

+GF+

GF Piping Systems

# Embrace the cold

COOL-FIT 4.0



# Confident insulation

**Efficient cooling processes are characterized by reliable installations and no maintenance times, zero system interruptions, and no energy loss. Choosing the right piping system can have a significant impact on these factors.**

Cooling systems for industrial refrigeration, process cooling and HVAC consume large amounts of energy to maintain a constant system temperature. Selecting the appropriate piping system to support the cooling circuit is of utmost importance for operators who aim for an efficient and reliable cooling process. What should you consider in particular?

The two most important factors are the material and the insulation. With conventional metal installations, the risk of condensation and subsequent corrosion is exceptionally high. This risk also occurs to systems that have been post-insulated. The insulation material can be damaged during installation. Small gaps between the piping system and the insulation layer can occur and allow ice formation due to condensation and subsequent corrosion. In addition, post-insulation requires an extra work step.



**Non-corrosive materials and vapor sealed insulation are of utmost importance for reliable and efficient piping systems in cooling applications.**



# Extreme reliability

**The condensation and corrosion-free piping system for operations with no interruptions, zero maintenance, and highest efficiency.**



## System integrity

The complete product portfolio consists of pre-insulated pipes, fittings, valves, flexible hoses, and all tools necessary for a safe and reliable installation.



## Efficient

High grade pre-insulation enhances energy efficiency (by 30%) with huge impact on costs and the planet's energy consumption.



## Reliable and safe

Maintenance-free operation for safe production with plastic construction providing a 25-year minimum lifespan.



#### Corrosion-free

100% corrosion-free and longer lasting than metal alternatives. No incrustation for reliable long-term efficient operation, ensures safe and reliable precision cooling.



#### Fast and easy

Simple jointing with electrofusion and system-specific tools.



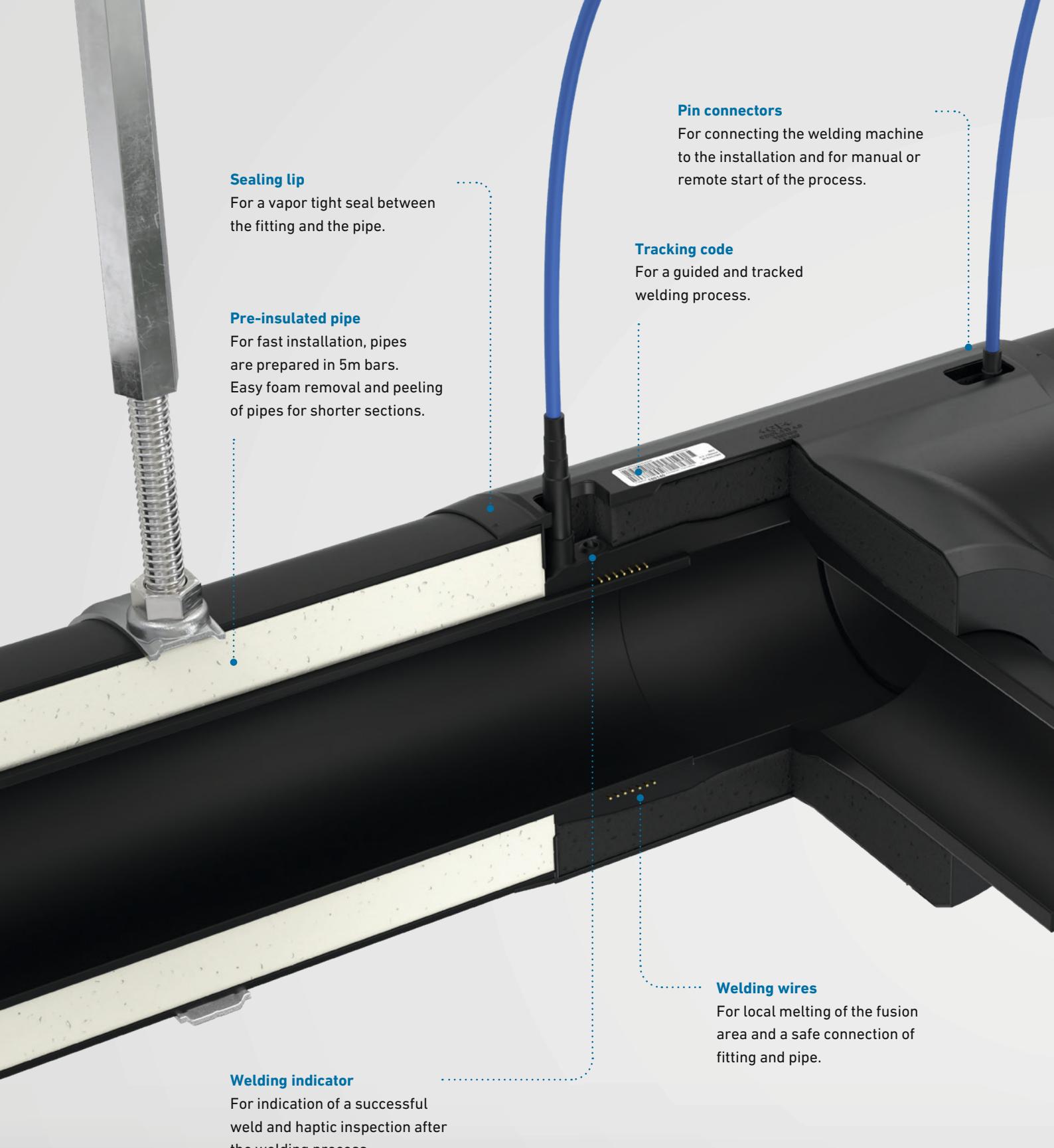
#### Lightweight

60% less weight than steel pipes per meter, allowing single-person installs.



#### Industry specific

Small and large diameters specifically focused on indoor and outdoor applications.



#### Pin connectors

For connecting the welding machine to the installation and for manual or remote start of the process.

#### Tracking code

For a guided and tracked welding process.

#### Sealing lip

For a vapor tight seal between the fitting and the pipe.

#### Pre-insulated pipe

For fast installation, pipes are prepared in 5m bars. Easy foam removal and peeling of pipes for shorter sections.

#### Welding indicator

For indication of a successful weld and haptic inspection after the welding process.

#### Welding wires

For local melting of the fusion area and a safe connection of fitting and pipe.

Learn how to make the perfect weld in the COOL-FIT video tutorial.

[gfps.com/cool-fit](http://gfps.com/cool-fit)



## Electrofusion

# Confident installation

**One of the most significant benefits of COOL-FIT is the safe, simple, and fast installation by electrofusion. This jointing technology allows jointing within seconds.**

In electrofusion, wires built into the fitting are locally heated through electric current, which causes the melting and fusion of the surrounding material. This joining technology ensures a secure and reliable connection. In combination

with a pre-insulated fitting with sealing lip, continuous insulation is also guaranteed. Once the components are assembled and secured against dislocation, the installation can be connected to the electrofusion unit. From there, the unit takes over and gives step-by-step instructions on the process. The fusion itself only takes seconds, and the welding indicator indicates its success. All welding data is stored on the welding device and is available for documenting the project.

# Extreme efficiency

**COOL-FIT leads the way when it comes to energy-efficient cooling and helps you to work in a more environmentally friendly and energy-efficient manner.**

The number of air conditioners in Europe will double by 2030, which leaves our industries with the challenge of rising energy demand. As a company that is active worldwide, it is GF Piping Systems' mission to show our commitment to sustainability by supporting our customers' success with innovative, energy-saving solutions making the collective global footprint more sustainable.

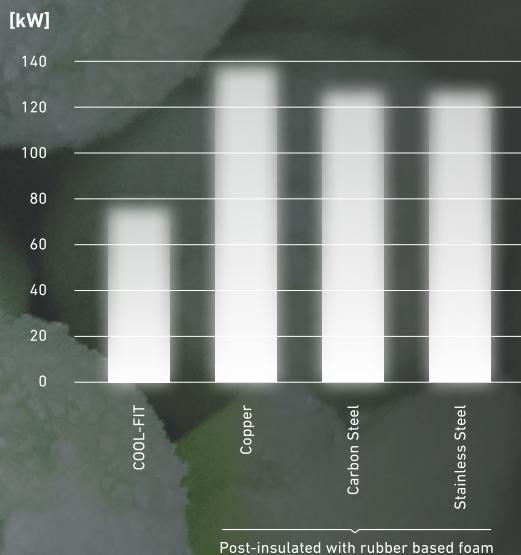
#### **COOL-FIT environmental benefits**

- Saves at least 30% of energy compared to traditional cooling systems, drastically reducing operating costs and CO<sub>2</sub> emissions.
- Non-corrosive, with at least 25-year lifetime leading to additionally saved resources related to maintenance, repairs and replacements.
- Helps achieve relevant green building declarations like DGNB, BREEAM, and LEED.
- Free of HBCD, halogens and halogenated blowing agents. It contains no chlorinated paraffins and neither lead nor tin.
- Contains no other substance of very high concern according to the REACH criteria of the European Chemicals Agency or any candidate substance.
- Strict quality management (ISO 9001) and health and safety management (OHSAS 18001) during production. GF Piping Systems is certified according to ISO 14001 for its environmental management system.

## COOL-FIT for the environment

**COOL-FIT helps to reduce the environmental impact of your cooling- and refrigeration application.**

Compared to post-insulated metal systems, COOL-FIT is considerably more environmentally friendly and helps for operations to be more energy-efficient. For example: a cold store uses 1500 meters of piping to transport liquid for the cooling system. COOL-FIT releases about 100 tons carbon dioxide less than a metal system during production and operation. This saving is equivalent to a journey of 446'000 kilometers by car.



# 30%

energy savings compared to traditional cooling systems, drastically reducing operating costs and CO<sub>2</sub> emissions.

Innovation

# Ultimate flexibility

To expand the COOL-FIT product portfolio, we worked with a team of experienced engineers and industry experts to deliver high-quality products and services that meet the ever-evolving needs of the global market. Our innovations strive for improving energy efficiency, reducing environmental impact, and optimizing system performance.

## Branch off with complete integrity

The COOL-FIT Weld-in port enhances the capabilities of the COOL-FIT piping system by simplifying the installation of additional sensors and branches across multiple pipe sizes.





## **+ Flexible planning**

Easier project planning due to significantly increased flexibility with Weld-in port solution.

## **+ Efficient installation**

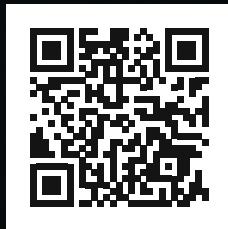
Fast and easy installation in just 15 minutes, thereby reducing on-site work and labor costs.

## **+ Lower risk**

Less failures with one fitting per branch size with a standardized install process, suitable for COOL-FIT pipes for d63 – d225.

## **+ Compact design**

Designed with end customers mind, less space required. Ideal for new and retrofit projects.



Learn more about the  
COOL-FIT Weld-in port  
[www.gfps.com/coolfit](http://www.gfps.com/coolfit)

# Complete system integrity

With COOL-FIT, GF Piping Systems offers a unique, top-notch piping system solution, including pre-insulated pipes, fittings, valves, flexible hoses, and tools. The system is available in a standard version or with a higher fire classification (COOL-FIT 4.0F), to withstand even harsher conditions.



## Pre-insulated pipes

Easy to join and install, lightweight pre-insulated pipes help to minimize energy loss and reduce long-term running costs. Insulated with high-energy efficient foam, they are ideal for both new construction and retrofitting.



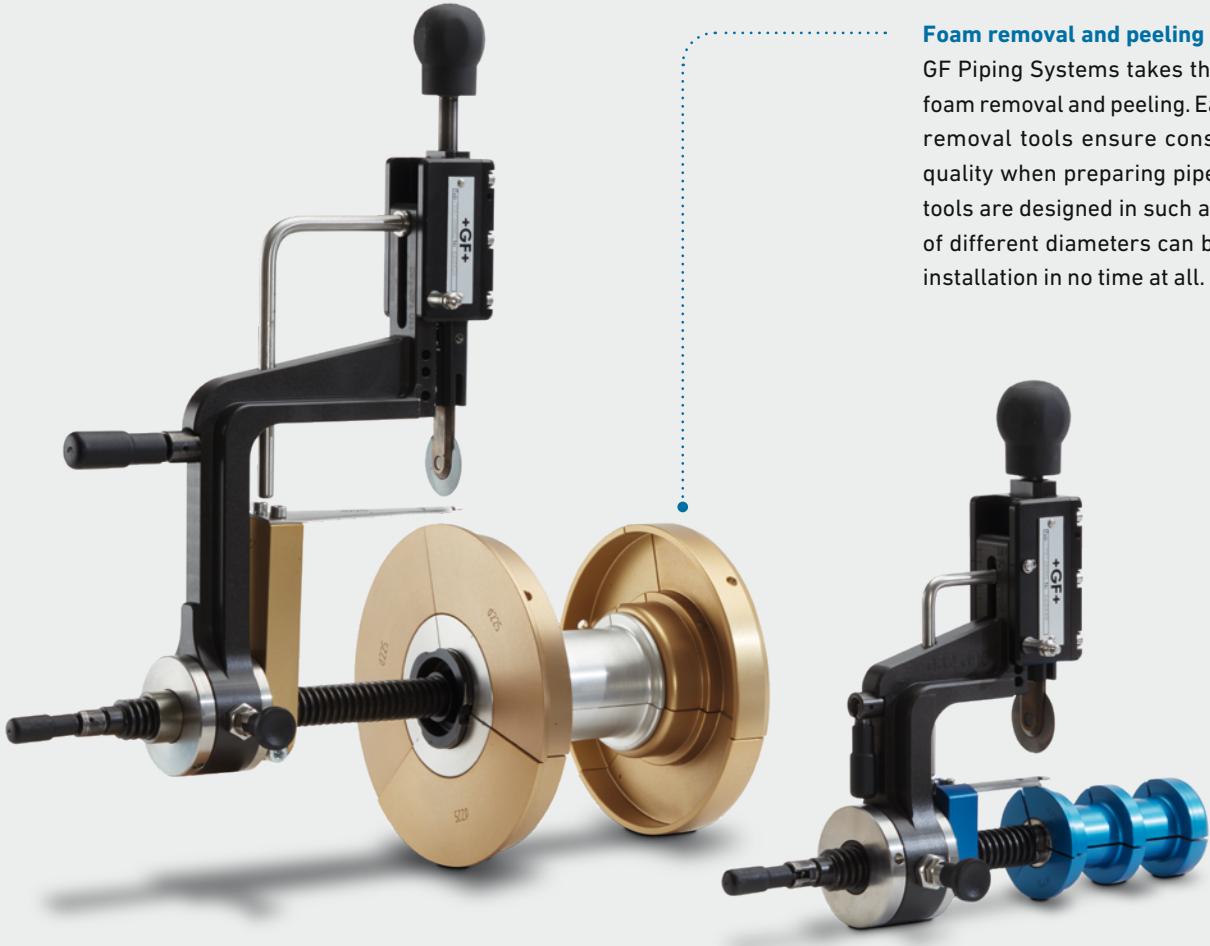
## Pre-insulated valves

GF Piping Systems' pre-insulated valves are an integral part of the COOL-FIT system and ensure an efficient cooling process. Pre-insulated valves ensure that the entire piping system is thoroughly insulated and perfectly sealed.



## Pre-insulated fittings

When creating branch lines, pre-insulated tee fittings make installation much easier. The fittings cover multiple dimension possibilities including various reductions.



#### Foam removal and peeling tools

GF Piping Systems takes the hassle out of foam removal and peeling. Easy to use foam removal tools ensure consistent peeling quality when preparing pipe surfaces. The tools are designed in such a way that pipes of different diameters can be prepared for installation in no time at all.

## System properties

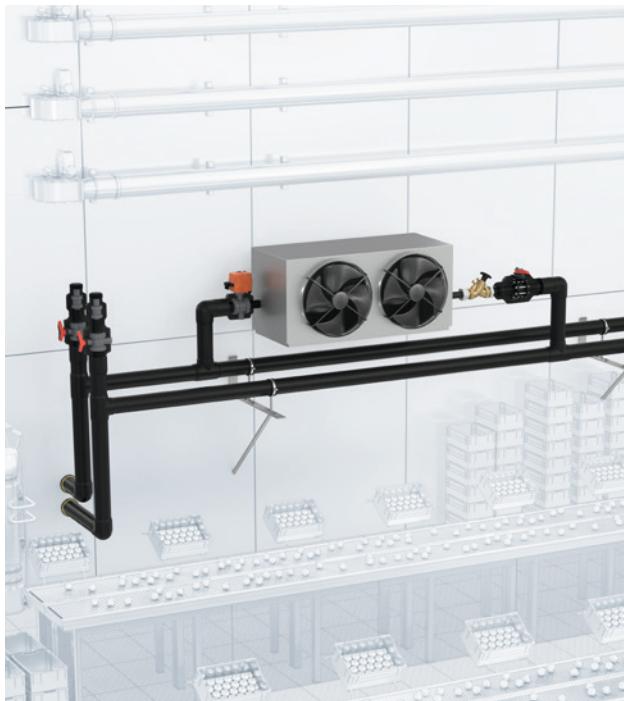
	COOL-FIT 4.0	COOL-FIT 4.0F
<b>Materials *</b>	Medium pipe PE100  Insulation GF HE foam, halogen-free, closed-cell  Outer jacket Pipe: HDPE, Fitting: GF-HE	PE100  GF HE foam, halogen-free, closed-cell  Flame retardant - GF-FR
<b>Dimensions</b>	d32 mm (DN25) – d450 mm (DN450)	d160mm (DN150) - d225mm (DN200)
<b>Connection technology</b>	Electrofusion	Electrofusion
<b>Nominal pressure</b>	16 bar, SDR 11  10 bar, SDR 17	d32 DN25 – d450 DN450  d160 DN150 – d450 DN450  –  d160 DN150 + d225 DN200
<b>Insulation</b>	Thermal conductivity $\lambda$ at 20°C  Density Foam cell size Nominal thickness	$\leq 0.022 \text{ W/mK}$ (d32 – d110), $\leq 0.026 \text{ W/mK}$ (d160 – d450)  $\geq 70 \text{ kg/m}^3$ max. Ø 0.5 mm 40 mm
<b>Temperature</b>	Medium – 50 °C to +60 °C	– 50 °C to +60 °C
<b>Weight (without medium)</b>	Pipe d32 mm 1.39 kg/m  Pipe d225 mm 16.42 kg/m	19.84 kg/m
<b>Environment</b>	Resistance Ozone Depletion Potential (ODP)	Moisture- and vapor-tight Zero
<b>Standards</b>	EN ISO 15494  ISO 7  EN ISO 16135, EN ISO 16138	Plastic piping systems for industrial applications – Metric series  Fittings  Industrial valves
<b>Fire classification</b>	EN 13501-1	E  B-s2, d0

\* All three materials are firmly bonded together.

