

GF Piping Systems

+GF+

Embrace the cold

COOL-FIT 2.0



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 cooling, process cooling, and air conditioning 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.



COOL-FIT 2.0

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.



Pre-insulated fitting

For fast and easy installation thanks to pre-insulation.
No manual post-insulation required.

Fixation

For securing against dislocation during installation with appropriate clamping tool.

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 jointing 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

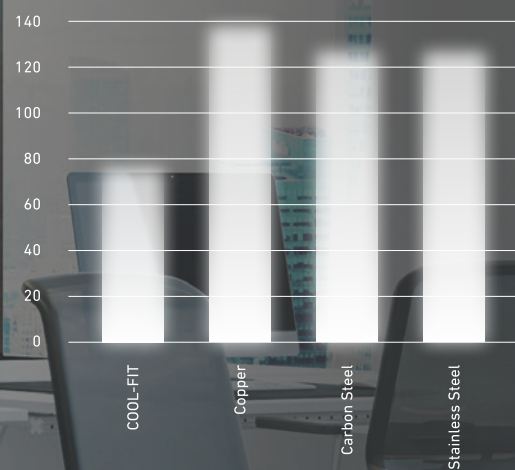
- Saves at least 30% of energy compared to traditional cooling systems, drastically reducing operating costs and CO₂ emissions.
- Non-corrosive, with at least 25-year lifetime leading to additionally saved resources related to maintenance, repairs and replacements.
- Helps achieve relevant green building 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.

[kW]



Post-insulated with rubber based foam

30%

energy savings compared to traditional cooling systems, drastically reducing operating costs and CO₂ emissions.

Bridging big to small dimensions

The COOL-FIT 2.0 Push System is an addition to the existing pre-insulated plastic piping system COOL-FIT 2.0 by extending the product range with smaller piping dimensions to reach the cooling unit.



The COOL-FIT 2.0 Push system is an all in one package for high-performance cooling applications. It simplifies planning and increases speed of installation through ready to install pieces, straight from the box, without the need/delay/cost of an insulation company.

The 'plug-n-play' system is designed with innovative and flexible materials that allow the last meter's connection. Thanks to its material properties, COOL-FIT 2.0 Push System is corrosion-free and can be operated without interruptions for 25 years.

+ One complete system

Complete pre-insulated piping solution for confident insulation, including pipes, fittings, valves, and tools.

+ Bridging big to small

Additional dimensions extend the range to reach the cooling unit for greater system performance and assurance.

+ Plug and play

Mechanical connections mean significantly less tools, easy handling, and faster installations.

+ Safe operation

Maintenance-free operation for 25 years thanks to unique material properties and safe jointing technology.



Learn more about the
COOL-FIT 2.0 Push System
www.gfps.com/coolfit2

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 2.0F), to withstand even harsher conditions.

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.



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.

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 fittings

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



Bridging big to small dimensions

The COOL-FIT 2.0 Push System is an addition to the existing system COOL-FIT 2.0, by extending the product range with smaller piping dimensions to reach the cooling unit.

System specifications

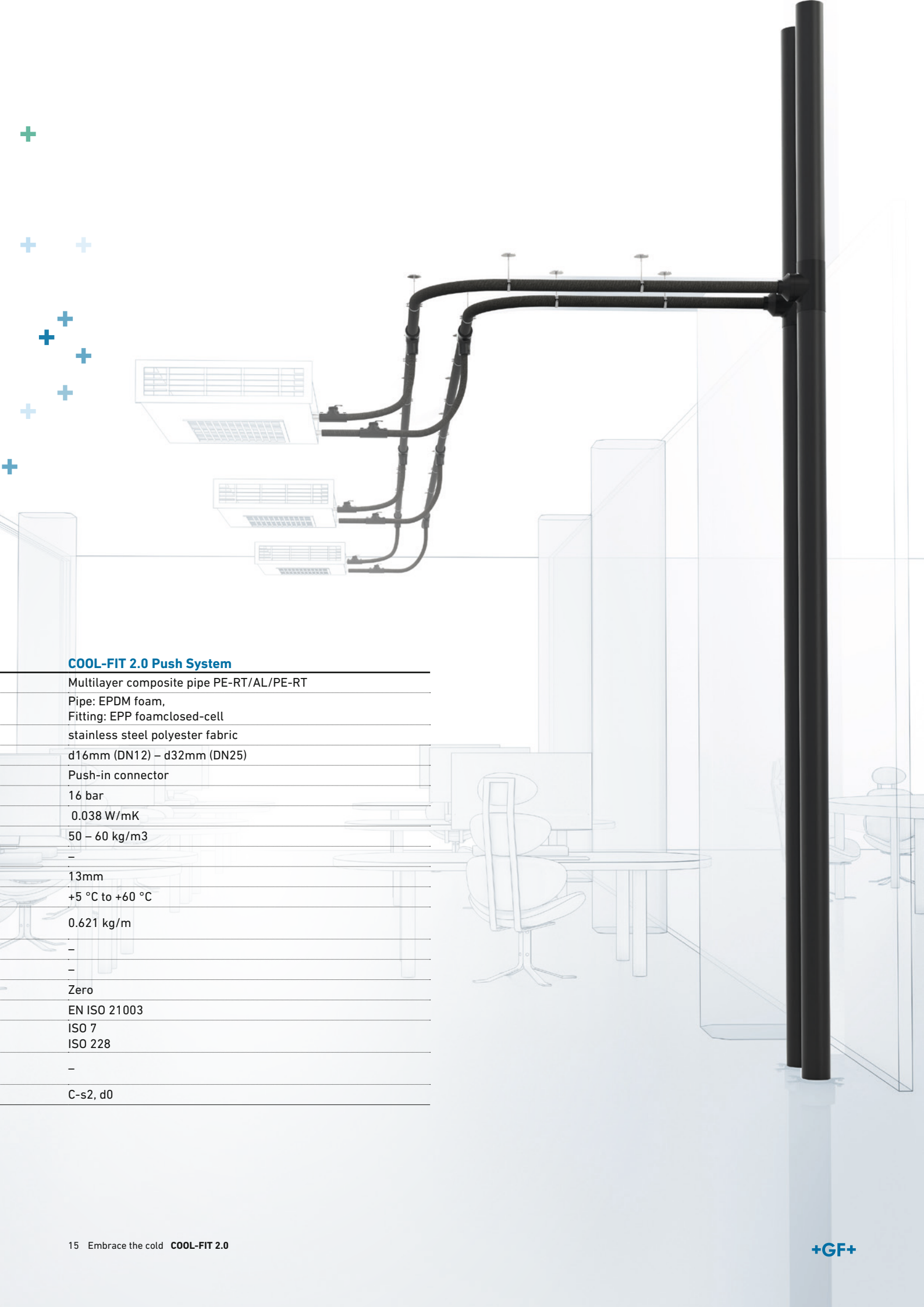
One entire system

A mainstay of the GF Piping Systems product range, COOL-FIT 2.0 is a plastic chilled-water piping system that is guaranteed not to corrode or be affected by the formation of condensation. The rapid installation time and high energy efficiency make this system a prime option for building owners, general contractors and planners as part of commercial/residential construction, data center design and process cooling applications.

