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.



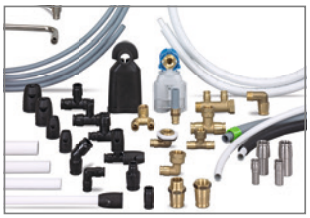
Offshore Energy

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



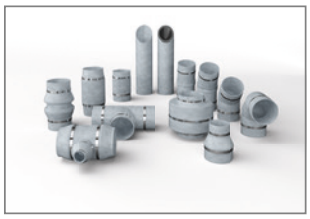
JRG Valves

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



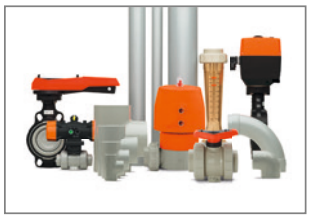
COOL-FIT 4.0

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

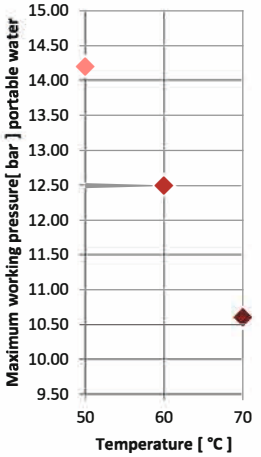
Operating temperature
–10°C to 95°C

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.

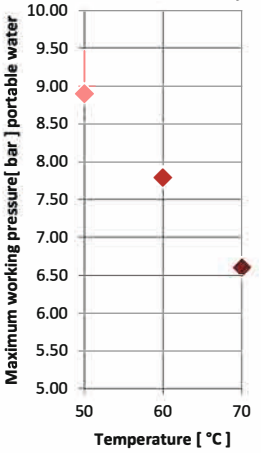
Technical Data

	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

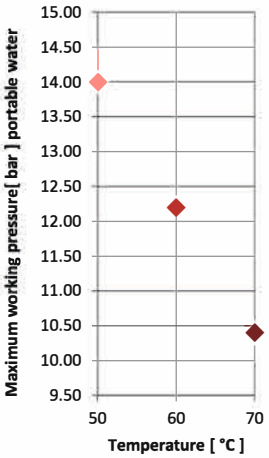
INSTAFLEX d16-d110
Working pressure (PN16)
expected lifetime 20 years



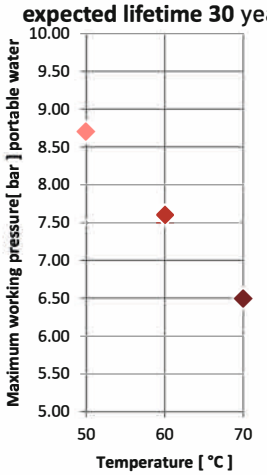
INSTAFLEX d125-d225
Working pressure (PN10)
expected lifetime 20 years



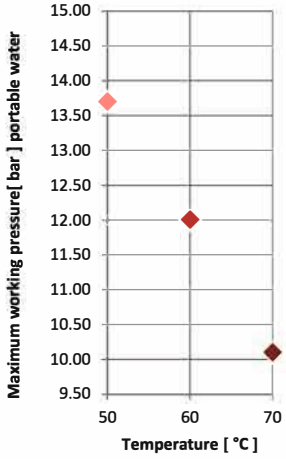
INSTAFLEX d16-d110
Working pressure (PN16)
expected lifetime 30 years



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

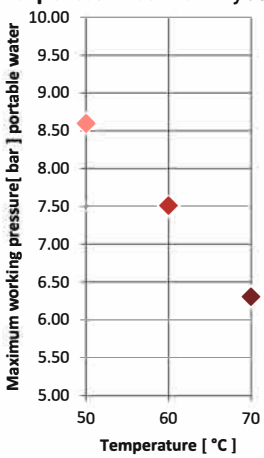
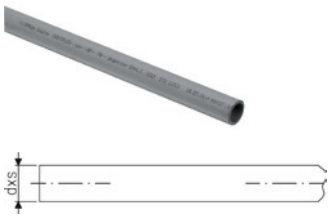


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INSTAFLEX Pipe PB
Bars

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

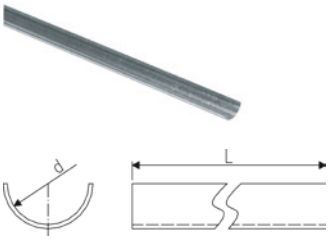
d (mm)	s (mm)	Code	Weight (kg)	L (m)
16	2.2	**760 856 606**	0.097	5.8
20	2.8	**760 856 607**	0.151	5.8
25	2.3	**760 856 608**	0.165	5.8
32	2.9	**760 856 609**	0.270	5.8
40	3.7	**760 856 610**	0.416	5.8
50	4.6	**760 856 611**	0.645	5.8
63	5.8	**760 856 612**	1.020	5.8
75	6.8	**760 856 613**	1.440	5.8
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



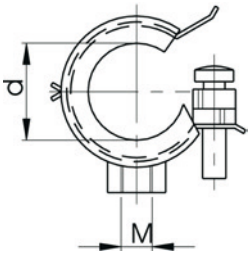
Pipe support tray galvanised

- 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

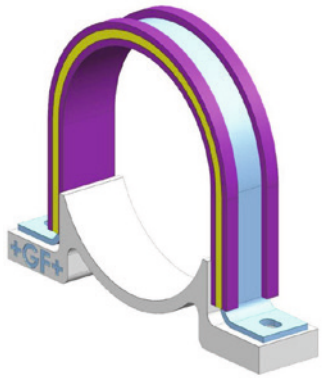




Pipe clamp
With rubber

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

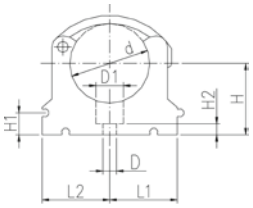


Pipe Brackets ROM

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









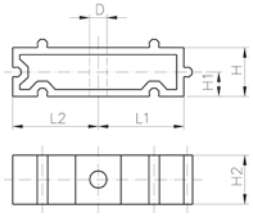
KLIP-IT pipe clip type 061 PE metric

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





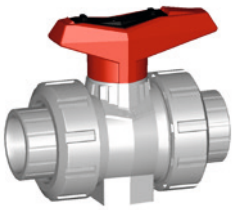
KLIP-IT spacer type 061 PE

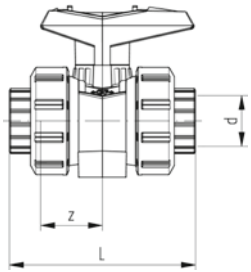
Model:

- **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



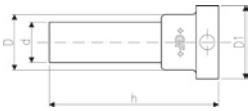


INSTAFLEX Ball valve type 546 Pro PP
Socket fusion / PB-flange adaptor

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



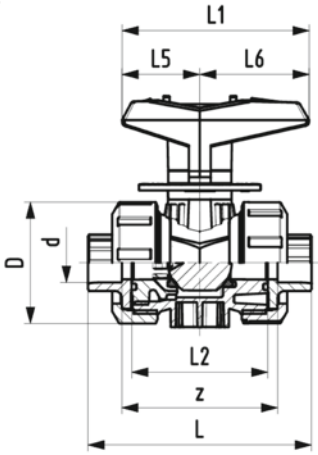
Linear ball valve type 546 PVC-C
With mounting inserts/With PB INSTAFLEX sockets metric

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

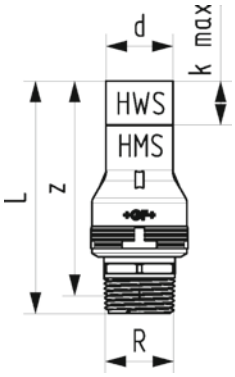
System Adapters
Adapters



INSTAFLEX Adapter PB/Brass
Socket fusion transition to male thread

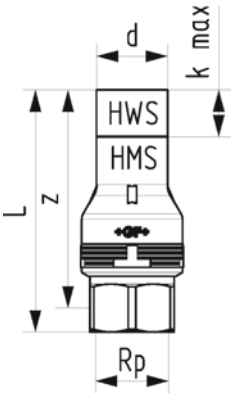
Socket fusion transition to male thread
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
Gasket: EPDM, quality for potable water

- 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



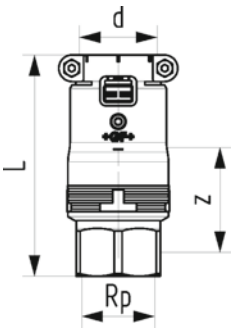


INSTAFLEX Adapter PB/Brass
Socket fusion transition to female thread

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



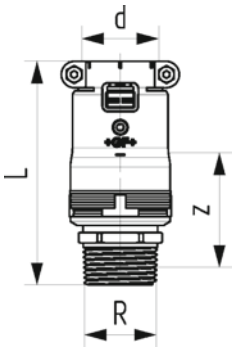


INSTAFLEX Adapter PB/Brass
Electro fusion transition to female thread

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



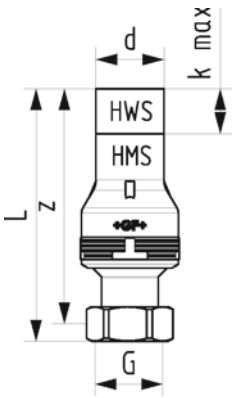


INSTAFLEX Adapter PB/Brass
Electro fusion transition to male thread

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

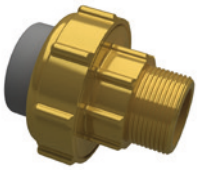


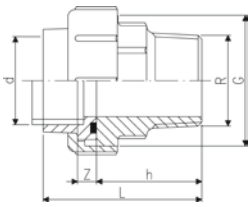


INSTAFLEX Adapter PB/Brass Socket fusion transition to loose nut adapter concering / Flat seal

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



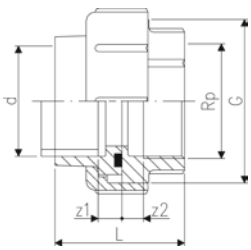


INSTAFLEX Adapter union PB/Brass
Socket / Male thread

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



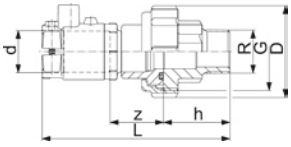


INSTAFLEX Adapter union PB/Brass
Socket / Female thread

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



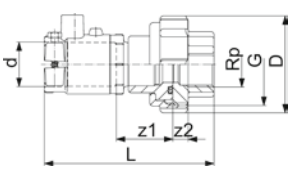


INSTAFLEX Adapter union PB/Brass
Electro fusion / Male thread

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



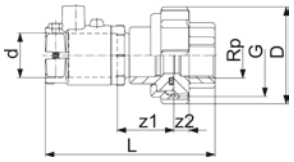


INSTAFLEX Adapter union PB/Brass
Electro fusion / Female thread

Including EPDM O-Ring, quality suitable for potable water

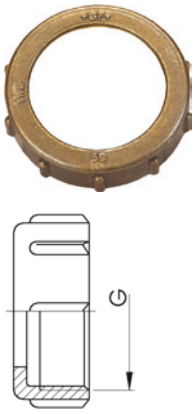
d (mm)	Rp (inch)	Code	D (mm)	L (mm)	G (inch)	z1 (mm)	z2 (mm)
16	½	**760 857 221**	41	90	1	31	9
20	½	**760 857 222**	50	93	1 ¼	30	10
25	¾	**760 857 223**	56	99	1 ½	33	9

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

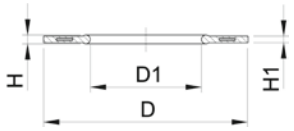


INSTAFLEX O-ring

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

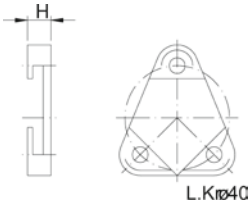
Model:

- 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





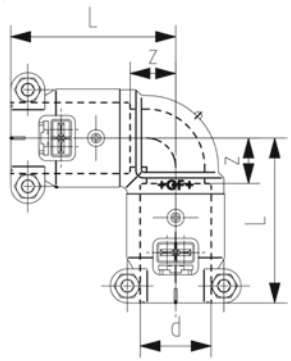
INSTAFLEX Rubber isolator
For pipe outlets

Suitable for dual pipe outlets

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

Electrofusion jointing HWS
Fittings



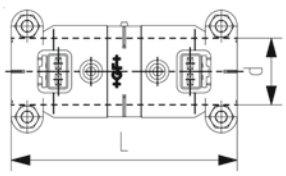


INSTAFLEX Elektro fusion Elbow 90° PB

- 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

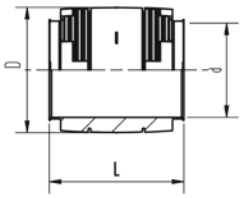
Suitable as sliding coupling

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

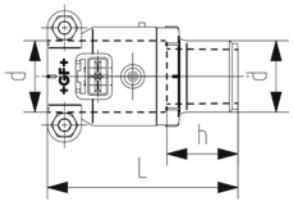




INSTAFLEX Electro fusion adaptor polybuten

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

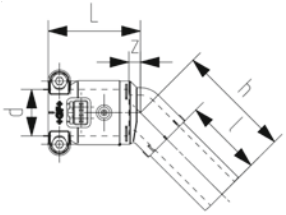
d (mm)	Code	Weight (kg)	L (mm)	h (mm)
16	**761 069 207**	0.026	60	23
20	**761 069 208**	0.017	61	22
25	**761 069 209**	0.026	67	25
32	**761 069 210**	0.037	71	29
40	**761 069 211**	0.060	79	32
50	**761 069 212**	0.095	85	36
63	**761 069 213**	0.151	94	43



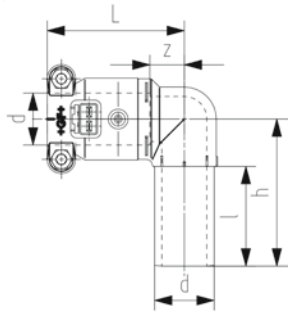


INSTAFLEX Electro fusion Elbow 45° PB
With socket-spigot

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



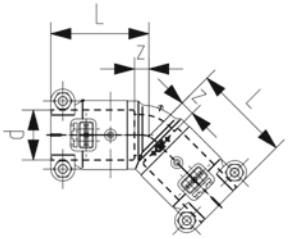




INSTAFLEX Elbow 90° PB
With socket-spigot

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

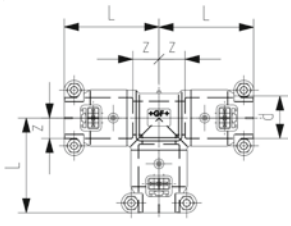




INSTAFLEX Electro fusion Elbow 45° PB

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



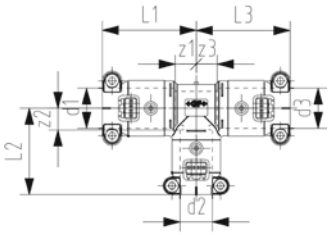


INSTAFLEX Electro fusion T-piece polybuten 90°

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

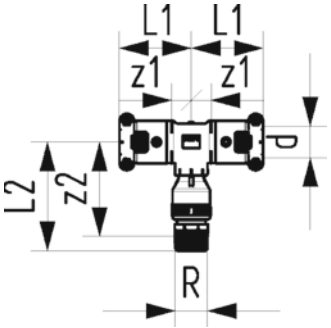




d1 (mm)	d2 (mm)	d3 (mm)	Code	Weight (kg)	L1 (mm)	L2 (mm)	L3 (mm)	z1 (mm)	z2 (mm)	z3 (mm)
20	16	16	**761 069 249**	0.058	54	47	47	14	10	10
20	16	20	**761 069 250**	0.041	54	49	54	14	11	14
25	16	25	**761 069 251**	0.082	58	54	58	16	16	16
25	20	20	**761 069 256**	0.079	58	54	54	16	14	14
25	20	25	**761 069 252**	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



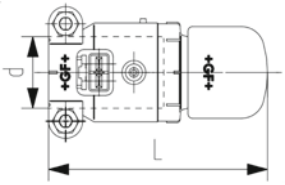


Electro fusion T-piece with transition to male thread
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
EPDM sealing hot and cold water approved

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

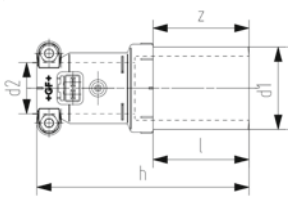
INSTAFLEX Cap PB





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





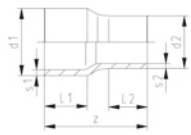
INSTAFLEX Electro fusion reducer polybutene

- 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





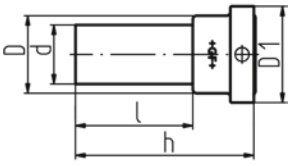
INSTAFLEX Reducer PB

- 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



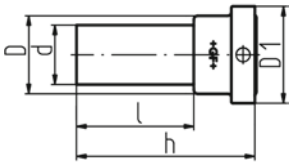


INSTAFLEX Flange adaptor with grove PB
With spigot for electrofusion fittings

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

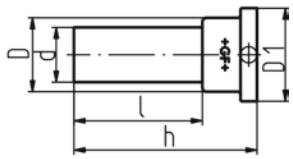
	d (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	l (mm)	h (mm)
*	20	**761 069 307**	0.018	27	34	47	70
*	25	**761 069 308**	0.023	33	41	50	76
*	32	**761 069 309**	0.039	41	50	50	78
*	40	**761 069 310**	0.061	50	61	56	88
*	50	**761 069 311**	0.096	61	73	58	93

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





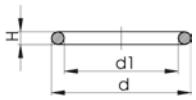
INSTAFLEX Flange adaptor flat PB
With spigot for electro fusion

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

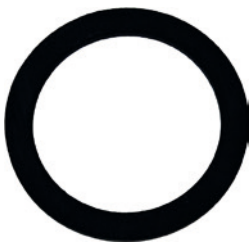


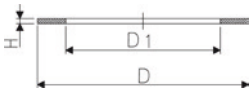


INSTAFLEX O-ring

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





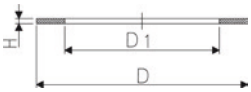
Flat gasket
For tank adaptors

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

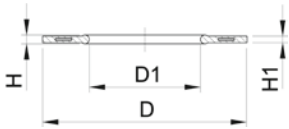
table continued on the next page



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





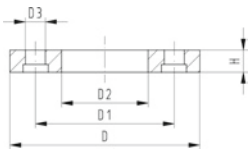
Profile flange gasket EPDM/FKM
metric
For flange adaptors without chamfer

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





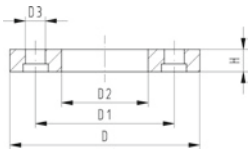
INSTAFLEX Backing flanges

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





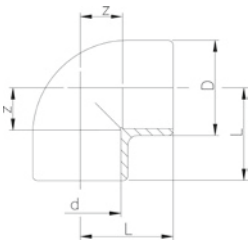
INSTAFLEX Backing flanges

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

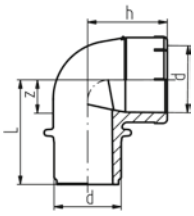




INSTAFLEX Elbow 90° PB

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

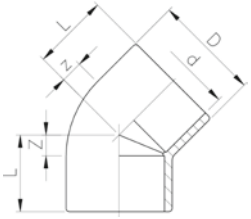




INSTAFLEX Elbow 90° PB
With socket-spigot

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

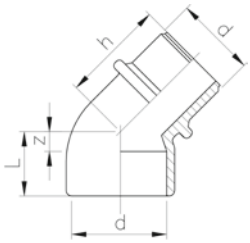




INSTAFLEX Elbow 45° PB

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

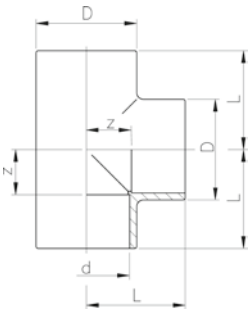




INSTAFLEX Elbow 45° PB
With socket-spigot

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

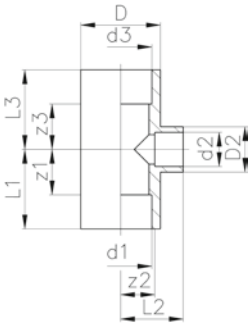




INSTAFLEX Tee 90° equal PB

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



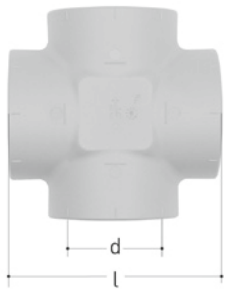


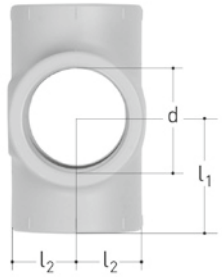
INSTAFLEX Tee 90° reduced PB

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



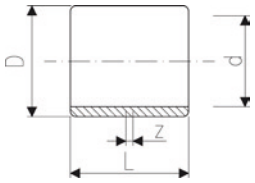




d (mm)	PN (bar)	d	Code	Weight (kg)	l (mm)	l1 (mm)	l2 (mm)
51	16	40	**761 068 066**	0.098	88	44	26
64	16	50	**761 068 067**	0.169	102	51	32
81	16	63	**761 068 068**	0.321	124	62	41

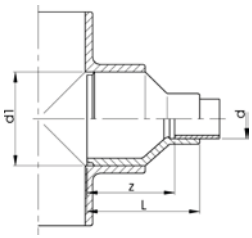
INSTAFLEX Socket PB





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

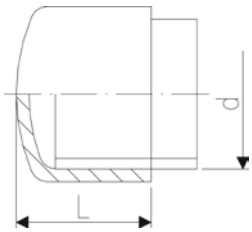




INSTAFLEX Reducing bush PB

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



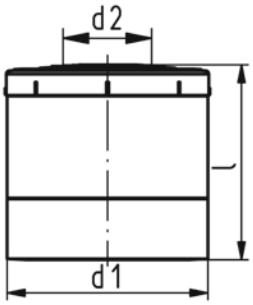


INSTAFLEX Cap PB

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



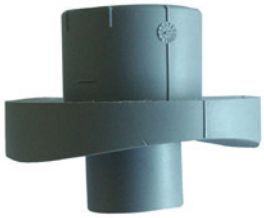


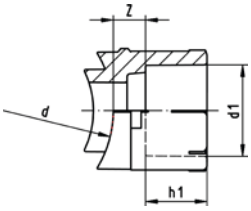
INSTAFLEX Special reducer PB

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



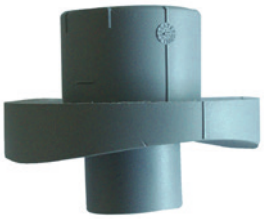


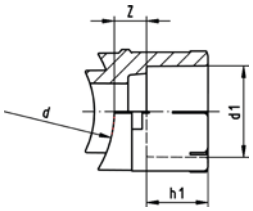
INSTAFLEX Weld-in saddle PB

* 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

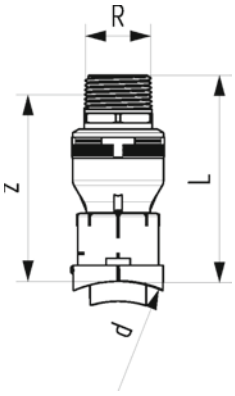




d - d1 (mm)	Code	Weight (kg)	h1 (mm)	z (mm)
125 - 32	**761 068 018**	0.035	20	16
125 - 40	**761 068 019**	0.056	22	16
125 - 50	**761 068 020**	0.072	25	16
160 - 32	**761 068 021**	0.045	20	16
160 - 40	**761 068 022**	0.061	22	16
160 - 50	**761 068 023**	0.077	25	16
225 - 32	**761 068 024**	0.076	20	16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

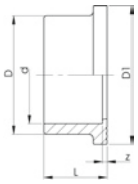




Weld-in saddle transition to male thread
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
EPDM sealing hot and cold water approved

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

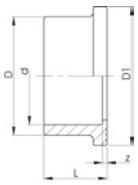




INSTAFLEX Transition PB
To Ball Valve 546

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



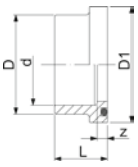


INSTAFLEX Flange adaptor flat PB

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

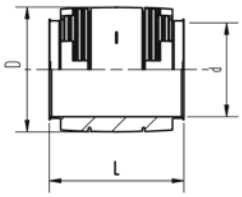
d (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	z (mm)
16	**761 066 640**	0.006	22	29	23	8
20	**761 066 641**	0.008	27	34	23	8
25	**761 066 642**	0.012	33	41	26	8
32	**761 066 643**	0.021	41	50	28	8
40	**761 066 644**	0.034	50	61	32	10
50	**761 066 645**	0.049	61	73	35	10
63	**761 066 646**	0.077	76	90	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

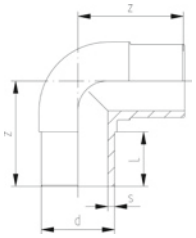




INSTAFLEX Butt fusion Elbow 90° PB

- 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

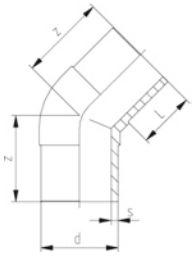




INSTAFLEX Butt Fusion Elbow 45° PB

- 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





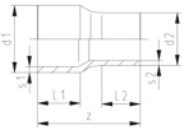


INSTAFLEX Tee 90° - equal PB

- 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





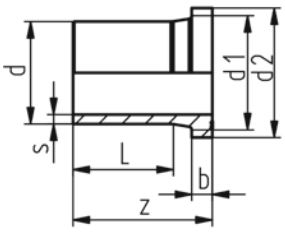
INSTAFLEX Reducer PB

- 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

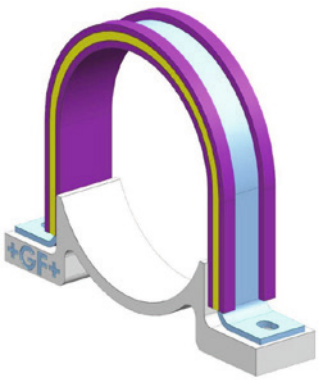




INSTAFLEX Flange adaptor flat PB

- Material: PB

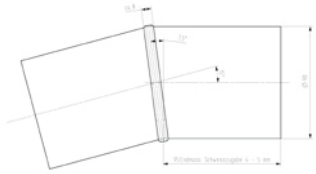
d (mm)	Code	Weight (kg)	d1 (mm)	d2 (mm)	L (mm)	b (mm)	z (mm)
125	**761 065 264**	0.870	132	162	123	25	170
160	**761 065 265**	1.700	176	218	147	25	200
225	**761 065 266**	3.003	236	274	122	32	200
315	**761 065 323**	5.227	336	371	170	36	291



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



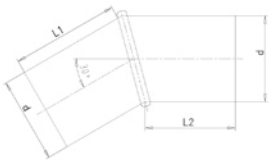


INSTAFLEX Elbow 15° PB
With two short ends

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





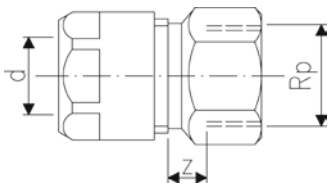
INSTAFLEX Elbow 30° PB
With short end

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

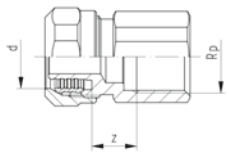
Brass: UBA conform

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



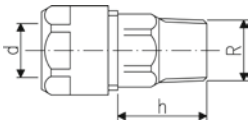
INSTAFLEX Transition Brass
With female thread

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

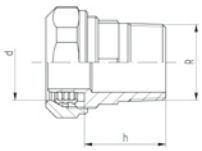
Brass: UBA conform

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



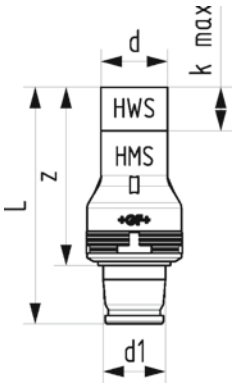
INSTAFLEX Transition Brass
With male thread

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

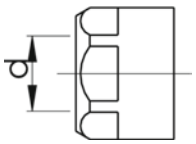
Socket fusion transition to iFIT
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
EPDM sealing hot and cold water approved

- 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

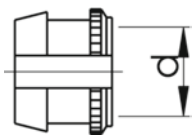




INSTAFLEX Union nut Brass

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

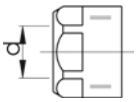




INSTAFLEX Clamping ring Brass

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



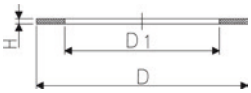


INSTAFLEX Cap Brass

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

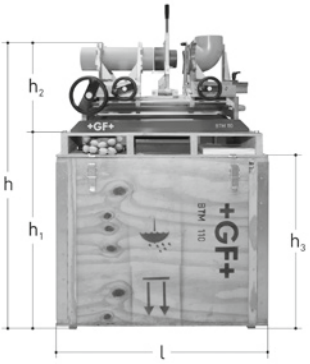
The MSA 2 MULTI automatic electro fusion unit combines light weight and high efficiency, thanks to its inverter technology. The unit is suitable for welding PE, PP, INSTAFLEX PB d125-225, Fuseal d1 1/2"-12" and PPro-Seal 1/2"-3".
It is robust, safe and ergonomic.
All is meant to simplify the job: the 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

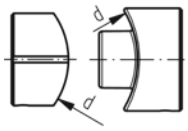


INSTAFLEX Heating bushes

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



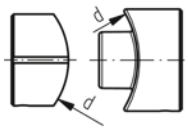


INSTAFLEX Heating bushes
For weld-in saddle PB

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

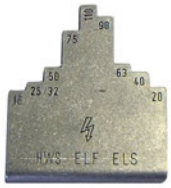
For heating element straight
d = Pipe dim.

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

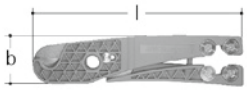


INSTAFLEX Heating element
Complete set / 230V

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

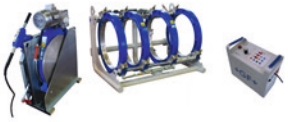
d-d (mm)	Code	Weight (kg)
16 - 63	**761 066 800**	0.014

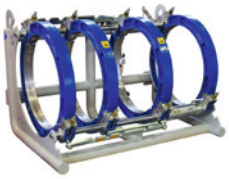


IM 315
Butt fusion machine for industrial applications

- 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

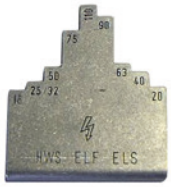
Tool to change the heating bushes

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

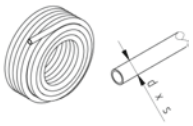
Operating temperature
0 °C to 70°C continuous operation, (short-term up to 95°C)

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.

Table of contents		Page
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Pipes





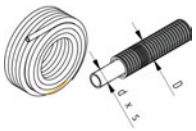
iFIT Multilayer pipe

- 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



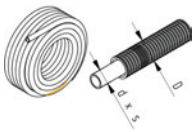


iFIT Multilayer pipe In bars, 5.0m

- 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



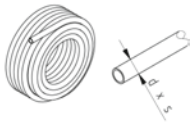


iFIT Polybutene pipe Protected

- 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





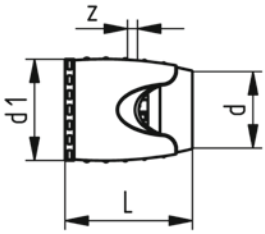
iFIT Polybutene pipe polybutene In bars, 5.0m

- 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





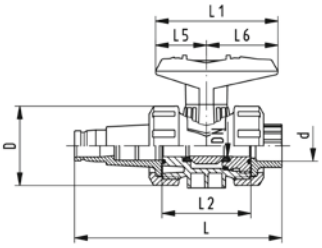
iFIT Adaptor PPSU

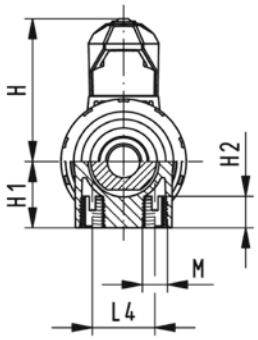
- Material: PPSU, PA

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







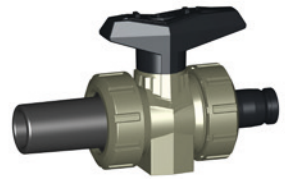
PROGEF Standard Shipbuilding ball valve type 547
With iFIT connection and fusion socket PB

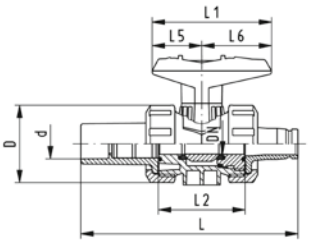
Model:

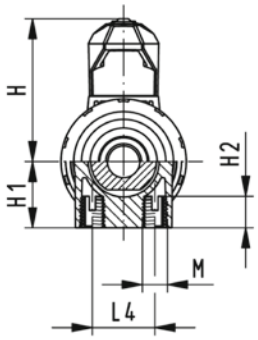
- Material: PP-H
- iFIT connection for d16/20
- iFIT connection with integrated check valve and filter
- For easy installation and removal
- Ball seat PTFE
- Integrated stainless steel mounting inserts

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







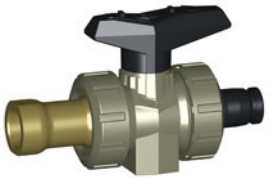
PROGEF Standard Shipbuilding ball valve type 547
With fusion socket PB and iFIT connection

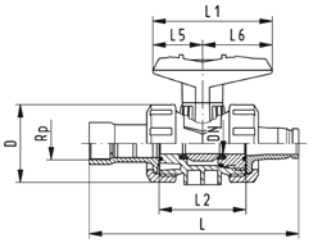
Model:

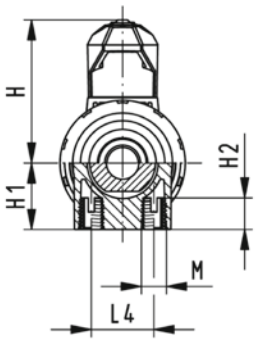
- Material: PP-H
- iFIT connection for d16/20
- For easy installation and removal
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Fusion socket PB with integrated check valve and filter

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

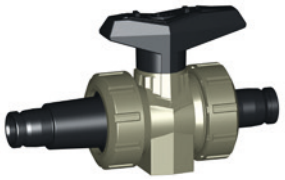
d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
20	15	Rp	½	10	40	**167 547 512**	0.327

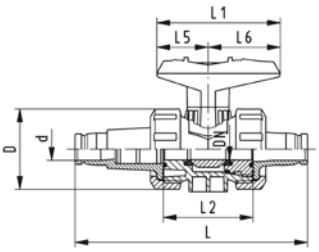
D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M (mm)
50	57	27	12	136	77	56	25	32	45	6

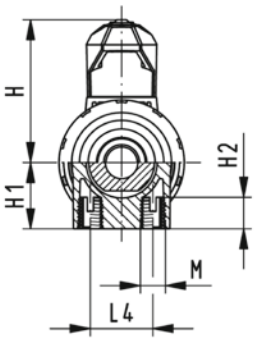


Service housing end connector kit with iFIT connector

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:

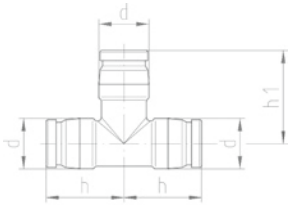
- Material: PP-H
- iFIT connection for d16/20
- iFIT connector with integrated check valve and filter
- For easy installation and removal
- Ball seat PTFE
- Integrated stainless steel mounting inserts

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



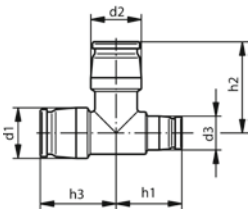


iFIT T-piece module ppsu

- 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



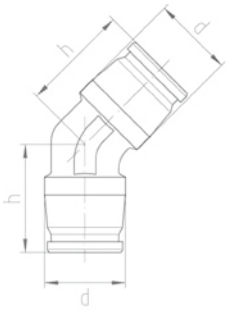


iFIT T- piece module reduced ppsu

- 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



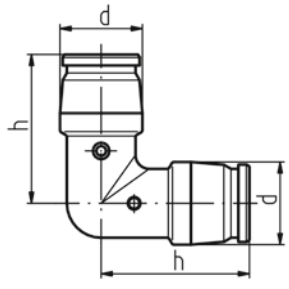


iFIT Elbow module 45° ppsu

- 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



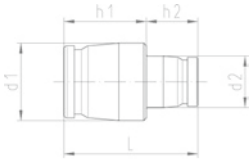


iFIT Elbow module 90° ppsu

- 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



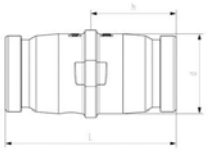


iFIT Reducing module ppsu

- 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

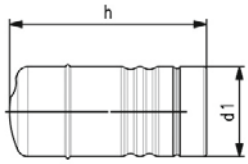




iFIT Coupler/reducing module PPSU

- 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

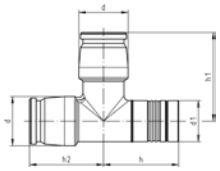


iFIT Cap for adaptor ppsu

- 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

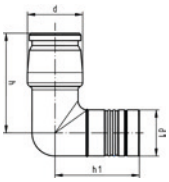
d (mm)	Code	Weight (kg)	d1 (mm)	h (mm)	h1 (mm)	h2 (mm)	PN (bar)	PN at 20°C (bar)
16/20 - 20	**762 101 386**	0.017	20	41	37	32	10	16
25/32 - 25	**762 101 387**	0.044	25	46	54	45	10	16



iFIT Elbow module 90° ppsu
With Pipe outline

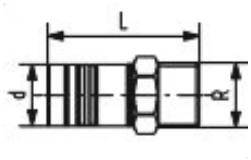
- Material: PPSU

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



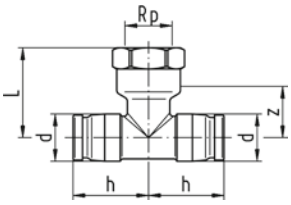


iFIT Male thread adaptor stainless steel
Pipe outline 1/2"

- 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



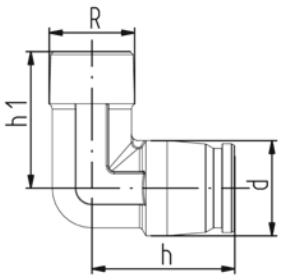


iFIT Transition module brass
With female thread

- 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



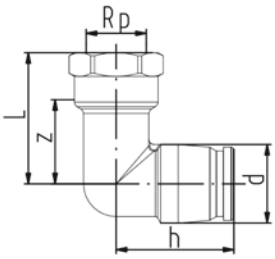


iFIT Transition elbow module brass
With male thread

- 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

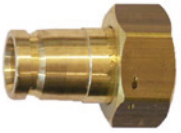


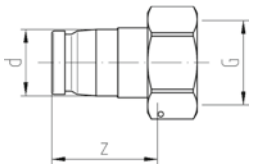


iFIT Transition elbow module brass
With female thread

- 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



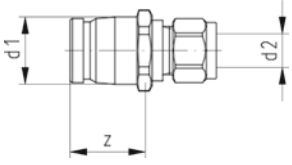


iFIT Transition union module brass
With flat sealed

- 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



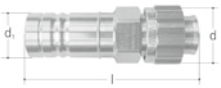


iFIT Transition module brass
With clamping end Copper

- 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



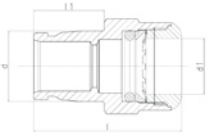


iFIT Transition module brass
With JRG Sanipex connector

- 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





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

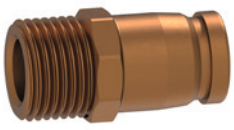


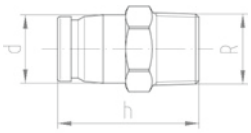


iFIT Transition module brass
With spigot ELGEF

- 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

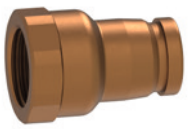


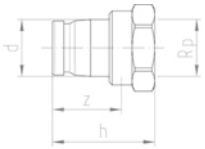


iFIT Transition module gunmetal lead-free
With male thread

- 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





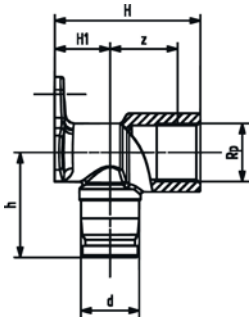
iFIT Transition module gunmetal lead-free
With female thread

- 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

Outlet Joints







iFIT Single pipe outlet module brass

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

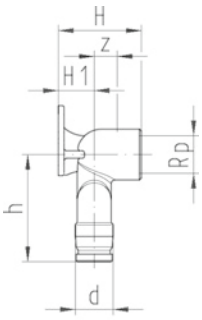
d (mm)	Rp (inch)	Code	Weight (kg)	H (mm)	H1 (mm)	h (mm)	z (mm)
16 - 20	½	**762 101 364**	0.181	50	19	36	12
16 - 20	½	**762 101 274**	0.181	64	19	36	32
16 - 20	½	**762 101 321**	0.272	95	19	39	63

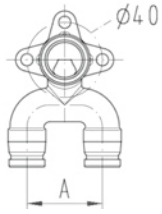


iFIT Dual pipe outlet module brass

- 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





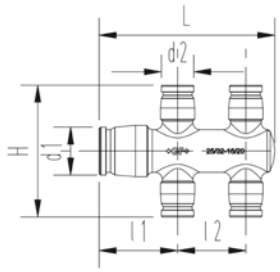
Manifolds



iFIT Manifold module PPSU

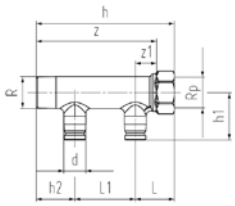
- Material: PPSU

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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	Cable & Accessories	76

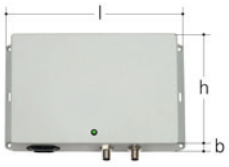
Master & Powerbox



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





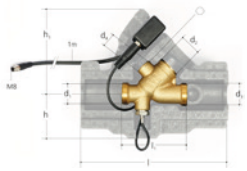
JRG LegioTherm K Flushing valve gunmetal With controller

- 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

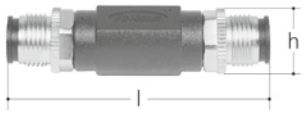
Cable & Accessories



Hycleen Automation power supply and communication cable

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

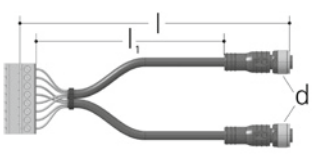
L (m)	Voltage	JRG Code	GF Code	Weight (kg)	d (mm)	d1 (mm)
1.5	36V	**9940.001**	**351 110 581**	0.110	14.5	6.8
3	36V	**9940.003**	**351 110 541**	0.110	14.5	6.8
5	36V	**9940.005**	**351 110 582**	0.300	14.5	6.8
10	36V	**9940.010**	**351 110 583**	0.630	14.5	6.8
20	36V	**9940.020**	**351 110 584**	1.240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

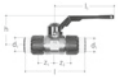
Dimensions range
d16 mm – d63 mm

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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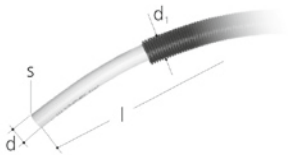
Pipes



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

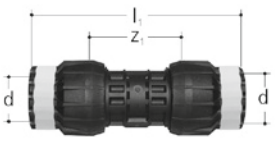


JRG Sanipex MT Pipe in coils PE-Xc Multilayerpipe in coils

- 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

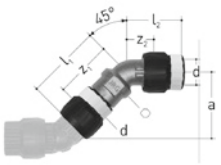
d (mm)	JRG Code	GF Code	Weight (kg)	l (mm)
16	**4692.016**	**351 616 940**	0.019	35
20	**4692.020**	**351 620 940**	0.031	46
26	**4692.026**	**351 626 940**	0.060	57
32	**4692.032**	**351 632 940**	0.108	72
40	**4692.040**	**351 640 940**	0.190	84
50	**4692.050**	**351 650 940**	0.330	104
63	**4692.063**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

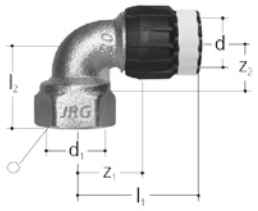
d (mm)	GN (inch)	Size (inch)	JRG Code	GF Code	Weight (kg)	d1	l1 (mm)	l2 (mm)	z1 (mm)	z2 (mm)	⬡ (mm)
26	¾	¾	**4677.250**	**351 626 951**	0.180	3/4	58	35	27	21	36
32	1	1	**4677.310**	**351 632 966**	0.270	1	72	32	32	15	43
40	1 ¼	⅝	**4677.410**	**351 640 949**	0.430	1 1/4	84	37	37	18	50
50	1 ½	1 ½	**4677.510**	**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

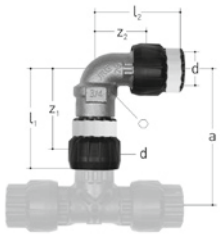
- Description: for JRG Sanipex d16/20, JRG Sanipex MT Pipes
- Material: gunmetal, plastic
- Connection: male thread, cone grip union

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

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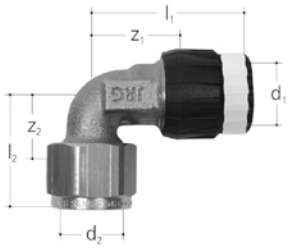
d (mm)	GN (inch)	JRG Code	GF Code	Weight (kg)	d1 R (inch)	l1 (mm)	l2 (mm)	z1 (mm)	⬡ (mm)
26	¾	**4672.250**	**351 626 993**	0.180	¾	69	54	39	27
32	1	**4672.310**	**351 632 994**	0.280	1	83	60	45	32
40	1 ¼	**4672.410**	**351 640 994**	0.480	1 ¼	106	74	55	46
50	1 ½	**4672.510**	**351 650 994**	0.779	1 ½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



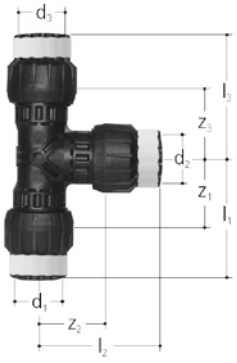
JRG Sanipex MT T-piece equal PPSU

- 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

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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

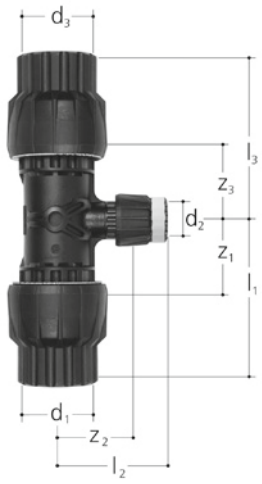


JRG Sanipex MT T-piece reduced PPSU

- 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

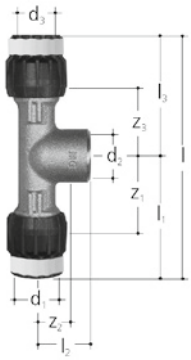


JRG Sanipex MT T-piece reduced PPSU

- 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

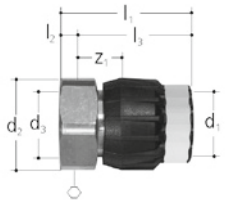
d1 (mm)	d2 Rp (inch)	d3 (mm)	l (mm)	l1 (mm)	l2 (mm)	l3 (mm)	z1 (mm)	z2 (mm)	z3 (mm)
16	½	16	108	54	27	54	35	12	35
20	½	20	125	63	28	63	39	13	39
26	½	26	149	70	34	70	41	19	41
26	¾	26	149	70	34	70	41	18	41
32	½	32	172	86	34	86	49	19	49
32	¾	32	182	86	34	86	49	18	49



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

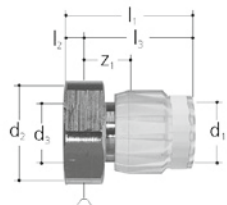
d (mm)	GN (inch)	d-d (mm)	Size (inch)	JRG Code	GF Code	Weight (kg)	d1 R (inch)	l1 (mm)	l2 (mm)	l3 (mm)	z2 (mm)	z3 (mm)
16	½	16 - 16	½	**4655.100**	**351 616 972**	0.100	½	29	44	44	26	26
16	¾	16 - 16	¾	**4655.200**	**351 616 973**	0.135	¾	35	44	44	26	26
20	¾	20 - 20	¾	**4655.220**	**351 620 973**	0.170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

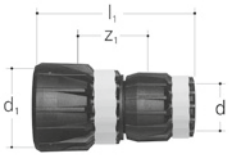
d (mm)	JRG Code	GF Code	Weight (kg)	d1 (mm)	d2 G (inch)	d3 (mm)	l1 (mm)	l2 (mm)	l3 (mm)	z1 (mm)	⬡ (mm)
16	**4663.016**	**351 564 402**	0.065	16	¾	18	42	8	34	15	32
20	**4663.020**	**351 564 403**	0.080	20	¾	18	47	8	39	16	32



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

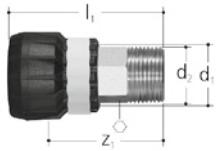
d (mm)	JRG Code	GF Code	Weight (kg)	d1 (mm)	d2 G (inch)	d3 (mm)	l1 (mm)	l2 (mm)	l3 (mm)	z1 (mm)	⬡ (mm)
16	**4663.116**	**351 564 412**	0.060	16	¾	18	42	8	34	15	32



JRG Sanipex MT Reduction PPSU

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

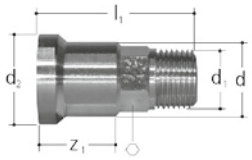
d1 (mm)	d (mm)	JRG Code	GF Code	Weight (kg)	l1 (mm)	z1 (mm)
20	16	**4730.100**	**351 620 925**	0.035	58.0	31
26	16	**4730.102**	**351 626 926**	0.050	70.5	41
26	20	**4730.104**	**351 626 927**	0.055	74.0	39
32	16	**4730.106**	**351 632 925**	0.075	82.0	52
32	20	**4730.108**	**351 632 926**	0.075	87.0	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

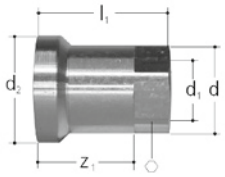
d (mm)	GN (inch)	JRG Code	GF Code	Weight (kg)	d1 (mm)	d2 R (inch)	l1 (mm)	z1 (mm)	⬡ (mm)
20	½	**4696.210**	**351 620 931**	0.090	20	½	59	34	18
26	¾	**4696.220**	**351 626 960**	0.155	26	¾	70	41	23



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

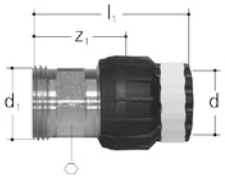


JRG Sanipex MT Transition union gunmetal

- 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.

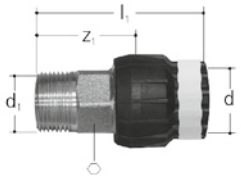
d (mm)	GN (inch)	JRG Code	GF Code	Weight (kg)	d1 G (inch)	l1 (mm)	l2 (mm)	l3 (mm)	z1 (mm)	⬡ (mm)
16	½	**4700.096**	**351 616 992**	0.068	½	43.0	6.0	37.0	16.5	27
20	½	**4700.098**	**351 620 968**	0.071	½	50.0	6.0	44.0	17.5	27
16	¾	**4700.102**	**351 616 994**	0.066	¾	39.0	6.0	33.0	14.5	32
20	¾	**4700.104**	**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

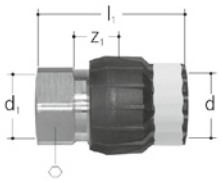
d (mm)	GN (mm)	JRG Code	GF Code	Weight (kg)	d1 G (inch)	l2 (mm)	z1 (mm)	⬡ (mm)
20	1	**4705.020**	**351 620 989**	0.120	1	58	35	30
26	1	**4705.026**	**351 626 991**	0.150	1	68	39	30
32	1	**4705.032**	**351 632 993**	0.185	1	78	38	30



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

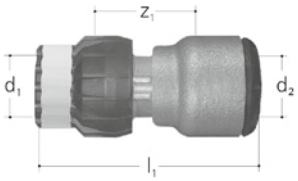
d (mm)	GN (inch)	JRG Code	GF Code	Weight (kg)	d1 (mm)	d1 R (inch)	l1 (mm)	z1 (mm)	⬡ (mm)
16	½	**4710.110**	**351 616 997**	0.070	16	½	50	31	21
16	¾	**4710.150**	**351 620 933**	0.100	16	¾	57	37	21
20	½	**4710.210**	**351 620 995**	0.077	20	½	59	36	21
20	¾	**4710.220**	**351 620 996**	0.110	20	¾	60	37	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

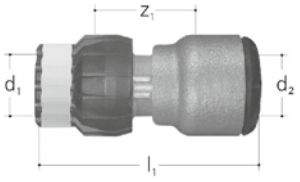
Approved for the following pipe types and systems:(For other approvals, please contact our technical customer service).

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

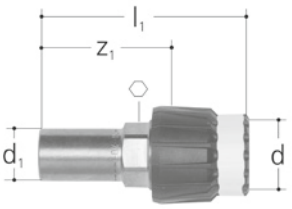
Copper pipes / PN10 / Ø 12, 15, 18, 22, 28, 35, 42, 54 / WICU, KME / SANCO, Wieland-Werke / SANCO, KME

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



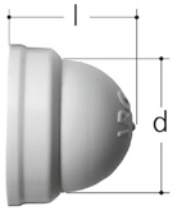
d (mm)	DN (mm)	JRG Code	GF Code	Weight (kg)	d1 (mm)	d2 (mm)	l1 (mm)	z1 (mm)
20 - 22	15	**4714.105**	**351 060 516**	0.140	20	22	82	25
26 - 22	20	**4714.106**	**351 060 521**	0.140	26	22	75	15
32 - 28	25	**4714.108**	**351 060 531**	0.245	32	28	93	14
40 - 35	32	**4714.110**	**351 060 541**	0.380	40	35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

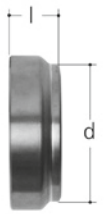
	DN-d (mm)	JRG Code	GF Code	Weight (kg)	d (mm)	d1 (mm)	l1 (mm)	z1 (mm)	⬡ (mm)
*	12 - 16	**4716.098**	**351 616 926**	0.046	16	12	60	39	16
	15 - 16	**4716.100**	**351 616 924**	0.046	16	15	65	45	16
	18 - 16	**4716.101**	**351 616 925**	0.052	16	18	65	45	18
	18 - 20	**4716.104**	**351 620 941**	0.068	20	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

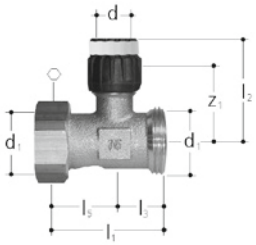
d (mm)	JRG Code	GF Code	Weight (kg)	l (mm)
16	**4695.016**	**351 616 904**	0.002	16
20	**4695.020**	**351 620 904**	0.003	19
26	**4695.026**	**351 626 904**	0.007	24
32	**4695.032**	**351 632 904**	0.012	28
40	**4695.040**	**351 640 904**	0.020	34



JRG Sanipex MT Cap for cone grip unions gunmetal

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

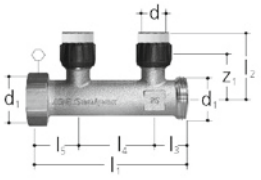
d (mm)	JRG Code	GF Code	Weight (kg)	l (mm)
50	**4695.050**	**351 650 904**	0.140	18
63	**4695.063**	**351 663 904**	0.275	22



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

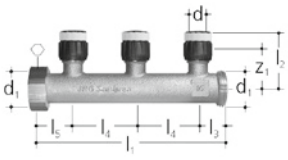
d (mm)	Size (inch)	JRG Code	GF Code	Weight (kg)	d1 G (inch)	l1 (mm)	l2 (mm)	l3 (mm)	l5 (mm)	z1 (mm)	⬡ (mm)
16	1	**4640.116**	**351 616 965**	0.210	1	55	50	24	31	31	37
20	1	**4640.120**	**351 620 965**	0.210	1	55	60	24	31	38	37



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

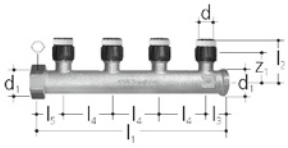
d (mm)	Size (inch)	JRG Code	GF Code	Weight (kg)	d1 G (inch)	l1 (mm)	l2 (mm)	l3 (mm)	l4 (mm)	l5 (mm)	z1 (mm)	⬡ (mm)
16	1	**4640.216**	**351 616 966**	0.320	1	110	50	24	55	31	31	37
20	1	**4640.220**	**351 620 966**	0.465	1	110	60	24	55	31	38	37



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

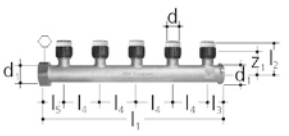
d (mm)	Size (inch)	JRG Code	GF Code	Weight (kg)	d1 G (inch)	l1 (mm)	l2 (mm)	l3 (mm)	l4 (mm)	l5 (mm)	z1 (mm)	⬡ (mm)
16	1	**4640.316**	**351 616 967**	0.515	1	165	50	24	55	31	31	37
20	1	**4640.320**	**351 620 967**	0.490	1	165	60	24	55	31	38	37



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

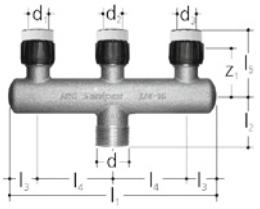
d (mm)	Size (inch)	JRG Code	GF Code	Weight (kg)	d1 G (inch)	l1 (mm)	l2 (mm)	l3 (mm)	l4 (mm)	l5 (mm)	z1 (mm)	⬡ (mm)
16	1	**4640.416**	**351 616 968**	0.590	1	220	50	24	55	31	31	37



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

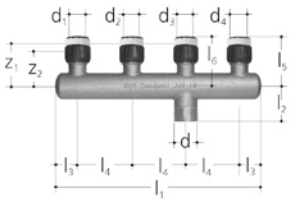


JRG Sanipex MT Manifold concealed 3-fold gunmetal

- 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



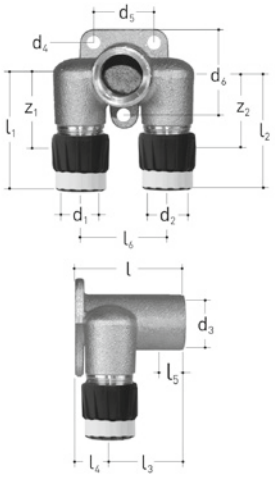
JRG Sanipex MT Manifold concealed 4-fold gunmetal

- 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

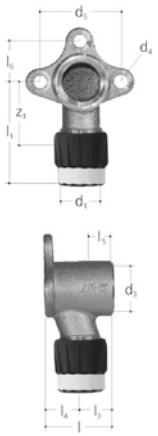
- Description: to JRG Sanipex, JRG Sanipex MT pipes
- Material: gunmetal, plastic
- Connection: female thread, cone grip union
- Suitable to: 5409.011, 5409.012

*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



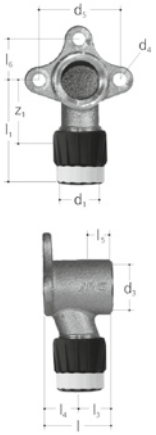
JRG Sanipex MT Fitting connector single gunmetal

- 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

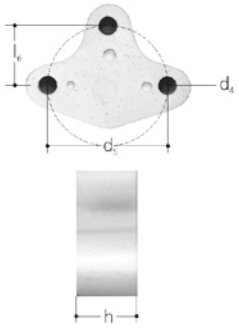
*as long as stock last

	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



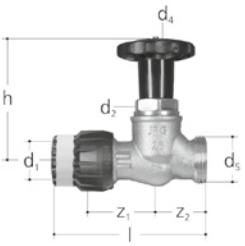
Distance piece plastic

- 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

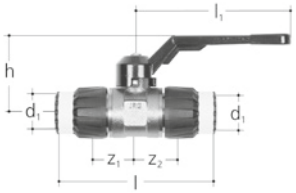
Valves



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

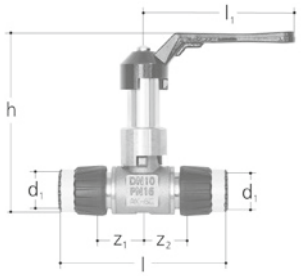
d (mm)	DN (mm)	JRG Code	GF Code	Weight (kg)	d1 (mm)	d2 G (inch)	d4 (mm)	d5 G (inch)	h (mm)	l (mm)	z1 (mm)	z2 (mm)
26	20	**4771.010**	**351 626 975**	0.420	26	¾	53	1	79	101	39	33



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

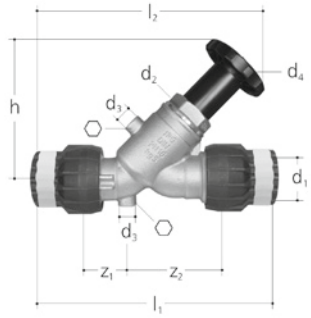
d (mm)	DN (mm)	JRG Code	GF Code	Weight (kg)	d1 (mm)	h (mm)	l (mm)	l1 (mm)	PN (bar)	z1 (mm)	z2 (mm)
16	12	**6041.116**	**351 616 330**	0.264	16	99	130	84	10	28	28
20	15	**6041.120**	**351 620 330**	0.342	20	106	109	84	10	31	31
26	20	**6041.126**	**351 626 330**	0.593	26	125	131	125	10	37	37
32	25	**6041.132**	**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

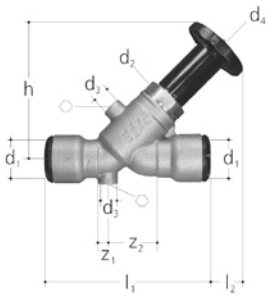


JRG Sanipex MT LegioStop Y-type valve gunmetal

- 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

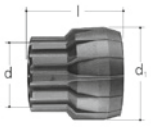
- Description: free of water pockets and maintenance free top, non rising handwheel with optical position indicator, valve seat and valve stem made of stainless steel
- Temperature: max. 90°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Connection: push-in system sudoFIT

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

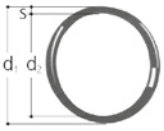
Accessories



JRG Sanipex MT cone grip union plastic

- Material: plastic

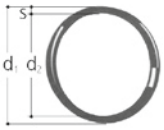
d (mm)	GF Code	Weight (kg)	d1 (mm)	l (mm)
16	**351 616 901**	0.006	27	25.5
20	**351 620 901**	0.010	32	30.5
26	**351 626 901**	0.025	42	39.5
32	**351 632 901**	0.034	52	48.0
40	**351 640 901**	0.070	64	59.0
50	**351 650 901**	0.115	76	73.0
63	**351 663 901**	0.220	95	92.0



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

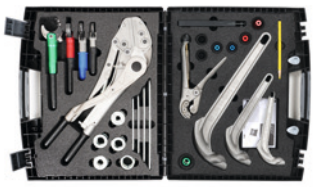


JRG Sanipex MT O-Ring EPDM

- 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

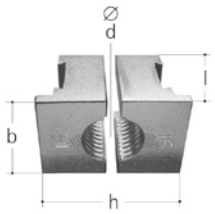
d-d (mm)	JRG Code	GF Code	Weight (kg)	l (mm)	b (mm)	h (mm)
16 - 32	**4802.000**	**351 600 098**	9.830	500	125	420



JRG Sanipex MT Hand bending template aluminium

- Material: aluminium

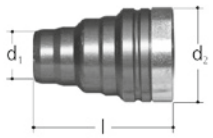
d (mm)	JRG Code	GF Code	Weight (kg)	l (mm)
16	**4806.016**	**351 616 907**	0.200	217
20	**4806.020**	**351 620 907**	0.320	270
26	**4806.026**	**351 626 907**	0.775	415



JRG Sanipex MT Clamping jaw dovetail steel

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

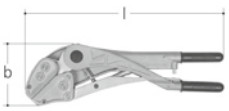
d (mm)	JRG Code	GF Code	Weight (kg)	b (mm)	h (mm)	l (mm)
16	**4804.016**	**351 600 494**	0.195	30	45	35
20	**4804.020**	**351 600 495**	0.160	30	45	35
26	**4804.026**	**351 600 489**	0.160	30	45	35



JRG Sanipex MT Expansion mandrel aluminium For ML pipe

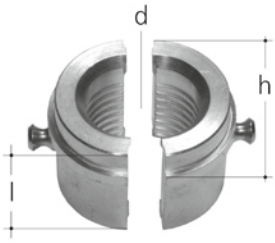
- Material: aluminium, steel

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

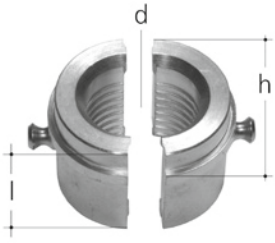
	d (mm)	JRG Code	GF Code	Weight (kg)	b (mm)	l (mm)
16-20-25-26-32		**4805.000**	**351 600 507**	2.190	150	470



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

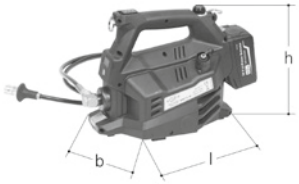
d (mm)	JRG Code	GF Code	Weight (kg)	l (mm)	b (mm)	h (mm)
16	**4809.116**	**351 600 804**	1.200	137	95	121
20	**4809.120**	**351 600 805**	1.200	137	95	121
26	**4809.126**	**351 600 806**	1.200	137	95	121
32	**4809.132**	**351 600 807**	1.200	137	95	121
40	**4809.140**	**351 600 808**	1.400	174	108	124



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

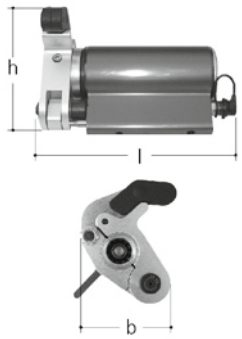
d-d-d (mm)	JRG Code	GF Code	Weight (kg)	l (mm)	b (mm)	h (mm)
16 - 32	**4828.005**	**351 600 006**	2.200	500	125	420



JRG Sanipex MT Hydraulic toolkit empty plastic d16 - d40

- Description: to 4815
- Material: plastic

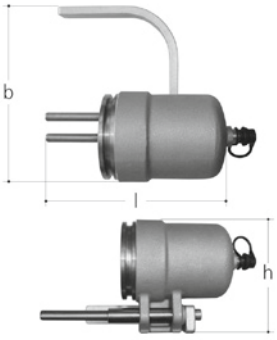
d (mm)	JRG Code	GF Code	Weight (kg)	b (mm)	b1 (mm)	l (mm)
16 - 40	**4828.001**	**351 600 002**	4.100	423	170	574



JRG Sanipex MT Expansion unit aluminium For ML pipe

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

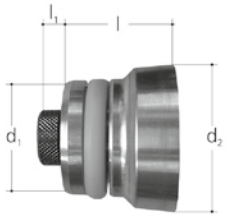
d (mm)	JRG Code	GF Code	Weight (kg)	b (mm)	l (mm)
26	**4830.026**	**351 626 008**	2.250	99	196
32	**4830.032**	**351 632 008**	2.550	99	201
40	**4830.040**	**351 640 008**	3.650	107	222



JRG Sanipex MT Operating cylinder aluminium For ML pipe

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

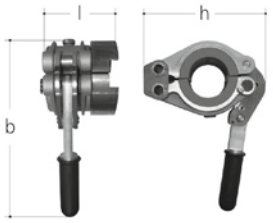
d (mm)	JRG Code	GF Code	Weight (kg)	b (mm)	h (mm)	l (mm)
50 - 63	**4831.000**	**351 600 628**	2.370	201	130	244



JRG Sanipex MT Expansion mandrel aluminium For ML pipe

- Description: to 4831.000
- Material: aluminium

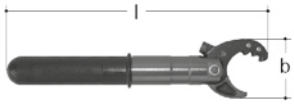
d (mm)	JRG Code	GF Code	Weight (kg)	d1 (mm)	d2 (mm)	l (mm)	l1 (mm)
50	**4831.350**	**351 650 108**	0.100	40	52	40	11
63	**4831.363**	**351 663 108**	0.200	52	65	37	11



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



Marking pen wood

- Material: wood
- Colour: yellow

For iFIT, INSTAFLEX, JRG Sanipex, JRG Sanipex MT

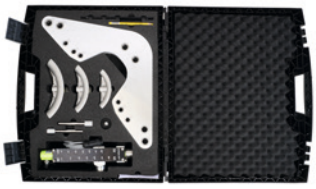
JRG Code	GF Code	Weight (kg)
4838.000	**351 600 027**	0.008



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



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

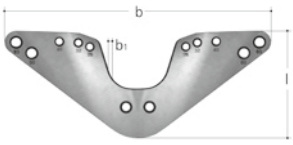
d (mm)	JRG Code	GF Code	Weight (kg)	l (mm)	b (mm)	h (mm)
26 - 40	**4851.050**	**351 600 004**	15.880	665	250	562



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

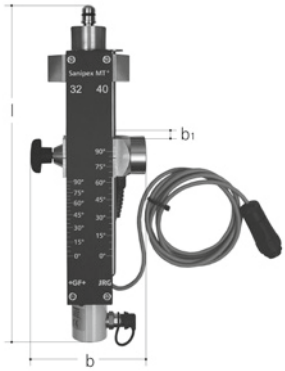
d (mm)	JRG Code	GF Code	Weight (kg)	l (mm)	b (mm)	h (mm)
50 + 63	**4851.100**	**352 920 372**	7.800	665	250	562



JRG Sanipex MT Bending base plate aluminium

- Material: aluminium

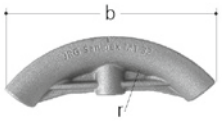
d (mm)	JRG Code	GF Code	Weight (kg)	b (mm)	b1 (mm)	l (mm)
26 - 63	**4854.000**	**352 920 911**	5.000	628	30	273



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



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

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

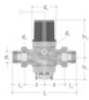
Dimensions range
DN15 – DN100

Jointing technology
Threads, flanges and direct system connections

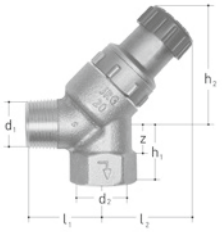
Operating pressure
Up to 25 bar

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
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	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



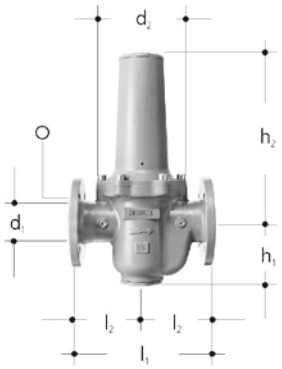
JRGARANT safety valve gunmetal

- 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

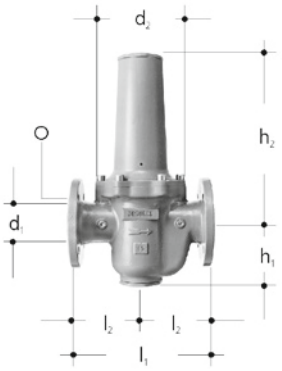
Pressure reducing valves



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

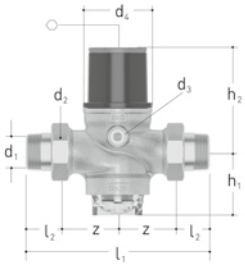
DN (mm)	JRG Code	GF Code	Weight (kg)	d1 (mm)	d2 (mm)	h1 (mm)	h2 (mm)	l1 (mm)	l2 (mm)	PN (bar)	○
65	**1140.065**	**350 542 301**	32.000	65	187	128	340	290	145	16	4
80	**1140.080**	**350 542 401**	40.000	80	217	144	405	310	155	16	8
100	**1140.100**	**350 542 501**	55.000	100	257	166	465	350	175	16	8



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

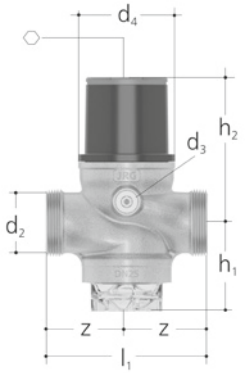


JRGURED pressure reducing valve gunmetal - new

- 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



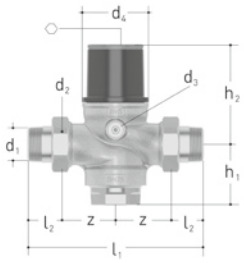
JRGURED pressure reducing valve gunmetal - new

- 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

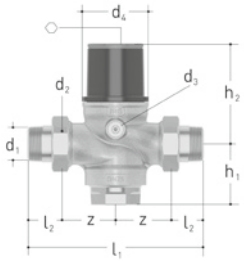


JRGURED pressure reducing valve gunmetal - new

- 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

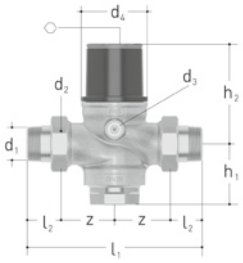
- Temperature: max. 70°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Factory setting: 200 kPa (2 bar)
- Secondary pressure: 50 - 200 kPa (0.5 - 2 bar)
- Connection: manometer
- Consisting of: unions

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



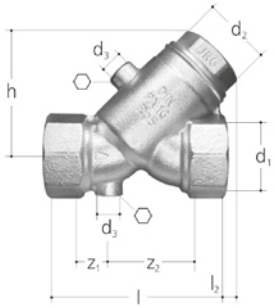
JRGURED pressure reducing valve gunmetal - new

- 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



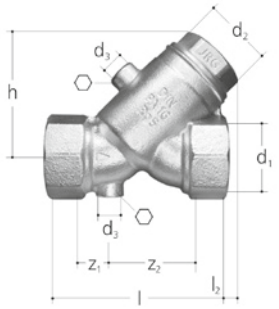
JRG Check valve gunmetal

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

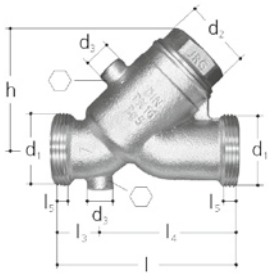
DN (mm)	GN (inch)	Size (inch)	JRG Code	GF Code	Weight (kg)
15	½	½	**1610.240**	**350 896 257**	0.326
20	¾	¾	**1610.320**	**350 896 258**	0.390
25	1	1	**1610.400**	**350 896 259**	0.814
32	1 ¼	1 ¼	**1610.480**	**350 896 260**	1.090
40	1 ½	1 ½	**1610.560**	**350 896 261**	1.200
50	2	2	**1610.640**	**350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

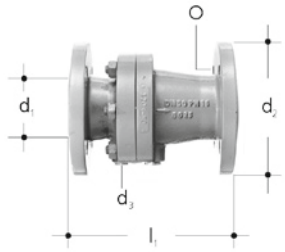


JRG Check valve gunmetal

- 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

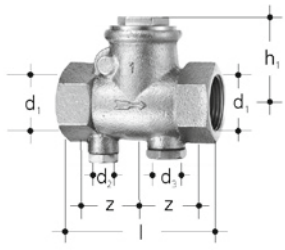


JRG Check valve gray cast iron

- 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

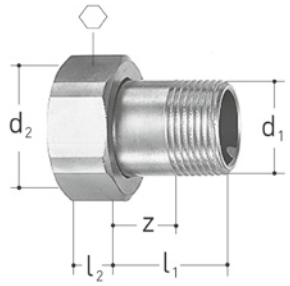


JRG Swing check valve gunmetal

- 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

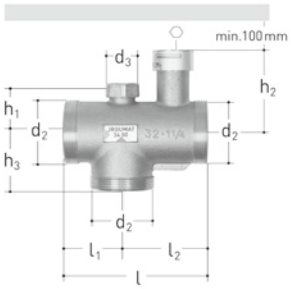
Spare parts



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

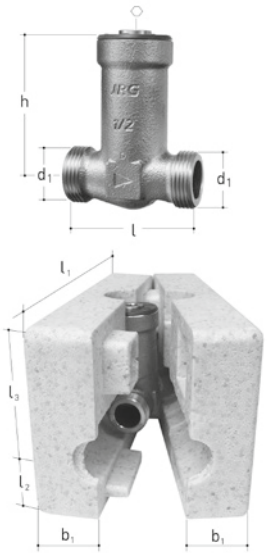


JRGUMAT Thermostatic mixing valve gunmetal Flanged

- 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

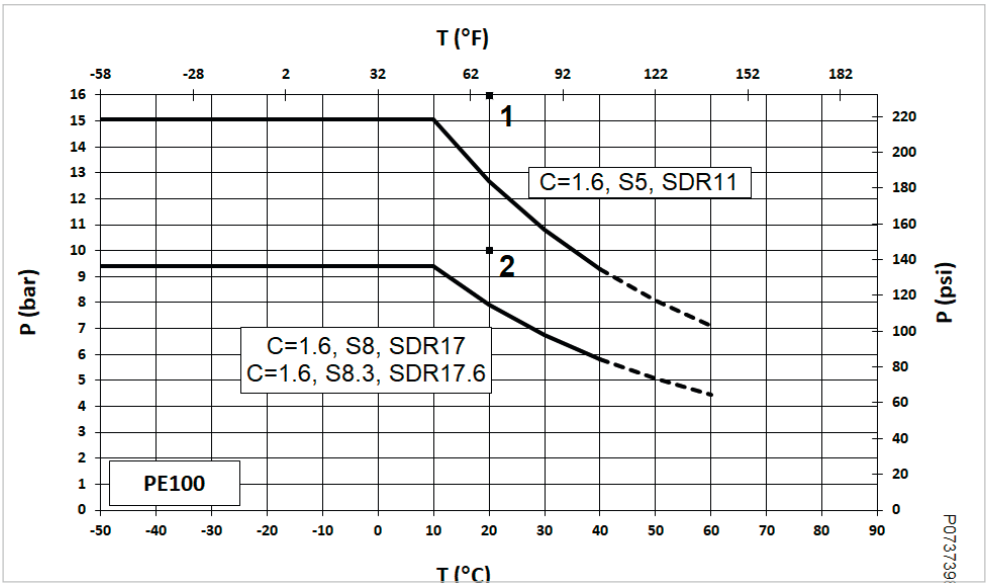
The following pressure-temperature diagram for PE100 pipe and fittings is valid for a service life of 25 years.

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.