# Commercial and industrial refrigeration

COOL-FIT 4.0 optimizes any commercial or industrial refrigeration set-up in food and beverage applications and improves your HVAC installation.





#### Food and beverage production

During the manufacturing and processing of food and beverages, reliable cooling is essential for production that is both faultlessly hygienic and economically efficient.



#### Cold stores

In cold stores, system reliability determines the preservation of the stock and the economic foundation of the company.



#### Wineries and breweries

Corrosion resistance is particularly vital in cooling processes of beverage production because of the constant use of water and liquid primary products.



#### Outdoor installation

Parts of cooling and refrigeration systems are often relocated outdoors and on roofs, e.g. Data Centers. Thanks to COOL-FIT 4.0's lightweight and robustness, rooftop installations are compatible with the statics of buildings and the installation is weatherproof, and resistant to UV radiation.

## References

### Reliable systems for sustainable processes – approved by the markets

At GF Piping Systems, we use cutting-edge technology designed for versatile use in cooling applications. It combines corrosion and maintenance-free components with a reliable and efficient factory pre-insulated system. We've successfully delivered more than 500 customer projects in multiple industries and installed more than 500,000 kilometers of COOL-FIT pipe globally.



#### Bischofszell Nahrungsmittel AG, Bischofszell, Switzerland

The Swiss Bischofszell Nahrungsmittel (BINA) is a leading manufacturer of convenience and fruit products as well as instant meals and beverages for retailers, industry, bulk consumers, and export. Its operation poses the highest demands on the cooling system – to keep the cooling chain of the foods intact at all times, pipes carry a glycol mixture. With the COOL-FIT 4.0 system . the food manufacturer has now modernized its cooling system during ongoing operation.



### Zonzo Estate - The Yarra Valley, Yarra Glen, Australia

In late 2019, the business embarked on an ambitious project to convert an empty warehouse into its brand-new winery, born from a simple aspiration to bring friends the best drop possible. The cooling circuit, custom-designed for the project, uses a mixture of glycol and water, circulating at a temperature of  $-5^{\circ}\text{C}$  and 4 bar of pressure, and is supported by 200 kW of chiller capacity. The glycol circuit is the main pipe run for the winery production for white and red wine. Thanks to the pre-insulated piping, it looks beautiful and has incredible energy efficiency, with minimal transfer and energy loss.



### Erusbacher & Paul, Villmergen, Switzerland

The Erusbacher & Paul brewery, founded in 2000 and based in Villmergen, has eight employees who produce a total of 16 different types of beer and about 6,000 hectoliters of beer each year. The company was looking for an efficient, hygienic, and visually appealing pipe cooling system for its new building. The pre-insulated COOL-FIT system from GF Piping Systems won the company over, thanks to its fast and simple installation, robustness, and ease of cleaning. An additional advantage, discovered during operation, was that condensation did not form at any point. The brewery is currently cooled using around 30% less energy.



### Porta Samedan Shopping Center, Samedan, Switzerland

The Porta Samedan shopping center in the Swiss Alps was built with a focus on sustainability, which is why the country's largest retailer chose COOL-FIT for its air conditioning system. The center includes a variety of shops, including the Migros supermarket, which need to be cooled and heated to accommodate the growing number of visitors. The pre-insulated piping system COOL-FIT also appealed to the installers, with quick implementation thanks to its light weight and easy to use electrofusion jointing technology, ensuring a fast and smooth construction period. With one third lower emissions caused by the maintenance-free COOL-FIT system, the retailer is sure to pursue a more sustainable future, while providing an uninterrupted offering to its visitors.



### Champinter Soc. Cooperativa, Villamalea, Spain

The Spanish mushroom production and processing cooperative Champinter was looking to expand its facilities and needed a new piping system for its plant – one which met the strict temperature and humidity requirements of high-quality mushroom cultivation. The COOL-FIT system not only meets all the technical requirements for stable growing conditions; it has also reduced costs for the customer at both ends. The plastic piping made installation as quick and cost-efficient as possible, eliminating the need for welding, insulation and mechanical protection. In addition, the durability and reliability of the energy-efficient COOL-FIT system radically reduces maintenance costs, resulting in substantial customer savings over the long term.



# One partner from planning to commissioning

**With Specialized Solutions, GF Piping Systems supports the design and installation of state of the art plastic piping systems, so that owners and planners can concentrate on their daily business without interruption. GF Piping Systems is present every step of the way, from providing planning support on new projects to testing the condition of old systems.**

More information at  
[gfps.com/specialized-solutions](http://gfps.com/specialized-solutions)



## Custom Product Design and Prefabrication

Having your individual needs and application in focus, our customizing teams forge the solution that fits you best, developing custom-made parts to complete systems or special solutions produced in small series, individual consulting and off-site prefabrication. Through our global network of flexible locations, we offer a wide range of comprehensive solutions. Tailored innovation, inspired by you.



## Digital Libraries

The libraries cover three key areas for designing, creating, and maintaining a project: Building Information Modeling, the Plant Design Software, and the CAD Library helping you reduce costs and construction times while ensuring design accuracy and integrity. Reduce time and effort while ensuring design accuracy and integrity.



## Engineering

Increase the efficiency of your project with tailor-made analysis packages from GF Piping Systems. Minimize project risks by diminishing incorrect calculations or wrong material selection. Rely on GF's experience in fast project implementation and choose our durable, safe, and reliable piping systems delivery. Established knowledge, guiding you through.

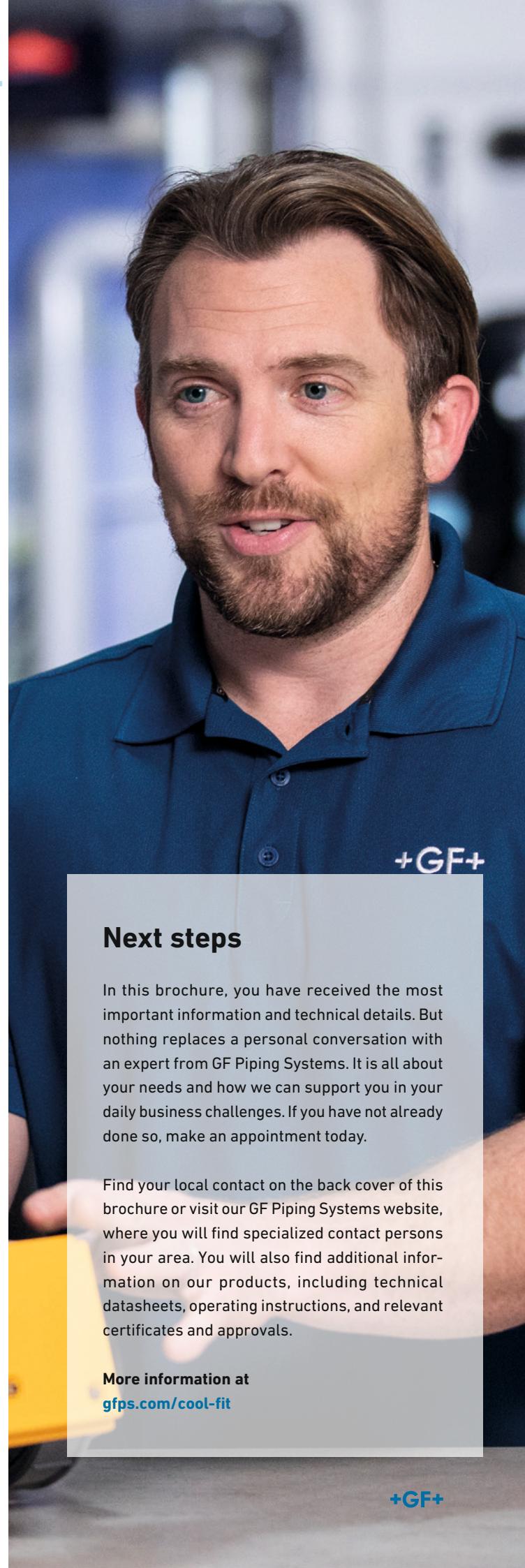


## Cooling Tool-Box

The cooling calculation tool from GF Piping Systems supports the dimensioning and design of the secondary circuit. The cooling calculation tool includes calculation functions for expansion/ contraction, energy saving, surface temperatures, pipe dimensioning, pressure losses, CO<sub>2</sub> footprint, and many more.

Use the online calculator

[gfps.com/cooling-tools](http://gfps.com/cooling-tools)



## 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.

Find your local contact on the back cover of this brochure or visit our GF Piping Systems website, where you will find specialized contact persons in your area. You will also find additional information on our products, including technical datasheets, operating instructions, and relevant certificates and approvals.

More information at

[gfps.com/cool-fit](http://gfps.com/cool-fit)

Product range

# COOL-FIT 4.0



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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

d (mm)	D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg/m)	closest inch (inch)	di (mm)	L (mm)	L1 (mm)
32	90	25	11	16	738 173 108	1.411	1	26.2	5000	36
40	110	32	11	16	738 173 109	2.054	1 1/4	32.6	5000	40
50	110	40	11	16	738 173 110	2.221	1 1/2	40.8	5000	44
63	125	50	11	16	738 173 111	2.987	2	51.4	5000	48
75	140	65	11	16	738 173 112	3.757	2 1/2	61.4	5000	55
90	160	80	11	16	738 173 113	4.819	3	73.6	5000	62
110	180	100	11	16	738 173 114	6.200	4	90.0	5000	72
140	225	125	11	16	738 173 116	9.676	5	114.6	5000	84
160	250	150	17	10	738 173 117	9.921	6	141.0	5000	90
225	315	200	17	10	738 173 120	16.620	8	198.2	5000	110
250	355	250	17	10	738 173 021	18.180	10	220.4	5900	123
280	400	250	17	10	738 173 022	22.640	10	246.8	5900	126
315	450	300	17	10	738 173 023	28.510	12	277.6	5900	133
355	500	350	17	10	738 173 024	35.350	14	312.8	5900	148
400	560	400	17	10	738 173 125	44.070	16	352.6	5900	150
450	630	450	17	10	738 173 126	55.490	18	396.6	5900	165



**COOL-FIT 4.0 Pipe**  
**d160-d450 SDR17 11.9m length**

**Model:**

- Pre-insulated PE100 SDR 17 metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- Length: 11.9m
- With free ends for electrofusion

**Note:**

Consider transport and handling possibilities  
Make to order



d (mm)	D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg/m)	closest inch (inch)	di (mm)	L (mm)	L1 (mm)
160	250	150	17	10	738 173 187	9.921	6	141.0	11900	90
225	315	200	17	10	738 173 190	16.620	8	198.2	11900	110
250	355	250	17	10	738 173 191	18.180	10	220.4	11900	123
280	400	250	17	10	738 173 192	22.640	10	246.8	11900	126
315	450	300	17	10	738 173 193	28.510	12	277.6	11900	133
355	500	350	17	10	738 173 194	35.350	14	312.8	11900	148
400	560	400	17	10	738 173 195	44.070	16	352.6	11900	150
450	630	450	17	10	738 173 196	55.490	18	396.6	11900	165

## COOL-FIT 4.0 Pipe d160-d450 SDR11

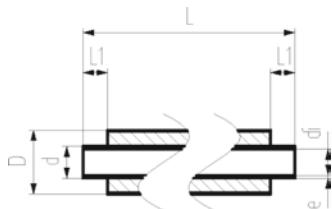


### Model:

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

### Note:

Make to order



d (mm)	D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg/m)	closest inch (inch)	di (mm)	L (mm)	L1 (mm)
160	250	150	11	16	738 173 267	12.213	6	130.8	5000	90
225	315	200	11	16	738 173 270	21.169	8	184.0	5000	110
250	355	250	11	16	738 173 271	24.681	10	204.6	5900	123
280	400	250	11	16	738 173 272	31.731	10	229.2	5900	126
315	450	300	11	16	738 173 273	39.333	12	257.8	5900	133
355	500	350	11	16	738 173 274	49.614	14	290.6	5900	148
400	560	400	11	16	738 173 275	62.811	16	327.4	5900	150
450	630	450	11	16	738 173 276	76.431	18	368.2	5900	165

## COOL-FIT 4.0 Pipe d160-d450 SDR11 11.9m length



### Model:

- Pre-insulated PE100 SDR11 metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- Length: 11.9m
- With free ends for electrofusion

### Note:

Consider transport and handling possibilities  
Make to order



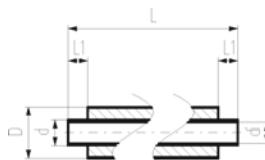
d (mm)	D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg/m)	closest inch (inch)	di (mm)	L (mm)	L1 (mm)
160	250	150	11	16	738 173 287	12.213	6	130.8	11900	90
225	315	200	11	16	738 173 290	21.169	8	184.0	11900	110
250	355	250	11	16	738 173 291	24.681	10	204.6	11900	123
280	400	250	11	16	738 173 292	31.731	10	229.2	11900	126
315	450	300	11	16	738 173 293	39.333	12	257.8	11900	133
355	500	350	11	16	738 173 294	49.614	14	290.6	11900	148
400	560	400	11	16	738 173 295	62.811	16	327.4	11900	150
450	630	450	11	16	738 173 296	76.431	18	368.2	11900	165

## COOL-FIT 4.0F Pipe Fire retardant



### Model:

- Pre-insulated PE100 SDR 17 metric
- Insulation made from GF HE foam
- Fire retardant jacket. Color: black
- With free ends for electrofusion



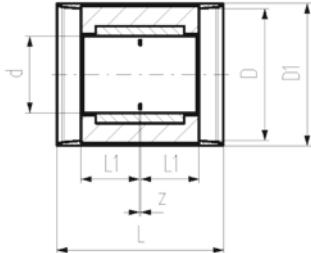
d (mm)	D (mm)	DN (mm)	SDR	PN (bar)	Code	closest inch (inch)	di (mm)	L (mm)	L1 (mm)
160	250	150	17	10	738 173 317	6	141.0	5000	90
225	315	200	17	10	738 173 320	8	198.2	5000	110



### 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



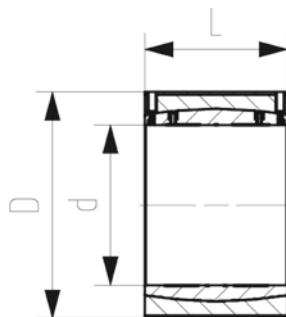
d (mm)	D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
32	90	25	11	16	738 913 108	0.179	97	127	36	5
40	110	32	11	16	738 913 109	0.129	117	133	40	3
50	110	40	11	16	738 913 110	0.169	117	141	44	3
63	125	50	11	16	738 913 111	0.240	132	149	48	3
75	140	65	11	16	738 913 112	0.520	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



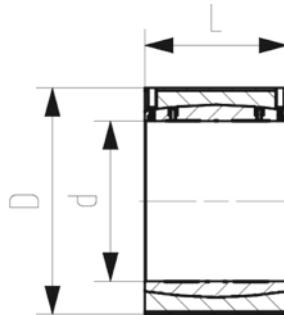
### COOL-FIT 4.0 Coupler d250-d450, SDR11

#### Model:

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

#### Note:

Make to order



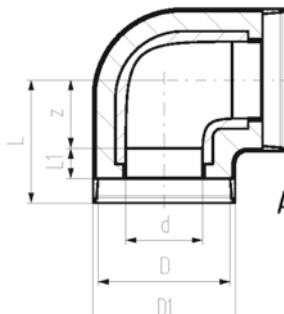
d (mm)	D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)
250	355	250	11	16	<b>738 913 271</b>	6.352	247
280	400	250	11	16	<b>738 913 272</b>	9.910	252
315	450	300	11	16	<b>738 913 273</b>	11.150	267
355	500	350	11	16	<b>738 913 274</b>	17.356	290
400	560	400	11	16	<b>738 913 275</b>	23.770	294
450	630	450	11	16	<b>738 913 276</b>	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



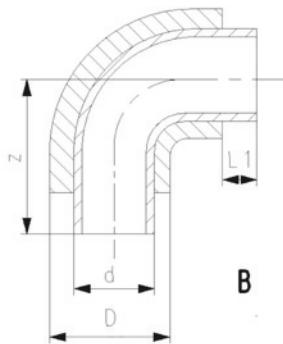
d (mm)	D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	D1 (mm)	L (mm)	L1 (mm)	Type	z (mm)
32	90	25	11	16	<b>738 103 108</b>	0.255	97	81	36	A	20
40	110	32	11	16	<b>738 103 109</b>	0.177	117	88	40	A	23
50	110	40	11	16	<b>738 103 110</b>	0.250	117	99	44	A	30
63	125	50	11	16	<b>738 103 111</b>	0.372	132	107	48	A	34
75	140	65	11	16	<b>738 103 112</b>	0.800	147	120	55	A	40
90	160	80	11	16	<b>738 103 113</b>	1.500	168	150	62	A	63
110	180	100	11	16	<b>738 103 114</b>	1.950	188	174	72	A	77
140	225	125	11	16	<b>738 103 116</b>	3.707	233	196	84	A	87
160	250	150	11	16	<b>738 103 117</b>	5.200	258	220	90	A	105
225	315	200	11	16	<b>738 103 120</b>	12.400	324	345	110	A	210



### 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)



d (mm)	D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L1 (mm)	Type	z (mm)
250	355	250	17	10	738 003 121	11.800	123	B	375
280	400	250	17	10	738 003 122	16.560	126	B	430
315	450	300	17	10	738 003 123	28.800	133	B	470
355	500	350	17	10	738 003 124	25.000	148	B	900
400	560	400	17	10	738 003 175	59.640	150	B	980
450	630	450	17	10	738 003 176	79.200	165	B	1070



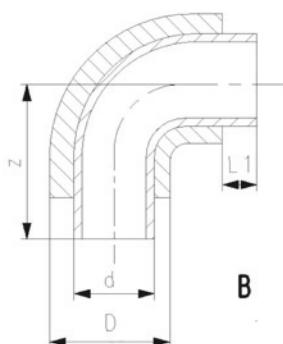
### COOL-FIT 4.0 Bend 90° d250-d450, SDR11

