - 325 | **779 712 031** | | |
| 350 - 363 | **779 712 032** | | |

| OD nominal (mm) (mm) | PN (bar) | WP (bar) | OD min (mm) | OD max. (mm) | d (mm) | B (mm) | H (mm) |
|---|---|---|---|---|---|---|---|
| 39 - 43 | 10 | 16 | 39 | 43 | 66 | 60 | 104 |
| 48 - 53 | 10 | 16 | 48 | 53 | 74 | 60 | 112 |
| 58 - 64 | 10 | 16 | 58 | 64 | 85 | 75 | 125 |
| 72 - 80 | 10 | 16 | 72 | 80 | 108 | 95 | 164 |
| 88 - 96 | 10 | 16 | 88 | 96 | 124 | 95 | 170 |
| 104 - 112 | 10 | 16 | 104 | 112 | 141 | 95 | 187 |
| 122 - 130 | 10 | 16 | 122 | 130 | 158 | 95 | 202 |
| 137 - 145 | 10 | 16 | 137 | 145 | 186 | 110 | 238 |
| 157 - 165 | 10 | 16 | 157 | 165 | 205 | 110 | 255 |
| 172 - 185 | 10 | 16 | 172 | 185 | 223 | 138 | 259 |
| 195 - 208 | 10 | 16 | 195 | 208 | 246 | 138 | 272 |
| 215 - 228 | 10 | 16 | 215 | 228 | 272 | 138 | 298 |
| 247 - 260 | 10 | 16 | 247 | 260 | 298 | 138 | 324 |
| 269 - 282 | 10 | 16 | 269 | 282 | 320 | 142 | 346 |
| 312 - 325 | 10 | 16 | 312 | 325 | 363 | 146 | 389 |
| 350 - 363 | 10 | 16 | 350 | 363 | 401 | 146 | 427 |






## UNI-Plastgrip S/S2 coupling stainless steel 1.4571
## Tensile-resistant connection of plastic and plastic
## PN6 Solid bolt

**Model:**

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

**Temperature/Pressure:**

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

**Option:**

- Sealing type Viton (FKM) on request

**Remark:**

**For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory**

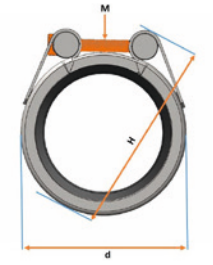
**Attention:**

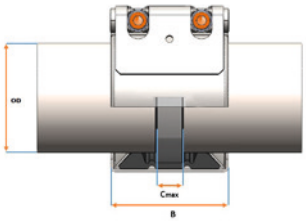
- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

| OD nominal (mm) (mm) | EPDM Code | NBR Code | Weight (kg) |
|---|---|---|---|
| 172 - 185 | | **779 739 024** | 5.0 |
| 195 - 208 | | **779 739 025** | 5.4 |
| 215 - 228 | **779 742 027** | **779 739 027** | 5.8 |
| 247 - 260 | | **779 739 029** | 6.5 |
| 269 - 282 | **779 742 030** | **779 739 030** | 6.9 |
| 312 - 325 | | **779 739 031** | 8.6 |
| 350 - 363 | **779 742 032** | **779 739 032** | 9.5 |
| 395 - 408 | **779 742 033** | **779 739 033** | 13.5 |
| 447 - 460 | | **779 739 034** | 17.5 |
| 502 - 515 | **779 742 035** | **779 739 035** | 19.3 |

| OD nominal (mm) (mm) | PN (bar) | WP (bar) | OD min (mm) | OD max. (mm) | d (mm) | B (mm) | H (mm) |
|---|---|---|---|---|---|---|---|
| 172 - 185 | 6 | 10 | 172 | 185 | 223 | 140 | 259 |
| 195 - 208 | 6 | 10 | 195 | 208 | 246 | 140 | 272 |
| 215 - 228 | 6 | 10 | 215 | 228 | 272 | 140 | 298 |
| 247 - 260 | 6 | 10 | 247 | 260 | 298 | 140 | 324 |
| 269 - 282 | 6 | 10 | 269 | 282 | 320 | 140 | 346 |
| 312 - 325 | 6 | 10 | 312 | 325 | 363 | 142 | 389 |
| 350 - 363 | 6 | 10 | 350 | 363 | 401 | 142 | 427 |
| 395 - 408 | 6 | 10 | 395 | 408 | 446 | 146 | 472 |
| 447 - 460 | 6 | 10 | 447 | 460 | 498 | 146 | 524 |
| 502 - 515 | 6 | 10 | 502 | 515 | 553 | 146 | 579 |






### UNI-Grip S/S2/S3/S4 coupling stainless steel 1.4571
### Tensile-resistant connection of plastic and plastic
### PN2,5 Solid bolt

**Model:**

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

**Temperature/Pressure:**

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

**Option:**

- Sealing type Viton (FKM) on request

**Remark:**

**For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory**

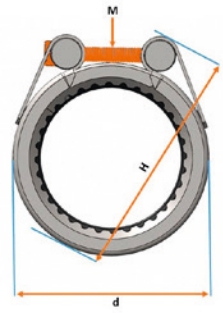
**Attention:**

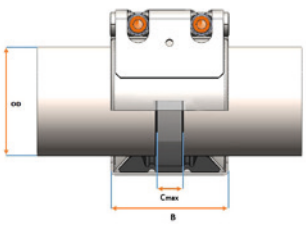
- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

| OD nominal (mm) (mm) | EPDM Code | PN (bar) | WP (bar) | OD min (mm) | OD max. (mm) | d (mm) | B (mm) | H (mm) |
|---|---|---|---|---|---|---|---|---|
| 395 - 408 | **779 752 033** | 2.5 | 6 | 395 | 408 | 446 | 142 | 472 |
| 557 - 570 | **779 752 036** | 2.5 | 6 | 557 | 570 | 608 | 146 | 634 |
| 627 - 640 | **779 752 037** | 2.5 | 6 | 627 | 640 | 678 | 146 | 704 |

# UNI-Combigrip






### UNI-Combigrip S coupling stainless steel 1.4571
### Tensile-resistant connection of metal and plastic
### PN10 Solid bolt

**Model:**

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

**Temperature/Pressure:**

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

**Option:**

- Sealing type Viton (FKM) on request

**Remark:**

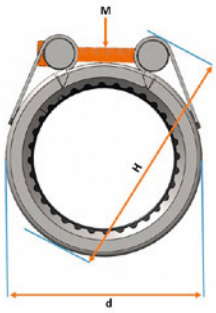
**For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory**