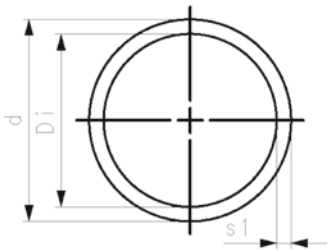


1 Design factor C = 1.25, S5, SDR11 for 20 °C water, 50 years
2 Design factor C = 1.25, S8.3, SDR17.6 and S8, SDR17 for 20 °C water, 50 years
P Permissible pressure (bar, psi)
T Temperature (°C, °F)

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ecoFIT pipes





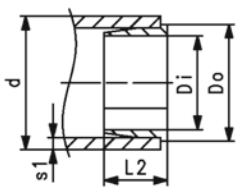
ecoFIT pipe PE100
SDR11 / PN16 / S5

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





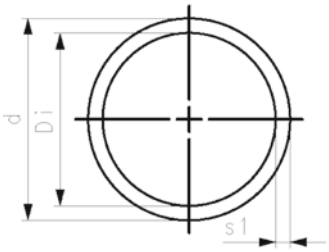
ecoFIT Stiffener PE100
d20-25mm

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.

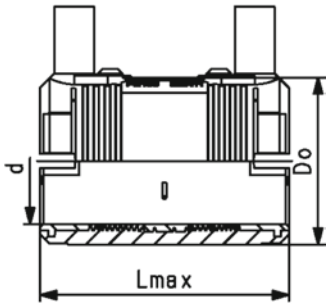
Inflation surcharges for pipes are possible, they follow the current purchase of materials price.

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



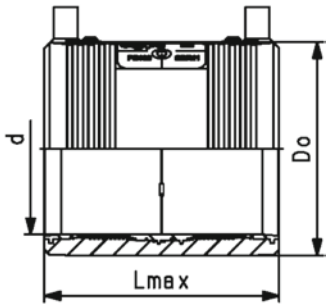


ELGEF Plus Electrofusion coupler PE100 d20-63mm / SDR11

- 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





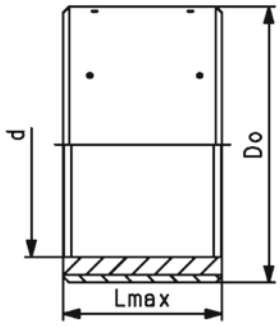
ELGEF Plus Electrofusion coupler PE100 d75-315mm / SDR11

- 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





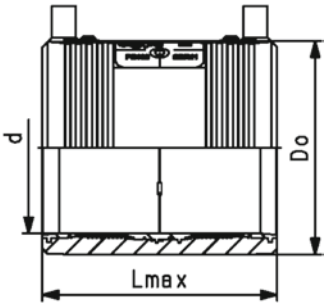
ELGEF Plus Electrofusion coupler PE100
d355-800mm / SDR11

- 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

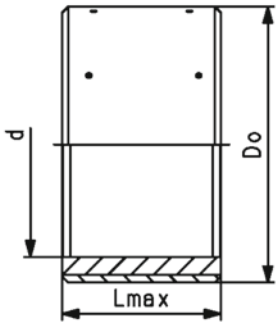
- 5 bar Gas / 10 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- d160 with removable centre stop

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)



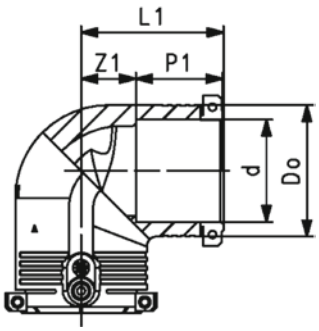
d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	Do (mm)	Lmax (mm)	SDR pipe
355	350	10	**753 911 804**	9.522	416	291	17-33
400	400	10	**753 911 805**	13.000	467	295	17-33
450	450	10	**753 911 806**	18.000	526	327	17-33
500	500	10	**753 911 807**	22.000	584	358	17-41
560	600	10	**753 911 808**	34.000	647	396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

Elbows



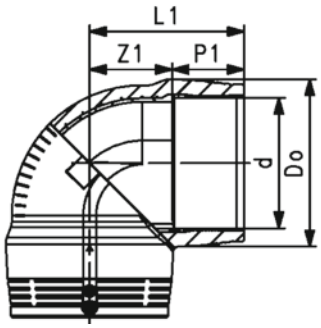
ELGEF Plus Elbow 90° PE100
d20-63mm / SDR11

- 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



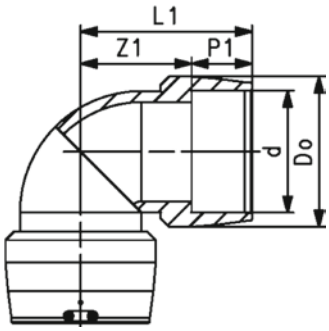


ELGEF Plus Elbow 90° PE100
d75-180mm / SDR11

- 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



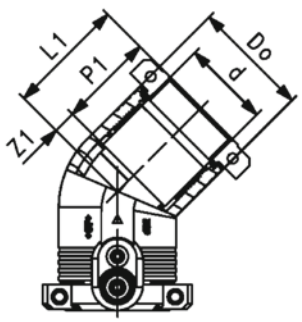


ELGEF Plus Elbow 90° PE100
d200-250mm / SDR11

- 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



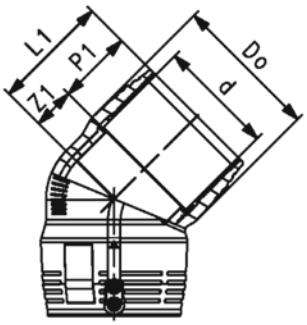


ELGEF Plus Elbow 45° PE100
d32-63mm / SDR11

- 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



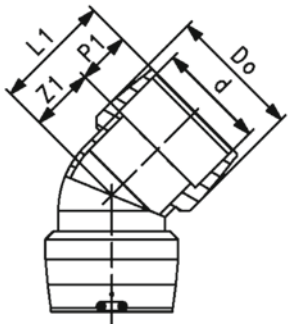


ELGEF Plus Elbow 45° PE100
d75-180mm / SDR11

- 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



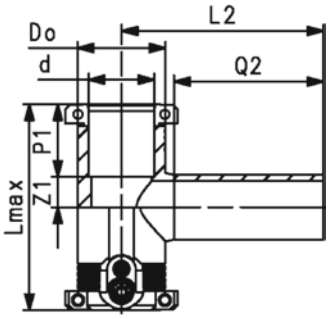


ELGEF Plus Elbow 45° PE100
d200-250mm / SDR11

- 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



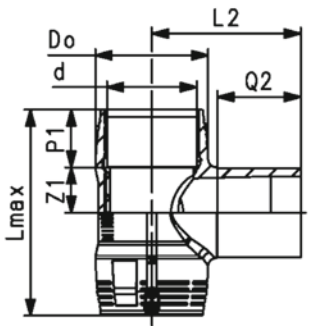


ELGEF Plus Tee 90° PE100
d20-63mm / SDR11

- 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



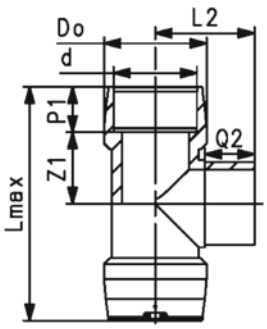


ELGEF Plus Tee 90° PE100
d75-180mm / SDR11

- 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



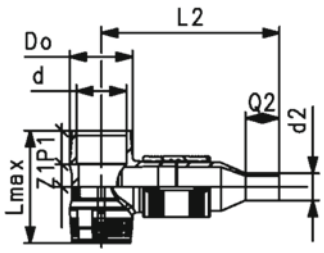


ELGEF Plus Tee 90° PE100
d200-250mm / SDR11

- 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



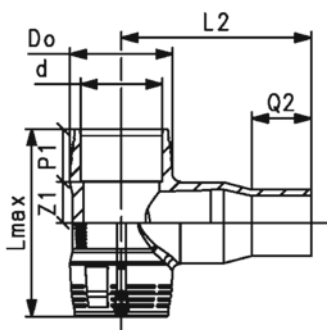


ELGEF Plus Tee 90° reduced (kit) PE100
d25-180mm / SDR11

- 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





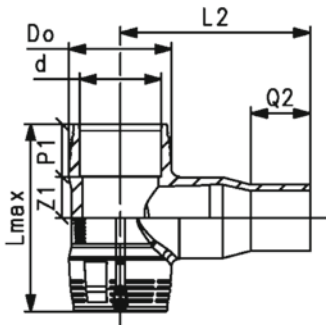
ELGEF Plus Tee 90° reduced PE100
d90-250mm / SDR11

- 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

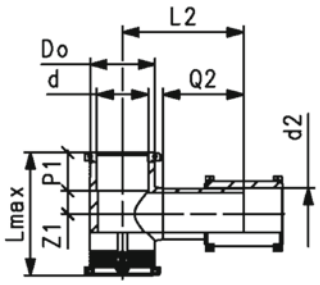
table continued on the next page



	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

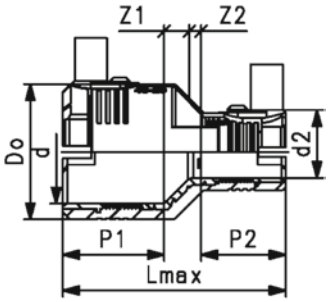
d (mm)	d2 (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	Do (mm)	L2 (mm)	Lmax (mm)	P1 (mm)	Z1 (mm)	Q2 (mm)
20	20	15	16	**753 201 606**	0.161	35	92	90	34	11	67
25	25	20	16	**753 201 607**	0.122	35	92	90	34	11	70
32	32	25	16	**753 201 608**	0.201	44	100	102	36	15	74
40	32	32	16	**193 281 006**	0.288	54	127	120	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

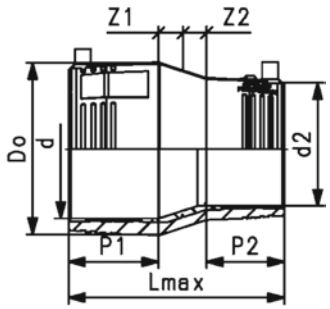


d (mm)	d2 (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	Do (mm)	Lmax (mm)	P1 (mm)	P2 (mm)	Z1 (mm)	Z2 (mm)	SDR pipe
25	20	20	16	**753 901 639**	0.051	35	74	34	34	3.0	3.0	9-11
32	20	25	16	**753 901 640**	0.056	44	79	36	33	5.0	5.0	9-11
32	25	25	16	**753 901 641**	0.062	44	79	36	33	5.0	5.0	9-11
40	20	32	16	**753 901 644**	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

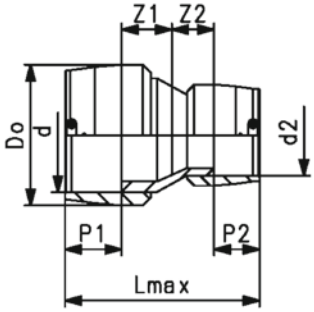


d (mm)	d2 (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	Do (mm)	Lmax (mm)	P1 (mm)	P2 (mm)	Z1 (mm)	Z2 (mm)	SDR pipe
90	63	80	16	**753 901 831**	0.385	113	146	63	47	18.0	18.0	9-11
110	63	100	16	**753 901 832**	0.644	140	184	71	58	27.5	27.5	9-11
110	90	100	16	**753 901 833**	0.700	138	173	73	63	19.0	19.0	9-17.6
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

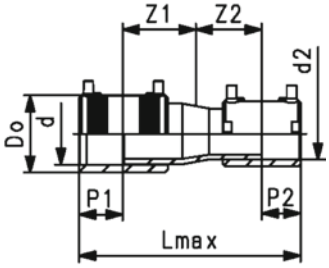


d (mm)	d2 (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	Do (mm)	Lmax (mm)	P1 (mm)	P2 (mm)	Z1 (mm)	Z2 (mm)	SDR pipe
200	160	200	16	**753 901 837**	5.098	250	365	104	90	85.5	85.5	11-26
225	160	200	16	**753 901 838**	6.000	280	385	112	90	91.5	91.5	11-26
225	200	200	16	**753 901 845**	8.200	280	390	112	104	86.5	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



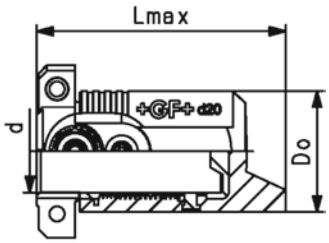
d (mm)	d2 (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	Do (mm)	Lmax (mm)	P1 (mm)	P2 (mm)	Z1 (mm)	Z2 (mm)
75	40	65	16	**193 280 992**	0.574	96	265	55	40	85.0	85.0
75	50	65	16	**193 280 993**	0.623	96	269	55	44	85.0	85.0
75	63	65	16	**193 280 994**	0.700	96	273	55	48	85.0	85.0
90	50	80	16	**193 280 958**	0.857	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



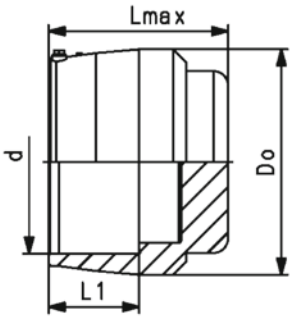
ELGEF Plus End cap PE100
d20-63mm / SDR11

- 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



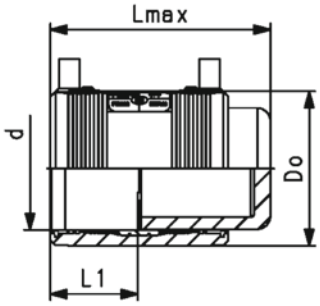


ELGEF Plus End cap PE100
d160-250mm / SDR11

- 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

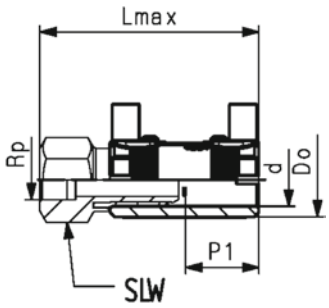
d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	Do (mm)	L1 (mm)	Lmax (mm)
75	65	16	**753 961 712**	0.446	96	53	135
90	80	16	**753 961 713**	0.663	113	60	153
110	100	16	**753 961 714**	1.090	133	70	171
125	100	16	**753 961 715**	1.345	155	75	184
140	125	16	**753 961 716**	2.250	175	80	170
160	150	16	**753 961 717**	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

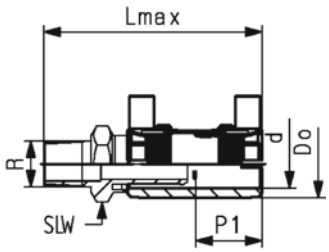


d (mm)	Thread Type	Size (inch)	DN (mm)	PN (bar)	Code	Weight (kg)	Do (mm)	Lmax (mm)	P1 (mm)	SLW (mm)	SDR pipe
20	Rp	½	15	16	**724 920 256**	0.179	31	100	34	30	9-11
25	Rp	¾	20	16	**724 920 257**	0.231	36	101	34	35	9-11
32	Rp	1	25	16	**724 920 258**	0.319	44	108	34	40	9-11
40	Rp	1 ¼	32	16	**724 920 259**	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

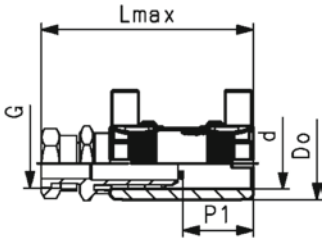


d (mm)	Thread Type	Size (inch)	DN (mm)	PN (bar)	Code	Weight (kg)	Do (mm)	Lmax (mm)	P1 (mm)	SLW (mm)	SDR pipe
20	R	½	15	16	**724 920 756**	0.165	31	110	34	30	9-11
25	R	¾	20	16	**724 920 757**	0.249	36	111	34	35	9-11
32	R	1	25	16	**724 920 758**	0.332	44	117	34	40	9-11
40	R	1 ¼	32	16	**724 920 759**	0.464	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)

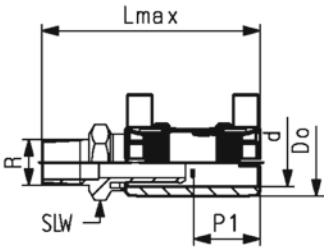


d (mm)	Thread Type	Size (inch)	DN (mm)	PN (bar)	Code	Weight (kg)	Do (mm)	Lmax (mm)	P1 (mm)	G (mm)	SDR pipe
25	G	¾	20	16	**720 910 007**	0.232	36	104	34	15	9-11
32	G	1	25	16	**720 910 008**	0.297	44	110	34	20	9-11
50	G	1 ½	40	16	**720 910 010**	0.736	66	133	43	29	9-11
63	G	2	50	16	**720 910 011**	1.251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

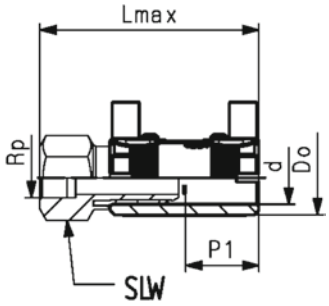


d (mm)	Thread Type	Size (inch)	DN (mm)	PN (bar)	Code	Weight (kg)	Do (mm)	Lmax (mm)	P1 (mm)	SLW (mm)	SDR pipe
20	R	½	15	16	**720 920 756**	0.187	31	110	34	30	9-11
20	R	1	15	16	**720 920 754**	0.344	44	124	34	40	9-11
25	R	¾	20	16	**720 920 757**	0.254	36	111	34	35	9-11
25	R	1	20	16	**720 920 763**	0.340	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

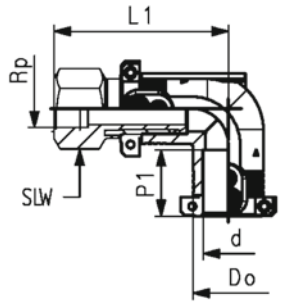


d (mm)	Thread Type	Size (inch)	DN (mm)	PN (bar)	Code	Weight (kg)	Do (mm)	Lmax (mm)	P1 (mm)	SLW (mm)
32	Rp	1	25	16	**720 920 258**	0.306	44	108	34	40
40	Rp	1 ¼	32	16	**720 920 259**	0.496	54	118	39	50
50	Rp	1 ½	40	16	**720 920 260**	0.725	66	126	43	60
63	Rp	1	50	16	**720 920 281**	1.300	81	138	46	70
63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

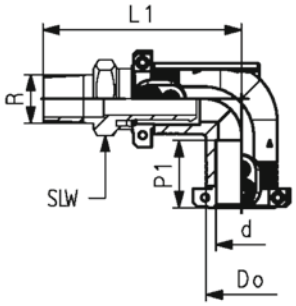


d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	Do (mm)	L1 (mm)	P1 (mm)	SLW (mm)	SDR pipe
20	15	Rp	½	16	**724 100 256**	0.211	31	86	32	30	9-11
25	20	Rp	¾	16	**724 100 257**	0.237	36	87	32	35	9-11
32	25	Rp	1	16	**724 100 258**	0.320	44	89	34	40	9-11
40	32	Rp	1 ¼	16	**724 100 259**	0.545	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

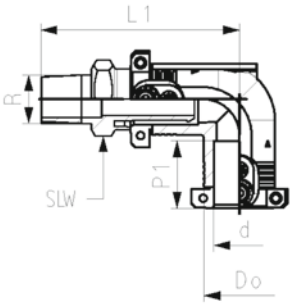


d (mm)	Thread Type	Size (inch)	DN (mm)	PN (bar)	Code	Weight (kg)	Do (mm)	L1 (mm)	P1 (mm)	SLW (mm)	SDR pipe
20	R	½	15	16	**724 100 756**	0.211	31	96	32	30	9-11
25	R	¾	20	16	**724 100 757**	0.230	36	97	32	35	9-11
32	R	1	25	16	**724 100 758**	0.324	44	98	34	40	9-11
40	R	1 ¼	32	16	**724 100 759**	0.560	54	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

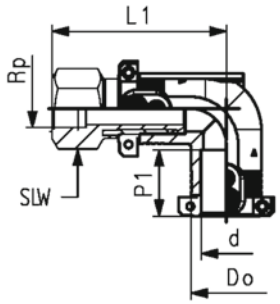


d (mm)	Thread Type	Size (inch)	DN (mm)	PN (bar)	Code	Weight (kg)	Do (mm)	L1 (mm)	P1 (mm)	SLW (mm)	SDR pipe
20	R	½	15	16	**720 100 756**	0.240	31	96	32	30	9-11
25	R	¾	20	16	**720 100 757**	0.260	36	97	32	35	9-11
32	R	1	25	16	**720 100 758**	0.368	44	98	34	40	9-11
32	R	1 ¼	25	16	**720 100 766**	0.500	44	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

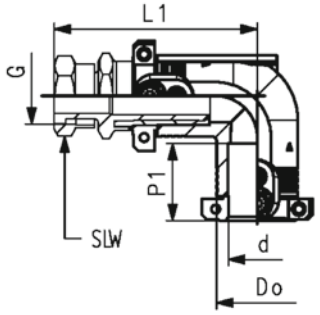


- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit



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

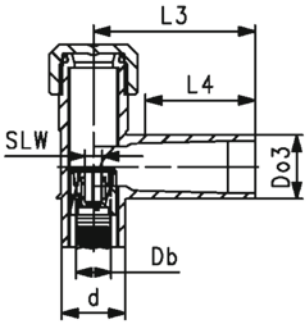


Marker

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

ELGEF Plus saddles
Modular system





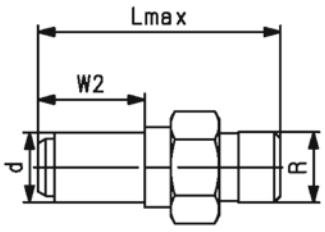
ELGEF Plus Tapping tee PE100
d63mm / SDR11

- 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

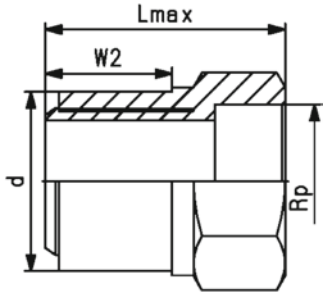
- 10 bar Gas / 16 bar Water
- Only for ELGEF Plus Couplers and Fittings

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

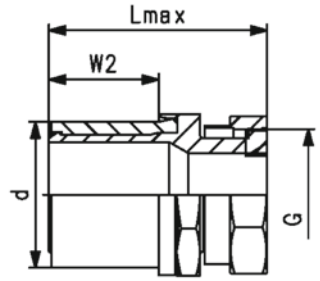


d (mm)	Thread Type	Rp (inch)	DN (mm)	PN (bar)	Code	Weight (kg)	Lmax (mm)	W2 (mm)
25	Rp	¾	20	16	**720 920 207**	0.181	66	33
32	Rp	1	25	16	**720 920 208**	0.246	71	35
40	Rp	1 ¼	32	16	**720 920 209**	0.386	77	39
50	Rp	1 ½	40	16	**720 920 210**	0.520	81	43
63	Rp	1	50	16	**720 920 221**	0.780	83	47
63	Rp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

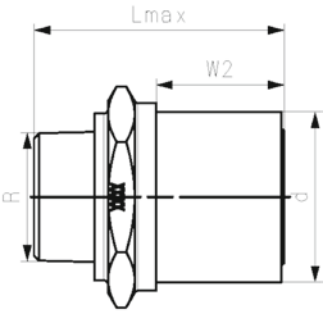


d (mm)	Thread Type	Size (inch)	DN (mm)	PN (bar)	Code	Weight (kg)	Lmax (mm)	G (mm)	W2 (mm)
25	G	¾	20	16	**720 920 007**	0.152	68	15	32
32	G	1	25	16	**720 920 008**	0.235	72	20	34
50	G	1 ½	40	16	**720 920 010**	0.584	87	29	42
63	G	1	50	16	**720 920 021**	0.804	87	20	46
63	G	2	50	16	**720 920 011**	1.018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



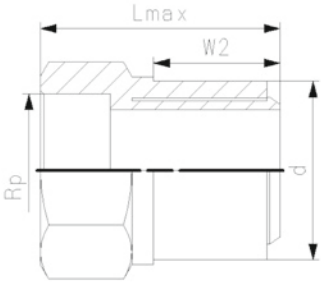
ELGEF Plus Transition adapter PE/stainless steel d20-63mm / SDR11 / Male thread R

- 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



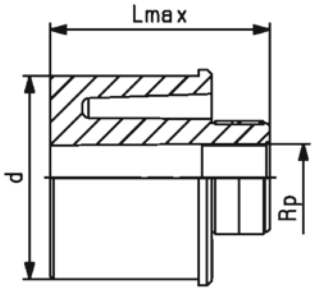


ELGEF Plus Transition adapter PE/stainless steel d20-63mm / SDR11 / Female thread Rp

- 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



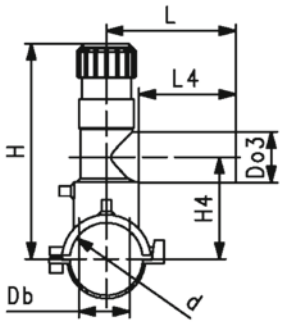


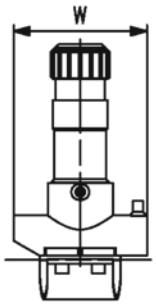
ELGEF Plus Adapter PE100 d63mm / SDR11 / Female thread Rp

- 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







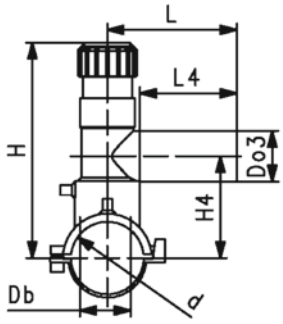
ELGEF Plus Tapping saddle PE100
d63-400mm/ SDR11 / With 360° rotatable outlet

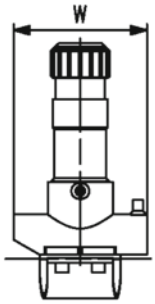
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring-sealed screw cap
- d355-400mm. Not suitable for pipes if wall thickness is larger than SDR17 pipes.

* 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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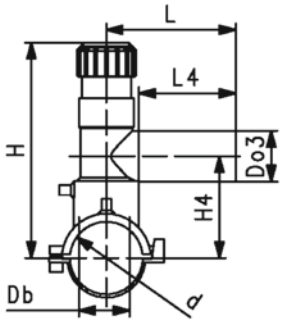


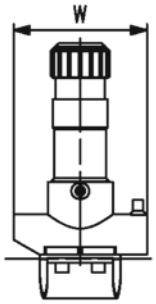


	d (mm)	Do3 (mm)	DN (mm)	PN (bar)	Code	Weight (kg)
	225	32	200	16	**193 131 524**	1.019
	225	40	200	16	**193 131 525**	1.029
	225	63	200	16	**193 131 527**	1.738
	250	20	250	16	**193 131 532**	1.025
	250	25	250	16	**193 131 533**	1.026
	250	32	250	16	**193 131 534**	0.996
	250	63	250	16	**193 131 537**	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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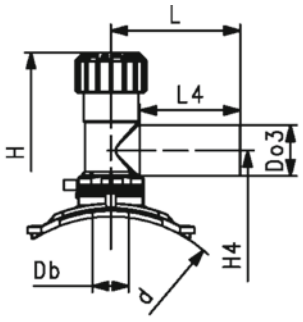
	d (mm)	Do3 (mm)	L (mm)	L4 (mm)	Db (mm)	W (mm)	H (mm)	H4 (mm)	SDR pipe
	225	40	137	81	32	164	266	188	11 - 26
	225	63	160	100	35	164	315	193	11 -26
	250	20	130	76	32	164	279	201	11 - 26
	250	25	130	76	32	164	279	201	11 - 26
	250	32	130	76	32	164	279	201	11 - 26
	250	63	160	100	35	164	328	206	11 - 26
	250	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

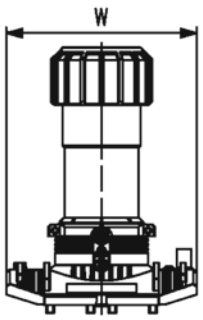


ELGEF Plus Tapping saddle PE100
d315-400mm / SDR11 / With 360° rotatable outlet

- 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

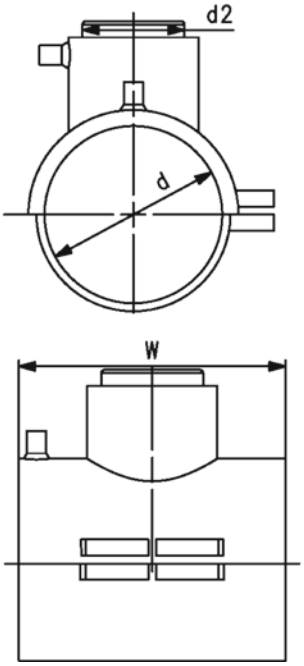
L (mm)	L4 (mm)	Db (mm)	W (mm)	H (mm)	H4 (mm)	SDR pipe
160	100	33	164	328	206	11 - 33
160	100	33	165	328	206	11 - 33
160	100	33	165	328	206	11 - 33



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

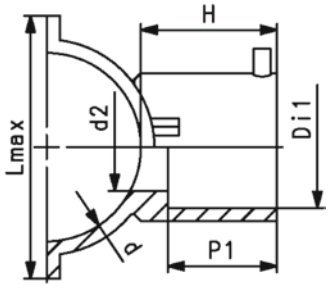


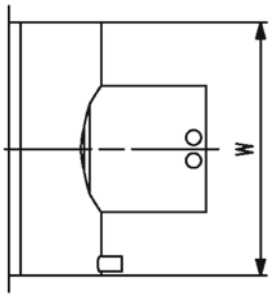
ELGEF Plus Cross connection
d110-250mm / For connection of 2 branch saddles as a cross

- 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



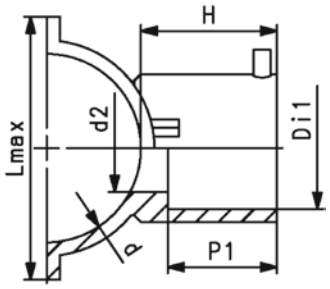
ELGEF Plus Multiple use assembly tool branch saddle PE100
d140mm

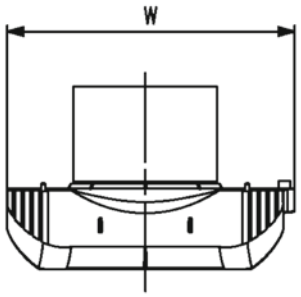
- Only to be used with Branch Saddle d140mm
- Delivered as complete Kit including screws and belt

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

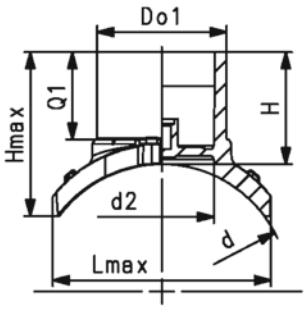
- 10 bar Gas / 16 bar Water
- Branch Saddle for assembling as Topload with tool 799.350.477; angle adaptors (799.350.340) for fusion cable required
- Electrofusion outlet with integrated pipe fixation
- Protected wire without medium contact
- 4 mm pin connectors
- Limited path fusion indicators

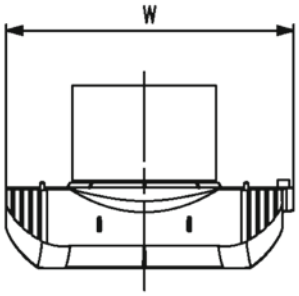
* FM 1613 approved - 15 bar

	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



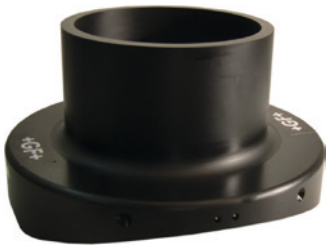




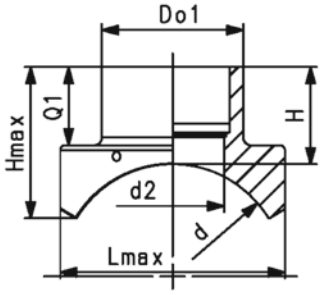
ELGEF Plus Branch saddle topload PE100
d315-1000mm / SDR11 / Outlet d160-d225 mm

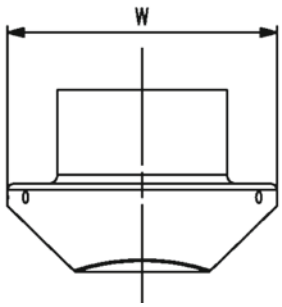
- 10 bar Gas / 16 bar Water
- Branch Saddle installation only with installation set Topload TL225 (799.300.807)
- Angle adaptors (799.350.340) for fusion cable required
- 4 mm pin connectors
- Limited path fusion indicators
- Spigot outlet for butt- and electrofusion
- Full pressure applicable - no derating 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



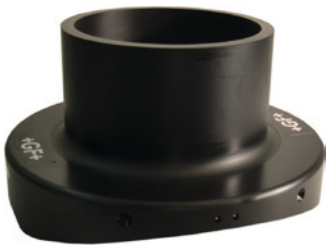
ELGEF Plus Branch saddle topload PE100
d450-1000mm / SDR11 / Outlet d315 mm



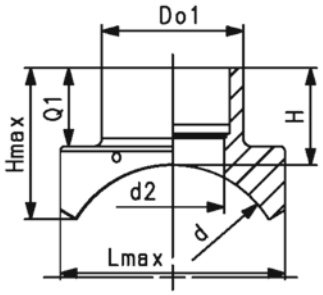


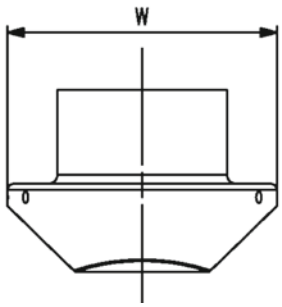
- 10 bar Gas / 16 bar Water
- Branch saddle installation only with installation set Toploaad TL500 (799.300.809)
- Angle adaptors (799.350.340) for fusion cable required
- 4 mm pin connectors
- Spigot outlet for butt- and electrofusion
- Full pressure applicable - no derating factor
- With integrated 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





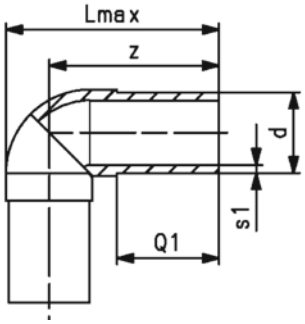
- 5 bar Gas / 10 bar Water
- Angle adaptors (799.350.340) for fusion cable required
- Branch saddle installation only with installation set Toploaad TL500 (799.300.809)
- 4 mm pin connectors
- Spigot outlet for butt- and electrofusion
- Full pressure applicable - no derating factor
- With integrated 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





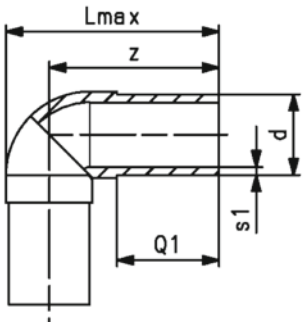
ELGEF Plus Elbow 90° PE100
d20-315mm / SDR11 / Long version

- 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





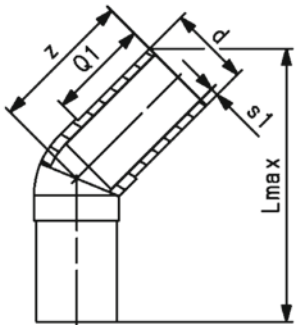
ELGEF Plus Elbow 90° PE100
d90-315mm / SDR17 / Long version

- 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





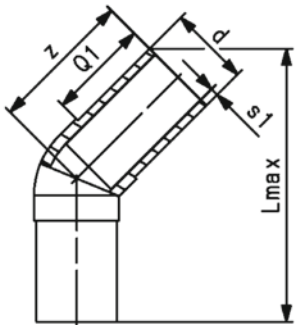
- 10 bar Gas / 16 bar Water

* 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

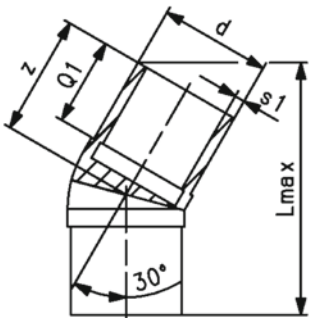




- 5 bar Gas / 10 bar Water

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



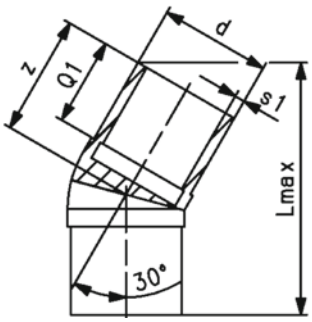


ELGEF Plus Elbow 30° PE100
d32-315mm / SDR11 / Long version

- 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



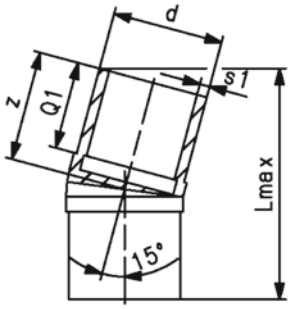


ELGEF Plus Elbow 30° PE100
d90-315mm / SDR17 / Long version

- 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



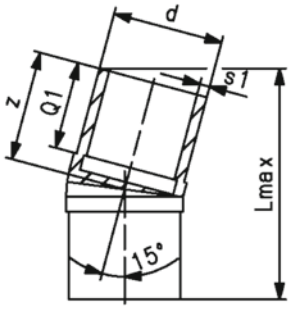


ELGEF Plus Elbow 15° PE100
d32-315mm / SDR11 / Long version

- 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





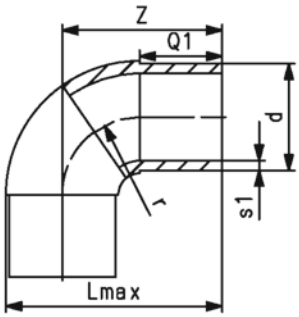
ELGEF Plus Elbow 15° PE100
d90-315mm / SDR17 / Long version

- 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



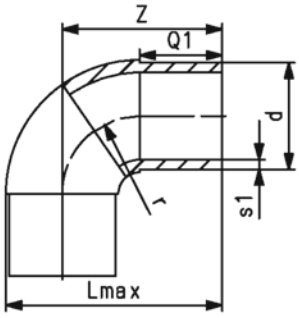


ELGEF Plus Bend 90° PE 100
d32-500mm / SDR11 / Long version

- 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



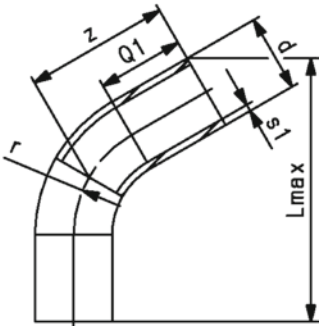


ELGEF Plus Bend 90° PE 100
d90-500mm / SDR17 / Long version

- 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



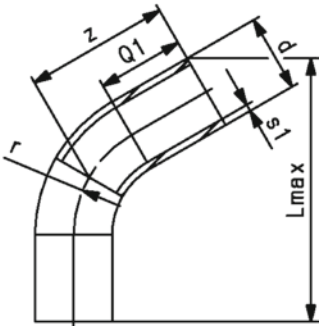


ELGEF Plus Bend 60° PE100
d32-900mm / SDR11 / Long version

- 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



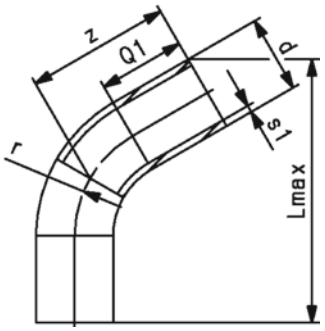


ELGEF Plus Bend 60° PE100
d90-1000mm / SDR17 / Long version

- 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



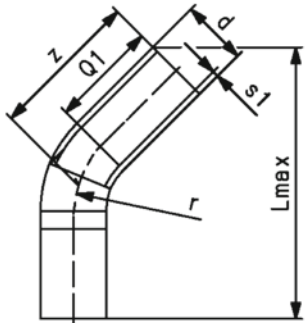
d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	Lmax (mm)	Q1 (mm)	r (mm)	s1 (mm)	z (mm)
710	700	10	**753 070 830**	213.000	1657.4	400	1065	42.1	900
800	800	10	**753 070 831**	260.700	1771.4	400	1200	47.4	950
900	900	10	**753 070 832**	385.500	2114.7	450	1350	53.3	1150
1000	1000	10	**753 070 833**	507.600	2233.0	450	1500	59.3	1200



ELGEF Plus Bend 45° PE100
d32-900mm / SDR11 / Long version

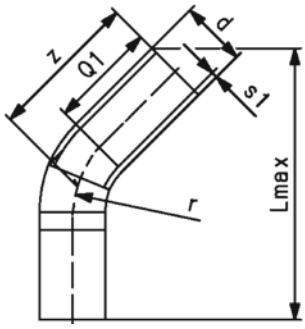
- 16 bar Water
- Made out of seamless pipe
- Bends made out of seamless pipe shall not be shortened
- Radius 1.5 x d

* 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



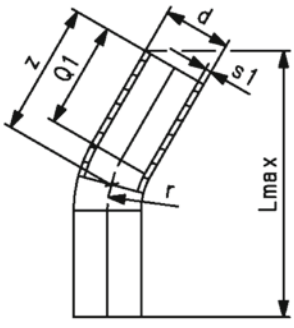


ELGEF Plus Bend 45° PE100
d90-1000mm / SDR17 / Long version

- 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



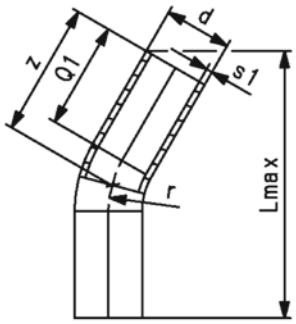


ELGEF Plus Bend 30° PE100
d32-900mm / SDR11 / Long version

- 16 bar Water
- Made out of seamless pipe
- Bends made out of seamless pipe shall not be shortened
- Radius 1.5 x d

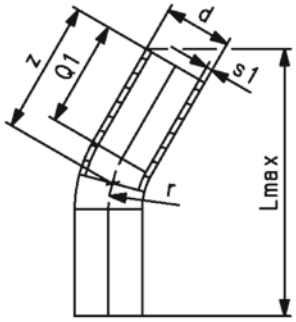
d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	Lmax (mm)	Q1 (mm)	r (mm)	s1 (mm)	z (mm)
32	25	16	**753 061 008**	0.077	218.9	80	48	2.9	113
40	32	16	**753 061 009**	0.120	226.5	80	60	3.7	116
50	40	16	**753 061 010**	0.200	273.7	100	75	4.6	140
63	50	16	**753 061 011**	0.400	295.7	100	95	5.8	150
75	65	16	**753 061 012**	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



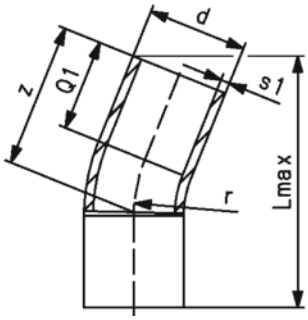


ELGEF Plus Bend 30° PE100
d90-1000mm / SDR17 / Long version

- 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



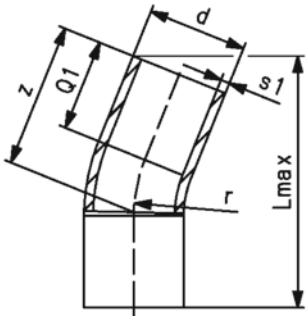


ELGEF Plus Bend 22° PE100
d32-900mm / SDR11 / Long version

- 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



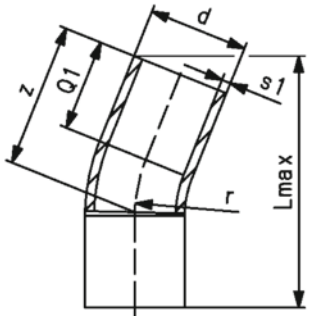


ELGEF Plus Bend 22° PE100
d32-900mm / SDR17 / Long version

- 10 bar Water
- Made out of seamless pipe
- Bends made out of seamless pipe shall not be shortened
- Radius 1.5 x d

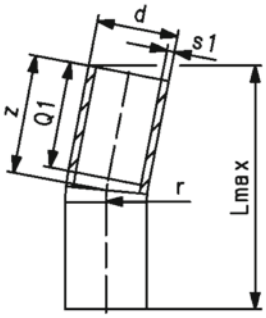
d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	Lmax (mm)	Q1 (mm)	r (mm)	s1 (mm)	z (mm)
90	80	10	**753 080 813**	0.500	325.2	100	135	5	160
110	100	10	**753 080 814**	1.060	442.7	150	165	7	219
125	100	10	**753 080 815**	1.100	457.0	150	188	7	225
140	125	10	**753 080 816**	1.720	471.4	150	210	8	231
160	150	10	**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



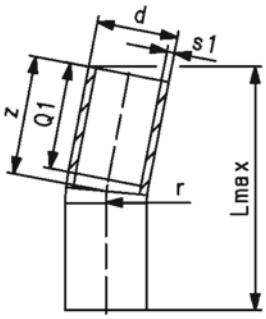


ELGEF Plus Bend 11° PE100
d32-900mm / SDR11 / Long version

- 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





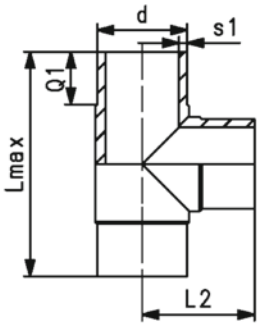
ELGEF Plus Bend 11° PE100
d90-1000mm / SDR17 / Long version

- 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

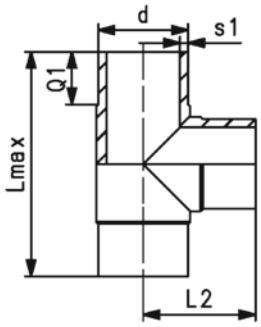
- 10 bar Gas / 16 bar Water

* Machined with welded pipes

** FM 1613 approved - PN 15

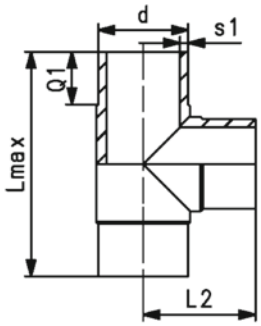
	d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	L2 (mm)	Lmax (mm)	Q1 (mm)	s1 (mm)
	20	15	16	**753 201 006**	0.038	75	150	52	3.0
	25	20	16	**753 201 007**	0.054	80	160	52	3.0
	32	25	16	**753 201 008**	0.077	85	170	54	3.0
	40	32	16	**753 201 009**	0.130	95	190	57	3.7
	50	40	16	**753 201 010**	0.214	105	210	63	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





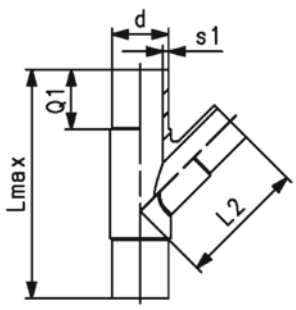
ELGEF Plus Tee 90° equal PE100
d90-800mm / SDR17 / Long version

- 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



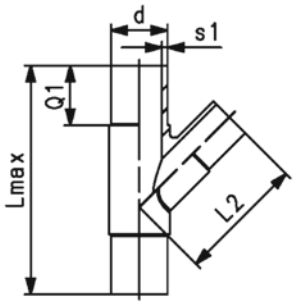


ELGEF Plus Tee 45° equal PE100
d50-110mm / SDR11 / Long version

- 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



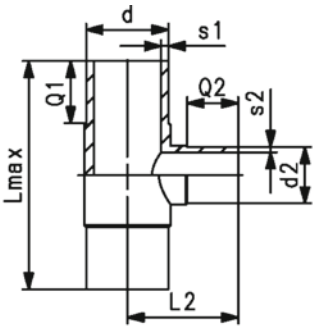


ELGEF Plus Tee 45° equal PE100
d90-110mm / SDR17 / Long version

- 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

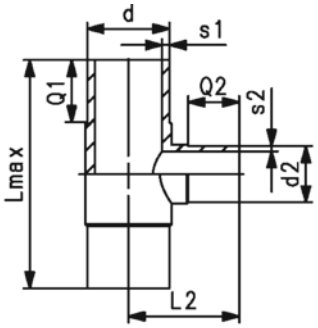
Model:

- 10 bar Gas / 16 bar Water
- Fittings are injection moulded

* FM 1613 approved - 15 bar

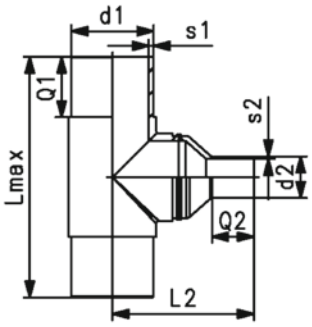
d (mm)	d2 (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	L2 (mm)	Lmax (mm)	Q1 (mm)	Q2 (mm)	s1 (mm)	s2 (mm)
63	32	50	16	**753 201 022**	0.300	86	218	65	47	5.8	3.0
63	40	50	16	**753 201 026**	0.312	107	230	67	58	5.8	3.7
63	50	50	16	**753 201 021**	0.300	100	218	65	59	5.8	4.6
75	32	65	16	**753 201 023**	0.455	98	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



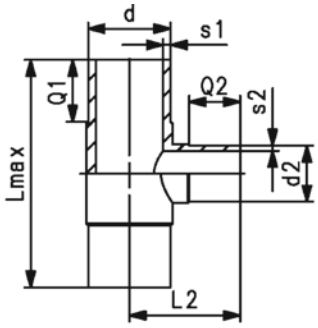


ELGEF Plus Tee 90° reduced PE100
d25-400mm / SDR11 / Welded reducer / Long version

- 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





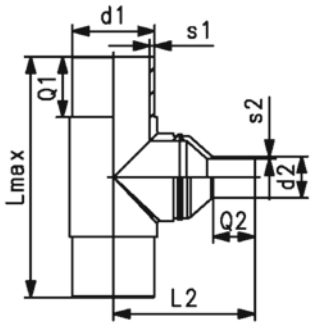
ELGEF Plus Tee 90° reduced PE100
d90-d315mm / SDR17 / Long version

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



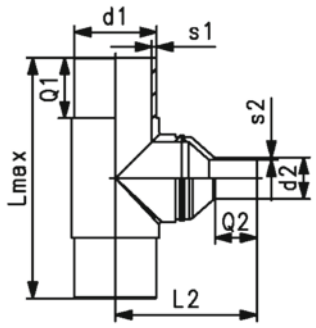


ELGEF Plus Tee 90° reduced PE100
d125-400mm / SDR17 / Welded reducer / Long version

- 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

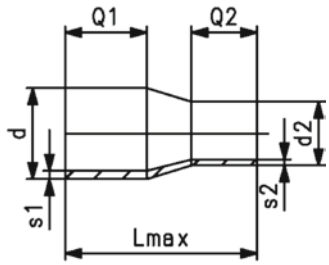


ELGEF Plus Reducer PE100
d25-630mm / SDR11 / Long version

Model:

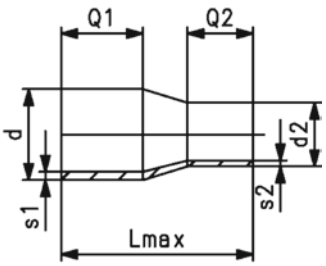
- 10 bar Gas / 16 bar Water

* FM 1613 approved - 15 bar



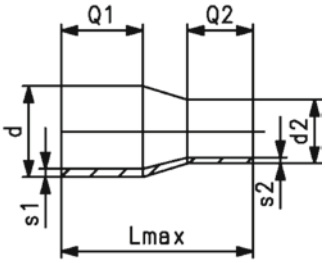
	d (mm)	d2 (mm)	DN (mm)	PN (bar)	SDR	Code	Weight (kg)	Lmax (mm)	Q1 (mm)	Q2 (mm)	s1 (mm)	s2 (mm)
	25	20	20	16	11	**753 901 038**	0.022	115	53	52	3.0	3.0
	32	20	25	16	11	**753 901 042**	0.027	122	55	53	3.0	3.0
	32	25	25	16	11	**753 901 041**	0.033	122	55	53	3.0	3.0
	40	20	32	16	11	**753 901 048**	0.043	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





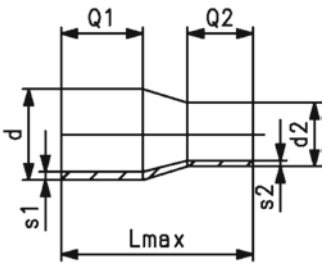
ELGEF Plus Reducer PE100
d90-d1000mm / SDR17 / Long version

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

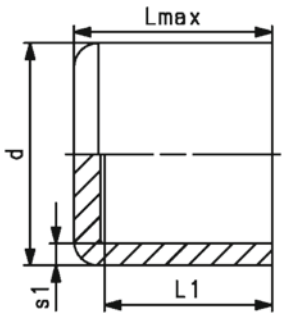
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d (mm)	d2 (mm)	DN (mm)	PN (bar)	SDR	Code	Weight (kg)	Lmax (mm)	Q1 (mm)	Q2 (mm)	s1 (mm)	s2 (mm)
630	450	600	10	17	**753 900 827**	28.210	503	250	195	37.4	26,7
630	500	600	10	17	**753 900 828**	29.920	506	250	212	37.4	29,7
630	560	600	10	17	**753 900 829**	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





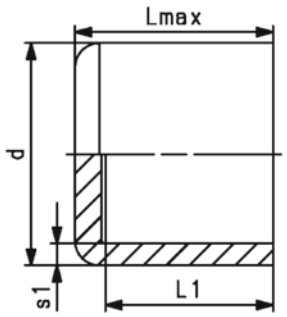
ELGEF Plus End cap PE100
d20-d630mm / SDR11 / Long version

- 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

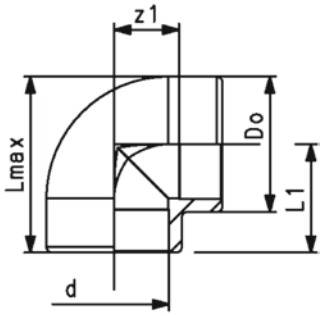
- 5 bar Gas / 10 bar Water

* 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

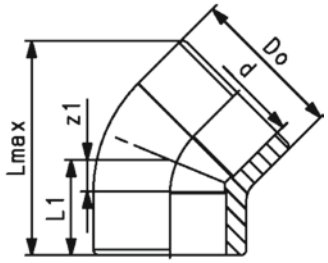




ecoFIT Elbow 90° PE80
d20-110mm

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

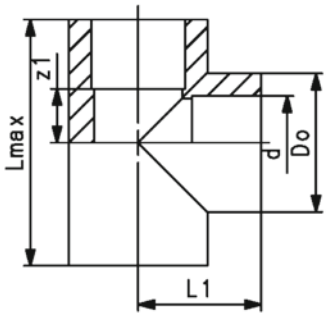




ecoFIT Elbow 45° PE80
d20-110mm

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

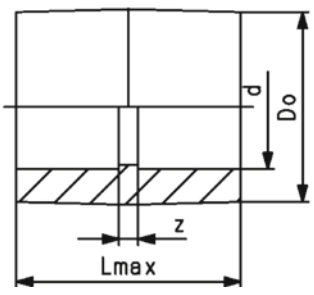




ecoFIT tee 90° equal PE80
d20-110mm

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

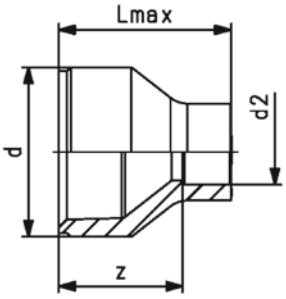


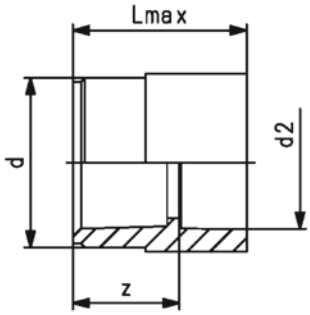


ecoFIT Socket equal PE80
d20-110mm

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





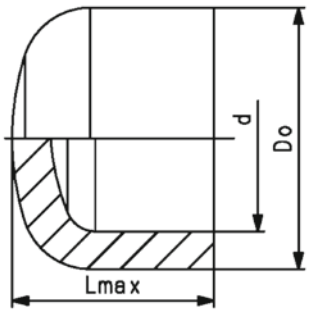


ecoFIT Reducer PE80
d25-110mm

- 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



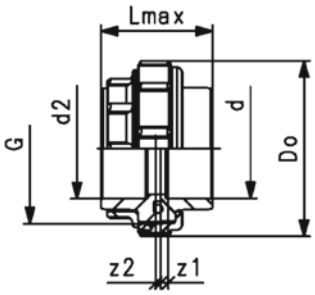


ecoFIT End cap PE80
d20-110mm

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





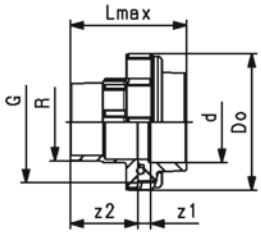
ecoFIT Adaptor union PE80
d20-63mm / brass / Female thread Rp

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





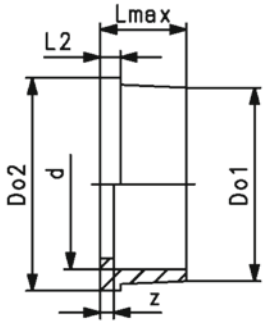
ecoFIT Adaptor union PE80
d20-63mm / brass / Male thread R

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:

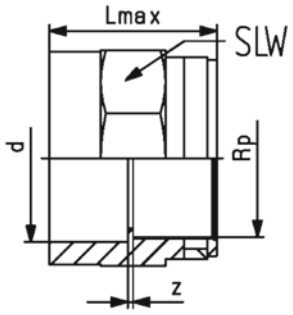
- With fusion socket metric
- Suitable for unions, tank connectors and diaphragm valves Type 514

*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





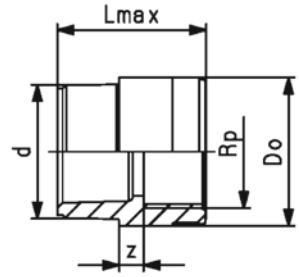
ecoFIT Adaptor socket PE80
d20-63mm / Female thread Rp

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





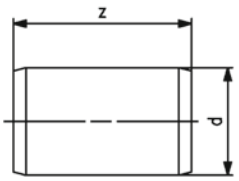
ecoFIT Reducing bush metric PE100
d20-50mm / SDR11 / Female thread Rp

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:

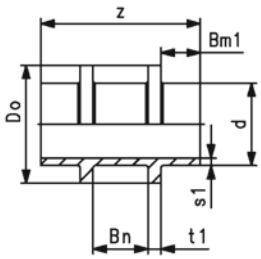
- With fusion spigots on both sides
- For the shortest possible distance between fittings

* 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





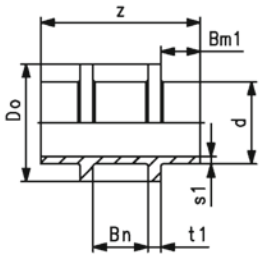
ecoFIT Fixpoint fitting PE100
d63-630mm / SDR11

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





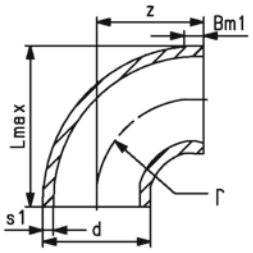
ecoFIT Fixpoint fitting PE100
d63-630mm / SDR17

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





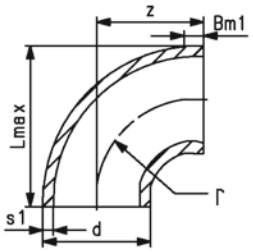
ecoFIT Bend 90° PE100
d20-500mm / SDR11

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





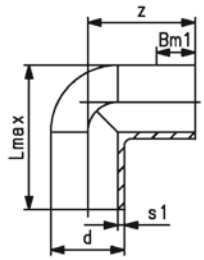
ecoFIT Bend 90° PE100
d50-500mm / SDR17

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





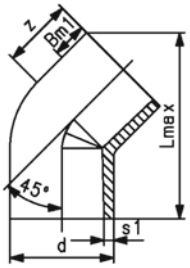
ecoFIT Elbow 90° PE100
d20-63mm / SDR11

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





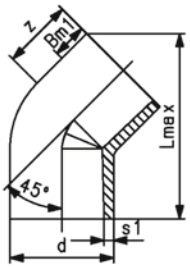
ecoFIT Elbow 45° PE100
d20-225mm / SDR11

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





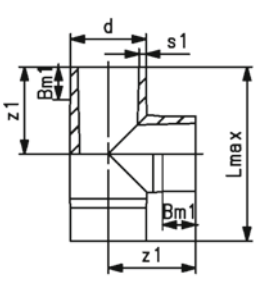
ecoFIT Elbow 45° PE100
d50-225mm / SDR17

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





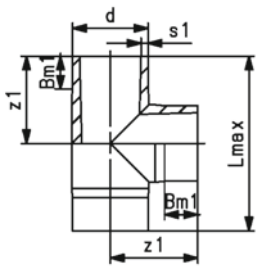
ecoFIT Tee 90° equal PE100
d20-500mm / SDR11

Model:

- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

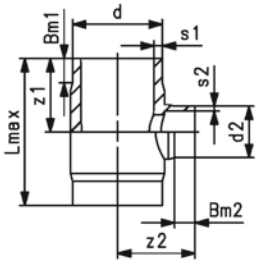
d (mm)	DN (mm)	PN (bar)	FM	Code	Weight (kg)	Lmax (mm)	s1 (mm)	z1 (mm)	Bm1 (mm)
20	15	16	IR	**753 208 606**	0.013	76	1.9	38	17
25	20	16	IR	**753 208 607**	0.021	84	2.3	42	17
32	25	16	IR	**753 208 608**	0.042	92	2.9	46	17
40	32	16	IR	**753 208 609**	0.065	102	3.7	51	22
50	40	16	IR	**753 208 610**	0.111	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





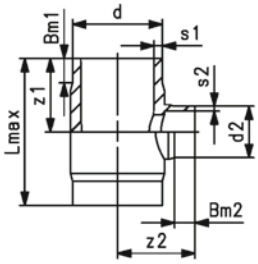
ecoFIT Tee 90° reduced PE100
d63-250mm / SDR11

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

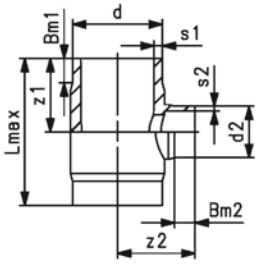
Model:

- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100
- 5 bar Gas / 10 bar Water

* Branch SDR11

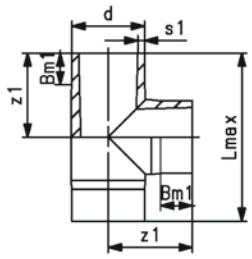
	d (mm)	d2 (mm)	DN (mm)	PN (bar)	FM	Code	Weight (kg)
*	63	32	50	10	IR	**753 208 301**	0.163
	63	50	50	10	IR	**753 208 302**	0.171
*	75	32	65	10	IR	**753 208 303**	0.231
	75	50	65	10	IR	**753 208 304**	0.250
	75	63	65	10	IR	**753 208 305**	0.263
	90	50	80	10	IR	**753 208 307**	0.411
	90	63	80	10	IR	**753 208 308**	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





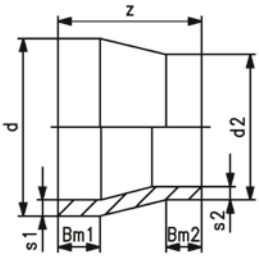
ecoFIT Tee 90° equal PE100
d50-500mm / SDR17

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

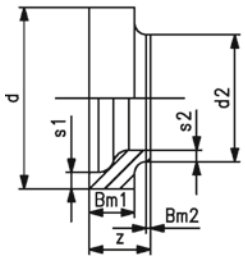
Model:

- 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





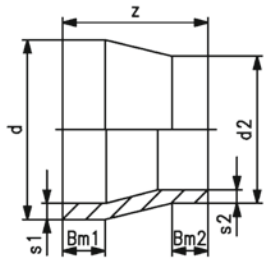
ecoFIT Flush style reducer PE100
d355-630mm / SDR11

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

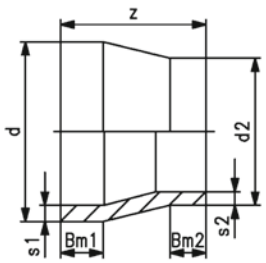
Model:

- 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

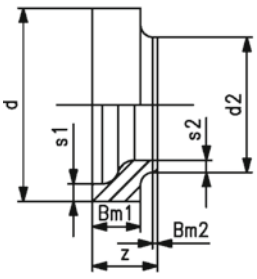
	d (mm)	d2 (mm)	DN (mm)	PN (bar)	FM	Code	Weight (kg)	Lmax (mm)	Q1 (mm)	Q2 (mm)	s1 (mm)	s2 (mm)
	50	40	40	10	IR	**753 908 713**	0.037	134	56	52	2.9	2,3
	63	50	50	10	IR	**753 908 718**	0.055	87	29	27	3.6	2,9
	75	40	65	10	IR	**753 908 904**	0.041	71	19	12	4.3	2,3
	75	50	65	10	IR	**753 908 465**	0.049	65	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





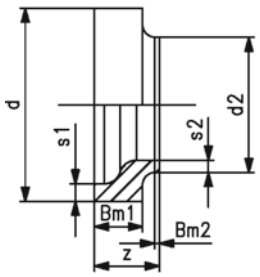
ecoFIT Flush style reducer PE100 d355-630mm / SDR17

Model:

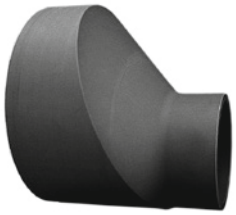
- Conventional butt-welding according to DVS 2207
- Clamping on welding machine needs to be done always on the bigger diameter (d1)
- The butt fusion machine must be suitable to weld both dimensions (d1 and d2)

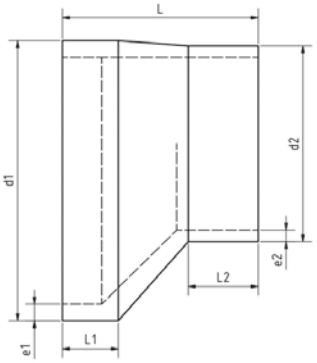
d (mm)	d2 (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	Lmax (mm)	Q1 (mm)	Q2 (mm)	s1 (mm)	s2 (mm)
355	225	350	10	**753 909 859**	3.922	120	85	10	21.1	13.4
355	250	350	10	**753 909 860**	3.318	115	80	10	21.1	14.8
355	280	350	10	**753 909 861**	3.134	115	80	10	21.1	16.6
355	315	350	10	**753 909 862**	2.716	115	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

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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





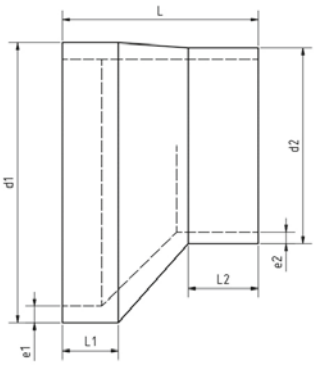
ecoFIT Reducing Bushes excentric PE100 SDR 11

Model:

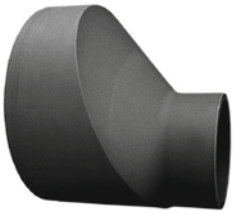
- Conventional butt-welding according to DVS 2207
- Machined

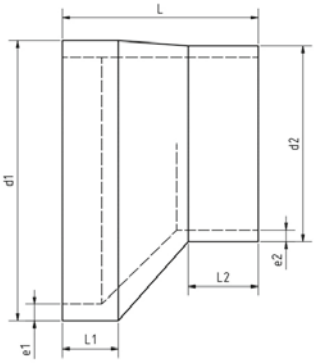
d1 (mm)	d2 (mm)	PN (bar)	SDR	Code	L (mm)	L1 (mm)	L2 (mm)	e1 (mm)	e2 (mm)
63	50	16	11	**700 647 600**	120	35	35	5,8	4,6
75	50	16	11	**700 647 601**	120	40	35	6,8	4,6
75	63	16	11	**700 647 602**	120	40	35	6,8	5,8
90	63	16	11	**700 647 603**	140	50	50	8,2	5,8
90	75	16	11	**700 647 604**	140	50	50	8,2	6,8
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

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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





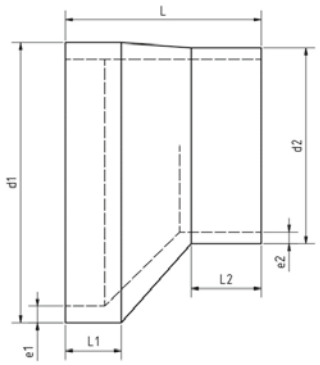
ecoFIT Reducing Bushes excentric PE100 SDR 17.6

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

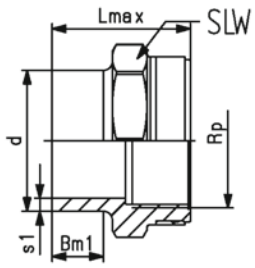
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d1 (mm)	d2 (mm)	PN (bar)	SDR	Code	L (mm)	L1 (mm)	L2 (mm)	e1 (mm)	e2 (mm)
450	400	10	17.6	**700 647 691**	140	40	65	26,7	23,7
500	315	10	17.6	**700 647 692**	260	40	107	29,7	18,7
500	355	10	17.6	**700 647 693**	220	40	91	29,7	21,1
500	400	10	17.6	**700 647 694**	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





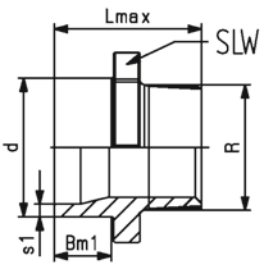
ecoFIT Adaptor socket PE100
d20-63mm / SDR11 / Female thread Rp

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





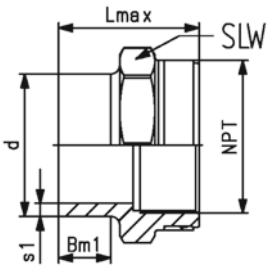
ecoFIT Adaptor nipple PE100
d20-63mm / SDR11 / Male thread R

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:

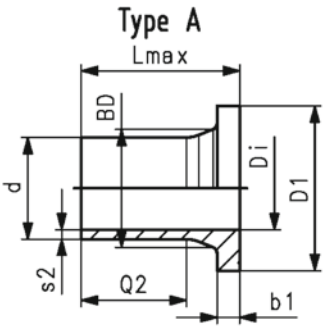
- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100
- NPT tapered female thread to ASTM F 1498
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes

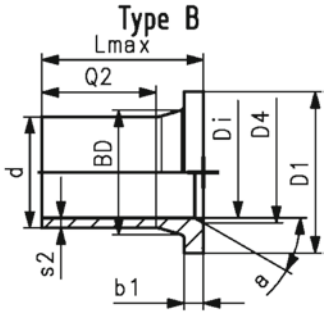
d (mm)	Thread Type	Size (inch)	DN (mm)	PN (bar)	FM	Code	Weight (kg)	Lmax (mm)	Q1 (mm)	s1 (mm)	SLW (mm)
20	NPT	½	15	16	IR	**753 914 266**	0.018	48	23	1.9	32
25	NPT	¾	20	16	IR	**753 914 267**	0.022	50	23	2.3	36
32	NPT	1	25	16	IR	**753 914 268**	0.038	54	23	2.9	46
40	NPT	1 ¼	32	16	IR	**753 914 269**	0.058	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

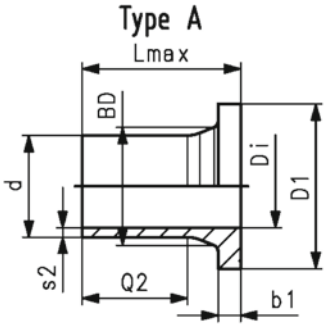
Model:

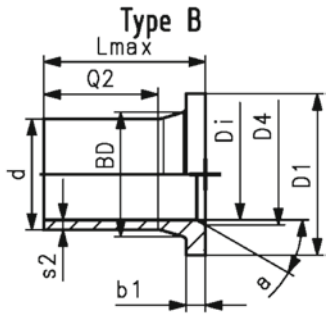
- For IR, butt and electrofusion welding according to DVS 2207
- Type A: without chamfer
- Type B: with chamfer
- Type 567/578 suitable for plastic butterfly valves up to DN300
- Type 565 for DN 300, the ecoFIT special flange adapter ** SDR11 is required
- Type 038/039/044/065 for metal butterfly valves 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

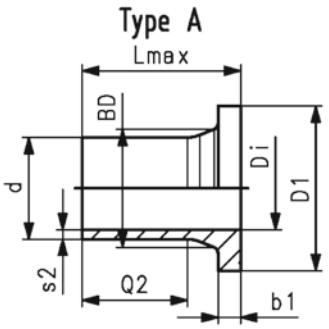


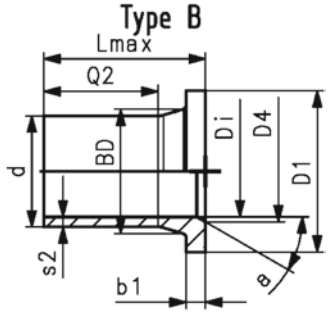
ecoFIT Flange adaptor PE100
d20-800mm / SDR11 / short spigot / combined jointing face: flat and serrated

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

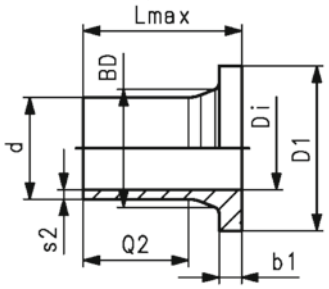




	d (mm)	Di (mm)	Type	DN (mm)	PN (bar)	Code	Weight (kg)
	20	16	A	15	16	**753 798 306**	0.016
	25	20	A	20	16	**753 798 307**	0.034
	32	26	A	25	16	**753 798 308**	0.046
	40	32	A	32	16	**753 798 309**	0.067
	50	40	A	40	16	**753 798 310**	0.098
	63	49	A	50	16	**753 798 311**	0.157
	75	58	B	65	16	**753 798 312**	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

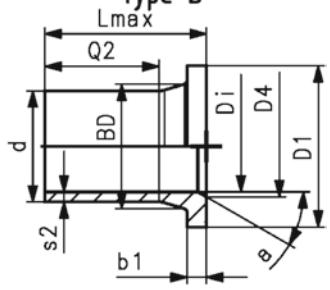
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Type A



	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



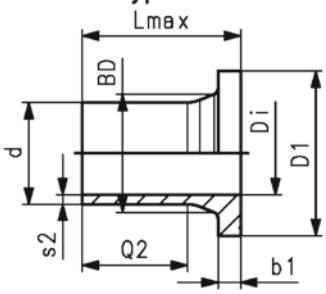
ecoFIT Flange adaptor PE100
d50-1000mm / SDR17/17.6 / short spigot / combined jointing face: flat and serrated

Model:

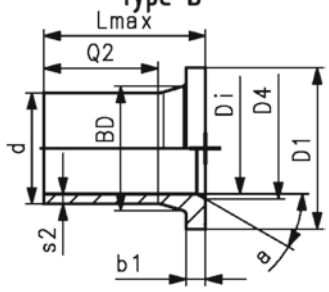
- For IR, buttfusion welding according to DVS 2207
- Type A: without chamfer
- Type B: with chamfer
- Type 567/578 suitable for plastic butterfly valves up to DN300
- Type 565 for DN 300, the ecoFIT special flange adapter ** SDR17 is required
- Type 038/039/044/065 for metal butterfly valves up to DN250 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



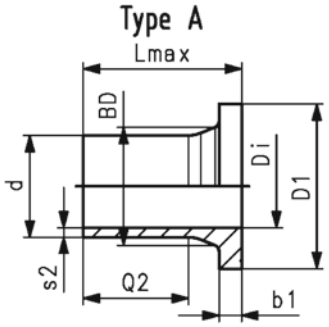
Type B

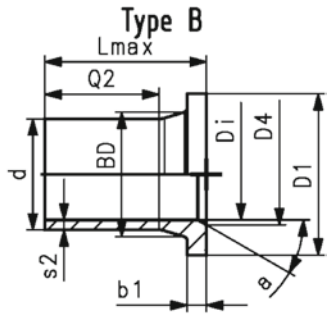


	d (mm)	Di (mm)	Type	DN (mm)	PN (bar)	Code	Weight (kg)
	50	44	A	40	10	**753 798 210**	0.093
	63	55	A	50	10	**753 798 211**	0.118
	75	63	A	65	10	**753 798 212**	0.220
	90	76	A	80	10	**753 798 213**	0.291
	110	94	A	100	10	**753 798 214**	0.389
	125	110	B	100	10	**753 798 215**	0.421
	140	123	B	125	10	**753 798 216**	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	



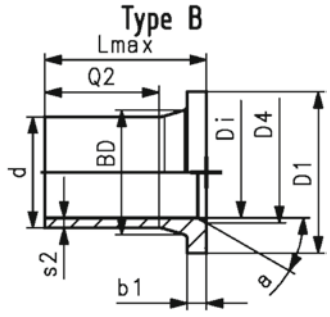
ecoFIT adaptor for butterfly valves PE100 d355-800mm / SDR11 / jointing face: flat and metric

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:

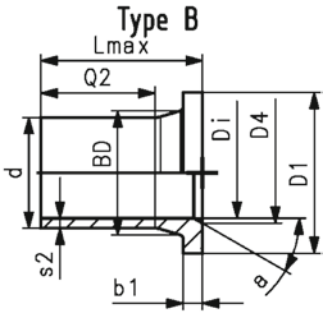
*machined



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

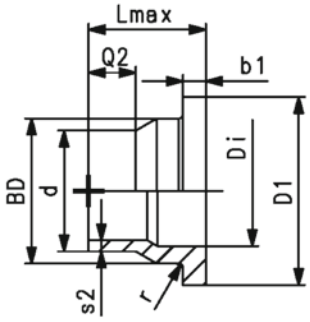
Model:

- 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:

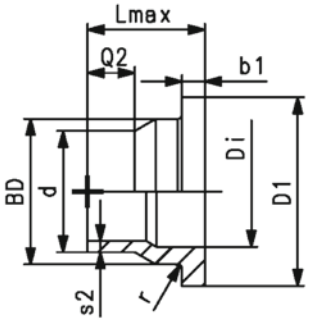
- Suitable for wafer check valves Type 369
- Conventional butt-welding according to DVS 2207

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:

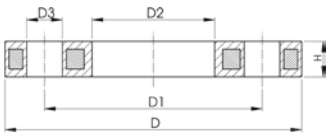
- In conjunction with Outlet flange adaptors, **flange rings for socket systems** must be used.