**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:**

Make to order



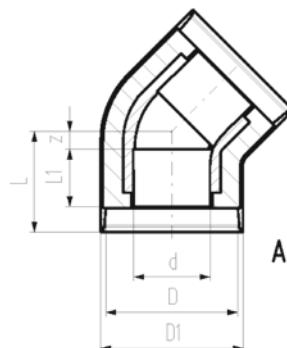
d (mm)	D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L1 (mm)	Type	z (mm)
250	355	250	11	16	738 003 271	11.900	123	B	375
280	400	250	11	16	738 003 272	18.252	126	B	430
315	450	300	11	16	738 003 273	28.750	133	B	470
355	500	350	11	16	738 003 274	65.000	148	B	900
400	560	400	11	16	738 003 275	81.840	150	B	980
450	630	450	11	16	738 003 276	109.900	165	B	1070



**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



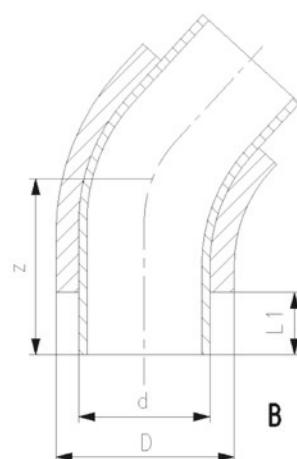
d (mm)	D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	D1 (mm)	L (mm)	L1 (mm)	Type	z (mm)
32	90	25	11	16	738 153 108	0.108	97	72	36	A	11
40	110	32	11	16	738 153 109	0.162	117	76	40	A	11
50	110	40	11	16	738 153 110	0.218	117	82	44	A	13
63	125	50	11	16	738 153 111	0.315	132	89	48	A	16
75	140	65	11	16	738 153 112	0.650	147	98	55	A	18
90	160	80	11	16	738 153 113	1.030	168	117	62	A	30
110	180	100	11	16	738 153 114	1.270	188	138	72	A	41
140	225	125	11	16	738 153 116	2.958	233	157	84	A	48
160	250	150	11	16	738 153 117	4.100	258	161	90	A	46
225	315	200	11	16	738 153 120	17.603	324	278	110	A	143



**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)



d (mm)	D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L1 (mm)	Type	z (mm)
250	355	250	17	10	738 053 121	12.840	123	B	440
280	400	250	17	10	738 053 122	18.000	126	B	460
315	450	300	17	10	738 053 123	21.360	133	B	535
355	500	350	17	10	738 053 124	18.720	148	B	620
400	560	400	17	10	738 053 175	43.920	150	B	650
450	630	450	17	10	738 053 176	54.360	165	B	680

## COOL-FIT 4.0 Bend 45° d250-d450, SDR11



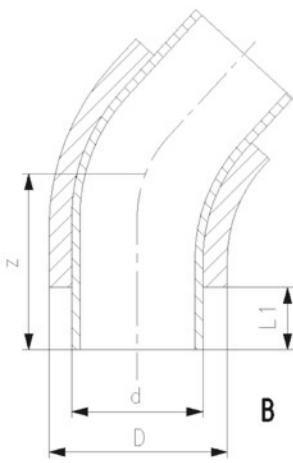
### Model:

- 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:

Make to order

d (mm)	D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L1 (mm)	Type	z (mm)
250	355	250	11	16	738 053 271	15.150	123	B	440
280	400	250	11	16	738 053 272	25.000	126	B	460
315	450	300	11	16	738 053 273	28.490	133	B	535
355	500	350	11	16	738 053 274	46.380	148	B	620
400	560	400	11	16	738 053 275	55.820	150	B	650
450	630	450	11	16	738 053 276	78.860	165	B	680

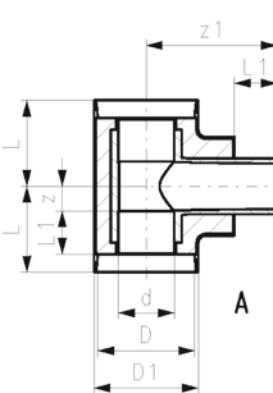


## COOL-FIT 4.0 T90° equal d32-d225



### 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)	Type	z (mm)	z1 (mm)
32	90	25	11	16	738 203 108	0.161	97	79	36	A	18	118.0
40	110	32	11	16	738 203 109	0.257	117	87	40	A	22	132.0
50	110	40	11	16	738 203 110	0.342	117	94	44	A	25	138.0
63	125	50	11	16	738 203 111	0.514	132	103	48	A	30	154.0
75	140	65	11	16	738 203 112	1.000	147	116	55	A	36	168.0
90	160	80	11	16	738 203 113	1.400	168	130	62	A	43	187.0
110	180	100	11	16	738 203 114	2.500	188	154	72	A	57	207.0
140	225	125	11	16	738 203 116	4.627	233	175	84	A	66	257.3
160	250	150	11	16	738 203 117	5.600	258	192	90	A	77	263.0
225	315	200	11	16	738 203 120	16.748	324	355	110	A	220	337.0



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

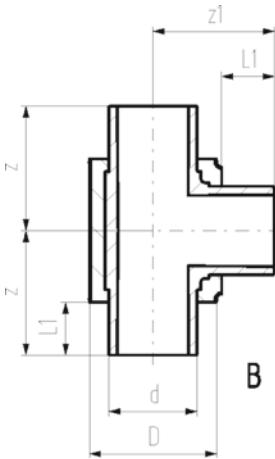
**Model:**

- 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:**

Make to order

d (mm)	D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L1 (mm)	Type	z (mm)	z1 (mm)
250	355	250	11	16	<b>738 203 271</b>	16.100	123	B	500	500
280	400	250	11	16	<b>738 203 272</b>	27.620	126	B	500	500
315	450	300	11	16	<b>738 203 273</b>	29.650	133	B	500	500
355	500	350	11	16	<b>738 203 274</b>	43.400	148	B	650	700
400	560	400	11	16	<b>738 203 275</b>	59.700	150	B	650	700
450	630	450	11	16	<b>738 203 276</b>	91.200	165	B	700	750



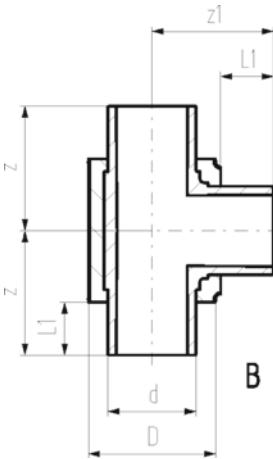


## COOL-FIT 4.0 T90° equal d250-d450

## 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)

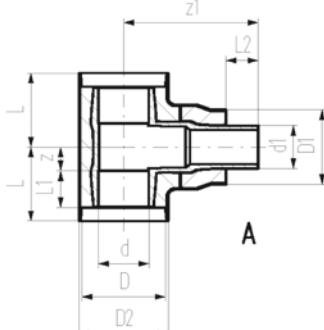
d (mm)	D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L1 (mm)	Type	z (mm)	z1 (mm)
250	355	250	17	10	<b>738 203 121</b>	12.000	123	B	500	500
280	400	250	17	10	<b>738 203 122</b>	22.300	126	B	500	500
315	450	300	17	10	<b>738 203 123</b>	21.480	133	B	500	500
355	500	350	17	10	<b>738 203 124</b>	30.600	148	B	650	700
400	560	400	17	10	<b>738 203 175</b>	42.000	150	B	650	700
450	630	450	17	10	<b>738 203 176</b>	67.200	165	B	700	750



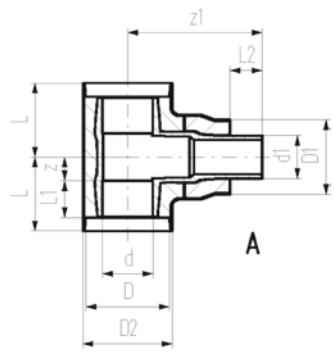
## **COOL-FIT 4.0 T90° reduced d75 – d225**

## 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



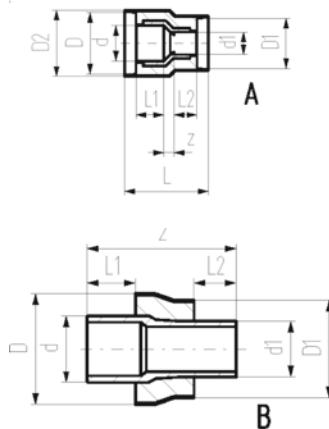
d (mm)	d1 (mm)	D (mm)	D1 (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)
75	63	140	125	65	11	16	738 203 218	0.863
90	63	160	125	80	11	16	738 203 222	1.232
90	75	160	140	80	11	16	738 203 223	1.293
110	63	180	125	100	11	16	738 203 227	1.972
110	75	180	140	100	11	16	738 203 228	1.949
110	90	180	160	100	11	16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



<b>d</b> (mm)	<b>d1</b> (mm)	<b>D</b> (mm)	<b>D1</b> (mm)	<b>DN</b> (mm)	<b>SDR</b>	<b>PN</b> (bar)	<b>Code</b>	<b>Weight</b> (kg)
225	110	315	180	200	11	16	<b>738 203 267</b>	16.805
225	140	315	225	200	11	16	<b>738 203 268</b>	18.909
225	140	315	200	200	11	16	<b>738 204 268</b>	17.100
225	160	315	250	200	11	16	<b>738 203 269</b>	18.500

<b>d</b> (mm)	<b>d1</b> (mm)	<b>D2</b> (mm)	<b>L</b> (mm)	<b>L1</b> (mm)	<b>L2</b> (mm)	<b>Type</b>	<b>z</b> (mm)	<b>z1</b> (mm)
75	63	147	116	55	48	A	36	228.0
90	63	168	130	62	48	A	43	253.0
90	75	168	130	62	55	A	43	252.0
110	63	188	154	72	48	A	57	267.0
110	75	188	154	72	55	A	57	268.0
110	90	188	154	72	62	A	57	268.0
140	63	233	175	84	48	A	66	221.0
140	75	233	175	84	55	A	66	231.0
140	90	233	175	84	62	A	66	234.0
140	110	233	175	84	72	A	66	243.0
160	63	258	192	90	48	A	77	221.0
160	90	258	192	90	62	A	77	235.0
160	110	258	192	90	72	A	77	245.0
160	140	258	192	90	84	A	77	256.1
160	140	258	192	90	84	A	77	340.0
225	63	324	355	110	48	A	220	412.0
225	90	324	355	110	62	A	220	412.0
225	110	324	355	110	72	A	220	412.0
225	140	324	355	110	84	A	220	413.0
225	140	324	335	110	84	A	220	412.0
225	160	324	355	110	90	A	220	396.0

## COOL-FIT 4.0 Reducer d32-d225

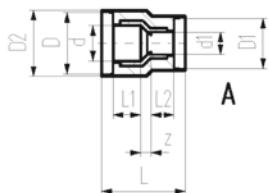


### Model:

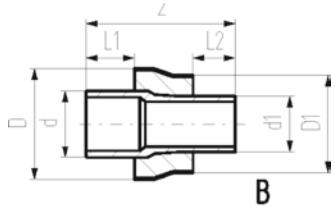
- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a water and vapour tight sealing
- B: Spigot Fitting with free end
- 738 904 351 and 738 904 368 for direct transitions from COOL-FIT 4.0 to COOL-FIT 2.0

d (mm)	d1 (mm)	D (mm)	D1 (mm)	DN	SDR	PN (bar)	Code	Weight (kg)
40	32	110	90	32	11	16	<b>738 903 206</b>	0.250
50	32	110	90	40	11	16	<b>738 903 209</b>	0.280
50	40	110	110	40	11	16	<b>738 903 210</b>	0.320
63	32	125	90	50	11	16	<b>738 903 212</b>	0.217
63	40	125	110	50	11	16	<b>738 903 213</b>	0.232
63	50	125	110	50	11	16	<b>738 903 214</b>	0.243
75	63	140	125	65	11	16	<b>738 903 318</b>	0.264
90	63	160	125	80	11	16	<b>738 903 322</b>	0.387
90	75	160	140	80	11	16	<b>738 903 323</b>	0.416
110	63	180	125	100	11	16	<b>738 903 327</b>	0.566
110	75	180	140	100	11	16	<b>738 903 328</b>	0.577
110	90	180	160	100	11	16	<b>738 903 329</b>	0.644
140	63	225	125	125	11	16	<b>738 903 340</b>	1.118
140	75	225	140	125	11	16	<b>738 903 341</b>	1.202
140	90	225	160	125	11	16	<b>738 903 342</b>	1.251
140	110	225	180	125	11	16	<b>738 903 343</b>	1.271
160	63	250	125	150	11	16	<b>738 903 347</b>	1.298
160	90	250	160	150	11	16	<b>738 903 349</b>	1.323
160	110	250	180	150	11	16	<b>738 903 350</b>	1.362
160	140	250	225	150	11	16	<b>738 903 351</b>	1.845
160	140	250	200	150	11	16	<b>738 904 351</b>	1.664
225	63	315	125	200	11	16	<b>738 903 364</b>	2.960
225	90	315	160	200	11	16	<b>738 903 366</b>	3.018
225	110	315	180	200	11	16	<b>738 903 367</b>	3.079
225	140	315	225	200	11	16	<b>738 903 368</b>	3.443
225	140	315	200	200	11	16	<b>738 904 368</b>	3.172
225	160	315	250	200	11	16	<b>738 903 369</b>	3.550

d (mm)	d1 (mm)	D2 (mm)	L (mm)	L1 (mm)	L2 (mm)	Type	z (mm)
40	32	117	143	40	36	A	17
50	32	117	151	44	36	A	21
50	40	117	149	44	40	A	15
63	32	132	160	48	36	A	26
63	40	132	159	48	40	A	21
63	50	132	159	48	44	A	17
75	63			55	48	B	170
90	63			62	48	B	190
90	75			62	55	B	189
110	63			72	48	B	204
110	75			72	55	B	205
110	90			72	62	B	205
140	63			84	48	B	225
140	75			84	55	B	237
140	90			84	62	B	238
140	110			84	72	B	233
160	63			90	48	B	244
160	90			90	62	B	244
160	110			90	72	B	242
160	140			90	84	B	257
225	63			110	48	B	295



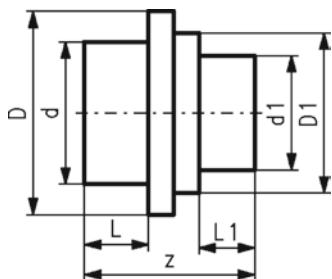
d (mm)	d1 (mm)	D2 (mm)	L (mm)	L1 (mm)	L2 (mm)	Type	z (mm)
225	90			110	62	B	295
225	110			110	72	B	295
225	140			110	84	B	296
225	140			110	84	B	296
225	160			110	90	B	279



### 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)



d (mm)	d1 (mm)	D (mm)	D1 (mm)	DN	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	Type	z (mm)
250	225	355	315	250	17	10	738 903 825	2.800	123	110	B	332
280	225	400	315	250	17	10	738 903 829	4.700	126	110	B	335
280	250	450	355	250	17	10	738 903 830	5.100	133	110	B	365
315	225	450	315	300	17	10	738 903 836	7.100	126	110	B	340
315	250	450	355	300	17	10	738 903 837	7.400	133	123	B	365
315	280	450	400	300	17	10	738 903 838	6.800	133	126	B	365
355	250	500	355	350	17	10	738 903 844	8.200	148	123	B	390
355	280	500	400	350	17	10	738 903 845	7.700	148	126	B	390
355	315	500	450	350	17	10	738 903 846	8.300	148	133	B	390
400	280	560	400	400	17	10	738 903 853	9.100	150	126	B	415
400	315	560	450	400	17	10	738 903 854	11.400	150	133	B	420
400	355	560	500	400	17	10	738 903 855	11.000	150	148	B	405
450	280	630	400	450	17	10	738 903 862	13.200	165	126	B	390
450	315	630	450	450	17	10	738 903 863	13.600	165	133	B	390
450	355	630	500	450	17	10	738 903 864	13.700	165	148	B	393
450	400	630	560	450	17	10	738 903 865	14.800	165	150	B	395



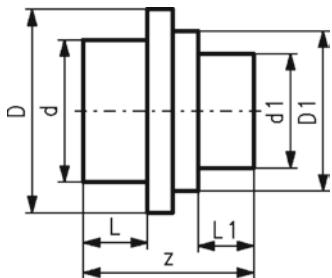
### COOL-FIT 4.0 Reducer d250-d450, SDR11

#### 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:

Make to order



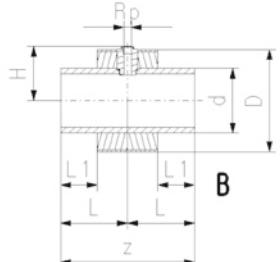
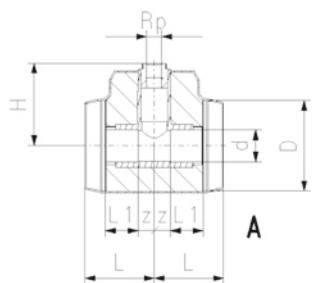
d (mm)	d1 (mm)	D (mm)	D1 (mm)	DN	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	Type	z (mm)
250	225	355	315	250	11	16	<b>738 903 925</b>	5.365	123	110	B	332
280	225	400	315	250	11	16	<b>738 903 929</b>	6.750	126	110	B	335
280	250	400	355	250	11	16	<b>738 903 930</b>	7.228	126	123	B	340
315	225	450	315	300	11	16	<b>738 903 936</b>	8.690	133	110	B	365
315	250	450	355	300	11	16	<b>738 903 937</b>	9.340	133	123	B	365
315	280	450	400	300	11	16	<b>738 903 939</b>	9.660	133	126	B	365
355	250	500	355	350	11	16	<b>738 903 944</b>	10.218	148	123	B	390
355	280	500	400	350	11	16	<b>738 903 945</b>	10.472	148	126	B	390
355	315	500	450	350	11	16	<b>738 903 946</b>	10.960	148	133	B	390
400	280	560	400	400	11	16	<b>738 903 953</b>	11.590	150	126	B	415
400	315	560	450	400	11	16	<b>738 903 954</b>	12.590	150	133	B	415
400	355	560	500	400	11	16	<b>738 903 955</b>	12.980	150	148	B	420
450	280	630	400	450	11	16	<b>738 903 962</b>	17.900	165	126	B	405
450	315	630	450	450	11	16	<b>738 903 963</b>	18.500	165	133	B	390
450	355	630	500	450	11	16	<b>738 903 964</b>	19.300	165	148	B	393
450	400	630	560	450	11	16	<b>738 903 965</b>	20.336	165	150	B	395