System properties

		COOL-FIT 2.0	COOL-FIT 2.0F
Materials *	Medium pipe	PE100	PE100
	Insulation	GF HE foam, halogen-free, closed-cell	GF HE foam, halogen-free, closed-cell
	Outer jacket	Pipe: HDPE, Fitting: GF-HE	Flame retardant – GF-FR
Dimensions		d32 mm (DN25) – d140 mm (DN125)	d32 mm (DN25) – d140 mm (DN125)
Connection technology		Electrofusion	Electrofusion
Nominal pressure		16 bar, SDR 11	16 bar, SDR 11
Insulation	Thermal conductivity λ at 20°C	≤ 0.022 W/mK	≤ 0.022 W/mK
	Density	≥ 70 kg/m ³	≥ 70 kg/m ³
	Foam cell size	max. Ø 0.5 mm	max. Ø 0.5 mm
	Nominal thickness	22 mm	22 mm
Temperature	Medium	0 °C to +60 °C	0 °C to +60 °C
Weight (without medium)	Pipe d32 mm	1.12 kg/m	1.06 kg/m
	Pipe d110 mm	5.5 kg/m	5.39 kg/m
Environment	Resistance	Moisture- and vapor-tight	Moisture- and vapor-tight
	Ozone Depletion Potential (ODP)	Zero	Zero
Standards	Pipes & Fittings	EN ISO 15494	EN ISO 15494
	Threads	ISO 7 ISO 228	ISO 7 ISO 228
	Valves	EN ISO 16135 EN ISO 16136	EN ISO 16135 EN ISO 16136
Fire classificaiton	EN 13501-1	E	B-s2, d0

* All three materials are firmly bonded together.



COOL-FIT 2.0 Push System

Multilayer composite pipe PE-RT/AL/PE-RT
Pipe: EPDM foam, Fitting: EPP foamclosed-cell
stainless steel polyester fabric
d16mm (DN12) – d32mm (DN25)
Push-in connector
16 bar
0.038 W/mK
50 – 60 kg/m3
–
13mm
+5 °C to +60 °C
0.621 kg/m
–
–
Zero
EN ISO 21003
ISO 7
ISO 228
–
C-s2, d0

Applications

Air conditioning and cooling applications

COOL-FIT 2.0 optimizes any air conditioning, process cooling and industrial air conditioning installation.



Industrial air conditioning

An ambient work environment for the employees and stable temperatures for machinery help to sustain uninterrupted and efficient production processes.



Cruise Ships

Corrosion-free air conditioning plays a vital role in onboard accommodation as it helps to have a healthy and pleasant atmosphere concerning temperature and humidity.



Process Cooling

Production processes require stable temperatures for machinery. Reliable and maintenance-free cooling systems help to make production more efficient.



Air Conditioning

Uninterrupted cooling processes and air conditioning ensure an ambient and comfortable environment at workplaces, residential buildings and hospitals.

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



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, CO2 footprint, and many more.

Use the online calculator
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

Product range

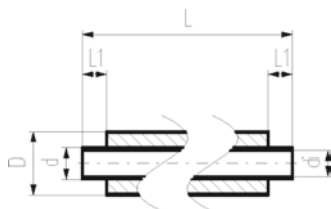
COOL-FIT 2.0



Table of contents

COOL-FIT 2.0 Pipes and Fittings	22
COOL-FIT 2.0 Transition Fittings	30
COOL-FIT 2.0 Flexible Hoses	46
COOL-FIT 2.0 Valves	47
COOL-FIT 2.0 Accessories	62
COOL-FIT 2.0 Spare parts	72
COOL-FIT 2.0 Push System Pipes and Fittings	76
COOL-FIT 2.0 Push System Valves	80
COOL-FIT 2.0 Push System Accessories	82
COOL-FIT 2.0 Push System Tools	85

COOL-FIT 2.0 Pipes and Fittings



COOL-FIT 2.0 Pipe

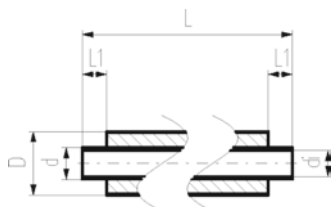
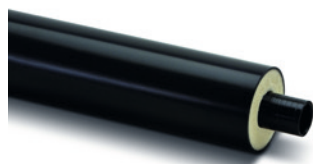
Model:

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

Note:

bigger dimensions available via COOL-FIT 4.0 product range

d (mm)	d/D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg/m)	di (mm)	L (mm)	L1 (mm)	closest inch (inch)
32	32/75	25	11	16	738 174 108	1.140	26.2	5000	36	1
40	40/90	32	11	16	738 174 109	1.534	32.6	5000	40	1 ¼
50	50/90	40	11	16	738 174 110	1.722	40.8	5000	44	1 ½
63	63/110	50	11	16	738 174 111	2.711	51.4	5000	48	2
75	75/125	65	11	16	738 174 112	3.405	61.4	5000	55	2 ½
90	90/140	80	11	16	738 174 113	4.320	73.5	5000	62	3
110	110/160	100	11	16	738 174 114	5.692	90.0	5000	72	4
140	140/200	125	11	16	738 174 116	9.021	114.6	5000	84	5



COOL-FIT 2.0F Pipe Fire retardant

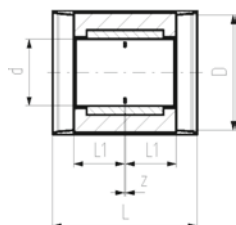
Model:

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

Note:

Bigger dimensions available via COOL-FIT 4.0F product range

d (mm)	d/D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg/m)	di (mm)	L (mm)	L1 (mm)	closest inch (inch)
32	32/75	25	11	16	738 174 308	1.140	26.2	5000	36	1
40	40/90	32	11	16	738 174 309	1.534	32.6	5000	40	1 ¼
50	50/90	40	11	16	738 174 310	1.722	40.8	5000	44	1 ½
63	63/110	50	11	16	738 174 311	2.711	51.4	5000	48	2
75	75/125	65	11	16	738 174 312	3.405	61.4	5000	55	2 ½
90	90/140	80	11	16	738 174 313	4.320	73.6	5000	62	3
110	110/160	100	11	16	738 174 314	5.692	90.0	5000	72	4
140	140/200	125	11	16	738 174 316	9.021	114.6	5000	84	5



COOL-FIT 2.0 Coupler

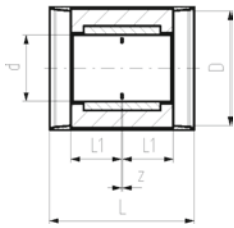
Model:

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

Note:

bigger dimensions available via COOL-FIT 4.0 product range

d (mm)	d/D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)	closest inch (inch)
32	32/75	25	11	16	738 914 108	0.092	113	36	5	1
40	40/90	32	11	16	738 914 109	0.126	121	40	3	1 ¼
50	50/90	40	11	16	738 914 110	0.160	129	44	3	1 ½



d (mm)	d/D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)	closest inch (inch)
63	63/110	50	11	16	738 914 111	0.237	137	48	3	2
75	75/125	65	11	16	738 914 112	0.339	152	55	3	2 ½
90	90/140	80	11	16	738 914 113	0.476	166	62	4	3
110	110/160	100	11	16	738 914 114	0.778	188	72	4	4
140	140/200	125	11	16	738 914 116	1.097	210	84	3	5