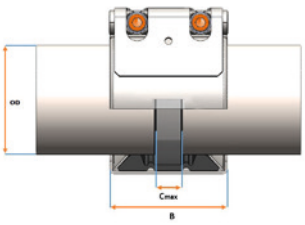
**Attention:**

- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

| OD nominal (mm) (mm) | EPDM Code | NBR Code | Weight (kg) |
|---|---|---|---|
| 39.0 - 43.0 | **779 740 006** | **779 737 006** | 0.4 |
| 47.5 - 52.5 | **779 740 008** | **779 737 008** | 0.5 |
| 58.0 - 64.0 | **779 740 010** | **779 737 010** | 0.6 |
| 72.0 - 80.0 | **779 740 012** | **779 737 012** | 1.4 |
| 88.0 - 96.0 | **779 740 014** | **779 737 014** | 1.5 |
| 104.0 - 112.0 | **779 740 016** | **779 737 016** | 1.7 |
| 108.0 - 115.0 | **779 740 017** | **779 737 017** | 1.7 |
| 122.0 - 130.0 | **779 740 018** | **779 737 018** | 1.8 |
| 137.0 - 145.0 | **779 740 020** | **779 737 020** | 3.5 |
| 157.0 - 165.0 | **779 740 022** | **779 737 022** | 3.7 |
| 195.0 - 208.0 | **779 724 925** | **779 721 925** | 6.8 |
| 215.0 - 228.0 | **779 724 926** | **779 721 926** | 7.3 |

table continued on the next page




| OD nominal (mm) (mm) | EPDM Code | NBR Code | Weight (kg) |
|---|---|---|---|
| 247.0 - 260.0 | **779 724 927** | | |
| 269.0 - 282.0 | **779 724 928** | **779 721 928** | 8.7 |
| 312.0 - 325.0 | **779 724 929** | | |
| 350.0 - 363.0 | | **779 721 930** | 12.2 |

| OD nominal (mm) (mm) | PN (bar) | WP (bar) | OD min (mm) | OD max. (mm) | d (mm) | B (mm) | H (mm) |
|---|---|---|---|---|---|---|---|
| 39.0 - 43.0 | 10 | 16 | 39 | 43 | 66 | 60 | 104 |
| 47.5 - 52.5 | 10 | 16 | 48 | 53 | 74 | 60 | 112 |
| 58.0 - 64.0 | 10 | 16 | 58 | 64 | 85 | 75 | 125 |
| 72.0 - 80.0 | 10 | 16 | 72 | 80 | 108 | 95 | 164 |
| 88.0 - 96.0 | 10 | 16 | 88 | 96 | 124 | 95 | 170 |
| 104.0 - 112.0 | 10 | 16 | 104 | 112 | 141 | 95 | 187 |
| 108.0 - 115.0 | 10 | 16 | 108 | 115 | 141 | 95 | 187 |
| 122.0 - 130.0 | 10 | 16 | 122 | 130 | 158 | 95 | 202 |
| 137.0 - 145.0 | 10 | 16 | 137 | 145 | 186 | 110 | 238 |
| 157.0 - 165.0 | 10 | 16 | 157 | 165 | 205 | 110 | 255 |
| 195.0 - 208.0 | 10 | 16 | 195 | 208 | 246 | 142 | 272 |
| 215.0 - 228.0 | 10 | 16 | 215 | 228 | 266 | 142 | 292 |
| 247.0 - 260.0 | 10 | 16 | 247 | 260 | 298 | 142 | 324 |
| 269.0 - 282.0 | 10 | 16 | 269 | 282 | 320 | 142 | 346 |
| 312.0 - 325.0 | 10 | 16 | 312 | 325 | 363 | 142 | 389 |
| 350.0 - 363.0 | 10 | 16 | 350 | 363 | 401 | 142 | 427 |



## UNI-Combigrip S/S2 coupling stainless steel 1.4571
## Tensile-resistant connection of metal and plastic
## PN6 Solid bolt

**Model:**

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

**Temperature/Pressure:**

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

**Option:**

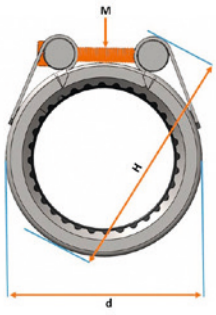
- Sealing type Viton (FKM) on request

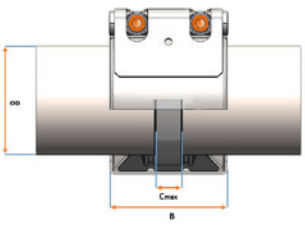
**Remark:**

**For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory**

**Attention:**

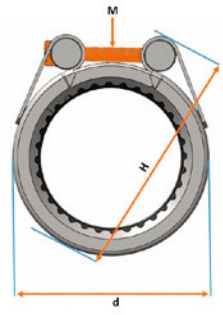
- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

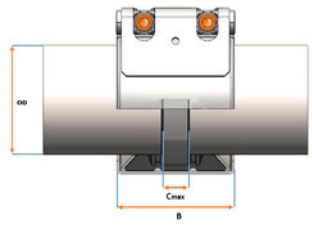



| OD nominal (mm) (mm) | EPDM Code | Weight (kg) | PN (bar) | WP (bar) | OD min (mm) | OD max. (mm) | d (mm) | B (mm) | H (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 247 - 260 | **779 750 927** | 6.5 | 6 | 10 | 247 | 260 | 298 | 140 | 324 |
| 312 - 325 | **779 750 929** | 8.6 | 6 | 10 | 312 | 325 | 363 | 142 | 389 |






### UNI-Combigrip S/S2/S3/S4 coupling stainless steel 1.4571
### Tensile-resistant connection of metal and plastic
### PN2,5 Solid bolt

**Model:**

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

**Temperature/Pressure:**

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

**Option:**

- Sealing type Viton (FKM) on request

**Remark:**

**For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory**

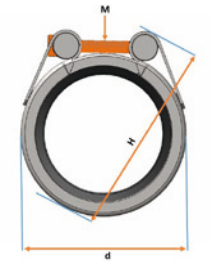
**Attention:**

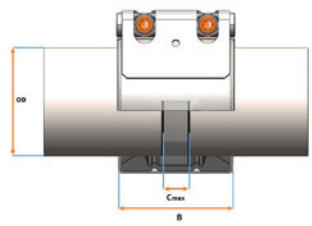
- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

| OD nominal (mm) (mm) | EPDM Code | PN (bar) | WP (bar) | OD min (mm) | OD max. (mm) | d (mm) | B (mm) | H (mm) |
|---|---|---|---|---|---|---|---|---|
| 312 - 325 | **779 760 929** | 2.5 | 6 | 312 | 325 | 363 | 140 | 389 |
| 350 - 363 | **779 760 930** | 2.5 | 6 | 350 | 363 | 401 | 140 | 427 |
| 395 - 408 | **779 760 931** | 2.5 | 6 | 395 | 408 | 446 | 142 | 472 |
| 447 - 460 | **779 760 932** | 2.5 | 6 | 447 | 460 | 498 | 142 | 524 |
| 502 - 515 | **779 760 933** | 2.5 | 6 | 502 | 515 | 553 | 142 | 579 |
| 557 - 570 | **779 760 934** | 2.5 | 6 | 557 | 570 | 608 | 146 | 634 |
| 627 - 640 | **779 760 935** | 2.5 | 6 | 627 | 640 | 678 | 146 | 704 |

# UNI-Flex






### UNI-Flex S coupling stainless steel 1.4571
### Non-tensile connection of metal and metal, plastic and plastic, metal and plastic
### PN16 Solid bolt

**Model:**

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

**Temperature/Pressure:**

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

**Option:**

- Sealing type Viton (FKM) on request

**Remark:**

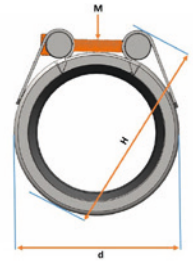
**For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory**