### 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



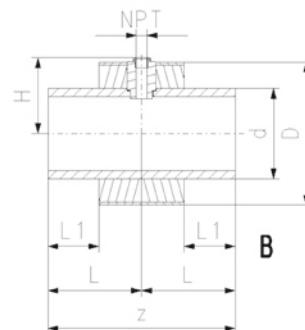
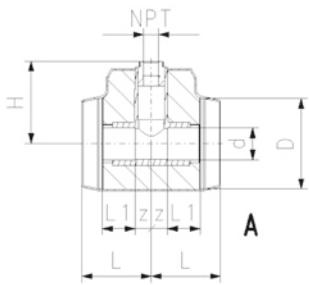
d (mm)	D (mm)	Thread Size	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	H (mm)	L (mm)	L1 (mm)	Type	z (mm)
32	90	Rp	1/2	25	11	16	738 313 608	0.169	95	79	36	A	18
40	110	Rp	1/2	32	11	16	738 313 609	0.267	105	87	40	A	22
40	110	Rp	3/4	32	11	16	738 313 659	0.269	108	87	40	A	22
50	110	Rp	1/2	40	11	16	738 313 610	0.354	107	94	44	A	25
50	110	Rp	3/4	40	11	16	738 313 660	0.356	110	94	44	A	25
63	125	Rp	1/2	50	11	16	738 313 611	0.537	120	103	48	A	30
63	125	Rp	3/4	50	11	16	738 313 661	0.539	123	103	48	A	30
75	140	Rp	1/2	65	11	16	738 313 612	0.773	127	116	55	A	36
75	140	Rp	3/4	65	11	16	738 313 662	0.774	130	116	55	A	36
90	160	Rp	1/2	80	11	16	738 313 613	1.164	139	130	62	A	43
90	160	Rp	3/4	80	11	16	738 313 663	1.165	142	130	62	A	43
110	180	Rp	1/2	100	11	16	738 313 614	1.944	151	154	72	A	57
110	180	Rp	3/4	100	11	16	738 313 664	1.944	154	154	72	A	57
140	225	Rp	1/2	125	11	16	738 313 616	3.974	187	175	84	A	66
140	225	Rp	3/4	125	11	16	738 313 666	3.964	190	175	84	A	66
160	250	Rp	1/2	150	11	16	738 313 617	2.496	134	165	90	B	330
160	250	Rp	3/4	150	11	16	738 313 667	2.489	134	165	90	B	330
225	315	Rp	1/2	200	11	16	738 313 620	5.155	166	185	110	B	370
225	315	Rp	3/4	200	11	16	738 313 670	5.146	169	185	110	B	370



### 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	Thread Type	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)
32	90	NPT		1/2	25	11	16	738 313 508	0.169
40	110	NPT		1/2	32	11	16	738 313 509	0.267
40	110	NPT		3/4	32	11	16	738 313 559	0.269
50	110	NPT		1/2	40	11	16	738 313 510	0.354
50	110	NPT		3/4	40	11	16	738 313 560	0.356
63	125	NPT		1/2	50	11	16	738 313 511	0.537
63	125	NPT		3/4	50	11	16	738 313 561	0.539
75	140	NPT		1/2	65	11	16	738 313 512	0.773
75	140	NPT		3/4	65	11	16	738 313 562	0.774
90	160	NPT		1/2	80	11	16	738 313 513	1.164
90	160	NPT		3/4	80	11	16	738 313 563	1.165
110	180	NPT		1/2	100	11	16	738 313 514	1.944
110	180	NPT		3/4	100	11	16	738 313 564	1.944
140	225	NPT		1/2	125	11	16	738 313 516	3.974
140	225	NPT		3/4	125	11	16	738 313 566	3.964
160	250	NPT		1/2	150	11	16	738 313 517	2.496
160	250	NPT		3/4	150	11	16	738 313 567	2.489
225	315	NPT		1/2	200	11	16	738 313 520	5.155
225	315	NPT		3/4	200	11	16	738 313 570	5.146

d (mm)	L (mm)	L1 (mm)	H (mm)	Type	z (mm)
32	79	36	95	A	18
40	87	40	105	A	22
40	87	40	108	A	22
50	94	44	107	A	25
50	94	44	110	A	25
63	103	48	120	A	30
63	103	48	123	A	30
75	116	55	127	A	36
75	116	55	130	A	36
90	130	62	139	A	43
90	130	62	142	A	43
110	154	72	151	A	57
110	154	72	154	A	57
140	175	84	187	A	66
140	175	84	190	A	66
160	165	90	134	B	330
160	165	90	134	B	330
225	185	110	166	B	370
225	185	110	169	B	370

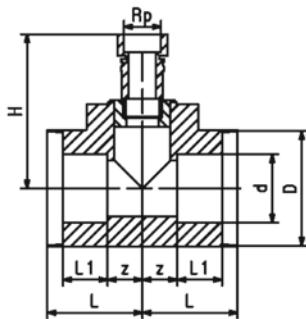
# COOL-FIT 4.0 Transition Fittings



**COOL-FIT 4.0 Transition Tee 90° 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



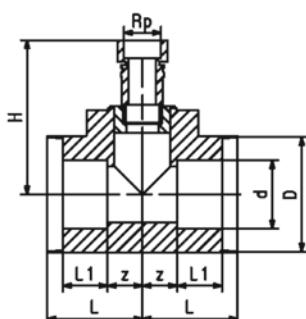
d (mm)	D (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	H (mm)	L (mm)	L1 (mm)	z (mm)
63	125	Rp	2	50	11	16	<b>738 953 061</b>	1.700	222	103	48	30
75	140	Rp	2	65	11	16	<b>738 953 062</b>	1.900	226	116	55	36
90	160	Rp	2	80	11	16	<b>738 953 063</b>	2.300	241	130	62	43
110	180	Rp	2	100	11	16	<b>738 953 064</b>	3.100	251	154	72	57
160	250	Rp	2	150	11	16	<b>738 953 067</b>	5.450	289	165	90	77
225	315	Rp	2	200	11	16	<b>738 953 070</b>	18.100	446	185	110	220
40	110	Rp	1	32	11	16	<b>738 953 159</b>	0.500	173	87	40	22
50	110	Rp	1	40	11	16	<b>738 953 160</b>	0.588	173	94	44	25
63	125	Rp	1	50	11	16	<b>738 953 161</b>	0.760	186	103	48	30
75	140	Rp	1	65	11	16	<b>738 953 162</b>	1.246	193	116	55	36
90	160	Rp	1	80	11	16	<b>738 953 163</b>	1.650	205	130	62	43
110	180	Rp	1	100	11	16	<b>738 953 164</b>	2.750	215	154	72	57
160	250	Rp	1	150	11	16	<b>738 953 167</b>	4.450	253	165	90	77
225	315	Rp	1	200	11	16	<b>738 953 170</b>	17.100	444	185	110	220



**COOL-FIT 4.0 Transition Tee 90° 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



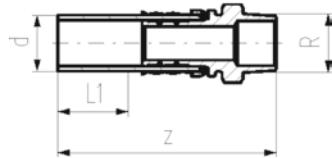
d (mm)	D (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	H (mm)	L (mm)	L1 (mm)	z (mm)
63	125	Rp	2	50	11	16	<b>738 943 061</b>	1.700	222	103	48	30
75	140	Rp	2	65	11	16	<b>738 943 062</b>	2.150	226	116	55	36
90	160	Rp	2	80	11	16	<b>738 943 063</b>	2.530	241	130	62	43
110	180	Rp	2	100	11	16	<b>738 943 064</b>	3.650	251	154	72	57
160	250	Rp	2	150	11	16	<b>738 943 067</b>	5.380	289	165	90	77
225	315	Rp	2	200	11	16	<b>738 943 070</b>	18.100	446	185	110	220
40	110	Rp	1	32	11	16	<b>738 943 159</b>	0.490	173	87	40	22
50	110	Rp	1	40	11	16	<b>738 943 160</b>	0.575	173	94	44	25
63	125	Rp	1	50	11	16	<b>738 943 161</b>	0.747	186	103	48	30
75	140	Rp	1	65	11	16	<b>738 943 162</b>	1.233	193	116	55	36
90	160	Rp	1	80	11	16	<b>738 943 163</b>	1.633	205	130	62	43
110	180	Rp	1	100	11	16	<b>738 943 164</b>	2.733	215	154	72	57
160	250	Rp	1	150	11	16	<b>738 943 167</b>	4.483	253	165	90	77
225	315	Rp	1	200	11	16	<b>738 943 170</b>	17.100	444	185	110	220



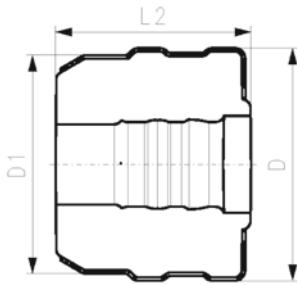
### COOL-FIT 4.0 Adaptor fitting PE/stainless steel With male thread R

#### 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



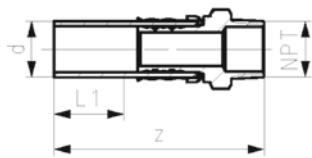
d (mm)	D (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	D1 (mm)	L1 (mm)	L2 (mm)	z (mm)
32	103	R	1/2	25	11	16	<b>738 943 508</b>	0.224	90	36	80	130
32	103	R	3/4	25	11	16	<b>738 943 518</b>	0.232	90	36	80	134
32	103	R	1	25	11	16	<b>738 943 528</b>	0.241	90	36	80	134
40	128	R	1 1/4	32	11	16	<b>738 943 509</b>	0.655	110	40	91	156
50	138	R	1 1/2	40	11	16	<b>738 943 510</b>	1.020	110	44	96	168
63	149	R	2	50	11	16	<b>738 943 511</b>	1.458	125	48	103	179



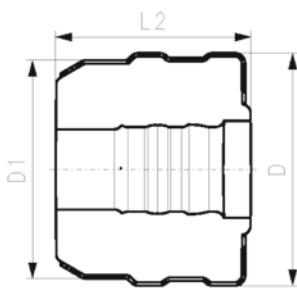
### COOL-FIT 4.0 Adaptor fitting PE/stainless steel with male thread NPT

#### 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	1/2	25	11	16	<b>738 943 808</b>	0.224	90	36	80	129
32	103	NPT	3/4	25	11	16	<b>738 943 818</b>	0.232	90	36	80	133
32	103	NPT	1	25	11	16	<b>738 943 828</b>	0.241	90	36	80	134
40	128	NPT	1 1/4	32	11	16	<b>738 943 809</b>	0.655	110	40	91	151
50	138	NPT	1 1/2	40	11	16	<b>738 943 810</b>	1.021	110	44	96	163
63	149	NPT	2	50	11	16	<b>738 943 811</b>	1.459	125	48	103	174

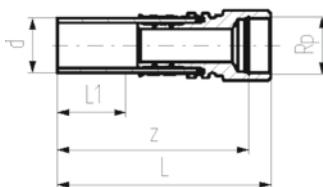




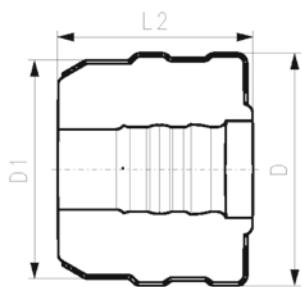
### COOL-FIT 4.0 Adaptor fitting PE/stainless steel With female thread Rp

#### 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



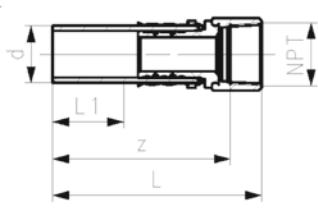
d (mm)	D (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	D1 (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)
32	104	Rp	1/2	25	11	16	738 943 008	0.247	90	132	36	101	118
32	104	Rp	3/4	25	11	16	738 943 018	0.272	90	132	36	101	116
32	104	Rp	1	25	11	16	738 943 028	0.297	90	132	36	101	115
40	128	Rp	1 1/4	32	11	16	738 943 009	0.683	110	157	40	91	141
50	138	Rp	1 1/2	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



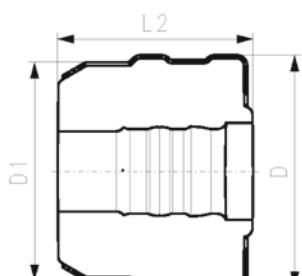
### COOL-FIT 4.0 Adaptor fitting PE/stainless steel With female thread NPT

#### 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	1/2	25	11	16	738 943 408	0.247	90	132	36	101	114
32	104	NPT	3/4	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 1/4	32	11	16	738 943 409	0.683	110	147	40	91	125
50	138	NPT	1 1/2	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

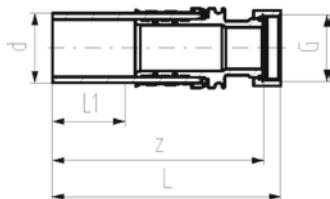




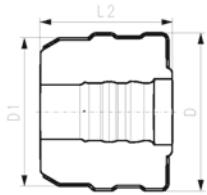
### COOL-FIT 4.0 Adaptor fitting PE/stainless steel With loose union nut G

#### 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



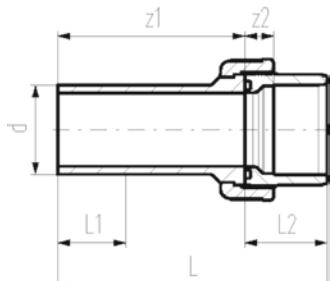
d (mm)	D (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	D1 (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)
32	104	G	1/2	25	11	16	738 943 308	0.250	90	133	36	101	126
32	104	G	3/4	25	11	16	738 943 318	0.264	90	135	36	101	129
32	104	G	1	25	11	16	738 943 328	0.296	90	135	36	101	129
40	128	G	1 1/4	32	11	16	738 943 309	0.595	110	155	40	91	148
40	128	G	1 1/2	32	11	16	738 943 319	0.655	110	157	40	91	148
50	138	G	1 1/2	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



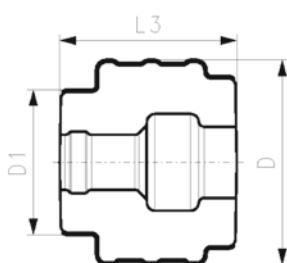
### COOL-FIT 4.0 Adaptor union PE/ABS

#### 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

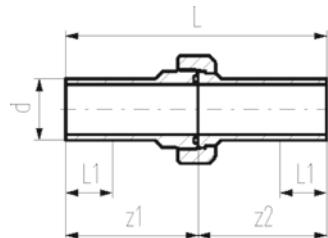




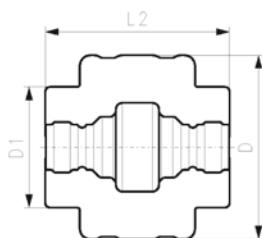
### COOL-FIT 4.0 Union PE/PE

#### 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



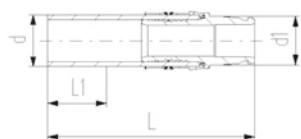
d (mm)	D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	D1 (mm)	L (mm)	L1 (mm)	L2 (mm)	z1 (mm)	z2 (mm)
32	139	25	11	16	<b>738 513 608</b>	0.223	90	211	36	139	107	104
40	153	32	11	16	<b>738 513 609</b>	0.363	110	234	40	158	118	116
50	165	40	11	16	<b>738 513 610</b>	0.468	110	247	44	163	124	123
63	185	50	11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



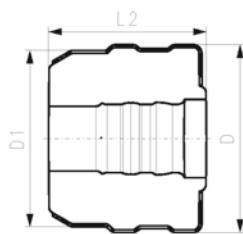
### COOL-FIT 4.0 Adaptor fitting PE/iFIT

#### 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	<b>738 943 108</b>	0.256	25-32	90	132	36	80



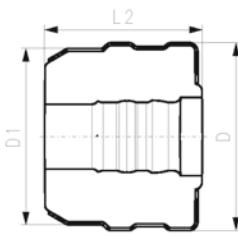
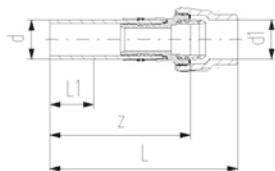


### COOL-FIT 4.0 Adaptor fitting PE/Sanipex MT

#### 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	<b>738 953 118</b>	0.476	32	90	174	36	101	135

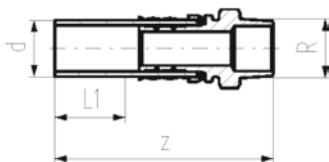


### COOL-FIT 2.0/4.0 Adaptor fitting PE/stainless steel With male thread R



#### Model:

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



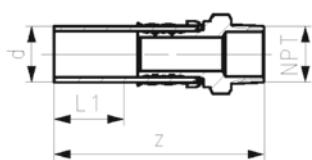
d (mm)	Thread Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L1 (mm)	z (mm)
32	R 1/2	25	11	16	<b>738 940 508</b>	0.179	36	130
32	R 3/4	25	11	16	<b>738 940 518</b>	0.187	36	134
32	R 1	25	11	16	<b>738 940 528</b>	0.196	36	134
40	R 1 1/4	32	11	16	<b>738 940 509</b>	0.572	40	156
50	R 1 1/2	40	11	16	<b>738 940 510</b>	0.927	44	168
63	R 2	50	11	16	<b>738 940 511</b>	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



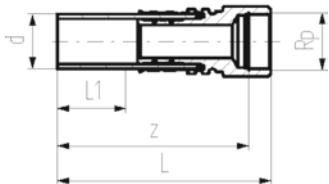
d (mm)	Thread Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)
32	NPT 1/2	25	11	16	<b>738 940 808</b>	0.179	132	36	118
32	NPT 3/4	25	11	16	<b>738 940 818</b>	0.187	132	36	116
32	NPT 1	25	11	16	<b>738 940 828</b>	0.196	132	36	115
40	NPT 1 1/4	32	11	16	<b>738 940 809</b>	0.572	157	40	141
50	NPT 1 1/2	40	11	16	<b>738 940 810</b>	0.927	150	44	128
63	NPT 2	50	11	16	<b>738 940 811</b>	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 female thread Rp
- Gasket: O-ring EPDM