A



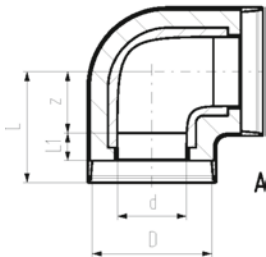
B

COOL-FIT 2.0 Elbow 90°

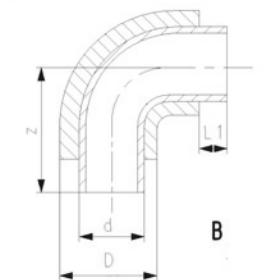
Model:

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a moisture-proof and vapour tight sealing
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)

d (mm)	d/D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)	closest inch (inch)	Type
32	32/75	25	11	16	738 104 108	0.127	75	36	20	1	A
40	40/90	32	11	16	738 104 109	0.185	82	40	23	1 ¼	A
50	50/90	40	11	16	738 104 110	0.242	93	44	30	1 ½	A
63	63/110	50	11	16	738 104 111	0.384	101	48	34	2	A
75	75/125	65	11	16	738 104 112	0.510	114	55	40	2 ½	A
90	90/140	80	11	16	738 104 113	0.960	144	62	63	3	A
110	110/160	90	11	16	738 104 114	1.406	168	72	77	4	A
140	140/200	125	11	16	738 104 116	2.690		84	221	5	B



A



B

COOL-FIT 2.0 Elbow 45°

Model:

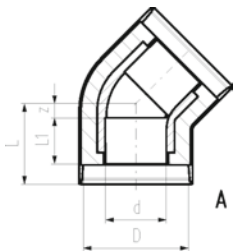
- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a moisture-proof and vapour tight sealing
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)



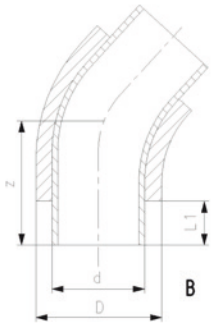
A



B



A



B

d (mm)	d/D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)	closest inch (inch)	Type
32	32/75	25	11	16	738 154 108	0.101	66	36	11	1	A
40	40/90	32	11	16	738 154 109	0.143	70	40	11	1 ¼	A
50	50/90	40	11	16	738 154 110	0.206	76	44	13	1 ½	A
63	63/110	50	11	16	738 154 111	0.307	83	48	16	2	A
75	75/125	65	11	16	738 154 112	0.407	92	55	18	2 ½	A
90	90/140	80	11	16	738 154 113	0.686	111	62	30	3	A
110	110/160	90	11	16	738 154 114	1.123	132	72	41	4	A
140	140/200	125	11	16	738 154 116	1.967		84	164	5	B

COOL-FIT 2.0 Tee 90° equal

Model:

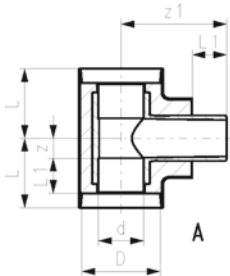
- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a moisture-proof and vapour tight sealing
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)



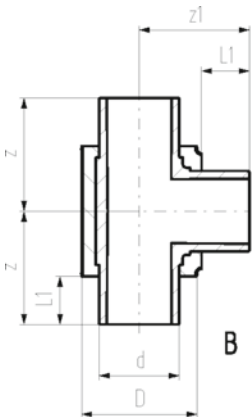
A



B



A



B

d (mm)	d/D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)
32	32/75	25	11	16	738 204 108	0.154
40	40/90	32	11	16	738 204 109	0.230
50	50/90	40	11	16	738 204 110	0.306
63	63/110	50	11	16	738 204 111	0.492
75	75/125	65	11	16	738 204 112	0.673
90	90/140	80	11	16	738 204 113	1.022
110	110/160	100	11	16	738 204 114	1.751
140	140/200	125	11	16	738 204 116	3.317

d (mm)	d/D (mm)	L (mm)	L1 (mm)	z (mm)	z1 (mm)	closest inch (inch)	Type
32	32/75	73	36	18	98	1	A
40	40/90	81	40	22	112	1 ¼	A
50	50/90	88	44	25	125	1 ½	A
63	63/110	97	48	30	147	2	A
75	75/125	110	55	36	140	2 ½	A
90	90/140	124	62	43	161	3	A
110	110/160	148	72	57	184	4	A
140	140/200		84	198	193	5	B

COOL-FIT 2.0 Tee 90° reduced

Model:

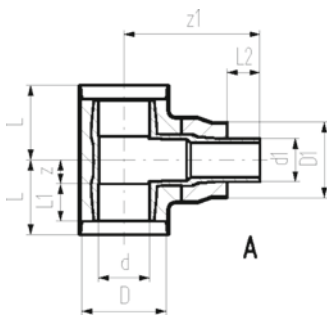
- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a moisture-proof and vapour tight sealing. Branch with free pipe end.
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)



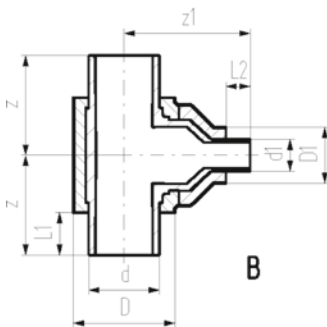
A



B



A



B

d (mm)	d/D (mm)	d1/D1 (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)
75	75/125	63/110	65	11	16	738 204 218	0.746
90	90/140	63/110	80	11	16	738 204 222	1.096
90	90/140	75/125	80	11	16	738 204 223	1.133
110	110/160	63/110	100	11	16	738 204 227	1.746
110	110/160	75/125	100	11	16	738 204 228	1.782
110	110/160	90/140	100	11	16	738 204 229	1.848
140	140/200	63/110	125	11	16	738 204 340	3.441
140	140/200	75/125	125	11	16	738 204 341	3.504
140	140/200	90/140	125	11	16	738 204 342	3.569
140	140/200	110/160	125	11	16	738 204 343	3.620

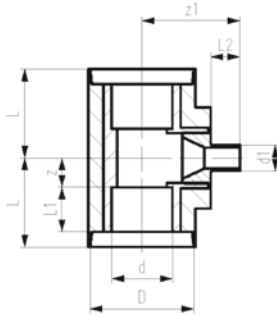
d (mm)	d/D (mm)	d1/D1 (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	z1 (mm)	Closest inch (inch)	Type
75	75/125	63/110	110	55	48	36	200	2 ½ - 2	A
90	90/140	63/110	124	62	48	42	227	3 - 2	A
90	90/140	75/125	124	62	55	42	227	3 - 2 ½	A
110	110/160	63/110	148	72	48	57	245	4 - 2	A
110	110/160	75/125	148	72	55	57	245	4 - 2 ½	A
110	110/160	90/140	148	72	62	57	245	4 - 3	A
140	140/200	63/110		84	48	198	250	5 - 2	B
140	140/200	75/125		84	55	198	262	5 - 2 ½	B
140	140/200	90/140		84	62	198	263	5 - 3	B
140	140/200	110/160		84	72	198	258	5 - 4	B



COOL-FIT 2.0 Tee 90° reduced, short

Model:

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a water and vapour tight sealing
- Space-optimized branch: sealing lip of Fitting Typ A that joins to the branch, needs to be cut and adhesive ring be use



d (mm)	d/D (mm)	d1 (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)
40	40/90	32	32	11	16	738 204 506	0.250
50	50/90	32	40	11	16	738 204 509	0.340
63	63/110	32	50	11	16	738 204 512	0.550
75	75/125	32	65	11	16	738 204 515	0.750
90	90/140	32	80	11	16	738 204 519	1.150
110	110/160	32	100	11	16	738 204 524	2.000