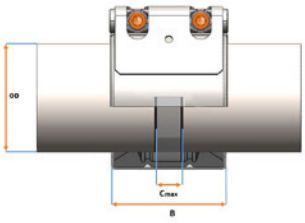
**Attention:**

- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

| OD nominal (mm) (mm) | EPDM Code | NBR Code | Weight (kg) |
|---|---|---|---|
| 21.0 - 24.0 | **779 812 001** | **779 809 001** | 0.2 |
| 25.0 - 29.0 | **779 812 002** | **779 809 002** | 0.2 |
| 29.0 - 32.0 | **779 812 003** | **779 809 003** | 0.2 |
| 33.0 - 36.0 | **779 812 004** | **779 809 004** | 0.2 |
| 36.0 - 39.0 | **779 812 005** | | |
| 39.0 - 43.0 | **779 812 006** | **779 809 006** | 0.4 |
| 43.0 - 47.5 | **779 812 007** | **779 809 007** | 0.4 |
| 47.5 - 52.5 | **779 812 008** | **779 809 008** | 0.4 |
| 52.5 - 58.0 | **779 812 009** | **779 809 009** | 0.6 |
| 58.0 - 64.0 | **779 812 010** | **779 809 010** | 0.6 |
| 64.0 - 72.0 | **779 812 011** | | |
| 72.0 - 80.0 | **779 812 012** | **779 809 012** | 1.0 |
| 80.0 - 88.0 | **779 812 013** | **779 809 013** | 1.0 |

table continued on the next page

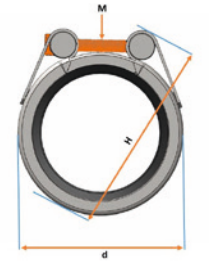


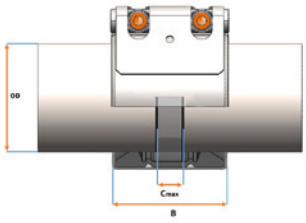




| OD nominal (mm) (mm) | EPDM Code | NBR Code | Weight (kg) |
|---|---|---|---|
| 88.0 - 96.0 | **779 812 014** | **779 809 014** | 1.0 |
| 97.0 - 105.0 | **779 812 015** | **779 809 015** | 1.1 |
| 104.0 - 112.0 | **779 812 016** | **779 809 016** | 1.1 |
| 112.0 - 120.0 | **779 812 017** | **779 809 017** | 1.2 |
| 122.0 - 130.0 | **779 812 018** | **779 809 018** | 1.2 |
| 129.0 - 137.0 | **779 812 019** | | |
| 137.0 - 145.0 | **779 812 020** | **779 809 020** | 2.2 |
| 149.0 - 157.0 | **779 812 021** | | |
| 157.0 - 165.0 | **779 812 022** | **779 809 022** | 2.3 |
| 164.0 - 172.0 | **779 812 023** | **779 809 023** | 2.4 |
| 198.0 - 211.0 | **779 864 025** | **779 862 025** | 5.2 |
| 210.0 - 223.0 | **779 864 026** | **779 862 026** | 5.3 |
| 221.0 - 234.0 | **779 864 027** | **779 862 027** | 5.5 |
| 263.0 - 276.0 | **779 864 030** | | |
| 277.0 - 290.0 | **779 864 031** | | |
| 315.0 - 328.0 | **779 864 034** | | |
| 340.0 - 353.0 | **779 864 036** | | |
| 350.0 - 363.0 | **779 864 037** | | |
| 451.0 - 464.0 | **779 864 045** | | |
| 488.0 - 501.0 | | **779 862 048** | 15.8 |
| 600.0 - 613.0 | **779 864 055** | | |
| 700.0 - 713.0 | **779 864 061** | | |
| 732.0 - 745.0 | **779 864 063** | | |

| OD nominal (mm) (mm) | PN (bar) | WP (bar) | OD min (mm) | OD max. (mm) | d (mm) | B (mm) | H (mm) |
|---|---|---|---|---|---|---|---|
| 21.0 - 24.0 | 16 | 25 | 21 | 24 | 46 | 45 | 76 |
| 25.0 - 29.0 | 16 | 25 | 25 | 29 | 46 | 45 | 76 |
| 29.0 - 32.0 | 16 | 25 | 29 | 32 | 54 | 45 | 84 |
| 33.0 - 36.0 | 16 | 25 | 33 | 36 | 54 | 45 | 84 |
| 36.0 - 39.0 | 16 | 25 | 36 | 39 | 66 | 60 | 104 |
| 39.0 - 43.0 | 16 | 25 | 39 | 43 | 66 | 60 | 104 |
| 43.0 - 47.5 | 16 | 25 | 43 | 48 | 74 | 60 | 112 |
| 47.5 - 52.5 | 16 | 25 | 48 | 53 | 74 | 60 | 112 |
| 52.5 - 58.0 | 16 | 25 | 53 | 58 | 85 | 75 | 125 |
| 58.0 - 64.0 | 16 | 25 | 58 | 64 | 85 | 75 | 125 |
| 64.0 - 72.0 | 16 | 25 | 64 | 72 | 108 | 95 | 164 |
| 72.0 - 80.0 | 16 | 25 | 72 | 80 | 108 | 95 | 164 |
| 80.0 - 88.0 | 16 | 25 | 80 | 88 | 124 | 95 | 170 |
| 88.0 - 96.0 | 16 | 25 | 88 | 96 | 124 | 95 | 170 |
| 97.0 - 105.0 | 16 | 25 | 97 | 105 | 141 | 95 | 187 |
| 104.0 - 112.0 | 16 | 25 | 104 | 112 | 141 | 95 | 187 |
| 112.0 - 120.0 | 16 | 25 | 112 | 120 | 158 | 95 | 202 |
| 122.0 - 130.0 | 16 | 25 | 122 | 130 | 158 | 95 | 202 |
| 129.0 - 137.0 | 16 | 25 | 129 | 137 | 178 | 110 | 230 |
| 137.0 - 145.0 | 16 | 25 | 137 | 145 | 186 | 110 | 238 |
| 149.0 - 157.0 | 16 | 25 | 149 | 157 | 197 | 110 | 249 |
| 157.0 - 165.0 | 16 | 25 | 157 | 165 | 205 | 110 | 255 |
| 164.0 - 172.0 | 16 | 25 | 164 | 172 | 212 | 110 | 262 |
| 198.0 - 211.0 | 16 | 25 | 198 | 211 | 249 | 140 | 275 |
| 210.0 - 223.0 | 16 | 25 | 210 | 223 | 261 | 140 | 287 |
| 221.0 - 234.0 | 16 | 25 | 221 | 234 | 272 | 140 | 298 |
| 263.0 - 276.0 | 16 | 25 | 263 | 276 | 314 | 140 | 340 |
| 277.0 - 290.0 | 16 | 25 | 277 | 290 | 328 | 142 | 354 |
| 315.0 - 328.0 | 16 | 25 | 315 | 328 | 366 | 142 | 392 |
| 340.0 - 353.0 | 16 | 25 | 340 | 353 | 391 | 142 | 417 |
| 350.0 - 363.0 | 16 | 25 | 350 | 363 | 401 | 142 | 427 |
| 451.0 - 464.0 | 16 | 25 | 451 | 464 | 502 | 146 | 528 |