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

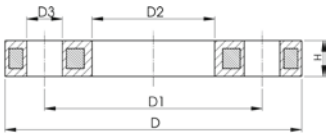
Model:

- 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

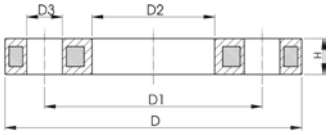
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	d (mm)	DN (mm)	D (mm)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
	280	250	395	16	Metric	PN10	Socket	**727 700 822**	5.547
*, **	315	300	455	16	Metric	PN16	Butt	**724 700 323**	9.740
	315	300	445	16	Metric	PN10	Butt	**727 700 723**	7.903
	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

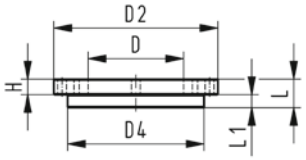
	d (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
	20	65	28	14	12	4	M12
	20	60	28	16	12	4	M12
	25	75	34	14	12	4	M12
	25	70	34	16	12	4	M12
	32	85	42	14	16	4	M12
	32	79	42	16	16	4	M12
	40	100	51	18	16	4	M16
	40	89	51	16	16	4	M16
	50	110	62	18	20	4	M16
	50	98	62	16	18	4	M16
	63	125	78	18	20	4	M16
	63	121	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

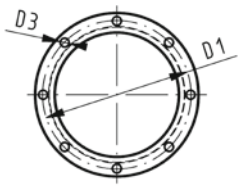
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	d (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
	225	297	238	22	27	8	M20
	225	297	250	22	29	8	M20
*, **	250	355	288	26	35	12	M24
	250	325	277	22	32	8	M20
	250	362	293	25	30	12	M24
	250	350	288	22	30	12	M20
	250	350	277	22	32	12	M20
*, **	280	355	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

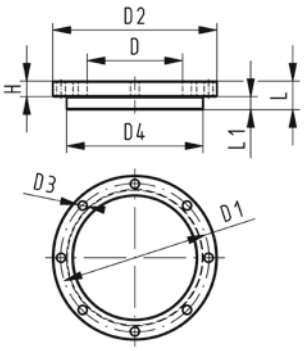
Model:

- 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

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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



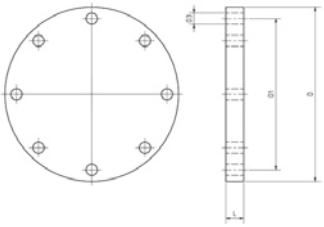
Blanking Flanges PE100
Bolt circle PN 10 PN 2.5 bar

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



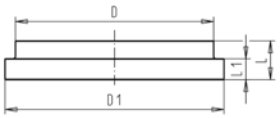
End blank PE100
For butt fusion systems metric

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

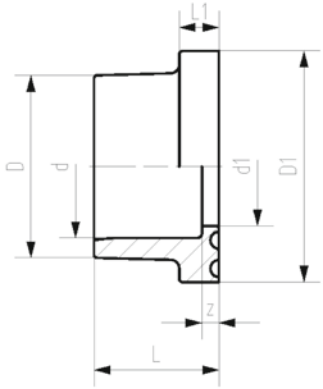
Flange adaptors for socket fusion systems



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



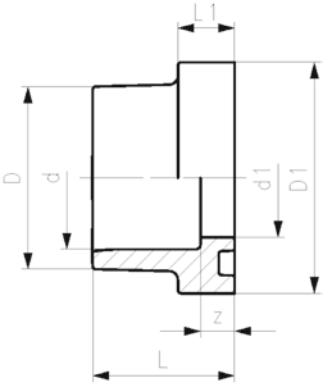
d (mm)	DN (mm)	PN (bar)	SDR	Code	Weight (kg)	D (mm)	D1 (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)
20	15	10	17/17.6	**753 790 206**	0.013	27	45	16	19	7	5
25	20	10	17/17.6	**753 790 207**	0.022	33	58	21	21	9	5
32	25	10	17/17.6	**753 790 208**	0.035	41	68	28	23	10	5
40	32	10	17/17.6	**753 790 209**	0.052	50	78	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

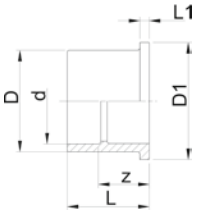
Model:

- 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

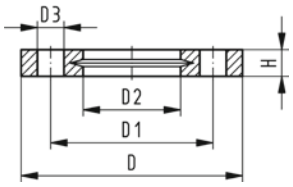
Model:

- 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)

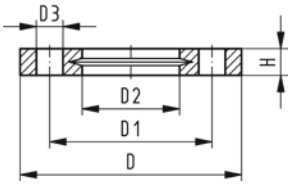
Model:

- 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

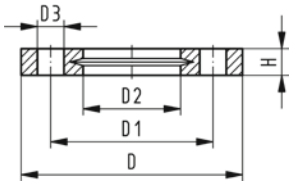
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d (mm)	DN (mm)	d (inch)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
200	200	8	16	Metric/ASME	PN10/ class 150	Butt	**727 700 519**	1.400
225	200		16	Metric/ASME	PN10/ class 150	Socket	**727 700 420**	1.400
225	200	8	16	Metric/ASME	PN10/ 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

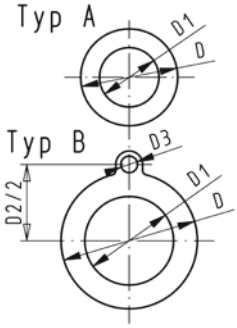
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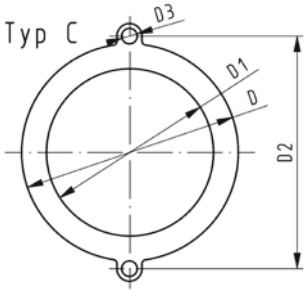


d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
315	445	400	338	22	42	12	M20
315	483	432	348	26	42	12	M20
315	483	432	338	26	42	12	M20
355	515	460	388	22	46	16	M20
355	515	460	376	22	46	16	M20
400	574	515	442	26	50	16	M24
400	574	515	430	26	50	16	M24

Gaskets for socket fusion







Flat gasket
EPDM

Model:

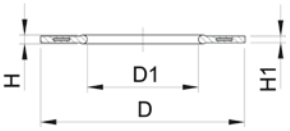
- For all metric GF Flange Adaptors
- Hardness approx. 65° Shore
- Integrated fixation aids from d110
- Centering on the inner diameter of the screw crown

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

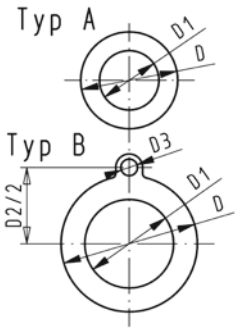


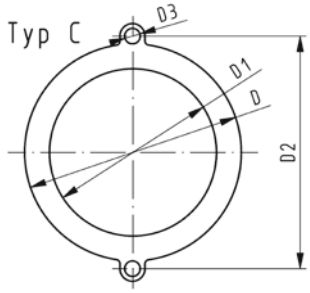
Flat gasket
EPDM

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

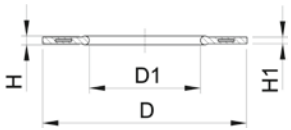




d (mm)	DN (mm)	PN (bar)	Type	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	di FA (mm)
16	10	10	A	**748 400 305**	0.004	46	16			2	6 - 26
20	15	10	A	**748 400 306**	0.012	51	20			2	10 - 30
25	20	10	A	**748 400 307**	0.004	61	25			2	15 - 35
32	25	10	A	**748 400 308**	0.008	71	32			2	22 - 42
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

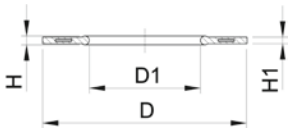
Model:

- 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

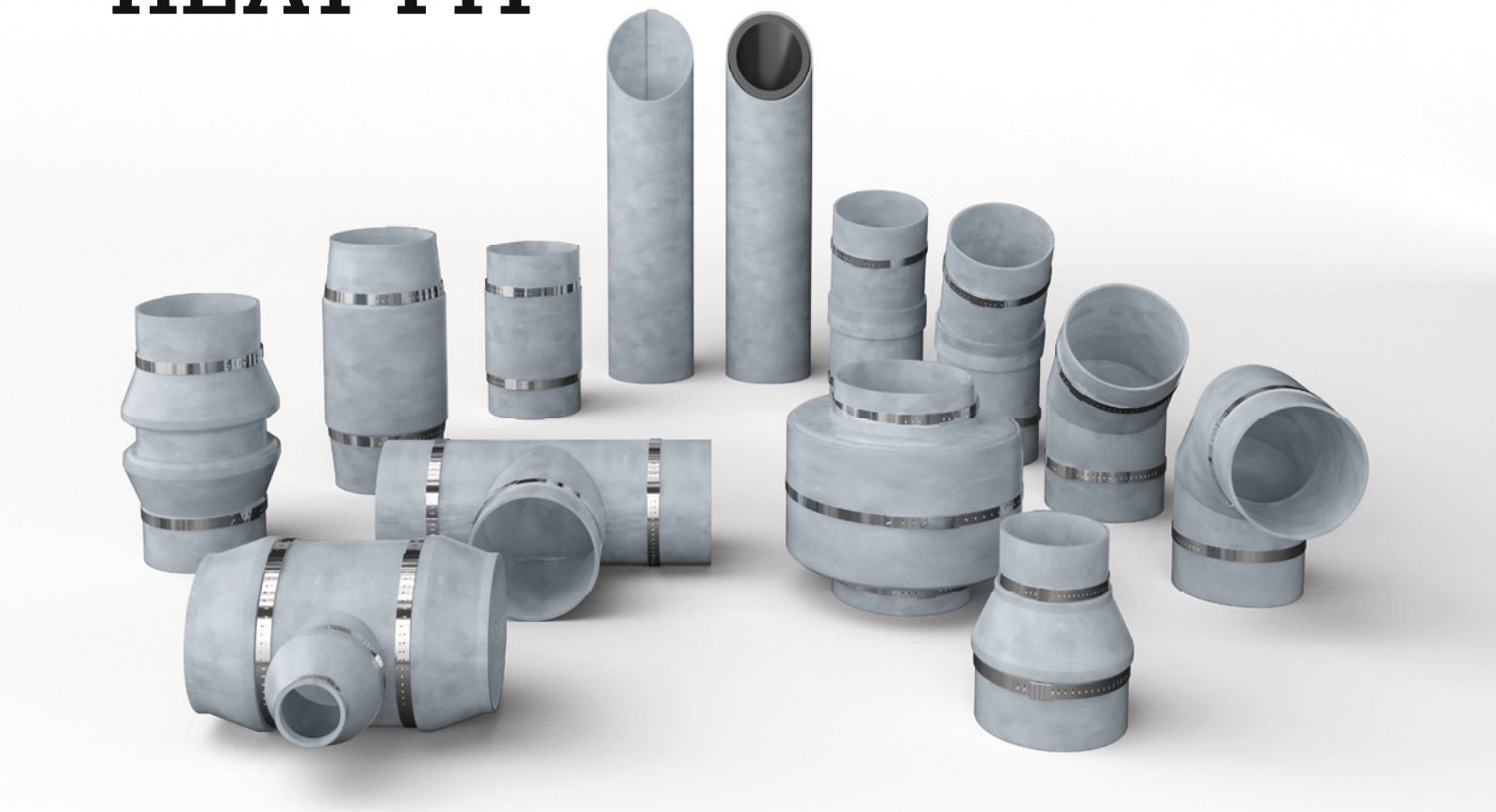
d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	Weight (kg)	D (mm)	D1 (mm)	di FA (mm)	H (mm)	H1 (mm)
16	10	16	**748 440 705**	**749 440 705**	0.012	46	16	6 - 16	4	3
20	15	16	**748 440 706**	**749 440 706**	0.013	51	20	10 - 20	4	3
25	20	16	**748 440 707**	**749 440 707**	0.014	61	22	12 - 22	4	3
32	25	16	**748 440 708**	**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

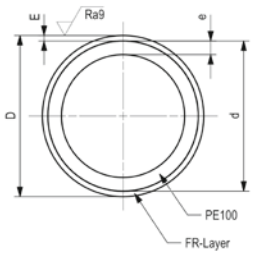
Jointing technology
Butt fusion and electrofusion

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

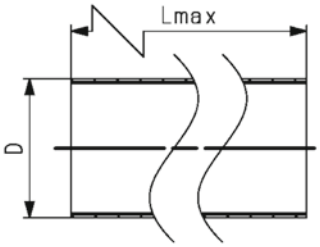
- Co-Extruded Pipe: Standard ecoFIT PE100 pipe with Flame Retardant Layer
- Color: White-Grey
- Marine specific test – IMO A.753 (18) Level 3

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



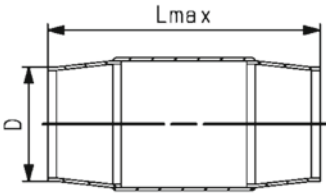


HEAT-FIT™ - Jacket Pipe Sleeve for ecoFIT PE piping systems

- 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



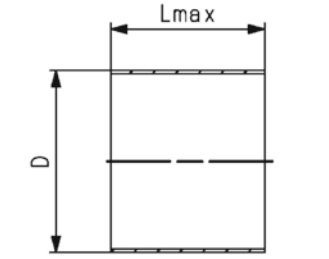


HEAT-FIT™ - Jacket Electrofusion Coupler for ecoFIT PE piping systems

- 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



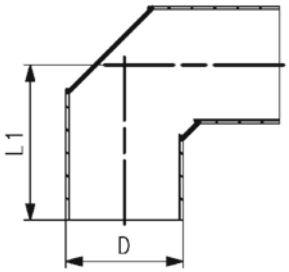


HEAT-FIT™ - Jacket Weld Bead Cover for ecoFIT PE piping systems

- 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



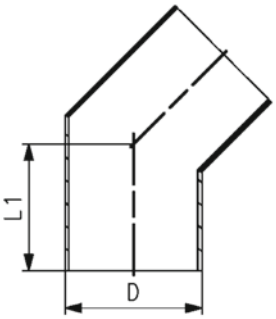


HEAT-FIT™ - Jacket 90° Bend for ecoFIT PE piping systems

- 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



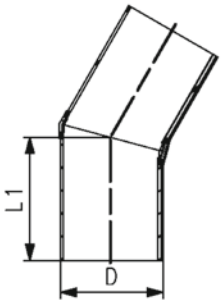


HEAT-FIT™ - Jacket 45° Elbow for ecoFIT PE piping systems

- 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



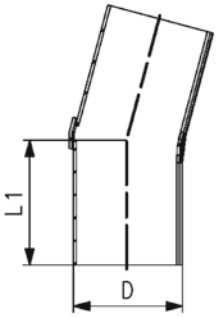


HEAT-FIT™ - Jacket 30° Elbow

- 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

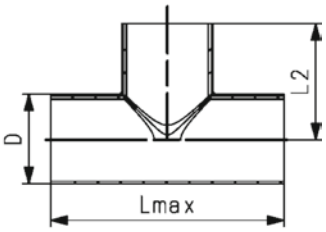
d (mm)	D (mm)	Code	Weight (kg)	L1 (mm)	Required length metal strap per piece [cm]	Required quantity closures per piece [pieces]	for ELGEF Plus article
110	124	**756 130 114**	0.70	190	110	2	753 141 014
160	174	**756 130 117**	1.00	216	210	3	753 141 017
225	239	**756 130 120**	1.54	281	315	3	753 141 020
315	329	**756 130 123**	3.51	339	435	3	753 141 023



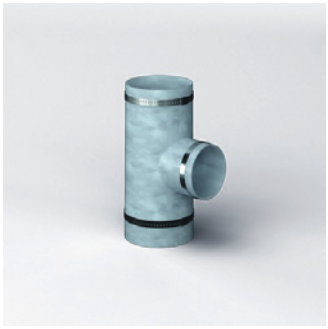
HEAT-FIT™ - Jacket Tee 90° Equal for ecoFIT PE piping systems

- 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



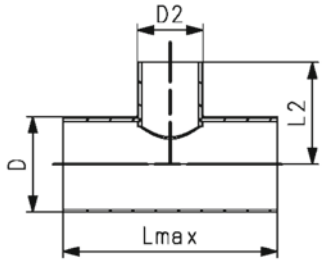
L2 (mm)	Lmax (mm)	Required length metal strap per piece [cm]	Required quantity closures per piece [pieces]	for ecoFIT article
181	362	165	3	753 208 614
231	462	210	3	753 208 617
323	586	315	3	753 208 620
468	836	435	3	753 208 623



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



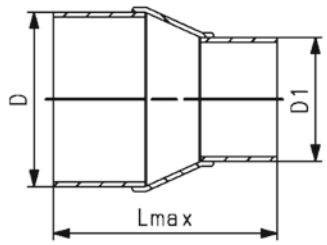
d (mm)	D2 (mm)	L2 (mm)	Lmax (mm)	Required length metal strap per piece [cm]	Required quantity closures per piece [pieces]	for ecoFIT and ELGEF Plus article
160	124	204	424	195	3	753 208 374
225	124	235	506	265	3	753 208 389
225	174	235	506	280	3	753 208 391
315	174	416	935	430	4	753 201 052
315	239	455	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



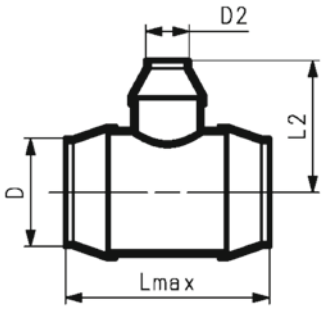
d (mm)	D1 (mm)	Lmax (mm)	Required length metal strap per piece [cm]	Required quantity closures per piece [pieces]	for ecoFIT article
160	124	260	125	2	753 908 690
225	174	330	175	2	753 908 696
315	239	457	250	2	753 908 176



HEAT-FIT™ - Jacket Branch Saddle to d63

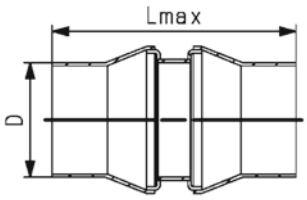
- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

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



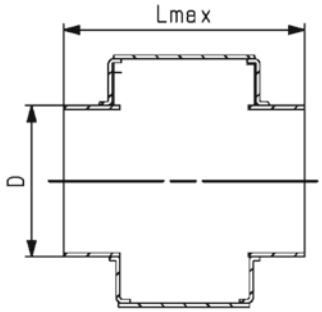


HEAT-FIT™ - Fixpoint Jacket for ecoFIT PE piping systems

- 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

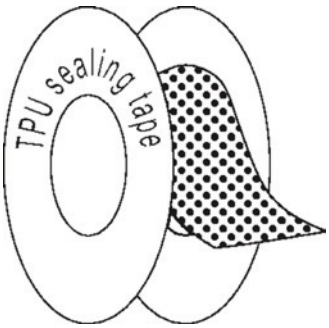




HEAT-FIT™ - Jacket Flange Connection for ecoFIT PE piping systems

- 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

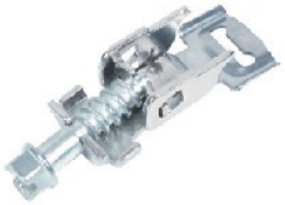
Code	Weight (kg)	Length (m)
756 170 301	0.20	25



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

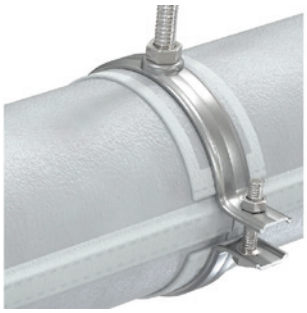
Code	Weight (kg)	Length (m)	Width (mm)	Thickness (mm)	Material
756 170 302	1.50	30	9	0.6mm	Stainless Steel



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

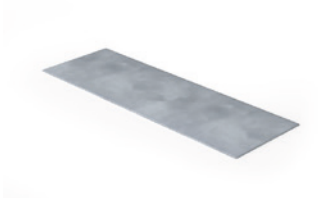
Code	Quantity
756 170 303	50 pcs.



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

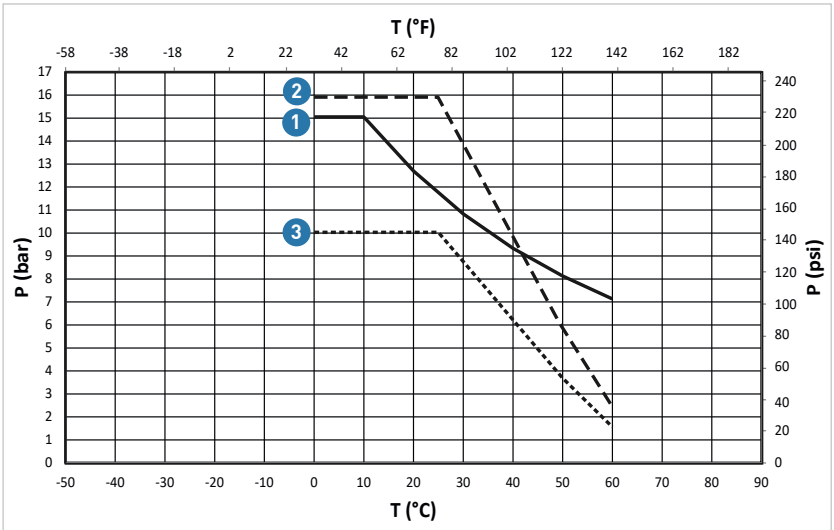
The pressure resistance for thermoplastic pipe for water is always specified at +20 °C. At higher temperatures allowance must be made for a lower maximum operating pressure.

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.

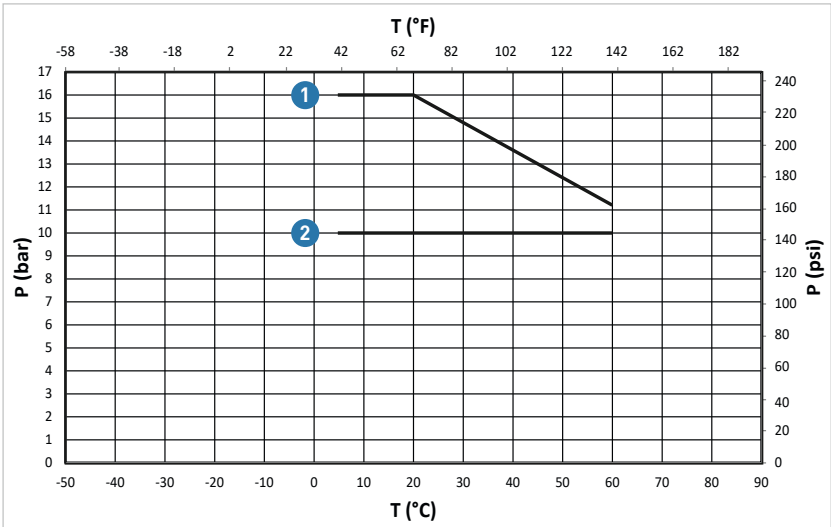


P Allowable pressure (bar, psi)
T Temperature (°C, °F)
C Safety factor
1 COOL-FIT pipe and fitting C=1.6, SDR11
2 COOL-FIT 2.0 ball valve PN16
3 COOL-FIT butterfly valve PN10

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

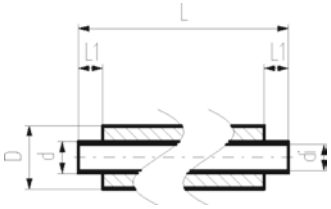
For detailed information on resistance and reduction factors, see Planning Fundamentals "Material selection – Chemical resistance".

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COOL-FIT 2.0 Pipes and Fittings





COOL-FIT 2.0 Pipe

Model:

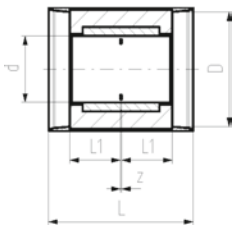
- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- With free ends for electrofusion

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:

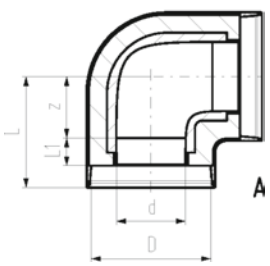
- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- Electrofusion fitting with integrated sealing lip, for a moisture-proof and vapour tight sealing

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





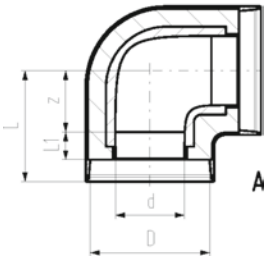
COOL-FIT 2.0 Elbow 90°

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

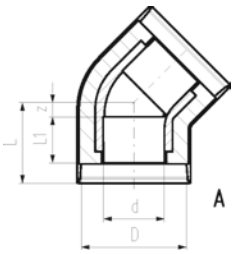
d (mm)	D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)	Type
32	75	25	11	16	**738 104 108**	0.127	75	36	20	A
40	90	32	11	16	**738 104 109**	0.185	82	40	23	A
50	90	40	11	16	**738 104 110**	0.242	93	44	30	A
63	110	50	11	16	**738 104 111**	0.384	101	48	34	A

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





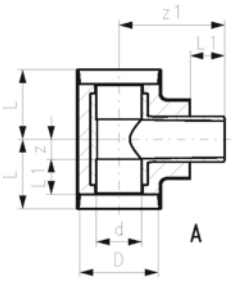
COOL-FIT 2.0 Elbow 45°

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





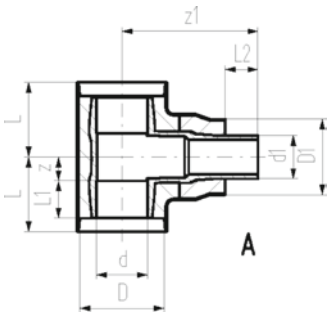
COOL-FIT 2.0 Tee 90° equal

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

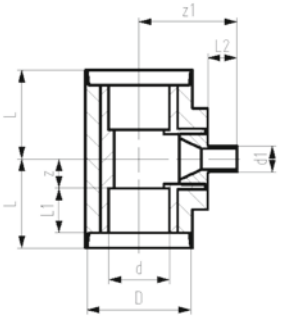
Model:

- 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

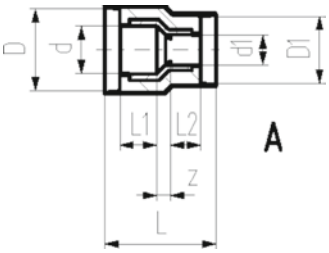
d (mm)	d1 (mm)	D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	z1 (mm)	Type
40	32	90	32	11	16	**738 204 506**	0.250	81	40	36	22	108	A
50	32	90	40	11	16	**738 204 509**	0.340	88	44	36	25	117	A
63	32	110	50	11	16	**738 204 512**	0.550	97	48	36	30	135	A
75	32	125	65	11	16	**738 204 515**	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

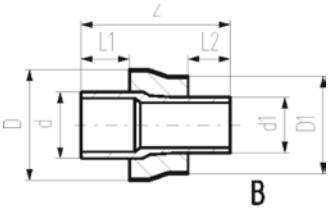


A



B





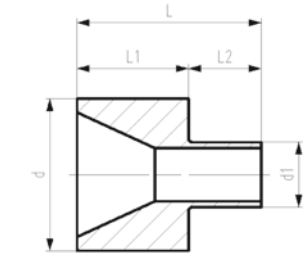
COOL-FIT 2.0 Reducer

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





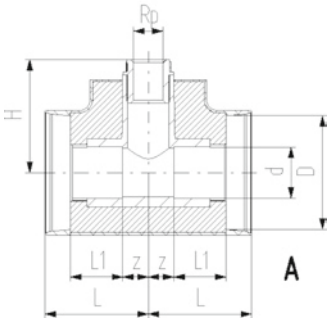
COOL-FIT 2.0 Reducer short

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:

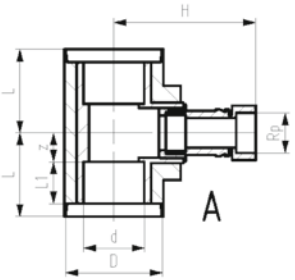
- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- With threaded branch for sensors (i.e temperature, pressure)
- A: Electrofusion Fitting with integrated sealing lip, for a moisture-proof and vapour tight sealing

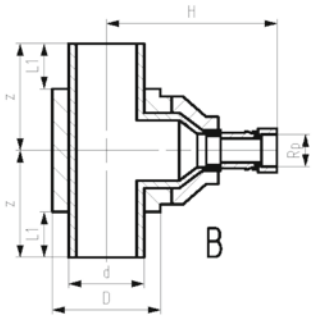
d (mm)	D (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	H (mm)	L (mm)	L1 (mm)	z (mm)	Type
32	75	Rp	½	25	11	16	**738 313 408**	0.138	75	73	36	16	A
40	90	Rp	½	32	11	16	**738 313 409**	0.216	85	81	40	21	A
40	90	Rp	¾	32	11	16	**738 313 459**	0.216	88	81	40	21	A
50	90	Rp	½	40	11	16	**738 313 410**	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









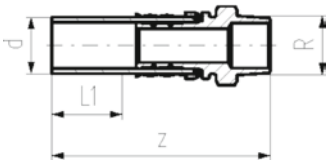
COOL-FIT 2.0 Transition Tee90° PE/brass
With female thread Rp

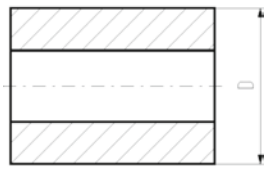
Model:

- 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







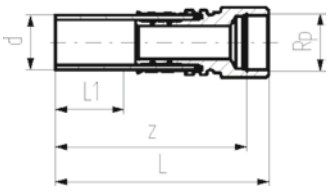
COOL-FIT 2.0 Adaptor fitting PE/stainless steel
With male thread R

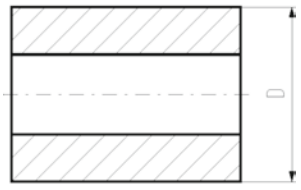
Model:

- 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

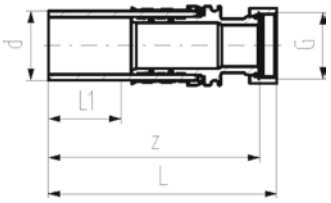
d (mm)	D (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)
32	70	Rp	½	25	11	16	**738 944 008**	0.201	132	36	118
32	70	Rp	¾	25	11	16	**738 944 018**	0.226	132	36	116
32	70	Rp	1	25	11	16	**738 944 028**	0.251	132	36	115
40	78	Rp	1 ¼	32	11	16	**738 944 009**	0.626	157	40	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

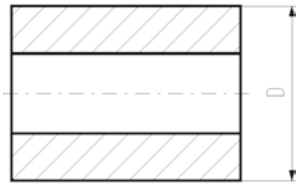


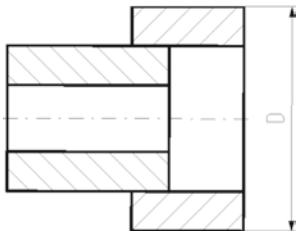
COOL-FIT 2.0 Adaptor fitting PE/stainless steel
With loose union nut G

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







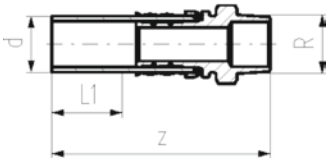
d (mm)	D (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)
32	70	G	½	25	11	16	**738 944 308**	0.204	135	36	126
32	70	G	¾	25	11	16	**738 944 318**	0.219	135	36	129
32	70	G	1	25	11	16	**738 944 328**	0.317	135	36	129
40	78	G	1 ¼	32	11	16	**738 944 309**	0.538	155	40	148
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

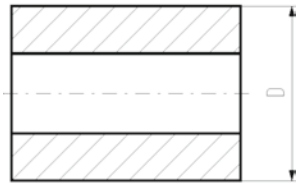


COOL-FIT 2.0 Adaptor fitting PE/brass
With male thread R

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





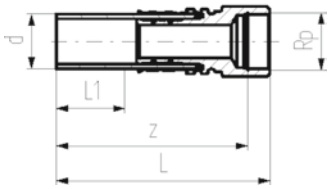
d (mm)	D (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L1 (mm)	z (mm)
32	70	R	½	25	11	16	**738 954 508**	0.203	36	130
32	70	R	¾	25	11	16	**738 954 518**	0.211	36	134
32	70	R	1	25	11	16	**738 954 528**	0.221	36	134
40	78	R	1 ¼	32	11	16	**738 954 509**	0.631	40	156
50	88	R	1 ½	40	11	16	**738 954 510**	1.013	44	168
63	101	R	2	50	11	16	**738 954 511**	1.467	48	179

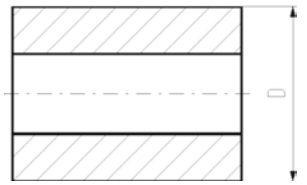


COOL-FIT 2.0 Adaptor fitting PE/brass
With female thread Rp

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





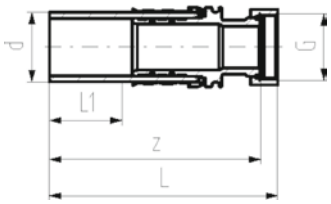
d (mm)	D (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)
32	70	Rp	½	25	11	16	**738 954 008**	0.210	132	36	118
32	70	Rp	¾	25	11	16	**738 954 018**	0.237	132	36	116
32	70	Rp	1	25	11	16	**738 954 028**	0.264	132	36	115
40	78	Rp	1 ¼	32	11	16	**738 954 009**	0.667	157	40	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

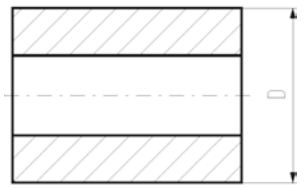


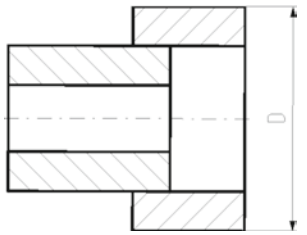
COOL-FIT 2.0 Adaptor fitting PE/brass
With loose union nut G

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

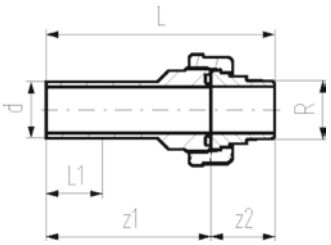


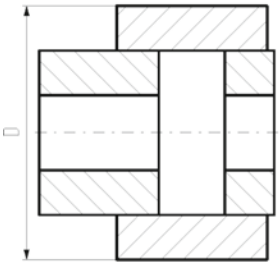




d (mm)	D (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)
32	70	G	¾	25	11	16	**738 954 318**	0.224	135	36	126
32	70	G	1	25	11	16	**738 954 328**	0.263	135	36	129
40	78	G	1 ¼	32	11	16	**738 954 309**	0.569	155	40	148
40	116	G	1 ½	32	11	16	**738 954 319**	0.650	157	40	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







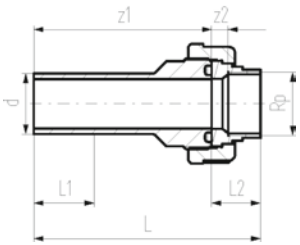
COOL-FIT 2.0 Adaptor union PE/stainless steel
With male thread R

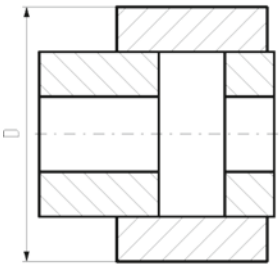
Model:

- 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







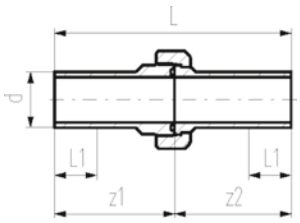
COOL-FIT 2.0 Adaptor union PE/stainless steel
With female thread Rp

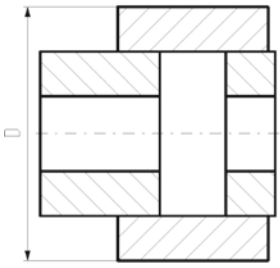
Model:

- 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







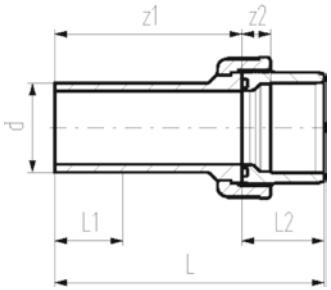
COOL-FIT 2.0 Union PE/PE

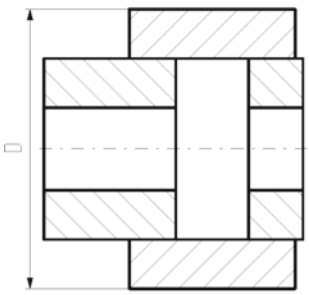
Model:

- 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

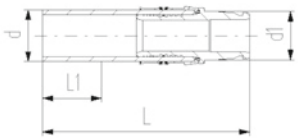
COOL-FIT 2.0 Adaptor fitting PE/iFIT

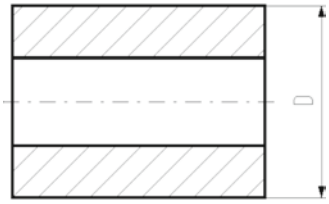


Model:

- 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





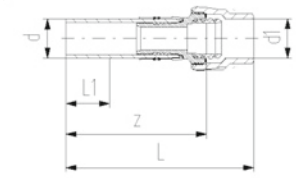
COOL-FIT 2.0 Adaptor fitting PE/Sanipex MT

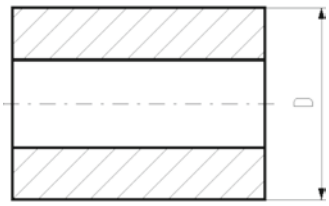


Model:

- 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



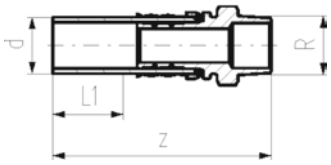




COOL-FIT 2.0/4.0 Adaptor fitting PE/stainless steel
With male thread R

Model:

- Spigot fitting PE100 SDR11, metric with free end
- Stainless steel 1.4404 / 316L with male thread R
- Gasket: O-ring EPDM



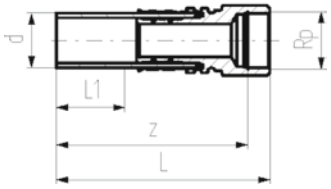
d (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L1 (mm)	z (mm)
32	R	½	25	11	16	**738 940 508**	0.179	36	130
32	R	¾	25	11	16	**738 940 518**	0.187	36	134
32	R	1	25	11	16	**738 940 528**	0.196	36	134
40	R	1 ¼	32	11	16	**738 940 509**	0.572	40	156
50	R	1 ½	40	11	16	**738 940 510**	0.927	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



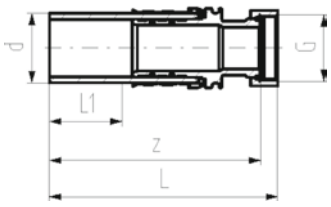
d (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)
32	Rp	½	25	11	16	**738 940 008**	0.183	132	36	118
32	Rp	¾	25	11	16	**738 940 018**	0.208	132	36	116
32	Rp	1	25	11	16	**738 940 028**	0.233	132	36	115
40	Rp	1 ¼	32	11	16	**738 940 009**	0.600	157	40	141
50	Rp	1 ½	40	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

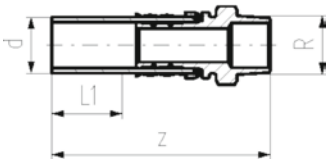
Model:

- 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





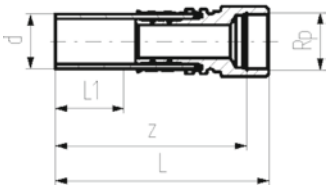
COOL-FIT 2.0/4.0 Adaptor fitting PE/brass
With male thread R

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





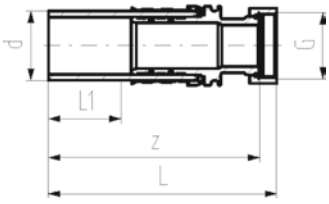
COOL-FIT 2.0/4.0 Adaptor fitting PE/brass
With female thread Rp

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





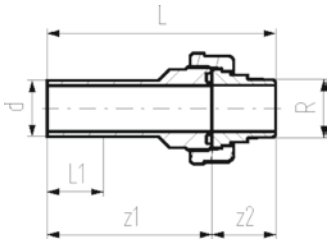
COOL-FIT 2.0/4.0 Adaptor fitting PE/brass
With loose union nut G

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





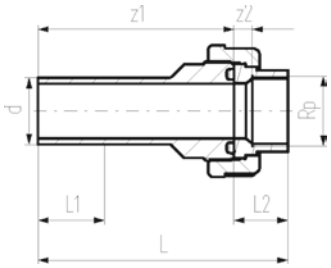
COOL-FIT 2.0/4.0 Adaptor union PE/stainless steel
With male thread R

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





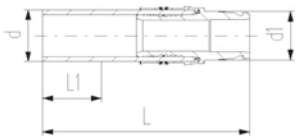
COOL-FIT 2.0/4.0 Adaptor union PE/stainless steel
With female thread Rp

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





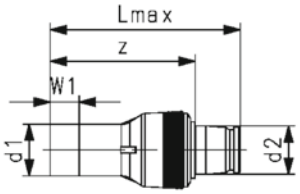
COOL-FIT 2.0/4.0 Adaptor Fitting PE/iFIT

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





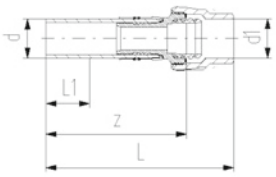
COOL-FIT 2.0/4.0 Adaptor fitting PE/iFIT

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





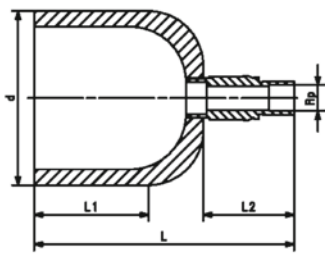
COOL-FIT 2.0/4.0 Adaptor fitting PE/Sanipex MT

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



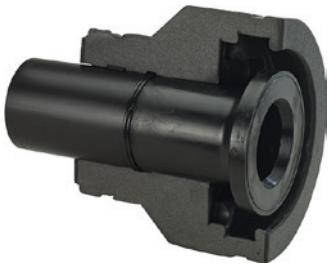


COOL-FIT 2.0/4.0 Transition cap PE/brass With female thread Rp

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



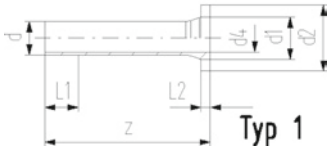
COOL-FIT 2.0/4.0 Flange adaptor

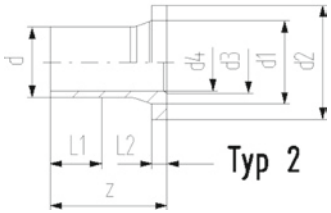
Model:

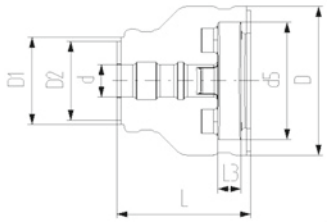
- PE100 SDR11, metric
- Suitable for flange connections to metric and/or ANSI/ASME B16.5
- Type 1 without chamfer, Type 2 with chamfer
- Profile flange gasket EPDM: metric No. 48 44 07, ANSI No. 48 44 05.
- Separate Fittings type A needed for joining

Note:

Backing ring and gasket not included





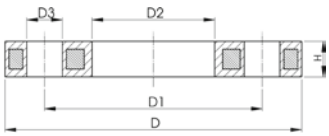


d (mm)	DN (mm)	SDR	PN	Type	Code	Weight (kg)
32	25	11	16	1	**738 710 008**	0.320
32	25	11	16	1	**738 710 108**	0.320
40	32	11	16	1	**738 710 009**	0.480
40	32	11	16	1	**738 710 109**	0.480
50	40	11	16	1	**738 710 010**	0.620
63	50	11	16	1	**738 710 011**	0.910
50	40	11	16	1	**738 710 110**	0.620
75	65	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

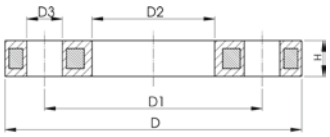
Model:

- 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

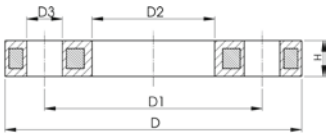
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	d (mm)	DN (mm)	D (mm)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
	280	250	395	16	Metric	PN10	Socket	**727 700 822**	5.547
*, **	315	300	455	16	Metric	PN16	Butt	**724 700 323**	9.740
	315	300	445	16	Metric	PN10	Butt	**727 700 723**	7.903
	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

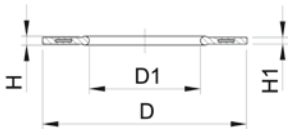
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	d (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
	225	297	238	22	27	8	M20
	225	297	250	22	29	8	M20
*, **	250	355	288	26	35	12	M24
	250	325	277	22	32	8	M20
	250	362	293	25	30	12	M24
	250	350	288	22	30	12	M20
	250	350	277	22	32	12	M20
*, **	280	355	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

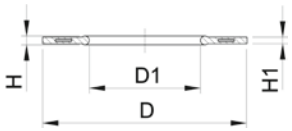
Model:

- 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

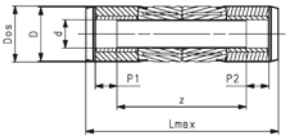
d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	Weight (kg)	D (mm)	D1 (mm)	di FA (mm)	H (mm)	H1 (mm)
16	10	16	**748 440 705**	**749 440 705**	0.012	46	16	6 - 16	4	3
20	15	16	**748 440 706**	**749 440 706**	0.013	51	20	10 - 20	4	3
25	20	16	**748 440 707**	**749 440 707**	0.014	61	22	12 - 22	4	3
32	25	16	**748 440 708**	**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

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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

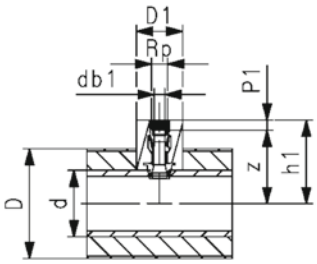
Model:

- 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:

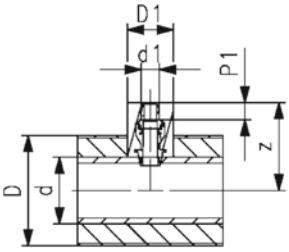
- Material: PE100, brass with low lead content, dezincification resistant
- With Weld-in port cone (PE100) and female thread Rp (brass) for the installation of sensors, instruments, venting and draining
- Gasket: O-ring EPDM
- Including insulation made from EPDM foam

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:

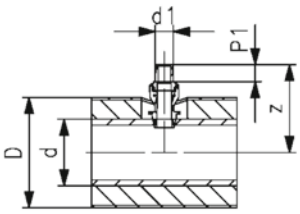
- Material: PE100, brass
- With Weld-in port cone (PE100) and iFIT module (brass) for the transition to COOL-FIT Push System or iFIT
- Gasket: O-ring EPDM
- Including insulation made from EPDM foam

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:

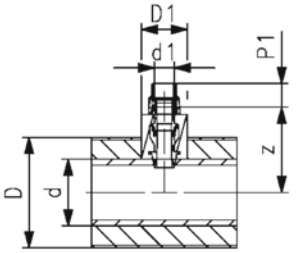
- Material: PE100, brass
- With Weld-in port cone (PE100) and iFIT module (brass) for the transition to COOL-FIT Push System or iFIT
- Gasket: O-ring EPDM

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:

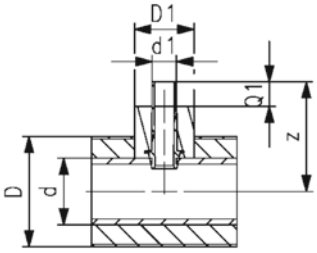
- Material: PE100, brass with low lead content, dezincification resistant
- With Weld-in port cone (PE100) and Sanipex MT adaptor (brass) for the transition to Sanipex MT
- Gasket: O-ring EPDM
- Including insulation made from EPDM foam

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

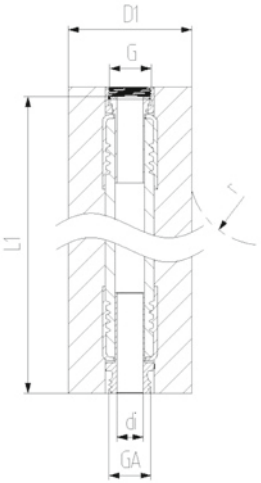
Note:

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:

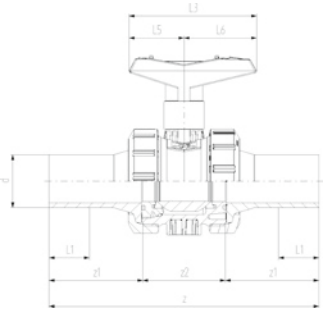
- EPDM flexible hose with stainless steel protection
- Brass adaptors
- Pre-Insulation made from NBR foam with outer jacket impact resistant and tearproof
- With loose union nut G on one end and male thread GA on the other

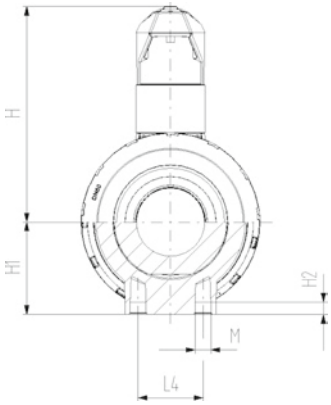
d (mm)	D1 (mm)	Thread	Size (inch)	DN (mm)	PN (bar)	Code	di (mm)	L1 (mm)	r (mm)
20	39	G/GA	1/2"	15	10	**738 924 206**	15	1000	119
25	44	G/GA	3/4"	20	10	**738 924 207**	19	1000	156
32	51	G/GA	1"	25	10	**738 924 208**	25	1000	192
40	59	G/GA	1 1/4"	32	8	**738 924 209**	32	1500	252
50	69	G/GA	1 1/2"	40	6	**738 924 210**	38	2000	312
63	82	G/GA	2"	50	6	**738 924 211**	52	2000	372

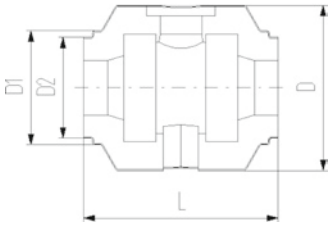
COOL-FIT 2.0 Valves











COOL-FIT 2.0 Ball valve hand-operated

Model:

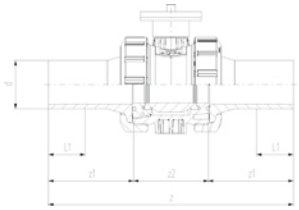
- Material: PVC-U with spigot PE100 SDR11, metric
- Ball seals type 542-PE/ blue lever ; type 546 PTFE/ red lever
- Integrated stainless steel mounting inserts for type 546
- Including insulation half shells

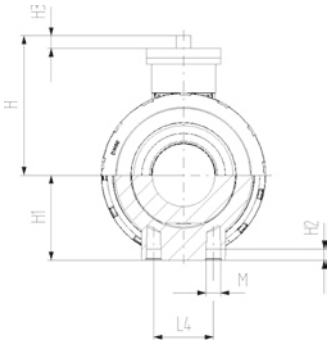
d (mm)	DN (mm)	PN	kv-value (Δp=1 bar) (l/min)	Code	Weight (kg)
32	25	16	700	**138 541 308**	0.550
40	32	16	1000	**138 541 309**	0.892
50	40	16	1600	**138 541 310**	1.187
63	50	16	3100	**138 541 311**	2.153
75	65	16	5000	**138 546 312**	5.550
90	80	16	7000	**138 546 313**	8.150

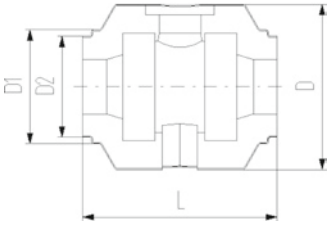
d (mm)	D (mm)	D1 (mm)	D2 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
32	135	97	82	97	34		152	36	93		34	59		223	76
40	157	117	97	114	42		170	40	110		41	69		249	82
50	169	117	97	120	49		184	44	180		41	69		271	91
63	204	132	117	141	62		227	48	128		49	79		321	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

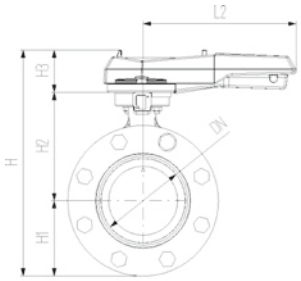
Model:

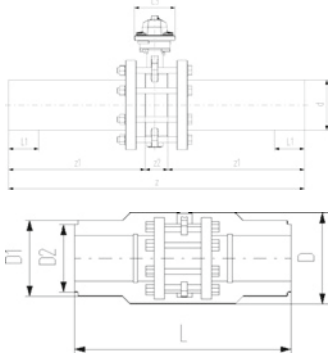
- Material: PVC-U with spigot PE100 SDR11, metric
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Interface according to DIN EN ISO 5211
- Including insulation half shells

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

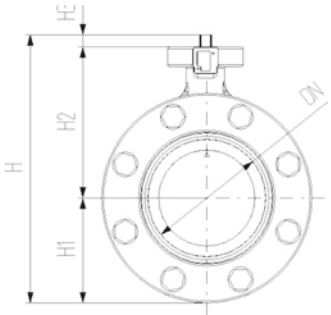
Model:

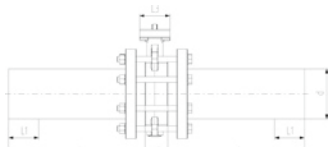
- Material: PVC-U with spigot PE100 SDR11, metric
- Including flange adaptors, backing flanges PP-Steel, bolts and insulation half shells

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**

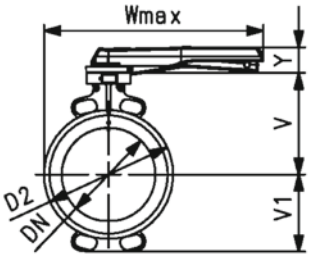
d (mm)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	L3 (mm)	H1 (mm)	H2 (mm)	H3 (mm)	z (mm)	z1 (mm)	z2 (mm)
110	260	188	168	552	72	106	104	167	55	696	320	56
140	287	233	208	662	84	106	117	181	55	830	383	64



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)

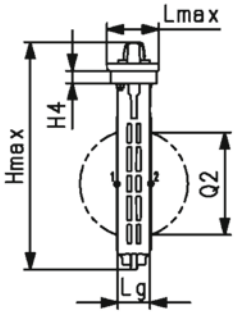


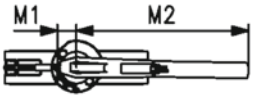
Option:

- 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:

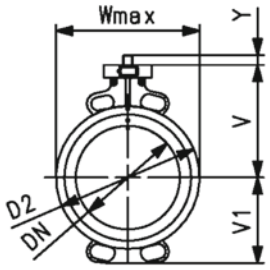
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

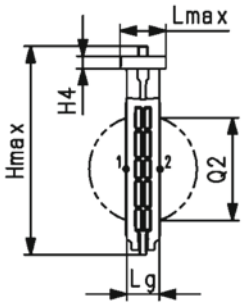
Option:

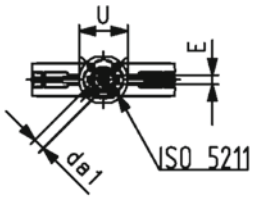
- Individual configuration of the valve possible
- Hand (lockable), pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

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





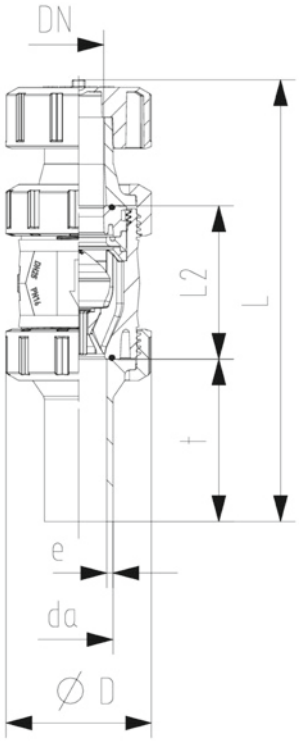


d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Acc.to ISO 5211	EPDM Code	Weight (kg)
63	50	2	16	1445	F07	**199 565 100**	0.9
75	65	2 ½	16	2530	F07	**199 565 101**	1.1
90	80	3	16	4020	F07	**199 565 102**	1.3
110	100	4	16	5850	F07	**199 565 103**	2.0
140	125	5	16	11900	F07	**199 565 104**	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





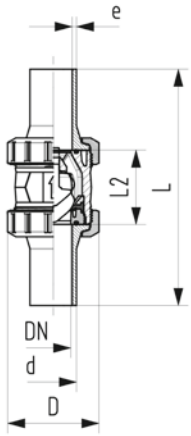
ecoFIT Ventilating and bleed valve Type 591
With butt fusion spigots long
PE100 SDR11 metric

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

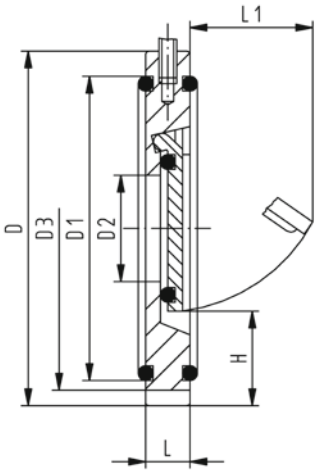
Model:

- 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

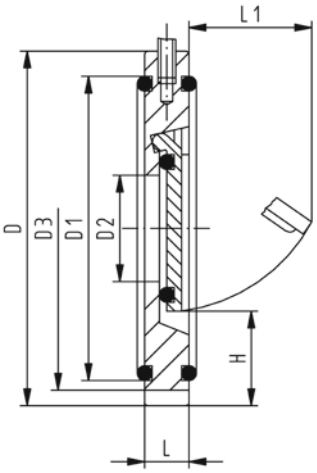
Installation instruction:

- 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

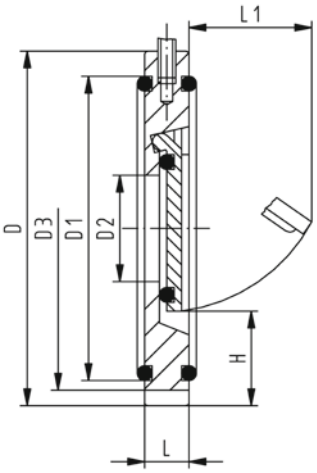
Installation instruction:

- 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

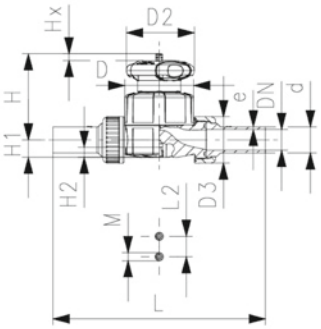
Installation instruction:

- 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

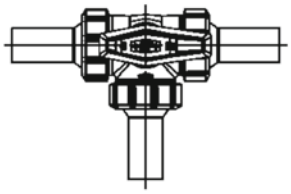
Option:

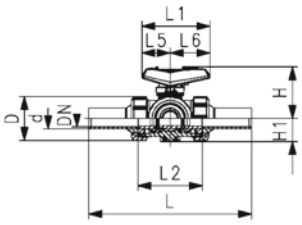
- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches
- PN16 available as a configuration

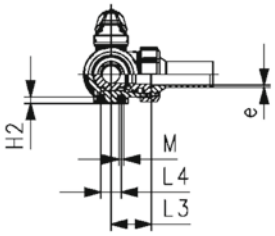
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
20	15	½	10	125	**161 514 312**	0.357
25	20	¾	10	271	**161 514 313**	0.431
32	25	1	10	481	**161 514 314**	0.683
40	32	1 ¼	10	759	**161 514 315**	1.443
50	40	1 ½	10	1263	**161 514 316**	1.663
63	50	2	10	1728	**161 514 317**	2.568

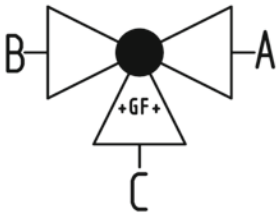
d (mm)	D (mm)	D2 (mm)	D3 (mm)	L (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	M	Lift = Hx (mm)	e (mm)	closest inch (inch)
20	65	65	43	196	25	73	14	12	M6	7	1.9	½
25	80	65	51	221	25	81	18	12	M6	10	2.3	¾
32	88	87	58	234	25	107	22	12	M6	13	2.9	1
40	101	87	72	260	45	115	26	15	M8	15	3.7	1 ¼
50	117	135	83	284	45	148	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)

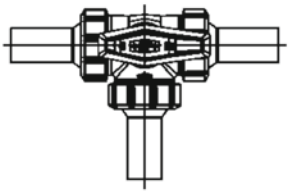
Option:

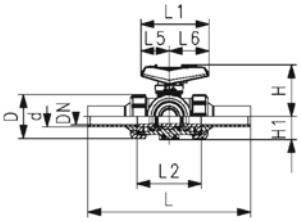
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

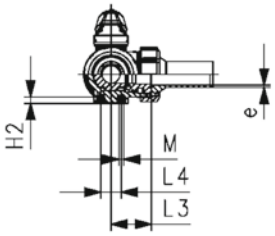
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	75	**161 543 462**	0.254	**161 543 472**	0.254
25	20	¾	10	150	**161 543 463**	0.370	**161 543 473**	0.370
32	25	1	10	280	**161 543 464**	0.563	**161 543 474**	0.563
40	32	1 ¼	10	480	**161 543 465**	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

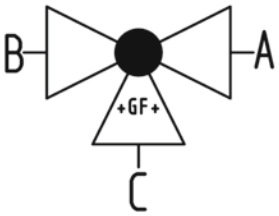
d (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	H (mm)	H1 (mm)	H2 (mm)	M	e (mm)	closest inch (inch)
20	50	210	82	73	36	25	35	47	61	28	8	6	1.9	½
25	58	237	106	86	43	25	44	62	74	32	8	6	2.3	¾
32	68	251	106	99	50	25	44	62	80	36	8	6	2.9	1
40	84	283	131	120	60	45	57	74	95	45	9	8	3.7	1 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

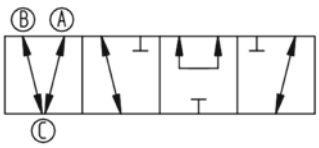












ecoFIT 3-Way ball valve type 543 Pro PVC-U
Horizontal/T-port
With butt fusion spigots long PE100 SDR11 metric

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)

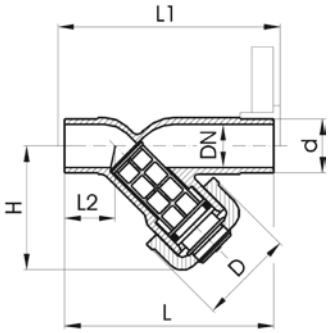
Option:

- 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)

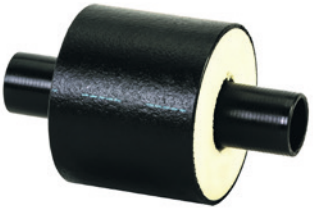
d (mm)	d1 (mm)	Code	Weight (kg)	Description	Length (mm)	Width (mm)	Height (mm)
40	200	**799 301 492**	1.000	V-block complete	290	230	65
160	630	**799 301 498**	3.200	V-block complete	660	430	90

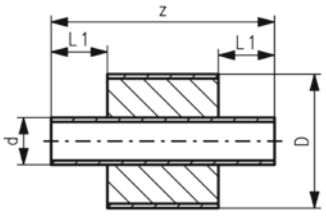


Bar extension

- 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





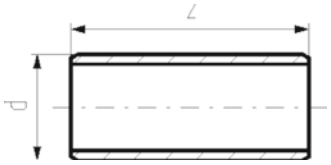
COOL-FIT 2.0 Barrel nipple with insulation, d32-d140

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



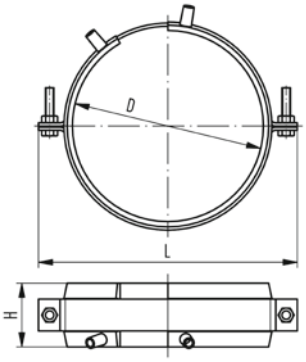
COOL-FIT 2.0/4.0 adhesive ring

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

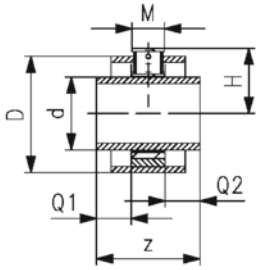
D (mm)	d (mm)	L (mm)	H (mm)	max Force COOL-FIT 4.0 (kN)	max Force COOL-FIT 2.0 (kN)
75	32	150	60		2.0
90	32 - 50	170	60	2.0	3.0 / 5.0
110	40 - 63	180	60	3.0 / 5.0	8.0
125	63 - 75	215	60	8.0	10.0
140	75 - 90	220	60	10.0	10.0
160	90 - 110	255	60	10.0	10.0
180	110	255	60	10.0	
200	140	310	60		10.0
225	140	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

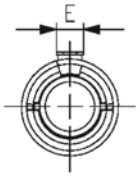
Model:

- 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



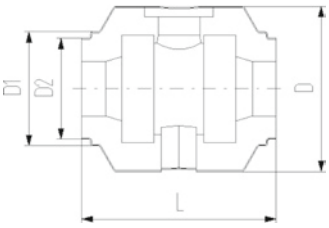
COOL-FIT 2.0/4.0 Insulation for ball valve type 546 / 542

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



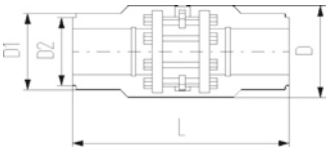
COOL-FIT 2.0/4.0 Insulation for Butterfly Valve Type 567

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



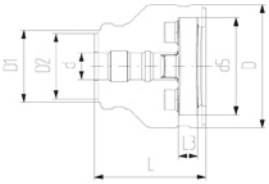
COOL-FIT 2.0/4.0 Insulation for flange adaptor

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)

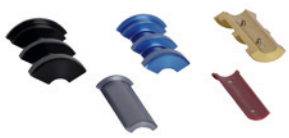
Code	Weight (kg)	Suitable for
799 738 115	0.100	799 738 004
799 738 117	0.080	799 738 013



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

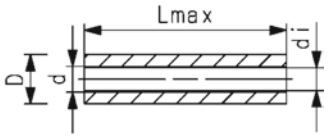
COOL-FIT 2.0 Push System Pipes and Fittings



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



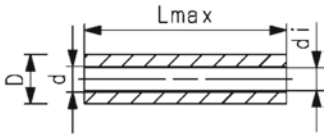
d (mm)	D (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	di (mm)	L (mm)	closest inch (inch)
16	44	12	16	**738 174 005**	0.299	12	5000	⅜
20	48	15	16	**738 174 006**	0.354	16	5000	½
25	54	20	16	**738 174 007**	0.521	20	5000	¾
32	61	25	16	**738 174 008**	0.481	26	5000	1



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

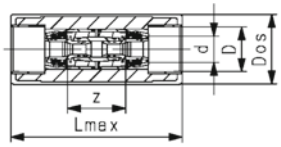


COOL-FIT 2.0 Push System Coupler

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



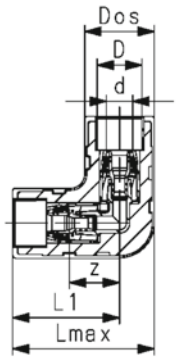


COOL-FIT 2.0 Push System Elbow 90°

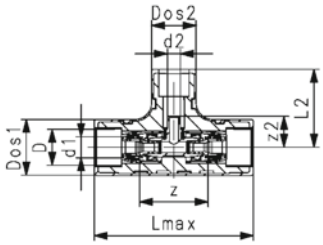
Model:

- 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:

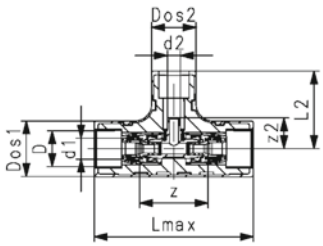
- Push fitting made of high-performance plastic PPSU
- Insulation shell of EPP with TPE jacket
- Colour: black
- Package contents: 1x module, 2x adaptors, 2x compression rings, 1x insulation shell

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



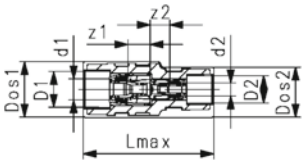
COOL-FIT 2.0 Push System Reducer

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

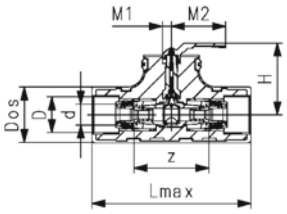
COOL-FIT 2.0 Push System Valves



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



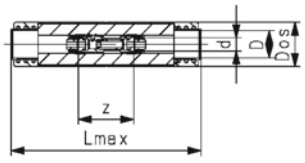
d (mm)	D (mm)	DN (mm)	PN (bar)	kv-100-value (Δp=1 bar) (l/min)	Code	Weight (kg)	Dos (mm)	H (mm)	Lmax (mm)	M1 (mm)	M2 (mm)	z (mm)
16	44	12	16	16.3	**138 984 005**	0.739	69	108	232	14	84	97
20	48	15	16	16.3	**138 984 006**	0.732	69	108	232	14	84	97
25	54	20	16	29.5	**138 984 007**	1.155	86	111	246	14	84	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



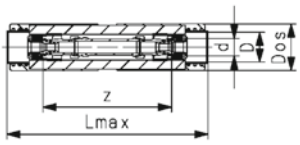
d (mm)	D (mm)	DN (mm)	PN (bar)	kv-100-value (Δp=1 bar) (l/min)	Code	Weight (kg)	Dos (mm)	Lmax (mm)	z (mm)
16	44	12	10	30.8	**138 984 025**	0.625	69	252	82
20	48	15	10	30.8	**138 984 026**	0.669	69	252	86



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



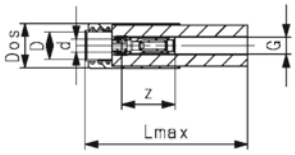
d (mm)	D (mm)	DN (mm)	PN (bar)	kv-100-value (Δp=1 bar) (l/min)	Code	Weight (kg)	Dos (mm)	Lmax (mm)	z (mm)
25	54	20	10	83.3	**138 984 027**	1.338	86	332	238
32	61	25	10	83.3	**138 984 028**	1.328	86	332	238



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



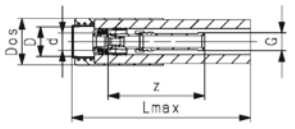
d (mm)	D (mm)	Thread	Size (inch)	DN (mm)	PN (bar)	kv-100-value (Δp=1 bar) (l/min)	Code	Weight (kg)	Dos (mm)	Lmax (mm)	z (mm)
16	44	G	¾	12	10	30.8	**138 984 015**	0.426	69	252	72
20	48	G	¾	15	10	30.8	**138 984 016**	0.448	69	252	83



COOL-FIT 2.0 Push System Flow control valve
With iFIT and G-thread connection

Model:

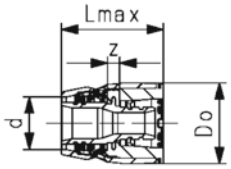
- Flow control valve made of brass, impact resistant plastic and EPDM seals
- One side connection to COOL-FIT 2.0 Push System
- One side connection with thread
- Measuring range: 8.0 – 30.0 (l/min)
- Measuring accuracy: ±10% of the displayed value
- Insulation made of NBR and shells of TPE
- Package 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

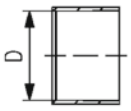
Model:

- Adapter made of high-performance plastic PPSU
- Compression ring made of PP-H
- Package contents: 1x adaptor, 1x compression ring

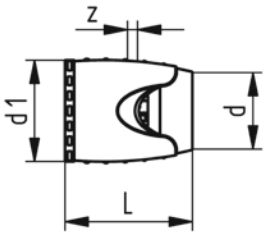
Note:

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





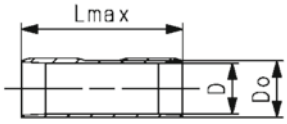


iFIT Adaptor PPSU

- 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



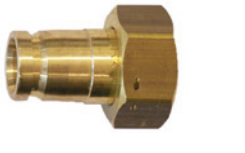


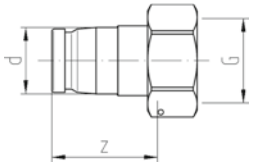
COOL-FIT 2.0 Push System Pipe shell

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

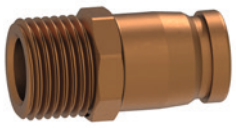


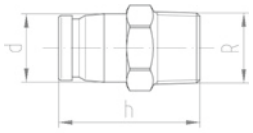


iFIT Transition union module brass
With flat sealed

- 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

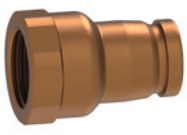


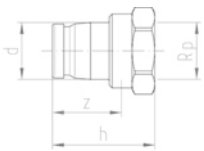


iFIT Transition module gunmetal lead-free
With male thread

- 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

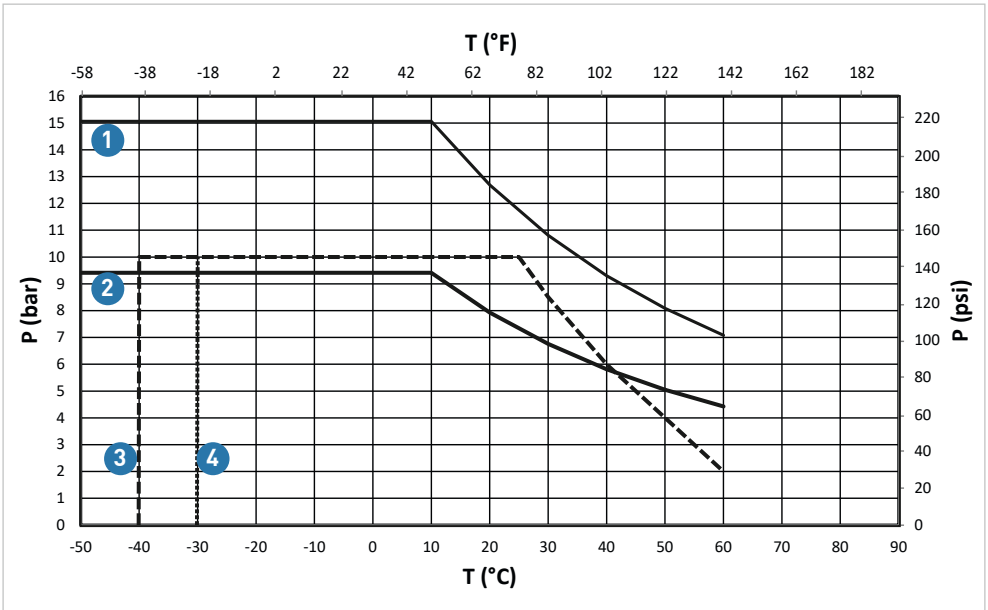
The pressure resistance for thermoplastic pipe for water is always specified at +20 °C. At higher temperatures allowance must be made for a lower maximum operating pressure.

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.

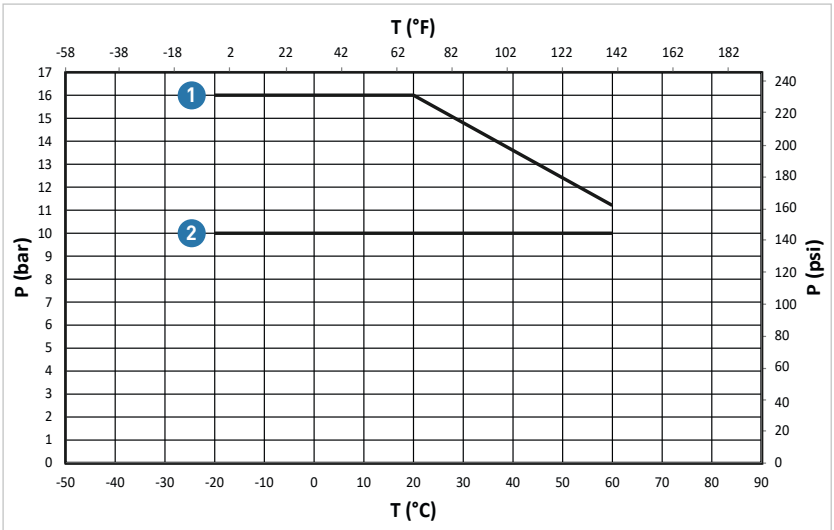


P Allowable pressure (bar, psi)
T Temperature (°C, °F)
C Safety factor

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

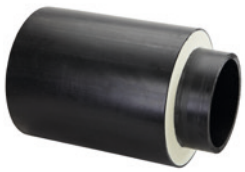
For detailed information on resistance and reduction factors, see Planning Fundamentals "Material selection – Chemical resistance".