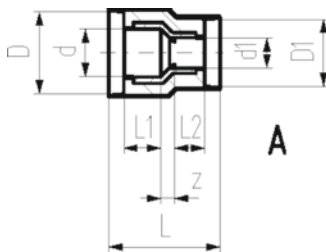
d (mm)	d/D (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	z1 (mm)	Closest inch (inch)	Type
40	40/90	81	40	36	22	108	1 1/4 - 1	A
50	50/90	88	44	36	25	117	1 1/2 - 1	A
63	63/110	97	48	36	30	135	2 - 1	A
75	75/125	110	55	36	36	121	2 1/2 - 1	A
90	90/140	124	62	36	43	135	3 - 1	A
110	110/160	148	72	36	57	148	4 - 1	A



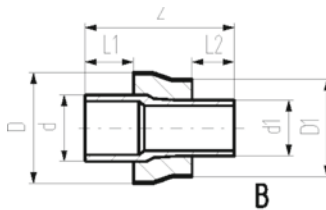
A



B



A



B

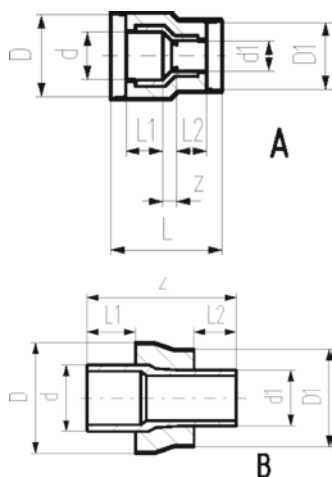
COOL-FIT 2.0 Reducer

Model:

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a moisture-proof and vapour tight sealing
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)

d (mm)	d/D (mm)	d1/D1 (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)
40	40/90	32/75	32	11	16	738 904 206	0.125
50	50/90	32/75	40	11	16	738 904 209	0.154
50	50/90	40/90	40	11	16	738 904 210	0.153
63	63/110	32/75	50	11	16	738 904 212	0.198
63	63/110	40/90	50	11	16	738 904 213	0.221
63	63/110	50/90	50	11	16	738 904 214	0.219
90	90/140	63/110	80	11	16	738 904 222	0.464
110	110/160	90/140	100	11	16	738 904 229	0.799
75	75/125	63/110	65	11	16	738 904 318	0.244
90	90/140	63/110	80	11	16	738 904 322	0.360
90	90/140	75/125	80	11	16	738 904 323	0.395
110	110/160	63/110	100	11	16	738 904 327	0.523
110	110/160	75/125	100	11	16	738 904 328	0.553
110	110/160	90/140	100	11	16	738 904 329	0.599
140	140/200	63/110	125	11	16	738 904 340	0.917
140	140/200	75/125	125	11	16	738 904 341	0.997
140	140/200	90/140	125	11	16	738 904 342	1.039
140	140/200	110/160	125	11	16	738 904 343	1.051

d (mm)	d/D (mm)	d1/D1 (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	Closest inch (inch)	Type
40	40/90	32/75	131	40	36	17	1 1/4 - 1	A
50	50/90	32/75	139	44	36	21	1 1/2 - 1	A
50	50/90	40/90	137	44	40	15	1 1/2 - 1 1/4	A



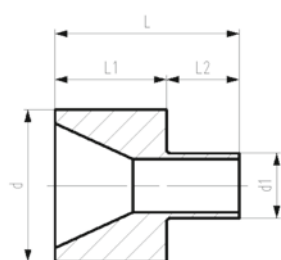
d (mm)	d/D (mm)	d1/D1 (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	Closest inch (inch)	Type
63	63/110	32/75	148	48	36	26	2 - 1	A
63	63/110	40/90	147	48	40	21	2 - 1 ¼	A
63	63/110	50/90	147	48	44	17	2 - 1 ½	A
90	90/140	63/110	187	62	48	39	3 - 2	A
110	110/160	90/140	214	72	62	42	4 - 3	A
75	75/125	63/110		55	48	170	2 ½ - 2	B
90	90/140	63/110		62	48	190	3 - 2	B
90	90/140	75/125		62	55	190	3 - 2 ½	B
110	110/160	63/110		72	48	205	4 - 2	B
110	110/160	75/125		72	55	205	4 - 2 ½	B
110	110/160	90/140		72	62	205	4 - 3	B
140	140/200	63/110		84	48	225	5 - 2	B
140	140/200	75/125		84	55	237	5 - 2 ½	B
140	140/200	90/140		84	62	238	5 - 3	B
140	140/200	110/160		84	72	233	5 - 4	B



COOL-FIT 2.0 Reducer short

Model:

- Spigot fitting PE100 SDR11, metric with free end
- Space-optimized branch: sealing lip of Fitting Typ A that joins to the branch, needs to be cut and adhesive ring be use



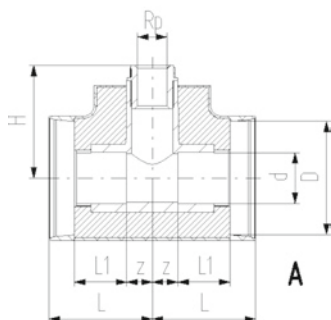
d (mm)	d1 (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)
40	32	32	11	16	738 900 506	0.030	76	40	36
50	32	40	11	16	738 900 509	0.060	80	44	36
50	40	40	11	16	738 900 510	0.060	84	44	40
63	32	50	11	16	738 900 512	0.100	84	48	36
63	40	50	11	16	738 900 513	0.100	88	48	40
63	50	50	11	16	738 900 514	0.100	92	48	44
75	32	65	11	16	738 900 515	0.170	91	55	36
90	32	80	11	16	738 900 519	0.280	98	62	36
110	32	100	11	16	738 900 524	0.500	108	72	36



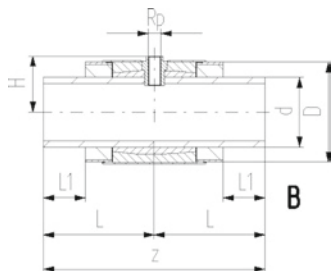
A



B



A



B

COOL-FIT 2.0 Installation fitting type 313 Rp

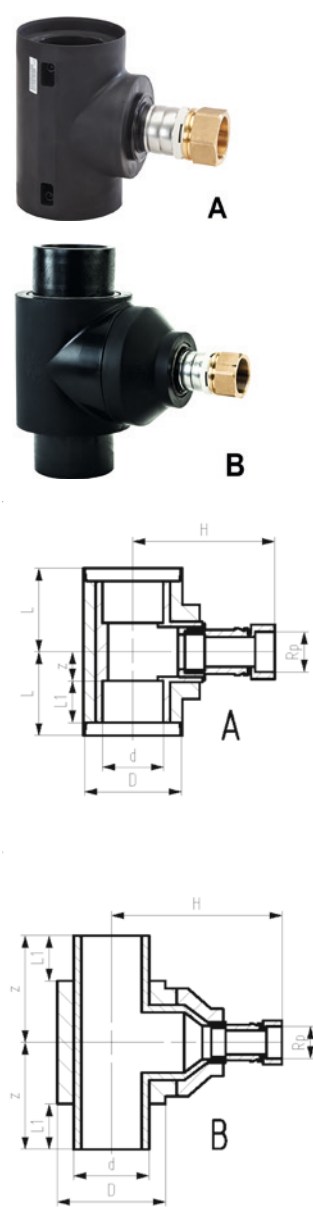
Model:

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

d (mm)	d/D (mm)	Thread Type	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)
32	32/75	Rp	½	25	11	16	738 313 408	0.138
40	40/90	Rp	½	32	11	16	738 313 409	0.216
40	40/90	Rp	¾	32	11	16	738 313 459	0.216
50	50/90	Rp	½	40	11	16	738 313 410	0.308
50	50/90	Rp	¾	40	11	16	738 313 460	0.307
63	63/110	Rp	½	50	11	16	738 313 411	0.493
63	63/110	Rp	¾	50	11	16	738 313 461	0.492
75	75/125	Rp	½	65	11	16	738 313 412	0.678
75	75/125	Rp	¾	65	11	16	738 313 462	0.677
90	90/140	Rp	½	80	11	16	738 313 413	1.025
90	90/140	Rp	¾	80	11	16	738 313 463	1.023
110	110/160	Rp	½	100	11	16	738 313 414	1.765
110	110/160	Rp	¾	100	11	16	738 313 464	1.763
140	140/200	Rp	½	125	11	16	738 313 416	3.406
140	140/200	Rp	¾	125	11	16	738 313 466	3.401

d (mm)	L (mm)	L1 (mm)	z (mm)	H (mm)	Closest inch (inch)	Type
32	73	36	16	75	1	A
40	81	40	21	85	1 ¼	A
40	81	40	21	88	1 ¼	A
50	88	44	24	94	1 ½	A
50	88	44	24	97	1 ½	A
63	97	48	29	113	2	A
63	97	48	29	116	2	A
75	110	55	35	99	2 ½	A
75	110	55	35	102	2 ½	A
90	123	62	42	113	3	A
90	123	62	42	116	3	A
110	148	72	56	128	4	A
110	148	72	56	131	4	A
140	224	84	447	110	5	B
140	224	84	447	113	5	B

COOL-FIT 2.0 Transition Fittings



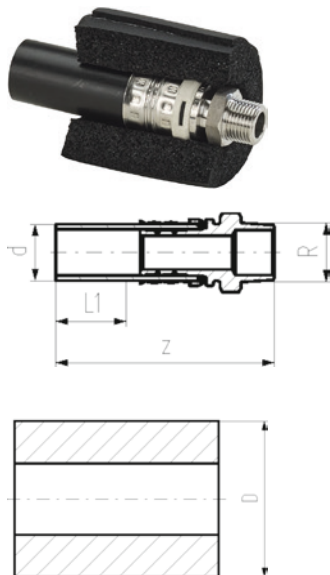
COOL-FIT 2.0 Transition Tee90° PE/brass With female thread Rp

Model:

- Pre-insulated, PE100, SDR11, metric
- Brass CuZn40Pb2 with female thread Rp
- Insulation made from GF HE foam
- Impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a water and vapour tight sealing
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)

d (mm)	d/D (mm)	Thread Type	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)
63	63/110	Rp	2	50	11	16	738 954 061	1.700
75	75/125	Rp	2	65	11	16	738 954 062	1.900
90	90/140	Rp	2	80	11	16	738 954 063	2.300
110	110/160	Rp	2	100	11	16	738 954 064	3.100
140	140/200	Rp	2	125	11	16	738 954 066	4.700

d (mm)	L (mm)	L1 (mm)	z (mm)	H (mm)	closest inch (inch)	Type
63	97	48	29	212	2	A
75	110	55	36	193	2 ½	A
90	124	62	43	210	3	A
110	148	72	57	223	4	A
140		84	447	316	5	B

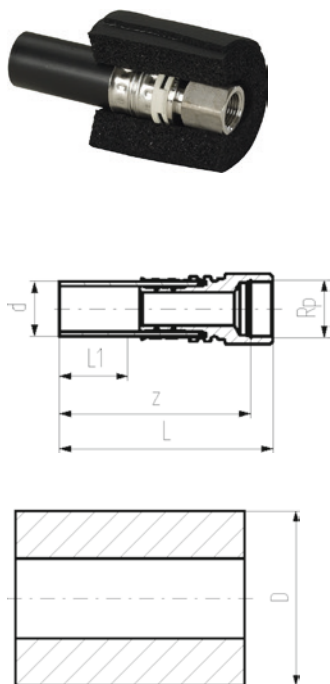


COOL-FIT 2.0 Adaptor fitting PE/stainless steel With male thread R

Model:

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

d (mm)	D (mm)	Thread Type	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L1 (mm)	z (mm)
32	70	R	½	25	11	16	738 944 508	0.194	36	130
32	70	R	¾	25	11	16	738 944 518	0.202	36	134
32	70	R	1	25	11	16	738 944 528	0.211	36	134
40	78	R	1 ¼	32	11	16	738 944 509	0.595	40	156
50	88	R	1 ½	40	11	16	738 944 510	0.954	44	168
63	101	R	2	50	11	16	738 944 511	1.381	48	179



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

Model:

- Spigot fitting PE100 SDR11, metric with free end
- Stainless steel 1.4404 / 316L with female thread Rp
- Gasket: O-ring EPDM
- Including Insulation made from NBR foam

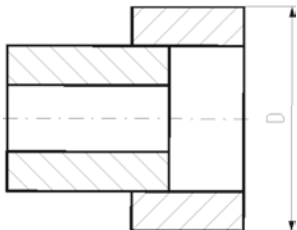
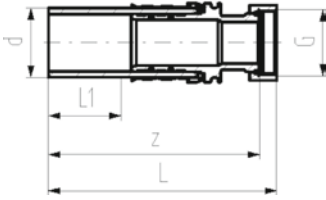
d (mm)	D (mm)	Thread Type	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)
32	70	Rp	½	25	11	16	738 944 008	0.201	132	36	118
32	70	Rp	¾	25	11	16	738 944 018	0.226	132	36	116
32	70	Rp	1	25	11	16	738 944 028	0.251	132	36	115
40	78	Rp	1 ¼	32	11	16	738 944 009	0.626	157	40	141
50	88	Rp	1 ½	40	11	16	738 944 010	0.670	150	44	128
63	101	Rp	2	50	11	16	738 944 011	1.170	164	48	140



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

Model:

- Spigot fitting PE100 SDR11, metric with free end
- Stainless steel 1.4404 / 316L with female thread G
- Including flat seal EPDM
- Including Insulation made from NBR foam



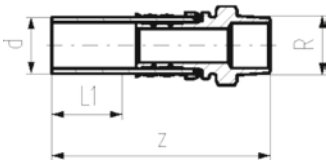
d (mm)	D (mm)	Thread Type	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)
32	70	G	½	25	11	16	738 944 308	0.204	135	36	126
32	70	G	¾	25	11	16	738 944 318	0.219	135	36	129
32	70	G	1	25	11	16	738 944 328	0.317	135	36	129
40	78	G	1 ¼	32	11	16	738 944 309	0.538	155	40	148
40	116	G	1 ½	32	11	16	738 944 319	0.615	157	40	148
50	88	G	1 ½	40	11	16	738 944 310	0.758	164	44	154
63	101	G	2	50	11	16	738 944 311	1.237	186	48	170