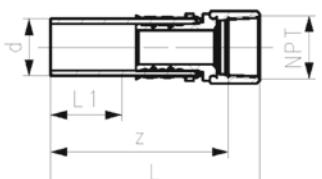
d (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)
32	Rp	½	25	11	16	738 940 008	0.183	132	36	118
32	Rp	¾	25	11	16	738 940 018	0.208	132	36	116
32	Rp	1	25	11	16	738 940 028	0.233	132	36	115
40	Rp	1 ¼	32	11	16	738 940 009	0.600	157	40	141
50	Rp	1 ½	40	11	16	738 940 010	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



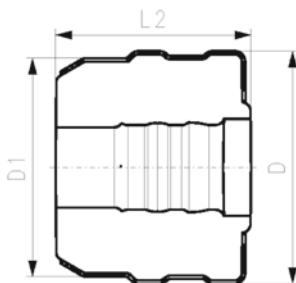
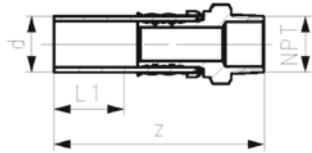
d (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)
32	NPT	½	25	11	16	738 940 408	0.183	132	36	114
32	NPT	¾	25	11	16	738 940 418	0.208	132	36	114
32	NPT	1	25	11	16	738 940 428	0.233	132	36	114
40	NPT	1 ¼	32	11	16	738 940 409	0.600	147	40	125
50	NPT	1 ½	40	11	16	738 940 410	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



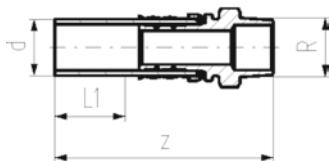
d (mm)	D (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	D1 (mm)	L1 (mm)	L2 (mm)	z (mm)
32	103	NPT	1/2	25	11	16	<b>738 943 808</b>	0.224	90	36	80	129
32	103	NPT	3/4	25	11	16	<b>738 943 818</b>	0.232	90	36	80	133
32	103	NPT	1	25	11	16	<b>738 943 828</b>	0.241	90	36	80	134
40	128	NPT	1 1/4	32	11	16	<b>738 943 809</b>	0.655	110	40	91	151
50	138	NPT	1 1/2	40	11	16	<b>738 943 810</b>	1.021	110	44	96	163
63	149	NPT	2	50	11	16	<b>738 943 811</b>	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



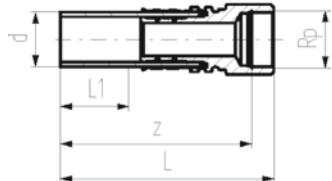
d (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L1 (mm)	z (mm)
32	R	1/2	25	11	16	<b>738 950 508</b>	0.188	36	130
32	R	3/4	25	11	16	<b>738 950 518</b>	0.196	36	134
32	R	1	25	11	16	<b>738 950 528</b>	0.206	36	134
40	R	1 1/4	32	11	16	<b>738 950 519</b>	0.608	40	156
50	R	1 1/2	40	11	16	<b>738 950 510</b>	0.986	44	168
63	R	2	50	11	16	<b>738 950 511</b>	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



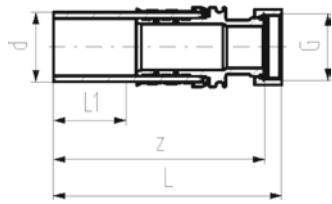
d (mm)	Thread	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)
32	Rp	1/2	25	11	16	738 950 008	0.192	132	36	118
32	Rp	5/8	25	11	16	738 950 018	0.219	132	36	116
32	Rp	1	25	11	16	738 950 028	0.246	132	36	115
40	Rp	1 1/4	32	11	16	738 950 019	0.641	157	40	141
50	Rp	1 1/2	40	11	16	738 950 010	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	5/8	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
32	G	1 1/4	25	11	16	738 950 338	0.301	137	36	131
40	G	1 1/4	32	11	16	738 950 309	0.543	155	40	148
40	G	1 1/2	32	11	16	738 950 319	0.607	157	40	148
50	G	1 1/2	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

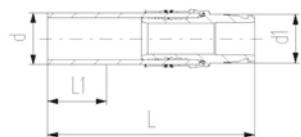
**COOL-FIT 2.0/4.0 Adaptor Fitting PE/iFIT**



**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



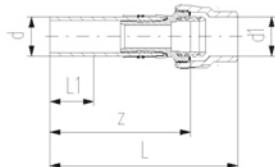
## COOL-FIT 2.0/4.0 Adaptor fitting PE/Sanipex MT



### 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	<b>738 950 118</b>	0.412	32	174	36	101	135



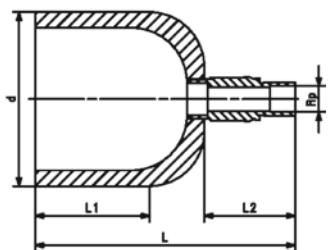
## COOL-FIT 2.0/4.0 Transition cap PE/brass With female thread Rp



### 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 1/2	25	11	16	<b>738 960 008</b>	0.200	107	36	69
40	Rp 1/2	32	11	16	<b>738 960 009</b>	0.210	113	40	73
50	Rp 1/2	40	11	16	<b>738 960 010</b>	0.250	117	44	73
63	Rp 1/2	50	11	16	<b>738 960 011</b>	0.300	121	48	73
75	Rp 1/2	65	11	16	<b>738 960 012</b>	0.400	128	55	73
90	Rp 1/2	80	11	16	<b>738 960 013</b>	0.476	135	62	73
110	Rp 1/2	100	11	16	<b>738 960 014</b>	0.695	145	72	73
140	Rp 1/2	125	11	16	<b>738 960 016</b>	0.954	209	84	73
160	Rp 1/2	150	11	16	<b>738 960 017</b>	1.300	193	90	73
225	Rp 1/2	200	11	16	<b>738 960 020</b>	2.532	221	110	73





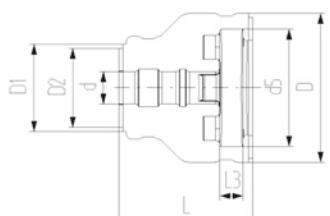
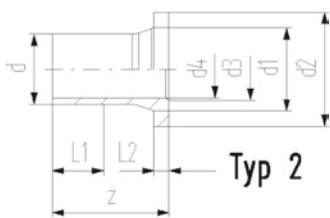
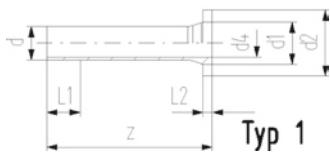
### COOL-FIT 2.0/4.0 Flange adaptor

#### Model:

- PE100 SDR11, metric
- Suitable for flange connections to metric and/or ANSI/ASME B16.5
- Gasket: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Type 1 without chamfer, Type 2 with chamfer
- Separate Fittings type A needed for joining

#### Note:

Backing ring and gasket not included

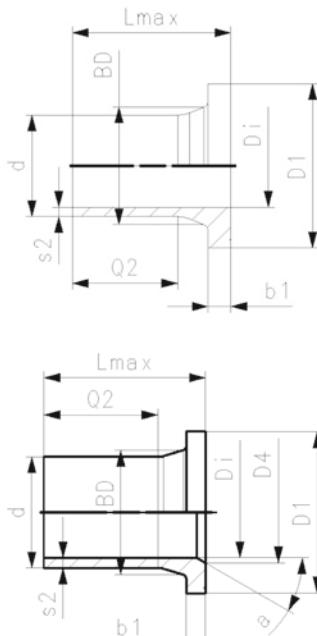


d (mm)	DN (mm)	SDR	PN	Code	Weight (kg)
32	25	11	16	<b>738 710 008</b>	0.320
32	25	11	16	<b>738 710 108</b>	0.320
40	32	11	16	<b>738 710 009</b>	0.480
40	32	11	16	<b>738 710 109</b>	0.480
50	40	11	16	<b>738 710 010</b>	0.620
50	40	11	16	<b>738 710 110</b>	0.620
63	50	11	16	<b>738 710 011</b>	0.910
75	65	11	16	<b>738 710 012</b>	1.220
90	80	11	16	<b>738 710 013</b>	1.650
90	80	11	16	<b>738 710 113</b>	1.650
110	100	11	16	<b>738 710 014</b>	2.390
140	125	11	16	<b>738 710 016</b>	3.660
160	150	11	16	<b>738 710 017</b>	4.800
225	200	11	16	<b>738 710 020</b>	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	Type
32	135	40	90	68			26	121	162	36	10	26	Metric	1
32	135	40	90	63	63		26	121	162	36	10	26	ANSI	1
40	170	50	110	78	90		32	146	165	40	11	28	Metric	1
40	170	50	110	73	73		32	146	165	40	11	28	ANSI	1
50	180	61	110	88	90		40	156	178	44	12	30	Metric	1
50	180	61	110	82	82		40	156	178	44	12	30	ANSI	1
63	200	75	125	102	110		51	171	230	48	14	32	Metric, ANSI	1
75	220	89	140	122	125		61	191	232	55	16	34	Metric, ANSI	2
90	240	105	160	138	140	78	73	206	245	62	17	35	Metric	2
90	240	105	160	133	133	78	73	206	245	62	17	35	ANSI	2
110	270	125	180	158	160	100	90	235	254	72	18	36	Metric, ANSI	2
140	300	155	225	188	200	127	127	256	299	84	25	38	Metric, ANSI	2
160	358	174	259	213	213	151	131	295	332	90	25	34	Metric, ANSI	2
225	423	233	325	268	268	209	184	354	383	110	32	37	Metric, ANSI	2

d (mm)	z (mm)
32	190
32	190
40	197
40	197
50	214
50	214
63	270
75	279
90	299
90	299
110	320
140	383
160	412
225	483

**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
- Suitable for plastic butterfly valves type **567/578/565** up to DN250. ecoFit Flang adapter SDR17 required for DN300 and above
- Suitable for metal butterfly valves type **038/039/044/065** up to DN250. ecoFit Flange adapter SDR17 is required for DN300 and above
- 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](http://gfps.com))

\* Machined / extended

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	<b>753 800 085</b>	0.107	90	88		62	3.0	12	61
63	55	A	50	<b>753 800 086</b>	0.168	106	102		70	3.8	14	75
75	66	A	65	<b>753 800 087</b>	0.260	130	122		75	4.5	16	89
90	79	A	80	<b>753 800 088</b>	0.367	140	138		103	5.4	17	105
110	96	A	100	<b>753 800 089</b>	0.571	160	158		117	6.6	18	125
125	110	B	100	<b>753 800 090</b>	0.684	170	158	114	125	7.4	25	132
140	123	B	125	<b>753 800 091</b>	1.035	200	188	127	147	8.3	25	155
160	141	B	150	<b>753 800 092</b>	1.342	200	212	151	147	9.5	25	175
180	158	A	150	<b>753 800 093</b>	1.469	200	212		170	10.7	30	180
200	176	B	200	<b>753 800 094</b>	2.212	200	268	203	128	11.9	32	232
225	198	B	200	<b>753 800 095</b>	2.456	200	268	210	138	13.4	32	235
250	220	B	250	<b>753 800 096</b>	3.500	220	320	245	148	14.8	35	285
280	246	B	250	<b>753 800 097</b>	3.780	230	320	265	154	16.6	35	291
315	277	B	300	<b>753 800 098</b>	5.470	242	370	300	166	18.7	36	335
355	310	B	350	<b>753 800 299</b>	7.100	260	430	346	170	21.1	33	373
400	350	B	400	<b>753 800 300</b>	9.600	282	482	395	185	23.7	36	427
450	400	A	500	<b>753 800 301</b>	16.400	316	585		205	26.7	46	514
500	400	A	500	<b>753 800 302</b>	18.500	337	585		220	29.7	46	530
560	493	A	600	<b>753 800 303</b>	26.940	370	685		250	33.2	50	616
630	555	A	600	<b>753 800 304</b>	44.260	390	685		270	37.4	50	644
*	710	626	A	<b>753 800 105</b>	39.400	425	800		325	42.1	50	737
*	800	705	A	<b>753 800 106</b>	50.800	465	905		360	47.4	52	840
*	900	793	A	<b>753 800 107</b>	64.300	490	1005		360	53.3	55	944
*	1000	881	A	<b>753 800 108</b>	79.500	530	1110		395	59.3	60	1047



## Flanges PP-Steel

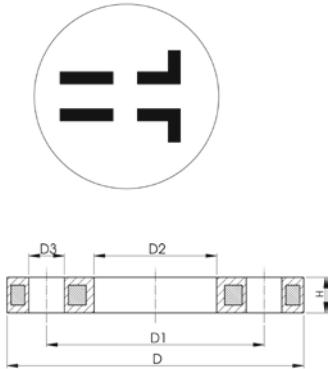
### Model:

- 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 D2024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

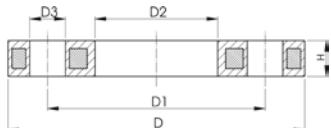
AL: number of holes

<sup>1)</sup> FM 1613 approved – 15 bar

<sup>2)</sup> Profiled loose flange

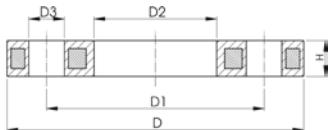


	d (mm)	DN (mm)	D (mm)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
	20	15	95	16	Metric	PN10	Butt/Socket	<b>727 700 206</b>	0.216
	20	15	95	16	ASME	class 150	Butt/Socket	<b>727 701 206</b>	0.213
	25	20	105	16	Metric	PN10	Butt/Socket	<b>727 700 207</b>	0.279
	25	20	105	16	ASME	class 150	Butt/Socket	<b>727 701 207</b>	0.260
	32	25	115	16	Metric	PN10	Butt/Socket	<b>727 700 208</b>	0.429
	32	25	115	16	ASME	class 150	Butt/Socket	<b>727 701 208</b>	0.416
	40	32	140	16	Metric	PN10	Butt/Socket	<b>727 700 209</b>	0.621
	40	32	140	16	ASME	class 150	Butt/Socket	<b>727 701 209</b>	0.730
	50	40	150	16	Metric	PN10	Butt/Socket	<b>727 700 210</b>	0.722
	50	40	150	16	ASME	class 150	Butt/Socket	<b>727 701 210</b>	0.809
	63	50	165	16	Metric	PN10	Butt/Socket	<b>727 700 211</b>	0.900
	63	50	165	16	ASME	class 150	Butt/Socket	<b>727 701 211</b>	0.866
	75	65	185	16	Metric	PN10	Butt/Socket	<b>727 700 212</b>	1.110
	75	65	185	16	ASME	class 150	Butt/Socket	<b>727 701 212</b>	1.117
1	90	80	200	16	Metric	PN10	Butt	<b>724 700 313</b>	1.390
	90	80	200	16	Metric	PN10	Socket	<b>727 700 213</b>	1.369
	90	80	200	16	Metric	PN10	Butt	<b>727 700 313</b>	1.390
	90	80	200	16	ASME	class 150	Socket	<b>727 701 213</b>	1.492
	90	80	200	16	ASME	class 150	Butt	<b>727 701 313</b>	1.499
1	110	100	223	16	Metric	PN10	Butt	<b>724 700 314</b>	1.407
	110	100	220	16	Metric	PN10	Socket	<b>727 700 214</b>	1.522
	110	100	220	16	Metric	PN10	Butt	<b>727 700 314</b>	1.407
	110	100	229	16	ASME	class 150	Socket	<b>727 701 214</b>	1.695
	110	100	229	16	ASME	class 150	Butt	<b>727 701 314</b>	1.739
1	125	100	223	16	Metric	PN10	Butt	<b>724 700 315</b>	1.408
	125	100	220	16	Metric	PN10	Butt	<b>727 700 315</b>	1.408
	125	125	250	16	Metric	PN10	Socket	<b>727 700 815</b>	2.475
1	140	125	250	16	Metric	PN10	Butt	<b>724 700 316</b>	2.300
	140	125	250	16	Metric	PN10	Butt	<b>727 700 716</b>	2.318
	140	125	250	16	Metric	PN10	Socket	<b>727 700 816</b>	2.033
1	160	150	285	16	Metric	PN10	Butt	<b>724 700 317</b>	3.500
	160	150	285	16	Metric/ASME	PN10/ class 150	Butt	<b>727 700 717</b>	3.491
	160	150	285	16	Metric/ASME	PN10/ class 150	Socket	<b>727 700 817</b>	3.167
1	180	150	285	16	Metric	PN10	Butt	<b>724 700 318</b>	3.100
	180	150	285	16	Metric/ASME	PN10	Butt	<b>727 700 718</b>	3.108
1, 2	200	200	344	16	Metric	PN16	Butt	<b>724 700 319</b>	3.549
	200	200	340	16	Metric/ASME	PN10/ class 150	Butt	<b>727 700 719</b>	5.600
	200	200	340	16	Metric/ASME	PN10/ class 150	Socket	<b>727 700 819</b>	6.143
1, 2	225	200	344	16	Metric	PN16	Butt	<b>724 700 320</b>	3.380
	225	200	340	16	Metric/ASME	PN10/ class 150	Butt	<b>727 700 720</b>	5.533
	225	200	340	16	Metric/ASME	PN10/ class 150	Socket	<b>727 700 820</b>	4.448
1, 2	250	250	410	16	Metric	PN16	Butt	<b>724 700 321</b>	6.390
	250	225	395	16	Metric	PN10	Socket	<b>727 700 031</b>	8.340
	250	250	395	16	Metric	PN10	Butt	<b>727 700 721</b>	6.632
	250	250	395	16	Metric	PN10	Socket	<b>727 700 821</b>	7.179
1, 2	280	250	410	16	Metric	PN16	Butt	<b>724 700 322</b>	6.310
	280	250	395	16	Metric	PN10	Butt	<b>727 700 722</b>	6.573
	280	250	395	16	Metric	PN10	Socket	<b>727 700 822</b>	5.547
1, 2	315	300	455	16	Metric	PN16	Butt	<b>724 700 323</b>	9.740