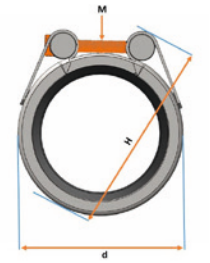
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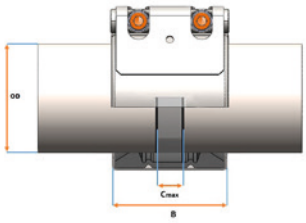




| OD nominal (mm) (mm) | PN (bar) | WP (bar) | OD min (mm) | OD max. (mm) | d (mm) | B (mm) | H (mm) |
|---|---|---|---|---|---|---|---|
| 488.0 - 501.0 | 16 | 25 | 488 | 501 | 539 | 146 | 565 |
| 600.0 - 613.0 | 16 | 25 | 600 | 613 | 655 | 146 | 683 |
| 700.0 - 713.0 | 16 | 25 | 700 | 713 | 755 | 146 | 783 |
| 732.0 - 745.0 | 16 | 25 | 732 | 745 | 787 | 146 | 815 |







## UNI-Flex S coupling stainless steel 1.4571
## Non-tensile connection of metal and metal, plastic and plastic, metal and plastic
## PN10 Solid bolt

**Model:**

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

**Temperature/Pressure:**

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

**Option:**

- Sealing type Viton (FKM) on request

**Remark:**

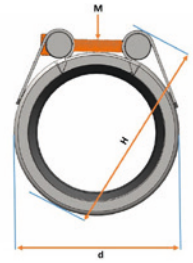
**For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory**

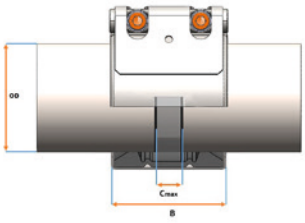
**Attention:**

- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

| OD nominal (mm) (mm) | EPDM Code | NBR Code | Weight (kg) |
|---|---|---|---|
| 185 - 198 | **779 864 124** | | |
| 198 - 211 | **779 864 125** | | |
| 210 - 223 | **779 864 126** | | |
| 221 - 234 | **779 864 127** | | |
| 234 - 247 | **779 864 128** | | |
| 247 - 260 | **779 864 129** | | |
| 263 - 276 | **779 864 130** | **779 862 130** | 4.6 |
| 277 - 290 | **779 864 131** | | |
| 288 - 301 | **779 864 132** | | |
| 301 - 314 | **779 864 133** | | |
| 315 - 328 | **779 864 134** | **779 862 134** | 6.6 |
| 327 - 340 | **779 864 135** | | |
| 340 - 353 | **779 864 136** | | |
| 350 - 363 | **779 864 137** | | |
| 361 - 374 | **779 864 138** | | |
| 374 - 387 | **779 864 139** | | |
| 387 - 400 | **779 864 140** | | |
| 400 - 413 | **779 864 141** | | |
| 412 - 425 | **779 864 142** | | |
| 422 - 435 | **779 864 143** | | |
| 438 - 451 | **779 864 144** | | |
| 451 - 464 | **779 864 145** | | |
| 460 - 473 | **779 864 146** | | |
| 476 - 489 | **779 864 147** | | |
| 488 - 501 | **779 864 148** | | |

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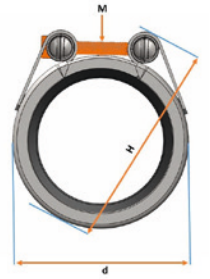



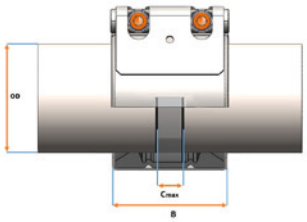

| OD nominal (mm) (mm) | EPDM Code | NBR Code | Weight (kg) |
|---|---|---|---|
| 503 - 516 | **779 864 149** | **779 862 149** | 11.2 |
| 520 - 533 | **779 864 150** | | |
| 531 - 544 | **779 864 151** | **779 862 151** | 11.7 |
| 546 - 559 | **779 864 152** | | |
| 557 - 570 | **779 864 153** | | |
| 571 - 584 | **779 864 154** | | |
| 600 - 613 | **779 864 155** | | |
| 610 - 623 | **779 864 156** | | |
| 628 - 641 | **779 864 157** | | |
| 648 - 661 | **779 864 158** | | |
| 676 - 689 | **779 864 159** | | |
| 688 - 701 | **779 864 160** | | |
| 700 - 713 | **779 864 161** | | |
| 717 - 730 | **779 864 162** | **779 862 162** | 14.7 |
| 732 - 745 | **779 864 163** | | |

| OD nominal (mm) (mm) | PN (bar) | WP (bar) | OD min (mm) | OD max. (mm) | d (mm) | B (mm) | H (mm) |
|---|---|---|---|---|---|---|---|
| 185 - 198 | 10 | 16 | 185 | 198 | 236 | 138 | 262 |
| 198 - 211 | 10 | 16 | 198 | 211 | 249 | 138 | 275 |
| 210 - 223 | 10 | 16 | 210 | 223 | 261 | 138 | 287 |
| 221 - 234 | 10 | 16 | 221 | 234 | 272 | 138 | 298 |
| 234 - 247 | 10 | 16 | 234 | 247 | 285 | 138 | 311 |
| 247 - 260 | 10 | 16 | 247 | 260 | 298 | 138 | 324 |
| 263 - 276 | 10 | 16 | 263 | 276 | 314 | 138 | 340 |
| 277 - 290 | 10 | 16 | 277 | 290 | 328 | 140 | 354 |
| 288 - 301 | 10 | 16 | 288 | 301 | 339 | 140 | 365 |
| 301 - 314 | 10 | 16 | 301 | 314 | 352 | 140 | 378 |
| 315 - 328 | 10 | 16 | 315 | 328 | 366 | 140 | 392 |
| 327 - 340 | 10 | 16 | 327 | 340 | 378 | 140 | 404 |
| 340 - 353 | 10 | 16 | 340 | 353 | 391 | 140 | 417 |
| 350 - 363 | 10 | 16 | 350 | 363 | 401 | 140 | 427 |
| 361 - 374 | 10 | 16 | 361 | 374 | 412 | 142 | 438 |
| 374 - 387 | 10 | 16 | 374 | 387 | 425 | 142 | 451 |
| 387 - 400 | 10 | 16 | 387 | 400 | 438 | 142 | 464 |
| 400 - 413 | 10 | 16 | 400 | 413 | 451 | 142 | 477 |
| 412 - 425 | 10 | 16 | 412 | 425 | 463 | 142 | 489 |
| 422 - 435 | 10 | 16 | 422 | 435 | 473 | 142 | 499 |
| 438 - 451 | 10 | 16 | 438 | 451 | 489 | 142 | 515 |
| 451 - 464 | 10 | 16 | 451 | 464 | 502 | 142 | 528 |
| 460 - 473 | 10 | 16 | 460 | 473 | 511 | 142 | 537 |
| 476 - 489 | 10 | 16 | 476 | 489 | 527 | 142 | 553 |
| 488 - 501 | 10 | 16 | 488 | 501 | 539 | 142 | 565 |
| 503 - 516 | 10 | 16 | 503 | 516 | 554 | 142 | 580 |
| 520 - 533 | 10 | 16 | 520 | 533 | 575 | 142 | 603 |
| 531 - 544 | 10 | 16 | 531 | 544 | 586 | 142 | 614 |
| 546 - 559 | 10 | 16 | 546 | 559 | 601 | 142 | 629 |
| 557 - 570 | 10 | 16 | 557 | 570 | 612 | 142 | 640 |
| 571 - 584 | 10 | 16 | 571 | 584 | 626 | 142 | 654 |
| 600 - 613 | 10 | 16 | 600 | 613 | 655 | 142 | 683 |
| 610 - 623 | 10 | 16 | 610 | 623 | 665 | 142 | 693 |
| 628 - 641 | 10 | 16 | 628 | 641 | 683 | 142 | 711 |
| 648 - 661 | 10 | 16 | 648 | 661 | 703 | 142 | 731 |
| 676 - 689 | 10 | 16 | 676 | 689 | 731 | 142 | 759 |
| 688 - 701 | 10 | 16 | 688 | 701 | 743 | 142 | 771 |
| 700 - 713 | 10 | 16 | 700 | 713 | 755 | 142 | 783 |
| 717 - 730 | 10 | 16 | 717 | 730 | 772 | 142 | 800 |
| 732 - 745 | 10 | 16 | 732 | 745 | 787 | 142 | 815 |