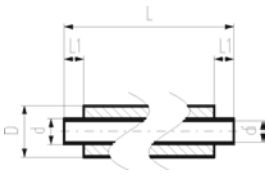
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COOL-FIT 4.0 Pipes and Fittings







COOL-FIT 4.0 Pipe
d32-d450

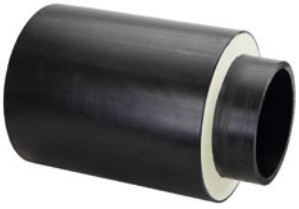
Model:

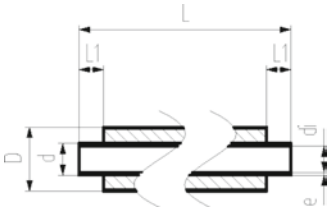
- Pre-insulated PE100 SDR11/17 metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- Length: 5m for d32-d225, 5.9m for d250-d450
- With free ends for electrofusion

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:

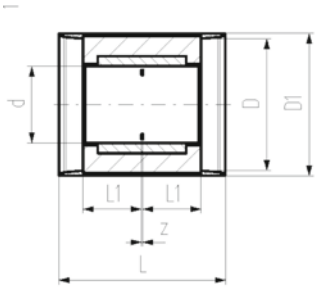
- Pre-insulated PE100 SDR11 metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- Lenght: 5m for d160+d225, 5.9m for d250-d450
- With free ends for electrofusion

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



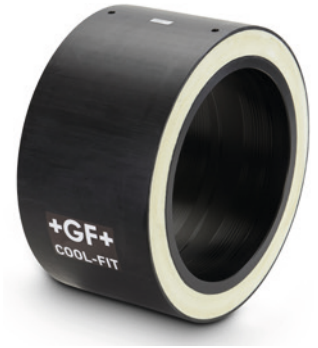


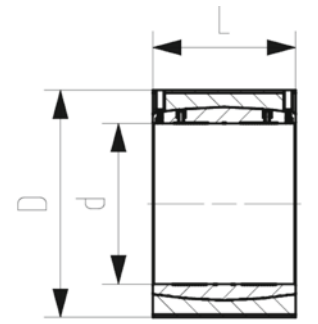
COOL-FIT 4.0 Coupler
d32-d225

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



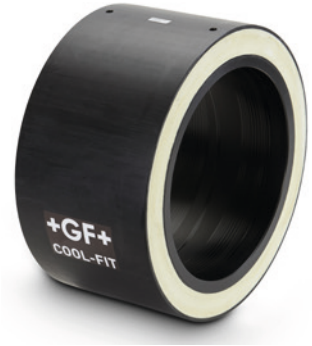


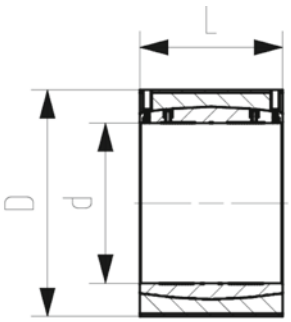
COOL-FIT 4.0 Coupler
d250-d450

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:

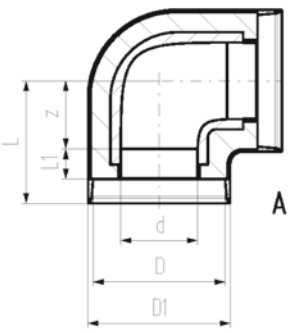
- Pre-insulated PE100 SDR11 metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black

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



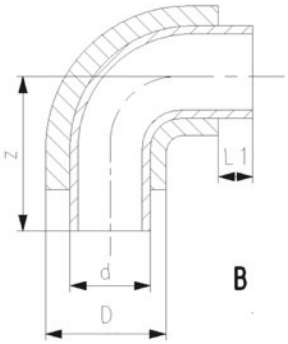
COOL-FIT 4.0 Bend 90°
d250-d450

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



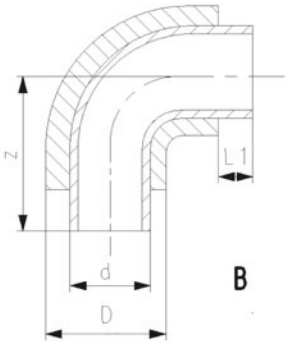
COOL-FIT 4.0 Bend 90°
d250-d450, SDR11

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)

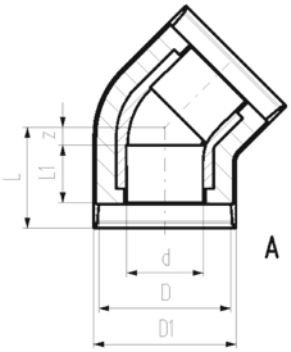
Note:

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





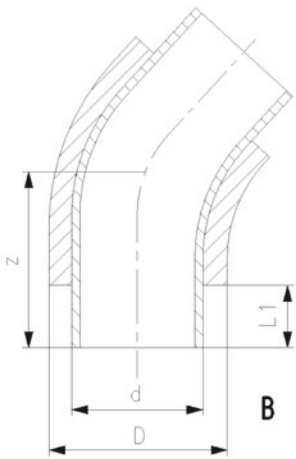
COOL-FIT 4.0 Elbow 45°
d32-d225

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

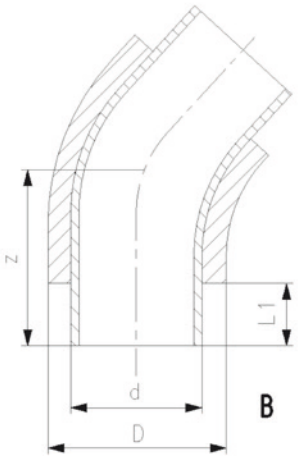
Model:

- 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



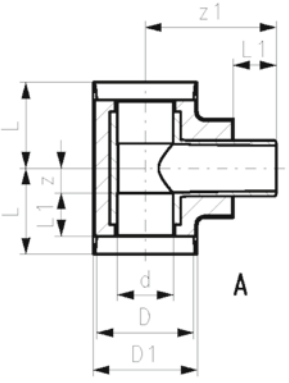


COOL-FIT 4.0 T90° equal
d32-d225

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





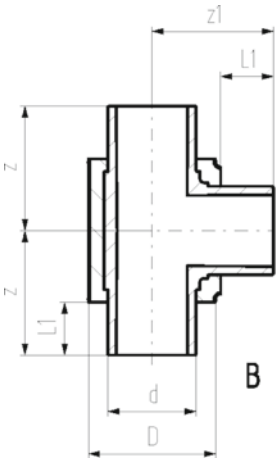
COOL-FIT 4.0 T90° equal d250-d450, SDR11

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



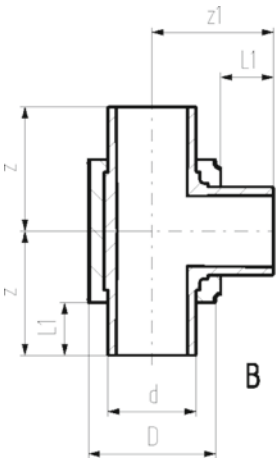
COOL-FIT 4.0 T90° equal d250-d450

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)

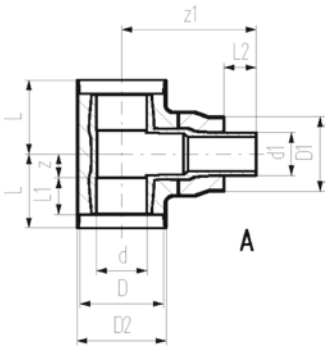
Note:

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:

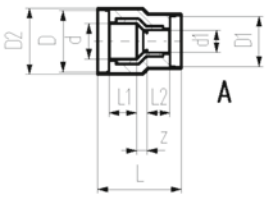
- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a water and vapour tight sealing

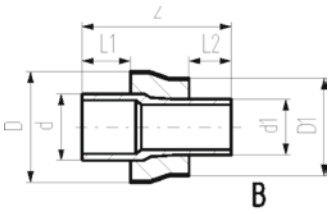
d (mm)	d1 (mm)	D (mm)	D1 (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)
75	63	140	125	65	11	16	**738 203 218**	0.863
90	63	160	125	80	11	16	**738 203 222**	1.232
90	75	160	140	80	11	16	**738 203 223**	1.293
110	63	180	125	100	11	16	**738 203 227**	1.972
110	75	180	140	100	11	16	**738 203 228**	1.949
110	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

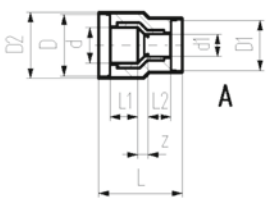
Model:

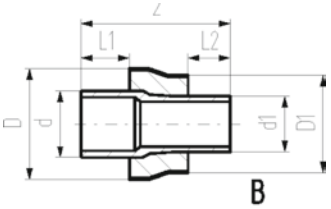
- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a water and vapour tight sealing
- B: Spigot Fitting with free end
- 738 904 351 and 738 904 368 for direct transitions from 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



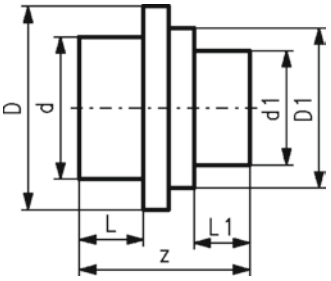
COOL-FIT 4.0 Reducer
d250-d450

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



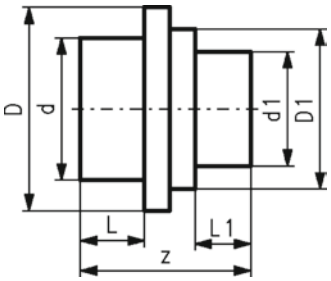
COOL-FIT 4.0 Reducer
d250-d450, SDR11

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:

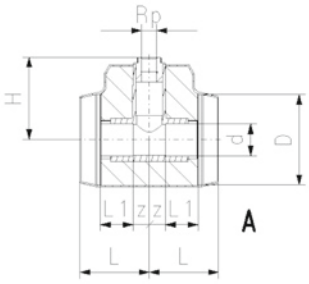
Peeling of free ends necessary prior to jointing
Make to order

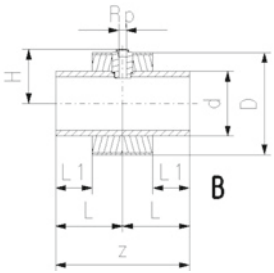


d (mm)	d1 (mm)	D (mm)	D1 (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)	Type
250	225	355	315	250	11	16	**738 903 925**	5.365	123	110	332	B
280	225	400	315	250	11	16	**738 903 929**	6.750	126	110	335	B
280	250	400	355	250	11	16	**738 903 930**	7.228	126	123	340	B
315	225	450	315	300	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

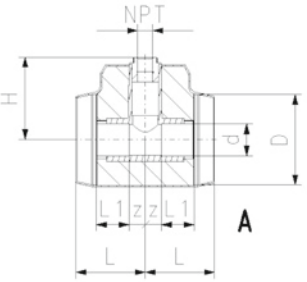
Model:

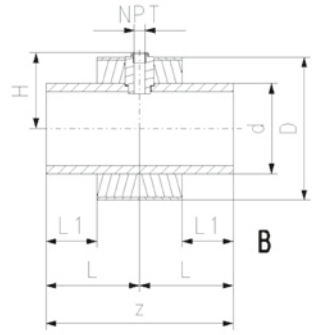
- Pre-insulated, PE100, SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- With threaded branch for sensors (i.e temperature, pressure)
- A: Electrofusion Fitting with integrated sealing lip, for a water and vapour tight sealing
- B: Spigot Fitting with free end

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

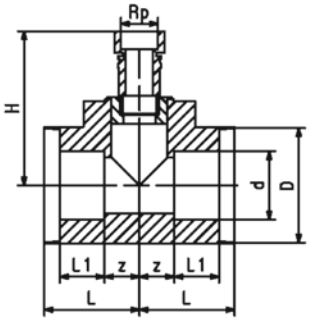
Model:

- 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





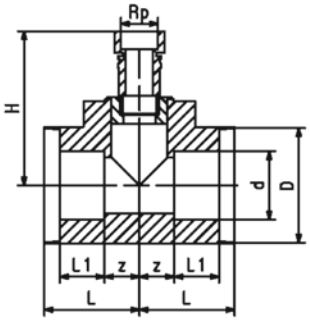
COOL-FIT 4.0 Transition Tee90° PE/brass
With female thread Rp

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





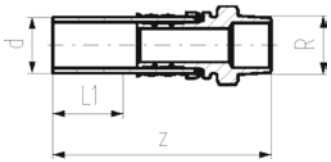
COOL-FIT 4.0 Transition Tee90° PE/stainless steel
With female thread Rp

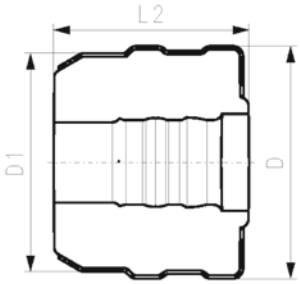
Model:

- 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







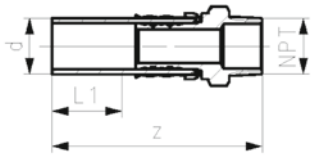
COOL-FIT 4.0 Adaptor fitting PE/stainless steel With male thread R

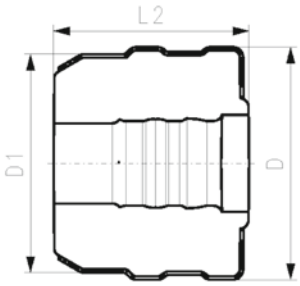
Model:

- 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

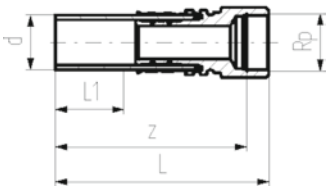
d (mm)	D (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	D1 (mm)	L1 (mm)	L2 (mm)	z (mm)
32	103	NPT	½	25	11	16	**738 943 808**	0.224	90	36	80	129
32	103	NPT	¾	25	11	16	**738 943 818**	0.232	90	36	80	133
32	103	NPT	1	25	11	16	**738 943 828**	0.241	90	36	80	134
40	128	NPT	1 ¼	32	11	16	**738 943 809**	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

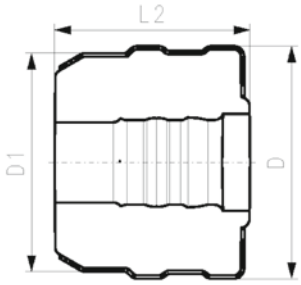


COOL-FIT 4.0 Adaptor fitting PE/stainless steel
With female thread Rp

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





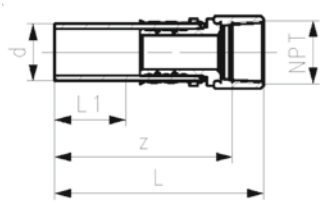
d (mm)	D (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	D1 (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)
32	104	Rp	½	25	11	16	**738 943 008**	0.247	90	132	36	101	118
32	104	Rp	¾	25	11	16	**738 943 018**	0.272	90	132	36	101	116
32	104	Rp	1	25	11	16	**738 943 028**	0.297	90	132	36	101	115
40	128	Rp	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

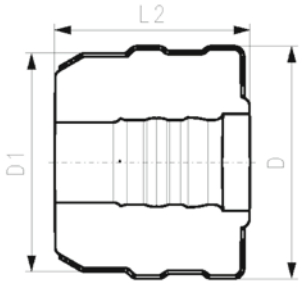


COOL-FIT 4.0 Adaptor fitting PE/stainless steel
With female thread NPT

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





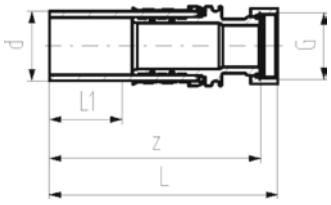
d (mm)	D (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	D1 (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)
32	104	NPT	½	25	11	16	**738 943 408**	0.247	90	132	36	101	114
32	104	NPT	¾	25	11	16	**738 943 418**	0.272	90	132	36	101	114
32	104	NPT	1	25	11	16	**738 943 428**	0.297	90	132	36	101	114
40	128	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

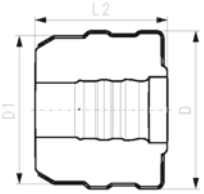


COOL-FIT 4.0 Adaptor fitting PE/stainless steel
With loose union nut G

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





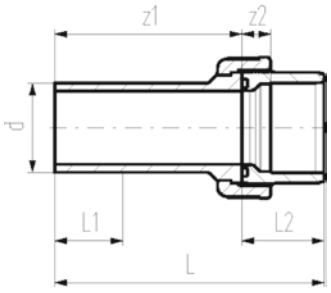
d (mm)	D (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	D1 (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)
32	104	G	½	25	11	16	**738 943 308**	0.250	90	133	36	101	126
32	104	G	¾	25	11	16	**738 943 318**	0.264	90	135	36	101	129
32	104	G	1	25	11	16	**738 943 328**	0.296	90	135	36	101	129
40	128	G	1 ¼	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

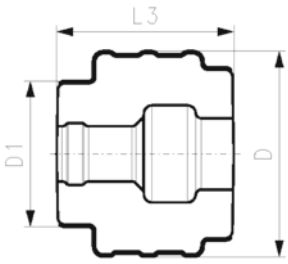


COOL-FIT 4.0 Adaptor union PE/ABS

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





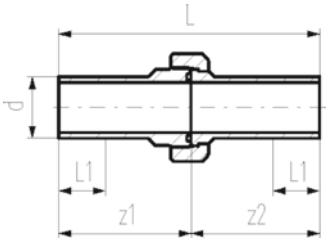
d (mm)	D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	D1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	z1 (mm)	z2 (mm)
32	134	25	11	10	**738 513 708**	0.169	90	137	36	33	109	104	11
40	143	32	11	10	**738 513 709**	0.256	110	156	40	39	126	117	13
50	154	40	11	10	**738 513 710**	0.334	110	169	44	46	135	123	15
63	172	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

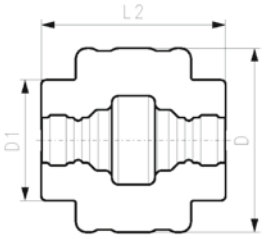


COOL-FIT 4.0 Union PE/PE

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





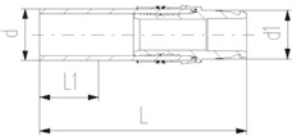
d (mm)	D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	D1 (mm)	L (mm)	L1 (mm)	L2 (mm)	z1 (mm)	z2 (mm)
32	139	25	11	16	**738 513 608**	0.223	90	211	36	139	107	104
40	153	32	11	16	**738 513 609**	0.363	110	234	40	158	118	116
50	165	40	11	16	**738 513 610**	0.468	110	247	44	163	124	123
63	185	50	11	16	**738 513 611**	0.584	125	268	48	176	136	132

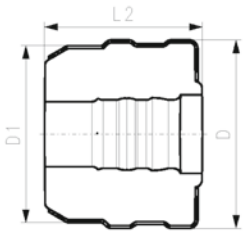


COOL-FIT 4.0 Adaptor fitting PE/iFIT

Model:

- Spigot fitting PE100 SDR11, metric with free end
- iFIT module stainless steel 1.4404 / 316L
- Including insulation half shells

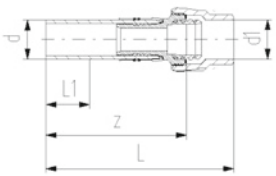


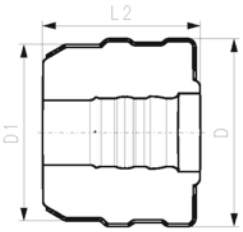


d (mm)	D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	d1 (mm)	D1 (mm)	L (mm)	L1 (mm)	L2 (mm)
32	103	25	11	10	**738 943 108**	0.256	25-32	90	132	36	80

COOL-FIT 4.0 Adaptor fitting PE/Sanipex MT







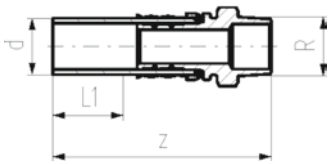
Model:

- 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





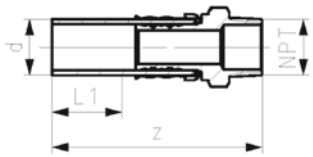
Model:

- 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

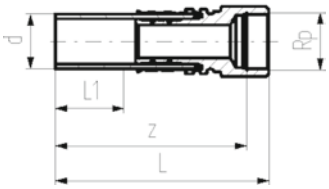
d (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)
32	NPT	½	25	11	16	**738 940 808**	0.179	132	36	118
32	NPT	¾	25	11	16	**738 940 818**	0.187	132	36	116
32	NPT	1	25	11	16	**738 940 828**	0.196	132	36	115
40	NPT	1 ¼	32	11	16	**738 940 809**	0.572	157	40	141
50	NPT	1 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



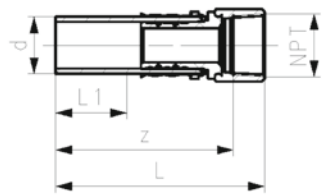
d (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)
32	Rp	½	25	11	16	**738 940 008**	0.183	132	36	118
32	Rp	¾	25	11	16	**738 940 018**	0.208	132	36	116
32	Rp	1	25	11	16	**738 940 028**	0.233	132	36	115
40	Rp	1 ¼	32	11	16	**738 940 009**	0.600	157	40	141
50	Rp	1 ½	40	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



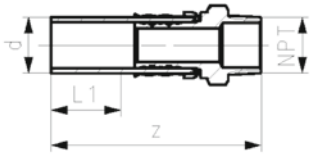
d (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)
32	NPT	½	25	11	16	**738 940 408**	0.183	132	36	114
32	NPT	¾	25	11	16	**738 940 418**	0.208	132	36	114
32	NPT	1	25	11	16	**738 940 428**	0.233	132	36	114
40	NPT	1 ¼	32	11	16	**738 940 409**	0.600	147	40	125
50	NPT	1 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

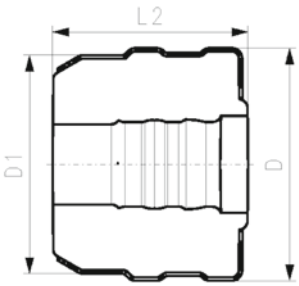


COOL-FIT 4.0 Adaptor fitting PE/stainless steel with male thread NPT

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





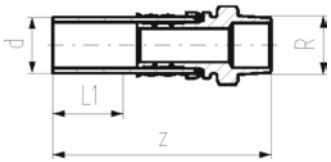
d (mm)	D (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	D1 (mm)	L1 (mm)	L2 (mm)	z (mm)
32	103	NPT	½	25	11	16	**738 943 808**	0.224	90	36	80	129
32	103	NPT	¾	25	11	16	**738 943 818**	0.232	90	36	80	133
32	103	NPT	1	25	11	16	**738 943 828**	0.241	90	36	80	134
40	128	NPT	1 ¼	32	11	16	**738 943 809**	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



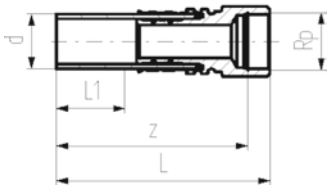
d (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L1 (mm)	z (mm)
32	R	½	25	11	16	**738 950 508**	0.188	36	130
32	R	¾	25	11	16	**738 950 518**	0.196	36	134
32	R	1	25	11	16	**738 950 528**	0.206	36	134
40	R	1 ¼	32	11	16	**738 950 519**	0.608	40	156
50	R	1 ½	40	11	16	**738 950 510**	0.986	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



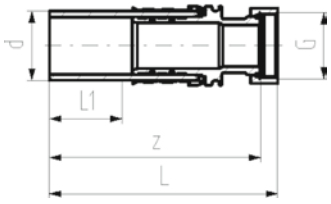
d (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)
32	Rp	½	25	11	16	**738 950 008**	0.192	132	36	118
32	Rp	¾	25	11	16	**738 950 018**	0.219	132	36	116
32	Rp	1	25	11	16	**738 950 028**	0.246	132	36	115
40	Rp	1 ¼	32	11	16	**738 950 019**	0.641	157	40	141
50	Rp	1 ½	40	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:

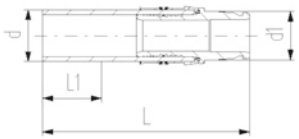
- Spigot fitting PE100 SDR11, metric with free end
- Brass CuZn40Pb2 with loose union nut G
- Including flat seal EPDM



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





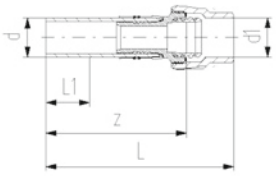
Model:

- 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





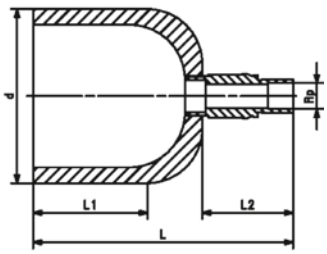
Model:

- 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

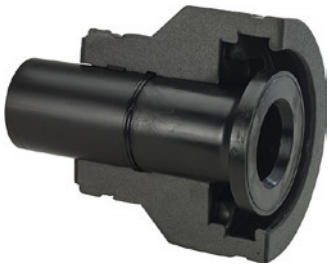




Model:

- 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



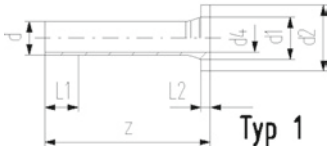
COOL-FIT 2.0/4.0 Flange adaptor

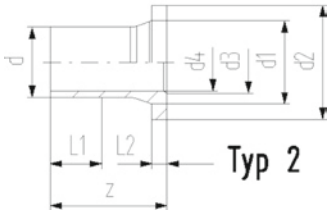
Model:

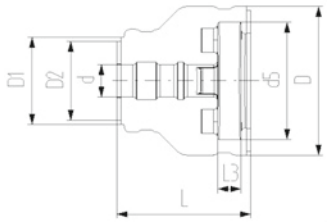
- PE100 SDR11, metric
- Suitable for flange connections to metric and/or ANSI/ASME B16.5
- Type 1 without chamfer, Type 2 with chamfer
- Profile flange gasket EPDM: metric No. 48 44 07, ANSI No. 48 44 05.
- Separate Fittings type A needed for joining

Note:

Backing ring and gasket not included





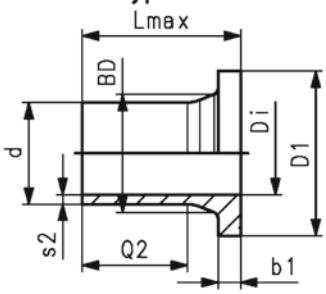


d (mm)	DN (mm)	SDR	PN	Type	Code	Weight (kg)
32	25	11	16	1	**738 710 008**	0.320
32	25	11	16	1	**738 710 108**	0.320
40	32	11	16	1	**738 710 009**	0.480
40	32	11	16	1	**738 710 109**	0.480
50	40	11	16	1	**738 710 010**	0.620
63	50	11	16	1	**738 710 011**	0.910
50	40	11	16	1	**738 710 110**	0.620
75	65	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

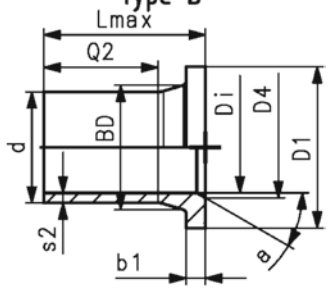
d (mm)	D (mm)	d1 (mm)	D1 (mm)	d2 (mm)	D2 (mm)	d3 (mm)	d4 (mm)	d5 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	Standard	z (mm)
32	135	40	90	68			26	121	162	36	10	26	Metric	190
32	135	40	90	63	63		26	121	162	36	10	26	ANSI	190
40	170	50	110	78	90		32	146	165	40	11	28	Metric	197
40	170	50	110	73	73		32	146	165	40	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:

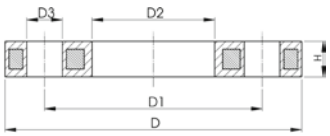
- For IR, butt and electrofusion welding according to DVS 2207
- Type A: without chamfer
- Type B: with chamfer
- Type 567/578 suitable for plastic butterfly valves up to DN300
- Type 565 for DN 300, the ecoFIT special flange adapter ** SDR17 is required
- Type 038/039/044/065 for metal butterfly valves 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

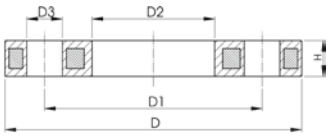
Model:

- 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

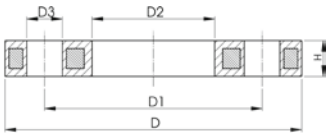
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	d (mm)	DN (mm)	D (mm)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
	280	250	395	16	Metric	PN10	Socket	**727 700 822**	5.547
*, **	315	300	455	16	Metric	PN16	Butt	**724 700 323**	9.740
	315	300	445	16	Metric	PN10	Butt	**727 700 723**	7.903
	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

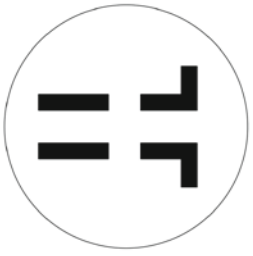
	d (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
	20	65	28	14	12	4	M12
	20	60	28	16	12	4	M12
	25	75	34	14	12	4	M12
	25	70	34	16	12	4	M12
	32	85	42	14	16	4	M12
	32	79	42	16	16	4	M12
	40	100	51	18	16	4	M16
	40	89	51	16	16	4	M16
	50	110	62	18	20	4	M16
	50	98	62	16	18	4	M16
	63	125	78	18	20	4	M16
	63	121	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

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	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:

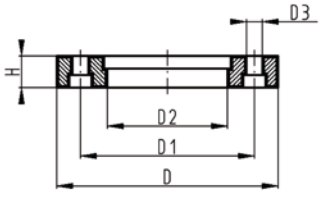
- Ductile iron (GGG 40), stoved epoxy (black, DIN30677)
- Metric: ISO 7005, EN 1092, ISO 9624

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

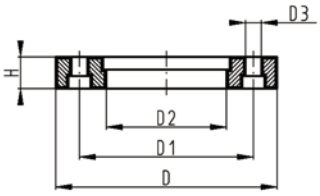


	d (mm)	DN (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	AL	SC
	125	125	250	210	135	18	25	8	M16
	450	500	715	650	517	33	46	20	M30
	500	500	715	650	533	33	46	20	M30
	560	600	840	770	618	36	55	20	M33

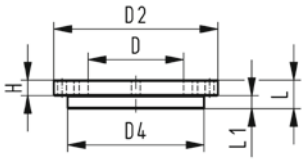
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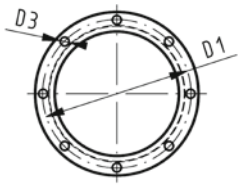


d (mm)	DN (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	AL	SC
630	600	840	770	645	36	55	20	M33
710	700	900	840	740	30	45	24	M27
800	800	1015	950	843	33	53	24	M30
900	900	1115	1050	947	33	56	28	M30
1000	1000	1230	1160	1050	36	62	28	M33
1200	1200	1455	1380	1260	39	68	32	M36









Blanking flange set PE100
Combined jointing face flat and serrated metric

Model:

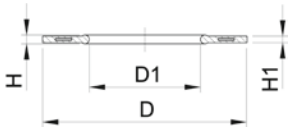
- d63 - d315: backing flange PP-V with end blank PE
- d355 - d630: backing flange PP/Steel with end blank PE
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- **Bolt circle PN 10**

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

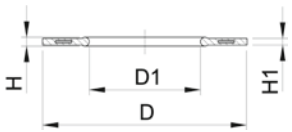
Model:

- 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





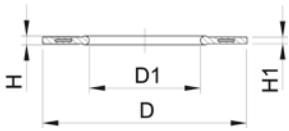
Profile Flange Gasket EPDM/FKM ANSI/ASME

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

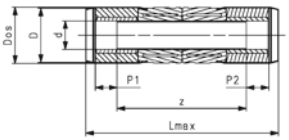
d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	Inch (inch)	D (mm)	D1 (mm)	H (mm)	H1 (mm)
25	20	**748 440 502**	0.010	**749 440 502**	0.011	3/4	54	27	4	3
32	25	**748 440 503**	0.011	**749 440 503**	0.023	1	64	33	4	3
40	32	**748 440 504**	0.017	**749 440 504**	0.024	11/4	73	42	4	3
50	40	**748 440 505**	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





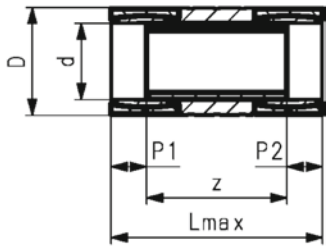
COOL-FIT 4.0 Sliding coupler kit

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

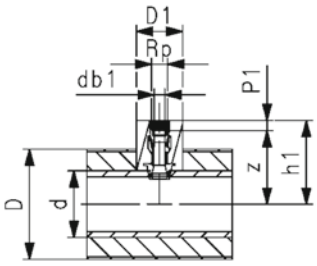
Model:

- 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:

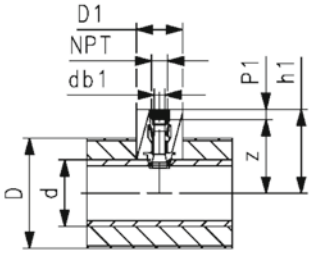
- Material: PE100, Stainless steel V4A/ 316L
- With Weld-in port cone (PE100) and female thread Rp (stainless steel) for the installation of sensors, instruments, venting and draining
- Gasket: O-ring EPDM
- Including insulation made from EPDM foam

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



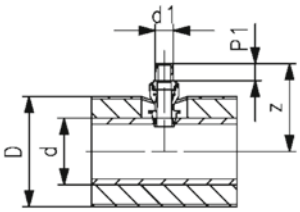
COOL-FIT 2.0/4.0 Weld-in port PE/iFIT

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



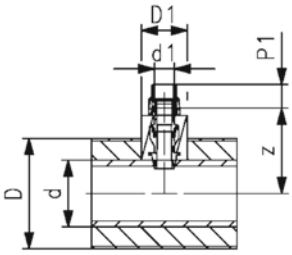
COOL-FIT 4.0 Weld-in port PE/Sanipex MT

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



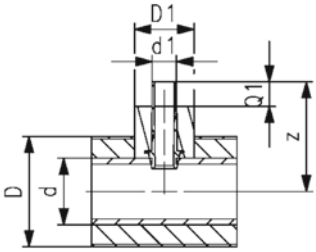
COOL-FIT 4.0 Weld-in port PE spigot

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:

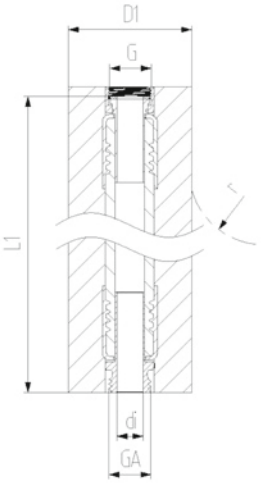
For pipes COOL-FIT 4.0 and COOL-FIT 4.0F



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

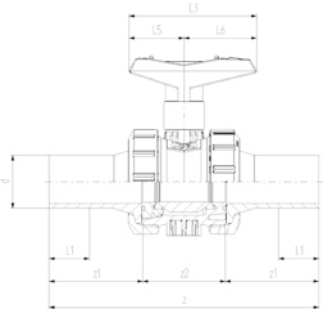
COOL-FIT 4.0 Valves



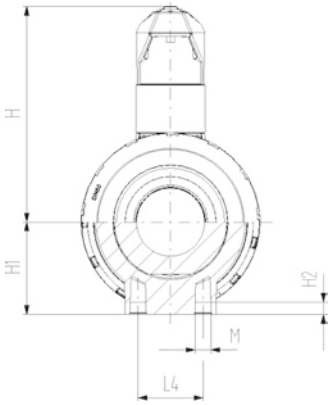
COOL-FIT 4.0 Ball valve type 546 Pro hand-operated

Model:

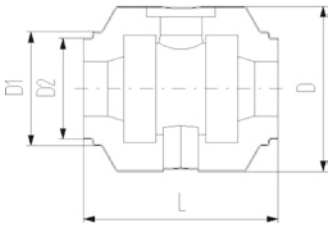
- Material: ABS with spigot PE100 SDR11, metric
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Including insulation half shells
- Separate Fittings type A needed for joining



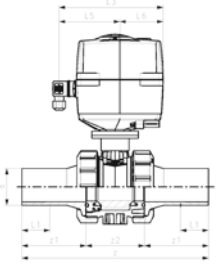
d (mm)	DN (mm)	PN	kv-value (Δp=1 bar) (l/min)	SDR	EPDM Code	Weight (kg)
32	25	10	700	11	**138 546 108**	0.542
40	32	10	1000	11	**138 546 109**	0.887
50	40	10	1600	11	**138 546 110**	1.165
63	50	10	3100	11	**138 546 111**	2.100
75	65	10	5000	11	**138 546 112**	5.125
90	80	10	7000	11	**138 546 113**	7.173

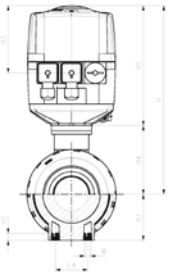


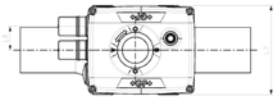
d (mm)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	L3 (mm)	H (mm)	H1 (mm)	H2 (mm)	z (mm)	z1 (mm)	z2 (mm)
32	135	97	82	152	36	97	98	36	12	223	76	76
40	157	117	97	170	40	128	119	44	15	249	82	82
50	169	117	97	184	44	128	125	51	15	271	91	91
63	204	132	117	227	48	152	150	64	15	321	110	110
75	235	147	132	276	55	270	194	85	15	386	125	125
90	255	168	147	297	62	270	200	105	15	421	140	140

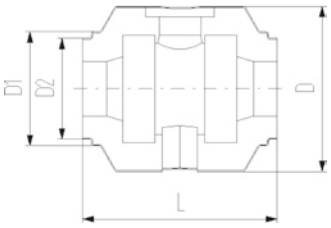












COOL-FIT 4.0 Ball valve type 179
100-230V

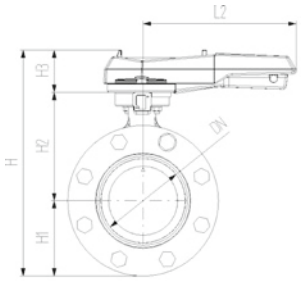
Model:

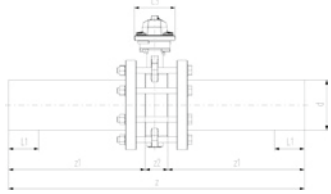
- Material: ABS with spigot PE100 SDR11, metric
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Voltage 100-230V, 50-60Hz
- Factory set control range 90°
- Heating element, position feedback (Open/Close/ Middle)
- Including insulation half shells
- Separate Fittings type A needed for joining

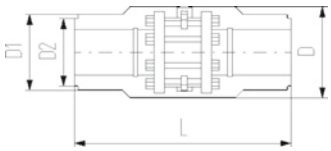
d (mm)	DN (mm)	PN (bar)	kv-value (dp=1bar)	SDR	Code	Weight (kg)
32	25	10	700	11	**138 546 208**	2.838
40	32	10	1000	11	**138 546 209**	3.174
50	40	10	1600	11	**138 546 210**	3.452
63	50	10	3100	11	**138 546 211**	4.475
75	65	10	5000	11	**138 546 212**	7.156
90	80	10	7000	11	**138 546 213**	13.000

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

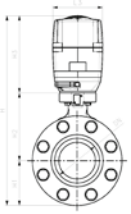
Model:

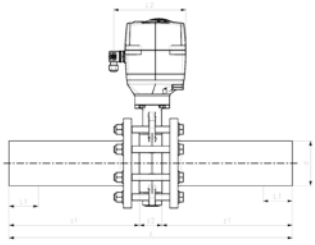
- Material: ABS with spigot PE100 SDR11, metric
- Including flange adaptors, backing flanges PP-Steel, bolts and insulation half shells
- Separate Fittings type A needed for joining

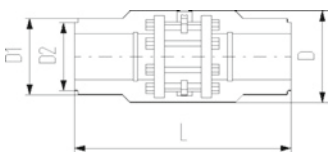
d (mm)	DN (mm)	PN	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
110	100	10	6500	**138 567 114**	8.950
140	125	10	11500	**138 567 116**	15.751
160	150	10	16600	**138 567 117**	17.975
225	200	10	39600	**138 567 120**	28.316

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

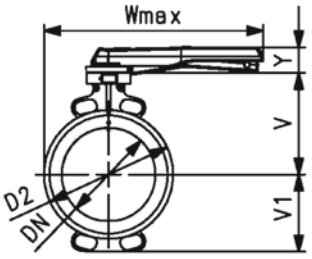
d (mm)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	z (mm)	z1 (mm)	z2 (mm)
110	310	188	168	552	72	179	122	460	104	167	190	696	320	56
140	280	233	222	670	84	172	179	475	119	173	183	830	383	64
160	358	259		720	90	179	122	535	143	203	190	895	412	72
225	409	325		776	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)

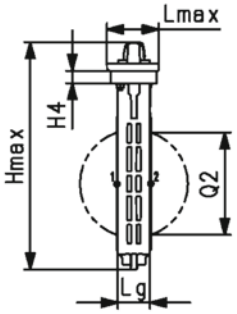


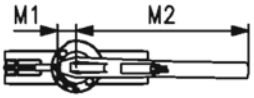
Option:

- 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:

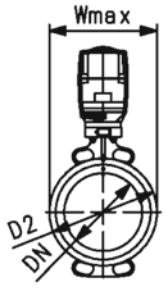
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Voltage 100-230V, 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

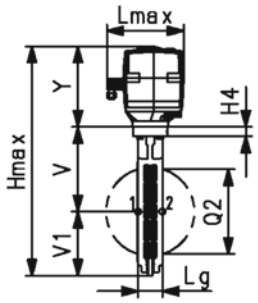
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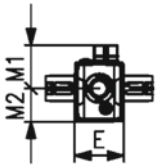
- Individual configuration of the valve possible
- Hand or pneumatic actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board
- Additional manual override between valve 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



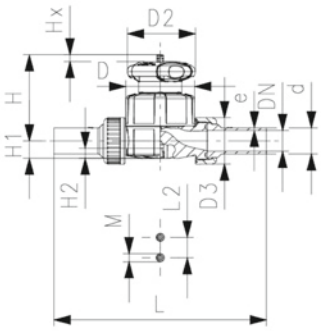




d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	10	1445	EA45	**199 565 300**	3.3	**199 565 320**	3.4
75	65	2 ½	10	2530	EA120	**199 565 301**	4.6	**199 565 321**	4.7
90	80	3	10	4020	EA120	**199 565 302**	4.7	**199 565 322**	4.8
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

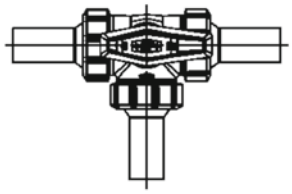
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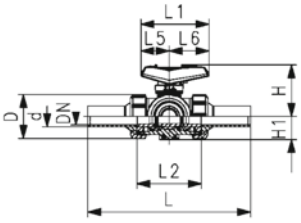
- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

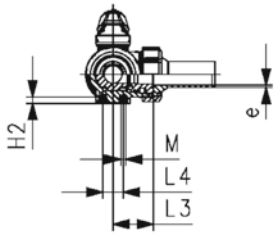
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code
20	15	½	10	125	**169 514 312**
25	20	¾	10	271	**169 514 313**
32	25	1	10	481	**169 514 314**
40	32	1 ¼	10	759	**169 514 315**
50	40	1 ½	10	1263	**169 514 316**
63	50	2	10	1728	**169 514 317**

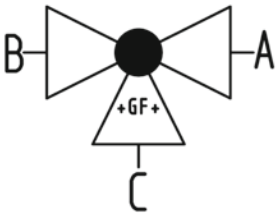
d (mm)	DN (mm)	D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)	closest inch (inch)
20	15	65	65	43	73	14	12	230	25	M6	96	7	½
25	20	80	65	51	81	18	12	256	25	M6	114	10	¾
32	25	88	87	58	107	22	12	268	25	M6	122	13	1
40	32	101	87	72	115	26	15	302	45	M8	140	15	1 ¼
50	40	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)

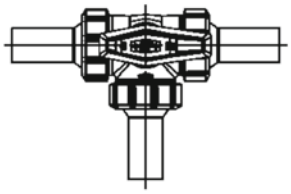
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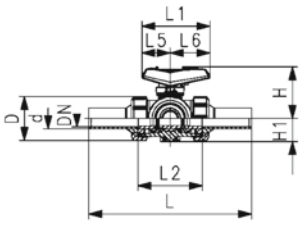
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

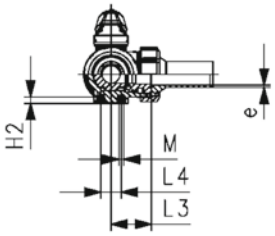
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
20	15	½	10	75	**169 543 302**	0.203
25	20	¾	10	150	**169 543 303**	0.296
32	25	1	10	280	**169 543 304**	0.450
40	32	1 ¼	10	480	**169 543 305**	0.762
50	40	1 ½	10	620	**169 543 306**	1.161
63	50	2	10	1230	**169 543 307**	2.509

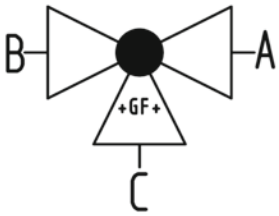
d (mm)	DN (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	H (mm)	H1 (mm)	H2 (mm)	M	e (mm)	closest inch (inch)
20	15	50	210	82	73	36	25	35	47	61	28	8	6	1.9	½
25	20	58	237	106	86	43	25	44	62	74	32	8	6	2.3	¾
32	25	68	251	106	99	50	25	44	62	80	36	8	6	2.9	1
40	32	84	283	131	120	60	45	57	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

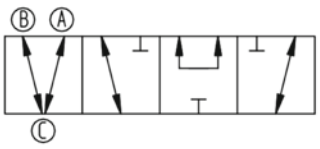












ecoFIT 3-Way ball valve type 543 Pro ABS
Horizontal/T-port
With butt fusion spigots long PE100 SDR11 metric

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

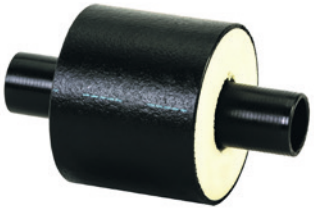


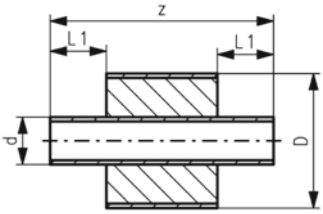
COOL-FIT 4.0 Assembly Aid-Kit Type A

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





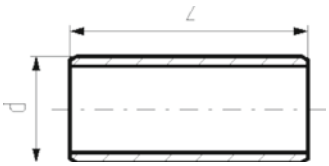
COOL-FIT 4.0 Barrel nipple with insulation, d32-d225

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

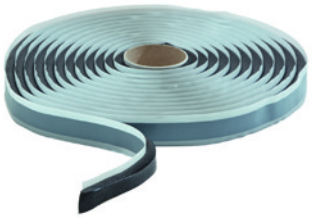


COOL-FIT 2.0/4.0 adhesive ring

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

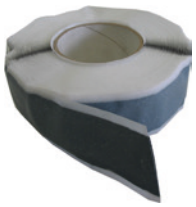


COOL-FIT 4.0 Transition of Insulation

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



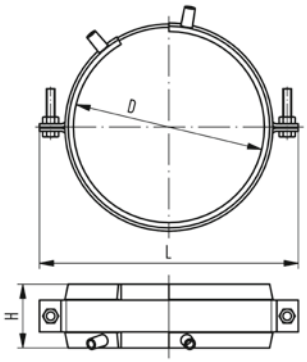
Cold shrink tape PE black

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





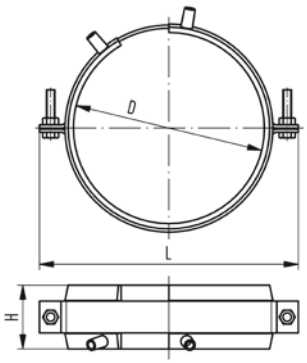
COOL-FIT 2.0/4.0 Fixed point

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



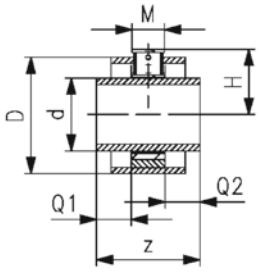
D (mm)	d (mm)	L (mm)	H (mm)	max Force COOL-FIT 4.0 (kN)	max Force COOL-FIT 2.0 (kN)
75	32	150	60		2.0
90	32 - 50	170	60	2.0	3.0 / 5.0
110	40 - 63	180	60	3.0 / 5.0	8.0
125	63 - 75	215	60	8.0	10.0
140	75 - 90	220	60	10.0	10.0
160	90 - 110	255	60	10.0	10.0
180	110	255	60	10.0	
200	140	310	60		10.0
225	140	310	60	10.0	
250	160	335	60	10.0	
315	225	400	60	10.0	
355	250	420	60	10.0	



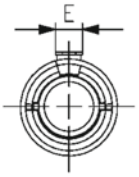
COOL-FIT 4.0 Fixpoint kit for high forces

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



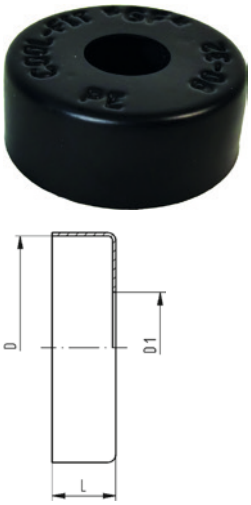
d (mm)	z (mm)	Q1 (mm)	Q2 (mm)	Dos (mm)	H (mm)	M (mm)	E (mm)	Wrench size (mm)	max. Force (kN)
140	268	84	84	251	136.5	100	100	24	35
160	280	90	90	283	165.5	100	100	24	35
225	320	110	110	360	205.0	100	100	24	35
250	346	123	123	391	213.5	100	100	24	35
280	352	126	126	436	231.0	100	100	24	35
315	366	133	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



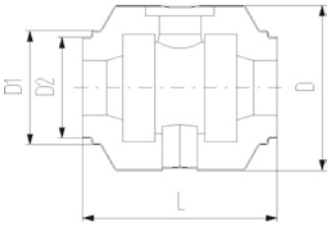
COOL-FIT 2.0/4.0 Insulation for ball valve type 546 / 542

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



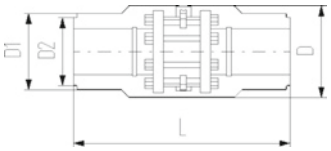
COOL-FIT 2.0/4.0 Insulation for Butterfly Valve Type 567

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



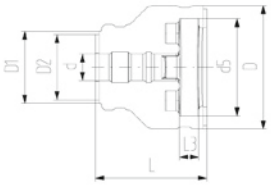
COOL-FIT 2.0/4.0 Insulation for flange adaptor

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)

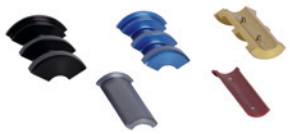
Code	Weight (kg)	Suitable for
799 738 115	0.100	799 738 004
799 738 117	0.080	799 738 013



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



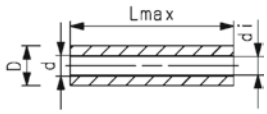
Spare blades for deburring tool

- 10 pieces

Code	Weight (kg)
790 205 083	0.031

COOL-FIT 4.0 Push System Pipes and Fittings





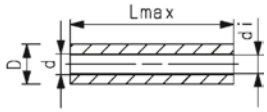
COOL-FIT 4.0 Push System, Pipe bar

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





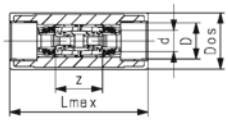
COOL-FIT 4.0 Push System, Pipe coiled

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





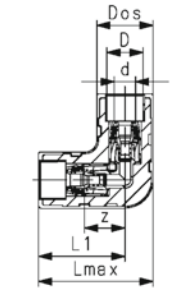
COOL-FIT 4.0 Push System, Coupler

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





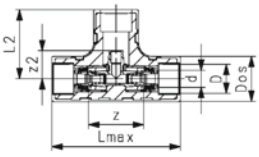
COO-FIT 4.0 Push System, Elbow 90°

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

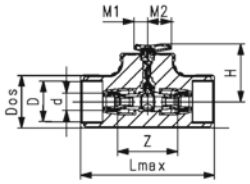
Note:

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





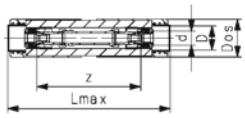
COOL-FIT 4.0 Push System, Ball valve

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:

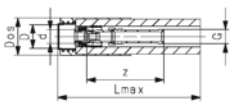
- Flow control valve made of brass, impact resistant plastic and EPDM seals
- Insulation made of NBR and shells of TPE
- Both sides connection to COOL-FIT 4.0 Push System
- Measuring range: 8.0 – 30.0 (l/min)
- Measuring accuracy: ±10% of the displayed value
- Package contents: 1x valve, 2x adaptors, 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:

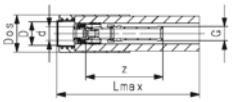
- Flow control valve made of brass, impact resistant plastic and EPDM seals
- Insulation made of NBR and shells of TPE
- One side connection to COOL-FIT 4.0 Push System
- One side connection with thread
- Measuring range: 8.0 – 30.0 (l/min)
- Measuring accuracy: ±10% of the displayed value
- Package 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

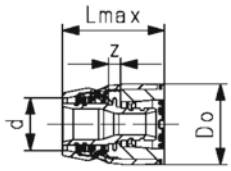
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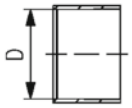


d (mm)	D (mm)	Dos (mm)	Lmax (mm)	z (mm)
25	78	100	332	180
32	85	100	332	180

COOL-FIT 4.0 Push System Accessories







COOL-FIT 4.0 Push System, Adaptor kit

Model:

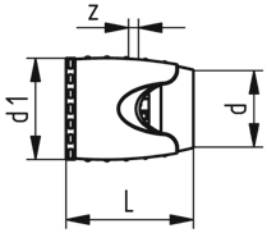
- Adapter made of high-performance plastic PPSU
- Compression ring made of PP-H
- Package contents: 1x adaptor, 1x compression ring

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



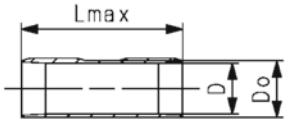


iFIT Adaptor PPSU

- 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





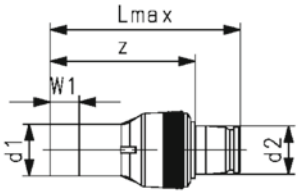
COOL-FIT 4.0 Push System, Pipe shell

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



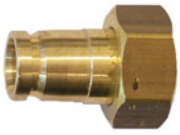


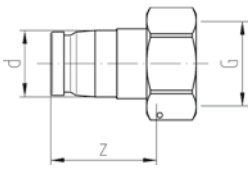
COOL-FIT 2.0/4.0 Adaptor fitting PE/iFIT

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

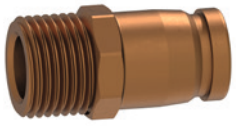


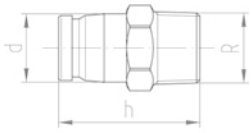


iFIT Transition union module brass With flat sealed

- 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

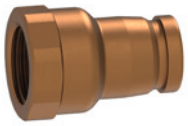


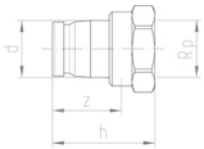


iFIT Transition module gunmetal lead-free
With male thread

- 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.

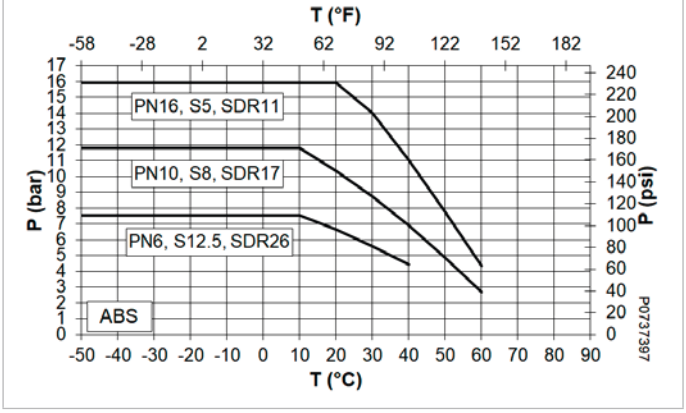
Please take into account the pressure-temperature diagrams for valves and special fittings. Because of the construction and/or sealing material used, differences are possible when compared to pipe and fittings. More information is available in the Planning Fundamentals of the relevant types of valves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

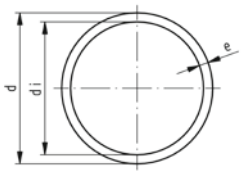


P Permissible pressure (bar, psi)
T Temperature (°C, °F)

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ABS pipes
Metric pipes





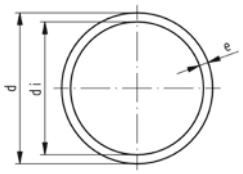
Pipe ABS metric
Nominal pressure PN16 (at 20°C)

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:

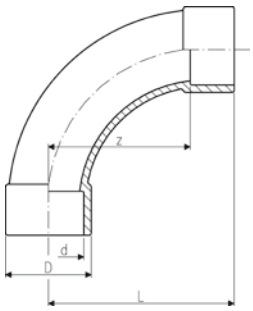
- Colour: RAL 7001, gravel grey
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

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



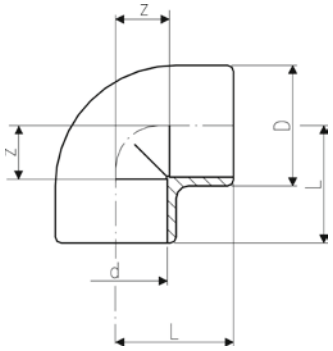


Bend 90° ABS metric

- 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



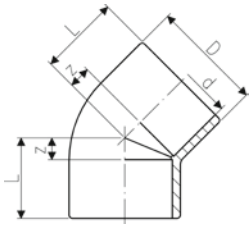


Elbow 90° ABS metric

- >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



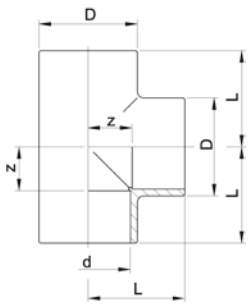


Elbow 45° ABS metric

- >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



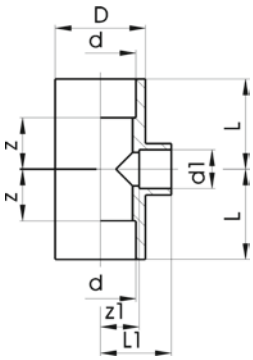


Tee 90° ABS metric

- >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

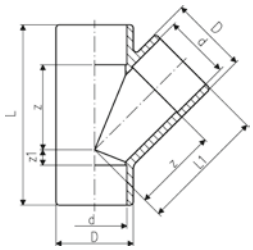




Tee 90° reducing ABS metric

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

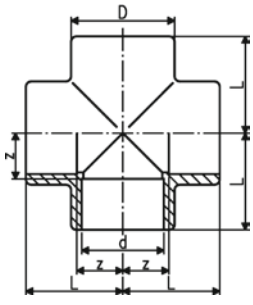




Tee 45° ABS metric

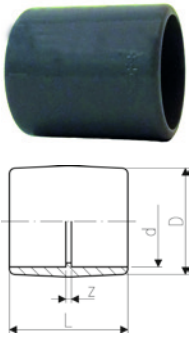
d (mm)	PN (bar)	Size (inch)	Code	Weight (lb)	D (mm)	L (mm)	L1 (mm)	closest inch (inch)	z (mm)	z1 (mm)
20	10		**729 250 106**	0.060	28	68	46	½	30	6
25	10		**729 250 107**	0.095	33	83	55	¾	36	9
32	10		**729 250 108**	0.161	41	99	67	1	45	10
40	10		**729 250 109**	0.271	50	118	82	1 ¼	56	10
50	10		**729 250 110**	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

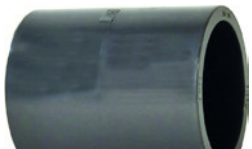
d (mm)	PN (bar)	Code	Weight (lb)	closest inch (inch)	z (mm)	D (mm)	L (mm)
32	10	**729 300 108**	0.154	1	17	43	39
63	10	**729 300 111**	0.791	2	34	79	72
90	10	**729 300 113**	2.066	3	48	106	97



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



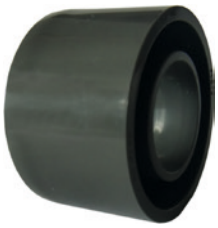
Barrel nipple ABS metric

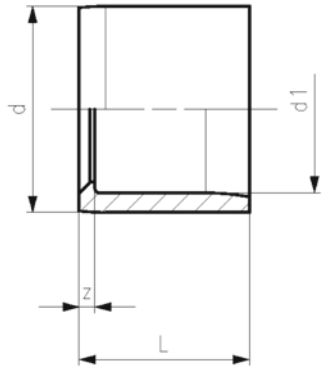
Model:

- 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







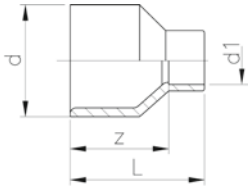
Reducing bush ABS metric

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





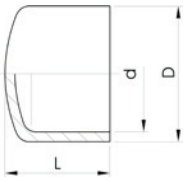
Reducing bush long ABS metric

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

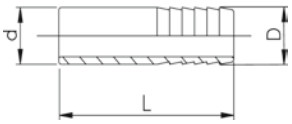




Cap ABS metric

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:

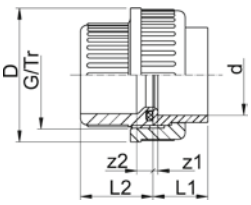
- With solvent cement spigot metric and parallel hose connection

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

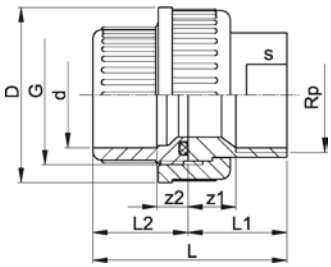
Model:

- 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

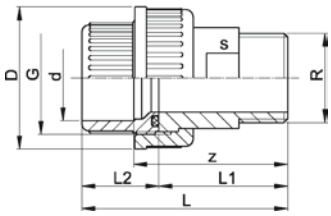
Model:

- 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





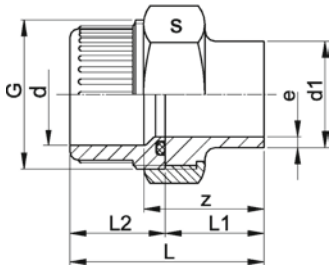
Adaptor union ABS metric stainless steel R

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



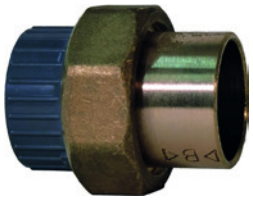


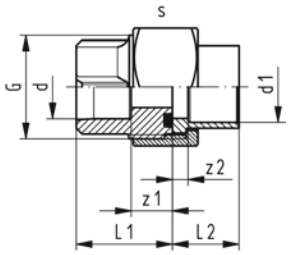
Adaptor union ABS metric stainless steel welding end

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





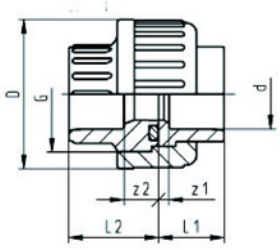
Adaptor union ABS metric copper for soldering

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





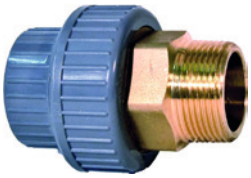
Adaptor union ABS metric brass Rp

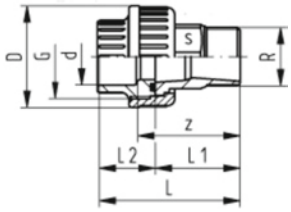
Model:

- 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:

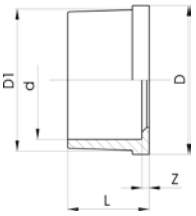
- Union Nut: ABS
- Union Bush: Solvent cement socket ABS metric
- Union End: Brass with taper male thread R
- Gasket: O-ring EPDM code no. 748 410 006-011

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





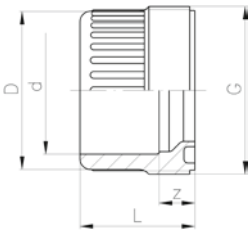
Union end ABS metric

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





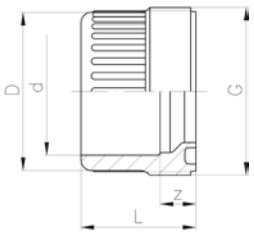
Union bush ABS metric

Model:

- Solvent cement socket metric
- For union 729 510 106-114
- Jointing face: with O-ring groove

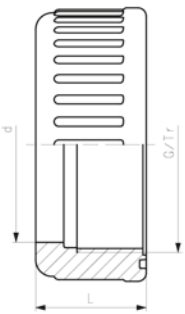
d (mm)	PN (bar)	Code	Weight (lb)	z (mm)	D (mm)	L (mm)	G/Tr (inch)	closest inch (inch)
20	10	**729 840 106**	0.024	10	28	26	1	½
25	10	**729 840 107**	0.035	10	33	29	1 1/4	¾
32	10	**729 840 108**	0.060	10	41	33	1 1/2	1
40	10	**729 840 109**	0.101	12	50	39	2	1 ¼
50	10	**729 840 110**	0.128	14	62	46	2 1/4	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

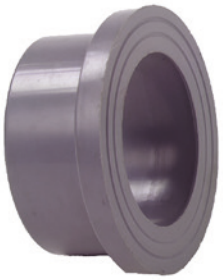
Model:

- 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



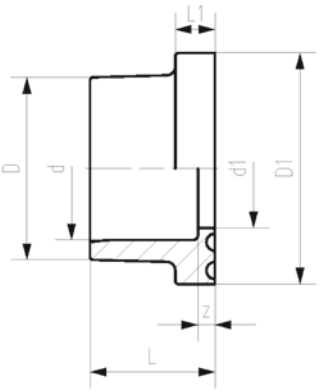
Flange adaptor ABS metric

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:

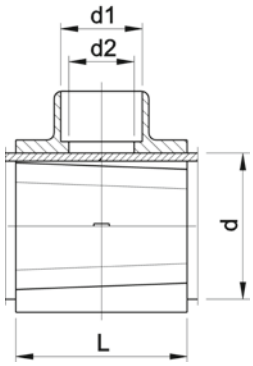
* bevel on pipe may be needed if used with butterfly valve type 037/038/039



	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.

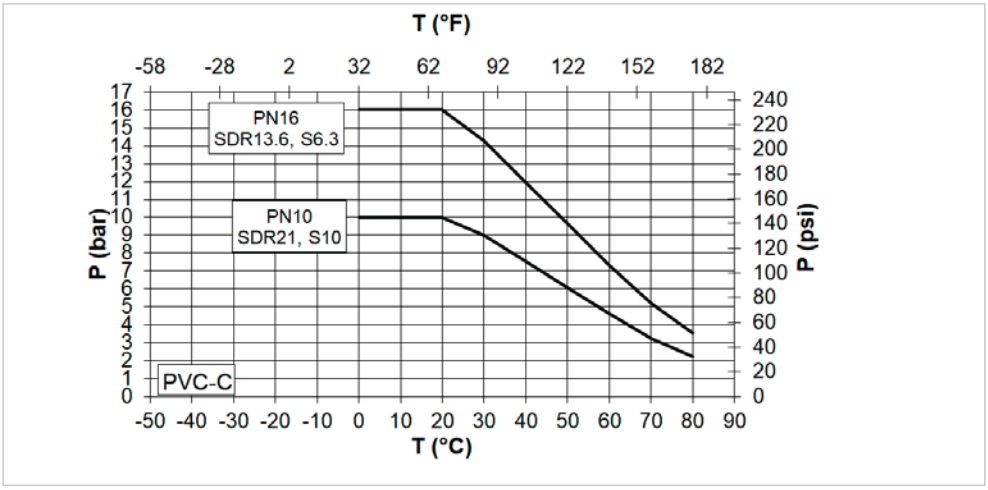
Pressure-temperature diagram for PVC-C

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.

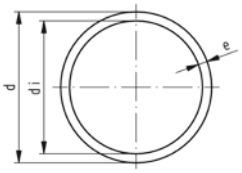


P Permissible pressure (bar, psi)
T Temperature (°C, °F)

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	Adaptor fittings	374
	Unions	377
	Flange adaptors	388
	PVC-C accessories	388

Pipes





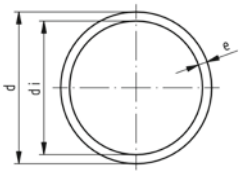
Pipe PVC-C grey SDR9/PN25/S4

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





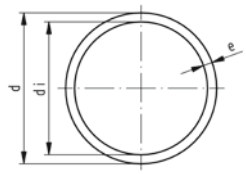
Pipe PVC-C grey SDR13,6/PN16/S6,3

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

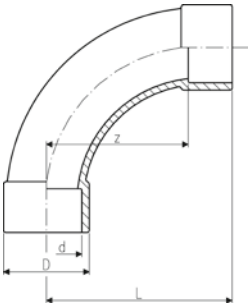
Model:

- 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



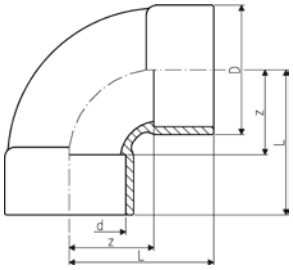


Bend 90° PVC-C metric

- 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



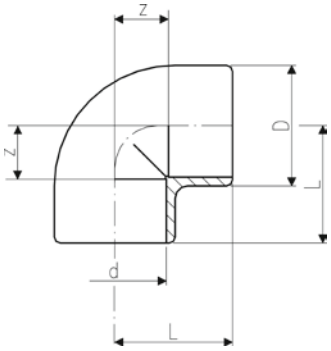


Bend 90° short pattern PVC-C metric

- 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

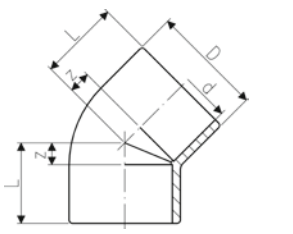




Elbow 90° PVC-C metric

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

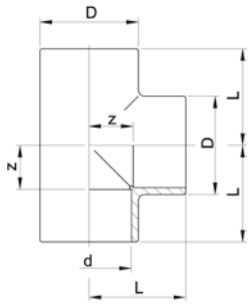




Elbow 45° PVC-C metric

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

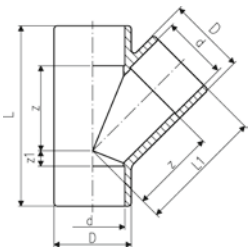




Tee 90° PVC-C metric

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

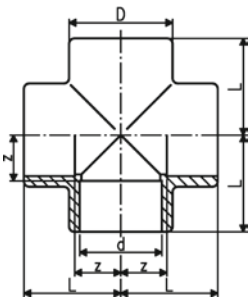




Tee 45° PVC-C metric

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

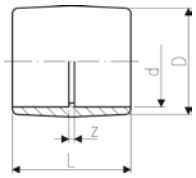




Cross PVC-C metric

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

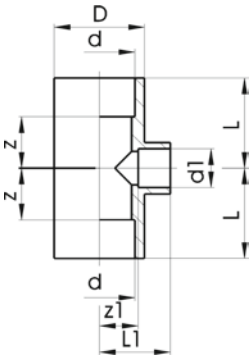




Socket PVC-C metric

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



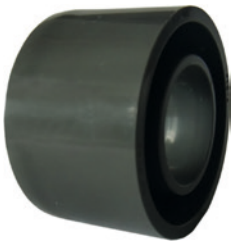


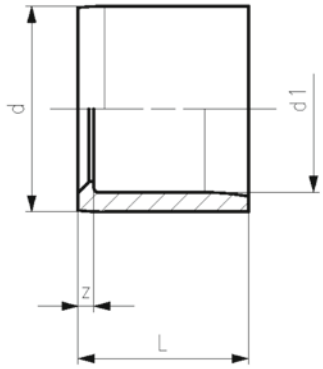
Tee 90° reducing PVC-C metric

*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







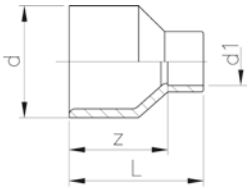
Reducing bush short pattern PVC-C metric

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





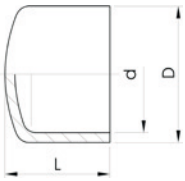
Reducing bush long pattern PVC-C metric

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

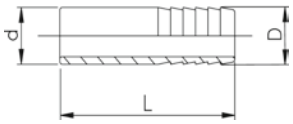




Cap PVC-C metric

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

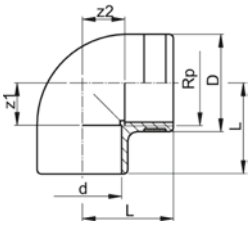
Model:

- 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





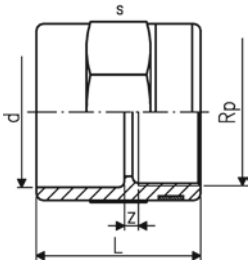
Elbow 90° PVC-C metric Rp

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





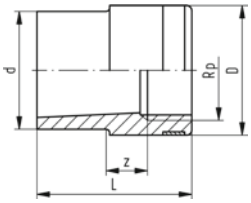
Socket PVC-C metric Rp

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





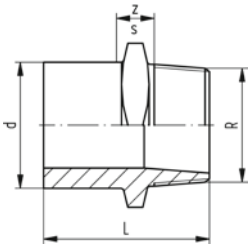
Reducing bush PVC-C metric Rp

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





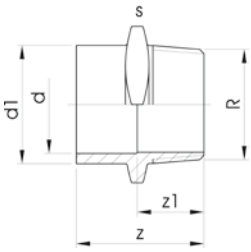
Adaptor nipple PVC-C metric R

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





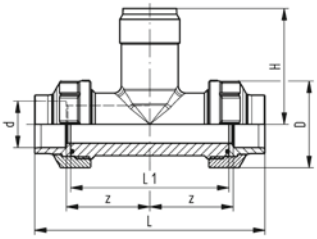
Adaptor socket nipple PVC-C metric R

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:

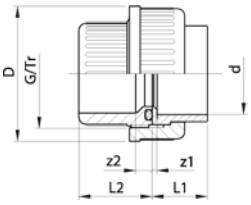
- Threaded outlet 1 ¼" NPSM
- Body and union nut PVDF
- Union end with solvent cement socket PVC-C

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

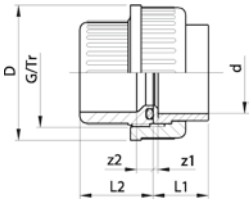
Model:

- 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

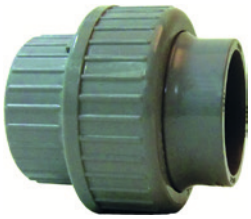
d (mm)	Size (inch)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16		16	**723 510 105**	0.028	**723 510 130**	0.027
20		16	**723 510 106**	0.046	**723 510 131**	0.044
25		16	**723 510 107**	0.063	**723 510 132**	0.072
32		16	**723 510 108**	0.090	**723 510 133**	0.098
40		16	**723 510 109**	0.158	**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

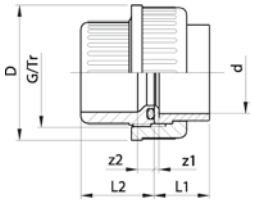
z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)	G/Tr (inch)
3	8	35	19	24	3/4
3	9	43	21	26	1
3	9	53	24	29	1 1/4
3	9	60	27	33	1 1/2
3	10	74	32	39	2

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

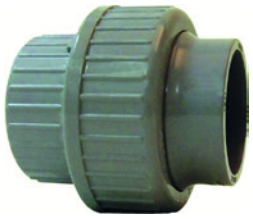
Model:

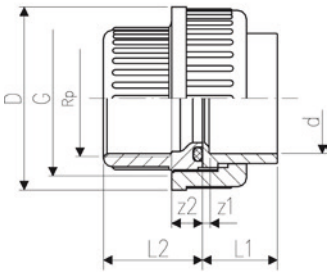
- Silicone free/paint-compatible
- Union End: PVC-C solvent socket metric
- Union bush: PVC-C solvent cement socket metric
- Gasket: with O-ring

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

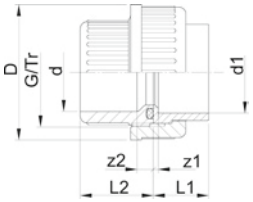
Model:

- 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

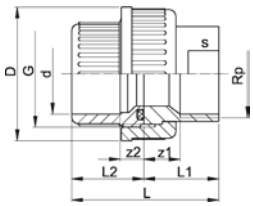
Model:

- 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

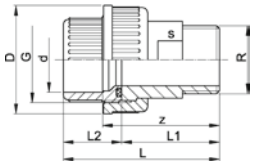
Model:

- 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





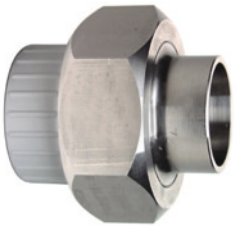
Adaptor union PVC-C metric stainless steel R

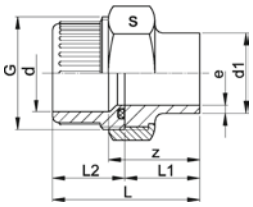
Model:

- 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

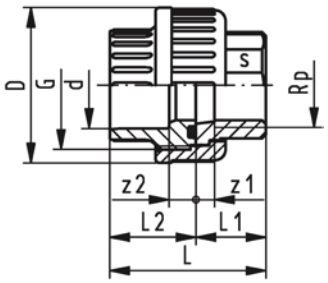
Model:

- 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

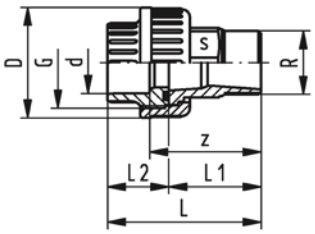
d (mm)	Thread Type	Size (inch)	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	G (inch)	z1 (mm)	z2 (mm)	s (mm)
20	Rp	½	**723 530 306**	0.075	43	48	22	26	1	9	10	25
25	Rp	¾	**723 530 307**	0.112	51	51	22	29	1 1/4	7	10	31
32	Rp	1	**723 530 308**	0.157	58	58	26	33	1 1/2	9	10	38
40	Rp	1 ¼	**723 530 309**	0.300	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



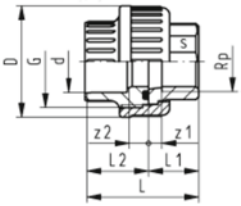
d (mm)	Thread Type	Size (inch)	Code	Weight (kg)	s (mm)	L2 (mm)	G (inch)	z (mm)	L1 (mm)	D (mm)	L (mm)
20	R	½	**723 530 806**	0.114	25	26	1	50	40	43	66
25	R	¾	**723 530 807**	0.165	31	29	1 1/4	53	43	51	72
32	R	1	**723 530 808**	0.205	38	33	1 1/2	58	48	58	80
40	R	1 ¼	**723 530 809**	0.403	48	39	2	69	57	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

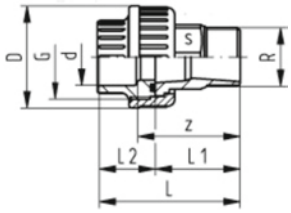
d (mm)	L1 (mm)	D (mm)	L (mm)	L2 (mm)	s (mm)	z1 (mm)	z2 (mm)	G (inch)
20	22	43	48	26	25	7	10	1
25	25	51	54	29	30	9	10	1 1/4
32	27	58	60	33	36	8	11	1 1/2
40	31	72	70	39	46	10	13	2
50	35	83	81	46	55	13	15	2 1/4
63	40	100	98	58	65	14	21	2 3/4



Adaptor union PVC-C metric brass R

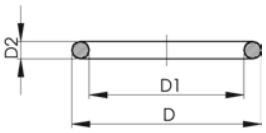
Model:

- 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:

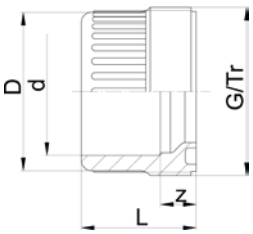
- For unions and adaptor unions
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FKM minimum temperature -15°C

* 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

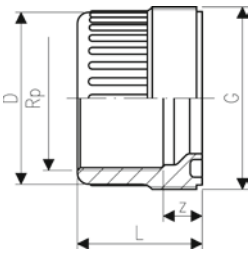
d (mm)	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	D (mm)	L (mm)	G/Tr (inch)
16		16	**723 840 105**	0.009	11	24	25	3/4
20		16	**723 840 106**	0.014	12	28	26	1
25		16	**723 840 107**	0.024	11	33	29	1 1/4
32		16	**723 840 108**	0.038	10	41	33	1 1/2
40		16	**723 840 109**	0.066	12	50	39	2
50		16	**723 840 110**	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



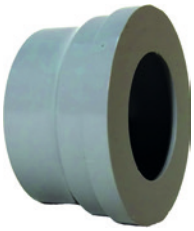
Union bush PVC-C Rp

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

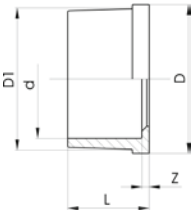


Union end PVC-C metric

Model:

- For union 723 510 105-114
- With solvent cement socket metric

*just for variable area flow meter



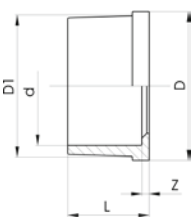
	d (mm)	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	D (mm)	D1 (mm)	L (mm)
	16		16	**723 800 105**	0.005	3	24	22	19
	20		16	**723 800 106**	0.010	3	30	28	21
	25		16	**723 800 107**	0.018	3	39	36	24
	32		16	**723 800 108**	0.023	3	44	41	27
	40		16	**723 800 109**	0.062	3	57	53	31
	50		16	**723 800 110**	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:

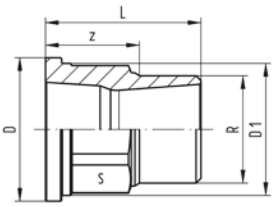
- For union 723 510 105-114
- With solvent cement socket ASTM



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





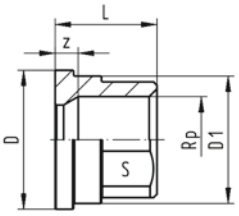
Model:

- 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



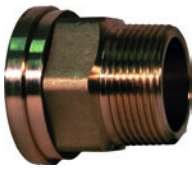


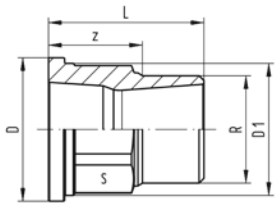
Model:

- 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



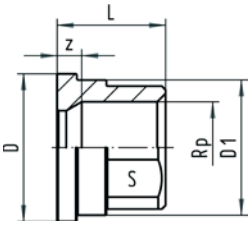


Model:

- 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





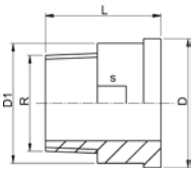
Union end brass Rp

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





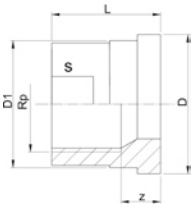
Union end stainless steel R

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

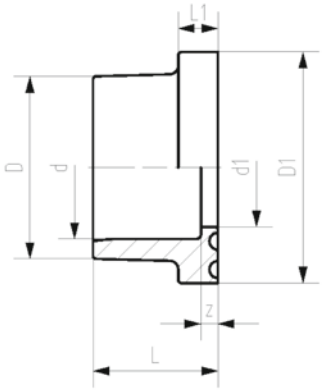
Model:

- 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.