	<b>d</b> (mm)	<b>DN</b> (mm)	<b>D</b> (mm)	<b>PN</b> (bar)	<b>Standard</b>	<b>Bolt / circle</b>	<b>Design</b>	<b>Code</b>	<b>Weight</b> (kg)
	315	300	445	16	Metric	PN10	Butt	<b>727 700 723</b>	7.903
	315	300	445	16	Metric	PN10	Socket	<b>727 700 823</b>	6.980
	315	300	483	10	ASME	class 150	Butt	<b>727 701 322</b>	11.800
1, 2	355	350	521	16	Metric	PN16	Butt	<b>724 700 324</b>	15.203
	355	350	515	16	Metric	PN10	Butt	<b>727 700 724</b>	14.587
	355	350	515	16	Metric	PN10	Socket	<b>727 700 824</b>	12.465
	355	350	540	10	ASME	class 150	Butt	<b>727 701 323</b>	17.900
1, 2	400	400	582	16	Metric	PN16	Butt	<b>724 700 325</b>	20.600
	400	400	574	16	Metric	PN10	Butt	<b>727 700 725</b>	20.034
	400	400	574	16	Metric	PN10	Socket	<b>727 700 825</b>	17.607
	400	400	597	10	ASME	class 150	Butt	<b>727 701 324</b>	24.500
1, 2	450	500	685	10	Metric	PN10	Butt	<b>724 700 426</b>	25.600
1, 2	500	500	685	10	Metric	PN10	Butt	<b>724 700 427</b>	21.061
2	560	600	796	10	Metric	PN10	Butt	<b>724 700 428</b>	35.000
2	630	600	800	10	Metric	PN10	Butt	<b>724 700 429</b>	28.500
2	710	700	912	6	Metric	PN10	Butt	<b>724 700 430</b>	25.500
2	800	800	1026	6	Metric	PN10	Butt	<b>724 700 431</b>	39.300
2	900	900	1129	6	Metric	PN10	Butt	<b>724 700 432</b>	48.500
	250	250	406	10	ASME	class 150	Butt	<b>727 701 321</b>	6.000
	450	500	712	10	ASME	class 150	Butt	<b>727 701 325</b>	33.600

	<b>d</b> (mm)	<b>D1</b> (mm)	<b>D2</b> (mm)	<b>D3</b> (mm)	<b>H max.</b> (mm)	<b>AL</b>	<b>SC</b>
	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
1	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
1	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
1	125	180	135	18	20	8	M16
	125	180	135	18	20	8	M16
	125	210	150	18	26	8	M16
1	140	210	158	18	24	8	M16
	140	210	158	18	24	8	M16
	140	210	167	18	26	8	M16
1	160	240	178	22	28	8	M20
	160	240	178	22	24	8	M20
	160	240	190	22	26	8	M20
1	180	240	188	22	28	8	M20
	180	240	188	22	24	8	M20
1, 2	200	295	235	22	31	12	M20
	200	295	235	22	27	8	M20
	200	295	226	22	29	8	M20
1, 2	225	295	238	22	31	12	M20
	225	295	238	22	27	8	M20



	<b>d</b> (mm)	<b>D1</b> (mm)	<b>D2</b> (mm)	<b>D3</b> (mm)	<b>H max.</b> (mm)	<b>AL</b>	<b>SC</b>
	225	295	250	22	29	8	M20
1, 2	250	355	288	26	35	12	M24
	250	325	277	22	32	8	M20
	250	350	288	22	30	12	M20
	250	350	277	22	32	12	M20
1, 2	280	355	294	26	36	12	M24
	280	350	294	22	30	12	M20
	280	350	310	22	32	12	M20
1, 2	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
1, 2	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
1, 2	400	525	430	30	56	28	M27
	400	515	430	26	40	16	M24
	400	515	442	26	42	16	M24
	400	539	429	29	44	16	M27
1, 2	450	620	517	26	56	20	M24
1, 2	500	620	533	26	56	20	M24
2	560	725	618	30	68	20	M27
2	630	725	645	30	68	20	M27
2	710	840	740	30	49	24	M27
2	800	950	843	33	58	24	M30
2	900	1050	947	33	62	28	M30
	250	362	293	25	30	12	M24
	450	635	540	32	53	20	M30



### Profiled Backing Flanges Metal, Epoxy coated

#### Model:

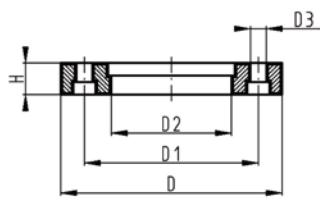
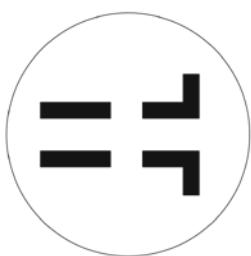
- Ductile iron (GGG 40), stoved epoxy (black, DIN30677)
- Metric: ISO 7005, EN 1092, ISO 9624

#### Note:

Flat side = bolt / washer side

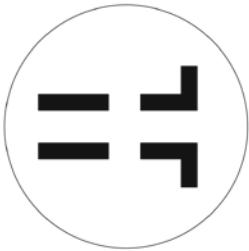
Profiled side = flange adaptor side (aligned with collar)

AL: number of holes

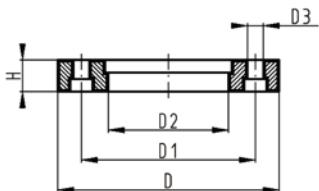


<b>d</b> (mm)	<b>DN</b> (mm)	<b>PN</b> (bar)	<b>Standard</b>	<b>Bolt / circle</b>	<b>Design</b>	<b>Code</b>	<b>Weight</b> (kg)
125	125	16	Metric	PN10	Butt	<b>701 474 386</b>	6.000
450	450	10	Metric	PN10	Butt	<b>724 705 026</b>	38.000
450	500	10	Metric	PN16	Butt	<b>724 705 326</b>	50.500
500	500	10	Metric	PN16	Butt	<b>724 705 327</b>	50.500
560	600	10	Metric	PN16	Butt	<b>724 705 328</b>	50.500
630	600	10	Metric	PN16	Butt	<b>724 705 329</b>	50.500
710	700	6	Metric	PN10	Butt	<b>724 705 130</b>	36.400
800	800	6	Metric	PN10	Butt	<b>724 705 131</b>	50.500
900	900	6	Metric	PN10	Butt	<b>724 705 132</b>	55.800
1000	1000	6	Metric	PN10	Butt	<b>724 705 133</b>	71.100
1200	1200	6	Metric	PN10	Butt	<b>724 705 134</b>	101.000

<b>d</b> (mm)	<b>DN</b> (mm)	<b>D</b> (mm)	<b>D1</b> (mm)	<b>D2</b> (mm)	<b>D3</b> (mm)	<b>H</b> (mm)	<b>AL</b>	<b>SC</b>
125	125	250	210	135	18	25	8	M16
450	450	615	565	470	26	36	20	M24
450	500	715	650	517	33	46	20	M30
500	500	715	650	533	33	46	20	M30



d (mm)	DN (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	AL	SC
560	600	840	770	618	36	55	20	M33
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

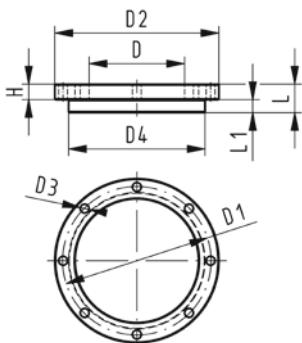


**Blanking flange set PE100**  
Combined jointing face flat and serrated metric

**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	<b>753 700 611</b>	0.560	75	125	165	18	102	30	14	24	4	M16
75	65	16	<b>753 700 612</b>	0.910	89	145	185	18	122	30	16	26	4	M16
90	80	16	<b>753 700 613</b>	0.921	105	160	200	18	138	30	17	27	8	M16
110	100	16	<b>753 700 614</b>	1.158	125	180	220	18	158	30	18	28	8	M16
125	100	16	<b>753 700 615</b>	1.678	132	180	220	18	158	35	25	28	8	M16
140	125	16	<b>753 700 616</b>	1.913	155	210	250	18	188	40	25	30	8	M16
160	150	16	<b>753 700 617</b>	2.373	175	240	285	22	212	40	25	32	8	M20
180	150	16	<b>753 700 618</b>	2.430	180	240	285	22	212	45	30	32	8	M20
200	200	16	<b>753 700 619</b>	3.495	232	295	340	22	268	50	32	34	8	M20
225	200	16	<b>753 700 620</b>	3.744	235	295	340	22	268	50	32	34	8	M20
250	250	16	<b>753 700 621</b>	6.051	285	350	395	22	320	55	35	38	12	M20
280	250	16	<b>753 700 622</b>	6.305	291	350	395	22	320	60	35	38	12	M20
315	300	16	<b>753 700 623</b>	8.894	335	400	445	22	370	65	35	42	12	M20
355	350	16	<b>753 700 624</b>	23.198	373	460	515	22	430	70	40	40	16	M20
400	400	16	<b>753 700 625</b>	30.766	427	515	574	26	482	75	46	40	16	M24
450	500	10	<b>753 700 626</b>	44.271	510	620	684	26	585	80	60	49	20	M24
500	500	10	<b>753 700 627</b>	47.165	530	620	684	26	585	90	60	49	20	M24
560	600	10	<b>753 700 628</b>	67.147	615	725	796	30	685	100	60	58	20	M27
630	600	10	<b>753 700 629</b>	68.574	642	725	796	30	685	110	60	68	20	M27

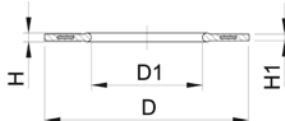


### Profile Flange Gasket EPDM/FKM metric

#### 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



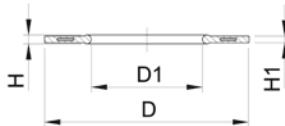
d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	Weight (kg)	D (mm)	D1 (mm)	di FA (mm)	H (mm)	H1 (mm)
16	10	16	748 440 705	749 440 705	0.012	46	16	6 - 16	4	3
20	15	16	748 440 706	749 440 706	0.013	51	20	10 - 20	4	3
25	20	16	748 440 707	749 440 707	0.014	61	22	12 - 22	4	3
32	25	16	748 440 708	749 440 708	0.019	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



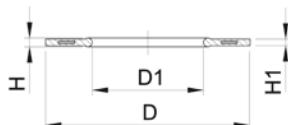
### Profile Flange Gasket EPDM/FKM ANSI/ASME

#### 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



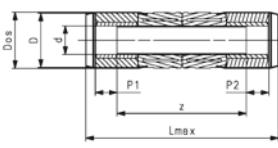
d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	Inch (inch)	D (mm)	D1 (mm)	H (mm)	H1 (mm)
225	200	748 440 515	0.195	749 440 515	0.316	8	279	220	8	6
250	250	748 440 517	0.243	749 440 517	0.373	10	337	273	8	6
315	300	748 440 518	0.398	749 440 518	0.750	12	406	325	8	6
355	350	748 440 519	0.800	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



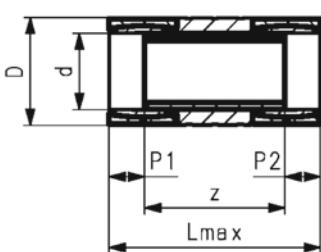
d (mm)	D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	Dos (mm)	Lmax (mm)	P1 (mm)	P2 (mm)	z (mm)
32	90	25	11	16	738 913 508	0.499	97	390	36.0	36	268
40	110	32	11	16	738 913 509	0.475	117	414	40.0	40	284
50	110	40	11	16	738 913 510	0.630	117	434	44.0	44	296
63	125	50	11	16	738 913 511	0.937	132	464	48.0	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



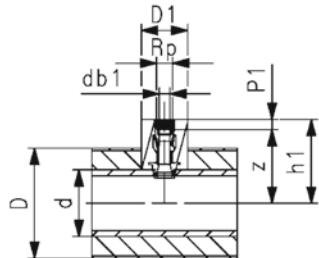
**COOL-FIT 4.0 Weld-in port PE/Stainless steel  
With female thread Rp**

**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)
1/2	Rp	16	<b>738 113 206</b>	0.139	d63 - d225	11.8	78	85+d/2	15	70 + d/2
3/4	Rp	16	<b>738 113 207</b>	0.179	d63 - d225	17.4	78	85+d/2	16	69 + d/2
1	Rp	16	<b>738 113 208</b>	0.240	d63 - d225	23.1	78	86+d/2	19	67 + d/2



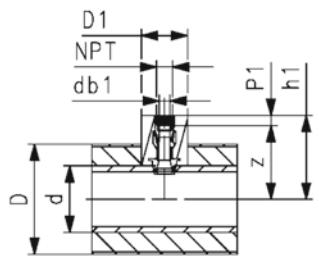
**COOL-FIT 4.0 Weld-in port PE/Stainless steel  
With female thread NPT**

**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)
1/2	NPT	16	<b>738 113 306</b>	0.148	d63 - d225	11.8	78	85+d/2	15	70 + d/2
3/4	NPT	16	<b>738 113 307</b>	0.191	d63 - d225	17.4	78	85+d/2	16	69 + d/2
1	NPT	16	<b>738 113 308</b>	0.248	d63 - d225	23.1	78	86+d/2	19	67 + d/2



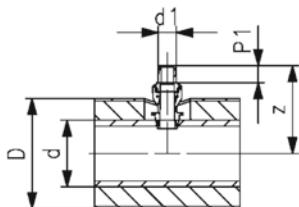
### COOL-FIT 2.0/4.0 Weld-in port PE/iFIT

#### 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	<b>738 110 407</b>	0.228	d63 - d225	28	92 + d/2



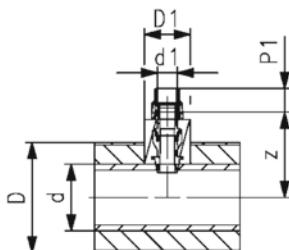
### COOL-FIT 4.0 Weld-in port PE/Sanipex MT

#### 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	<b>738 113 508</b>	0.245	d63 - d225	11.8	78	39	49 + d/2



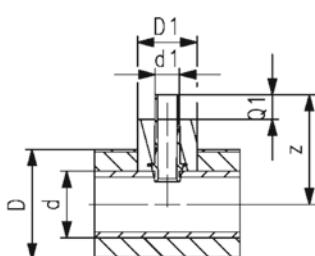
### COOL-FIT 4.0 Weld-in port PE spigot

#### 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	<b>738 113 608</b>	0.075	d63 - d225	78	36	125 + d/2
40	11	16	<b>738 113 609</b>	0.107	d75 - d225	85	40	131 + d/2
50	11	16	<b>738 113 610</b>	0.163	d90 - d225	110	44	140 + d/2

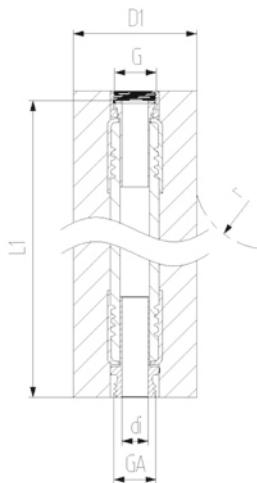
# COOL-FIT 4.0 Flexible Hoses

## 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	1/2	15	10	<b>738 923 206</b>	1000	15	119
25	82	G/GA	3/4	20	10	<b>738 923 207</b>	1000	19	156
32	92	G/GA	1	25	10	<b>738 923 208</b>	1000	25	192
40	95	G/GA	1 1/4	32	8	<b>738 923 209</b>	1500	32	252
50	110	G/GA	1 1/2	40	6	<b>738 923 210</b>	2000	38	312
63	123	G/GA	2	50	6	<b>738 923 211</b>	2000	52	372

# COOL-FIT 4.0 Valves

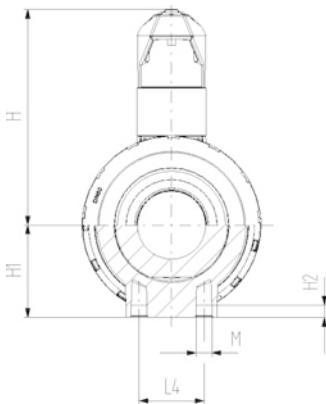
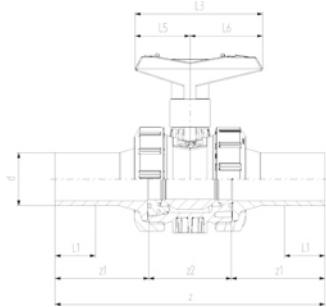


**COOL-FIT 4.0 Ball valve type 546 Pro  
hand-operated**

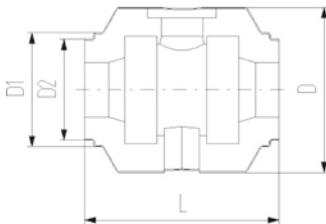
**Model:**

- 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

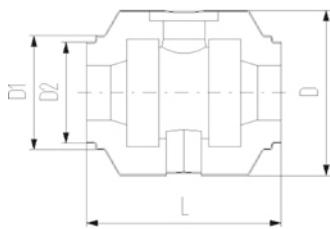
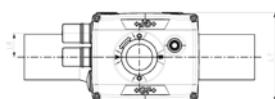
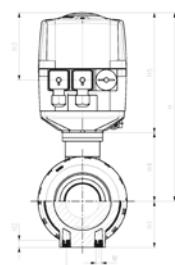
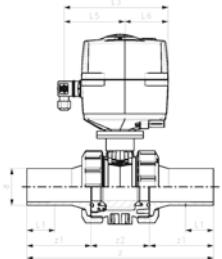
d (mm)	DN (mm)	PN	kv-value (Δp=1 bar) (l/min)	SDR	EPDM Code	Weight (kg)
32	25	10	700	11	138 546 108	0.542
40	32	10	1000	11	138 546 109	0.887
50	40	10	1600	11	138 546 110	1.165
63	50	10	3100	11	138 546 111	2.100
75	65	10	5000	11	138 546 112	5.125
90	80	10	7000	11	138 546 113	7.173



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



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

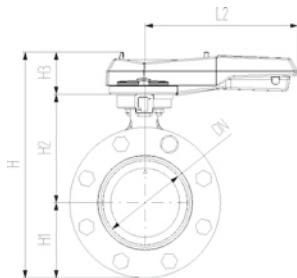
d (mm)	D (mm)	D1 (mm)	D2 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L3 (mm)	L4 (mm)	M	z (mm)	z1 (mm)	z2 (mm)
32	135	97	82	228	36	12	152	36	190	25	M6	223	76	71
40	157	117	97	240	44	15	170	40	190	45	M8	249	82	85
50	169	117	97	246	51	15	184	44	190	45	M8	271	91	89
63	204	132	117	263	64	15	227	48	190	45	M8	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



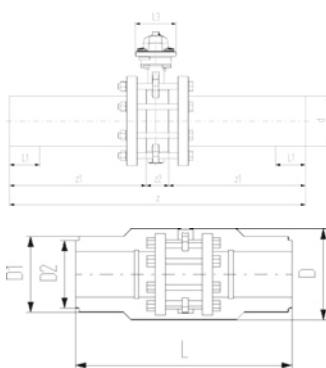
### COOL-FIT 4.0 Wafer-style butterfly valve kit type 567 Hand lever with ratchet settings