# UNI-Rep






**UNI-Rep S repair coupling stainless steel 1.4571**
**Non-tensile connection of metal and metal, plastic and plastic, metal and plastic**
**PN16 Solid bolt**

**Model:**

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

**Temperature/Pressure:**

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

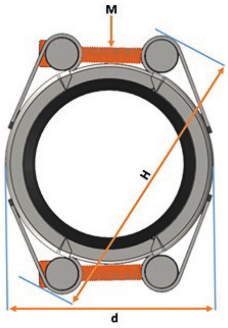
**Attention:**

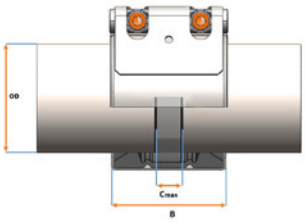
- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

| OD nominal (mm) (mm) | EPDM Code | NBR Code | Weight (kg) |
|---|---|---|---|
| 36.0 - 39.0 | **779 912 005** | **779 909 005** | 0.4 |
| 39.0 - 43.0 | **779 912 006** | **779 909 006** | 0.4 |
| 43.0 - 47.5 | **779 912 007** | **779 909 007** | 0.4 |
| 47.5 - 52.5 | **779 912 008** | **779 909 008** | 0.4 |
| 52.5 - 58.0 | **779 912 009** | **779 909 009** | 0.6 |
| 58.0 - 64.0 | **779 912 010** | **779 909 010** | 0.6 |
| 64.0 - 72.0 | **779 912 011** | **779 909 011** | 1.0 |
| 72.0 - 80.0 | **779 912 012** | **779 909 012** | 1.0 |
| 80.0 - 88.0 | **779 912 013** | **779 909 013** | 1.0 |
| 88.0 - 96.0 | **779 912 014** | **779 909 014** | 1.0 |
| 97.0 - 105.0 | **779 912 015** | **779 909 015** | 1.1 |
| 104.0 - 112.0 | **779 912 016** | **779 909 016** | 1.1 |
| 112.0 - 120.0 | **779 912 017** | **779 909 017** | 1.2 |
| 122.0 - 130.0 | **779 912 018** | **779 909 018** | 1.2 |
| 129.0 - 137.0 | **779 912 019** | | |
| 137.0 - 145.0 | **779 912 020** | **779 909 020** | 2.2 |
| 149.0 - 157.0 | **779 912 021** | **779 909 021** | 2.3 |
| 157.0 - 165.0 | **779 912 022** | **779 909 022** | 2.3 |
| 164.0 - 172.0 | **779 912 023** | **779 909 023** | 2.4 |

| OD nominal (mm) (mm) | PN (bar) | WP (bar) | OD min (mm) | OD max. (mm) | d (mm) | B (mm) | H (mm) |
|---|---|---|---|---|---|---|---|
| 36.0 - 39.0 | 16 | 60 | 36.0 | 39.0 | 66 | 60 | 104 |
| 39.0 - 43.0 | 16 | 50 | 39.0 | 43.0 | 66 | 60 | 104 |
| 43.0 - 47.5 | 16 | 50 | 43.0 | 47.5 | 74 | 60 | 112 |
| 47.5 - 52.5 | 16 | 50 | 47.5 | 52.5 | 74 | 60 | 112 |
| 52.5 - 58.0 | 16 | 50 | 52.5 | 58.0 | 85 | 75 | 125 |
| 58.0 - 64.0 | 16 | 40 | 58.0 | 64.0 | 85 | 75 | 125 |
| 64.0 - 72.0 | 16 | 40 | 64.0 | 72.0 | 108 | 95 | 164 |
| 72.0 - 80.0 | 16 | 40 | 72.0 | 80.0 | 108 | 95 | 164 |
| 80.0 - 88.0 | 16 | 35 | 80.0 | 88.0 | 124 | 95 | 170 |
| 88.0 - 96.0 | 16 | 35 | 88.0 | 96.0 | 124 | 95 | 170 |
| 97.0 - 105.0 | 16 | 35 | 97.0 | 105.0 | 141 | 95 | 187 |
| 104.0 - 112.0 | 16 | 35 | 104.0 | 112.0 | 141 | 95 | 187 |
| 112.0 - 120.0 | 16 | 35 | 112.0 | 120.0 | 158 | 95 | 202 |
| 122.0 - 130.0 | 16 | 32 | 122.0 | 130.0 | 158 | 95 | 202 |
| 129.0 - 137.0 | 16 | 32 | 129.0 | 137.0 | 178 | 110 | 230 |
| 137.0 - 145.0 | 16 | 32 | 137.0 | 145.0 | 186 | 110 | 238 |
| 149.0 - 157.0 | 16 | 32 | 149.0 | 157.0 | 197 | 110 | 249 |
| 157.0 - 165.0 | 16 | 32 | 157.0 | 165.0 | 205 | 110 | 255 |
| 164.0 - 172.0 | 16 | 32 | 164.0 | 172.0 | 212 | 110 | 262 |






## UNI-Rep S2 repair coupling stainless steel 1.4571
## Non-tensile connection of metal and metal, plastic and plastic, metal and plastic
## PN16 Solid bolt