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

Model:

- Spigot fitting PE100 SDR11, metric with free end
- Brass CuZn40Pb2 with male thread R
- Gasket: O-ring EPDM
- Including Insulation made from NBR foam



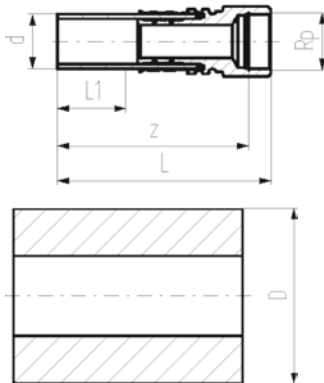
d (mm)	D (mm)	Thread Type	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L1 (mm)	z (mm)
32	70	R	½	25	11	16	738 954 508	0.203	36	130
32	70	R	¾	25	11	16	738 954 518	0.211	36	134
32	70	R	1	25	11	16	738 954 528	0.221	36	134
40	78	R	1 ¼	32	11	16	738 954 509	0.631	40	156
50	88	R	1 ½	40	11	16	738 954 510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



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

Model:

- Spigot fitting PE100 SDR11, metric with free end
- Brass CuZn40Pb2 with female tread Rp
- Gasket: O-ring EPDM
- Including Insulation made from NBR foam



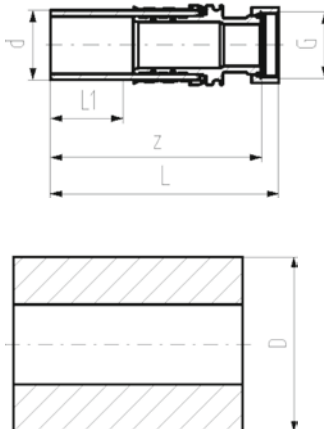
d (mm)	D (mm)	Thread Type	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)
32	70	Rp	1/2	25	11	16	738 954 008	0.210	132	36	118
32	70	Rp	3/4	25	11	16	738 954 018	0.237	132	36	116
32	70	Rp	1	25	11	16	738 954 028	0.264	132	36	115
40	78	Rp	1 1/4	32	11	16	738 954 009	0.667	157	40	141
50	88	Rp	1 1/2	40	11	16	738 954 010	0.713	150	44	128
63	101	Rp	2	50	11	16	738 954 011	1.246	164	48	140



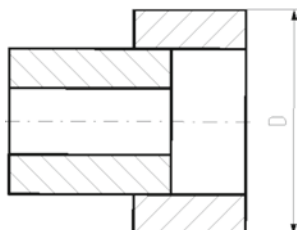
COOL-FIT 2.0 Adaptor fitting PE/brass With loose union nut G

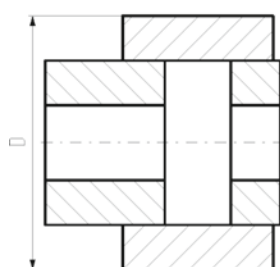
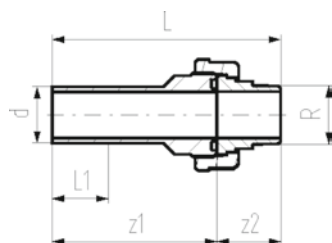
Model:

- Spigot fitting PE100 SDR11, metric with free end
- Brass CuZn40Pb2 with female thread G
- Including flat seal EPDM
- Including Insulation made from NBR foam



d (mm)	D (mm)	Thread Type	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)
32	70	G	3/4	25	11	16	738 954 318	0.224	135	36	126
32	70	G	1	25	11	16	738 954 328	0.263	135	36	129
32	108	G	1 1/4	25	11	16	738 954 338	0.335	137	36	129
40	78	G	1 1/4	32	11	16	738 954 309	0.569	155	40	148
40	116	G	1 1/2	32	11	16	738 954 319	0.650	157	40	148
50	88	G	1 1/2	40	11	16	738 954 310	0.801	164	44	154
63	101	G	2	50	11	16	738 954 311	1.310	186	48	170



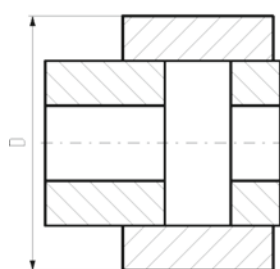
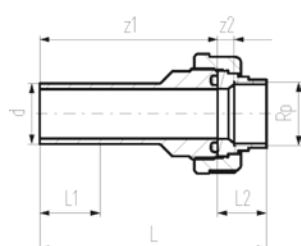


COOL-FIT 2.0 Adaptor union PE/stainless steel With male thread R

Model:

- Union bush: Spigot fitting PE100 SDR11, metric with free end
- Union End: Stainless steel 1.4404 / 316L with male thread R
- Gasket: O-ring EPDM No. 748 410 008-011
- Union Nut: PEGF25
- Including Insulation made from NBR foam

d (mm)	D (mm)	Thread Type	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z1 (mm)	z2 (mm)
32	108	R	1	25	11	16	738 544 708	0.310	147	36	107	40
40	116	R	1 ¼	32	11	16	738 544 709	0.538	163	40	117	46
50	126	R	1 ½	40	11	16	738 544 710	0.660	172	44	124	48
63	139	R	2	50	11	16	738 544 711	1.073	191	48	136	55



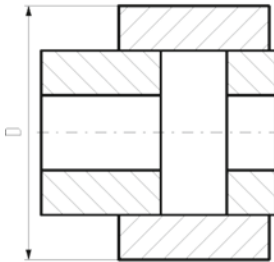
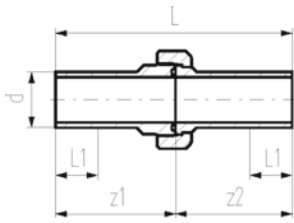
COOL-FIT 2.0 Adaptor union PE/stainless steel With female thread Rp

Model:

- Union bush: Spigot fitting PE100 SDR11, metric with free end
- Union End: Stainless steel 1.4404 / 316L with female thread Rp
- Gasket: O-ring EPDM No. 748 410 008-011
- Union Nut: PEGF25
- Including Insulation made from NBR foam

d (mm)	D (mm)	Thread Type	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)
32	108	Rp	1	25	11	16	738 544 208	0.270
40	116	Rp	1 ¼	32	11	16	738 544 209	0.433
50	126	Rp	1 ½	40	11	16	738 544 210	0.587
63	139	Rp	2	50	11	16	738 544 211	0.883

d (mm)	L (mm)	L1 (mm)	L2 (mm)	z1 (mm)	z2 (mm)
32	136	36	29	107	10
40	150	40	33	118	11
50	158	44	34	124	13
63	175	48	39	136	14

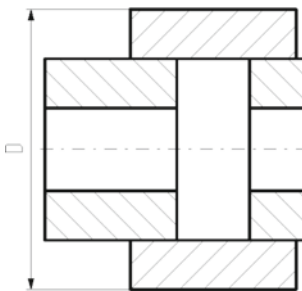
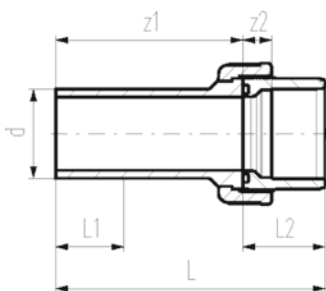