#### 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



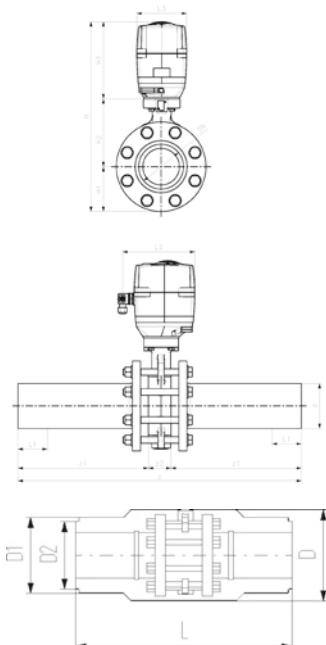
d (mm)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	z (mm)	z1 (mm)	z2 (mm)
110	310	188	168	556	72	255.0	106	325	104	167	55	696	320	56
140	280	233	222	670	84	252.5	58	369	119	180	70	830	383	64
160	358	259		720	90	255.0	115	401	143	203	55	895	412	72
225	409	325		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:

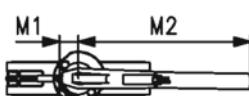
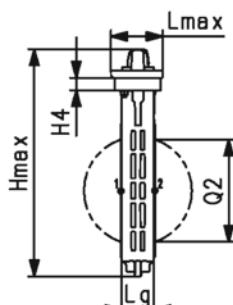
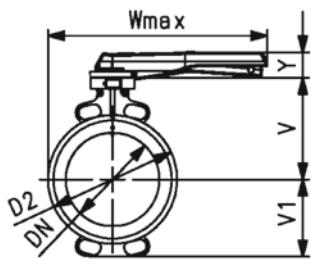
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Lockable ergonomic 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](http://www.gfps.com)



d (mm) (inch)	Size DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP Weight (kg)	FKM Code	SP Weight (kg)
63	2	50	16	1445	199 565 000	1	1.3
75	2 1/2	65	16	2530	199 565 001	1	1.5
90	3	80	16	4020	199 565 002	1	1.7
110	4	100	16	5850	199 565 003	1	2.5
140	5	125	16	11900	199 565 004	1	3.1
160	6	150	16	18050	199 565 005	1	4.0
225	8	200	10	43667	199 565 006	1	5.3

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:

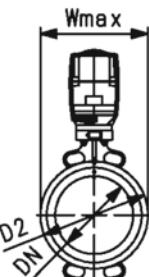
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Voltage 100-230V, 50-60Hz
- Factory set control range 0-90°
- Heating element, position feedback (Open/Closed/ Middle)
- Manual override integrated in electric actuator
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

#### Option:

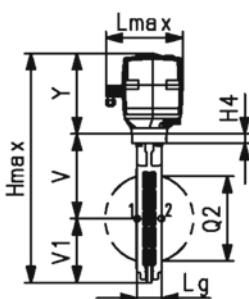
- Individual configuration of the valve possible
- Hand or pneumatic actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board
- Additional manual override between valve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

#### Note:

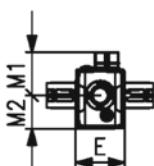
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on [www.gfps.com](http://www.gfps.com)



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar)	Actuator (l./min)	EPDM Code	SP Code	Weight (kg)
63	50	2	10	1445	EA45	199 565 300	1	3.3
75	65	2 1/2	10	2530	EA120	199 565 301	1	4.6
90	80	3	10	4020	EA120	199 565 302	1	4.7
110	100	4	10	5850	EA120	199 565 303	1	5.6
140	125	5	10	11900	EA120	199 565 304	1	6.1
160	150	6	10	18050	EA250	199 565 305	1	8.7
225	200	8	10	43667	EA250	199 565 306	1	10.0
280	250	10	6	62333	EA250	199 565 307	1	14.5
315	300	12	4	94500	EA250	199 565 308	1	18.2



d (mm)	FKM Code	SP Code	Weight (kg)
63	199 565 320	1	3.4
75	199 565 321	1	4.7
90	199 565 322	1	4.8
110	199 565 323	1	5.8
140	199 565 324	1	6.4
160	199 565 325	1	9.0
225	199 565 326	1	10.5
280	199 565 327	1	15.2
315	199 565 328	1	19.4



d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M1 (mm)	M2 (mm)	Y (mm)	Q2 (mm)
63	100.0	122.5	377.5	190.0	23	133.5	63.0	43	122.5	107.5	83	166.5	28.5
75	121.0	132.5	411.5	190.0	23	140.0	82.0	46	122.5	107.5	83	189.5	44.0
90	138.0	137.5	424.0	190.0	23	146.0	89.0	46	122.5	107.5	83	189.5	63.5
110	158.5	158.5	459.5	190.0	23	166.5	104.0	52	122.5	107.5	83	189.5	84.0
140	187.0	187.0	487.5	190.0	23	180.0	118.0	56	122.5	107.5	83	189.5	110.5
160	213.0	213.0	518.5	190.0	23	189.0	130.5	56	122.5	107.5	83	199.5	137.5
225	267.0	267.0	568.0	190.0	23	209.5	159.0	60	122.5	107.5	83	199.5	190.5
280	325.5	325.5	674.5	190.0	23	262.5	195.5	68	122.5	107.5	83	216.5	239.0
315	380.0	380.0	731.0	190.0	23	284.5	230.5	78	122.5	107.5	83	216.5	285.5



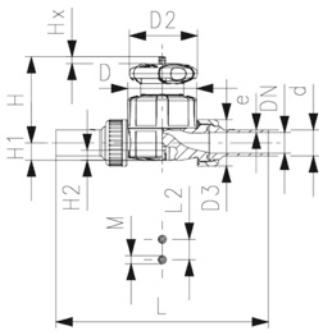
### ABS Diaphragm valve type 514 With butt fusion spigots long

#### Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

#### Option:

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



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar)	EPDM Code
(l/min)					
20	15	1/2	10	125	169 514 312
25	20	3/4	10	271	169 514 313
32	25	1	10	481	169 514 314
40	32	1 1/4	10	759	169 514 315
50	40	1 1/2	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 (mm)	z (mm)	Lift = Hx (mm)	closest inch (inch)
20	15	65	65	43	73	14	12	230	25	M6	96	7	1/2
25	20	80	65	51	81	18	12	256	25	M6	114	10	3/4
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 1/4
50	40	117	135	83	148	32	15	334	45	M8	160	19	1 1/2
63	50	144	135	100	166	39	15	376	45	M8	190	25	2



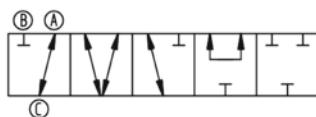
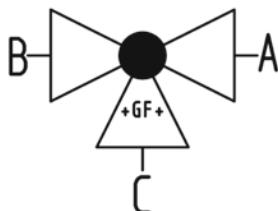
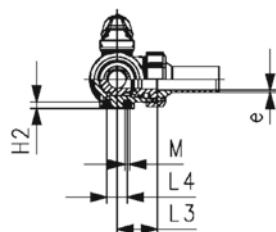
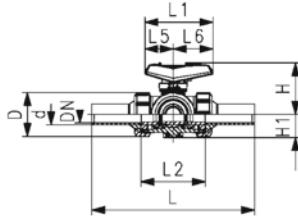
**ecoFIT 3-Way ball valve type 543 Pro ABS  
Horizontal/L-port  
With butt fusion spigots long PE100 SDR11 metric**

**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 (1st Generation)

**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 ( $\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)
20	15	1/2	10	75	<b>169 543 302</b>	0.203
25	20	3/4	10	150	<b>169 543 303</b>	0.296
32	25	1	10	280	<b>169 543 304</b>	0.450
40	32	1 1/4	10	480	<b>169 543 305</b>	0.762
50	40	1 1/2	10	620	<b>169 543 306</b>	1.161
63	50	2	10	1230	<b>169 543 307</b>	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 (mm)	e (mm)	closest inch (inch)
20	15	50	210	82	73	36	25	35	47	61	28	8	6	1.9	1/2
25	20	58	237	106	86	43	25	44	62	74	32	8	6	2.3	3/4
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 1/4
50	40	97	319	131	137	69	45	57	74	102	51	9	8	4.6	1 1/2
63	50	124	399	152	179	89	45	66	86	117	65	9	8	5.8	2



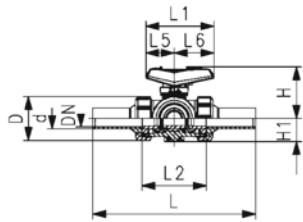
**ecoFIT 3-Way ball valve type 543 Pro ABS**  
**Horizontal/T-port**  
**With butt fusion spigots long PE100 SDR11 metric**

**Model:**

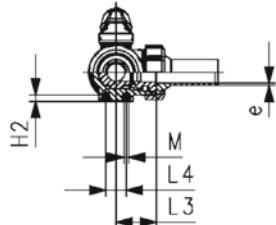
- Material: ABS/PE
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated 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 (1st Generation)

**Option:**

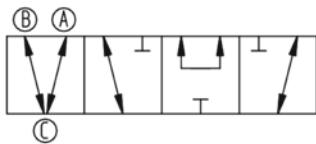
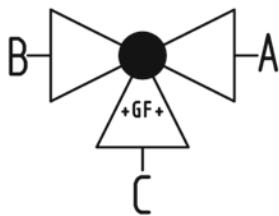
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
20	15	1/2	10	200	169 543 322	0.203
25	20	3/4	10	470	169 543 323	0.296
32	25	1	10	793	169 543 324	0.450
40	32	1 1/4	10	1290	169 543 325	0.762
50	40	1 1/2	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 (mm)	e (mm)	closest inch (inch)
20	15	50	210	82	73	36	25	35	47	61	28	8	6	1.9	1/2
25	20	58	237	106	86	43	25	44	62	74	32	8	6	2.3	3/4
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 1/4
50	40	97	319	131	137	69	45	57	74	102	51	9	8	4.6	1 1/2
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
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

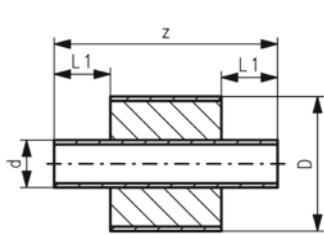
d (mm)	D (mm)	Code	Weight (kg)	pieces/kit
32 - 225	90 - 315	799 738 502	6.100	2 / Dimension



## 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



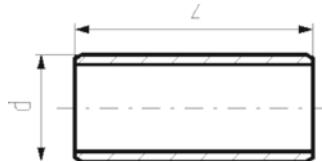
d (mm)	D (mm)	DN	SDR	PN (bar)	Code	Weight (kg)	L1 (mm)	z (mm)
32	90	25	11	16	738 913 408	0.126	36	151
40	110	32	11	16	738 913 409	0.188	40	155
50	110	40	11	16	738 913 410	0.226	44	163
63	125	50	11	16	738 913 411	0.328	48	171
75	140	65	11	16	738 913 412	0.447	55	185
90	160	80	11	16	738 913 413	0.631	62	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	<b>738 910 408</b>	0.020	72
40	32	11	16	<b>738 910 409</b>	0.034	80
50	40	11	16	<b>738 910 410</b>	0.059	88
63	50	11	16	<b>738 910 411</b>	0.101	96
75	65	11	16	<b>738 910 412</b>	0.162	110
90	80	11	16	<b>738 910 413</b>	0.264	124
110	100	11	16	<b>738 910 414</b>	0.454	144
140	125	11	16	<b>738 910 416</b>	0.855	168
160	150	17	10	<b>738 910 417</b>	0.798	180
225	200	17	10	<b>738 910 420</b>	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	<b>738 010 012</b>	0.002
90	32 - 50	32	40 - 50	<b>738 010 013</b>	0.002
110	40 - 63	40 - 50	63	<b>738 010 014</b>	0.003
125	63 - 75	63	75	<b>738 010 015</b>	0.003
140	75 - 90	75	90	<b>738 010 016</b>	0.003
160	90 - 110	90	110	<b>738 010 017</b>	0.005
180	110	110		<b>738 010 018</b>	0.005
200	140		140	<b>738 010 019</b>	0.006
225	140	140		<b>738 010 020</b>	0.009
250	160	160		<b>738 010 021</b>	0.009
315	225	225		<b>738 010 023</b>	0.027



### COOL-FIT 4.0 Sealing clamp-kit

#### Model:

- Supports the function of the top sealing lip of COOL-FIT 4.0 Fittings for vertical installations outdoor
- Material: stainless steel 304/V2A
- Color: black

d (mm)	D (mm)	Code	Weight (kg)	pieces/kit
32	90	<b>738 013 013</b>	0.250	6
40 - 50	110	<b>738 013 014</b>	0.300	6
63	125	<b>738 013 015</b>	0.300	6
75	140	<b>738 013 016</b>	0.300	6
90	160	<b>738 013 017</b>	0.300	6
110	180	<b>738 013 018</b>	0.300	6
140	225	<b>738 013 020</b>	0.300	6
160	250	<b>738 013 021</b>	0.390	6
225	315	<b>738 013 023</b>	0.450	6

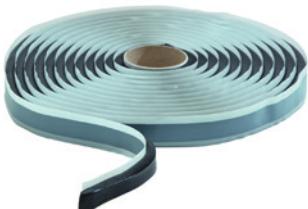


### COOL-FIT 4.0 Sealing tape 25mm

**Model:**

- Supports the function of the top sealing lip of COOL-FIT 4.0 Fittings for vertical installations outdoor
- 30m on a roll, 25mm width, butylene rubber-based

d (mm)	D (mm)	Code	Weight (kg)
32 - 225	90 - 315	<b>738 013 031</b>	1.400



### 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, butylene rubber-based

d (mm)	D (mm)	Code	Weight (kg)
32-140	90-225	<b>738 013 041</b>	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, butylene rubber-based
- 30 m on a roll

d-d (mm)	D (mm)	Code	Weight (kg)	Closest inch (inch)
25 - 450	250 - 630	<b>738 011 152</b>	2.134	¾ - 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	<b>738 010 055</b>	0.500



### COOL-FIT 4.0 Shrink socket PE

**Model:**

- For a water- and steam-tight sealing in combination with butylene rubber-based sealing tape
- Length: 100 mm
- "Heavy duty" version for high end applications
- For connections of the same pipe outer diameter

D (mm)	d (mm)	Code	SP	Weight (kg)	L (mm)
355	250	<b>738 011 024</b>	1	0.900	150
400	280	<b>738 011 025</b>	1	1.100	150
450	315	<b>738 011 026</b>	1	1.900	150
500	355	<b>738 011 027</b>	1	1.000	150
560	400	<b>738 011 028</b>	1	1.000	150
630	450	<b>738 011 029</b>	1	1.000	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)	Closest inch (inch)
25 - 450	90 - 630	<b>738 011 107</b>	1.400	¾ - 18



### Hot shrink tape PE black

**Model:**

- For watertight sealing of outer pipe in underground installations
- Mastic backed
- 30 m on a roll
- Shrink with a burner or hot air gun
- Order sealing patches separately (738 011 109)

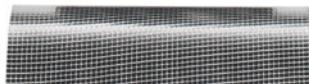
d-d (mm)	D (mm)	Code	Weight (kg)	L (mm)
250 - 455	355 - 630	<b>738 011 108</b>	3.000	150

Aussenrohr D/ jacket pipe D (mm)	Länge Schrumpfband/ shrink tape length (mm)
355	1210
400	1350
450	1500
500	1660
560	1850
630	2070

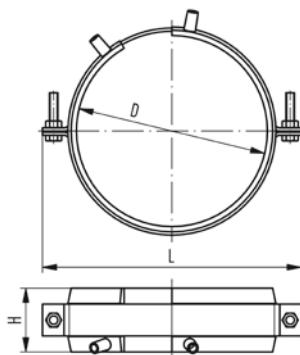
## Sealing patch

### Model:

- For sealing of hot-shrink-tape in underground installations
- Mastic backed
- 1 patch needed per seal



d-d (mm)	D (mm)	Code	Weight (kg)	L (mm)
25 - 450	90 - 630	<b>738 011 109</b>	0.100	150



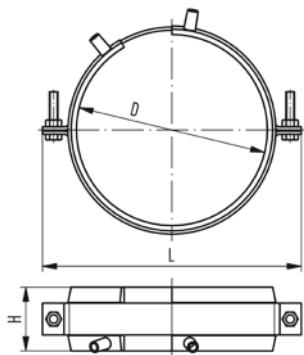
## COOL-FIT 2.0/4.0 Fixed point

### 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 installation 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	<b>738 912 012</b>	0.750
90	32 - 50	32	40 - 50	<b>738 912 013</b>	0.895
110	40 - 63	40 - 50	63	<b>738 912 014</b>	0.904
125	63 - 75	63	75	<b>738 912 015</b>	1.103
140	75 - 90	75	90	<b>738 912 016</b>	1.188
160	90 - 110	90	110	<b>738 912 017</b>	1.177
180	110	110		<b>738 912 018</b>	1.530
200	140		140	<b>738 912 019</b>	1.600
225	140	140		<b>738 912 020</b>	1.813
250	160	160		<b>738 912 021</b>	1.957
315	225	225		<b>738 912 023</b>	2.388
355	250	250		<b>738 912 024</b>	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



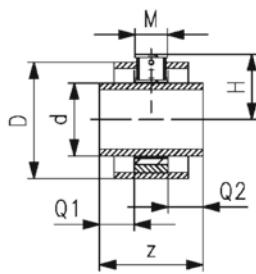
D (mm)	d (mm)	L (mm)	H (mm)	max Force COOL-FIT 4.0 (kN)	max Force COOL-FIT 2.0 (kN)
225	140	310	60	10.0	
250	160	335	60	10.0	
315	225	400	60	10.0	
355	250	420	60	10.0	



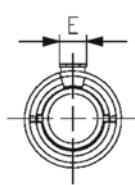
### COOL-FIT 4.0 Fixpoint kit for high forces

#### 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

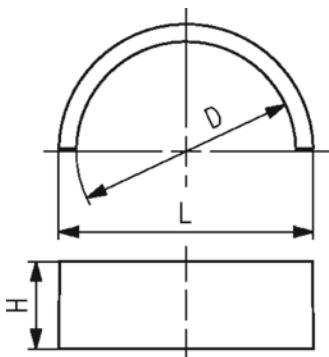
Type	Code	Weight (kg)
4 leads cable with 2mm plugs in output	790 156 032	0.385