**Model:**

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

**Temperature/Pressure:**

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

**Option:**

- Sealing type Viton (FKM) on request

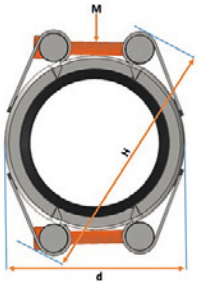
**Attention:**

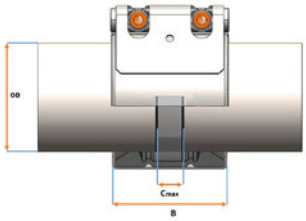
- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

| OD nominal (mm) (mm) | EPDM Code | NBR Code | Weight (kg) |
|---|---|---|---|
| 172 - 198 | **779 964 024** | **779 962 024** | 7.8 |
| 197 - 223 | **779 964 026** | **779 962 026** | 8.1 |
| 221 - 247 | **779 964 028** | **779 962 028** | 8.4 |
| 250 - 276 | | **779 962 030** | 8.7 |
| 275 - 301 | **779 964 032** | | |
| 302 - 328 | **779 964 034** | | |
| 348 - 374 | **779 964 038** | | |
| 374 - 400 | **779 964 040** | | |
| 425 - 451 | **779 964 044** | | |
| 447 - 473 | **779 964 046** | | |
| 475 - 501 | **779 964 048** | | |
| 490 - 516 | **779 964 049** | **779 962 049** | 19.7 |
| 507 - 533 | **779 964 050** | | |
| 558 - 584 | **779 964 054** | | |
| 587 - 613 | **779 964 055** | | |
| 704 - 730 | **779 964 062** | **779 962 062** | 25.0 |

| OD nominal (mm) (mm) | PN (bar) | WP (bar) | OD min (mm) | OD max. (mm) | d (mm) | B (mm) | H (mm) |
|---|---|---|---|---|---|---|---|
| 172 - 198 | 16 | 25 | 172 | 198 | 236 | 140 | 262 |
| 197 - 223 | 16 | 25 | 197 | 223 | 261 | 140 | 287 |
| 221 - 247 | 16 | 25 | 221 | 247 | 285 | 140 | 311 |
| 250 - 276 | 16 | 25 | 250 | 276 | 314 | 140 | 340 |
| 275 - 301 | 16 | 25 | 275 | 301 | 339 | 142 | 365 |
| 302 - 328 | 16 | 25 | 302 | 328 | 366 | 142 | 392 |
| 348 - 374 | 16 | 25 | 348 | 374 | 412 | 146 | 438 |
| 374 - 400 | 16 | 25 | 374 | 400 | 438 | 146 | 464 |
| 425 - 451 | 16 | 25 | 425 | 451 | 489 | 146 | 515 |
| 447 - 473 | 16 | 25 | 447 | 473 | 511 | 146 | 537 |
| 475 - 501 | 16 | 25 | 475 | 501 | 539 | 146 | 565 |
| 490 - 516 | 16 | 25 | 490 | 516 | 554 | 146 | 580 |
| 507 - 533 | 16 | 25 | 523 | 533 | 575 | 146 | 603 |
| 558 - 584 | 16 | 25 | 558 | 584 | 626 | 146 | 654 |
| 587 - 613 | 16 | 25 | 587 | 613 | 655 | 146 | 683 |
| 704 - 730 | 16 | 25 | 704 | 730 | 772 | 146 | 800 |






## UNI-Rep S2 repair coupling stainless steel 1.4571
## Non-tensile connection of metal and metal, plastic and plastic, metal and plastic
## PN10 Solid bolt

**Model:**

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

**Temperature/Pressure:**

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

**Option:**

- Sealing type Viton (FKM) on request

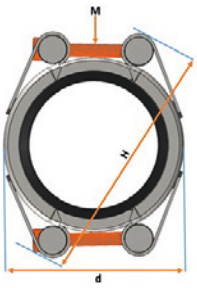
**Attention:**

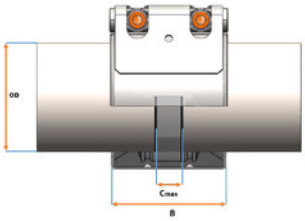
- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

| OD nominal (mm) (mm) | EPDM Code | NBR Code | Weight (kg) |
|---|---|---|---|
| 172 - 198 | | **779 962 124** | 6.4 |
| 197 - 223 | | **779 962 126** | 6.6 |
| 221 - 247 | **779 964 128** | **779 962 128** | 6.8 |
| 250 - 276 | **779 964 130** | **779 962 130** | 7.0 |
| 275 - 301 | | **779 962 132** | 9.0 |
| 302 - 328 | | **779 962 134** | 9.4 |
| 327 - 353 | | **779 962 136** | 9.7 |
| 348 - 374 | **779 964 138** | **779 962 138** | 12.0 |
| 374 - 400 | | **779 962 140** | 12.4 |
| 399 - 425 | **779 964 142** | **779 962 142** | 12.8 |
| 425 - 451 | | **779 962 144** | 13.2 |
| 447 - 473 | | **779 962 146** | 13.6 |
| 475 - 501 | | **779 962 148** | 14.1 |
| 490 - 516 | **779 964 149** | **779 962 149** | 14.3 |
| 507 - 533 | | **779 962 150** | 14.6 |
| 533 - 559 | | **779 962 152** | 15.0 |
| 558 - 584 | | **779 962 154** | 15.4 |
| 587 - 613 | | **779 962 155** | 15.9 |
| 615 - 641 | | **779 962 157** | 16.3 |
| 635 - 661 | | **779 962 158** | 16.6 |
| 663 - 689 | | **779 962 159** | 17.1 |
| 687 - 713 | | **779 962 161** | 17.5 |
| 704 - 730 | | **779 962 162** | 17.7 |
| 719 - 745 | | **779 962 163** | 18.0 |

| OD nominal (mm) (mm) | PN (bar) | WP (bar) | OD min (mm) | OD max. (mm) | d (mm) | B (mm) | H (mm) |
|---|---|---|---|---|---|---|---|
| 172 - 198 | 10 | 16 | 172 | 198 | 236 | 138 | 262 |
| 197 - 223 | 10 | 16 | 197 | 223 | 261 | 138 | 287 |
| 221 - 247 | 10 | 16 | 221 | 247 | 285 | 138 | 311 |
| 250 - 276 | 10 | 16 | 250 | 276 | 314 | 138 | 340 |
| 275 - 301 | 10 | 16 | 275 | 301 | 339 | 140 | 365 |
| 302 - 328 | 10 | 16 | 302 | 328 | 366 | 140 | 392 |
| 327 - 353 | 10 | 16 | 327 | 353 | 391 | 140 | 417 |
| 348 - 374 | 10 | 16 | 348 | 374 | 412 | 142 | 438 |
| 374 - 400 | 10 | 16 | 374 | 400 | 438 | 142 | 464 |
| 399 - 425 | 10 | 16 | 399 | 425 | 463 | 142 | 489 |
| 425 - 451 | 10 | 16 | 425 | 451 | 489 | 142 | 515 |
| 447 - 473 | 10 | 16 | 447 | 473 | 511 | 142 | 537 |
| 475 - 501 | 10 | 16 | 475 | 501 | 539 | 142 | 565 |
| 490 - 516 | 10 | 16 | 490 | 516 | 554 | 142 | 580 |
| 507 - 533 | 10 | 16 | 507 | 533 | 575 | 142 | 603 |
| 533 - 559 | 10 | 16 | 533 | 559 | 601 | 142 | 629 |
| 558 - 584 | 10 | 16 | 558 | 584 | 626 | 142 | 654 |
| 587 - 613 | 10 | 16 | 587 | 613 | 655 | 142 | 683 |
| 615 - 641 | 10 | 16 | 615 | 641 | 683 | 142 | 711 |
| 635 - 661 | 10 | 16 | 635 | 661 | 703 | 142 | 731 |

table continued on the next page




| OD nominal (mm) (mm) | PN (bar) | WP (bar) | OD min (mm) | OD max. (mm) | d (mm) | B (mm) | H (mm) |
|---|---|---|---|---|---|---|---|
| 663 - 689 | 10 | 16 | 663 | 689 | 731 | 142 | 759 |
| 687 - 713 | 10 | 16 | 687 | 713 | 755 | 142 | 783 |
| 704 - 730 | 10 | 16 | 704 | 730 | 772 | 142 | 800 |
| 719 - 745 | 10 | 16 | 719 | 745 | 787 | 142 | 815 |