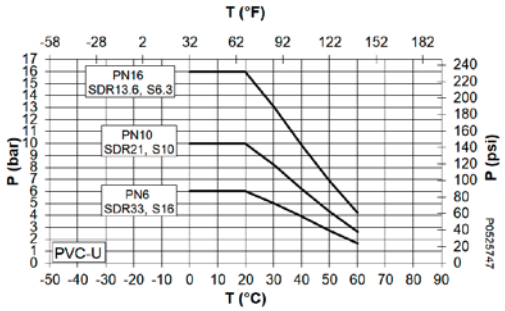
Pressure-temperature diagram for PVC-U

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

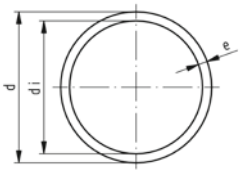
Our experience and tests show that pipe equal to or greater than d315 can be slightly oval, which could produce an enlarged cementing gap.

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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	Adaptor fittings	404
	Unions/tank adapters	412
	Solvent Cements and Tools	424

Pipes





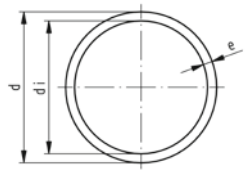
Pipe PVC-U grey
SDR21/PN10/S10

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

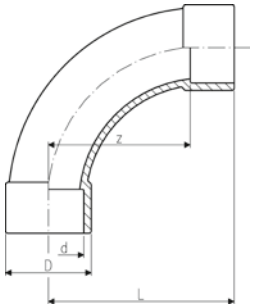
Model:

- 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



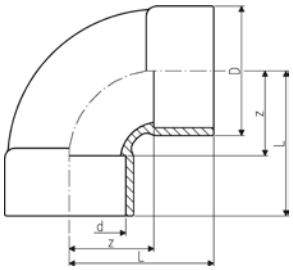


Bend 90° PVC metric

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

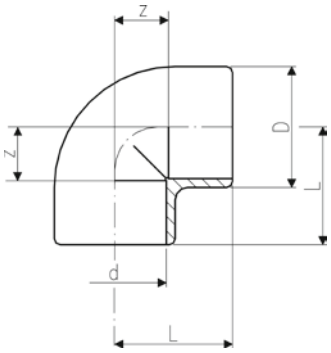




d (mm)	PN (bar)	Code	Weight (kg)	z (mm)	D (mm)	L (mm)
225	10	**721 010 120**	7.554	168	256	287
280	10	**721 010 122**	16.987	210	318	357
315	6	**721 010 123**	21.567	237	356	402
400	6	**721 010 125**	30.000	300	442	521

Elbow 90° PVC-U metric

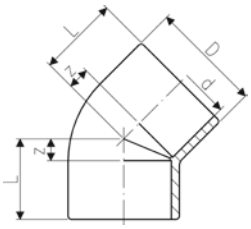




d (mm)	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	D (mm)	L (mm)
6		16	**721 100 101**	0.004	4	11	16
8		16	**721 100 102**	0.004	5	13	17
10		16	**721 100 103**	0.004	6	14	18
12		16	**721 100 104**	0.006	7	17	19
16		16	**721 100 105**	0.007	9	21	23
20		16	**721 100 106**	0.012	11	25	27
25		16	**721 100 107**	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

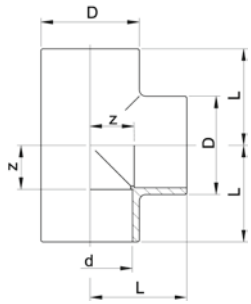




d (mm)	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	D (mm)	L (mm)
16		16	**721 150 105**	0.008	5	21	19
20		16	**721 150 106**	0.011	5	25	21
25		16	**721 150 107**	0.017	6	31	25
32		16	**721 150 108**	0.021	8	38	30
40		16	**721 150 109**	0.048	10	47	36
50		16	**721 150 110**	0.086	12	59	43
63		16	**721 150 111**	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

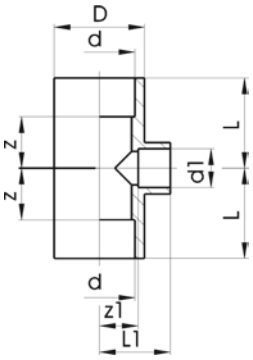
Tee 90° equal PVC-U metric





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

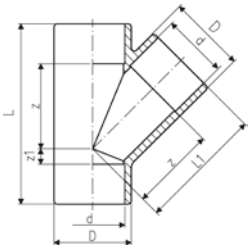




Tee 90° reducing PVC-U metric

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

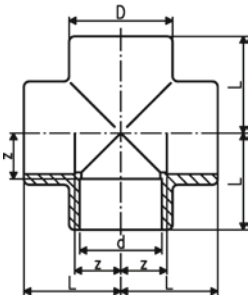




Tee 45° PVC-U metric

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

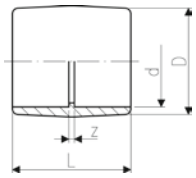




Cross PVC-U metric

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

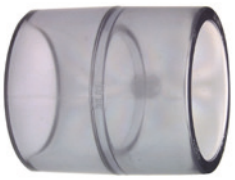


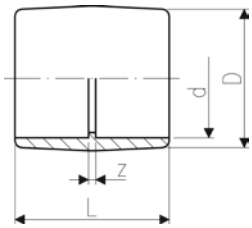


Socket equal PVC-U metric

[1] Socket d355 and d400 fabricated from pipe. The socket length can vary up to +/- 20mm

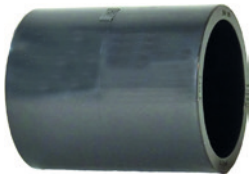
	d (mm)	d (inch)	PN (bar)	Code	Weight (kg)	z (mm)	D (mm)	L (mm)
	6		16	**721 910 101**	0.004	3	12	27
	8		16	**721 910 102**	0.005	3	14	27
	10		16	**721 910 103**	0.004	3	16	27
	12		16	**721 910 104**	0.004	3	19	27
	16		16	**721 910 105**	0.006	3	22	31
	20		16	**721 910 106**	0.011	3	26	35
	25		16	**721 910 107**	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

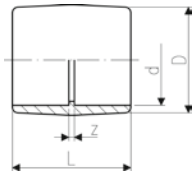




Socket equal PVC-U transparent metric

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





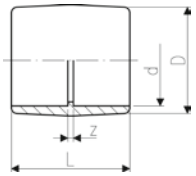
Adaptor socket PVC-U metric Inch/BS

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

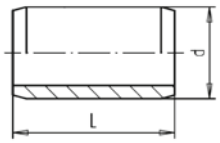
table continued on the next page



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



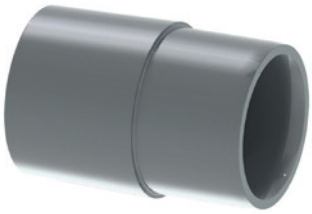


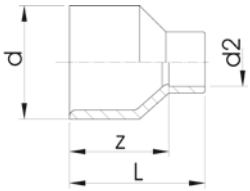
Model:

- 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



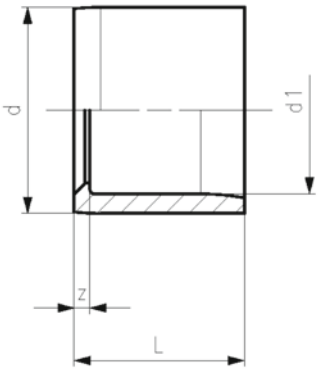


Model:

- 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





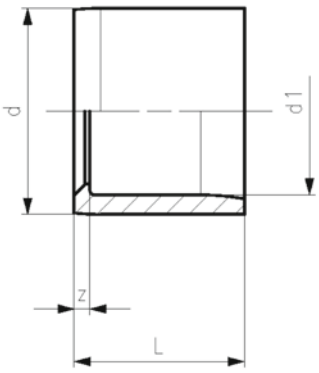
Reducing bush short PVC-U metric

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

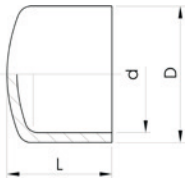
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d (mm)	d1 (mm)	PN (bar)	Size (inch)	Code	Weight (kg)	z (mm)	L (mm)
400	250	6		**721 900 319**	11.528	60	206
400	280	6		**721 900 320**	11.366	60	206
400	315	6		**721 900 321**	13.006	42	206
400	355	6		**721 900 322**	7.524	22	206

Cap PVC-U metric / BS



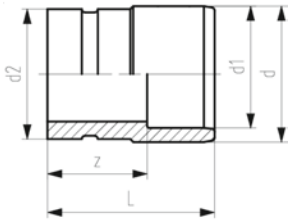


	d (mm)	d (inch)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)
	12		16	**721 960 104**	0.004	19	15
	16		16	**721 960 105**	0.005	23	21
	20		16	**721 960 106**	0.008	27	24
	25		16	**721 960 107**	0.013	33	28
	32		16	**721 960 108**	0.020	40	32
	40		16	**721 960 109**	0.029	47	37
	50		16	**721 960 110**	0.051	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





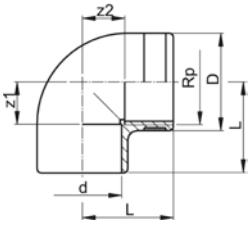
Model:

- 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



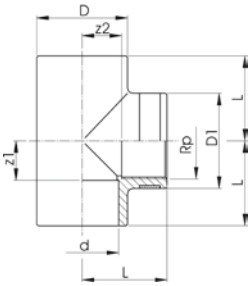


Model:

- 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





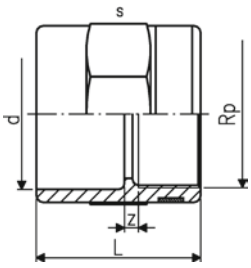
Tee 90° PVC-U metric Rp

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





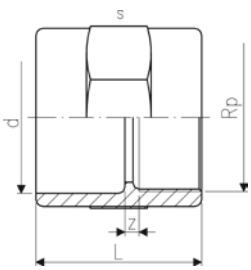
Adaptor socket PVC-U metric Rp Reinforced

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





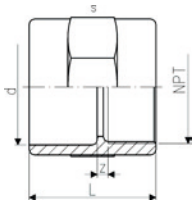
Adaptor socket PVC-U metric Rp

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





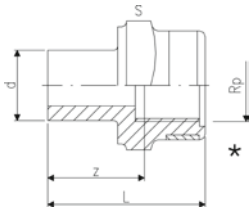
Adaptor socket PVC-U metric NPT

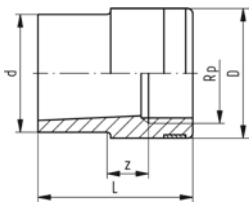
Model:

- 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







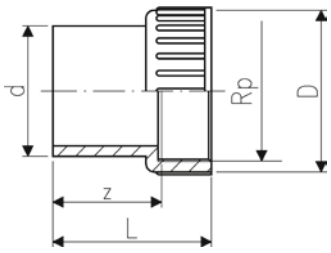
Reducing bush PVC-U metric Rp

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	





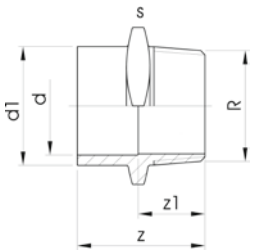
Adaptor PVC-U metric Rp

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





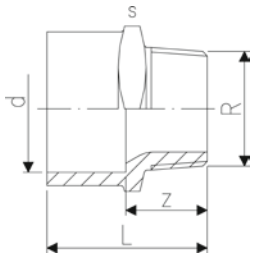
Adaptor socket nipple PVC-U metric R

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





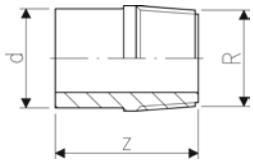
Adaptor bush equal PVC-U metric R

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

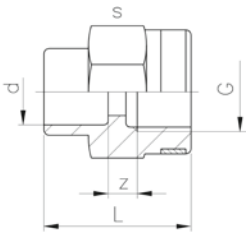
Model:

- 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





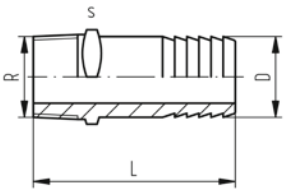
Model:

- 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





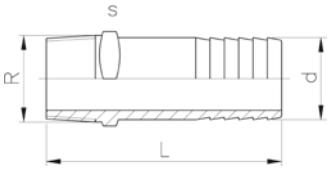
Model:

- 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





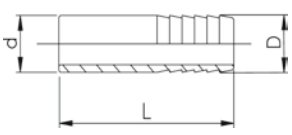
Model:

- 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



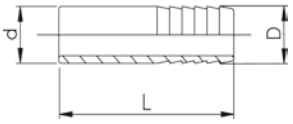


Model:

- With solvent cement spigot metric and parallel hose connection

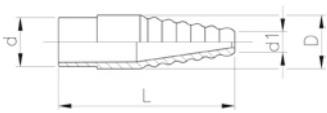
d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)
10	16	**721 960 403**	0.002	8	47
12	16	**721 960 404**	0.003	12	51
16	16	**721 960 405**	0.008	16	57
20	16	**721 960 406**	0.016	20	73
25	16	**721 960 407**	0.021	25	79
32	16	**721 960 408**	0.035	30	89

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





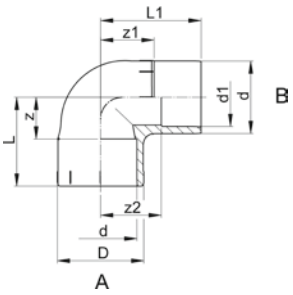
Laboratory hose connector PVC-U metric

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





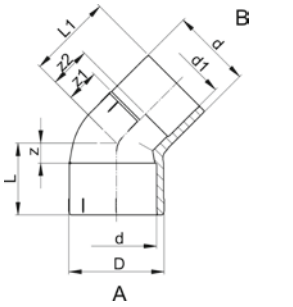
PRO-FIT elbow 90° PVC-U metric

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





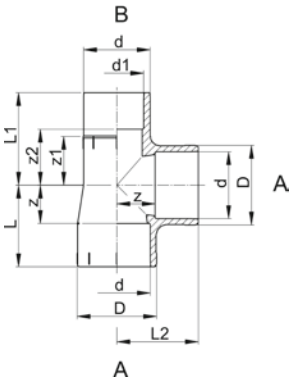
PRO-FIT elbow 45° PVC-U metric

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





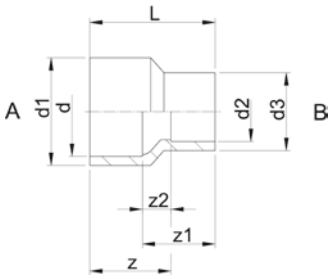
PRO-FIT tee 90° equal PVC-U metric

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

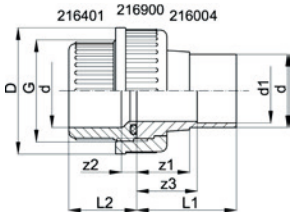
Model:

- 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

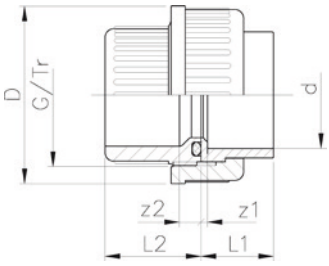
Unions for solvent cement jointing



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

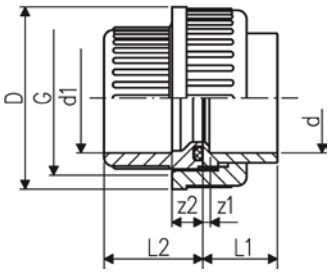
d (mm)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)	G/Tr (inch)
10	3	10	31	15	22	5/8
12	3	10	31	15	22	5/8
16	3	10	35	17	24	3/4
20	3	10	43	19	26	1
25	3	10	51	22	29	1 1/4
32	3	10	58	25	33	1 1/2
40	3	12	72	29	39	2
50	3	14	83	34	46	2 1/4
63	3	18	100	41	58	2 3/4
75	3	18	135	47	62	Tr108x5
90	5	18	158	56	69	Tr128x5
110	5	11	188	66	72	Tr154x6



Adaptor union PVC-U metric BS

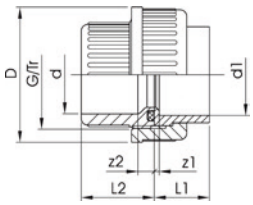
Model:

- 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





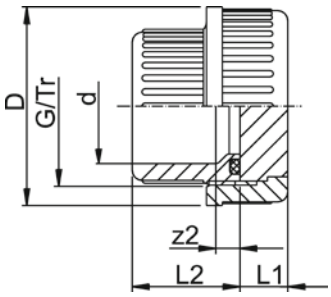
Union PVC-U metric ASTM

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

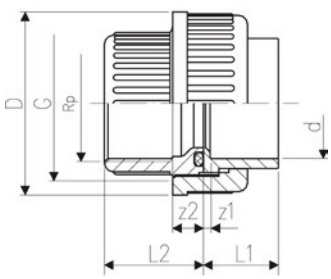
Model:

- 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





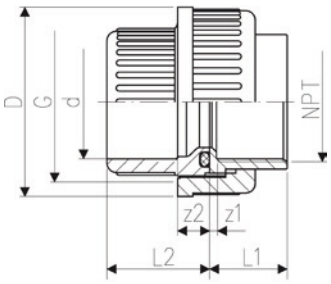
Adaptor union PVC-U metric Rp

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





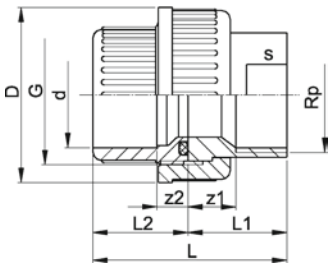
Adaptor union PVC-U metric NPT

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

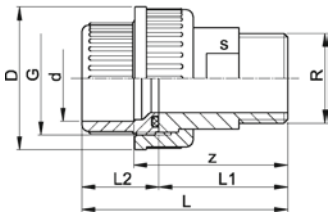
Model:

- 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

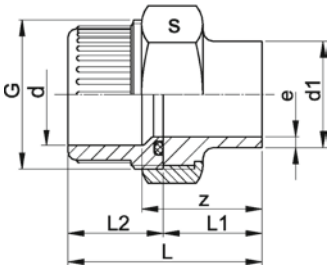
Model:

- 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

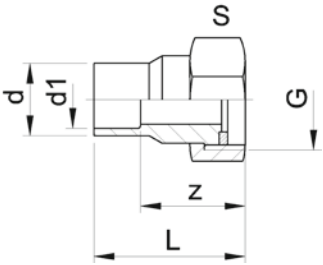
Model:

- 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





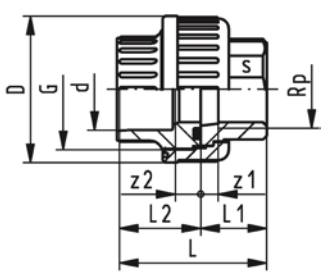
Tap connectors PVC-U/brass metric G

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





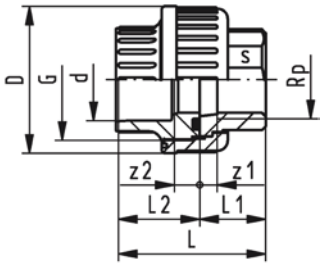
Adaptor union PVC-U metric/malleable iron galvanised Rp

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



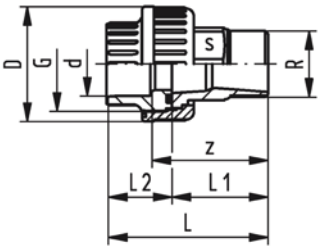
d (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	z1 (mm)	z2 (mm)	G (inch)	s (mm)
20	43	48	22	26	9	10	1	25
25	51	51	22	29	7	10	1 1/4	31
32	58	58	26	33	9	10	1 1/2	38
40	72	69	31	39	12	12	2	48
50	83	78	33	46	14	14	2 1/4	54
63	100	91	35	58	11	18	2 3/4	67
75	127	101	39	62	12	18	Tr 108x5	85
90	150	114	45	69	15	19	Tr 128x5	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

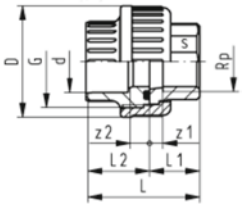
d (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	G (inch)	s (mm)
20	43	66	40	26	50	1	25
25	51	72	43	29	53	1 1/4	31
32	58	80	48	33	58	1 1/2	38
40	72	95	57	39	69	2	48
50	83	104	59	46	73	2 1/4	54
63	100	118	62	58	80	2 3/4	67
75	127	137	75	62	93	Tr 108x5	85
90	150	149	80	69	99	Tr 128x5	96



Adaptor union PVC-U/brass metric Rp

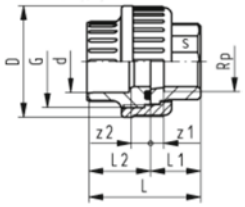
Model:

- 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



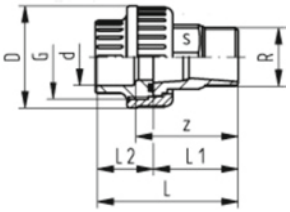
d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)
20	Rp	½	16	**721 550 506**	0.088
25	Rp	¾	16	**721 550 507**	0.145
32	Rp	1	16	**721 550 508**	0.175
40	Rp	1 ¼	16	**721 550 509**	0.322
50	Rp	1 ½	16	**721 550 510**	0.467
63	Rp	2	16	**721 550 511**	0.776
75	Rp	2 ½	10	**721 550 512**	1.360
90	Rp	3	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

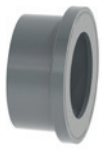
Model:

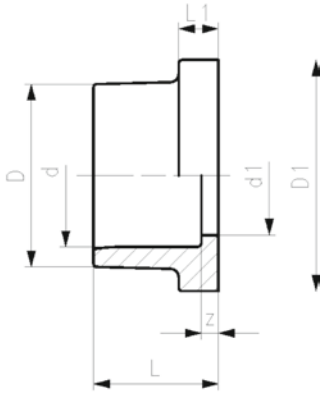
- Union Nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: Brass with taper male thread R
- Gasket: O-ring EPDM code no. 748 410 006-014; d90 748 410 248

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:

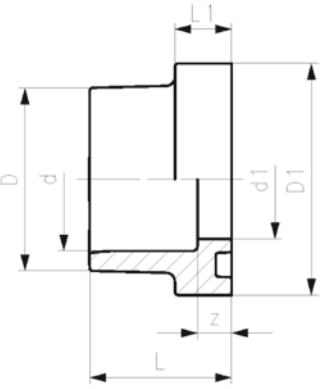
- Solvent cement socket metric
- d16 - d50: Sealing surface flat
- d63 - d400: combined jointing face flat and serrated
- Combination with gasket: profile flange gasket EPDM code no. 748 440 705-725, FKM code no. 749 440 705-725 or flat gasket EPDM code no. 748 440 705-725, only use O-ring EPDM code 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





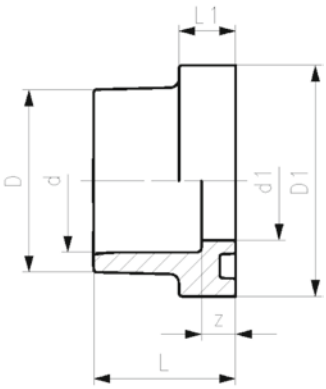
Flange adaptor PVC-U
Jointing face with O-ring groove metric

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

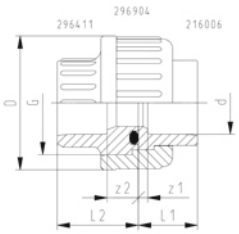
table continued on the next page



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

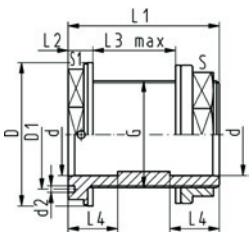
Model:

- 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





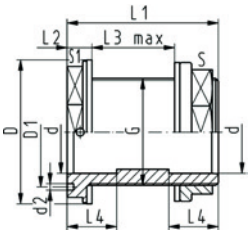
Tank adaptor type 050 PVC-U Compact

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

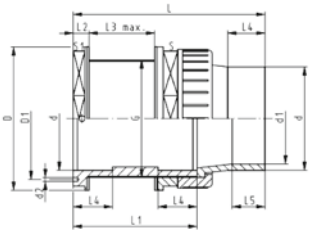
d (mm)	PN (bar)	EPDM Code	Weight (kg)
16	16	**161 050 445**	0.048
20	16	**161 050 446**	0.066
25	16	**161 050 447**	0.170
32	16	**161 050 448**	0.144
40	16	**161 050 449**	0.238
50	16	**161 050 450**	0.260
63	16	**161 050 451**	0.398

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

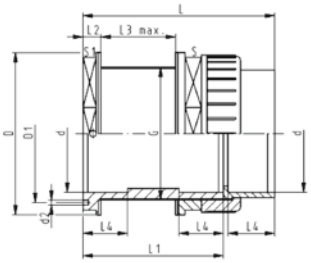
Model:

- 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





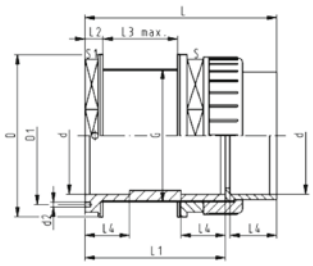
Tank adaptor type 050 PVC-U
cementing socket metric

Model:

- Gaskets: flat gaskets EPDM
- Washer: PP
- Run-out holes: two holes in octagonal head
- FKM flat gaskets available for tank adaptor type 050

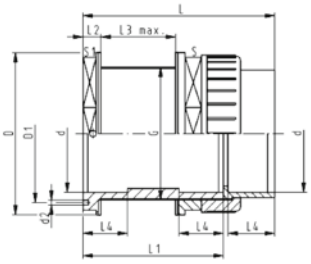
d (mm)	PN (bar)	Code	Weight (kg)
16	16	**161 050 245**	0.064
20	16	**161 050 246**	0.070
25	16	**161 050 247**	0.100
32	16	**161 050 248**	0.196
40	16	**161 050 249**	0.328
50	16	**161 050 250**	0.395
63	16	**161 050 251**	0.530

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

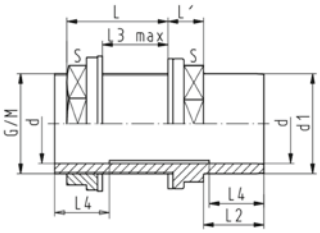
Model:

- 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

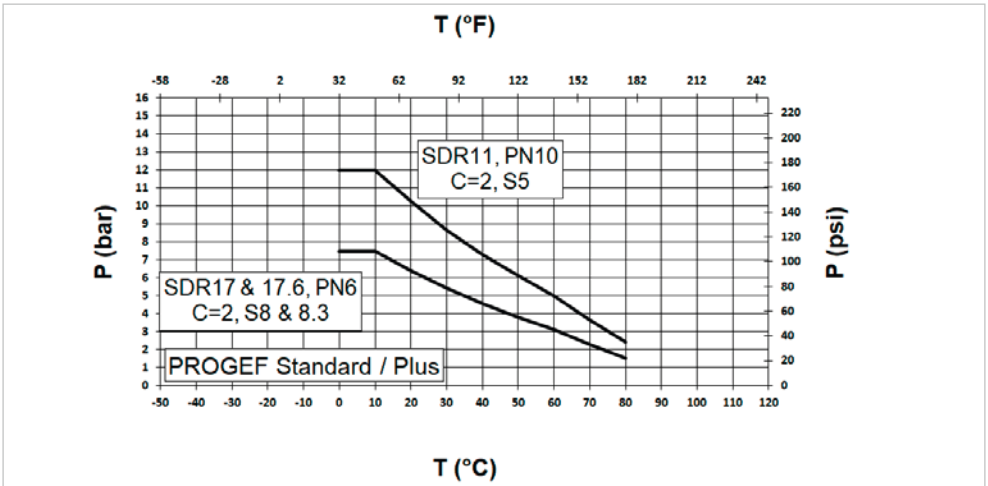
PROGEF Standard and PROGEF Plus piping system (PP-H)

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

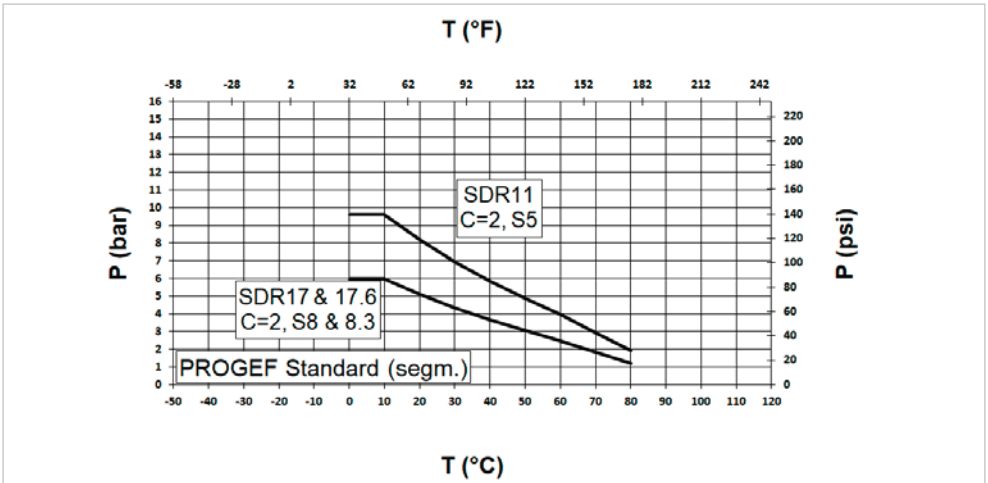


P Permissible pressure (bar, psi)
T Temperature (°C, °F)

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)

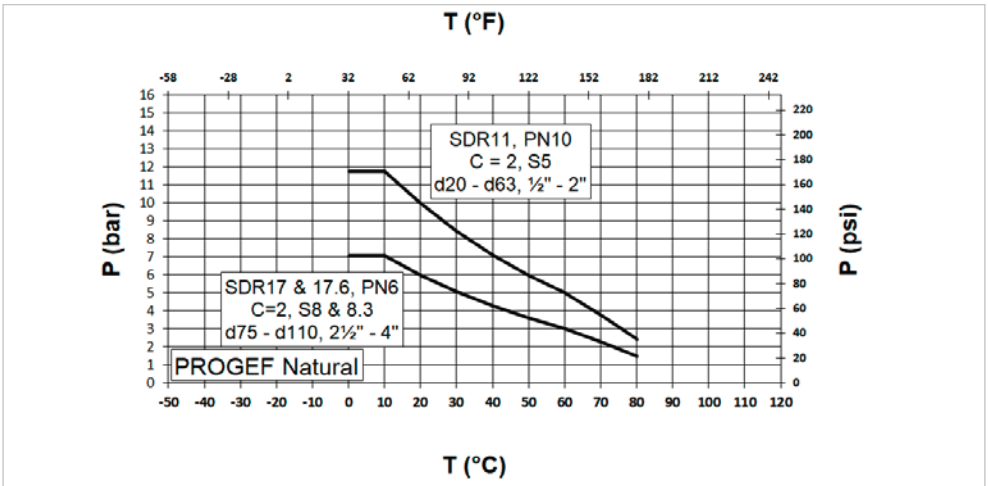
The following pressure-temperature diagram for PROGEF Natural pipe and fittings is valid for a service life of 25 years.

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.



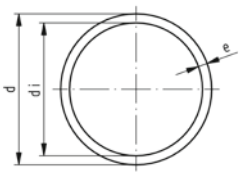
P Permissible pressure (bar, psi)

T Temperature (°C, °F)

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	Socket fusion flange adaptor	474

Pipes





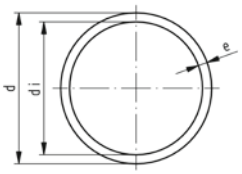
PROGEF Standard pipe SDR7,4/PN16/S3,2

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





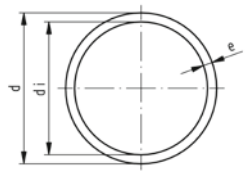
PROGEF Standard pipe SDR11/PN10/S5

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:

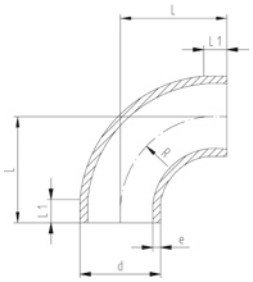
- Material: PP-H - homopolymer
- Dimension: acc. to DIN 8077/78 and DIN EN 15494
- Colour: light grey RAL 7032
- Pipe length: 5000mm, with plain ends

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







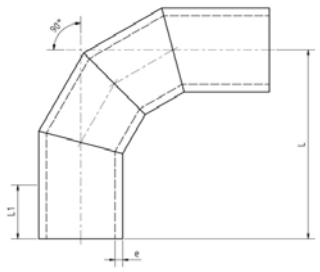
PROGEF Standard Bend 90°
SDR11/PN10

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

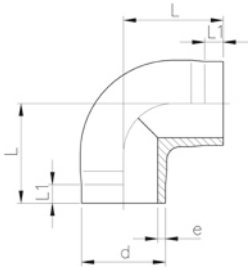


Bend 90°, PP-H S5/SDR11

- 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





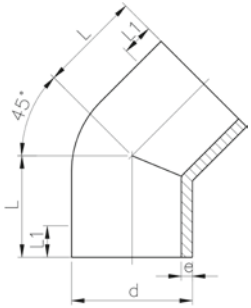
PROGEF Standard Elbow 90°
SDR11/PN10

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

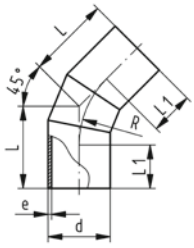
Model:

- 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



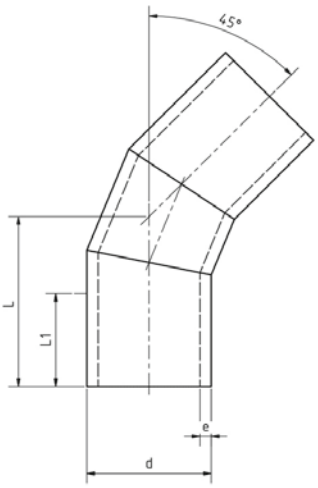


PROGEF Standard Bend 45°
SDR11/PN10

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

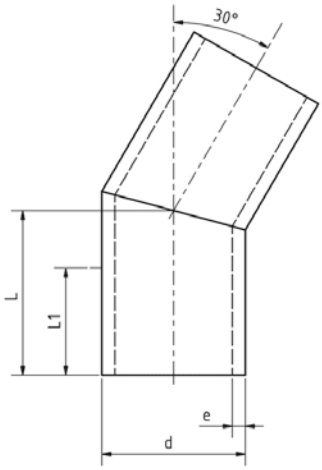
d (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	R (mm)	e (mm)
355	11	8	**727 158 524**	32.300	520	300	532.5	32.2
400	11	8	**727 158 525**	43.200	548	300	600.0	36.3
450	11	8	**727 158 526**	57.700	580	300	675.0	40.9
500	11	8	**727 158 527**	87.200	665	350	750.0	45.4



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

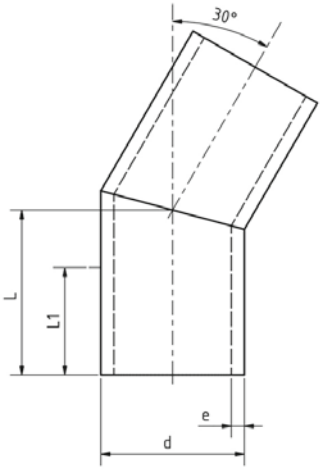


PROGEF Elbow 30°, PP-H S5/SDR11

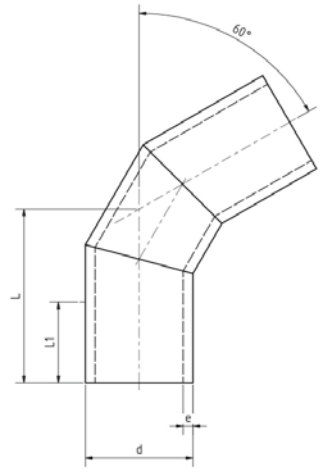
- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

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



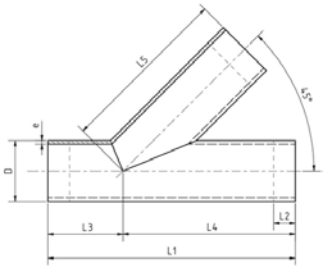
d (mm)	Code	L (mm)	L1 (mm)	e (mm)
400	**700 649 480**	461	300	36.4
450		481	300	41.0
500		551	350	45.5
560		575	350	51.0
630		603	350	57.3



PROGEF Elbow 60°, PP-H S5/SDR11

- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

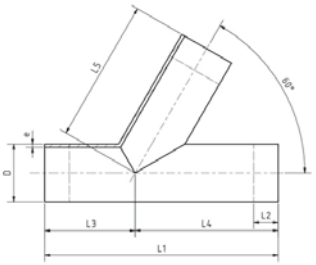
d (mm)	Code	L (mm)	L1 (mm)	e (mm)
110	**700 649 420**	245	150	10.0
125	**700 649 421**	258	150	11.4
140	**700 649 422**	271	150	12.8
160	**700 649 423**	288	150	14.6
180	**700 649 424**	305	150	16.4
200	**700 649 425**	323	150	18.2
225	**700 649 426**	345	150	20.5
250	**700 649 427**	466	250	22.8
280	**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

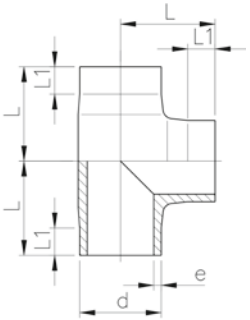


PROGEF Branch 60° PP-H S5/SDR11

- 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





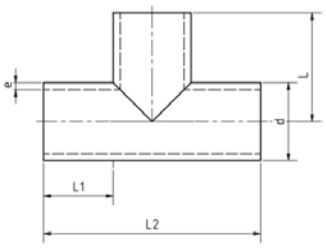
PROGEF Standard Tee 90° equal SDR11/PN10

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

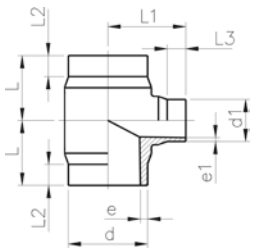


PROGEF Tee 90°, equal, PP-H S5/SDR11

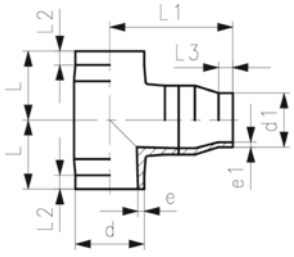
- For butt- and electro fusion
- Reduction factor = 0,6
- big dimensions on request

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

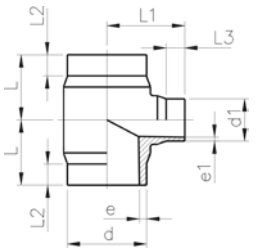
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

[1]with IR welded reducer

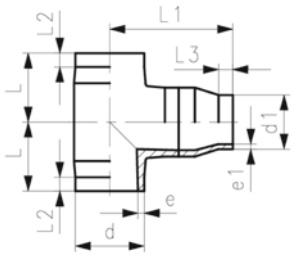
	d (mm)	d1 (mm)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	e (mm)	e1 (mm)
	63	32	11	10	IR	**727 208 351**	0.161	65	70	25	25	5.8	2.9
	63	40	11	10	IR	**727 208 350**	0.165	65	70	25	25	5.8	3.7
	63	50	11	10	IR	**727 208 352**	0.170	65	70	25	25	5.8	4.6
	75	32	11	10	IR	**727 208 353**	0.238	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

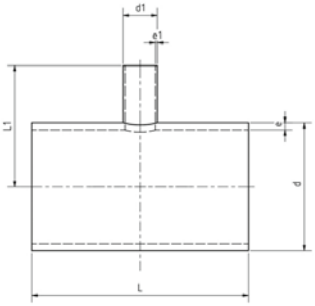
table continued on the next page



	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

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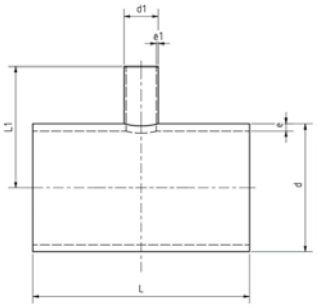


PROGEF Tee 90°, reduced, PP-H S5/SDR11

- For butt- and electro fusion
- Reduction factor = 0,6
- big dimensions on request

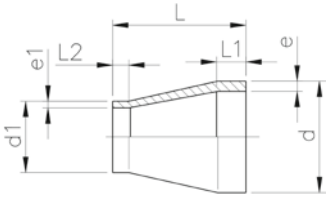
d (mm)	d1 (mm)	Code	L (mm)	L1 (mm)	e (mm)	e1 (mm)
225	63	**700 649 493**	363	238	20.5	5,8
225	75	**700 649 494**	375	238	20.5	6,9
225	90	**700 649 495**	390	238	20.5	8,2
225	110	**700 649 496**	410	238	20.5	10,0
225	125	**700 649 497**	425	238	20.5	11,4
225	140	**700 649 498**	440	238	20.5	12,8
225	160	**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

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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

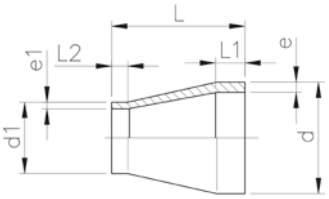
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

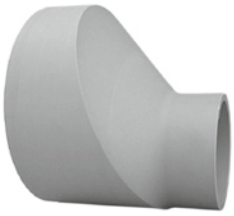
Material:PP-R

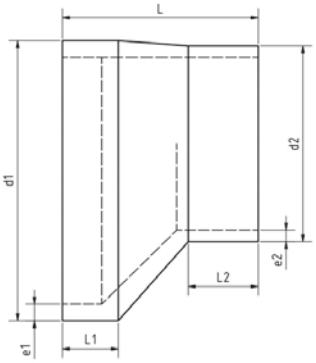
d (mm)	d1 (mm)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	e1 (mm)
25	20	11	10	IR	**727 908 537**	0.007	50	20	20	2.3	1.9
32	20	11	10	IR	**727 908 542**	0.010	50	20	20	2.9	1.9
32	25	11	10	IR	**727 908 541**	0.010	50	20	20	2.9	2.3
40	20	11	10	IR	**727 908 548**	0.016	58	20	23	3.7	1.9
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





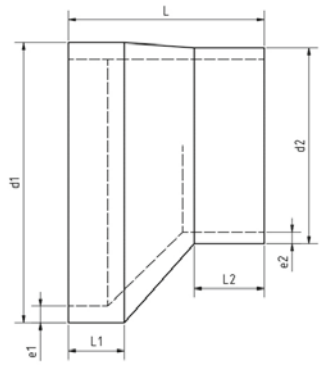
PROGEF Reducing Bushes excentric, PP-H SDR11

Model:

- Machined
- Conventional butt-welding according to DVS 2207

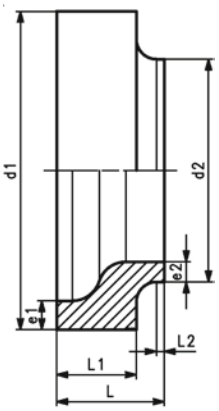
d1 (mm)	d2 (mm)	PN (bar)	Code	L2 (mm)	L (mm)	e2 (mm)	L1 (mm)	e1 (mm)
63	50	10	**700 647 700**	35	120	4,6	35	5,8
75	50	10	**700 647 701**	35	120	4,6	40	6,8
75	63	10	**700 647 702**	35	120	5,8	40	6,8
90	63	10	**700 647 703**	50	140	5,8	50	8,2
90	75	10	**700 647 704**	50	140	6,8	50	8,2
110	75	10	**700 647 705**	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



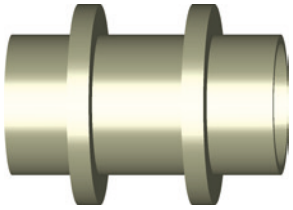


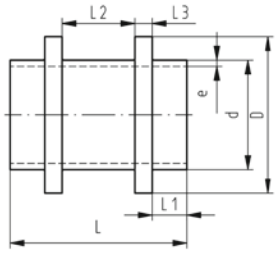
PROGEF Standard Flush style reducer SDR11/PN10

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





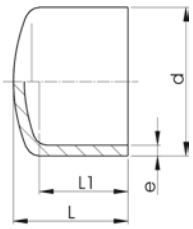
PROGEF Standard Fixpoint fitting SDR11/PN10

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





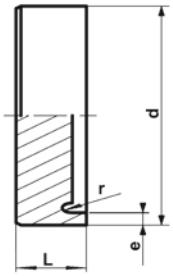
PROGEF Standard End cap SDR11/PN10

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



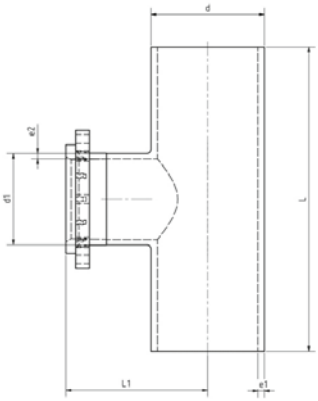


PROGEF Standard End cap short
SDR11/PN10

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

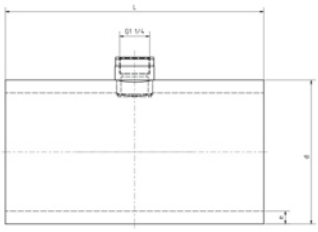


Revision Tees 90°, PP-H SDR11

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

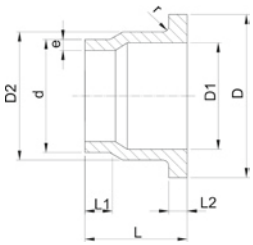


Saddle-Tee, PP-H S5/SDR11 Outlet with female thread Rp, welded

- 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



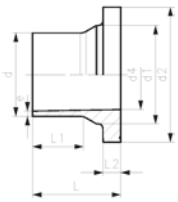
Type B



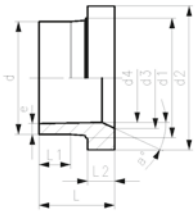
Type C



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



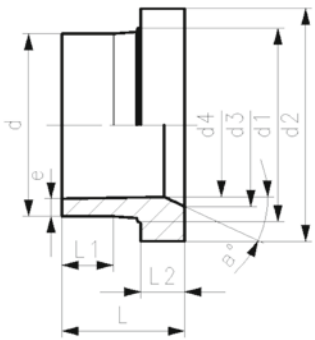
PROGEF Standard Flange adaptor for butterfly valves SDR11/PN10

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

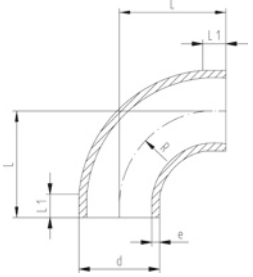


d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	a°
373	430	350	284	187	70	65	33.9	25
427	482	400	320	196	70	70	38.2	25
467	533	450	360	272	105	107	43.0	23
530	585	498	400	261	105	90	47.8	25

Butt fusion fittings SRD 17.6







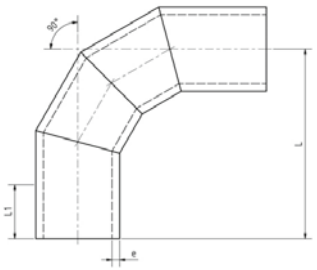
PROGEF Standard Bend 90° SDR17.6/PN6

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

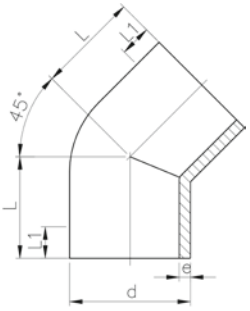


PROGEF Elbow 90°, PP-H S8/SDR17.6

- 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

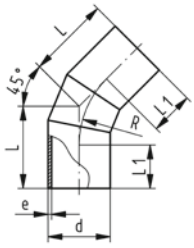
Model:

- 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



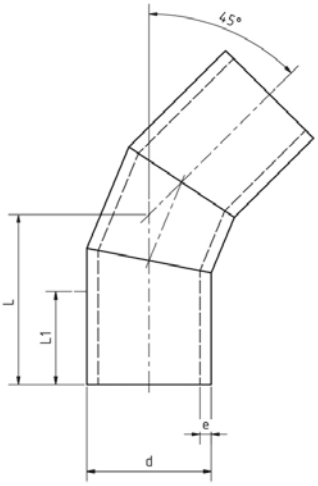


PROGEF Standard Bend 45°
SDR17.6/PN6

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

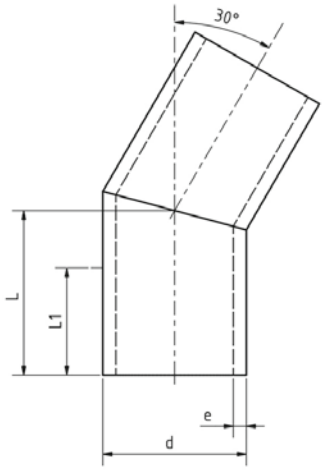
d (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	R (mm)	e (mm)
355	17.6	4	**727 158 549**	21.000	520	300	533	20.1
400	17.6	4	**727 158 550**	28.100	548	300	600	22.7
450	17.6	4	**727 158 551**	37.400	580	300	675	25.5
500	17.6	4	**727 158 552**	52.600	665	350	750	28.4



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

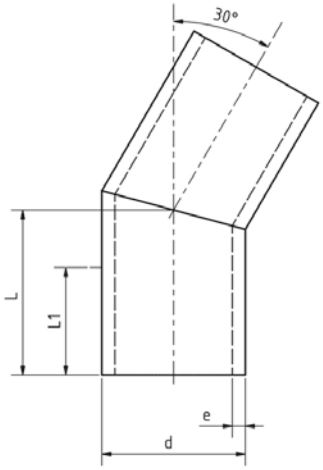


PROGEF Elbow 30°, PP-H S8/SDR17.6

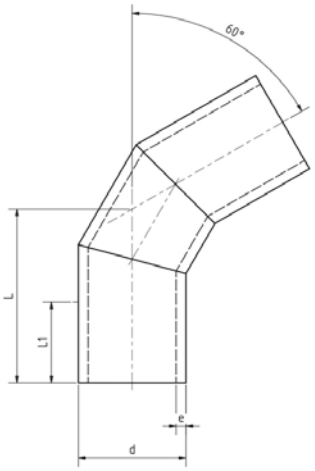
- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

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



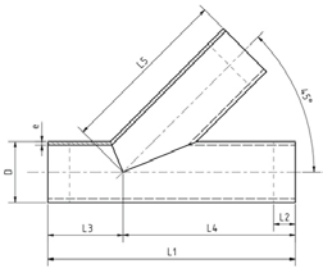
d (mm)	Code	L (mm)	L1 (mm)	e (mm)
400	**700 649 468**	461	300	22.7
450		481	300	25.5
500		551	350	28.3
560		575	350	31.7
630		603	350	35.7



PROGEF Elbow 60°, PP-H S8/SDR17.6

- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

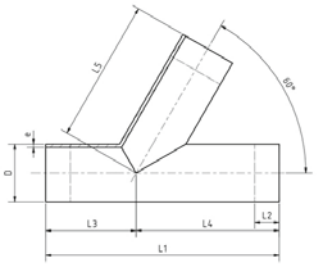
d (mm)	Code	L (mm)	L1 (mm)	e (mm)
110	**700 649 408**	245	150	6.3
125	**700 649 409**	258	150	7.1
140	**700 649 410**	271	150	8.0
160	**700 649 411**	288	150	9.1
180	**700 649 412**	305	150	10.2
200	**700 649 413**	323	150	11.4
225	**700 649 414**	345	150	12.8
250	**700 649 415**	466	250	14.2
280	**700 649 416**	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

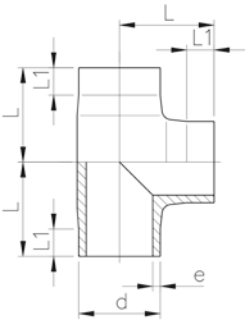


PROGEF Branch 60° PP-H S8/SDR17.6

- 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:

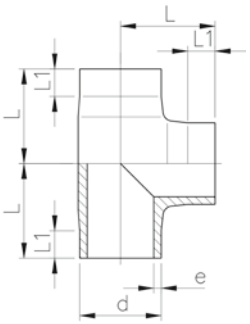
- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

Note:

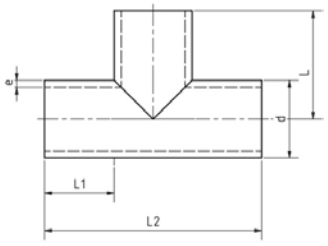
[1]Material: PP-R

	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

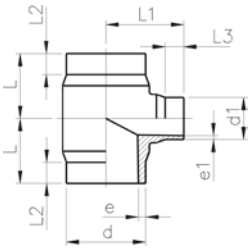


Tees 90°, equal, PP-H S8/SDR17.6

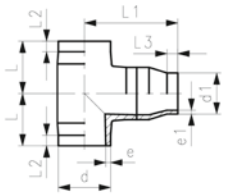
- For butt- and electro fusion
- Reduction factor = 0,6
- big dimensions on request

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



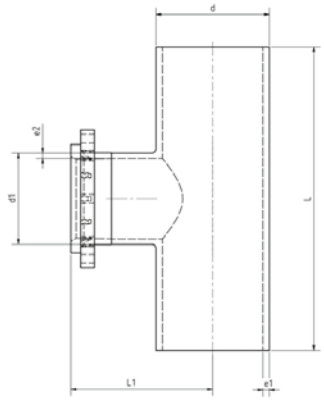
PROGEF Standard Tee 90° reduced SDR17.6/PN6

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



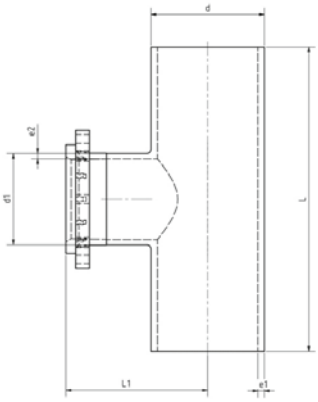
Revision Tees 90°, PP-H SDR17.6

Model:

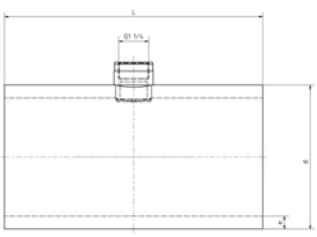
- Flued and butt fusion according to DVS2207
- Backing flanges to ISO 7005, EN 1092, DIN 2501, bolt circle PN10
- Reduction factor = 0,6
- big dimensions on request

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



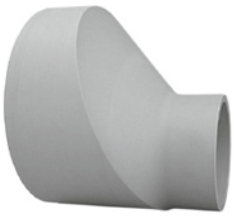
d (mm)	d1 (mm)	PN (bar)	Code	L (mm)	L1 (mm)	e1 (mm)	e2 (mm)
400	225	6	**700 665 651**	1000	450	22,7	12,8
450	315	6	**700 665 652**	1100	500	25,5	17,9
500	315	6	**700 665 653**	1200	500	28,4	17,9
560	315	6	**700 665 654**	1300	550	31,7	17,9
630	315	6	**700 665 655**	1450	550	35,7	17,9

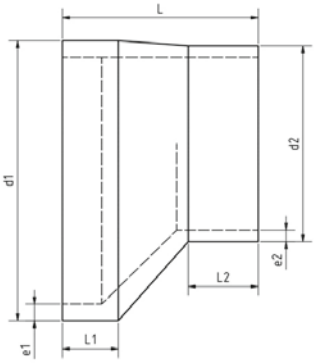


Saddle-Tee, PP-H S8/SDR17.6 Outlet with female thread Rp, welded

- 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





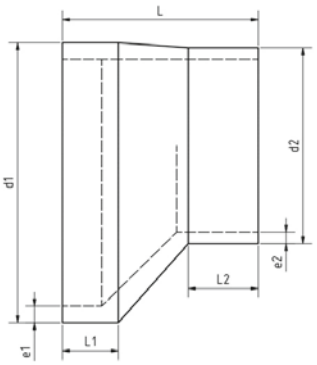
PROGEF Reducing Bushes excentric, PP-H SDR17.6

Model:

- Machined
- Conventional butt-welding according to DVS 2207

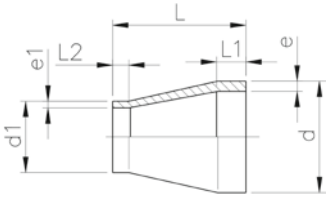
d1 (mm)	d2 (mm)	PN (bar)	Code	Weight (kg)	e1 (mm)	L1 (mm)	L (mm)	L2 (mm)	e2 (mm)
63	50	6	**700 647 750**	0.020	3,6	35	120	35	2,9
75	50	6	**700 647 751**	0.041	4,3	40	120	35	2,9
75	63	6	**700 647 752**	0.048	4,3	40	120	35	3,6
90	63	6	**700 647 753**	0.079	5,1	50	140	50	3,6
90	75	6	**700 647 754**	0.090	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

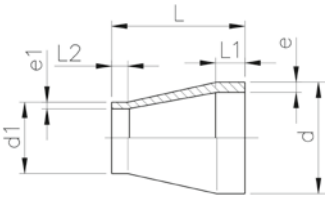
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

[1] Material: PP-R

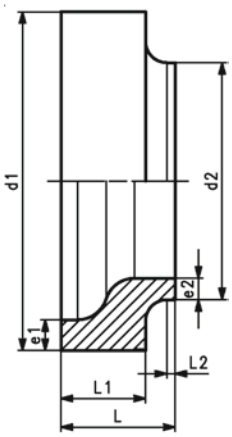
	d (mm)	d1 (mm)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	e1 (mm)
	50	40	17.6	6	IR	**727 908 713**	0.018	134	56	52	2.9	2,3
	63	40	17.6	6	IR	**727 908 901**	0.020	65	16	12	3.6	2,3
	63	50	17.6	6	IR	**727 908 718**	0.055	87	29	27	3.6	2,9
	75	40	17.6	6	IR	**727 908 904**	0.041	65	20	20	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

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	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





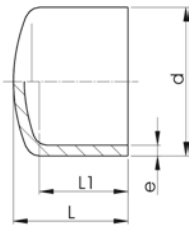
PROGEF Standard Flush style reducer
SDR17.6/PN6

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





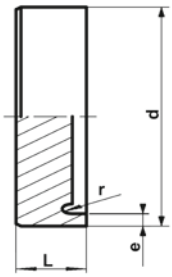
PROGEF Standard End cap
SDR17.6/PN6

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



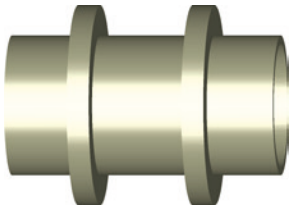


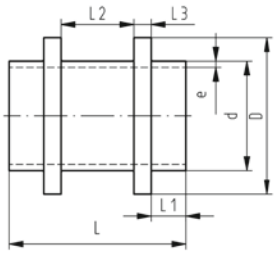
PROGEF Standard End cap short
SDR17.6/PN6

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





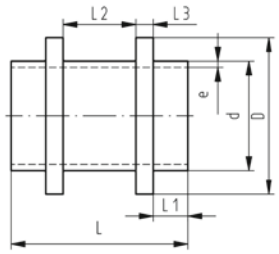
PROGEF Standard Fixpoint fitting
SDR17.6/PN6

Model:

- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207
- Machined

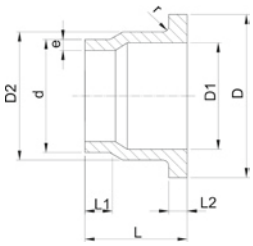
d (mm)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D (mm)	e (mm)
63	17.6	6	IR	**727 665 539**	0.138	122	30	42	10	90	3.8
75	17.6	6	IR	**727 665 540**	0.203	122	30	42	10	110	4.5
90	17.6	6	IR	**727 665 541**	0.267	122	30	42	10	125	5.4
110	17.6	6	IR	**727 665 542**	0.438	142	30	52	15	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



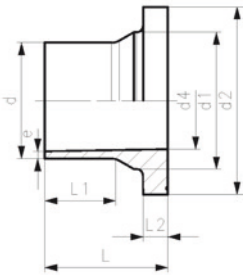
Type B



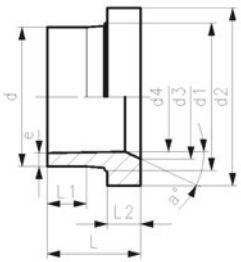
Type C



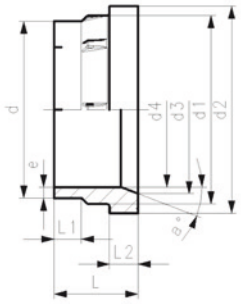
Type A



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



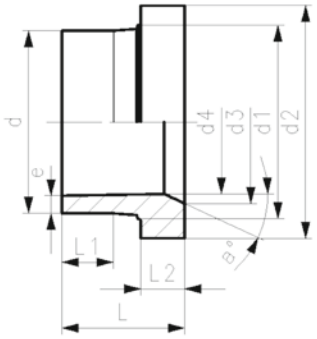
PROGEF Standard Flange adaptor for butterfly valves SDR17.6/PN6

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

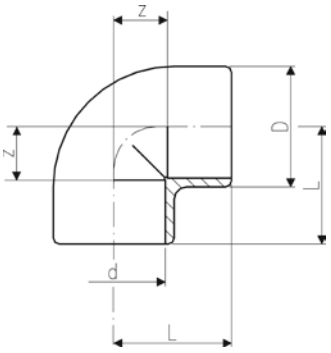


PROGEF Standard Elbow 90° PN10

Model:

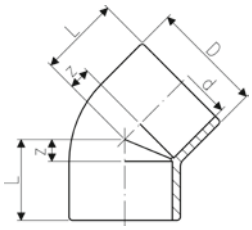
- Material: PP-H

* 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

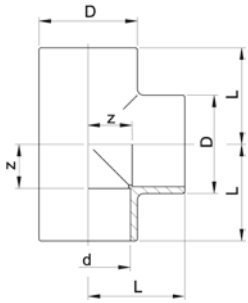
Model:

- 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

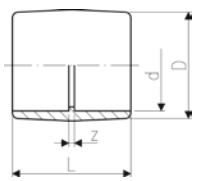
Model:

- 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

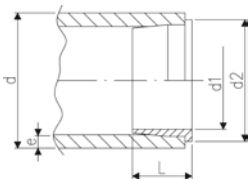
Model:

- 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

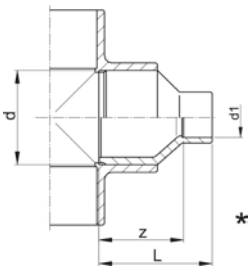
Model:

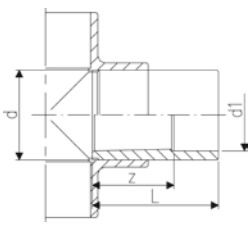
- Material: PP-H
- With fusion spigots on both sides
- For the shortest possible distance between fittings

* 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:

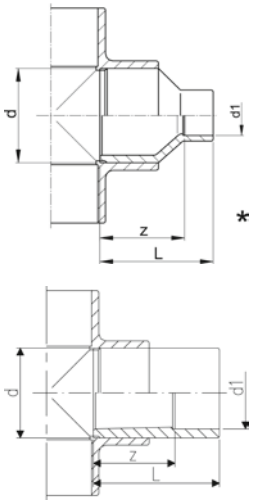
- Material: PP-H

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

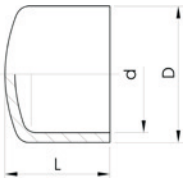


PROGEF Standard End cap PN10

Model:

- Material: PP-H

* use pipe SDR 7.4



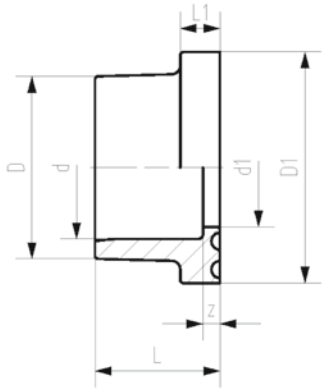
	d (mm)	PN (bar)	Code	Weight (kg)	L (mm)	D (mm)
*	16	10	**727 960 105**	0.006	20	25
	20	10	**727 960 106**	0.009	27	30
	25	10	**727 960 107**	0.015	30	36
	32	10	**727 960 108**	0.023	34	44
	40	10	**727 960 109**	0.035	38	53
	50	10	**727 960 110**	0.061	44	65
	63	10	**727 960 111**	0.102	51	80
	75	10	**727 960 112**	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

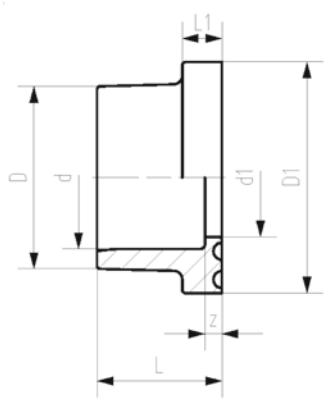
Model:

- 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



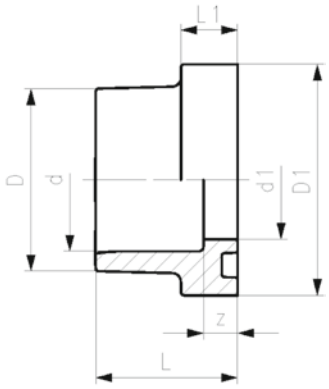
d (mm)	DN (mm)	Standard	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	D (mm)	D1 (mm)	d1 (mm)	z (mm)
20	15	Metric/ANSI	10	**727 790 206**	0.011	19	7	27	45	16	5
25	20	Metric	10	**727 790 207**	0.022	21	9	33	58	21	5
25		ANSI	10	**727 790 257**	0.018	21	7	33	54	21	5
32	25	Metric	10	**727 790 208**	0.033	23	10	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





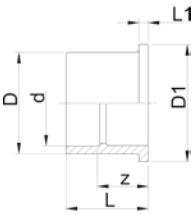
PROGEF Standard Flange adaptor
PN10 Jointing face with o-ring groove

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

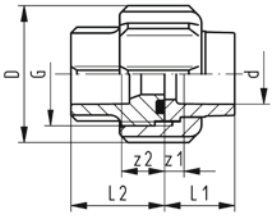
Model:

- 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:

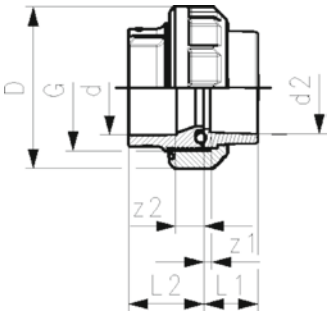
- Material: PP-H
- Fusion socket metric
- Jointing face: With O-ring groove
- **For the dimensions d75-110 please see instructions for the installation**

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

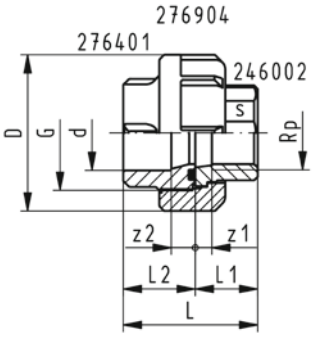
Model:

- 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

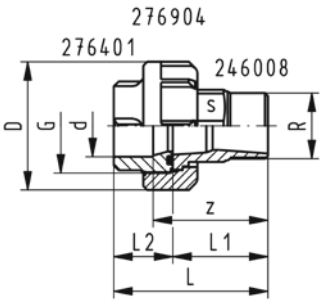
Model:

- 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





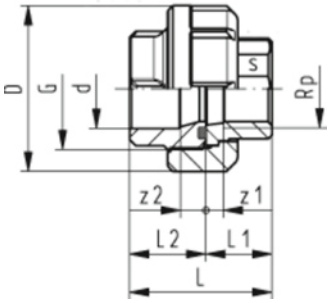
PROGEF Standard Adaptor union
PN10 PP-H/malleable iron galvanised metric R

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

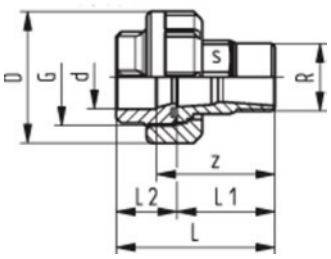
Model:

- 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

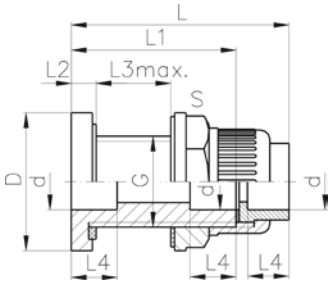
Model:

- 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

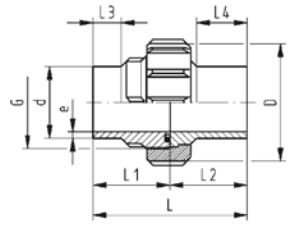
Model:

- 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:

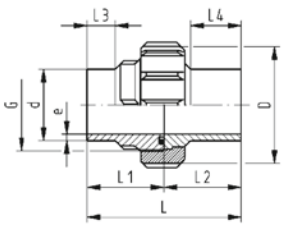
- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207

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

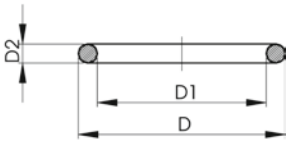
d (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D (mm)	G (inch)	e (mm)	Size	O-Ring EPDM
20	107.0	54.0	53.0	26	37	48	1	1.9	20,22 x 3,53	748.410.006
25	113.0	57.0	56.0	26	36	58	1 1/4	2.3	28,17 x 3,53	748.410.007
32	119.0	60.0	59.0	26	25	65	1 1/2	2.9	32,93 x 3,53	748.410.008
40	126.0	63.0	63.0	26	25	79	2	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

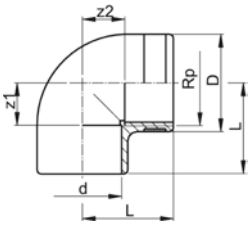
Note:

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





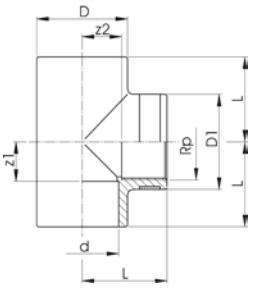
PROGEF Standard Elbow 90° PN10 metric Rp

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





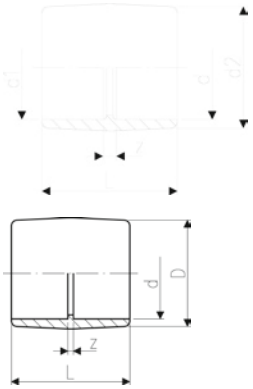
PROGEF Standard Tee 90°
PN10 metric Rp

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





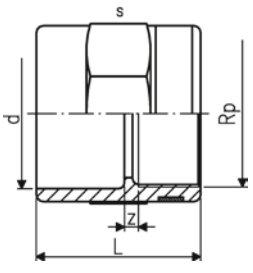
PROGEF Standard Adaptor socket
PN10 Metric Inch BS

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





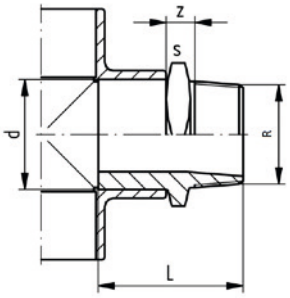
PROGEF Standard Adaptor socket
PN10 Metric Rp

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





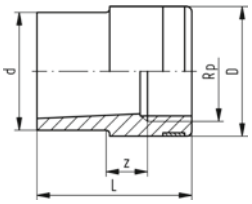
PROGEF Standard Adaptor nipple
PN10 Metric R

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





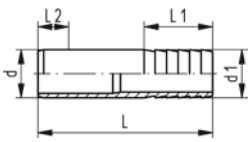
PROGEF Standard Reducing bush
PN10 metric Rp

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

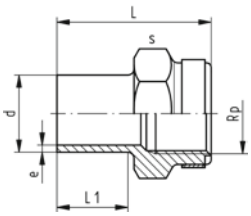
Model:

- 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





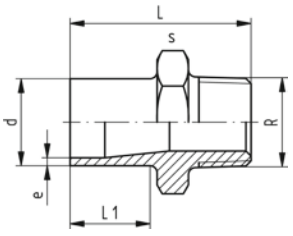
PROGEF Standard Adaptor socket
Metric Rp SDR11 (PN10)

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





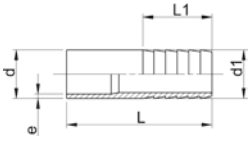
PROGEF Standard Adaptor nipple
Metric R SDR11 (PN10)

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



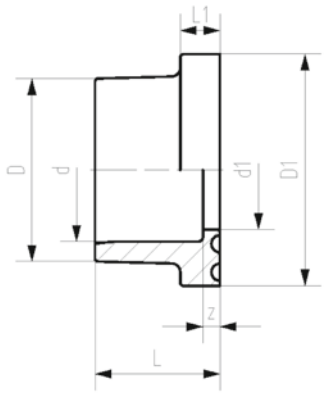


PROGEF Standard Hose Connector
Metric SDR11 (PN10)