## 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	<b>799 198 094</b>	0.143



## COOL-FIT 4.0F fixed point set

### Model:

- Four PVC-U half shells as permanent connection to transmit the forces that occur in the pipe to the fixed point.
- For cementing use Tangit RAPID, Tangit RAPID static mixer and Tangit RAPID dispenser
- 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)	Code	SP	Weight (kg)	L (mm)	H (mm)	max Force (kN)
160	250	<b>738 912 321</b>	1	1.957	284	35	10.0
225	315	<b>738 912 323</b>	1	2.388	356	35	10.0



## Tangit Rapid cartridges kit

- 2-Component-Adhesive
- For PVC-U and PVC-C
- Tangit Rapid Kit consists of 6 cartridges, 12 mixers and 2 plastic brushes
- Tool needed: Tangit Rapid dispenser and mixers
- Check chemical resistance list ([www.gfps.com](http://www.gfps.com))

Language	description	Code	Weight (kg)
DE, FR	50 ml	<b>799 302 005</b>	0.566
FR, NL	50 ml	<b>799 302 041</b>	0.566
DK, SE	50 ml	<b>799 302 042</b>	0.566
GB, IT	50 ml	<b>799 302 043</b>	0.566
FI, NO	50 ml	<b>799 302 044</b>	0.566
DE, ES, FR, GB, IT, NL, PT	400 ml	<b>799 302 007</b>	3.700
DK, FI, NO, SE	400 ml	<b>799 302 047</b>	3.700



## Tangit Rapid mixer set

- For Tangit Rapid cartridges
- Bag with 30 pieces for 50ml and 15 pieces for 400ml

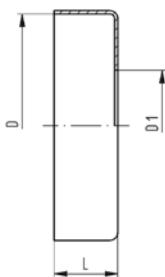
description	Code	SP	Weight (kg)
50ml	<b>799 302 032</b>	1	0.160
400ml	<b>799 302 033</b>	1	0.190



### Tangit Rapid dispenser

- For Tangit Rapid cartridges

d-d (mm)	description	Code	SP	Weight (kg)
16 - 140	50ml	<b>799 302 011</b>	1	0.185
110 - 400	400ml	<b>799 302 013</b>	1	1.100



### 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	<b>733 960 185</b>	0.155	35
280	400	300	<b>733 960 186</b>	0.185	35
315	450	335	<b>733 960 187</b>	0.225	35
355	500	370	<b>733 963 188</b>	0.269	35
400	560	420	<b>733 963 189</b>	0.269	35
450	630	470	<b>733 963 190</b>	0.269	35



### Sealant

#### Model:

- For sealing and glueing of insulation of Weld-in ports and caps
- Cartridge à 290 ml

Code	SP	Weight (kg)
290 ml	<b>738 011 103</b>	1    0.473



### COOL-FIT 2.0/4.0 Adhesive cement

#### Model:

- For the jointing of NBR foam insulations of flexible hoses and transition fittings

Code	SP	Weight (kg)
<b>738 010 060</b>	1	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	SP	Weight (kg)
<b>738 010 065</b>	1	0.400



### 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	<b>799 298 023</b>	0.872



### Marker

Type	Code	Weight (kg)
silver	<b>799 350 364</b>	0.010



### Deburring tool

- Replacable blade

Code	SP	Weight (kg)
<b>790 205 082</b>	1	0.058

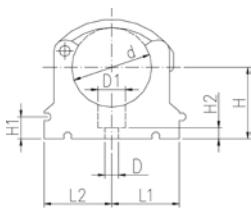


### Measuring tape (circumference and diameter)

- Circumference: 2 m / 79 inch
- Diameter: 630 mm / 25 inch

Code	SP	Weight (kg)
<b>790 205 087</b>	1	0.045

### 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	SP	Weight (kg)
*	10	167 061 003	10
*	12	167 061 004	10
*	16	167 061 035	10
*	20	167 061 036	10
*	25	167 061 037	10
*	32	167 061 038	10
40	167 061 039	10	0.027
50	167 061 040	10	0.031
63	167 061 041	10	0.052
75	167 061 012	10	0.057
90	167 061 013	10	0.092
110	167 061 014	10	0.117
125	167 061 015	10	0.180
140	167 061 016	10	0.224
160	167 061 017	10	0.242

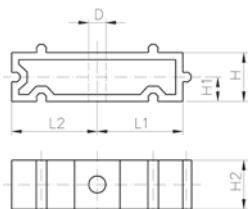
d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L1 (mm)	L2 (mm)	SC	closest inch (inch)
*	10	5	8	20	10	6	12	11	M4	1/8
*	12	5	8	21	10	6	12	11	M5	1/4
*	16	6	11	27	10	6	16	14	M5	3/8
*	20	6	11	27	10	6	16	17	M5	1/2
*	25	6	11	30	10	6	16	19	M5	5/8
*	32	6	11	36	10	6	16	24	M5	1
40	7	14	44	10	7	22	34	34	M6	1 1/4
50	7	14	51	10	7	22	37	37	M6	1 1/2
63	9	17	64	10	10	25	45	45	M8	2
75	9	17	58	10	10	25	52	52	M8	2 1/2
90	9	17	65	10	10	28	65	65	M8	3
110	9	17	75	10	10	28	79	79	M8	4
125	9	17	90	10	10	32	88	88	M8	
140	9	17	110	10	10	32	98	98	M8	5
160	9	17	108	10	10	32	109	109	M8	6



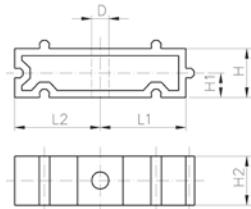
### KLIP-IT spacer type 061 PP

#### Model:

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



d (mm)	Inch (inch)	Code	SP	Weight (kg)	D (mm)	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	SC
10 - 12	1/8 - 1/4	167 061 153	10	0.003	5	11	14	20	10	12	M4
16	5/16	167 061 155	10	0.005	6	14	17	20	10	16	M5
20	1/2	167 061 156	10	0.005	6	17	19	20	10	16	M5
25	3/8	167 061 157	10	0.007	6	19	22	20	10	16	M5
32	1	167 061 158	10	0.006	6	24	27	20	10	16	M5
40	1 1/4	167 061 159	10	0.015	7	34	34	20	10	22	M6
50	1 1/2	167 061 160	10	0.017	7	37	37	20	10	22	M6
63	2	167 061 161	10	0.020	9	45	45	20	10	25	M8
75	2 1/2	167 061 162	10	0.027	9	52	52	20	10	25	M8
90	3	167 061 163	10	0.039	9	65	65	20	10	28	M8

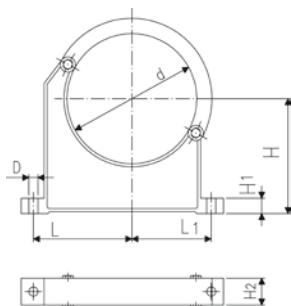


d (mm)	Inch (inch)	Code	SP	Weight (kg)	D (mm)	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	SC
110	4	167 061 164	10	0.048	9	79	79	20	10	28	M8
125	4 1/2	167 061 165	10	0.059	9	88	88	20	10	32	M8
140	5	167 061 166	10	0.065	9	98	98	20	10	32	M8
160	6	167 061 167	10	0.071	9	109	109	20	10	32	M8

### 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	SP	Weight (kg)	D (mm)	L (mm)	L1 (mm)	H (mm)	H1 (mm)	H2 (mm)	SC	closest inch (inch)
90	167 060 038	10	0.144	9	89	71	105	15	33	M 8	3
110	167 060 039	10	0.158	9	94	80	115	15	33	M 8	4
125	167 060 040	10	0.249	11	116	91	130	20	35	M10	
140	167 060 041	10	0.260	11	121	99	130	20	35	M10	5
160	167 060 042	10	0.296	11	131	107	148	20	35	M10	6
180	167 060 043	10	0.327	11	143	115	163	20	35	M10	7
200	167 060 019	5	0.539	13	151	120	175	25	39	M12	8
225	167 060 020	5	0.612	13	164	132	175	25	39	M12	8
250	167 060 021	5	0.657	13	183	143	200	25	39	M12	9
280	167 060 022	5	0.722	13	197	156	200	25	39	M12	10
315	167 060 023	5	0.805	13	219	171	225	25	39	M12	12
355	167 060 024	5	1.251	17	275	209	258	30	50	M16	14
400	167 060 025	4	1.031	17	300	228	288	30	50	M16	16

# COOL-FIT 4.0 Heat Tracing



## Self regulating heating cable

### Model:

- for pipe freeze protection
- cut to length on site
- suitable for in-pipe applications (inside the medium)
- zero maintenance after installation and commissioning
- no risk of overheating due to self-regulating technology
- Cables featuring self-regulating technology. The heat output automatically adjusts depending on the local temperature at every point along its length. It never overheats even when overlapping

L (m)	Code	Weight (kg)
200	<b>790 738 001</b>	14.400
62	<b>790 738 003</b>	4.460
40	<b>790 738 005</b>	2.280
20	<b>790 738 007</b>	1.440



## Electronic Controller for pipe freeze protection

The controller is designed to provide userfriendly measurement and control for the self regulating heating cable for COOL-FIT. The Controller has a 25 A control relay and an SPDT alarm relay. Parameter and eventual alarm conditions are shown on the digital display and settings can be programmed easily even without power supply. The controller is supplied with an NTC temperature sensor for efficient media temperature sensing, and mountable DIN rail 35mm for easy mounting option an walls.

### Model:

- Easy set-up and programming of the unit
- Flexible temperature control of pipe freeze protection
- Media temperature sensing and/or ambient temperature sensing
- Proportional Ambient Sensing Control (PASC) algorithm for enhanced energy savings in ambient sensing mode
- Alarm relay with change over contact to signal power, temperature or communication problems
- Pipe temperature monitoring with high and low temperature alarm
- On wall mountable for outdoor location

Code
<b>790 738 031</b>



## Cable gland

- For the leading the heating inside and outside the COOL-FIT 4.0 piping via threaded fitting

### Model:

- Material: brass
- threaded connection: 3/4 " male thread R

R (inch)	Code	Weight (kg)
3/4	<b>790 738 020</b>	0.146



### Cold lead connection and end seal kit

- For heating cables for COOL-FIT

**Model:**

- Heat-shrink technique

**Inclusive:**

- Crimps
- Cold lead shrinkable sleeves
- End seal shrinkable sleeves
- Mastic

Code	Weight (kg)
<b>790 738 010</b>	0.045

# 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	<b>799 738 001</b>	10.500	SDR11
110-225	<b>799 738 003</b>	16.500	d110+d140 SDR11; d160+d225 SDR17
250-450	<b>799 738 004</b>	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 tool 799738003

d (mm)	Code	Weight (kg)
140-225	<b>799 738 013</b>	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	<b>799 738 015</b>	16.500	SDR11
250-450	<b>799 738 016</b>	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 accessories

d (mm)	Code	Weight (kg)	SDR
250 - 450	<b>799 738 161</b>	60.000	SDR11

## MSA 2.1 Automatic Electrofusion Unit with protocols retrieval



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 has 1000 protocols permanently stored in the internal memory. The user can copy the fusion reports in 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 (8 m only for code 790156010) / Fusion cable: 4 m
- Weight: ca. 11.9 kg
- Display: Graphical LCD, adjustable contrast
- Independent from languages
- Bluetooth radio interface

Type	Code	Weight (kg)
Barcode scanner, transport case, mini Welding Book	<b>790 156 003</b>	11.900
Barcode scanner, transport case, mini Welding Book, Swiss plug	<b>790 156 006</b>	11.900
Barcode scanner, transport case, mini Welding Book, 8m fusion cable	<b>790 156 010</b>	12.900
Barcode scanner, transport case, mini Welding Book, German version	<b>790 156 009</b>	19.500



### Long adapters

- Adapters for Electrofusion units with 4 mm connectors.
- Longer version, suitable for all COOL-FIT 4.0 dimensions.

Type	Code	Weight (kg)	Description
4,0 mm	<b>790 128 035</b>	0.058	Angle adapters pair, black



## 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	Tension	Code	Weight (kg)
A	230 V	<b>799 738 300</b>	20.700
B	230 V	<b>799 738 301</b>	14.100
A	110 V	<b>799 738 302</b>	20.700
B	110 V	<b>799 738 303</b>	14.100
C		<b>799 738 310</b>	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	<b>799 301 490</b>	4.200
160	630	<b>799 301 496</b>	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)
40	200	799 301 489	8.300
160	630	799 301 495	23.300

d (mm)	Description	Length (mm)	Width (mm)	Height (mm)
40	Scope of delivery: 4 x V-block, 2 x Straight bar, 1 x Universal link	900	290	230
160	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	Length (mm)	Width (mm)	Height (mm)
160	630	799 301 499	1.000	Bar extension	1000	40	40

# COOL-FIT 4.0 Spare Parts



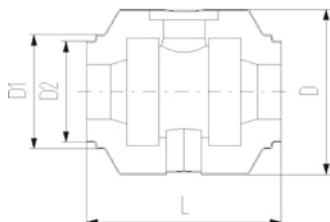
## COOL-FIT 2.0/4.0 Insulation for ball valve type 546 / 542

**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:**

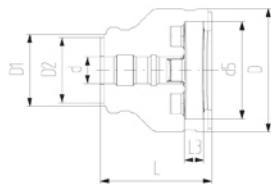
- Set consisting of half shells and clamps

**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	<b>738 990 408</b>	0.064	A
32	<b>738 990 418</b>	0.045	B
40	<b>738 990 409</b>	0.083	C
50	<b>738 990 410</b>	0.093	C
63	<b>738 990 411</b>	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	<b>738 990 428</b>	0.106
40	<b>738 990 429</b>	0.166
50	<b>738 990 430</b>	0.188
63	<b>738 990 431</b>	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	<b>738 990 438</b>	0.088
40	<b>738 990 439</b>	0.107
50	<b>738 990 440</b>	0.126
63	<b>738 990 441</b>	0.178
75	<b>738 990 442</b>	0.374
90	<b>738 990 443</b>	0.493
110	<b>738 990 444</b>	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	<b>738 010 052</b>	0.090	A	20
140 - 225	<b>738 010 053</b>	0.200	B	10
225	<b>738 010 054</b>	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	<b>799 738 101</b>	0.015
40	<b>799 738 102</b>	0.020
50	<b>799 738 103</b>	0.019
63	<b>799 738 104</b>	0.020
75	<b>799 738 105</b>	0.020
90	<b>799 738 106</b>	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	<b>799 738 107</b>	0.100
140	<b>799 738 108</b>	0.100
160	<b>799 738 109</b>	0.100
225	<b>799 738 110</b>	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
<b>799 738 115</b>	0.100	799 738 004
<b>799 738 117</b>	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	<b>799 738 050</b>	0.003
110	<b>799 738 051</b>	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	<b>799 738 020</b>	0.240	silver
40	<b>799 738 021</b>	0.090	red
50	<b>799 738 022</b>	0.210	anthracite
63	<b>799 738 023</b>	0.120	gold
75	<b>799 738 024</b>	0.270	blue
90	<b>799 738 025</b>	0.480	black



### Clamping shoe d110-d225

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 003)
- Type A: Spindle start
- Type B: With pipe stop

d (mm)	Code	Weight (kg)	Colour	Type
110	<b>799 738 026</b>	0.680	silver	
140	<b>799 738 027</b>	0.480	red	A
140	<b>799 738 037</b>	0.480	red	B
160	<b>799 738 028</b>	0.580	anthracite	A
160	<b>799 738 038</b>	0.580	anthracite	B
225	<b>799 738 029</b>	0.600	gold	A
225	<b>799 738 039</b>	0.600	gold	B



### 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	<b>799 738 042</b>	0.240	silver	A
250	<b>799 738 052</b>	0.240	silver	B
280	<b>799 738 043</b>	0.265	red	A
280	<b>799 738 053</b>	0.315	red	B
315	<b>799 738 044</b>	0.300	anthracite	A
315	<b>799 738 054</b>	0.350	anthracite	B
355	<b>799 738 045</b>	0.370	gold	A
355	<b>799 738 055</b>	0.430	gold	B
400	<b>799 738 046</b>	0.450	blue	A
400	<b>799 738 056</b>	0.520	blue	B
450	<b>799 738 047</b>	0.550	black	A
450	<b>799 738 057</b>	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		<b>799 738 026</b>	0.680	silver	SDR11
140	A	<b>799 738 027</b>	0.480	red	SDR11
140	B	<b>799 738 037</b>	0.480	red	SDR11
160	A	<b>799 738 028</b>	0.580	anthracite	SDR17
160	B	<b>799 738 038</b>	0.580	anthracite	SDR17
160	A	<b>799 738 121</b>	0.580	anthracite	SDR11
160	B	<b>799 738 122</b>	0.580	anthracite	SDR11
225	A	<b>799 738 029</b>	0.600	gold	SDR17
225	B	<b>799 738 039</b>	0.600	gold	SDR17
225	A	<b>799 738 123</b>	0.600	gold	SDR11
225	B	<b>799 738 124</b>	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		<b>799 738 026</b>	0.680	silver	SDR11
140	A	<b>799 738 027</b>	0.480	red	SDR11
140	B	<b>799 738 037</b>	0.480	red	SDR11
160	A	<b>799 738 028</b>	0.580	anthracite	SDR17
160	B	<b>799 738 038</b>	0.580	anthracite	SDR17
160	A	<b>799 738 121</b>	0.580	anthracite	SDR11
160	B	<b>799 738 122</b>	0.580	anthracite	SDR11
225	A	<b>799 738 029</b>	0.600	gold	SDR17
225	B	<b>799 738 039</b>	0.600	gold	SDR17
225	A	<b>799 738 123</b>	0.600	gold	SDR11
225	B	<b>799 738 124</b>	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)
<b>799 738 040</b>	0.008

### Circular blade-Set



- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 001 and 799 738 003)
- Consists of: Circular blade, holder and screw

d (mm)	Code	Weight (kg)
32 - 90	<b>799 738 048</b>	0.025
110 - 225	<b>799 738 049</b>	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)
<b>799 738 114</b>	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	<b>799 738 060</b>	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	<b>799 738 061</b>	0.029



### Locking pin

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 004)

Code	Weight (kg)
<b>799 738 116</b>	0.250



### Spare blades for deburring tool

- 10 pieces

Code	SP	Weight (kg)
<b>790 205 083</b>	1	0.031

## Notes

## Notes

## Notes

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