# Insert stiffener



### Insert stiffener Economy

**Model:**

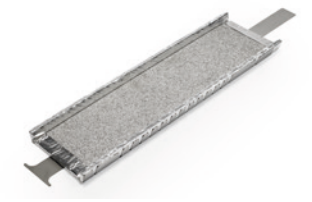
- Suitable for PE and PVC pipes
- Stainless steel A2 quality (AISI 304), optional A4 quality (AISI 316)
- For pipe sizes > d355 use an insert stiffener with wedge
- Other pipe sizes < d355 available on request

| d x e (mm) | SDR | L (mm) | Code | Weight (kg) |
|---|---|---|---|---|
| 40 x 3,7 | 11.0 | 100 | **709 026 391** | 0.100 |
| 40 x 2,3 | 17.6 / 17.0 | 100 | **709 026 392** | 0.100 |
| 50 x 2.4 | 21 | 175 | **709 026 207** | 0.130 |
| 50 x 4,6 | 11.0 | 100 | **709 026 203** | 0.130 |
| 50 x 2,9 | 17.6 / 17.0 | 100 | **709 026 206** | 0.130 |
| 63 x 5,8 | 11.0 | 100 | **709 026 211** | 0.160 |
| 63 x 3,6 | 17.6 / 17.0 | 100 | **709 026 214** | 0.160 |
| 63 x 2,0 | 33 | 100 | **709 026 217** | 0.160 |
| 63 x 1,5 | 41 | 100 | **709 026 415** | 0.160 |
| 75 x 6,8 | 11.0 | 100 | **709 026 220** | 0.190 |
| 75 x 4,3 | 17.6 / 17.0 | 100 | **709 026 223** | 0.190 |
| 75 x 1,9 | 41 | 100 | **709 026 227** | 0.190 |
| 90 x 8,2 | 11.0 | 120 | **709 026 230** | 0.270 |
| 90 x 5,2 | 17.6 / 17.0 | 120 | **709 026 233** | 0.270 |
| 90 x 2,8 | 33 | 120 | **709 026 236** | 0.270 |
| 90 x 2,2 | 41 | 120 | **709 026 238** | 0.270 |
| 110 x 10,0 | 11.0 | 120 | **709 026 242** | 0.330 |
| 110 x 6,3 | 17.6 / 17.0 | 120 | **709 026 245** | 0.330 |
| 110 x 3,4 | 33 | 120 | **709 026 248** | 0.330 |
| 110 x 2,7 | 41 | 120 | **709 026 250** | 0.330 |
| 125 x 11,4 | 11.0 | 120 | **709 026 254** | 0.380 |
| 125 x 7,2 | 17.6 / 17.0 | 120 | **709 026 257** | 0.380 |
| 140 x 12,7 | 11.0 | 140 | **709 026 266** | 0.490 |
| 140 x 8,0 | 17.6 / 17.0 | 140 | **709 026 269** | 0.490 |
| 160 x 14,6 | 11.0 | 140 | **709 026 278** | 0.850 |
| 160 x 9,1 | 17.6 / 17.0 | 140 | **709 026 281** | 0.850 |
| 160 x 4,9 | 33 | 140 | **709 026 284** | 0.850 |
| 160 x 4,0 | 41 | 140 | **709 026 286** | 0.850 |
| 180 x 16,4 | 11.0 | 140 | **709 026 290** | 0.950 |
| 180 x 10,7 | 17.0 | 140 | **709 026 408** | 0.950 |
| 180 x 10,3 | 17.6 | 140 | **709 026 293** | 0.950 |

table continued on the next page

| d x e (mm) | SDR | L (mm) | Code | Weight (kg) |
|---|---|---|---|---|
| 200 x 18,2 | 11.0 | 160 | **709 026 302** | 1.210 |
| 200 x 11,9 | 17.0 | 160 | **709 026 409** | 1.210 |
| 200 x 11,4 | 17.6 | 160 | **709 026 305** | 1.210 |
| 200 x 6,1 | 33 | 160 | **709 026 308** | 1.210 |
| 200 x 4,9 | 41 | 160 | **709 026 310** | 1.210 |
| 225 x 20,5 | 11.0 | 160 | **709 026 314** | 1.360 |
| 225 x 13,4 | 17.0 | 160 | **709 026 410** | 1.360 |
| 225 x 12,8 | 17.6 | 160 | **709 026 317** | 1.360 |
| 250 x 22,8 | 11.0 | 160 | **709 026 326** | 2.010 |
| 250 x 14,8 | 17.0 | 160 | **709 026 411** | 2.010 |
| 250 x 14,3 | 17.6 | 160 | **709 026 329** | 2.010 |
| 250 x 7,6 | 33 | 160 | **709 026 332** | 2.010 |
| 250 x 6,1 | 41 | 160 | **709 026 334** | 2.010 |
| 280 x 25,5 | 11.0 | 160 | **709 026 338** | 2.250 |
| 280 x 16,6 | 17.0 | 160 | **709 026 340** | 2.250 |
| 280 x 16,0 | 17.6 | 160 | **709 026 341** | 2.250 |
| 315 x 28,7 | 11.0 | 160 | **709 026 350** | 2.530 |
| 315 x 18,7 | 17.0 | 160 | **709 026 413** | 2.530 |
| 315 x 17,9 | 17.6 | 160 | **709 026 353** | 2.530 |
| 315 x 9,6 | 33 | 160 | **709 026 356** | 2.530 |
| 315 x 7,7 | 41 | 160 | **709 026 358** | 2.530 |
| 355 x 32,3 | 11.0 | 160 | **709 026 362** | 2.850 |
| 355 x 21,1 | 17.0 | 160 | **709 026 414** | 2.850 |
| 355 x 20,2 | 17.6 | 160 | **709 026 365** | 2.850 |

# Accessories



## UNI-Fire Ø 21 - 223 mm
## Fire Protective Housing

suitable for any type of UNI-coupling
Transforms regular couplings into fire protective couplings