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





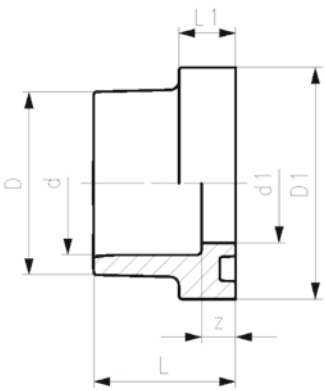
PROGEF Standard Flange adaptor
PN10 Jointing face flat/serrated

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



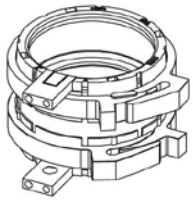
Option 1: Jointing by electrofusion



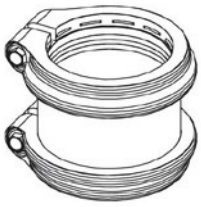
Option 2: Fast-lock mechanical joining

Fitting Guide

Coupling (S x S) / Sleeve Coupling (S x S)

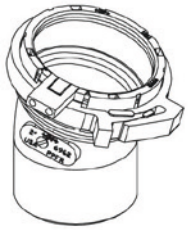


Electrofusion



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

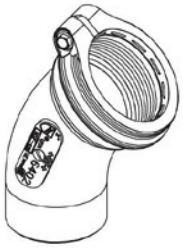


Fast-Lock

Bend 45° (1/8) - Street (S x SPG)

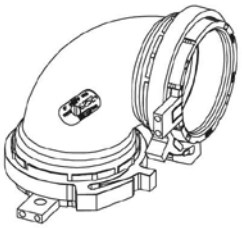


Electrofusion

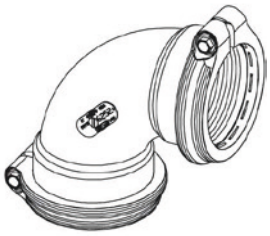


Fast-Lock

Bend 88.8° (1/4) (S x S)

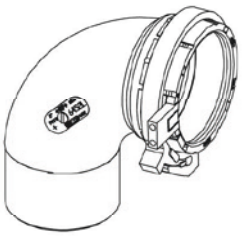


Electrofusion

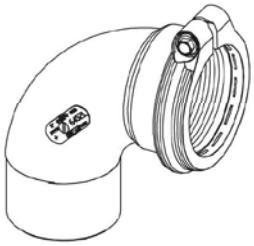


Fast-Lock

Bend 88.8° (1/4) - Street (S x SPG)

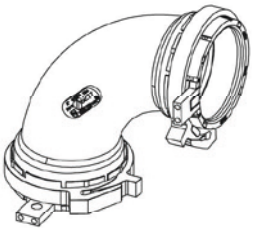


Electrofusion

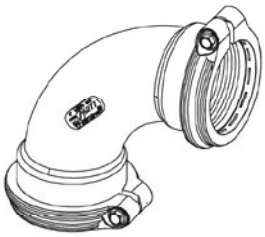


Fast-Lock

Bend 88.8° (1/4) - Long Sweep (S x S)



Electrofusion



Fast-Lock

Bend 88.8° (1/4) - Long Sweep Steet (S x SPG)

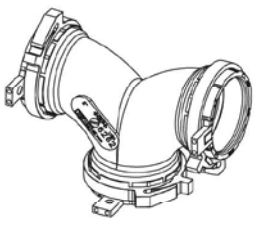


Electrofusion

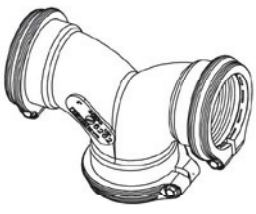


Fast-Lock

Bend 3-Way 88.8° (1/4) (S x S x S)



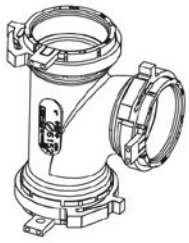
Electrofusion



Fast-Lock

Fitting Guide (continued)

Branch Tee 88.8° (S x S x S)

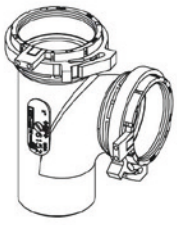


Electrofusion



Fast-Lock

Branch Tee 88.8° - Street (S x S x SPG)

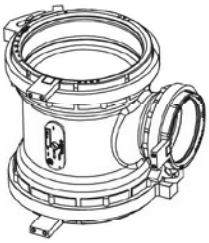


Electrofusion

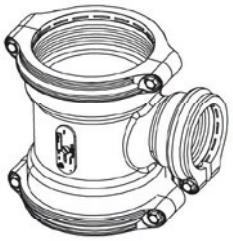


Fast-Lock

Reducing Branch Tee 88.8° (S x S x S)



Electrofusion



Fast-Lock

Reducing Branch Tee 88.8° - Street (S x S x SPG)

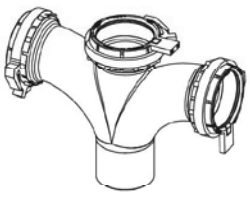


Electrofusion

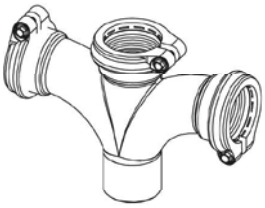


Fast-Lock

Double Reducing Branch Tee 88.8° - Street (S x S x S x SPG)

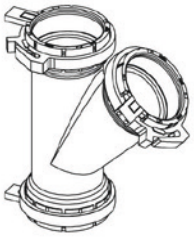


Electrofusion



Fast-Lock

Branch Wye 45° (S x S x S)

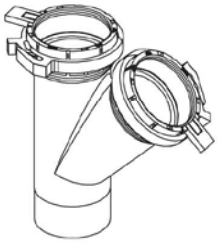


Electrofusion



Fast-Lock

Branch Wye 45° - Street (S x S x SPG)



Electrofusion



Fast-Lock

Reducing Branch Wye 45° - Street (S x S x SPG)

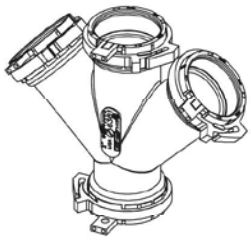


Electrofusion



Fast-Lock

Double Branch Wye 45° (S x S x S x S)

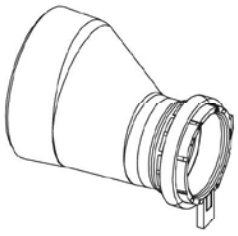


Electrofusion



Fast-Lock

Eccentric Pipe Increaser - Street (SPG x S)



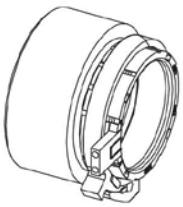
Electrofusion



Fast-Lock

Fitting Guide (continued)

Reducing Bushing - Street (SPG x S)

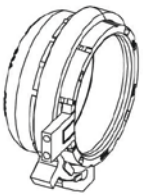


Electrofusion

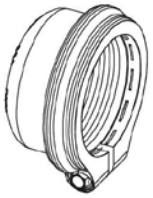


Fast-Lock

Cap (S)

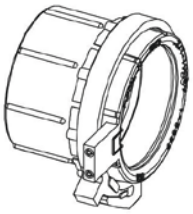


Electrofusion

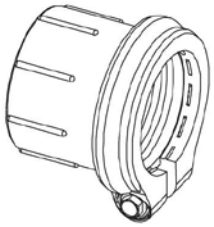


Fast-Lock

Female Adapter (S x FPT) / Female Adapter (S x BSP)

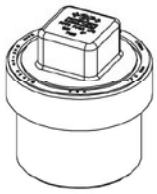


Electrofusion



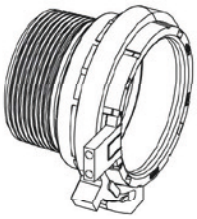
Fast-Lock

Cleanout Adapter with Plug - Street (SPG x FT)

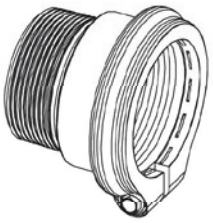


Spigot

Male Adapter (S x FPT) / Male Adapter (S x BSP)

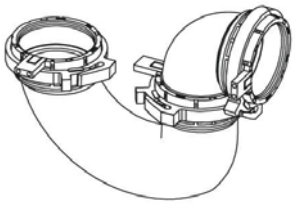


Electrofusion

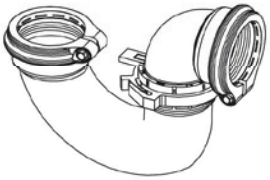


Fast-Lock

P-Trap (S x S)

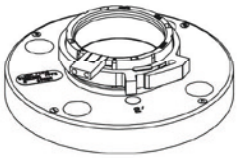


Electrofusion

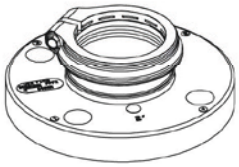


Fast-Lock

Flange - V.S. ANSI 150lb (S) / Flange - V.S. DIN (PN10) (S)

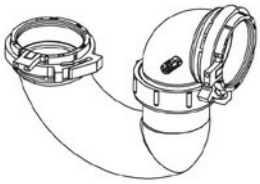


Electrofusion

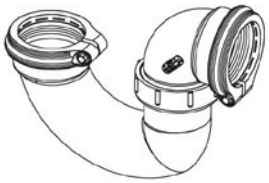


Fast-Lock

P-Trap with Union Connection (S x S)

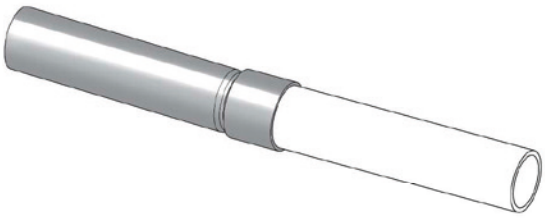


Electrofusion



Fast-Lock

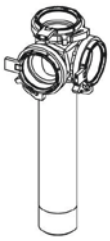
Metal Transition Fitting (Weld x SPG)



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)

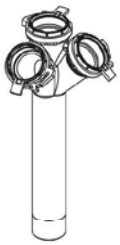


Electrofusion

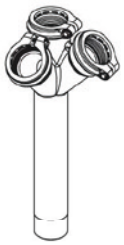


Fast-Lock

Double Branch Wye 90° Corner Connector - Street (S x S x S x SPG)



Electrofusion



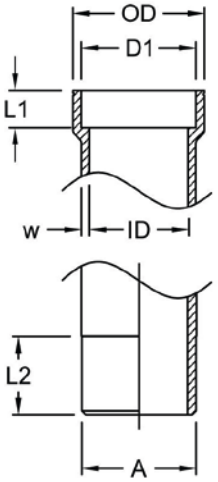
Fast-Lock

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

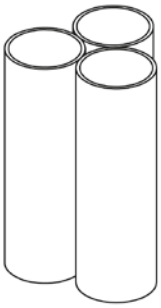
Socket / Spigot Dimensions (mm)

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

Table of contents

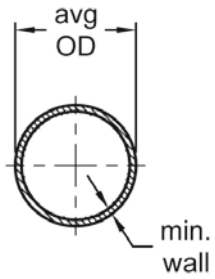
Pipe	484
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Pipe

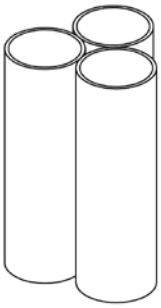


SeaDrain Schedule 40 Pipe White 10 Ft. Length

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

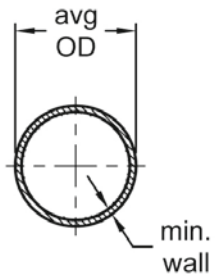


Lift Qty. (10ft Lgths) (ft)	avg. od (inch)	min. wall (inch)	avg. od (mm)	min. wall (mm)
2940	1.900	0.145	48.3	3.7
1760	2.375	0.154	60.3	3.9
1260	2.875	0.203	73.0	5.2
580	3.500	0.216	88.9	5.5
430	4.500	0.237	114.3	6.0
170	6.625	0.280	168.3	7.1



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



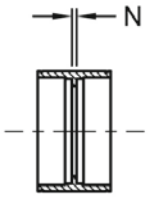
Lift Qty. (20ft Lgths) (ft)	avg. od (inch)	min. wall (inch)	avg. od (mm)	min. wall (mm)
5880	1.900	0.145	48.3	3.7
3520	2.375	0.154	60.3	3.9
2520	2.875	0.203	73.0	5.2
1480	3.500	0.216	88.9	5.5
860	4.500	0.237	114.3	6.0
340	6.625	0.280	168.3	7.1

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

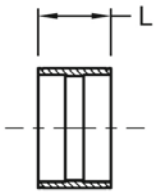


SeaDrain Sleeve Coupling (SxS)

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

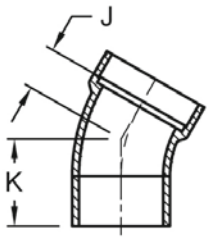


Bends and Elbows

SeaDrain 1/12 Bend Street (SxSPG) 30°



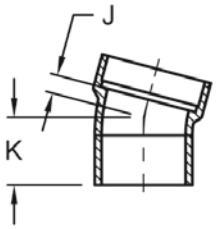
Size (inch)	DN (mm)	elektrolassen Code	Fast-Lock Code	Weight (lb)	J (inch)	K (inch)	BC (mm)	K (mm)
1 ½	40	**373 164 601**	**377 164 601**	0.198	0.75	2.03	19	51
2	50	**373 164 602**	**377 164 602**	0.283	0.88	2.26	22	57
2 ½	65	**373 164 625**	**377 164 625**	0.536	1.08	2.56	27	65
3	80	**373 164 603**	**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°



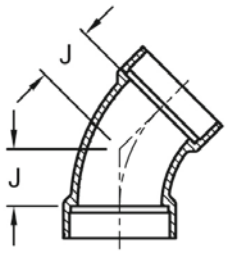
Size (inch)	DN (mm)	elektrolassen Code	Fast-Lock Code	Weight (lb)	J (inch)	K (inch)	J (mm)	K (mm)
1 ½	40	**373 169 601**	**377 169 601**	0.199	0.62	1.66	16	42
2	50	**373 169 602**	**377 169 602**	0.257	0.63	1.75	16	52
2 ½	65	**373 169 625**	**377 169 625**	0.350	0.53	2.00	13	50
3	80	**373 169 603**	**377 169 603**	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°



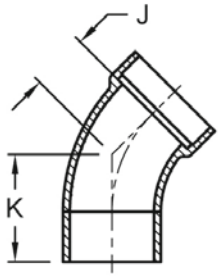
Size (inch)	DN (mm)	elektrolassen Code	Weight (lb)	Fast-Lock Code	J (inch)	J (mm)
1 ½	40	**373 165 001**	0.195	**377 165 001**	1.13	29
2	50	**373 165 002**	0.302	**377 165 002**	1.50	38
2 ½	65	**373 165 025**	0.427	**377 165 025**	1.68	43
3	80	**373 165 003**	0.960	**377 165 003**	1.75	44
4	100	**373 165 004**	1.398	**377 165 004**	2.19	56
6	150	**373 165 006**	1.600		3.37	86



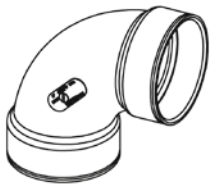
SeaDrain 1/8 Bend Street (SxSPG) 45°



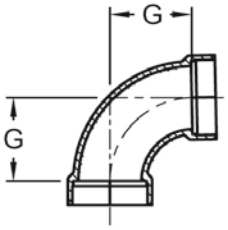
Size (inch)	DN (mm)	Electrofusion Code	Weight (lb)	Fast-Lock Code	J (inch)	K (inch)	J (mm)	K (mm)
1 ½	40	**373 164 001**	0.165	**377 164 001**	1.13	2.74	29	62
2	50	**373 164 002**	0.333	**377 164 002**	1.50	2.50	38	64
2 ½	65	**373 164 025**	0.702	**377 164 025**	1.68	3.15	43	80
3	80	**373 164 003**	0.595	**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



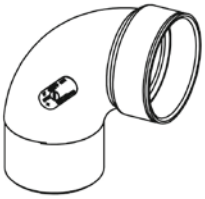
SeaDrain 1/4 Bend (SxS) 88.8°



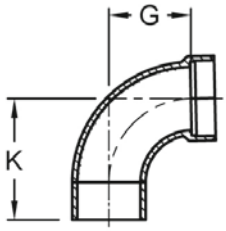
Size (inch)	DN (mm)	elektrolassen Code	Weight (lb)	Fast-Lock Code	G (inch)	G (mm)
1 ½	40	**373 182 501**	0.333	**377 182 501**	1.75	44
2	50	**373 182 502**	0.330	**377 182 502**	2.31	59
2 ½	65	**373 182 525**	0.539	**377 182 525**	3.21	82
3	80	**373 182 503**	0.794	**377 182 503**	3.06	78
4	100	**373 182 504**	1.200	**377 182 504**	3.88	99
6	150	**373 182 506**	2.460		5.63	143



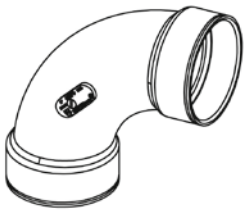
SeaDrain 1/4 Bend Street (SxSPG) 88.8°



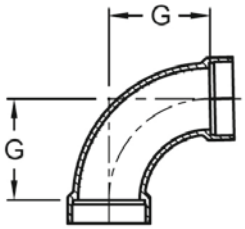
Size (inch)	DN (mm)	Electrofusion Code	Weight (lb)	Fast-Lock Code	G (inch)	K (inch)	G (mm)	K (mm)
1 ½	40	**373 164 501**	0.248	**377 164 501**	1.75	3.11	44	79
2	50	**373 164 502**	0.361	**377 164 502**	2.31	3.70	59	94
2 ½	65	**373 164 525**	0.445	**377 164 525**	3.21	4.75	82	121
3	80	**373 164 503**	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°



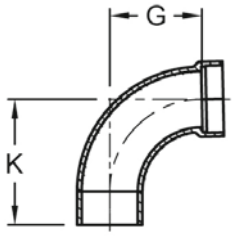
Size (inch)	DN (mm)	elektrolassen Code	Fast-Lock Code	Weight (lb)	G (inch)	G (mm)
1 ½	40	**373 162 701**	**377 162 701**	0.384	2.75	70
2	50	**373 162 702**	**377 162 702**	0.527	3.25	83
3	80	**373 162 703**	**377 162 703**	1.282	4.06	130
4	100	**373 162 704**	**377 162 704**	1.986	4.94	125



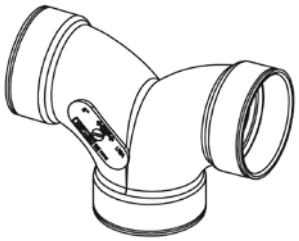
SeaDrain 1/4 Bend Long Sweep Street (SxSPG) 88.8°

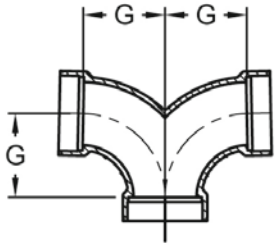


Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	Weight (lb)	G (inch)	K (inch)	G (mm)	K (mm)
1 ½	40	**373 162 901**	**377 162 901**	0.380	2.75	4.29	70	109
2 ½	65	**373 162 925**	**377 162 925**	0.908	4.00	5.53	102	140



SeaDrain 3-way 1/4 Bend (SxSxS) 88.8°

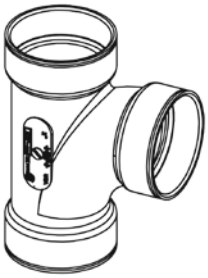


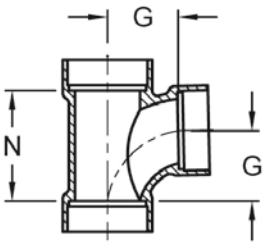


Size (inch)	DN (mm)	elektrolassen Code	Fast-Lock Code	Weight (lb)	G (inch)	G (mm)
1 ½	40	**373 162 601**	**377 162 601**	0.482	1.75	44
2	50	**373 162 602**	**377 162 602**	0.663	2.31	59

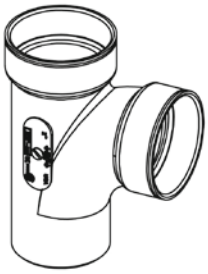
Tees, Y-Pieces and Crosses

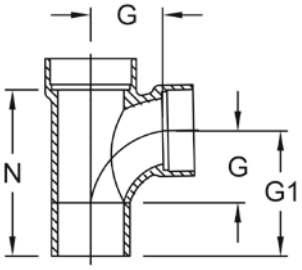
Branch Tee 88.8° (SxSxS)





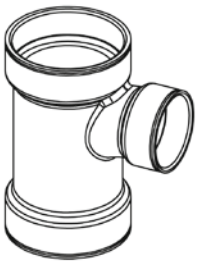
Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	Weight (lb)	G (inch)	N (inch)	G (mm)	N (mm)
1 ½	40	**373 161 501**	**377 161 501**	0.490	1.75	2.75	44	70
2	50	**373 161 502**	**377 161 502**	0.665	2.31	3.69	59	94
3	80	**373 161 503**	**377 161 503**	1.677	3.06	4.88	78	124
4	100	**373 161 504**	**377 161 504**	2.252	3.88	6.13	99	156

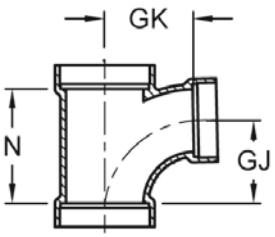




Branch Tee 88.8° Street (SxSxSPG)

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

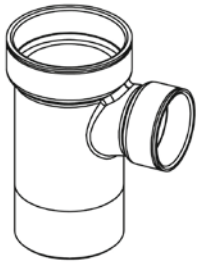


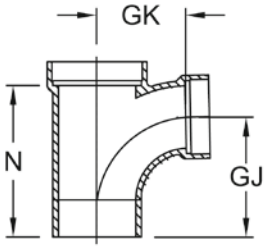


Reducing Branch Tee 88.8° (SxSxS)

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

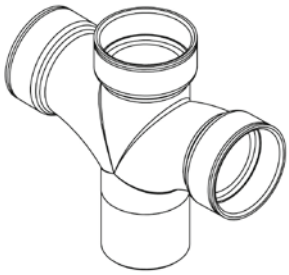
Reducing Branch Tee 88.8° Street (SxSxSPG)

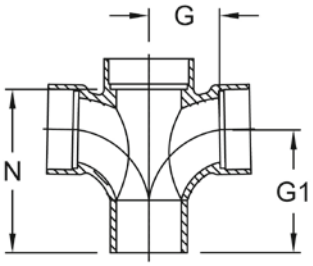




Inch (inch)	DN (mm)	Electrofusion Code	Weight (lb)	Fast-Lock Code	GK (inch)	GJ (inch)	N (inch)	GK (mm)	GJ (mm)	N (mm)
2 1/2 x 1 1/2	65 x 40	**373 161 628**	0.556	**377 161 628**	2.56	3.98	5.49	65	101	139
3 x 1 1/2	80 x 40	**373 161 631**	0.623	**377 161 631**	3.02	3.25	4.19	77	83	106
3 x 2 1/2	80 x 65	**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

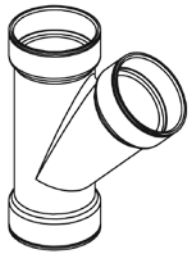
Double Reducing Branch Tee 88.8° Street (SxSxSxSPG)



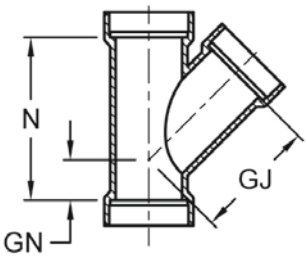


Inch (inch)	DN (mm)	Electrofusion Code	Weight (lb)	Fast-Lock Code	G (inch)	N (inch)	G1 (inch)	G (mm)	N (mm)	G1 (mm)
1 1/2 x 1 1/2	40 x 40	**373 161 701**	0.420	**377 161 701**	3.00	4.74	4.00	76	120	102
2 1/2 x 1 1/2	65 x 40	**373 161 728**	0.650	**377 161 728**	3.00	4.56	3.50	76	116	89
4 x 1 1/2	100 x 40	**373 161 733**	3.020	**377 161 733**	3.00	5.56	3.50	76	141	89

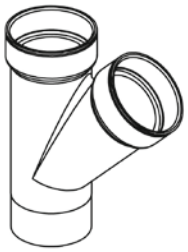
Branch Wye 45° (SxSxS)



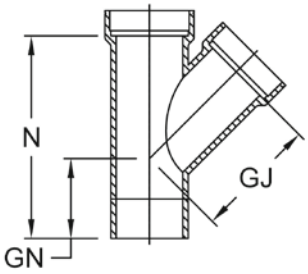
Size (inch)	DN (mm)	elektrolassen Code	Weight (lb)	Fast-Lock Code	GJ (inch)	GN (inch)	N (inch)	GJ (mm)	GN (mm)	N (mm)
1 ½	40	**373 163 001**	0.352	**377 163 001**	2.88	1.13	4.00	73	29	102
2	50	**373 163 002**	0.758	**377 163 002**	3.63	1.38	5.00	92	35	127
3	80	**373 163 003**	1.672	**377 163 003**	5.00	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

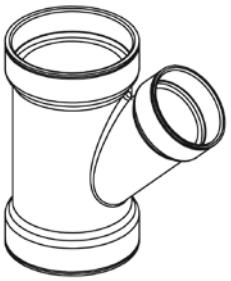


Branch Wye 45° Street (SxSxSPG)



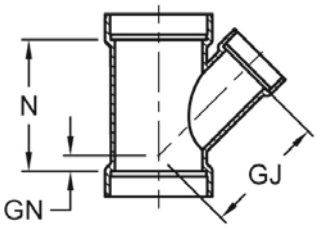
Size (inch)	DN (mm)	Electrofusion Code	Weight (lb)	Fast-Lock Code	GJ (inch)	GN (inch)	N (inch)	GJ (mm)	GN (mm)	N (mm)
1 ½	40	**373 163 101**	0.306	**377 163 101**	2.88	2.43	5.30	73	62	135
2 ½	65	**373 163 125**	1.328	**377 163 125**	4.56	3.00	7.56	116	76	192
3	80	**373 163 103**	1.084	**377 163 103**	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

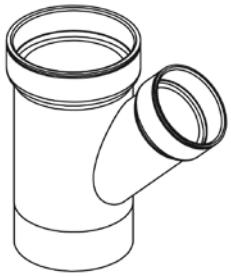




Reducing Branch Wye 45° (SxSxS)

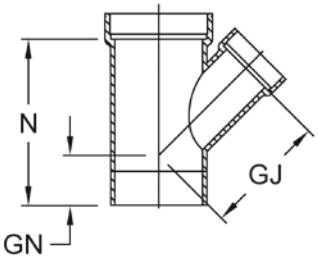
Inch (inch)	DN (mm)	elektrolassen Code	Weight (lb)	Fast-Lock Code	GJ (inch)	GN (inch)	N (inch)	GJ (mm)	GN (mm)	N (mm)
2 x 1 1/2	50 x 40	**373 163 030**	0.675	**377 163 030**	3.44	1.06	4.38	87	27	111
3 x 1 1/2	80 x 40	**373 163 031**	1.365	**377 163 031**	6.25	0.88	5.00	159	22	127
3 x 2	80 x 50	**373 163 032**	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	

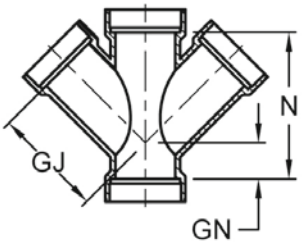


GJ (inch)	GN (inch)	N (inch)	GJ (mm)	GN (mm)	N (mm)
3.65	3.00	6.42	93	76	163
4.09	3.13	7.01	104	80	178
5.00	3.23	8.13	127	82	207
5.00	3.00	7.65	127	76	194
5.62	3.00	8.37	143	76	213
6.00	2.56	8.37	152	65	213
8.50	2.18	10.23	216	55	260



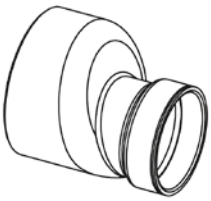
Double Branch Wye 45° (SxSxSxS)

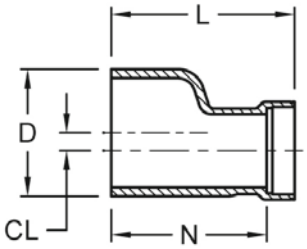
Size (inch)	DN (mm)	elektrolassen Code	Fast-Lock Code	Weight (lb)	GJ (inch)	GN (inch)	N (inch)	GJ (mm)	GN (mm)	N (mm)
1 ½	40	**373 163 501**	**377 163 501**	0.734	3.50	1.13	4.63	89	29	118
2	50	**373 163 502**	**377 163 502**	1.010	4.00	1.38	5.38	102	35	137
2 ½	65	**373 163 525**	**377 163 525**	1.574	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)

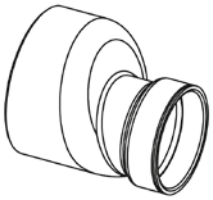




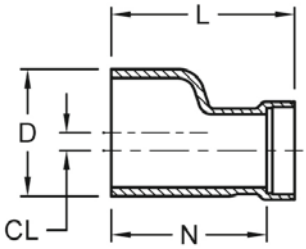
Inch (inch)	DN (mm)	elektrolassen Code	Weight (lb)	Fast-Lock Code
2 x 1 1/2	50 x 40	**373 171 030**	0.163	**377 171 030**
2 1/2 x 1 1/2	65 x 40	**373 171 028**	0.223	**377 171 028**
2 1/2 x 2	65 x 50	**373 171 021**	0.251	**377 171 021**
3 x 1 1/2	80 x 40	**373 171 031**	0.297	**377 171 031**
3 x 2	80 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

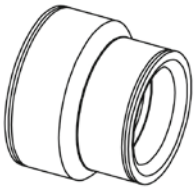
table continued on the next page



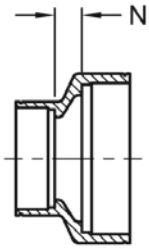
D (inch)	L (inch)	N (inch)	CL (inch)	D (mm)	L (mm)	N (mm)	CL (mm)
6.63	5.25	4.31	1.98	168	133	110	50
6.63	4.26	3.32	1.79	168	108	84	46
6.63	4.26	3.32	1.49	168	108	84	38
6.63	4.26	3.32	1.01	168	108	84	26



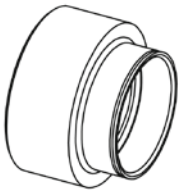
Pipe Increaser (SxS)



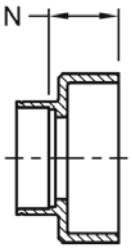
Inch (inch)	DN (mm)	elektrolassen Code	Fast-Lock Code	Weight (lb)	N (inch)	N (mm)
1 1/2 x 2	40 x 50	**373 170 230**	**377 170 230**	0.303	0.53	14
2 x 3	50 x 80	**373 170 232**	**377 170 232**	0.574	0.88	22
2 x 4	50 x 100	**373 170 234**	**377 170 234**	0.780	1.38	35
3 x 4	80 x 100	**373 170 235**	**377 170 235**	0.980	0.94	24



Reducer Bushing Street (SPGxS)

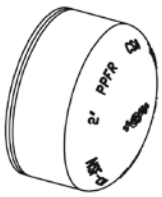


Inch (inch)	DN (mm)	Electrofusion Code	Weight (lb)	Fast-Lock Code	N (inch)	N (mm)
2 x 1 1/2	50 x 40	**373 187 530**	0.197	**377 187 530**	1.61	41
3 x 1 1/2	80 x 40	**373 187 531**	0.221	**377 187 531**	1.50	38
3 x 2	80 x 50	**373 187 532**	0.231	**377 187 532**	1.50	38
4 x 2	100 x 50	**373 187 534**	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

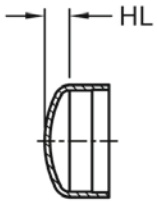


Caps and End Caps

SeaDrain Cap (S)

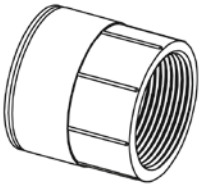


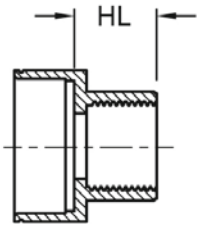
Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	Weight (lb)	HL (inch)	HL (mm)
1 ½	40	**373 170 801**	**377 170 801**	0.151	0.32	8
2	50	**373 170 802**	**377 170 802**	0.160	0.53	14
2 ½	65	**373 170 825**	**377 170 825**	0.325	0.91	23
3	80	**373 170 803**	**377 170 803**	0.536	0.91	24
4	100	**373 170 804**	**377 170 804**	0.749	1.09	28
6	150	**373 170 806**		0.698	1.56	40



Adapters and Transitions

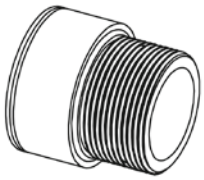
Female Adapter (SxFPT)

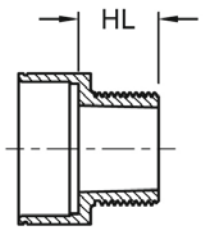




Size (inch)	DN (mm)	Thread Type	NPT (inch)	Electrofusion Code	Fast-Lock Code	Weight (lb)	HL (inch)	HL (mm)
1 ½	40	NPT	1 ½	**373 168 901**	**377 168 901**	0.174	1.12	28
2	50	NPT	2	**373 168 902**	**377 168 902**	0.197	1.15	29
3	80	NPT	3	**373 168 903**	**377 168 903**	0.574	1.72	45
4	100	NPT	4	**373 168 904**	**377 168 904**	0.728	1.81	46

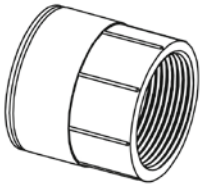
Male Adapter (SxMPT)



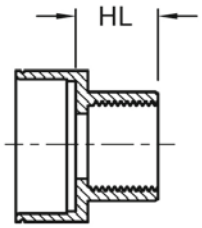


Size (inch)	DN (mm)	Thread Type	NPT (inch)	Electrofusion Code	Fast-Lock Code	Weight (lb)	HL (inch)	HL (mm)
1 ½	40	NPT	1 ½	**373 168 701**	**377 168 701**	0.156	1.18	30
2	50	NPT	2	**373 168 702**	**377 168 702**	0.200	1.25	32
3	80	NPT	3	**373 168 703**	**377 168 703**	0.529	1.84	47
4	100	NPT	4	**373 168 704**	**377 168 704**	0.647	2.00	51

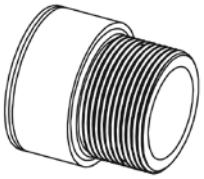
Female Adapter (SxBSP)



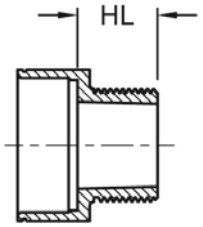
Size (inch)	DN (mm)	Thread Type	Thread BSP (inch)	Electrofusion Code	Weight (lb)	Fast-Lock Code	HL (inch)	HL (mm)
1 ½	40	BSP	1	**373 168 123**	0.104	**377 168 123**	1.00	25
1 ½	40	BSP	1 ¼	**373 168 122**	0.109	**377 168 122**	1.06	27
1 ½	40	BSP	1 ½	**373 168 101**	0.113	**377 168 101**	1.12	28
1 ½	40	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



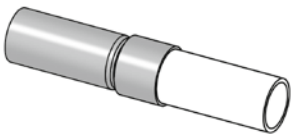
Male Adapter (SxBSP)



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



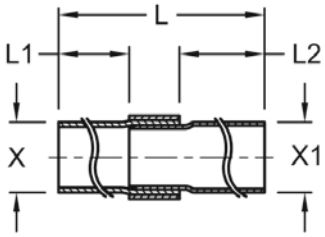
Metal Transition Fitting (WeldxSPG)



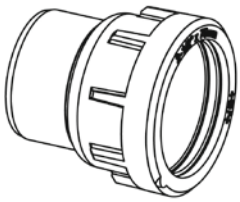
Instruments:

- 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

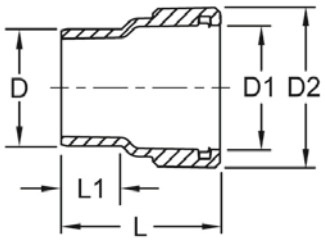


Blucher Transition Fitting (PushxSPG)

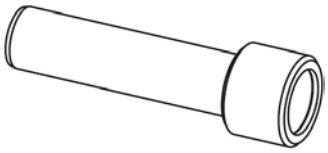


Size (inch)	DN (mm)	Blucher (mm)	Code	Weight (lb)
1 ½	40	50	**373 187 640**	0.251
2 ½	65	75	**373 187 665**	0.260
4	100	110	**373 187 610**	0.350
6	150	160	**373 187 615**	1.200

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

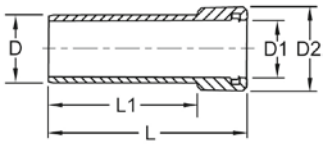


Blucher Extended Transition Fitting (PUSHxSPG)

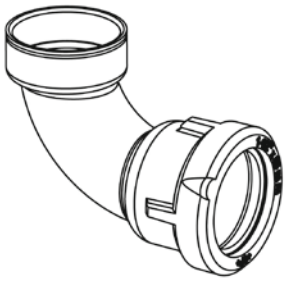


Size (inch)	DN (mm)	Blucher (mm)	Code	Weight (lb)
1 ½	40	50	**373 387 901**	0.400
2 ½	65	75	**373 387 925**	0.500

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

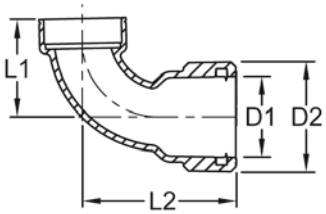


Blucher 90° Transition Fitting (PUSHxSOC)



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

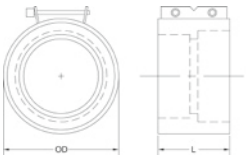
D1 (inch)	D2 (inch)	L1 (inch)	L2 (inch)	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)
2.01	2.80	2.51	3.87	51.1	71.1	63.8	98.2



Metal Transition Coupling

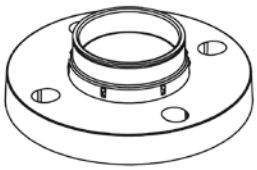


Size (inch)	DN-DN (mm)	T304SS Code	Weight (lb)	T316LSS Code	O.D. (inch)	L (inch)
1 ½	48 - 50	**373 188 870**	0.250	**373 188 770**	3	2
1 ½	53 - 55	**373 188 800**	0.441		3	2
2	53 - 55	**373 188 810**	0.408		3	2
2	74 - 77	**373 188 820**	0.225		4	2
3	75 - 76	**373 188 830**	0.600	**373 188 730**	4	2
4	102 - 110	**373 188 840**	0.750	**373 188 740**	5	2
6	159 - 160	**373 188 860**	1.000		7	3

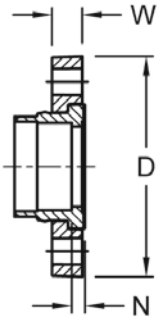


Flange Connections

SeaDrain Van Stone Flange (S) ANSI 150LB

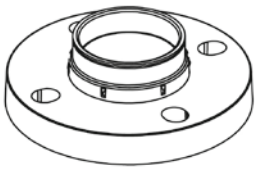


Size (inch)	DN (mm)	elektrolassen Code	Weight (lb)	Fast-Lock Code
1 ½	40	**373 169 301**	0.537	**377 169 301**
2	50	**373 169 302**	0.644	**377 169 302**
2 ½	65	**373 169 325**	1.068	**377 169 325**
3	80	**373 169 303**	1.403	**377 169 303**
4	100	**373 169 304**	1.659	**377 169 304**
6	150	**373 169 306**	2.650	

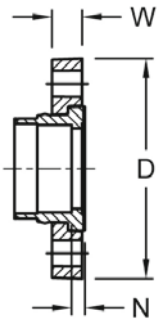


# holes	bout-gat dia. (needs to be deleted) (inch)	bolt cir. dia. (inch)	D (inch)	N (inch)	W (inch)	bolt hole dia. (mm)	bolt cir-cle dia. (mm)	D (mm)	N (mm)	W (mm)
4	0.56	3.88	5.00	0.31	0.75	14	99	127	8	19.1
4	0.68	4.75	6.00	0.34	0.81	17	121	152	9	20.6
4	0.75	5.50	7.28	0.44	1.00	19	140	185	11	25.4
4	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)



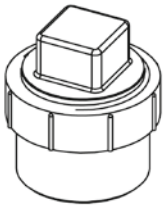
Size (inch)	DN (mm)	Electrofusion Code	Weight (lb)	Fast-Lock Code
1 ½	40	**373 167 301**	0.266	**377 167 301**
2	50	**373 167 302**	0.644	**377 167 302**
2 ½	65	**373 167 325**	1.068	**377 167 325**
3	80	**373 167 303**	1.228	**377 167 303**
4	100	**373 167 304**	0.861	**377 167 304**
6	150	**373 167 306**	2.650	

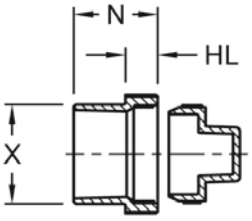


# holes	bout-gat dia. (needs to be deleted) (inch)	bolt cir. dia. (inch)	D (inch)	N (inch)	W (inch)	bolt hole dia. (mm)	bolt cir-cle dia. (mm)	D (mm)	N (mm)	W (mm)
4	0.75	4.30	5.90	0.31	0.75	19	109	150	8	19.1
4	0.75	4.90	6.50	0.34	0.81	19	125	165	9	20.6
4	0.75	5.70	7.30	0.44	1.00	19	145	185	11	25.4
8	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)

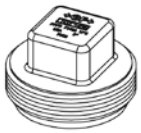


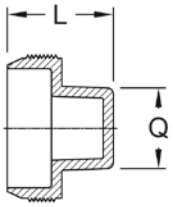


Size (inch)	DN (mm)	Code	Weight (lb)	HL (inch)	N (inch)	X (inch)	HL (mm)	N (mm)	X (mm)
1 ½	40	**373 177 001**	0.114	0.78	2.09	1.90	20	53	48
2	50	**373 177 002**	0.151	0.78	2.22	2.38	20	56	61
2 ½	65	**373 177 025**	0.290	0.93	2.37	2.88	24	60	73
3	80	**373 177 003**	0.488	1.09	2.66	3.50	28	68	89
4	100	**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)

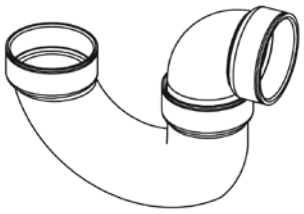
Только для ревизионного адаптера





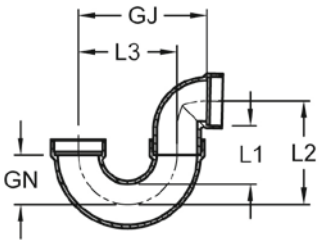
Size (inch)	Code	Weight (lb)	L (inch)	Q (inch)
1 ½	**373 170 501**	0.020	1.56	1.00
2	**373 170 502**	0.050	1.54	1.25
2 ½	**373 170 525**	0.080	1.94	1.56
3	**373 170 503**	0.130	2.03	1.63
4	**373 170 504**	0.220	2.16	2.00
6	**373 170 506**	0.570	2.38	2.38

P-Trap (SxS)



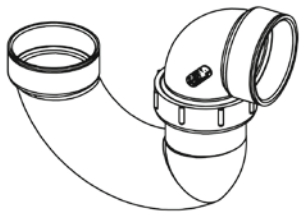
1-1/2" - 4" U-Bend Joint must be fused in the field

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



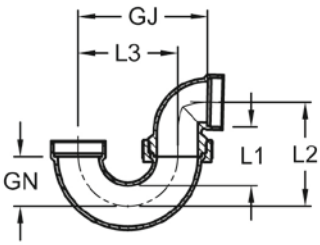
GJ (inch)	GN (inch)	L1 (inch)	L2 (inch)	L3 (inch)	GJ (mm)	GN (mm)	L1 (mm)	L2 (mm)	L3 (mm)
4.71	1.68	2.06	3.64	3.50	120	43	52	93	89
6.94	2.44	2.71	4.75	5.06	176	62	69	121	129
7.82	2.73	3.54	6.01	6.00	199	69	90	153	152
8.88	2.79	3.41	6.43	6.75	226	71	87	163	172
10.75	3.88	3.88	8.06	8.50	273	99	99	205	216

P-Trap with Union Connection (SxS)

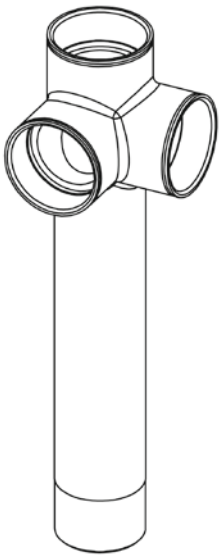


Size (inch)	DN (mm)	Electrofusion Code	Weight (lb)	Fast-Lock Code
1 ½	40	**373 172 101**	0.566	**377 172 101**

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

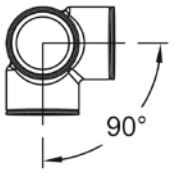


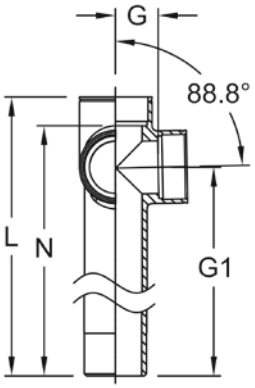
Double Branch Tee 90° Corner Connector Street (SxSxSxSPG)



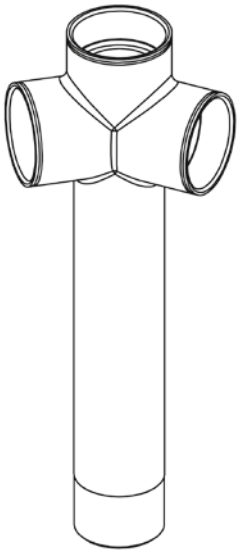
Inch (inch)	DN (mm)	Electrofusion Code	Быстрая фиксация Code	Weight (lb)
1 1/2 x 1 1/2	40 x 40	**373 162 201**	**377 162 201**	0.420
2 1/2 x 1 1/2	65 x 40	**373 162 228**	**377 162 228**	1.245

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



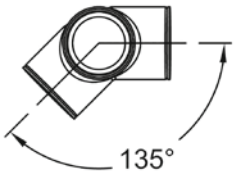


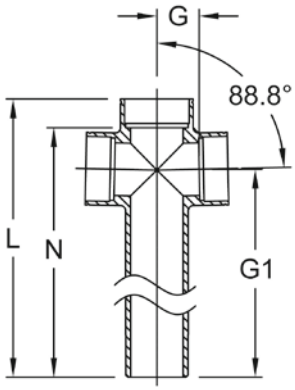
Double Branch Tee 135° Corner Connector Street (SxSxSxSPG)



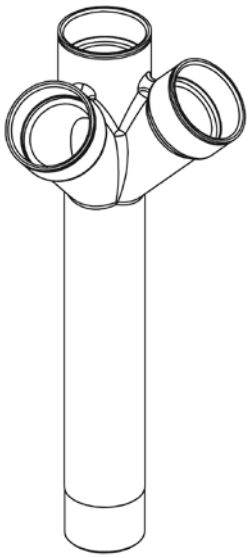
Inch (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	Weight (lb)
1 1/2 x 1 1/2	40 x 40	**373 162 301**	**377 162 301**	0.420
2 1/2 x 1 1/2	65 x 40	**373 162 328**	**377 162 328**	1.245

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



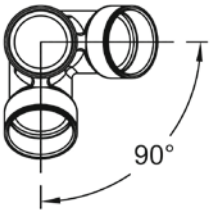


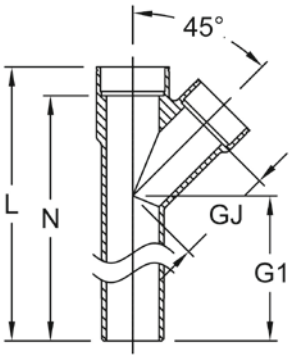
Double Branch Wye 90° Corner Connector Street (SxSxSxSPG)



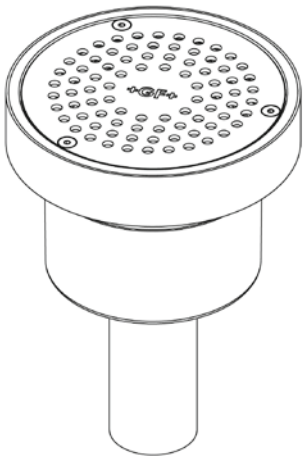
Inch (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	Weight (lb)
1 1/2 x 1 1/2	40 x 40	**373 162 401**	**377 162 401**	0.420
2 1/2 x 1 1/2	65 x 40	**373 162 428**	**377 162 428**	1.295

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



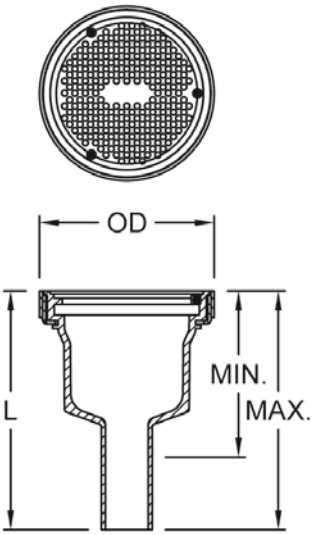


Drain Scupper (SPG) - Open Deck



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

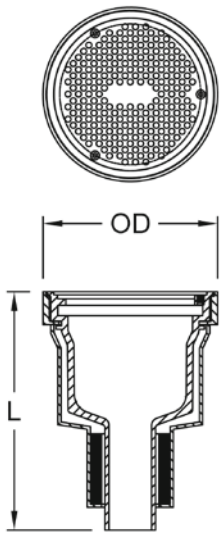
OD (inch)	L (inch)	Min. (inch)	Max. (inch)	OD (mm)	L (mm)	Min. (mm)	Max. (mm)
6.6	9.0	6.4	9.0	168	229	163	229
6.6	9.0	6.4	9.0	168	229	163	229



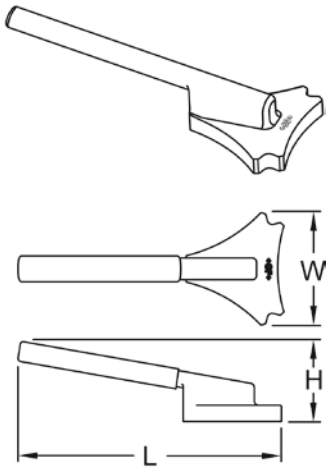
Drain Scupper (SPG) - Class A60



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

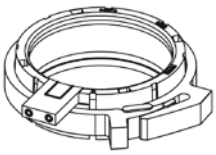


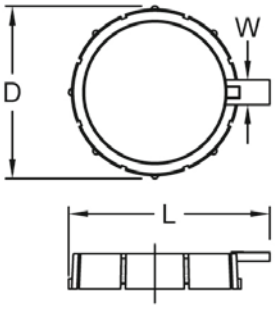
Description	Code	Weight (lb)	L (inch)	W (inch)	H (inch)	L (mm)	W (mm)	H (mm)
Drain Scupper Wrench (Aluminum)	**37Z004844**	1.410	12.18	5.20	3.62	309.4	132.1	91.9

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



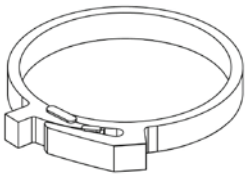


Fusion Locking Collar with Plastic Clamp

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



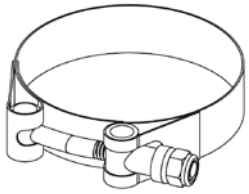
Size (inch)	Code	Weight (lb)
1 ½	**37A160601**	0.022
2	**37A160602**	0.033
3	**37A160603**	0.042
4	**37A160604**	0.110

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.

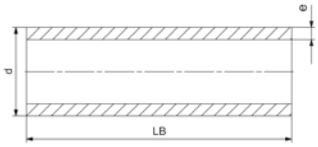
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Plastic Pipes

AQUASYSTEM Pipe PP-R PN16 SDR7.4 Aenor

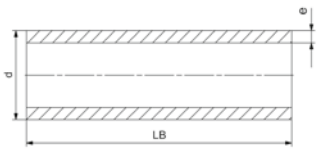




DN (mm)	Code	PN (bar)	SDR	d (mm)	e (mm)	LB (mm)
20	**4002002004121**	16	7.4	20	2.8	4000
25	**4002002504221**	16	7.4	25	3.5	4000
32	**4002003204321**	16	7.4	32	4.4	4000
40	**4002004004421**	16	7.4	40	5.5	4000
50	**4002005004521**	16	7.4	50	6.9	4000
63	**4002006304621**	16	7.4	63	8.6	4000
75	**4002007504721**	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



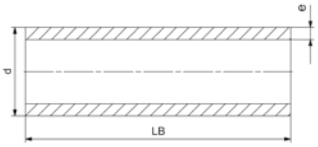


DN (mm)	Code	PN (bar)	SDR	d (mm)	e (mm)	LB (mm)
20	**4002002000421**	20	6	20	3.4	4000
25	**4002002500321**	20	6	25	4.2	4000
32	**4002003200421**	20	6	32	5.4	4000
40	**4002004000721**	20	6	40	6.7	4000
50	**4002005000821**	20	6	50	8.3	4000
63	**4002006300921**	20	6	63	10.5	4000
75	**4002007500921**	20	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

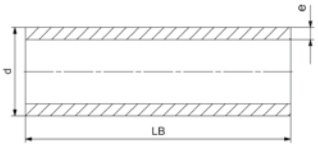




AQUASYSTEM Pipe PP-R PN16 SDR7.4

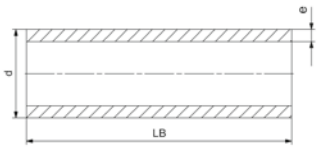
DN (mm)	Code	PN (bar)	SDR	d (mm)	e (mm)	LB (mm)
40	**4002004004321**	16	7.4	40	5.5	4000
63	**4002006304521**	16	7.4	63	8.6	4000
160	**4002016000921**	16	7.4	160	21.9	4000
200	**4002020001121**	16	7.4	200	27.4	4000





AQUASYSTEM Pipe PP-R PN20 SDR6



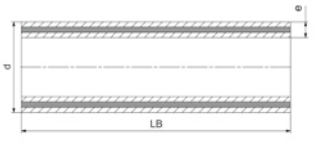


DN (mm)	Code	PN (bar)	SDR	d (mm)	e (mm)	LB (mm)
20	**4002002000121**	20	6	20	3.4	4000
25	**4002002500221**	20	6	25	4.2	4000
32	**4002003200321**	20	6	32	5.4	4000
40	**4002004000421**	20	6	40	6.7	4000
50	**4002005000521**	20	6	50	8.3	4000
63	**4002006300621**	20	6	63	10.5	4000
75	**4002007500721**	20	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

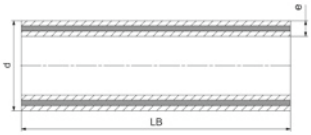




DN (mm)	Code	PN (bar)	SDR	d (mm)	e (mm)	LB (mm)
20	**4202002000221**	20	7.4	20	2.8	4000
25	**4202002500321**	20	7.4	25	3.5	4000
32	**4202003200421**	20	7.4	32	4.4	4000
40	**4202004000521**	20	7.4	40	5.5	4000
50	**4202005000621**	20	7.4	50	6.9	4000
63	**4202006300721**	20	7.4	63	8.6	4000
75	**4202007500821**	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

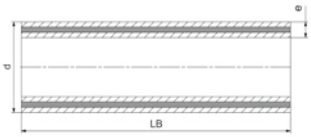




DN (mm)	Code	PN (bar)	SDR	d (mm)	e (mm)	LB (mm)
20	**4202002000121**	20	7.4	20	2.8	4000
25	**4202002500221**	20	7.4	25	3.5	4000
32	**4202003200321**	20	7.4	32	4.4	4000
40	**4202004000421**	20	7.4	40	5.5	4000
50	**4202005000521**	20	7.4	50	6.9	4000
63	**4202006300621**	20	7.4	63	8.6	4000
75	**4202007500721**	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





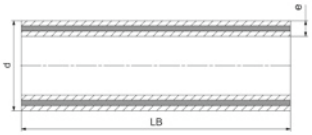
DN (mm)	Code	PN (bar)	SDR	d (mm)	e (mm)	LB (mm)
20	**4202002001021**	25	6	20	3.4	4000
25	**4202002501121**	25	6	25	4.2	4000
32	**4202003201221**	25	6	32	5.4	4000
40	**4202004000621**	25	6	40	6.7	4000
50	**4202005000721**	25	6	50	8.3	4000
63	**4202006300821**	25	6	63	10.5	4000
75	**4202007500921**	25	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.

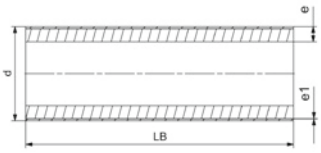




DN (mm)	Code	PN (bar)	SDR	d (mm)	e (mm)	LB (mm)
20	**4202002030021**	20	7,4	20	2.8	4000
25	**4202002530021**	20	7,4	25	3.5	4000
32	**4202003230121**	10	11	32	2.9	4000
40	**4202004030021**	10	11	40	3.7	4000
50	**4202005030021**	10	11	50	4.6	4000
63	**4202006330121**	10	11	63	5.8	4000
75	**4202007530021**	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

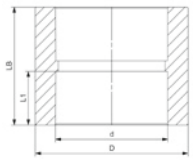




DN (mm)	Code	PN (bar)	SDR	d (mm)	e (mm)	e1 (mm)	LB (mm)
20	**4102002015021**	25	6	20	4.5	0.15	4000
25	**4102002515021**	25	6	25	5.3	0.15	4000
32	**4102003215021**	25	6	32	6.5	0.15	4000
40	**4102004015021**	25	6	40	7.8	0.15	4000
50	**4102005015021**	25	6	50	9.4	0.15	4000
63	**4102006315021**	25	6	63	11.6	0.15	4000

Fittings
Couplers and Sockets

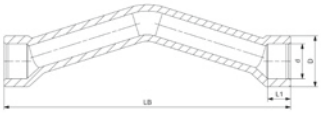




AQUASYSTEM Socket PP-R

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

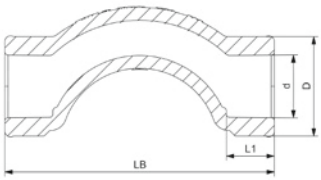




AQUASYSTEM Crossover With Socket PP-R

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

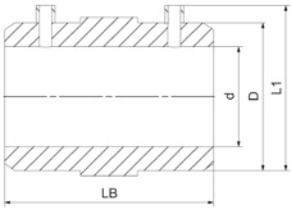




AQUASYSTEM Short Crossover With Socket PP-R

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

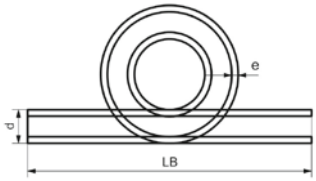




AQUASYSTEM Electrofusion Coupler PP-R

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

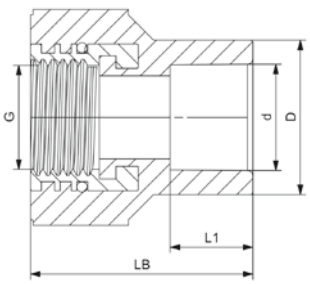




AQUASYSTEM Omega PP-R

Dimensions table is empty, please add data.



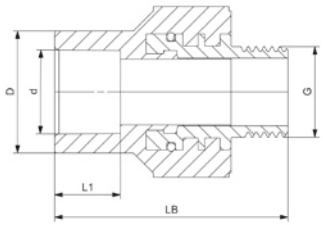


AQUASYSTEM Female Socket (Round) BSPP-G PP-R

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

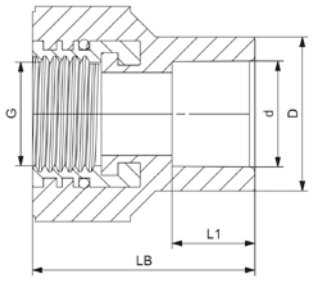




Dim. (mm)	G (inch)	Code	PN (bar)	D (mm)	d (mm)	L1 (mm)	LB (mm)
20	½	**4302702032921**	25	27.9	19.2	15.0	53.3
20	¾	**4302702032121**	25	28.0	19.2	18.5	56.5
25	½	**4302702532921**	25	33.0	24.3	17.0	53.3
25	¾	**4302702532321**	25	33.0	24.2	16.5	52.0
32	¾	**4302703227421**	25	43.5	31.1	18.5	59.5
32	1	**4302703232421**	25	43.5	31.1	18.5	60.5

AQUASYSTEM Female Socket (Round) BSPT-Rp PP-R

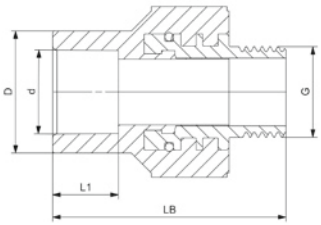




Dim. (mm)	G (inch)	Code	PN (bar)	D (mm)	d (mm)	L1 (mm)	LB (mm)
20	½	**4302702040021**	25	27.9	19.2	15.0	40.3
20	¾	**4302702040121**	25	28.0	19.2	18.5	42.5
25	½	**4302702540021**	25	33.0	24.2	17.0	40.3
25	¾	**4302702540121**	25	33.0	24.2	16.5	38.0
32	¾	**4302703240021**	25	43.5	31.1	18.5	45.5
32	1	**4302703240221**	25	43.5	31.1	18.5	45.5

AQUASYSTEM Male Socket (Round) BSPT-R PP-R

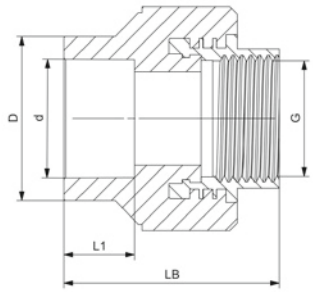




Dim. (mm)	G (inch)	Code	D (mm)	d (mm)	L1 (mm)	LB (mm)	PN (bar)
20	½	**4302702040921**	27.9	19.2	15.0	55.8	25
20	¾	**4302702040321**	28.0	19.2	18.5	59.0	25
25	½	**4302702540921**	33.0	24.3	17.0	55.8	25
25	¾	**4302702540321**	33.0	24.2	16.5	54.5	25
32	¾	**4302703240121**	43.5	31.1	18.5	62.0	25
32	1	**4302703240321**	43.5	31.1	18.5	63.5	25

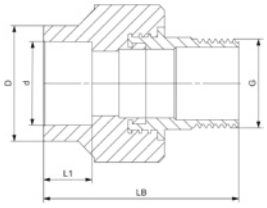
AQUASYSTEM Female Socket (Hexagon) BSPP-G PP-R





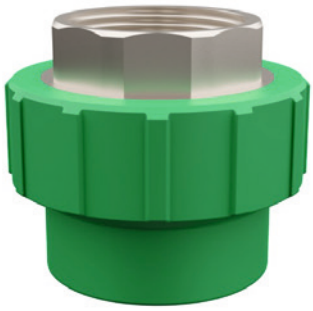
Dim. (mm)	G (inch)	Code	PN (bar)	D (mm)	d (mm)	L1 (mm)	LB (mm)
32	1	**4302703227021**	25	43.0	31.1	18.5	56.5
40	1 ¼	**4302704025121**	25	52.8	39.3	21.1	58.5
50	1 ½	**4302705025221**	25	65.0	48.9	26.0	62.5
63	2	**4302706325321**	25	82.5	62.0	28.0	75.8
75	2 ½	**4302707525421**	25	101.2	74.3	31.0	80.0
90	3	**4302709028421**	25	119.0	88.8	35.8	98.0
110	4	**4302711025521**	25	147.0	108.9	43.0	99.3

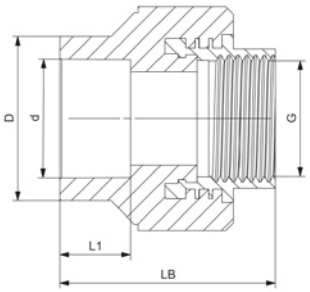




AQUASYSTEM Male Socket (Hexagon) BSPP-G PP-R

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

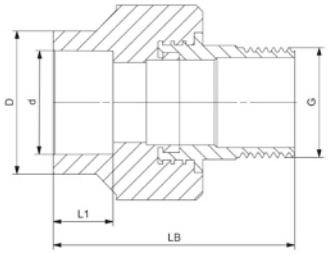




AQUASYSTEM Female Socket (Hexagon) BSPT-Rp PP-R

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



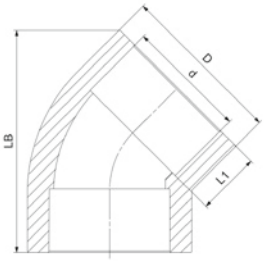


AQUASYSTEM Male Socket (Hexagon) BSPT-R PP-R

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



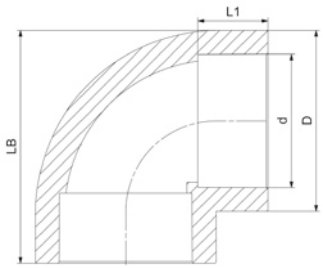


AQUASYSTEM Elbow 45° PP-R

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



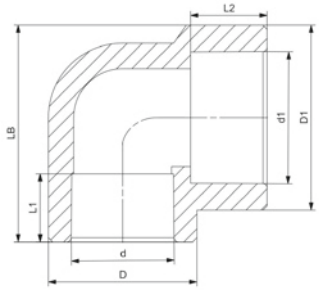


AQUASYSTEM Elbow 90° PP-R

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

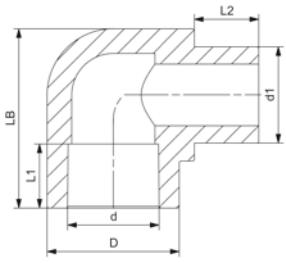




AQUASYSTEM Reducing Elbow PP-R

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

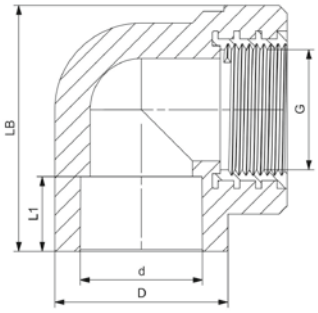




AQUASYSTEM Elbow 90° Male-Female PP-R

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

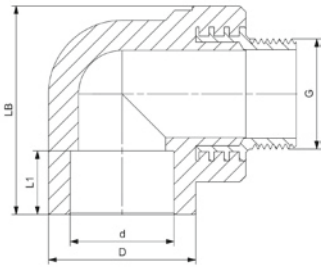




AQUASYSTEM Female Elbow BSPP-G PP-R

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

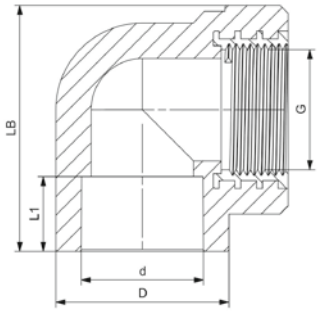




AQUASYSTEM Male Elbow BSPP-G PP-R

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

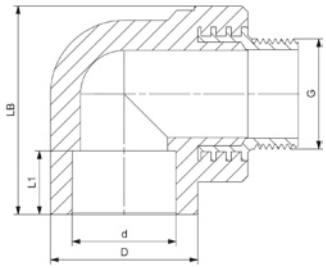




AQUASYSTEM Female Elbow BSPT-Rp PP-R

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

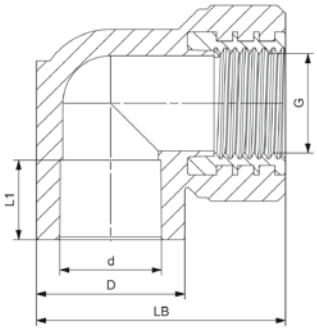




AQUASYSTEM Male Elbow BSPT-R PP-R

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

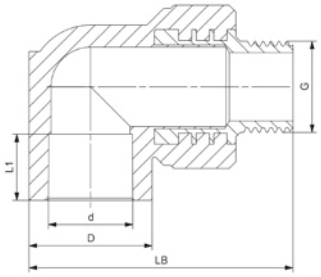




AQUASYSTEM Female Backplate Elbow Type 2 BSPP-G PP-R

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

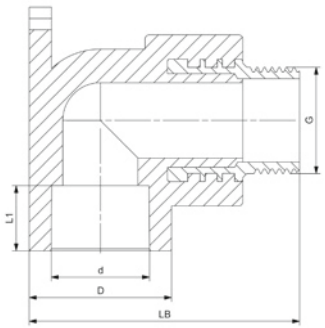




AQUASYSTEM Male Backplate Elbow Type 2 BSPP-G PP-R

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





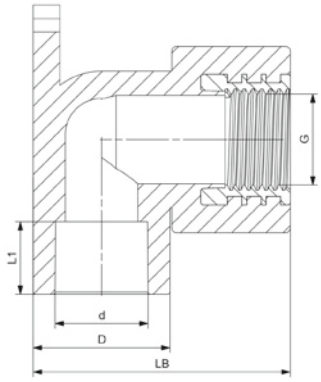
AQUASYSTEM Male Backplate Elbow Type 3 BSPP-G PP-R

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

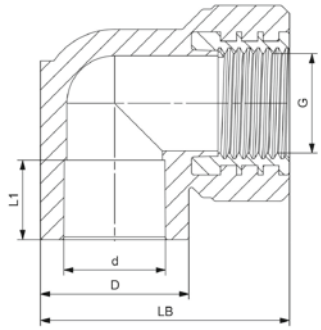
Dim. (mm)	G (inch)	Code	PN (bar)	D (mm)	d (mm)	L1 (mm)	LB (mm)
20	¾	**4302102008121**	25	28.2	19.2	15.0	53.1
25	½	**4302102508221**	25	35.0	24.2	16.5	54.0
25	¾	**4302102508321**	25	35.0	24.2	16.5	54.0





AQUASYSTEM Female Backplate Elbow Type 2 BSPT-Rp PP-R

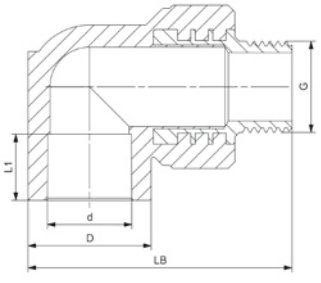
Dim. (mm)	G (inch)	Code	PN (bar)	D (mm)	d (mm)	L1 (mm)	LB (mm)
20	½	**4302902030721**	25	28.0	19.2	15.0	47.0





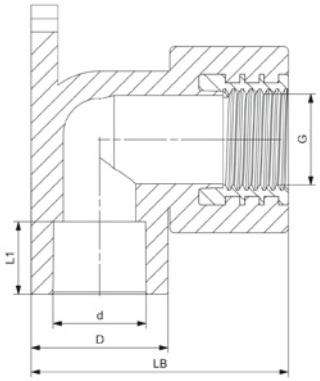
AQUASYSTEM Male Backplate Elbow Type 2 BSPT-R PP-R

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

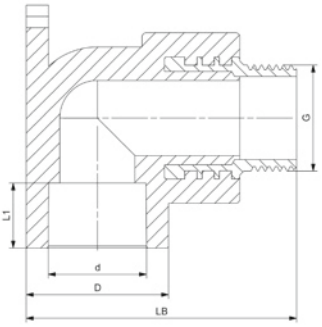




Dim. (mm)	G (inch)	Code	PN (bar)	D (mm)	d (mm)	L1 (mm)	LB (mm)
20	¾	**4302102030421**	25	28.2	19.2	15.0	53.1
25	½	**4302102530421**	25	35.0	24.2	16.5	54.0
25	¾	**4302102530521**	25	35.0	24.2	16.5	54.0

AQUASYSTEM Male Backplate Elbow Type 3 BSPT-R PP-R

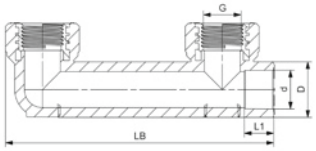




Dim. (mm)	G (inch)	Code	PN (bar)	D (mm)	d (mm)	L1 (mm)	LB (mm)
25	¾	**4302102530621**	25	35.0	24.2	16.0	66.5

AQUASYSTEM Female Backplate Elbow 2 Pins Bidet BSPP-G PP-R



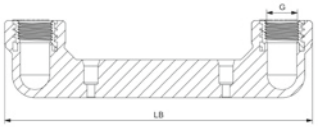


Dim. (mm)	G (inch)	Code	PN (bar)	D (mm)	d (mm)	L1 (mm)	LB (mm)
20	½	**4302902012321**	25	27.8	19.2	14.5	134.2

AQUASYSTEM Female Backplate Elbow 2 Pins BSPP-G PP-R





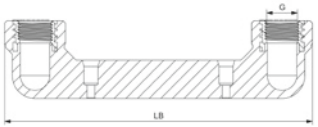


Dim. (mm)	G (inch)	Code	PN (bar)	D (mm)	d (mm)	L1 (mm)	LB (mm)
20	½	**4302902011021**	25	27.8	19.2	14.5	187.0
25	½	**4302902503121**	25	33.3	24.2	16.0	187.0

AQUASYSTEM Female Backplate Elbow 2 Pins BSPT-Rp PP-R



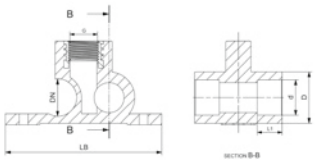




Dim. (mm)	G (inch)	Code	PN (bar)	D (mm)	d (mm)	L1 (mm)	LB (mm)
20	½	**4302902011221**	25	27.8	19.2	14.5	187.0

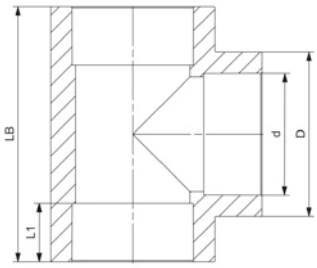
AQUASYSTEM Backplate Elbow (Double) BSPP-G PP-R





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



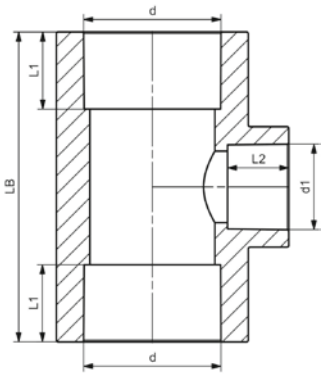


AQUASYSTEM Tee PP-R

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



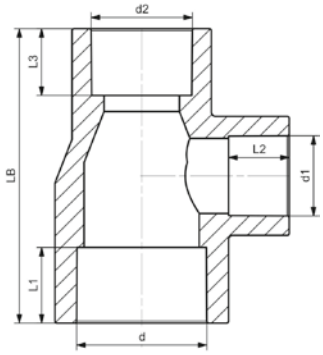


AQUASYSTEM Reducing Tee PP-R

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

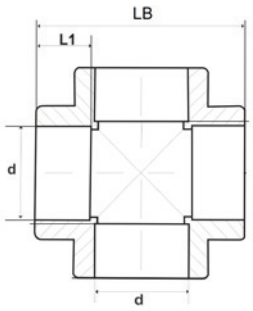




Dim. (mm)	Code	PN (bar)	d (mm)	d1 (mm)	d2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	LB (mm)
25-20-20	**4302902520021**	25	24.2	19.2	19.2	16.0	14.5	14.5	57.0
32-20-20	**4302903220221**	25	31.1	19.2	19.2	18.1	14.5	14.5	69.0
32-20-25	**4302903220321**	25	31.1	19.2	24.2	18.1	14.5	16.0	70.5
32-25-20	**4302903220521**	25	31.1	24.2	19.2	18.1	16.0	14.5	69.0

AQUASYSTEM Cross PP-R

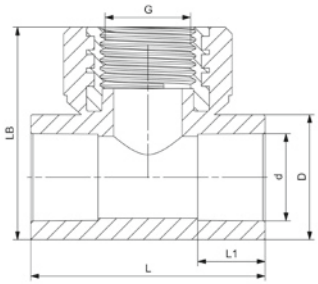




Dim. (mm)	Code	PN (bar)	d (mm)	L1 (mm)	LB (mm)
20	**4302902060022**	25	19.2	16.0	56.0
25	**4302902560122**	25	24.2	20.0	70.0
32	**4302903260222**	25	31.1	20.0	80.0
40	**4302904060322**	25	39.0	20.6	84.5

AQUASYSTEM Tee Female BSPP-G PP-R

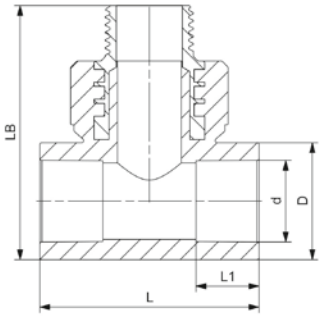




Dim. (mm)	G (inch)	Code	PN (bar)	D (mm)	d (mm)	L1 (mm)	L (mm)	LB (mm)
20	½	**4302902010021**	25	27.5	19.2	14.8	51.5	46.8
20	¾	**4302902010121**	25	29.8	19.2	14.8	59.0	50.9
25	½	**4302902510221**	25	33.0	24.2	16.0	59.0	54.5
25	¾	**4302902510321**	25	33.0	24.2	16.0	59.0	54.5
32	¾	**4302903210421**	25	42.0	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

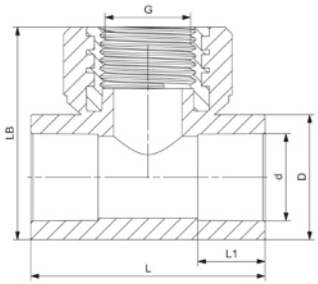




Dim. (mm)	G (inch)	Code	PN (bar)	D (mm)	d (mm)	L1 (mm)	L (mm)	LB (mm)
20	½	**4302902012021**	25	27.5	19.2	14.8	51.5	59.8