COOL-FIT 2.0 Union PE/PE

Model:

- Union bush: Spigot fitting PE100 SDR11, metric with free end
- Union End: Spigot fitting PE100 SDR11, metric with free end
- Gasket: O-ring EPDM No. 748 410 008-014
- Union Nut: PEGF25
- Including Insulation made from NBR foam

d (mm)	D (mm)	DN (mm)	SDR	PN (bar)	Code	L (mm)	L1 (mm)	z1 (mm)	z2 (mm)
32	108	25	11	16	738 514 608	211	36	107	104
40	116	32	11	16	738 514 609	234	40	118	117
50	126	40	11	16	738 514 610	247	44	124	123
63	139	50	11	16	738 514 611	268	48	136	132
75	151	65	11	10	738 514 612	303	55	154	149
90	166	80	11	10	738 514 613	293	62	149	144
110	186	100	11	10	738 514 614	321	72	162	159



COOL-FIT 2.0 Adaptor Union PE/ABS

Model:

- Union bush: ABS Solvent cement socket
- Union End: Spigot fitting PE100 SDR11, metric with free end
- Gasket: O-ring EPDM No. 748 410 008-014
- Union Nut: ABS
- Including Insulation made from NBR foam

d (mm)	D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	z1 (mm)	z2 (mm)
32	108	25	11	10	738 514 708	0.117	137	36	33	104	11
40	116	32	11	10	738 514 709	0.196	156	40	39	117	13
50	126	40	11	10	738 514 710	0.268	169	44	46	123	15
63	139	50	11	10	738 514 711	0.427	190	48	58	132	21
75	151	65	11	10	738 514 712	0.730	211	55	62	149	18
90	166	80	11	10	738 514 713	0.974	215	62	69	146	19
110	186	100	11	10	738 514 714	1.478	235	72	72	163	11

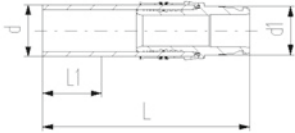
COOL-FIT 2.0 Adaptor fitting PE/iFIT



Model:

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

d	D	d1	DN	SDR	PN	Code	Weight	L	L1	L2
(mm)	(mm)	(mm)	(mm)		(bar)		(kg)	(mm)	(mm)	(mm)
32	70	25-32	25	11	10	738 944 108	0.229	132	36	80



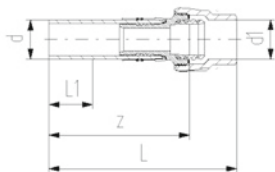
COOL-FIT 2.0 Adaptor fitting PE/Sanipex MT



Model:

- Spigot fitting PE100 SDR11, metric with free end
- Sanipex MT adaptor brass CuZn40Pb2
- Including Insulation made from NBR foam

d	D	DN	PN	SDR	d1	Code	Weight	L	L1	L2	z
(mm)	(mm)	(mm)	(bar)		(mm)		(kg)	(mm)	(mm)	(mm)	(mm)
32	86	25	10	11	32	738 954 118	0.441	174	36	101	135

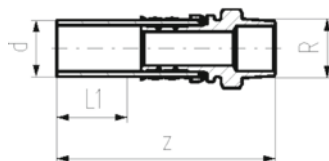


COOL-FIT 2.0/4.0 Adaptor fitting PE/stainless steel With male thread R



Model:

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



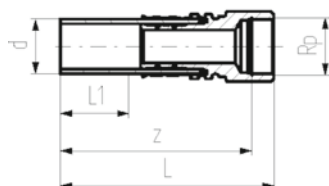
d (mm)	Thread Type	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L1 (mm)	z (mm)
32	R	½	25	11	16	738 940 508	0.179	36	130
32	R	¾	25	11	16	738 940 518	0.187	36	134
32	R	1	25	11	16	738 940 528	0.196	36	134
40	R	1 ¼	32	11	16	738 940 509	0.572	40	156
50	R	1 ½	40	11	16	738 940 510	0.927	44	168
63	R	2	50	11	16	738 940 511	1.347	48	179

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



Model:

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



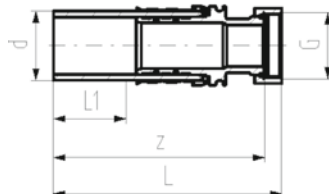
d (mm)	Thread Type	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)
32	Rp	½	25	11	16	738 940 008	0.183	132	36	118
32	Rp	¾	25	11	16	738 940 018	0.208	132	36	116
32	Rp	1	25	11	16	738 940 028	0.233	132	36	115
40	Rp	1 ¼	32	11	16	738 940 009	0.600	157	40	141
50	Rp	1 ½	40	11	16	738 940 010	0.641	150	44	128
63	Rp	2	50	11	16	738 940 011	1.133	164	48	140

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



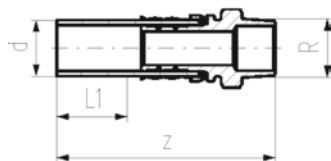
Model:

- Spigot fitting PE100 SDR11, metric with free end
- Stainless steel 1.4404 / 316L with loose union nut G
- Including flat seal EPDM



d (mm)	Thread Type	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)
32	G	½	25	11	16	738 940 308	0.186	133	36	126
32	G	¾	25	11	16	738 940 318	0.201	135	36	129
32	G	1	25	11	16	738 940 328	0.232	135	36	129
40	G	1 ¼	32	11	16	738 940 309	0.512	155	40	148
40	G	1 ½	32	11	16	738 940 319	0.572	157	40	148
50	G	1 ½	40	11	16	738 940 310	0.726	164	44	154
63	G	2	50	11	16	738 940 311	1.195	186	48	170

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

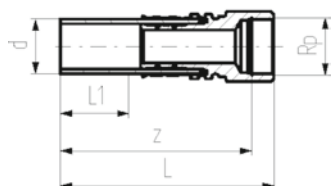


Model:

- Spigot fitting PE100 SDR11, metric with free end
- Brass CuZn40Pb2 with male thread R
- Gasket: O-ring EPDM

d (mm)	Thread Type	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L1 (mm)	z (mm)
32	R	½	25	11	16	738 950 508	0.188	36	130
32	R	¾	25	11	16	738 950 518	0.196	36	134
32	R	1	25	11	16	738 950 528	0.206	36	134
40	R	1 ¼	32	11	16	738 950 519	0.608	40	156
50	R	1 ½	40	11	16	738 950 510	0.986	44	168
63	R	2	50	11	16	738 950 511	1.433	48	179

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

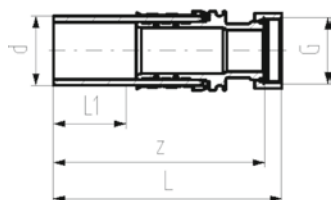


Model:

- Spigot fitting PE100 SDR11, metric with free end
- Brass CuZn40Pb2 with female tread Rp
- Gasket: O-ring EPDM

d (mm)	Thread Type	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)
32	Rp	½	25	11	16	738 950 008	0.192	132	36	118
32	Rp	¾	25	11	16	738 950 018	0.219	132	36	116
32	Rp	1	25	11	16	738 950 028	0.246	132	36	115
40	Rp	1 ¼	32	11	16	738 950 019	0.641	157	40	141
50	Rp	1 ½	40	11	16	738 950 010	0.684	150	44	128
63	Rp	2	50	11	16	738 950 011	1.209	164	48	140