- Other dimensions available on request

**Model:**

- Stainless steel 1.4571 (W5) quality



| Code | Weight (kg) | EAN | OD min (mm) | OD max. (mm) | B (mm) | H (mm) |
|---|---|---|---|---|---|---|
| **779 773 003** | 0.2 | 8719141014532 | 36.0 | 43.0 | 110 | 119 |
| **779 773 004** | 0.2 | 8719141014549 | 43.0 | 52.5 | 110 | 127 |
| **779 773 005** | 0.3 | 8719141014556 | 52.5 | 64.0 | 125 | 140 |
| **779 773 006** | 0.5 | 8719141014563 | 64.0 | 80.0 | 145 | 179 |
| **779 773 007** | 0.6 | 8719141014570 | 80.0 | 97.0 | 145 | 185 |
| **779 773 008** | 0.6 | 8719141014587 | 97.0 | 113.0 | 145 | 202 |
| **779 773 009** | 0.7 | 8719141014594 | 113.0 | 130.0 | 145 | 217 |
| **779 773 012** | 8.3 | 8719141014624 | 149.0 | 157.0 | 160 | 264 |
| **779 773 015** | 1.0 | 8719141014655 | 210.0 | 223.0 | 190 | 302 |
| **779 773 016** | 1.0 | 8719141016512 | 221.0 | 234.0 | | |
| **779 773 017** | 1.0 | 8719141016529 | 234.0 | 247.0 | | |
| **779 773 018** | 1.0 | 8719141016536 | 247.0 | 260.0 | | |
| **779 773 019** | 1.0 | 8719141042344 | 263.0 | 276.0 | | |
| **779 773 020** | 1.0 | 8719141016550 | 277.0 | 290.0 | | |
| **779 773 021** | 1.0 | 8719141016567 | 288.0 | 301.0 | | |
| **779 773 022** | 1.0 | 8719141016574 | 301.0 | 314.0 | | |
| **779 773 023** | 1.0 | 8719141016581 | 315.0 | 328.0 | | |
| **779 773 024** | 1.0 | 8719141016598 | 327.0 | 340.0 | | |
| **779 773 025** | 1.0 | 8719141016604 | 340.0 | 353.0 | | |
| **779 773 026** | 1.0 | 8719141016611 | 350.0 | 363.0 | | |
| **779 773 027** | 1.0 | 8719141016628 | 361.0 | 374.0 | | |
| **779 773 028** | 1.0 | 8719141016635 | 374.0 | 387.0 | | |
| **779 773 029** | 1.0 | 8719141016642 | 387.0 | 400.0 | | |
| **779 773 030** | 1.0 | 8719141016659 | 400.0 | 413.0 | | |
| **779 773 031** | 1.0 | 8719141016666 | 412.0 | 425.0 | | |
| **779 773 032** | 1.0 | 8719141044317 | 422.0 | 435.0 | | |
| **779 773 033** | 1.0 | 8719141044324 | 438.0 | 451.0 | | |
| **779 773 034** | 1.0 | 8719141044331 | 451.0 | 464.0 | | |
| **779 773 035** | 1.0 | 8719141044348 | 460.0 | 473.0 | | |
| **779 773 036** | 1.0 | 8719141044355 | 476.0 | 489.0 | | |
| **779 773 037** | 1.0 | 8719141044362 | 488.0 | 501.0 | | |
| **779 773 038** | 1.0 | 8719141044379 | 503.0 | 516.0 | | |



## Fitting Plier

**Mode of action:**

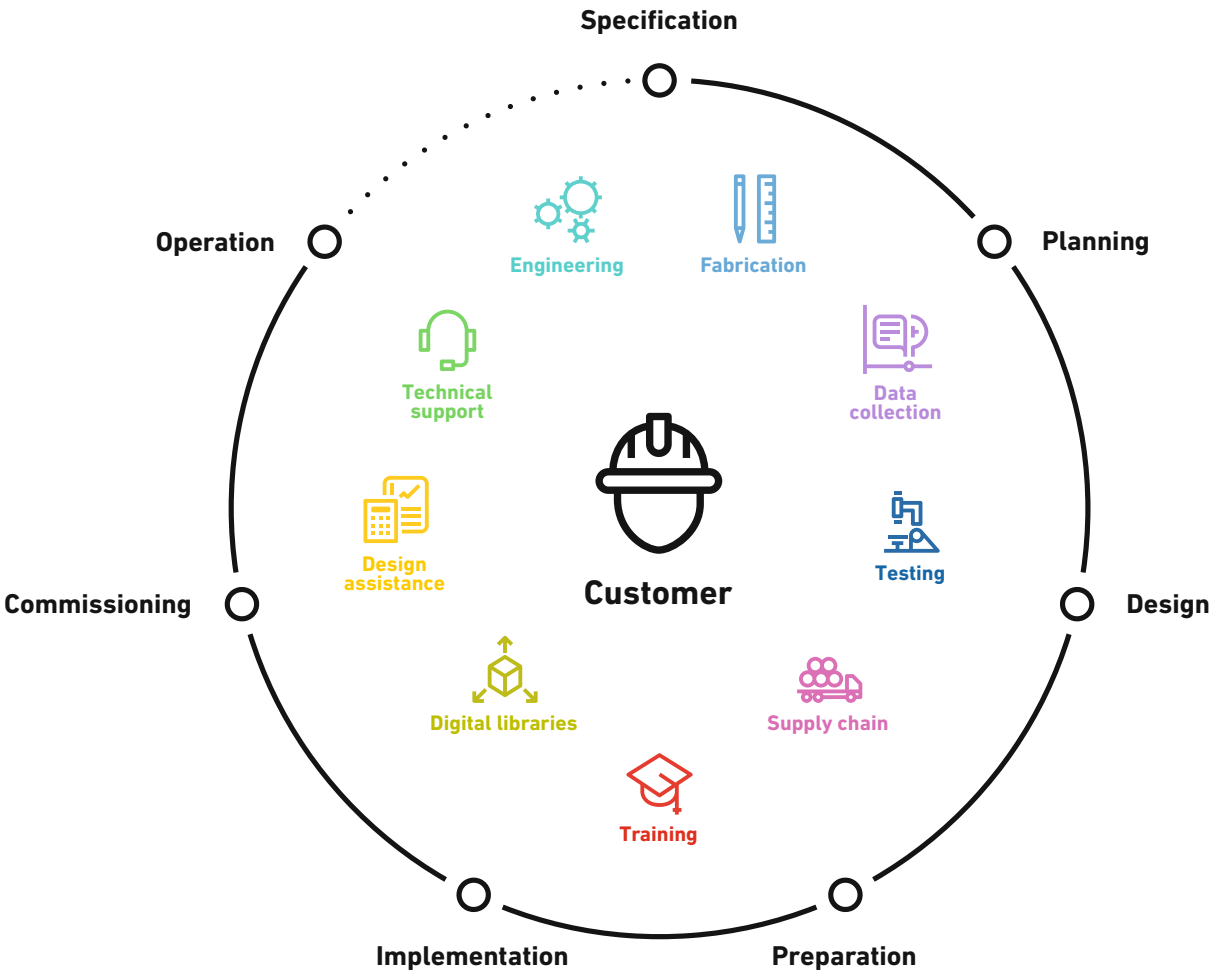
- For convenient assembling of the UNI-Rep couplings we recommend to use a plier
- The plier uses the bores in the housing in order to close the coupling
- In case of bigger diameter (>300mm) use a fitting belt



| Code | Weight (kg) | OD min (mm) | OD max. (mm) |
|---|---|---|---|
| **779 245 000** | 1.5 | 36 | 238 |

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