AQUASYSTEM Tee Female BSPT-Rp PP-R



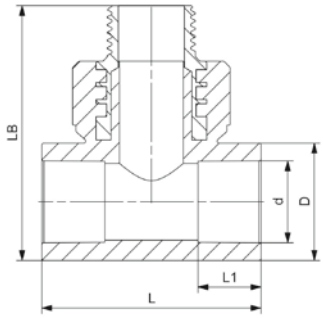


Dim. (mm)	G (inch)	Code	PN (bar)	D (mm)	d (mm)	L1 (mm)	L (mm)	LB (mm)
20	½	**4302902030021**	25	27.5	19.2	14.8	51.5	46.8
20	¾	**4302902030121**	25	29.8	19.2	14.8	59.0	50.9
25	½	**4302902530021**	25	33.0	24.2	16.0	59.0	54.5
25	¾	**4302902530121**	25	33.0	24.2	16.0	59.0	54.5
32	¾	**4302903230021**	25	42.0	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

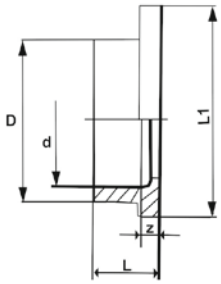


Adaptors and Transitions



AQUASYSTEM Flange Adaptor PP-R

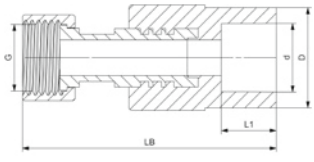
Remarks	Dim. (mm)	Code	PN (bar)	D (mm)	L (mm)	L1 (mm)	Z (mm)
	25	**4302902533022**	10	33.0	23.0	41.0	5.0
	32	**4302903233022**	10	41.0	25.0	50.0	5.0
	40	**4302904033022**	10	50.0	27.0	61.0	5.0
	50	**4302905033022**	10	61.0	33.0	74.0	8.0
	63	**4302906333022**	10	76.0	37.0	91.0	8.0
	75	**4302907533022**	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

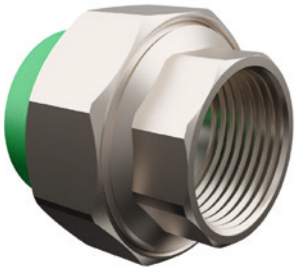


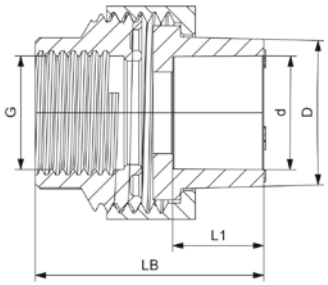


AQUASYSTEM Transition With Loose Nut BSPP-G PP-R

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

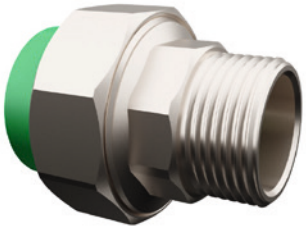


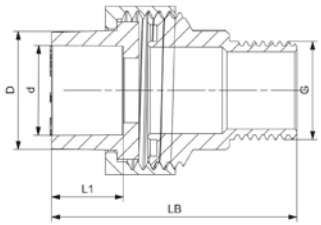




AQUASYSTEM Transition Joint Hexagonal Female BSPP-G PP-R

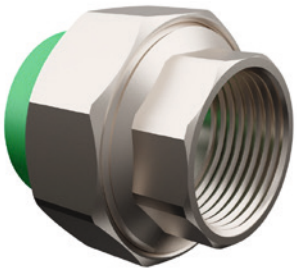
Dim. (mm)	G (inch)	Code	PN (bar)	D (mm)	d (mm)	L1 (mm)	LB (mm)
20	½	**4302702003021**	25	25.2	19.2	15.4	38.6
20	¾	**4302902003121**	25	25.2	19.2	15.4	41.1
25	¾	**4302702503121**	25	32.8	24.3	18.5	44.1
32	1	**4302703203521**	25	39.9	31.2	20.5	50.1
40	1 ¼	**4302904005021**	25	49.7	39.0	23.9	58.7
50	1 ½	**4302905005121**	25	57.9	48.9	24.0	58.9
63	2	**4302906305221**	25	73.6	61.9	27.5	66.1

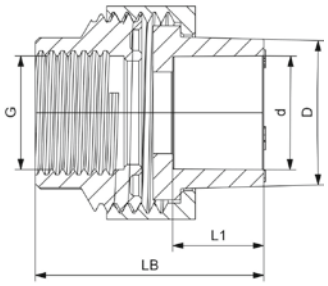




AQUASYSTEM Transition Joint Hexagonal Male BSPP-G PP-R

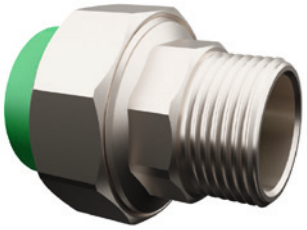
Dim. (mm)	G (inch)	Code	PN (bar)	D (mm)	d (mm)	L1 (mm)	LB (mm)
20	¾	**4302902004121**	25	25.2	19.2	15.4	56.1
25	¾	**4302702504321**	25	32.8	24.3	18.5	59.1
32	1	**4302703204521**	25	39.9	31.2	20.5	65.1
40	1 ¼	**4302904005321**	25	49.7	39.0	23.9	76.5

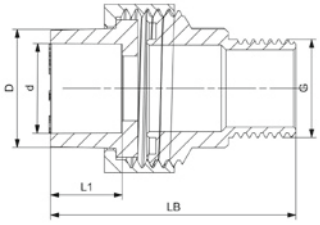




AQUASYSTEM Transition Joint Hexagonal Female BSPT-Rp PP-R

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



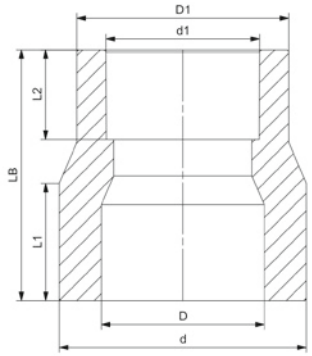


AQUASYSTEM Transition Joint Hexagonal Male BSPT-R PP-R

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





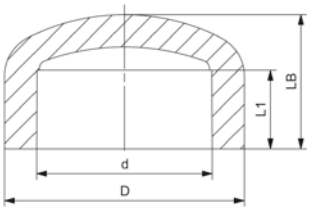
AQUASYSTEM Reducer PP-R

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

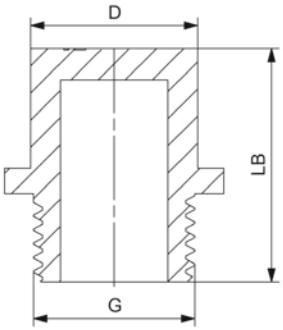




AQUASYSTEM End Cap PP-R

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



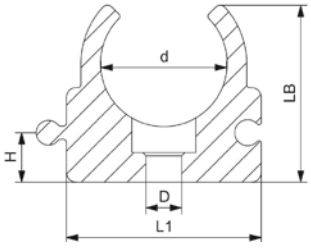


AQUASYSTEM Blind Cap PP-R

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



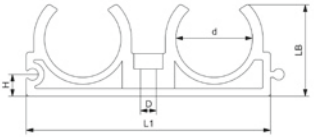


AQUASYSTEM Single Clamp PP-R

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



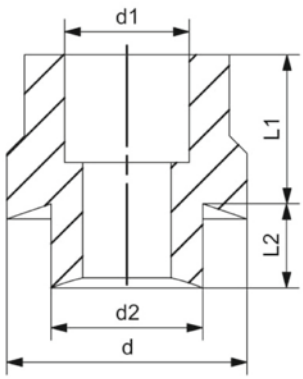


AQUASYSTEM Double Clamp PP-R

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

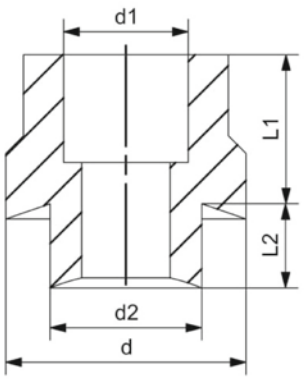




AQUASYSTEM Saddle With Spigot PP-R

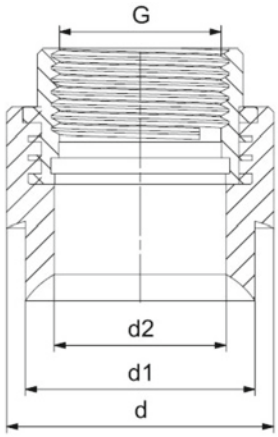
d - d1 (mm)	Code	PN (bar)	L1 (mm)	d2 (mm)	L2 (mm)
40 - 20	**4302904090022**	25	20.0	22.0	7.0
40 - 25	**4302904090122**	25	27.0	22.0	7.0
50 - 20	**4302905090022**	25	20.0	22.0	8.0
50 - 25	**4302905090122**	25	27.0	22.0	8.0
63 - 20	**4302906390022**	25	20.0	22.0	10.0
63 - 25	**4302906390122**	25	27.0	22.0	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



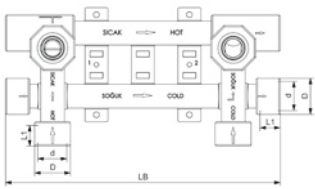


AQUASYSTEM Saddle With Spigot Female BSPP-G PP-R

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





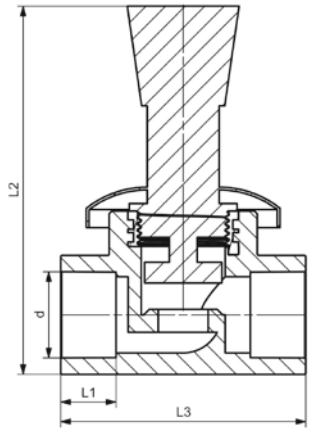
AQUASYSTEM Distribution Manifold 6 Ported BSPP-G PP-R

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



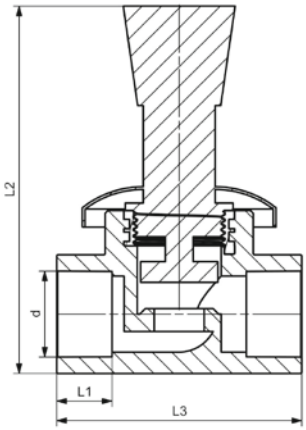
Dim. (mm)	G (inch)	Code	PN (bar)	d (mm)	L1 (mm)	L2 (mm)	L3 (mm)
20	½	**4302802040221**	20	20	16.0	115.0	68.0
25	¾	**4302802540421**	20	25	19.0	124.0	78.0
32	1	**4302803240621**	20	32	20.0	135.0	88.0



AQUASYSTEM Chromium Valve Long PP-R



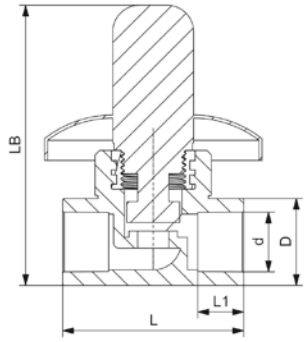
Dim. (mm)	G (inch)	Code	PN (bar)	d (mm)	L1 (mm)	L2 (mm)	L3 (mm)
20	½	**4302802040121**	20	20	16.0	115.0	68.0
25	¾	**4302802540321**	20	25	19.0	125.0	78.0
32	1	**4302803240521**	20	32	20.0	135.0	88.0

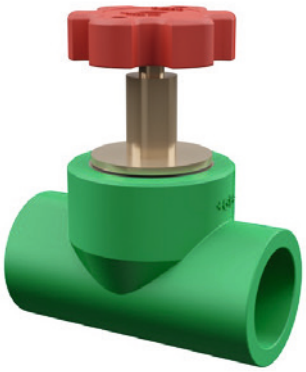


AQUASYSTEM Chromium Valve Short PP-R



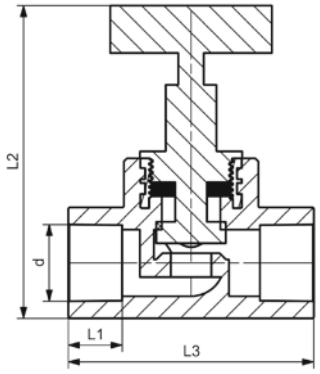
Dim. (mm)	G (inch)	Code	PN (bar)	d (mm)	D (mm)	L1 (mm)	L (mm)	LB (mm)
20	½	**4302802040021**	20	19.2	28.0	14.8	59.2	90.2
25	¾	**4302802540221**	20	24.2	35.0	17.0	77.5	96.8
32	1	**4302803240421**	20	31.1	43.0	20.0	88.0	103.0





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

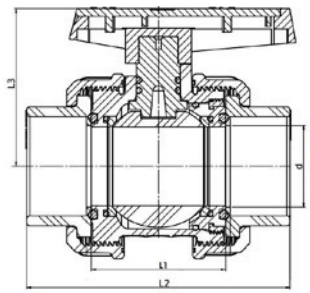


AQUASYSTEM Special Ball Valve (Union) PP-R

Attention:

- PN10 cold water applications only.

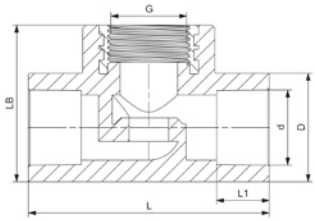
	Dim. (mm)	Code	PN (bar)	d (mm)	L1 (mm)	L2 (mm)	L3 (mm)
*	20	**4302802042522**	10	20	45.0	83.0	48.0
*	25	**4302802542622**	10	25	51.0	95.0	55.0
*	32	**4302803242722**	10	32	55.0	105.0	65.0
*	40	**4302804043122**	10	40	64.0	122.0	76.0
*	50	**4302805043222**	10	50	75.0	143.0	87.0
*	63	**4302806343322**	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

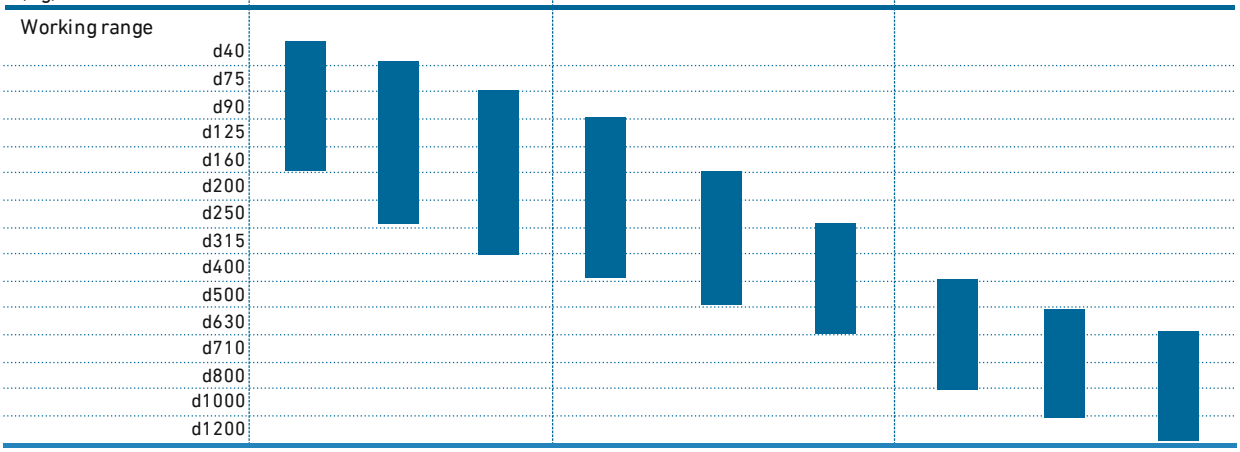
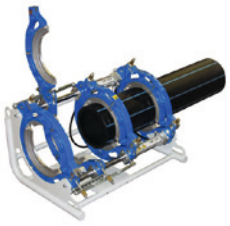


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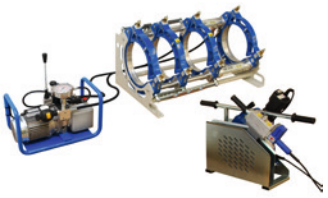


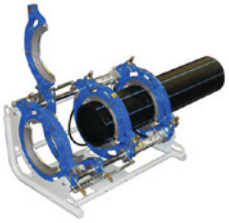
TOP 2.0 160 - 250 - 315
Butt fusion machine for construction site

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

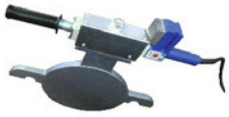
Type	d-d (mm)	Performance	Code	Weight (kg)
TOP 2.0 160	40 - 160	230 V/1900 W	**790 150 011**	126.000
TOP 2.0 250	75 - 250	230 V/3270 W	**790 151 011**	191.000
TOP 2.0 315	90 - 315	230 V/3870 W	**790 152 026**	206.000
TOP 2.0 160, Swiss plug	40 - 160	230 V/1900 W	**790 150 060**	126.000
TOP 2.0 250, Swiss 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













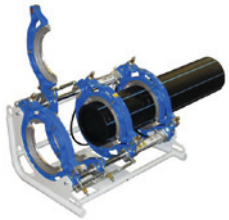
ECOS 160 - 250 - 315
Butt fusion machine for construction site

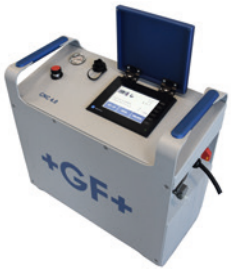
Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.
Hydraulically operated with manual control unit.
Temperature controller integrated in the heating element handle.
Including transport packaging (carton pallet); reduction clamping 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











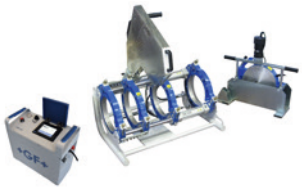


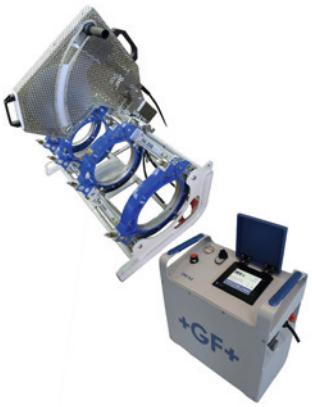
CNC 4.0 160 - 250 - 315
Automatic butt fusion machine for construction site

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

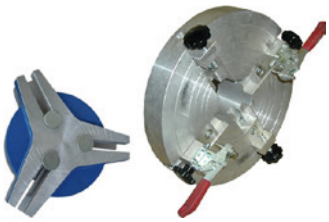
d-d (mm)	Code	Weight (kg)
40 - 140	**790 114 156**	17.000
75 - 225	**790 115 156**	63.000
90 - 280	**790 112 156**	78.000



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

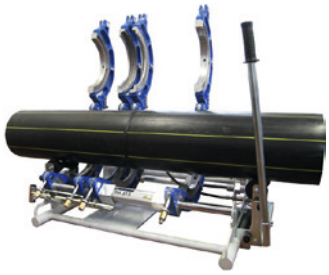
Type	Left Code	Right Code	Weight (kg)
Type 160	**790 150 205**	**790 150 206**	0.800
Type 250	**790 151 205**	**790 151 206**	1.850
Type 315	**790 152 205**	**790 152 206**	2.681



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

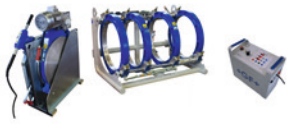


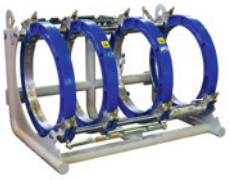
Label printer cable for CNC machines

- 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

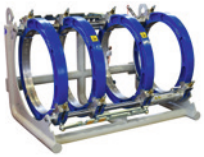
Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.
Hydraulically operated with manual control unit.
TOP hydraulic unit with integrated control panel and power outlets.
Including transport packaging (wooden crate); reduction clamping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













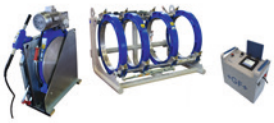


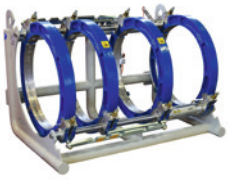
ECOS 400 - 500 - 630
Butt fusion machine for construction site

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

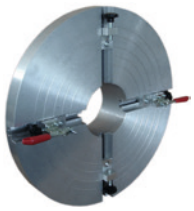
d-d (mm)	Code	Weight (kg)
125 - 355	**790 127 156**	95.000
200 - 450	**790 116 157**	241.000
250 - 450	**790 116 156**	165.000
315 - 560	**790 117 021**	201.000



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.

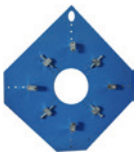
d (mm)	narrow Code	Weight (kg)	wide Code	Weight (kg)
710	**790 125 030**	9.000	**790 125 028**	12.500
800			**790 124 011**	18.000
900			**790 124 012**	19.000
1000			**790 125 011**	20.000



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





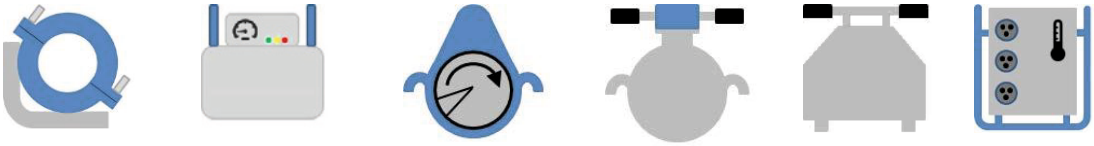
IPS Nominal pipe diameter	Machine size								
	160	250	315	400	500	630	800*	1000*	1200*
1 ½"									
2"									
2 ½"									
3"									
4"									
5"									
6"									
8"									
10"									
12"									
13"									
14"									
16"									
18"									
20"									
22"									
24"									
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

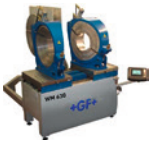
Description	Code
Fit for Service NDT - Daily Rate	**700 900 104**
Fit for Service NDT - Expense Unit Rate	**700 900 108**

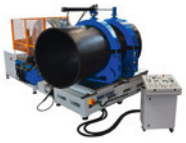
Utility Range

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

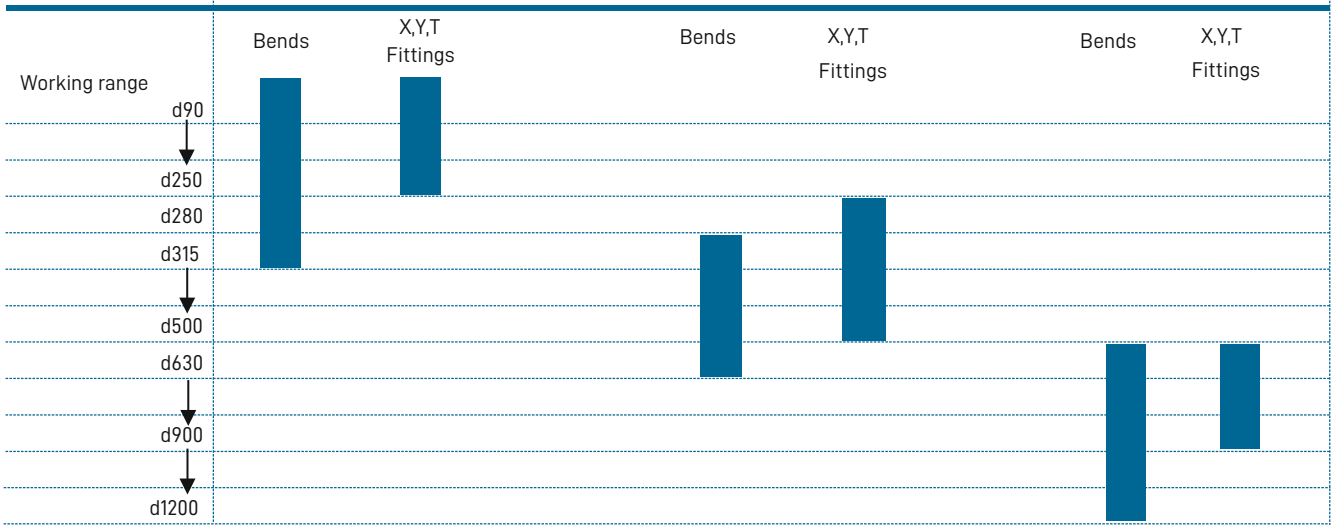
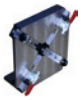
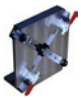


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	WM 1200 Accessories	604



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

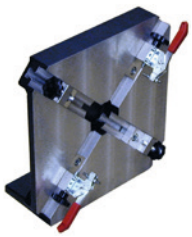


WM 315 CNC 4.0
Automatic workshop butt fusion machine

- 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

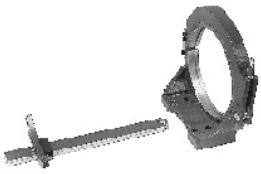
WM 315 Accessories



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.

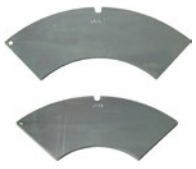
d (mm)	Code	Weight (kg)
90	**790 112 098**	1.265
110	**790 112 099**	1.220
125	**790 112 100**	1.215
140	**790 112 101**	1.139
160	**790 112 102**	1.080
180	**790 112 103**	1.006
200	**790 112 104**	0.945
225	**790 112 105**	0.833
250	**790 112 106**	0.712
280	**790 112 107**	0.562



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

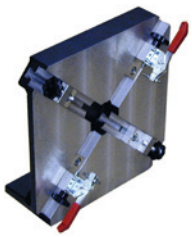


WM 630 CNC 4.0
Automatic workshop butt fusion machine

- 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

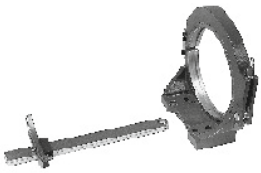
WM 630 Accessories



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

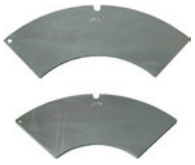


Reduction clamping inserts, wide

- 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

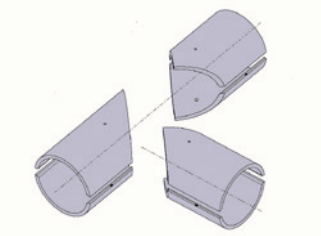
d-d (mm)	Code	Weight (kg)
315 - 560	**790 108 009**	16.000



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

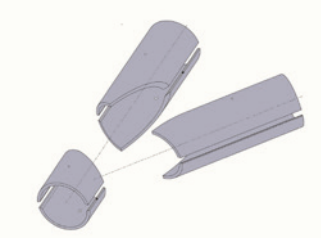
d (mm)	Code	Weight (kg)
280	**790 108 359**	49.300



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

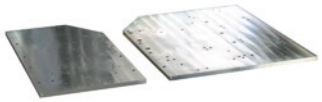
d-d (mm)	Code	Weight (kg)
630 - 900	**790 126 012**	5500.000



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

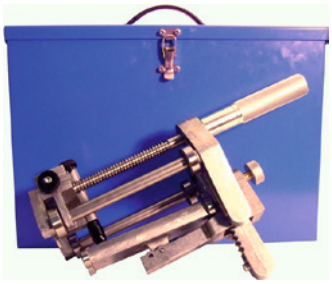
d (mm)	d1 (mm)	Code	Weight (kg)	L (mm)	W (mm)	H (mm)
180	400	**799 300 365**	13.00	665	562	250



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





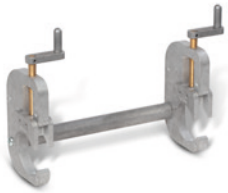






Working range (cm)	Multi Clamp	Twin Clamp	Double & Quadruple Clamp	Double & Quadruple Clamp with Link	Swivel Clamp	Clamping Device Topload 400	Clamping Device Topload 630	Installation Set Topload TL225	Installation Set Topload TL500
20									
25									
32									
40									
50									
63									
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





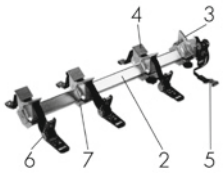
Clamping tool
Quadruple, multi size

- 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

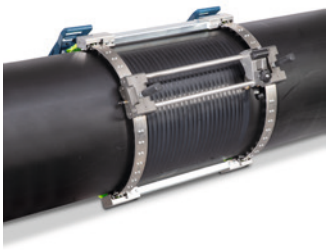


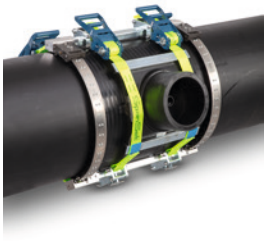
ELGEF Plus Clamping attachment topload 630

- 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

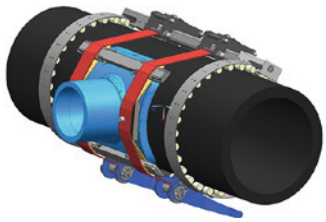


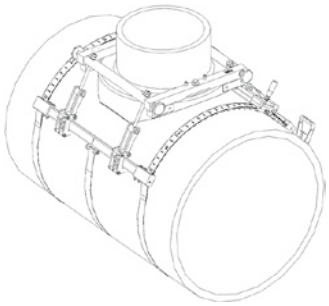


- Suitable for branch saddle d315-1000mm with spigot outlet d160/d225
- Use of set is mandatory for the installation of branch saddles
- Set includes frame with tension belts, peeling tool, clamp and transport box
- Patent pending

Code	Weight (kg)
799 300 807	48.000

ELGEF Plus Installation set topload TL 500



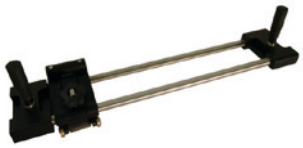


- Suitable for ELGEF Plus branch saddle d450-2000mm with spigot outlet d315 and d500
- Use of set is mandatory for the installation of branch saddles
- Set includes frame with tension belts, peeling tool, clamp for outlet d315mm/500mm and transport box
- Patent pending

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

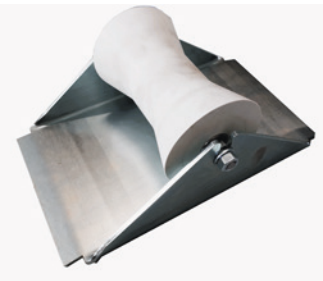
Measuring tape (circumference and diameter)



- 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					

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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

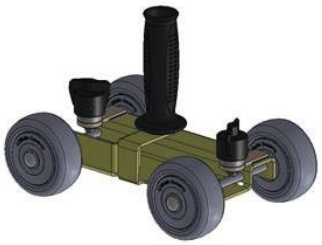
Code	Weight (kg)	L (mm)	B (mm)	H (mm)
799 198 153	5.20	665	562	250



Tensioning belt B=25mm L=3.5m

- Spare and wear parts Plastic pipe cutter PEcut 1200

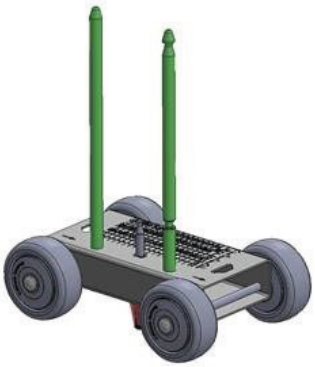
Code	Weight (kg)	L (mm)	B (mm)	H (mm)
799 198 154	0.75	150	70	80



Roller wagon

- Spare and wear parts Plastic pipe cutter PEcut 1200

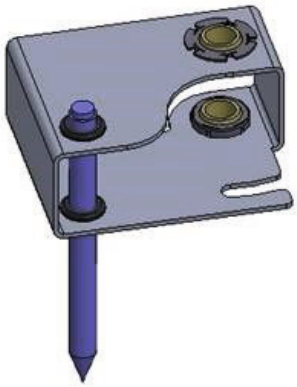
Code	Weight (kg)	L (mm)	B (mm)	H (mm)
799 198 156	1.90	260	180	200



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

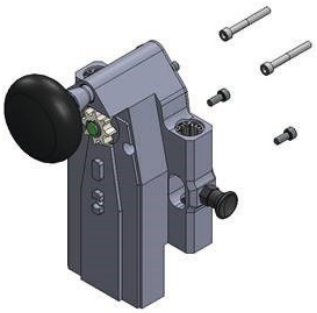
Code	Weight (kg)	L (mm)	B (mm)	H (mm)
799 198 163	1.00	125	85	75



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





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

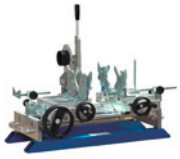
- Connecting thread for pressure test is female thread G 3/8"
- **Overview of Tapping Adapter types and Pressure Test Cap**
- M For Monobloc d40 and d50 (outlets d20 - d32)
- S 54 For all saddles with rotatable outlet (outlets d20 - d40) i.e. Tapping Tee d20 - d40.
- S 67 For all saddles with rotatable 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

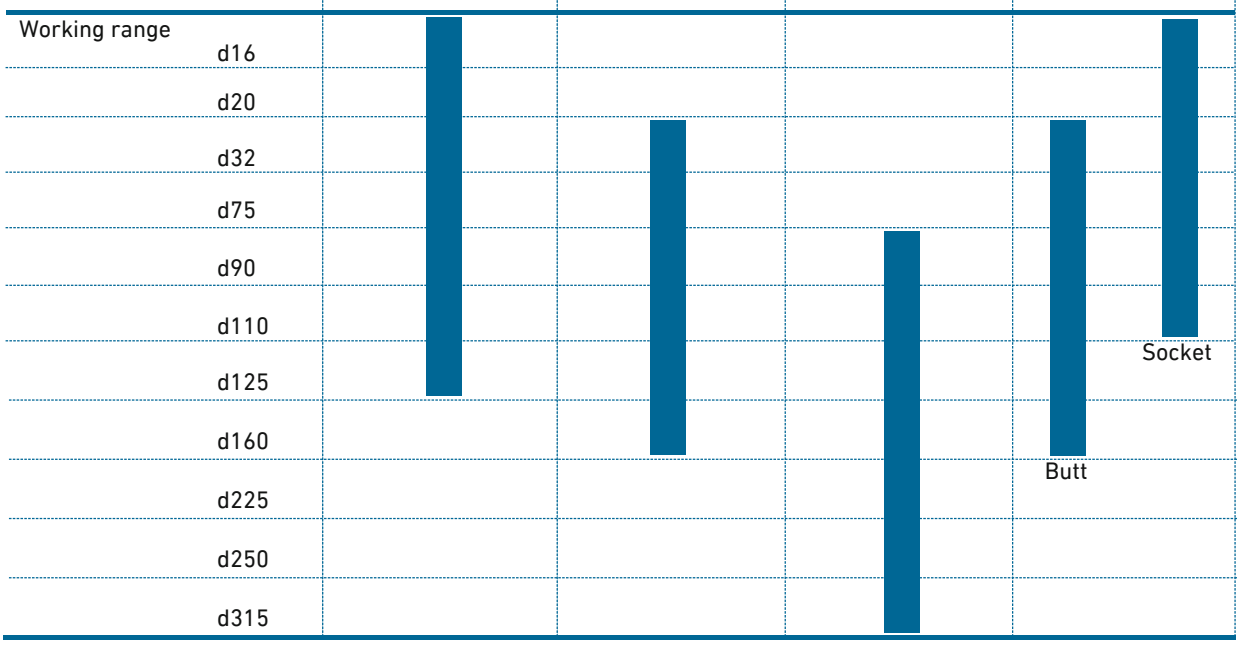
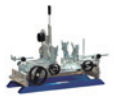


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SG 125

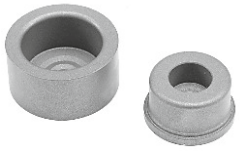


SG 125
Socket fusion machine

- 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

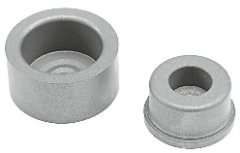
SG 125 Accessories



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

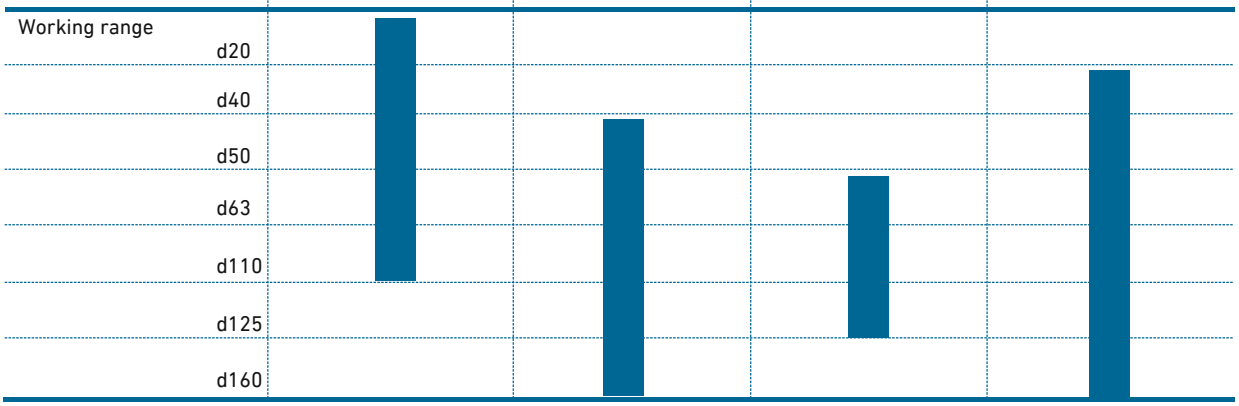


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	MC 110 Accessories	651
	MD 160/JIG 125	652
	PSO 701	654





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

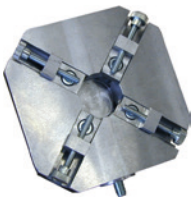
d-d (mm)	wide Code	Weight (kg)	narrow Code	Weight (kg)
20 - 90	**790 300 019**	4.532	**790 300 029**	3.478



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

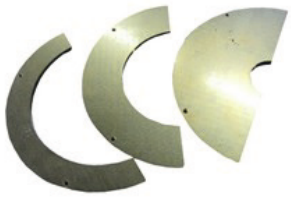
- For jointing PE, PP pipes and fittings in the dimensional range d 63 – 125 mm
- Light and sturdy base machine (10.3 kg weight with clamping units) specifically designed for direct use on the installed pipeline
- Prismatic clamping units, specifically designed for pipes (double clamp) and fittings (single 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

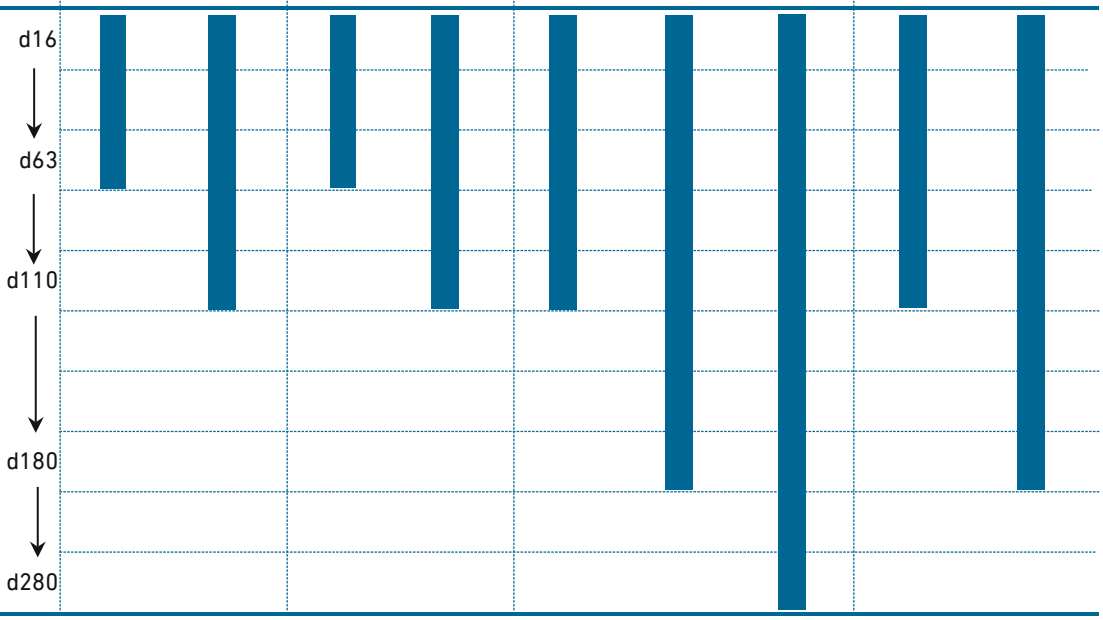
Product Range Overview






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

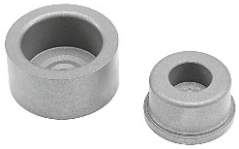
- Specifically designed for placing the heater on a working bench

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.

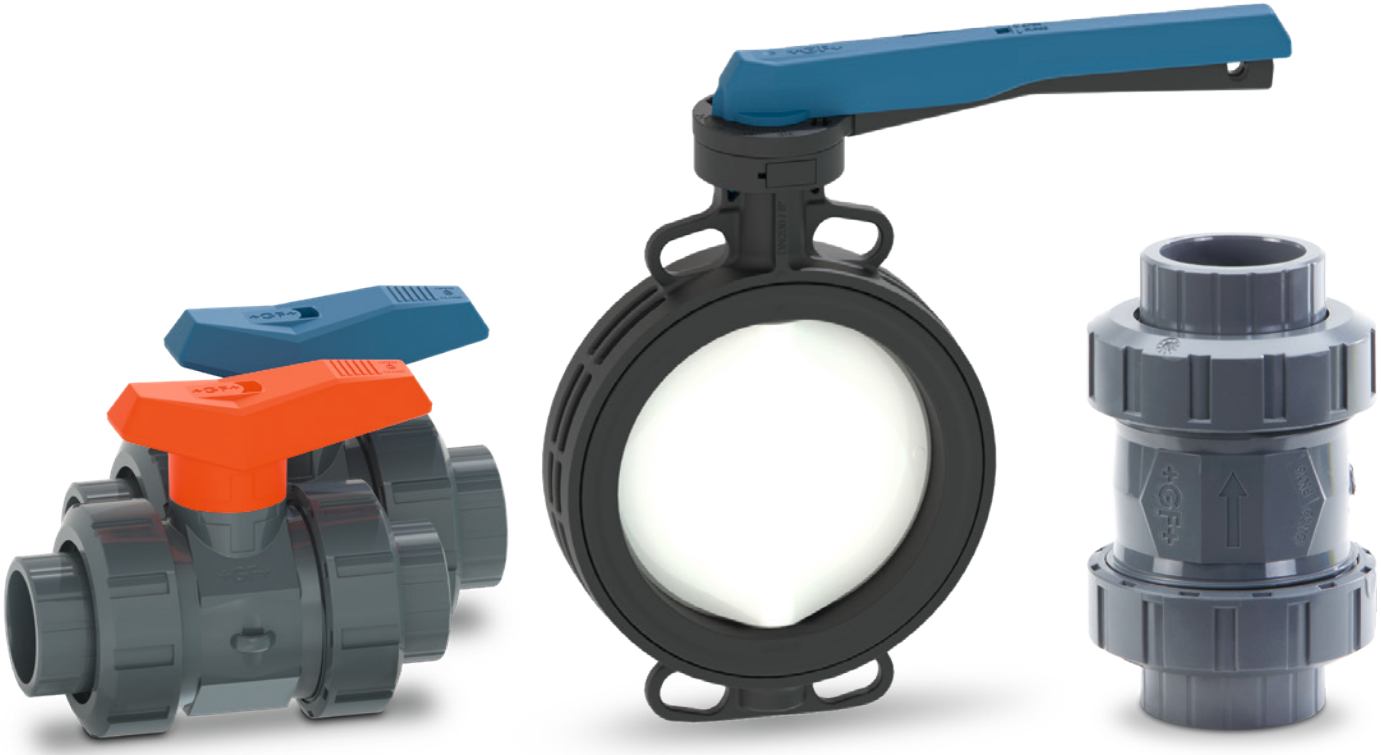
Reliable actuation with configuration flexibility
Electric and pneumatic actuators for high flexibility on standardized valve interfaces. A wide range of accessories complete our actuation portfolio

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

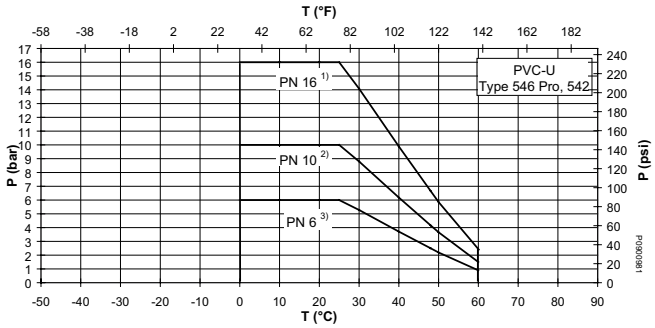
Neutral and aggressive media with a small amount of particles/solids. The chemical resistance is independent of the selected valve material (see list of chemical resistance from GF Piping Systems).

Pressure-temperature diagrams

The following pressure-temperature diagrams are based on a service life of 25 years and water or similar media.

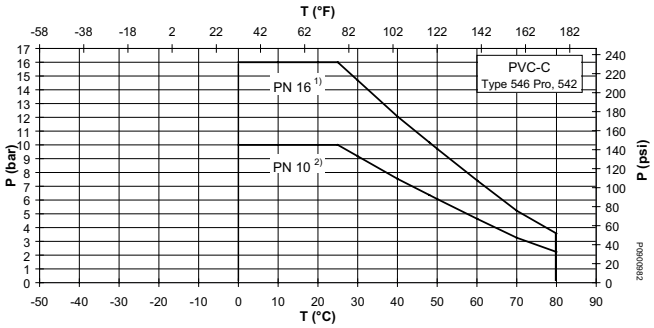
T Temperature (°C, °F)
P Permissible pressure (bar, psi)

PVC-U



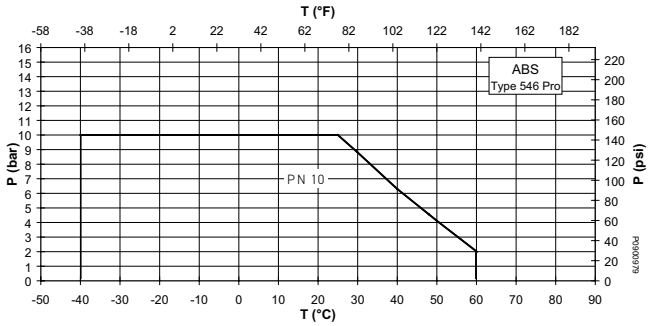
1) The central part of the ball valve is designed for the nominal pressure PN16
2) Depending on the connection, the nominal pressure is reduced to PN10
3) Depending on the connection, the nominal pressure is reduced to PN6

PVC-C

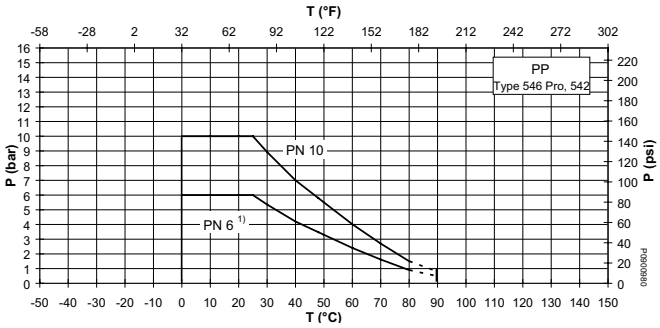


1) The central part of the ball valve is designed for the nominal pressure PN16
2) Depending on the connection, the nominal pressure is reduced to PN10

ABS

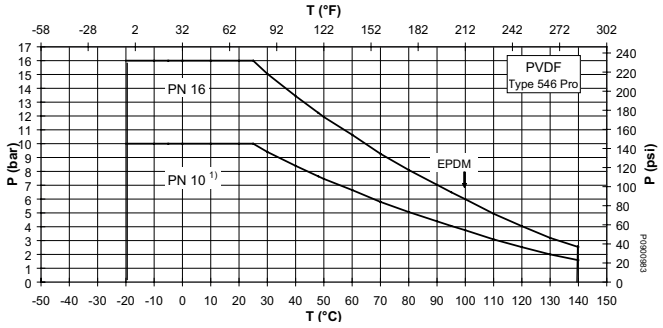


PP



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 Standard for wafer style installation	**Type 567** For fine adjustment	**Type 567** Manual reduction gear	**Type 578** For lug style and wafer style installation

Product description

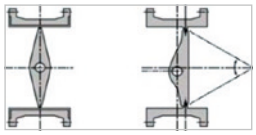
Butterfly valves of types 567 and 578 are corrosion -resistant and reliable control and shut-off valves that can be used in most applications in industrial water treatment, the chemical process industry, chemical trade, galvanization and in power plants. The valves are intended for wafer style and lug 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:

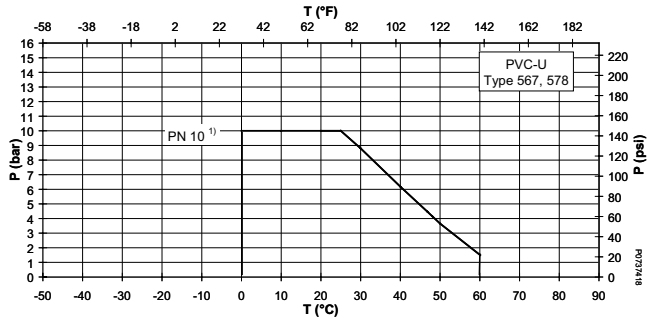
- Regularly check that no medium escapes to the outside. If medium exits from the flange connections, tighten them.
- We recommend operating the butterfly valves that are kept permanently in the same position 1 or 2 x a year to check their functionality.
- Depending on the operating conditions, the collars 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.

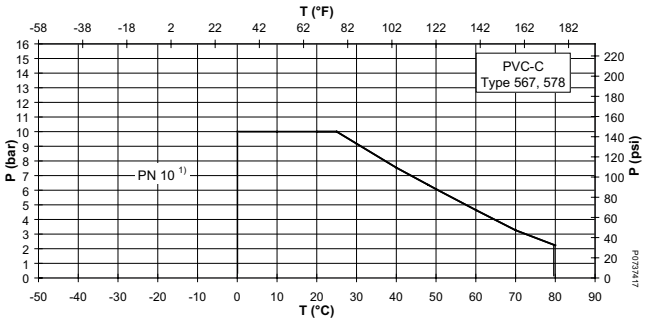
T Temperature (°C, °F)
P Permissible pressure (bar, psi)

PVC-U (DN50 – DN300)



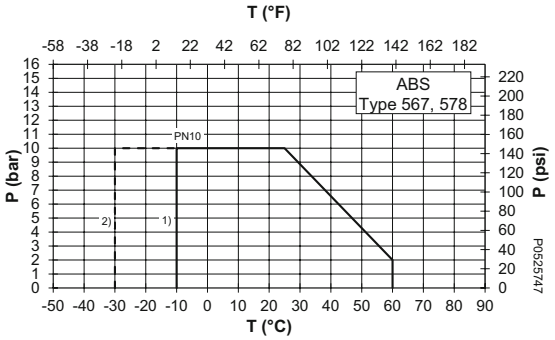
1) DN50 – DN300

PVC-C (DN50 – DN300)



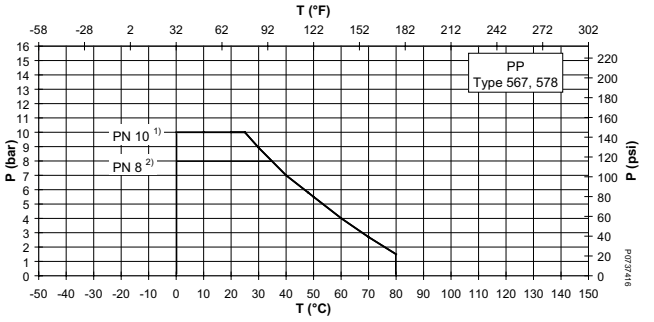
1) DN50 – DN300

ABS (DN50 – DN300)



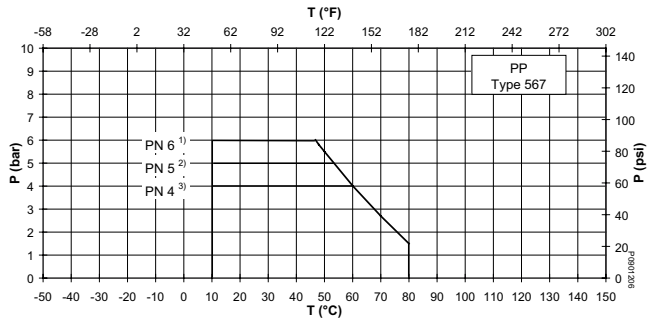
1) with standard type 567/578
2) - with PE flange adapter: only with COOL-FIT version of type 567
- with ABS flange adapter: with standard type 567/578 in installation direction A-B, or with COOL-FIT version of type 567

PP (DN50 – DN300)



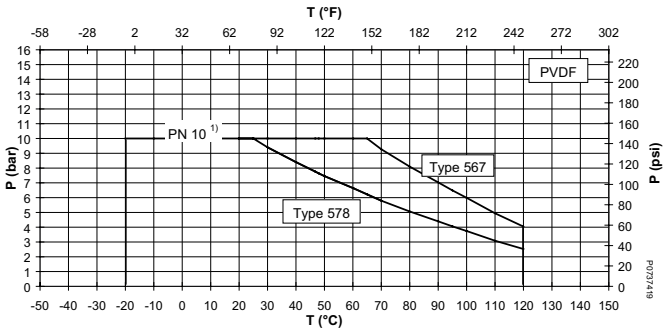
1) DN50 – DN200
2) DN250 – DN300

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.

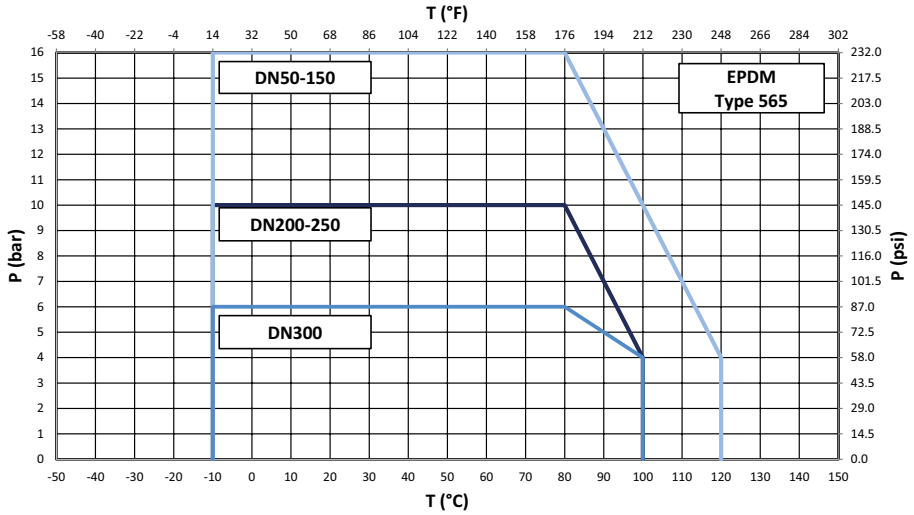
Full insight
The Data-Matrix-Code on the 565 simplifies the storage of all technical information for each valve, thus enabling individual traceability. The faultless identification of each valve facilitates easy installation, service, and repair.

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*

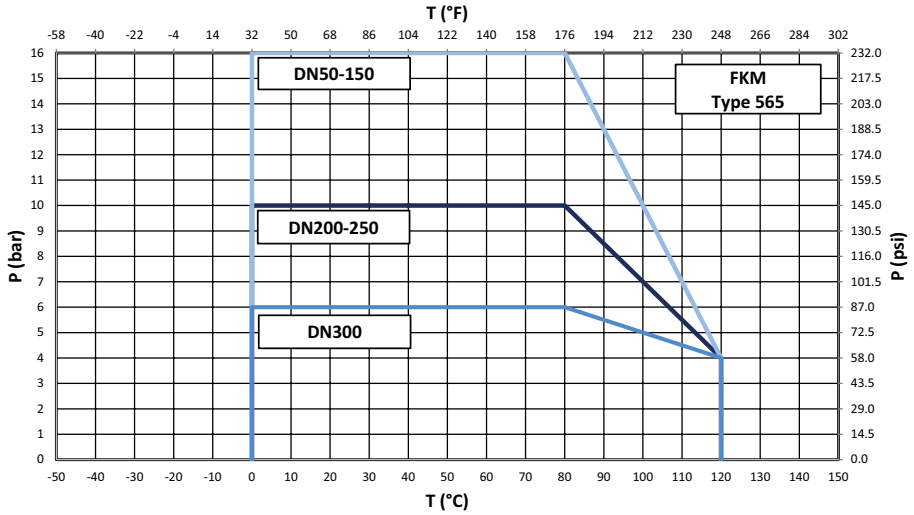
EPDM (DN50 – DN300)

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
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	Type 565 Lug	723
	Cone check valves	729
	Wafer check valves	738
	Process control valves	740

Ball valves



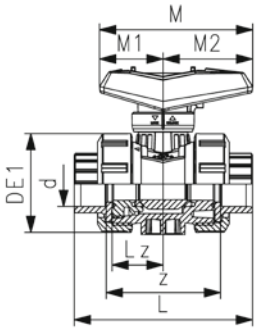
ABS Ball Valve type 546 Pro
With solvent cement sockets ABS ISO

Model:

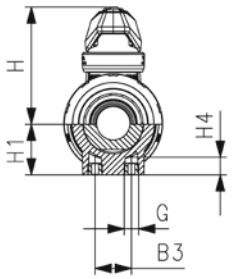
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

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



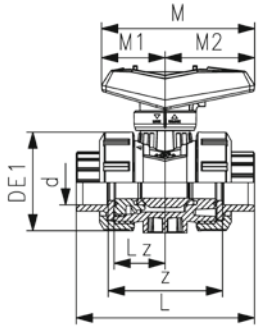
PVC-U Ball Valve type 546 Pro
With solvent cement sockets PVC-U ISO

Model:

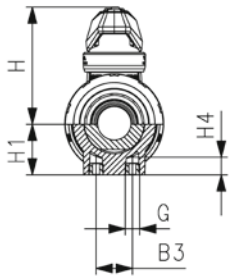
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

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



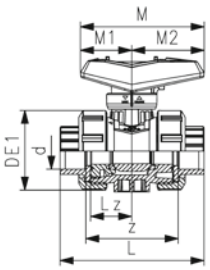
PVC-C Ball Valve type 546 Pro
With solvent cement sockets PVC-C ISO

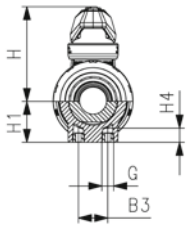
Model:

- 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



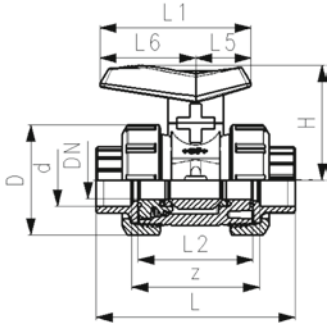
Ball valve type 542 PVC-U
With cemented socket (metric)
With PTFE ball seal

Model:

- For easy installation and removal
- Ball seat PTFE/ red lever

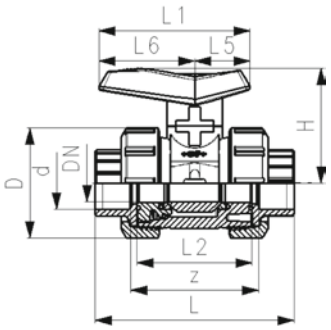
Option:

- 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



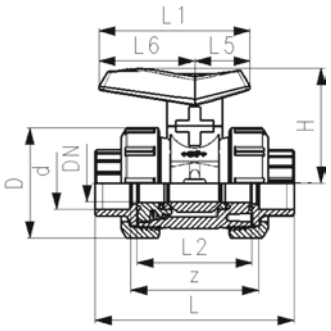
Ball valve type 542 PVC-C
With cemented socket (metric)
With PTFE ball seal

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



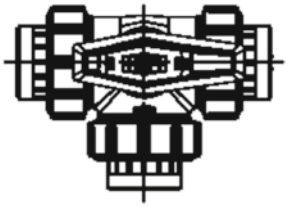
Printing sheets for ball valve labelling

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





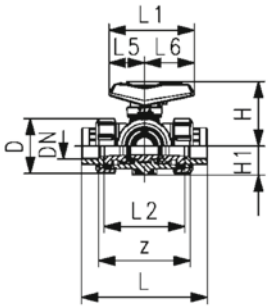
PROGEF Standard 3-Way ball valve type 543 Pro
Horizontal/L-port
With threaded sockets reinforced NPT

Model:

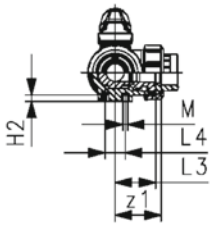
- Material: PP-H
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated 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:

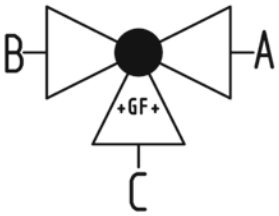
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



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









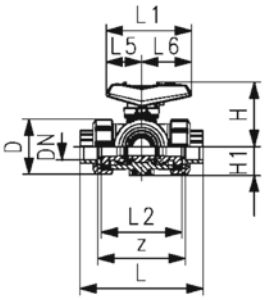
PROGEF Plus 3-Way ball valve type 543 Pro silicone free
Horizontal/L-port
With fusion sockets metric (US version)

Model:

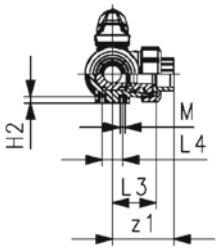
- Material: PP-H / silicone free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a 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:

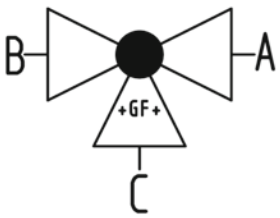
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



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

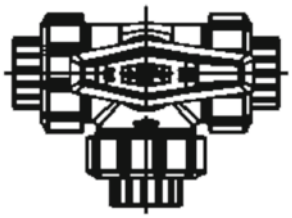


d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	50	61	28	8	110	82	72	36	25	35	47	6	82	41	⅜
20	50	61	28	8	112	82	72	36	25	35	47	6	82	41	½
25	58	74	32	8	129	106	85	43	25	44	62	6	97	49	¾
32	68	80	36	8	146	106	98	49	25	44	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









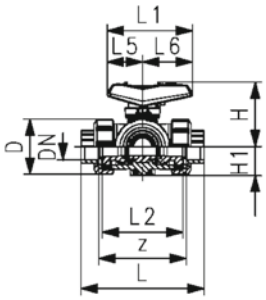
PROGEF Plus 3-Way ball valve type 543 Pro silicone free
Horizontal/L-port
With fusion sockets metric

Model:

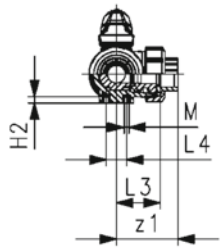
- Material: PP-H / silicone free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PVDF
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a 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:

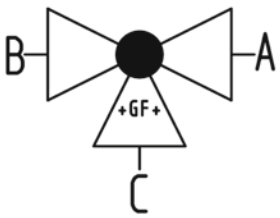
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



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









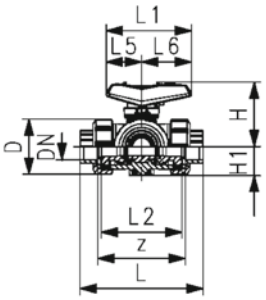
PROGEF Plus 3-Way ball valve type 543 Pro oil free
Horizontal/L-port
With fusion sockets metric

Model:

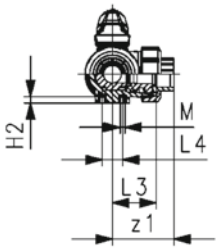
- Material: PP-H/oil free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on 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:

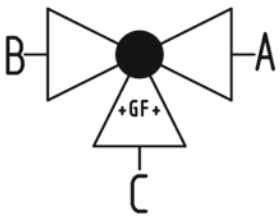
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



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

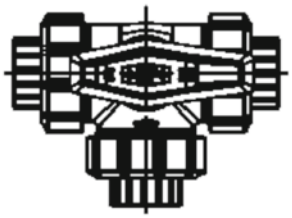


d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	50	61	28	8	110	82	72	36	25	35	47	6	82	41	⅜
20	50	61	28	8	112	82	72	36	25	35	47	6	82	41	½
25	58	74	32	8	129	106	85	43	25	44	62	6	97	49	¾
32	68	80	36	8	146	106	98	49	25	44	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









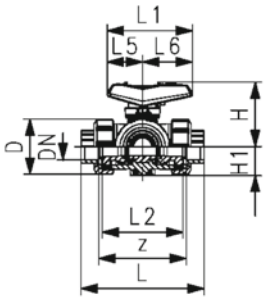
PROGEF Standard 3-Way ball valve type 543 Pro
Horizontal/L-port
With fusion sockets metric

Model:

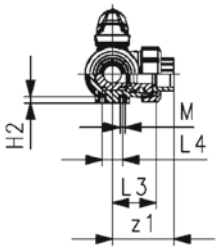
- Lockable lever as standard (DN10-DN50)
- Material: PP-H
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated 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:

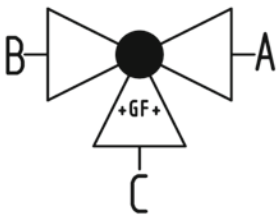
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



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



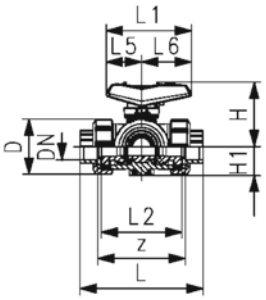
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	50	61	28	8	110	82	72	36	25	35	47	6	82	41	⅜
20	50	61	27	8	112	82	72	36	25	35	47	6	82	41	½
25	58	74	30	8	129	106	85	43	25	44	62	6	97	49	¾
32	68	80	36	8	146	106	98	49	25	44	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

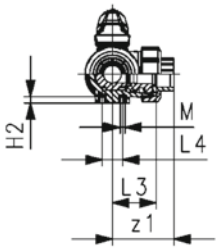


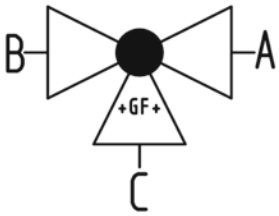














3-Way ball valve type 543 Pro ABS
Horizontal/L-port
With solvent cement sockets BS

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)

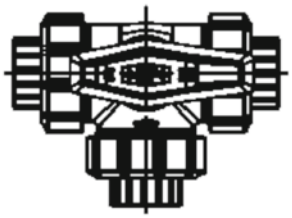
Option:

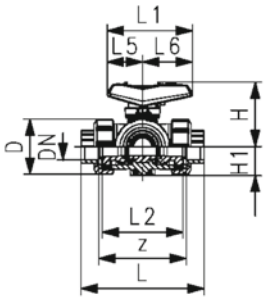
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

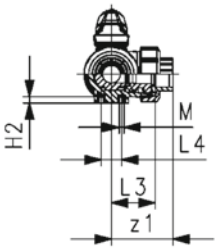
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
16	10	⅜	10	50	**169 543 061**	0.187
20	15	½	10	75	**169 543 062**	0.181
25	20	¾	10	150	**169 543 063**	0.263
	25	1	10	280	**169 543 064**	0.402
40	32	1 ¼	10	480	**169 543 065**	0.716
50	40	1 ½	10	620	**169 543 066**	1.061
63	50	2	10	1230	**169 543 067**	2.064

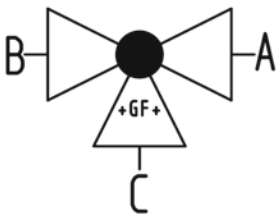
D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
50	61	28	8	109	82	73	36	25	35	47	6	77	38
50	61	28	8	112	82	73	36	25	35	47	6	77	38
58	74	32	8	131	106	86	43	25	44	62	6	90	45
68	80	36	8	151	106	99	50	25	44	62	6	103	52
84	95	45	9	181	131	120	60	45	57	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:

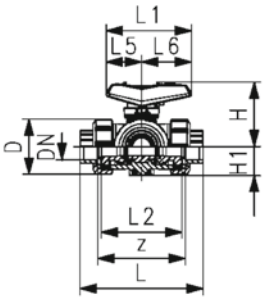
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

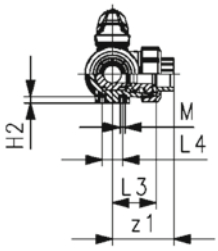
d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
16	10	Rp	⅜	10	50	**169 543 041**	0.187
20	15	Rp	½	10	75	**169 543 042**	0.192
25	20	Rp	¾	10	150	**169 543 043**	0.276
	25	Rp		10	280	**169 543 044**	0.420
40	32	Rp	1 ¼	10	480	**169 543 045**	0.716
50	40	Rp	1 ½	10	620	**169 543 046**	1.061
63	50	Rp	2	10	1230	**169 543 047**	2.064

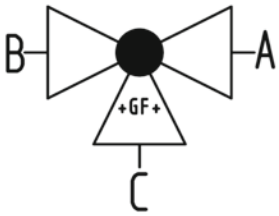
D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
50	61	28	8	113	82	73	36	25	35	47	6	87	43
50	61	28	8	117	82	73	36	25	35	47	6	85	42
58	74	32	8	135	106	86	43	25	44	62	6	100	50
68	80	36	8	155	106	99	50	25	44	62	6	113	57
84	95	45	9	179	131	120	60	45	57	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)

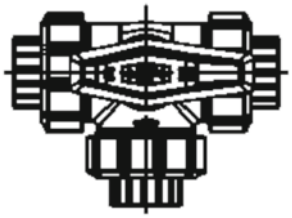
Option:

- 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





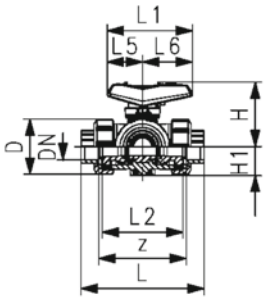
3-Way Ball Valve Type 543 Pro PVC-C silicone free
Horizontal/L-port
With solvent cement sockets ASTM

Model:

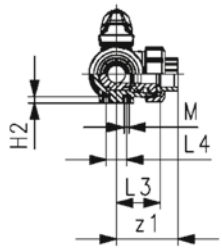
- Lockable lever as standard (DN10-DN50)
- Silicone free/paint-compatible
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on 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:

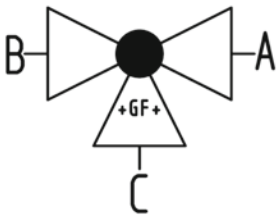
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



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



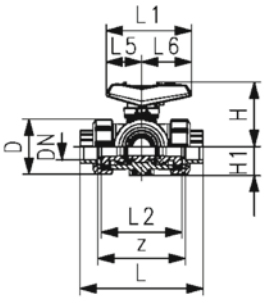
Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
⅜	50	61	28	8	123	82	73	36	25	35	47	6	85	42
½	50	61	28	8	122	82	73	36	25	35	47	6	77	38
¾	58	74	32	8	141	106	86	43	25	44	62	6	92	46
1	68	80	36	8	161	106	99	50	25	44	62	6	105	53
1 ¼	84	95	45	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

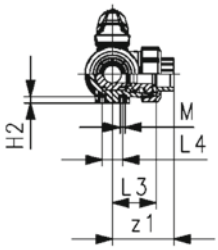


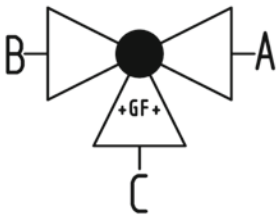














3-Way ball valve type 543 Pro PVC-C
Horizontal/L-port
With solvent cement sockets JIS

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)

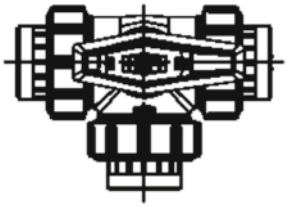
Option:

- 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





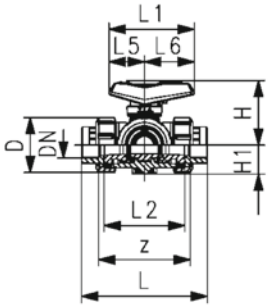
3-Way ball valve type 543 Pro PVC-U
Horizontal/L-port
With threaded sockets Rp

Model:

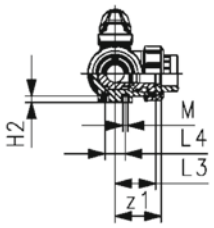
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

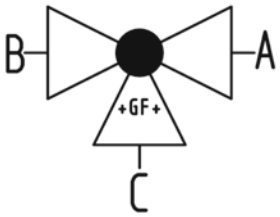
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



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









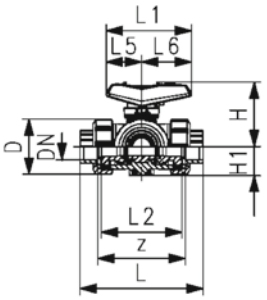
3-Way ball valve type 543 Pro PVC-U
Horizontal/L-port
With solvent cement sockets metric

Model:

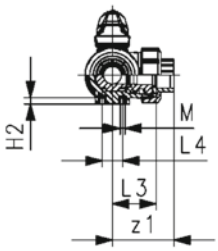
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

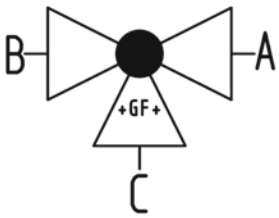
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



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

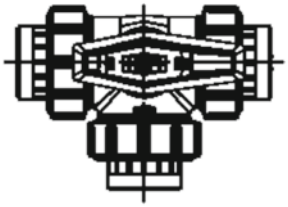


d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	50	61	28	8	109	82	73	36	25	35	47	6	81	40	⅜
20	50	61	28	8	112	82	73	36	25	35	47	6	81	40	½
25	58	74	32	8	131	106	86	43	25	44	62	6	94	47	¾
32	68	80	36	8	151	106	99	50	25	44	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









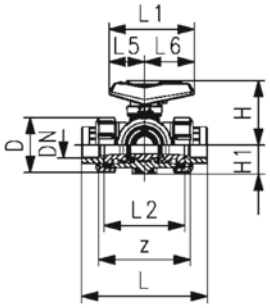
3-Way ball valve type 543 Pro PVC-C
Horizontal/L-port
With threaded sockets NPT

Model:

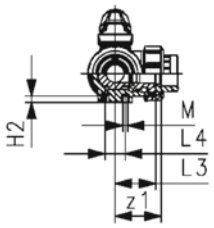
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

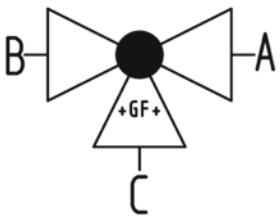
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



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



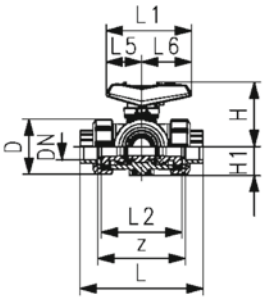
D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
50	61	28	8	115	82	73	36	25	35	47	6	87	43
50	61	28	8	114	82	73	36	25	35	47	6	81	40
58	74	32	8	131	106	86	43	25	44	62	6	96	48
68	80	36	8	155	106	99	50	25	44	62	6	111	56
84	95	45	9	181	131	120	60	45	57	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

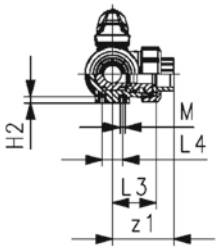


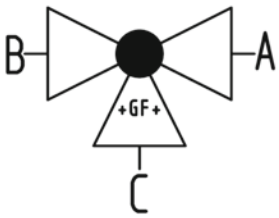














3-Way ball valve type 543 Pro PVC-C
Horizontal/L-port
With solvent cement sockets ASTM

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)

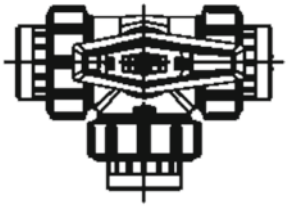
Option:

- 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





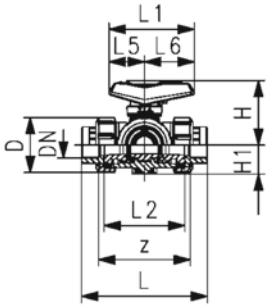
3-Way ball valve type 543 Pro PVC-C
Horizontal/L-port
With threaded sockets Rp

Model:

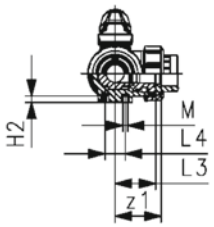
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

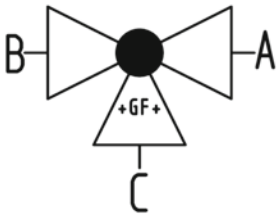
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



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



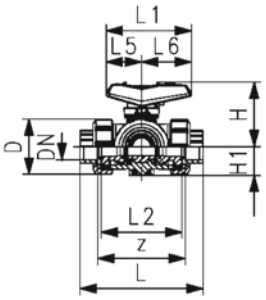
D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
50	61	28	8	113	82	73	36	25	35	47	6	87	43
50	61	28	8	116	82	73	36	25	35	47	6	85	42
58	74	32	8	135	106	86	43	25	44	62	6	100	50
68	80	36	8	155	106	99	50	25	44	62	6	113	57
84	95	45	9	179	131	120	60	45	57	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

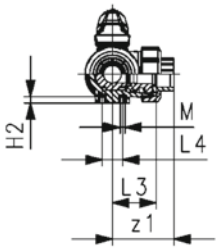


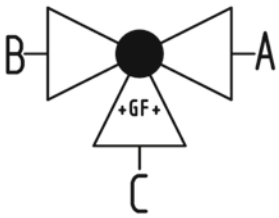














3-Way ball valve type 543 Pro PVC-C
Horizontal/L-port
With solvent cement sockets metric

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)

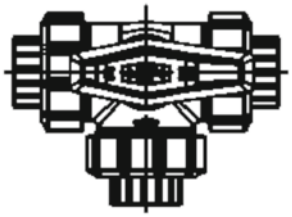
Option:

- 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





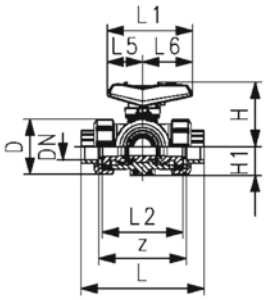
3-Way ball valve type 543 Pro PVC-U oil free
Horizontal/L-port
With solvent cement sockets JIS

Model:

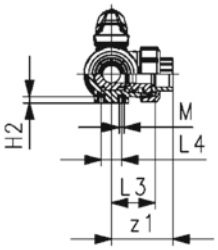
- Oil free
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless 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:

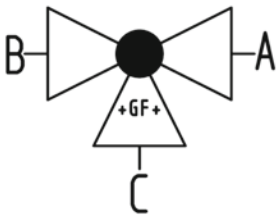
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



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



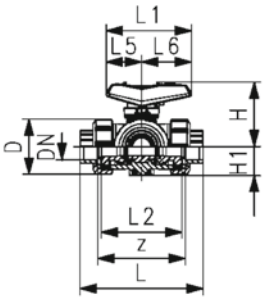
D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
50	61	27	8	112	82	73	36	25	35	47	6	81	40
58	74	30	8	131	106	86	43	25	44	62	6	94	47
68	80	36	8	151	106	99	50	25	44	62	6	107	54
84	95	44	9	181	131	120	60	45	57	74	8	130	65
97	102	51	9	205	131	137	69	45	57	74	8	143	72
124	117	64	9	261	152	179	89	45	66	86	8	185	92

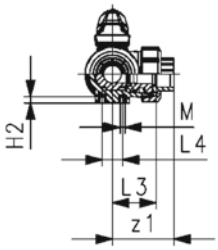


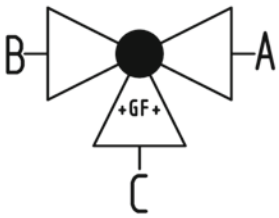














3-Way ball valve type 543 Pro PVC-U
Horizontal/L-port
With solvent cement sockets JIS

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



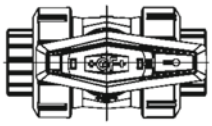
3-Way ball valve type 543 Pro PVC-U
Vertical/L-port
With solvent cement sockets JIS

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:

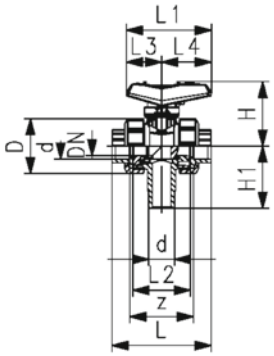
- For interconnection of two inputs



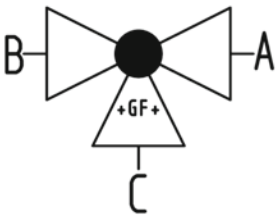
Option:

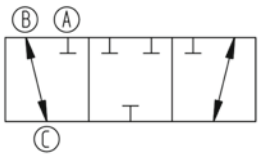
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

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









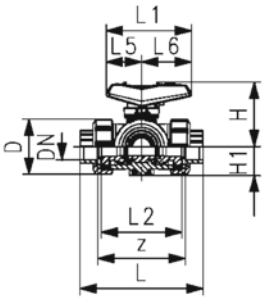
3-Way ball valve type 543 Pro PVC-U silicone free
Horizontal/L-port
With solvent cement sockets ASTM

Model:

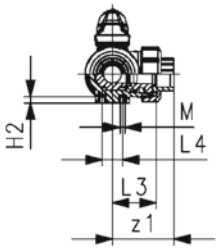
- Silicone free/paint-compatible
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on 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:

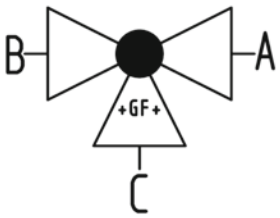
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



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

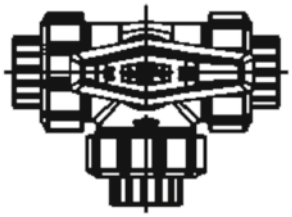


D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
50	61	28	8	123	82	73	36	25	35	47	6	85	42
50	61	28	8	122	82	73	36	25	35	47	6	77	38
58	74	32	8	141	106	86	43	25	44	62	6	92	46
68	80	36	8	161	106	99	50	25	44	62	6	105	53
84	95	45	9	187	131	120	60	45	57	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









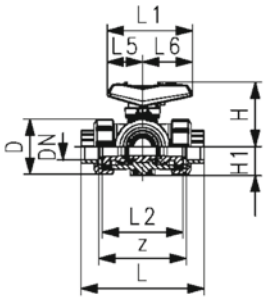
3-Way ball valve type 543 Pro PVC-U
Horizontal/L-port
With solvent cement sockets ASTM

Model:

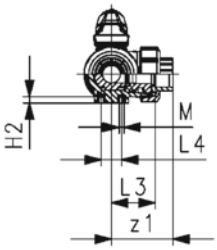
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

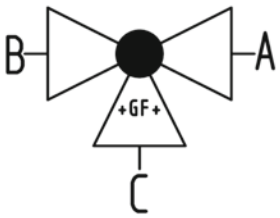
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



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

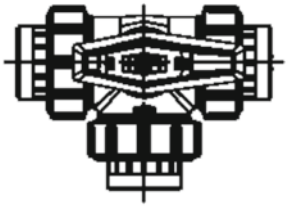


D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
50	61	28	8	123	82	73	36	25	35	47	6	85	42
50	61	28	8	122	82	73	36	25	35	47	6	77	38
58	74	32	8	141	106	86	43	25	44	62	6	92	46
68	80	36	8	161	106	99	50	25	44	62	6	105	53
84	95	45	9	187	131	120	60	45	57	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









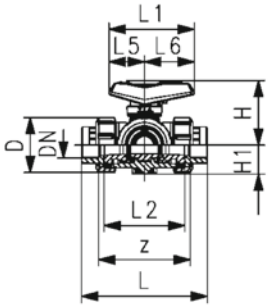
3-Way ball valve type 543 Pro PVC-U
Horizontal/L-port
With threaded sockets NPT

Model:

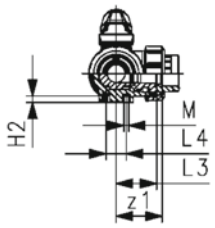
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

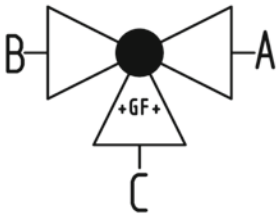
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



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







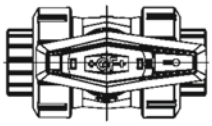
3-Way ball valve type 543 Pro PVC-U
Vertical/L-port
With solvent cement sockets BS

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:

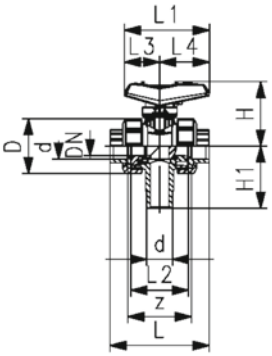
- For interconnection of two inputs



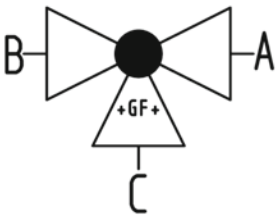
Option:

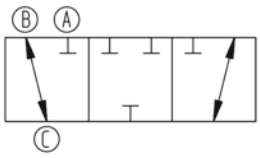
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

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



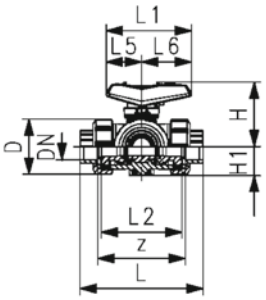
Size (inch)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	z (mm)
⅜	50	61	62	92	82	56	32	45	60
½	50	61	62	95	82	56	32	45	60
¾	58	74	72	111	106	66	39	58	69
1	68	80	77	123	106	71	39	58	75
1 ¼	84	95	87	146	131	85	54	74	89
1 ½	97	102	97	157	131	89	54	74	97
2	124	117	112	183	152	101	66	87	110

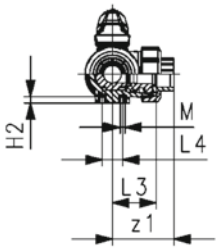


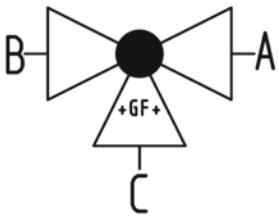














3-Way ball valve type 543 Pro PVC-U
Horizontal/L-port
With solvent cement sockets BS

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)

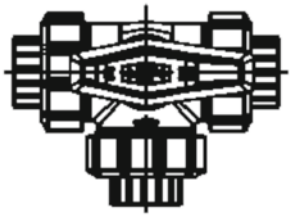
Option:

- 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





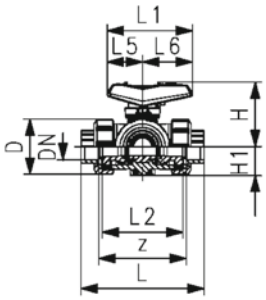
3-Way ball valve type 543 Pro PVC-U silicone free
Horizontal/L-port
With solvent cement sockets metric

Model:

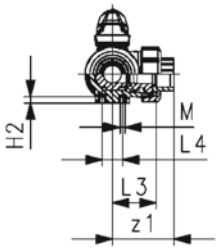
- Silicone free/paint-compatible
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PVDF
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on 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:

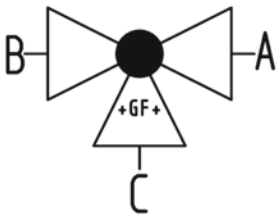
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



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



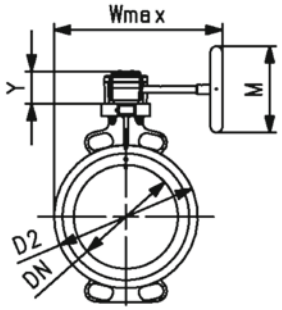
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	50	61	28	8	109	82	73	36	25	35	47	6	81	40	⅜
20	50	61	28	8	112	82	73	36	25	35	47	6	81	40	½
25	58	74	32	8	131	106	86	43	25	44	62	6	94	47	¾
32	68	80	36	8	151	106	99	50	25	44	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

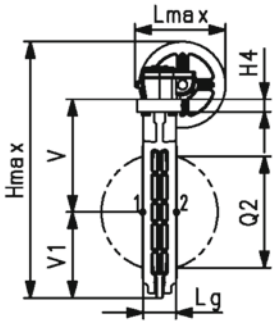


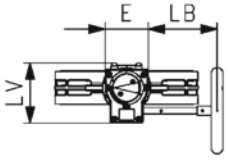


Butterfly valves









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:

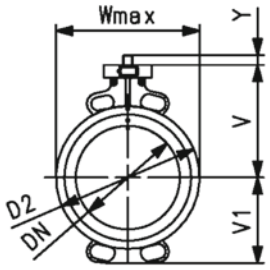
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

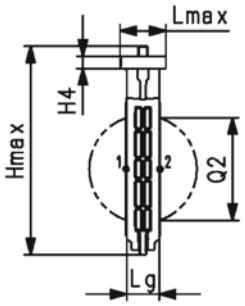
Option:

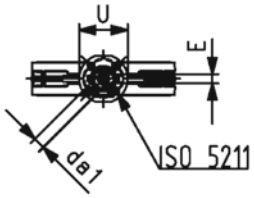
- Individual configuration of the valve possible
- Hand (lockable), pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

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

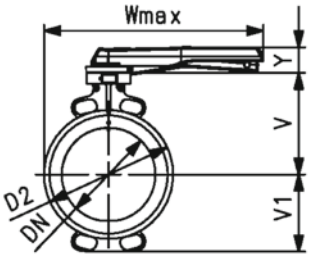
d (mm)	D2 (mm)	Wmax (mm)	Lmax (mm)	Hmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	da1 (mm)	E (mm)	U (mm)	Y (mm)	Q2 (mm)
63	100.0	118.5	85.5	222.5	23.0	133.5	63.0	43.0	14.1	11.0	90.0	27.0	28.5
75	121.0	132.5	85.5	248.5	23.0	140.0	82.0	46.0	14.1	11.0	90.0	27.0	44.0
90	138.0	138.0	85.5	261.0	23.0	146.0	89.0	46.0	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)

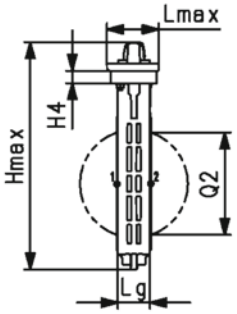


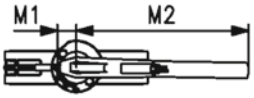
Option:

- 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



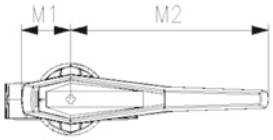
PROGEF Standard Wafer-style intermediate installation butterfly valve type 567
With hand lever
Flange standard metric/ANSI/BS/JIS

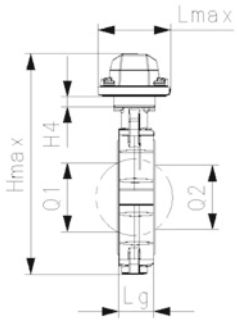
Model:

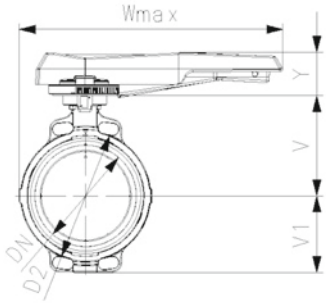
- Material: PP-H, DN350-DN600 material PP-R
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- We recommend for the 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





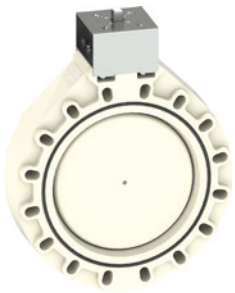


d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**167 567 002**	1.170	**167 567 022**	1.627
75	2 ½	65	10	1500	**167 567 003**	1.254	**167 567 023**	1.061
90	3	80	10	2400	**167 567 004**	1.384	**167 567 024**	1.404
110	4	100	10	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





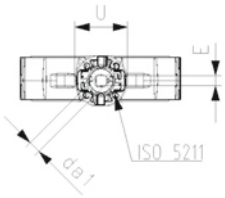
PROGEF Standard Wafer-style intermediate installation butterfly valve type 567
Bare shaft
Flange standard metric/ANSI/BS/JIS

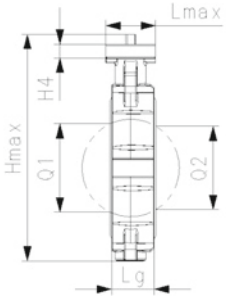
Model:

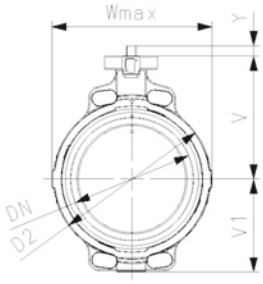
- Material: PP-H, DN350-DN600 material PP-R
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Interface F07 for the 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

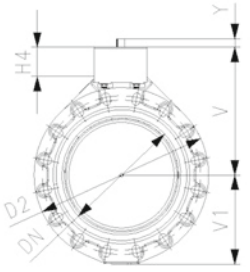
Note:

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







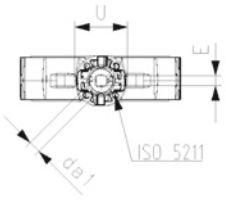


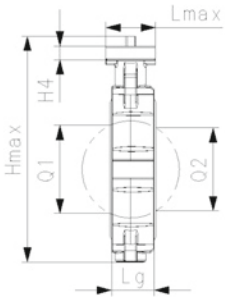
d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**167 567 802**	0.699	**167 567 822**	0.721
75	2 ½	65	10	1500	**167 567 803**	0.793	**167 567 823**	0.804
90	3	80	10	2400	**167 567 804**	0.913	**167 567 824**	0.939
110	4	100	10	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

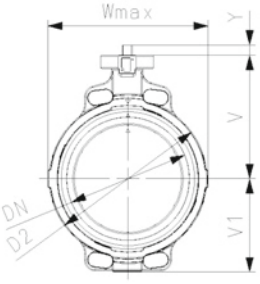
d (mm)	Size (inch)	DN (mm)	PTFE Code	Weight (kg)
63	2	50	**167 567 840**	0.699
75	2 ½	65	**167 567 841**	0.793
90	3	80	**167 567 842**	0.913
110	4	100	**167 567 843**	1.409
140	5	125	**167 567 844**	1.831
160	6	150	**167 567 845**	2.641
225	8	200	**167 567 846**	4.110
280	10	250	**167 567 847**	9.412
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

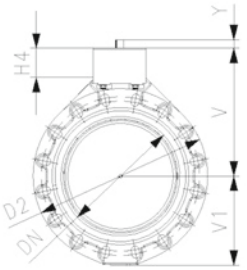
d (mm)	Size (inch)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)
63	2	50	238.3	84.8	118.4	90	133.3	23	78.8	45	104	40		26.2
75	2 ½	65	251.2	84.8	132.5	90	139.9	23	85.1	46	115	54	35	26.2
90	3	80	263.0	84.8	136.8	90	145.6	23	91.2	49	131	67	50	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





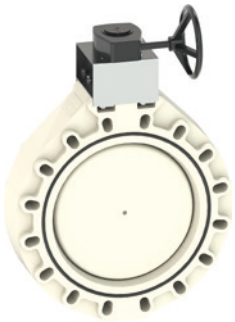


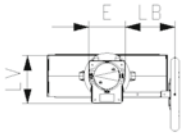


d (mm)	Size (inch)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)
400	16	400	766.0	180.0	595.0	180	435.0	100	300.0	169	595	353	350	31.0
450	18	450	875.0	220.0	635.0	220	520.0	130	320.0	179	635	393	390	35.0
500	20	500	935.0	220.0	700.0	220	550.0	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

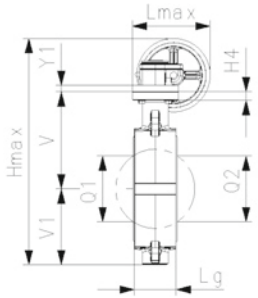
Model:

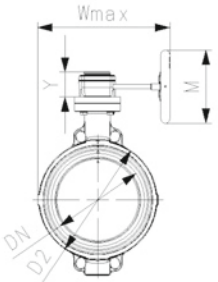
- Material: PP-H, DN350-DN600 material PP-R
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

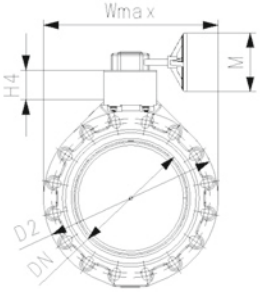
Note:

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



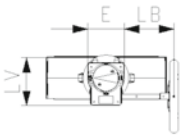




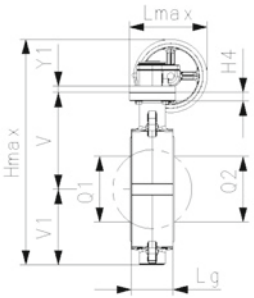
d (mm)	PTFE Code	Weight (kg)
63	**167 567 242**	3.003
75	**167 567 243**	2.781
90	**167 567 244**	3.301
110	**167 567 245**	3.736
140	**167 567 246**	2.770
160	**167 567 247**	4.969
225	**167 567 248**	8.538
280	**167 567 249**	12.884
315	**167 567 250**	16.442
355	**167 567 251**	40.000
400	**167 567 252**	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

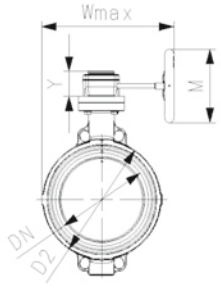
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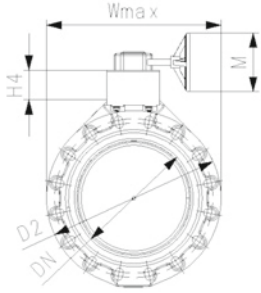


d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y1 (mm)	M (mm)	Y (mm)
400	865.0	245.0	595.0	180	435.0	100	300.0	169	595	353	350		200	62.0
450	992.0	275.0	635.0	220	520.0	130	320.0	179	635	393	390		250	62.0
500	1083.0	321.0	700.0	220	550.0	130	350.0	190	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







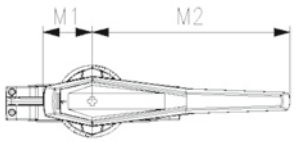
PROGEF Standard Lug-style end installation butterfly valve type 578
With hand lever
Flange standard metric

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:

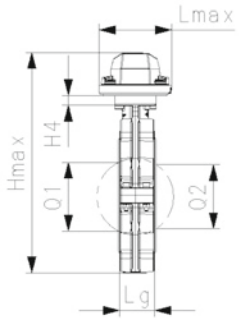
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

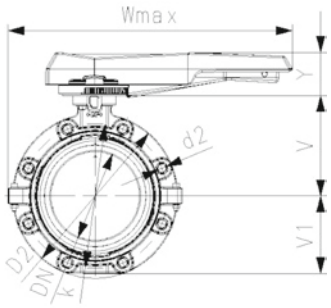


Note:

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:

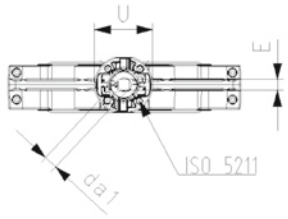
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Interface F07 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211

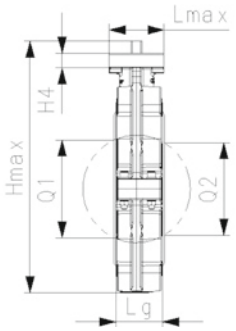
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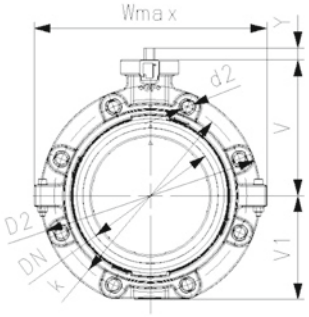
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

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



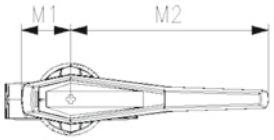
Wafer-style intermediate installation butterfly valve type 567 ABS
With hand lever
Flange standard metric/ANSI/BS/JIS

Model:

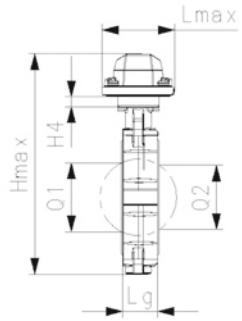
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

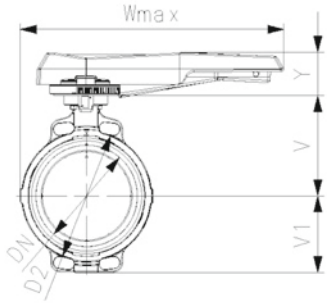
Note:

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



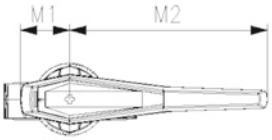
Wafer-style intermediate installation butterfly valve type 567 PVC-U
With hand lever
Flange standard metric/ANSI/BS/JIS

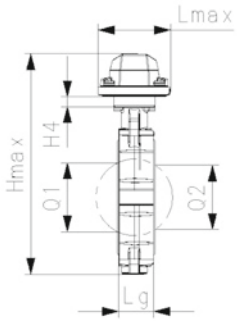
Model:

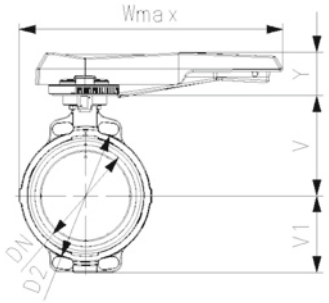
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum 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



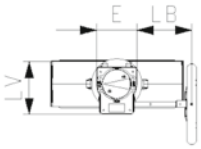
Wafer-style intermediate installation butterfly valve type 567 PVC-U
With gear box
Flange standard metric/ANSI/BS/JIS

Model:

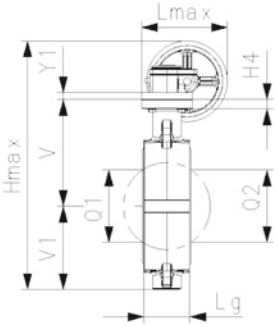
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

Note:

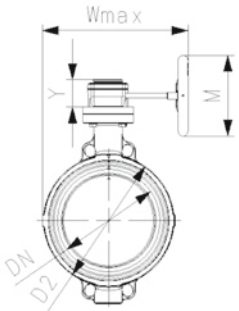
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



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



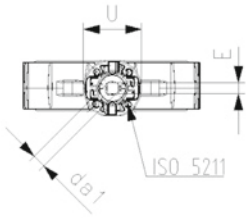
Wafer-style intermediate installation butterfly valve type 567 PVC-U
Bare shaft
Flange standard metric/ANSI/BS/JIS

Model:

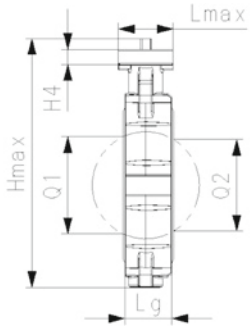
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Interface F07 for the dimensions DN50-200 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211

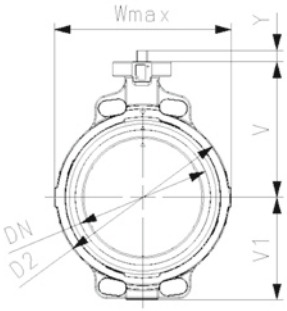
Note:

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



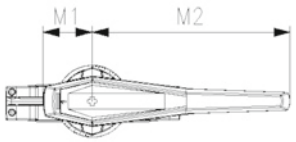
Lug-style end installation butterfly valve type 578 PVC-U
With hand lever
Flange standard metric

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:

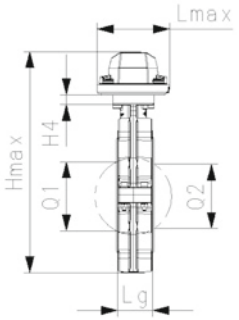
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)



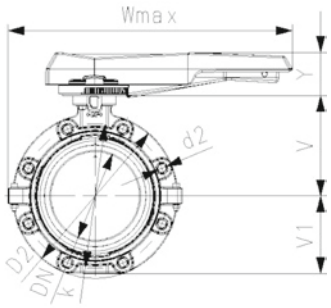
Note:

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:

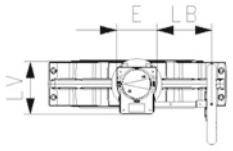
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

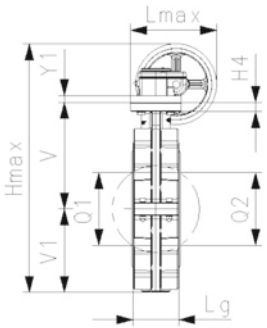
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

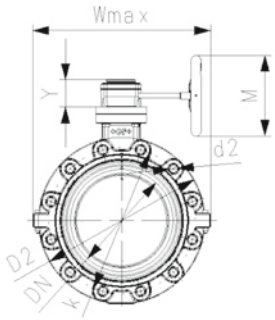
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



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:

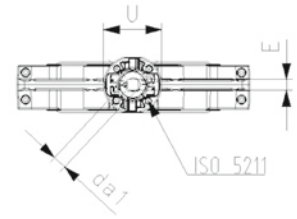
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Interface F07 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211

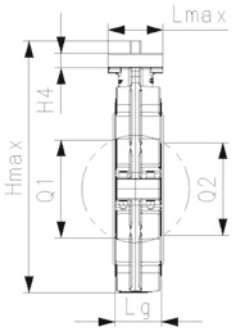
Option:

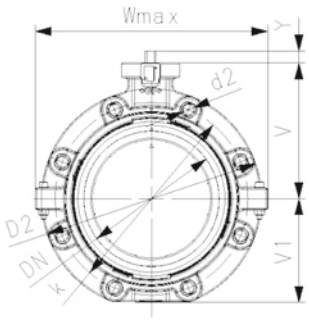
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

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:

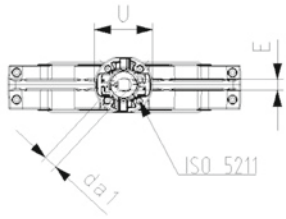
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Interface F07 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211

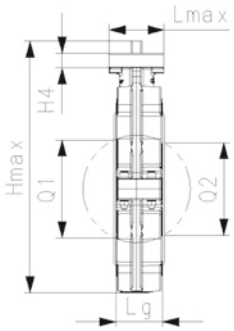
Option:

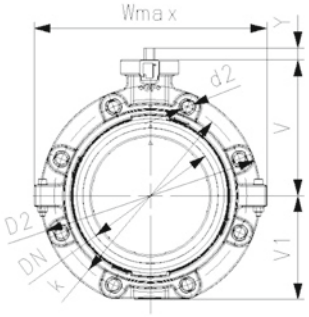
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

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



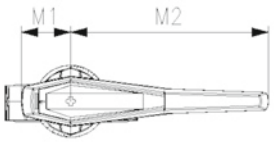
Wafer-style intermediate installation butterfly valve type 567 PVC-C
With hand lever
Flange standard metric/ANSI/BS/JIS

Model:

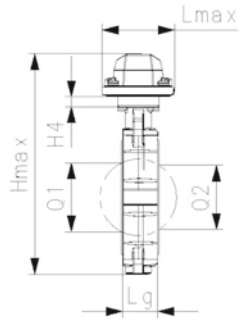
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

Note:

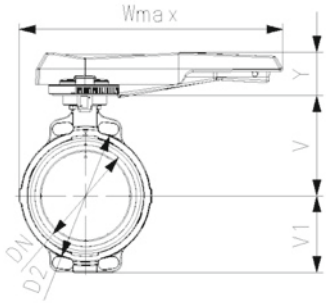
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



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



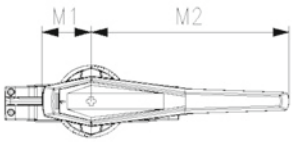
Lug-style end installation butterfly valve type 578 PVC-C
With hand lever
Flange standard ANSI/ASME

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

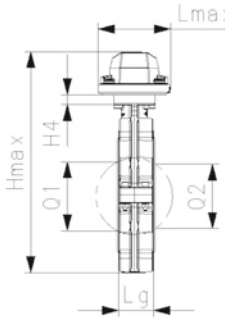
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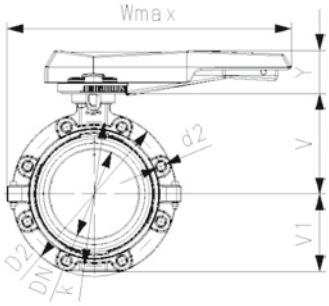
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)



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:

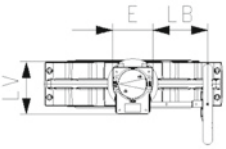
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

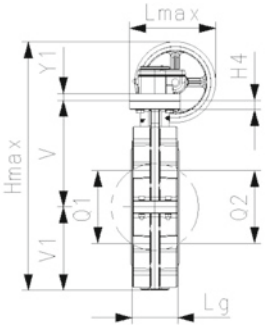
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

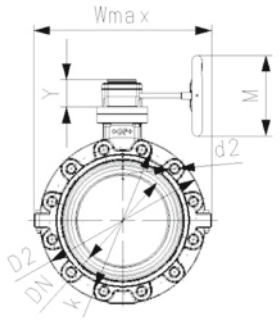
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



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:

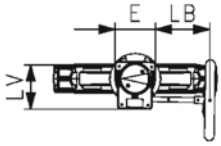
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

Option:

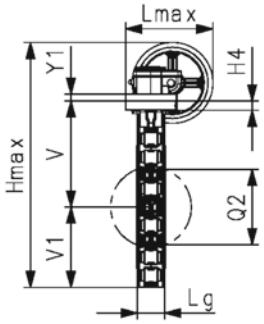
- Individual configuration of the valve possible
- Hand (lockable hand lever), pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

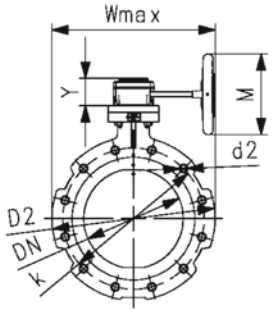
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



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:

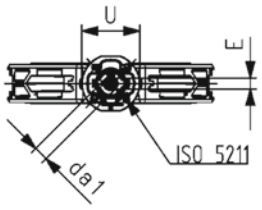
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

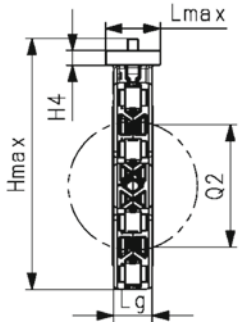
Option:

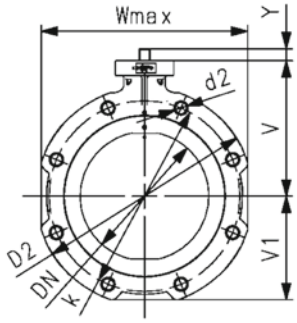
- Individual configuration of the valve possible
- Hand (lockable), pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

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:

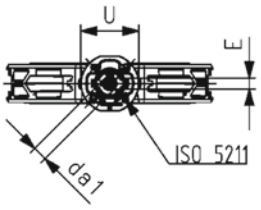
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

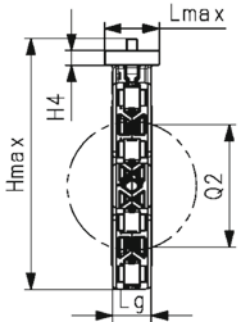
Option:

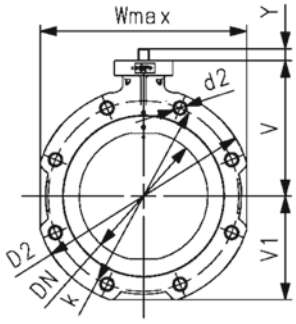
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

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



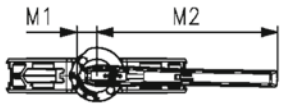
Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With hand lever
Flange standard ISO/Metric
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

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:

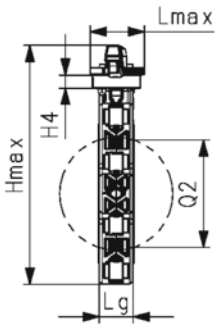
- Individual configuration of the valve possible
- Pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

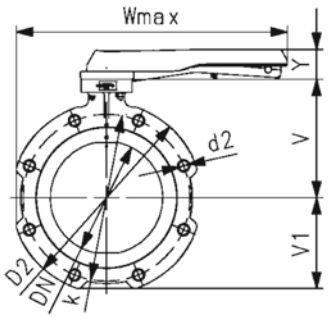


Note:

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



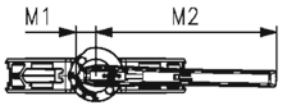
Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With hand lever
Flange standard ANSI / ASTM / ASME
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

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)

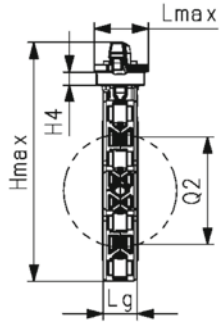
Option:

- 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

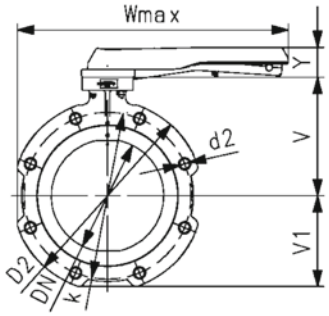


Note:

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:

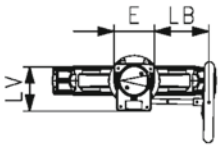
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

Option:

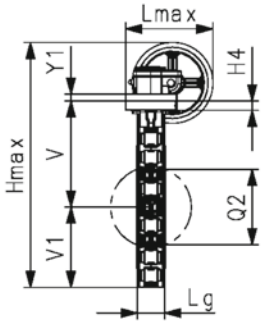
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

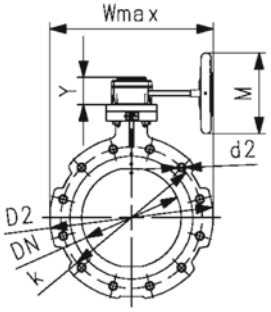
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



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

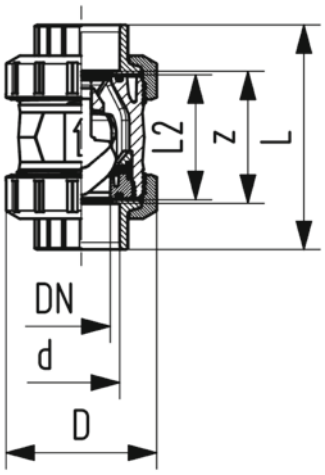
Cone check valves



PROGEF Standard Check valve type 561
Without spring
With fusion sockets metric

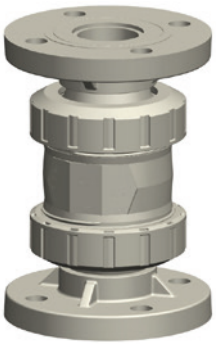
Model:

- 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

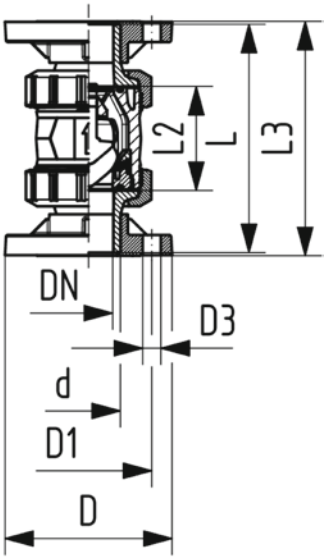
d (mm)	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
16	50	93	56	67	⅜
20	50	95	56	66	½
25	58	109	65	77	¾
32	68	119	71	83	1
40	84	135	85	99	1 ¼
50	97	147	89	105	1 ½
63	124	168	101	117	2
75	166	233	136	167	2 ½
90	200	254	141	180	3
110	238	301	164	215	4



PROGEF Standard Check valve type 561
Without spring
With fixed flanges metric

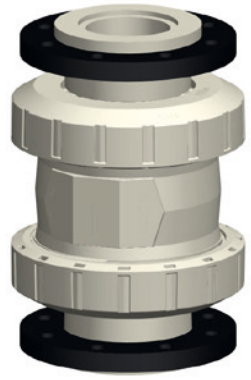
Model:

- 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

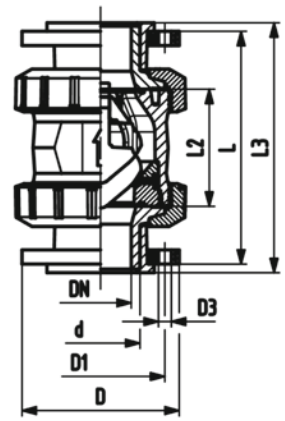
d (mm)	D (mm)	D1 (mm)	D3 (mm)	L (mm)	L2 (mm)	L3 (mm)	closest inch (inch)
20	95	65	14	120	56	130	½
25	105	75	14	140	65	150	¾
32	115	85	14	150	71	160	1
40	140	100	18	170	85	180	1 ¼
50	150	110	18	190	89	200	1 ½
63	165	125	18	220	101	230	2



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

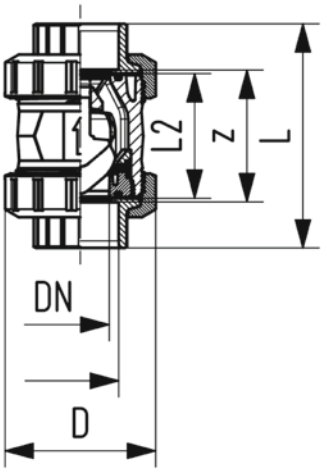
d (mm)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	closest inch (inch)
75	166	145	18	149	85	280	270	136	290	70	64	206	M8	1 ¼
90	200	160	18	161	105	296	270	141	310	70	64	206	M8	1 ½
110	238	180	18	178	123	336	320	164	350	120	64	256	M12	2



PROGEF Standard Check valve type 562
With threaded sockets reinforced Rp

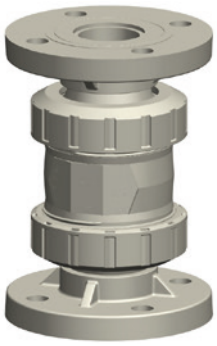
Model:

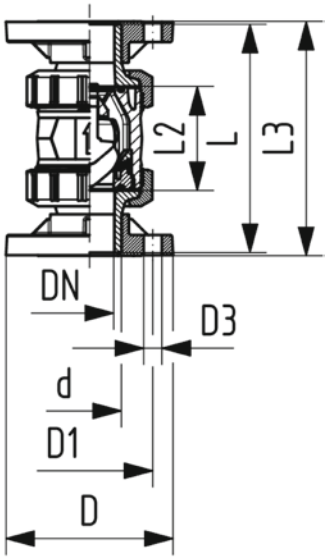
- Material: PP-H
- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- 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





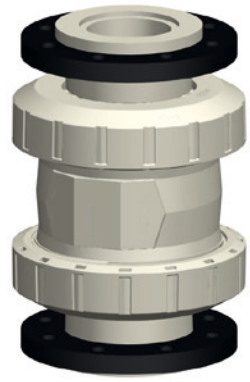
PROGEF Standard Check valve type 562
With fixed flanges metric

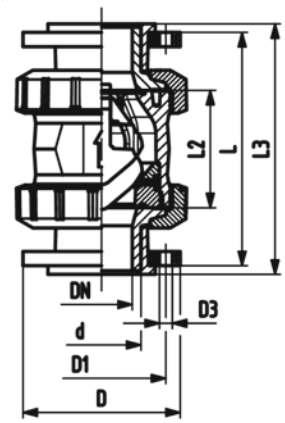
Model:

- 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





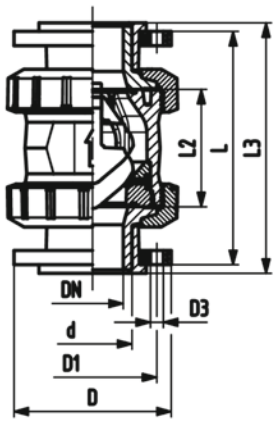
PROGEF Standard Check valve type 562
With backing flanges PP-st metric

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

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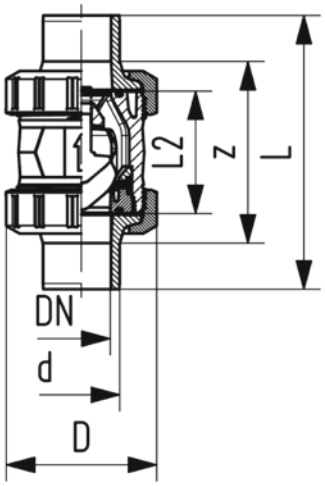
d (mm)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	closest inch (inch)
75	166	145	18	149	85	280	270	136	290	70	64	206	M8	1 ¼
90	200	160	18	161	105	296	270	141	310	70	64	206	M8	1 ½
110	238	180	18	178	123	336	320	164	350	120	64	256	M12	2



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

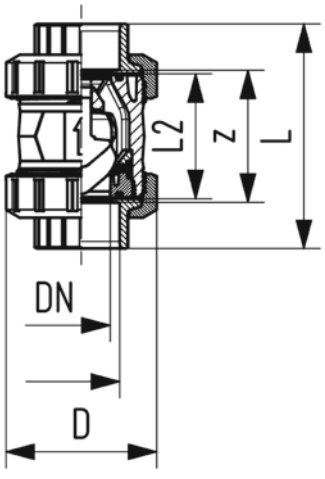
d (mm)	D (mm)	L (mm)	L2 (mm)	e (mm)	closest inch (inch)
50	97	191	89	2.9	1 ½
63	124	220	101	3.6	2
75	166	266	136	4.7	2 ½
90	200	264	141	5.5	3
110	238	301	164	6.8	4



Check valve type 561 PVC-U
Without spring
With threaded sockets Rp

Model:

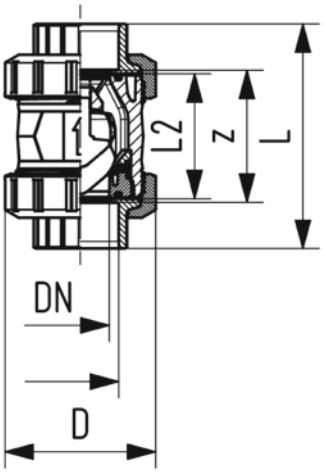
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



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



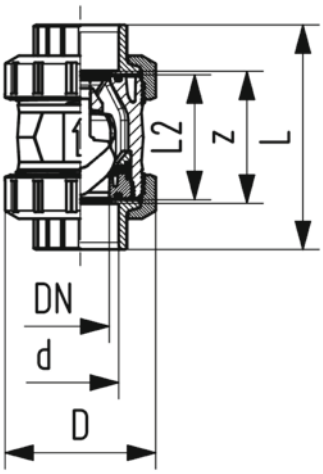
D (mm)	L (mm)	L2 (mm)	z (mm)
68	127	71	85
84	146	85	100
97	152	89	106
124	177	101	121
166	233	136	144
200	254	141	151
238	301	164	174



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

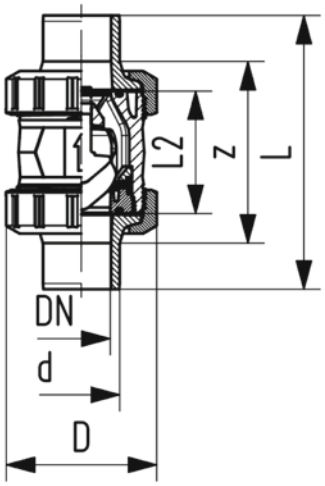
d (mm)	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
16	50	92	56	64	⅜
20	50	95	56	64	½
25	58	110	65	72	¾
32	68	123	71	79	1
40	84	146	85	94	1 ¼
50	97	157	89	95	1 ½
63	124	183	101	107	2
75	166	233	136	144	2 ½
90	200	254	141	151	3
110	238	301	164	174	4



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

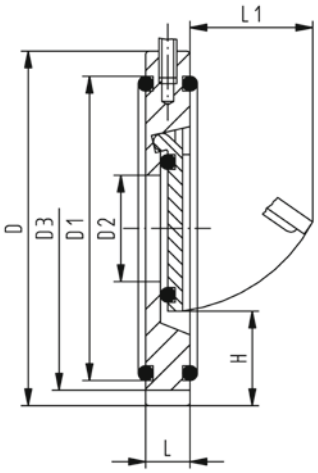


d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	16	190	**161 562 041**	0.130	**161 562 051**	0.130
20	15	16	180	**161 562 042**	0.130	**161 562 052**	0.130
25	20	16	380	**161 562 043**	0.270	**161 562 053**	0.290
32	25	16	460	**161 562 044**	0.320	**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

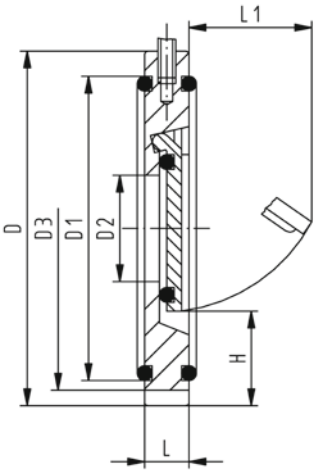
Installation instruction:

- 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:

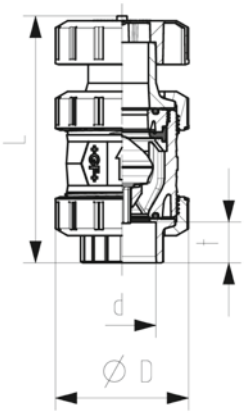
- Installation between ISO/DIN (all dimensions) and ANSI/BS flange adaptors (all except DN32 and DN125)
- Installation with ANSI/BS flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI/BS flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI/BS 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





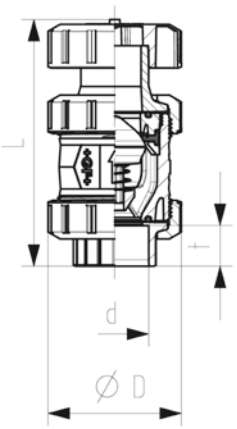
Ventilating and bleed valve Type 591 PVC-C
With solvent cement sockets metric

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





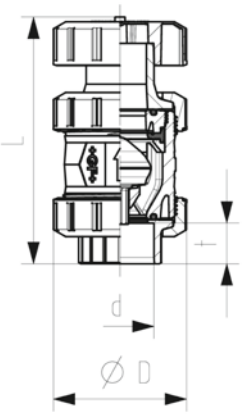
Ventilating valve type 595 PVC-C
With solvent cement sockets metric

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





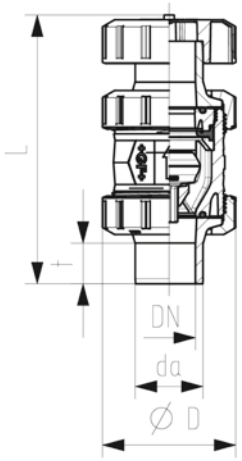
Ventilating and bleed valve Type 591 PVC-U
With solvent cement sockets metric

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





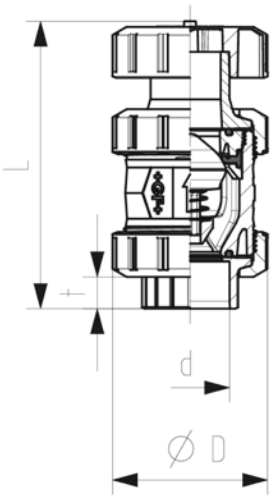
Ventilating and bleed valve Type 591 PVC-U
With solvent cement spigots metric

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





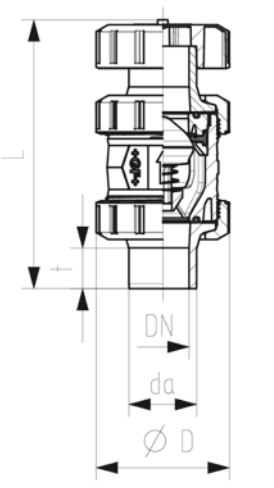
Ventilating valve type 595 PVC-U
With solvent cement sockets metric

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.

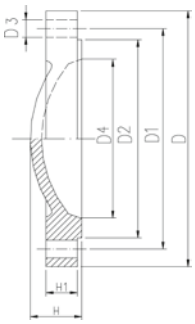
Nominal diameter- Inch	Nominal diameter DN	Bolt tightening torque [lb-ft]	
		Flat gasket up to max. pressure of 10 bar / 40 °C	Profile gasket up to max. pressure of 16 bar
½	15	15	10
¾	20	15	10
1	25	15	10
1¼	32	15	10
1½	40	15	10
2	50	30	20
2½	65	30	20
3	80	40	30
4	100	30	20
6	150	50	33
8	200	50	33
10	250	60 [1)]	40
12	300	75 [1)]	53

1) Up to a maximum working pressure of 6 bar

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	Backing flanges PP-V	755
	Fixed flanges PVC-U JIS	758
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Backing flanges PVC-U





Blanking flange PVC-U
Jointing face serrated metric

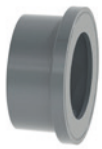
Model:

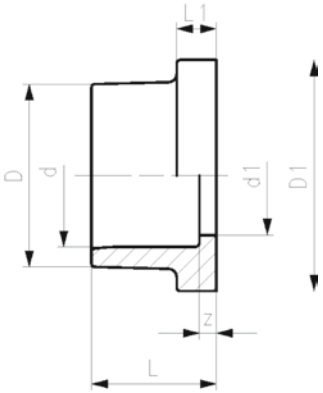
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- **d63 to d160: combined jointing face (serrated and flat)**
- d250: connecting dimension: ISO 2536
- **Bolt circle PN 10**

* 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:

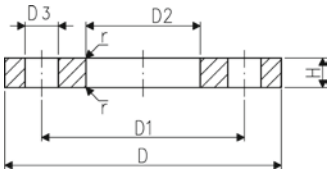
- Solvent cement socket metric
- d16 - d50: Sealing surface flat
- d63 - d400: combined jointing face flat and serrated
- Combination with gasket: profile flange gasket EPDM code no. 748 440 705-725, FKM code no. 749 440 705-725 or flat gasket EPDM code no. 748 440 705-725, only use O-ring EPDM code 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

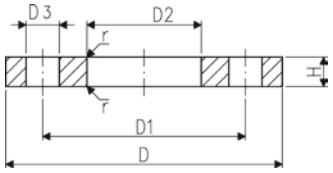
AL: number of holes

[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

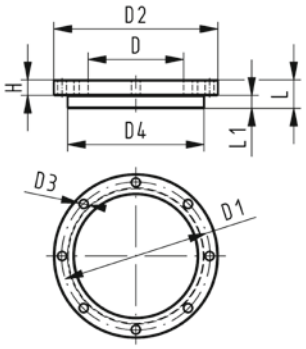
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D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	r (mm)	AL	SC
395	350	277	22	36	4	12	M20
370	325	277	22	36	4	8	M20
395	350	310	22	36	4	12	M20
445	400	348	22	36	4	12	M20
505	460	388	22	38	5	16	M20
565	515	442	26	42	5	16	M24
95	60	28	16	11	1	4	
105	70	34	16	12	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**

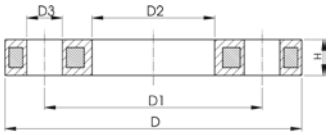
AL: number of holes
L: height backing ring + collar thickness end blank

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

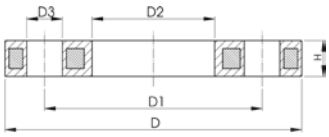
Model:

- 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

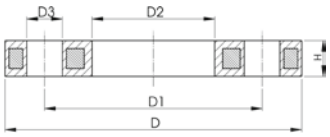
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	d (mm)	DN (mm)	D (mm)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
	250	250	395	16	Metric	PN10	Socket	**727 700 821**	7.179
*, **	280	250	410	16	Metric	PN16	Butt	**724 700 322**	6.310
	280	250	395	16	Metric	PN10	Butt	**727 700 722**	6.573
	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

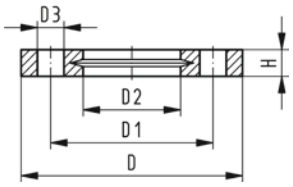
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	d (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
	200	295	235	22	27	8	M20
	200	295	226	22	29	8	M20
*, **	225	295	238	22	31	12	M20
	225	297	238	22	27	8	M20
	225	297	250	22	29	8	M20
*, **	250	355	288	26	35	12	M24
	250	325	277	22	32	8	M20
	250	362	293	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)

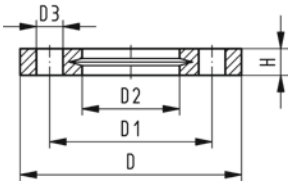
Model:

- 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

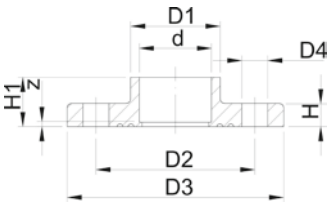
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d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
20	95	65	28	14	16	4	M12
20	95	60	28	16	16	4	M12
25	105	75	34	14	17	4	M12
25	105	70	34	16	17	4	M12
32	115	85	42	14	18	4	M12
32	115	79	42	16	18	4	M12
40	140	100	51	18	20	4	M16
40	140	89	51	16	20	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:

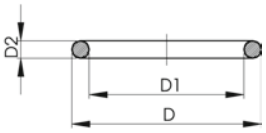
- Solvent cement socket metric
- Connecting dimensions: JIS B 2220, 10K

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

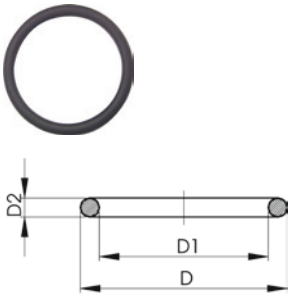
Model:

- 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

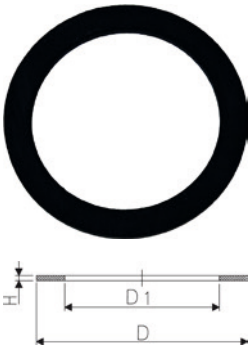
	d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
	10 - 12	8	**748 410 004**	0.002	**749 410 004**	0.020
	16	10	**748 410 005**	0.002	**749 410 005**	0.002
	20	15	**748 410 006**	0.002	**749 410 006**	0.002
	25	20	**748 410 007**	0.002	**749 410 007**	0.002
	32	25	**748 410 008**	0.003	**749 410 008**	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

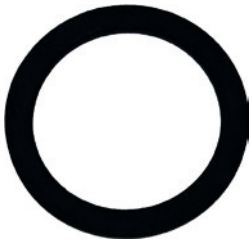


Flat gasket
For tank adaptors

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

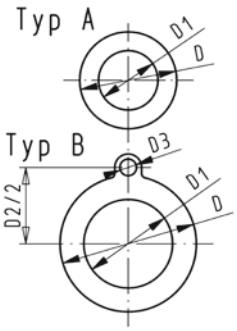


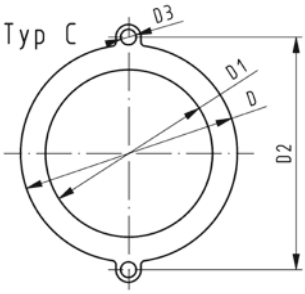
Flat gasket
EPDM

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

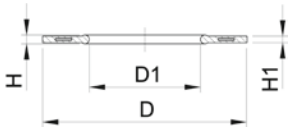




d (mm)	DN (mm)	PN (bar)	Type	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	di FA (mm)
16	10	10	A	**748 400 305**	0.004	46	16			2	6 - 26
20	15	10	A	**748 400 306**	0.012	51	20			2	10 - 30
25	20	10	A	**748 400 307**	0.004	61	25			2	15 - 35
32	25	10	A	**748 400 308**	0.008	71	32			2	22 - 42
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:

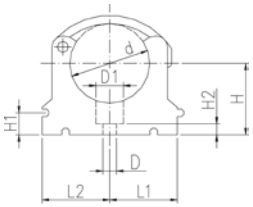
- NBR = Nitrile rubber, hardness approx. 80° Shore
- For all metric GF Flange Adaptors
- Rubber-steel body combined with rubber profile cord ring up to d630
- Rubber-steel body ideal for big dimensions (d710 - d1000)
- Approved acc. to DVGW standard DIN EN 682 for gas
- D corresponds to the centring 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









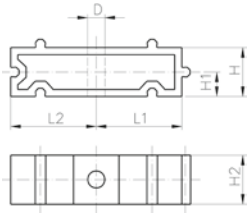
KLIP-IT pipe clip type 061 PP metric

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

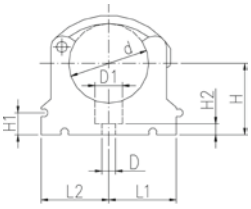
Model:

- 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









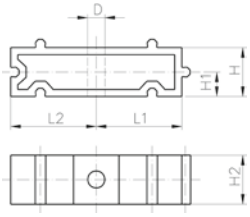
KLIP-IT pipe clip type 061 PE metric

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





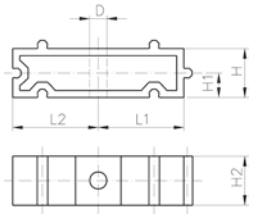
KLIP-IT spacer type 061 PE

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

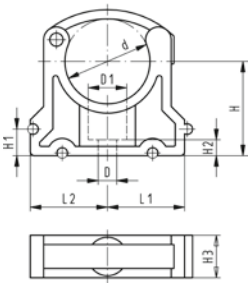
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d (mm)	Inch (inch)	Code	Weight (kg)	D (mm)	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	SC
50	1 1/2	**173 061 160**	0.017	7	37	37	20	10	22	M6
63	2	**173 061 161**	0.025	9	45	45	20	10	25	M8
75	2 1/2	**173 061 162**	0.027	9	52	52	20	10	25	M8
90	3	**173 061 163**	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

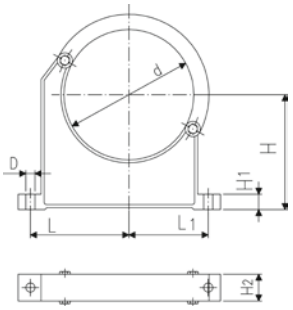
Model:

- 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

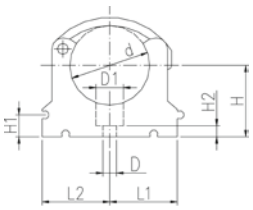
Model:

- 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 other widths 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	137/206 280/420	2,5 to 25
 **UNI-Rep**	36 -172	60 - 110	16 - 25
	180 - 745	137/206 280/420	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

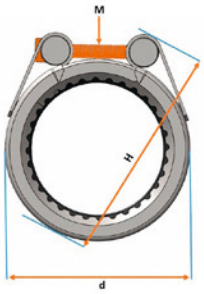
Sealing material	EPDM › 21 - 172 mm	EPDM › 180 mm	NBR	Silicone or Viton
Temperature range	-30 °C - +125 °C	-30 °C - +80 °C	-20 °C - +80 °C	on request
Medium	drinking water, waste water, compressed air, alcohol and solids	drinking water, waste water, compressed air, alcohol and solids	water, gas, oil, fuel, and other hydrocarbons	on request

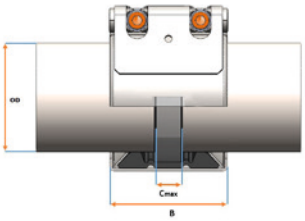
Quality	Housing	Lock bars	Bolts	Anchoring
W5	1.4571 / 316 Ti	1.4571 / 316 Ti	A4 – 80 / 316 Ti	1.4310 / 301

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UNI-Grip







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.

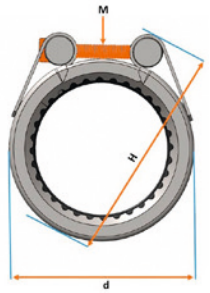
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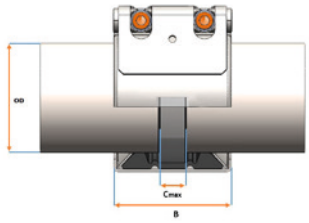
- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

	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

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	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:

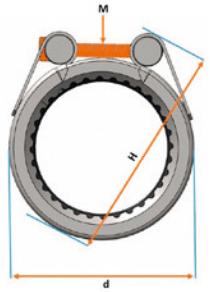
- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

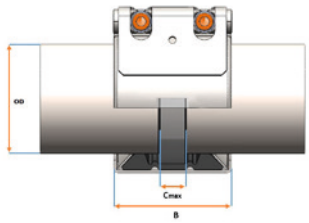
Option:

- 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.**



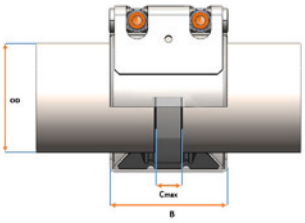


	OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
	64 - 72	**779 724 411**		
	72 - 80	**779 724 412**	**779 721 412**	1.0
	80 - 88	**779 724 413**		
	88 - 96	**779 724 414**	**779 721 414**	1.0
	97 - 105	**779 724 415**	**779 721 415**	1.1
	104 - 112	**779 724 416**	**779 721 416**	1.1
	112 - 120	**779 724 417**	**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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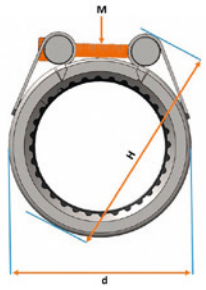


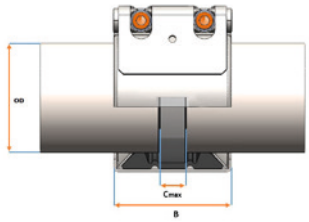
	OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
*	288 - 301		**779 762 132**	11.1
*	301 - 314	**779 764 133**	**779 762 133**	11.5
*	315 - 328	**779 764 134**	**779 762 134**	11.8
*	327 - 340	**779 764 135**	**779 762 135**	12.1
*	340 - 353		**779 762 136**	12.4
*	350 - 363		**779 762 137**	12.7
*	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.

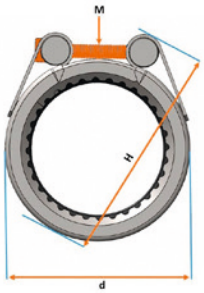
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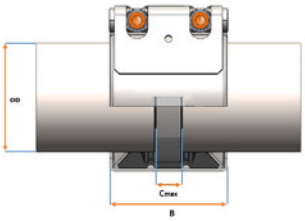
- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

	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:

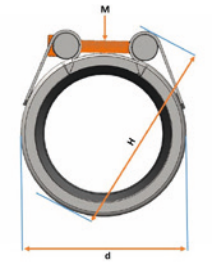
- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

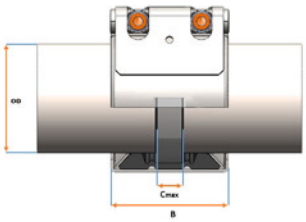
OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
301 - 314	**779 764 333**		
315 - 328	**779 764 334**		
327 - 340		**779 762 335**	7.4
374 - 387		**779 762 339**	9.5
400 - 413	**779 764 341**	**779 762 341**	9.9
438 - 451	**779 764 344**	**779 762 344**	10.5
503 - 516	**779 764 349**	**779 762 349**	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

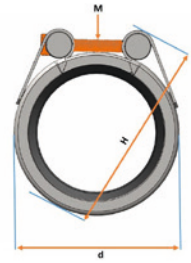
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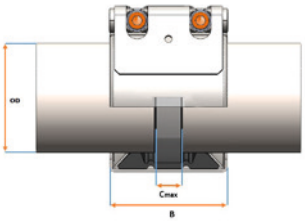
- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

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

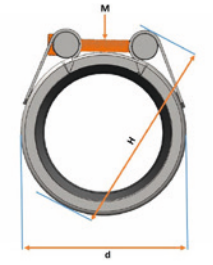
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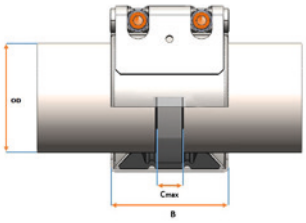
- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

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

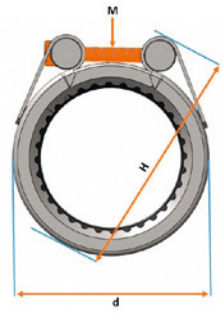
Attention:

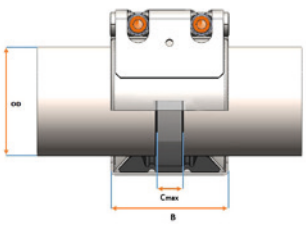
- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

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:

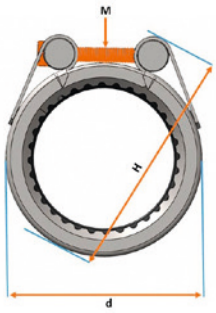
For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory

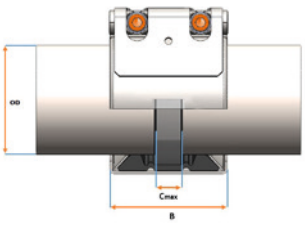
Attention:

- **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:

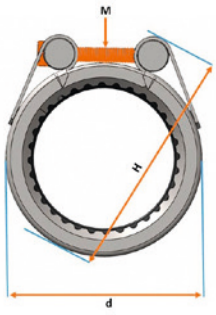
- Sealing type Viton (FKM) on request

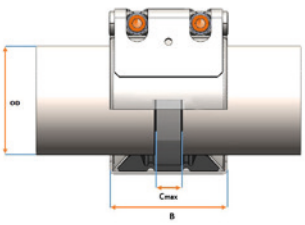
Remark:

For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory

Attention:

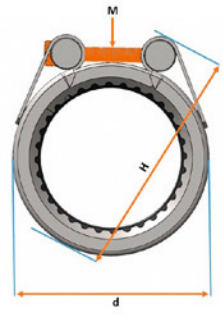
- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

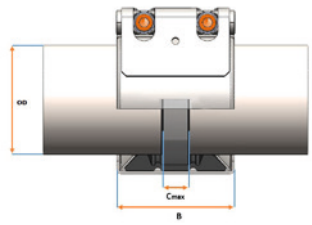




OD nominal (mm) (mm)	EPDM Code	Weight (kg)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
247 - 260	**779 750 927**	6.5	6	10	247	260	298	140	324
312 - 325	**779 750 929**	8.6	6	10	312	325	363	142	389







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

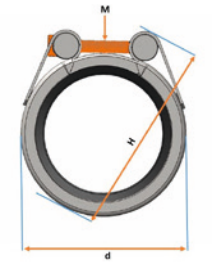
Attention:

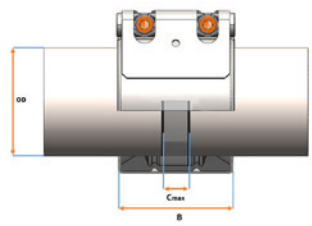
- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

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:

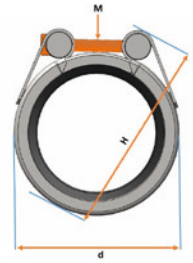
For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory

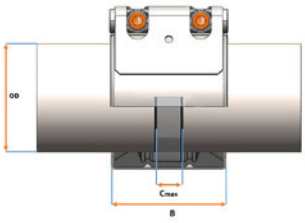
Attention:

- **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

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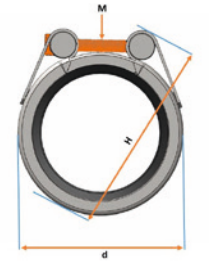


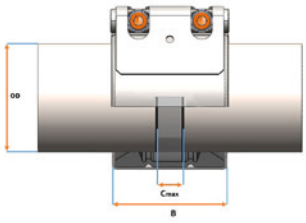


OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
88.0 - 96.0	**779 812 014**	**779 809 014**	1.0
97.0 - 105.0	**779 812 015**	**779 809 015**	1.1
104.0 - 112.0	**779 812 016**	**779 809 016**	1.1
112.0 - 120.0	**779 812 017**	**779 809 017**	1.2
122.0 - 130.0	**779 812 018**	**779 809 018**	1.2
129.0 - 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

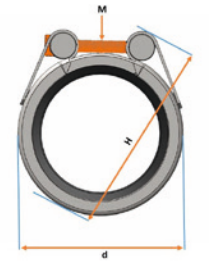
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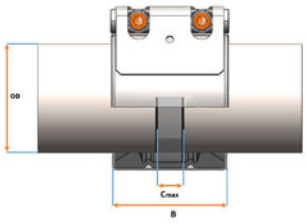




OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
488.0 - 501.0	16	25	488	501	539	146	565
600.0 - 613.0	16	25	600	613	655	146	683
700.0 - 713.0	16	25	700	713	755	146	783
732.0 - 745.0	16	25	732	745	787	146	815







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:

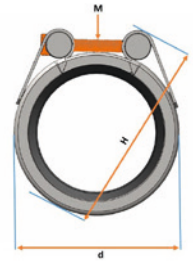
For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory

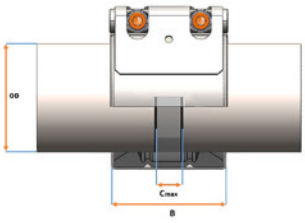
Attention:

- **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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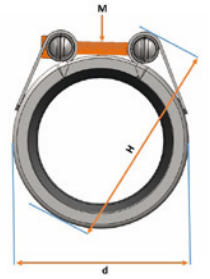


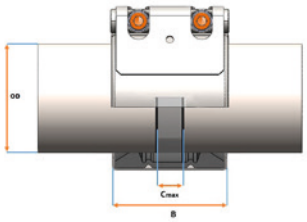
OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
503 - 516	**779 864 149**	**779 862 149**	11.2
520 - 533	**779 864 150**		
531 - 544	**779 864 151**	**779 862 151**	11.7
546 - 559	**779 864 152**		
557 - 570	**779 864 153**		
571 - 584	**779 864 154**		
600 - 613	**779 864 155**		
610 - 623	**779 864 156**		
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

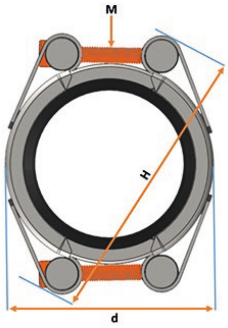
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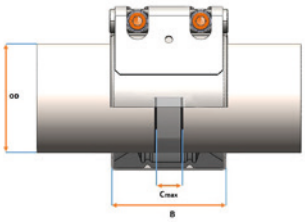
- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

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

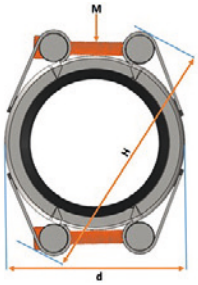
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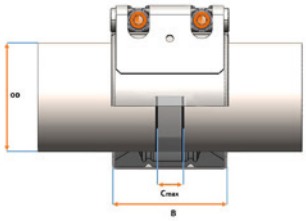
- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

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

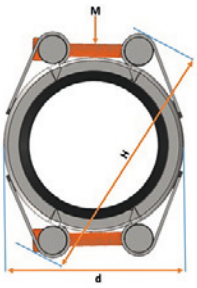
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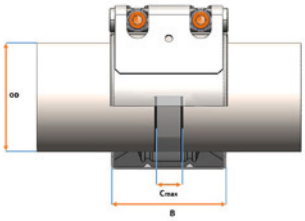
- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

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:

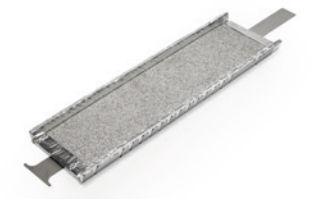
- Suitable for PE and PVC pipes
- Stainless steel A2 quality (AISI 304), optional A4 quality (AISI 316)
- For pipe sizes > d355 use an insert stiffener with wedge
- Other pipe sizes < d355 available on request

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:

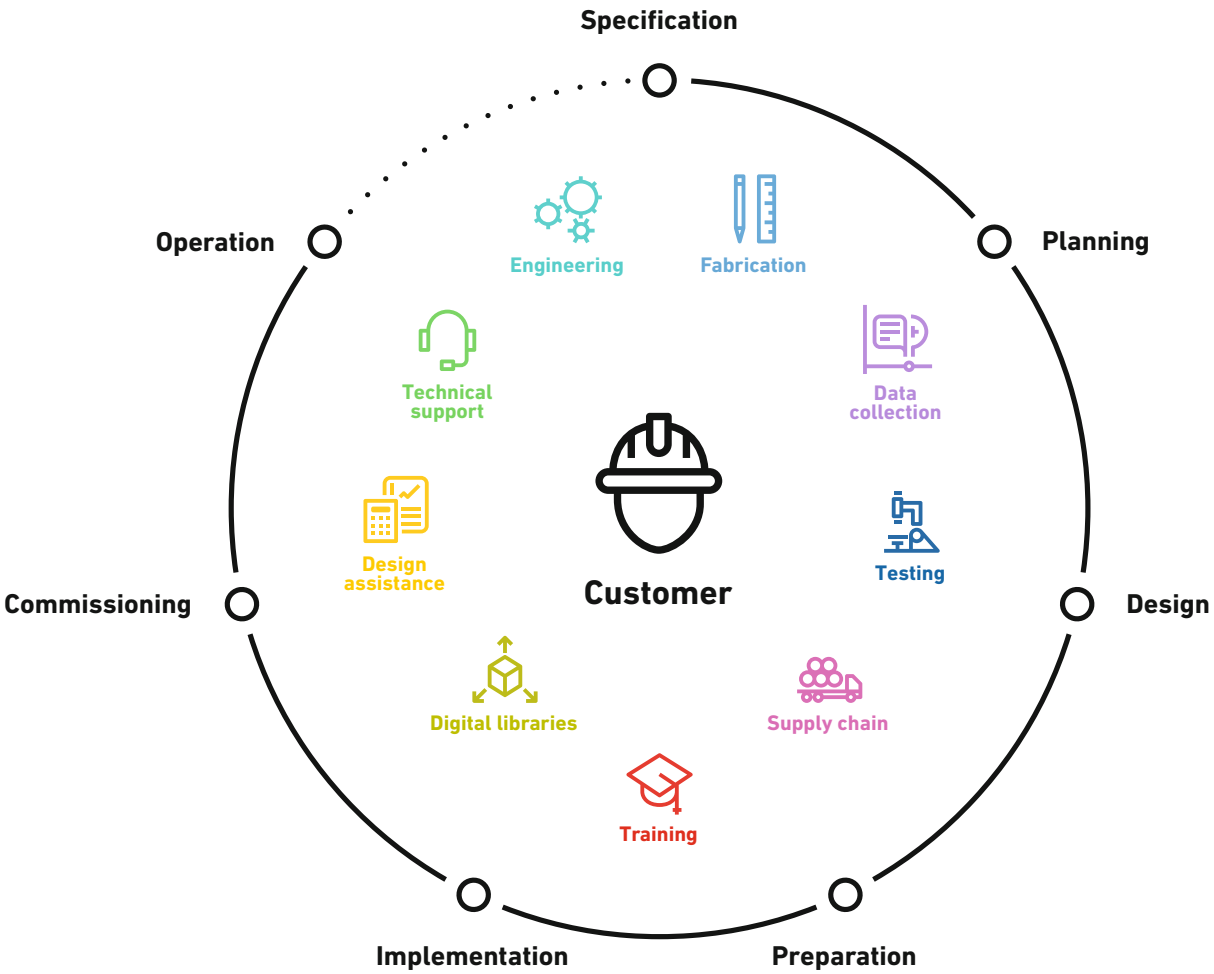
- For convenient assembling of the UNI-Rep couplings we recommend to use a plier
- The plier uses the bores in the housing in order to close the coupling
- In case of bigger diameter (>300mm) use a fitting belt



Code	Weight (kg)	OD min (mm)	OD max. (mm)
779 245 000	1.5	36	238

One partner from planning to commissioning

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Next steps

In this brochure, you have received the most important information and technical details. But nothing replaces a personal conversation with an expert from GF Piping Systems. It is all about your needs and how we can support you in your daily business challenges. If you have not already done so, make an appointment today.

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More information at
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1140.080	110, 111
1140.100	110, 111
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1300.400	111
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1300.560	111
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1300.720	111
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1320.320	112
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