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

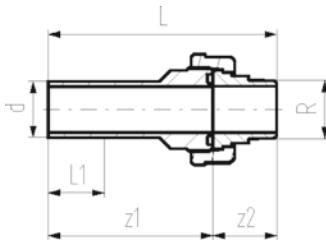


Model:

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

d (mm)	Thread Type	Size (inch)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)
32	G	¾	25	11	16	738 950 318	0.206	135	36	129
32	G	1	25	11	16	738 950 328	0.244	135	36	129
32	G	1 ¼	25	11	16	738 950 338	0.301	137	36	131
40	G	1 ¼	32	11	16	738 950 309	0.543	155	40	148
40	G	1 ½	32	11	16	738 950 319	0.607	157	40	148
50	G	1 ½	40	11	16	738 950 310	0.769	164	44	154
63	G	2	50	11	16	738 950 311	1.268	186	48	170

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

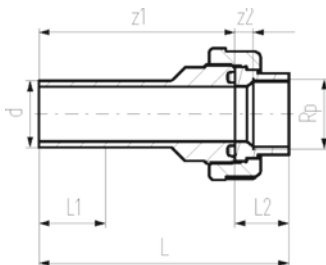


Model:

- Union bush: Spigot fitting PE100 SDR11, metric with free end
- Union End: Stainless steel 1.4404 / 316L with male thread R
- Gasket: O-ring EPDM No. 748 410 008-011
- Union Nut: PEGF25

d (mm)	Thread Type	Size (inch)	DN (mm)	SDR	PN	Code	Weight (kg)	L (mm)	L1 (mm)	z1 (mm)	z2 (mm)
32	R	1	25	11	16	738 540 708	0.276	147	36	107	40
40	R	1 ¼	32	11	16	738 540 709	0.495	163	40	117	46
50	R	1 ½	40	11	16	738 540 710	0.606	172	44	124	48
63	R	2	50	11	16	738 540 711	1.000	191	48	136	55

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

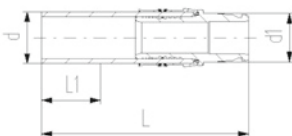


Model:

- Union bush: Spigot fitting PE100 SDR11, metric with free end
- Union End: Stainless steel 1.4404 / 316L with female thread Rp
- Gasket: O-ring EPDM No. 748 410 008-011
- Union Nut: PEGF25

d (mm)	Thread Type	Size (inch)	DN (mm)	SDR	PN	Code	Weight (kg)	L (mm)	L1 (mm)	z1 (mm)	z2 (mm)
32	Rp	1	25	11	16	738 540 208	0.234	147	36	107	40
40	Rp	1 ¼	32	11	16	738 540 209	0.387	163	40	117	46
50	Rp	1 ½	40	11	16	738 540 210	0.530	172	44	124	48
63	Rp	2	50	11	16	738 540 211	0.807	191	48	136	55

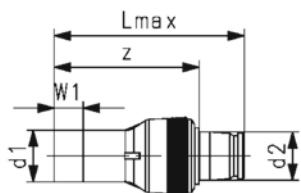
COOL-FIT 2.0/4.0 Adaptor Fitting PE/iFIT



Model:

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

d (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)
32	25	11	10	738 940 108	0.211	132	36	80



COOL-FIT 2.0/4.0 Adaptor fitting PE/iFIT

Model:

- Spigot fitting PE100 SDR11, metric with free end
- Push system module brass

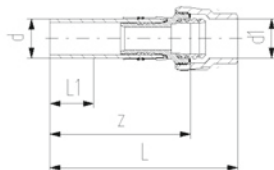
d1 (mm)	d2 (mm)	DN (mm)	SDR	PN (bar)	Code	SP	Weight (kg)	Lmax (mm)	W1 (mm)	z (mm)
32	25/32	25	11	16	738 950 058	1	0.219	115	36	87

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

Model:

- Spigot fitting PE100 SDR11, metric with free end
- Sanipex MT adaptor brass CuZn40Pb2

d (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	d1 (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)
32	25	11	10	738 950 118	0.412	32	174	36	101	135

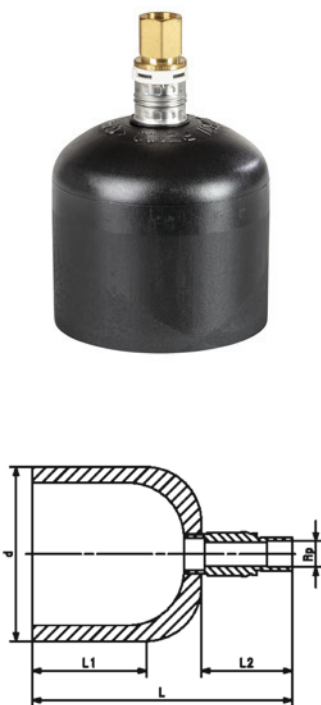


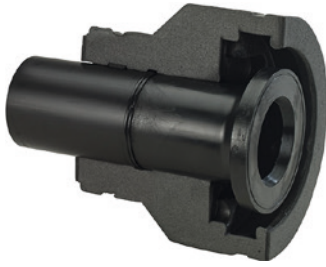
COOL-FIT 2.0/4.0 Transition cap PE/brass With female thread Rp

Model:

- Spigot fitting PE100 SDR11, metric with free end
- Brass CuZn40Pb2 with female tread Rp
- Gasket: O-ring EPDM

d (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	Thread	Size	L (mm)	L1 (mm)	L2 (mm)
32	25	11	16	738 960 008	0.192	Rp	1/2	107	36	69
40	32	11	16	738 960 009	0.193	Rp	1/2	113	40	73
50	40	11	16	738 960 010	0.198	Rp	1/2	117	44	73
63	50	11	16	738 960 011	0.203	Rp	1/2	121	48	73
75	65	11	16	738 960 012	0.361	Rp	1/2	128	55	73
90	80	11	16	738 960 013	0.476	Rp	1/2	135	62	73
110	100	11	16	738 960 014	0.695	Rp	1/2	145	72	73
140	125	11	16	738 960 016	0.954	Rp	1/2	209	84	73
160	150	11	16	738 960 017	1.300	Rp	1/2	193	90	73
225	200	11	16	738 960 020	2.532	Rp	1/2	221	110	73





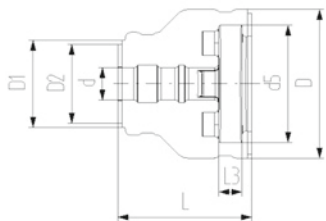
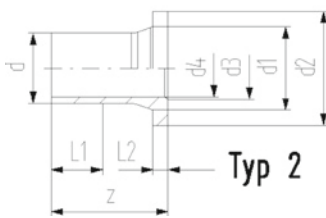
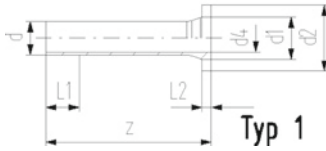
COOL-FIT 2.0/4.0 Flange adaptor

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

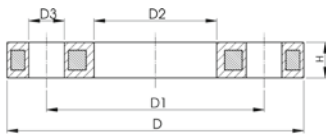
Note:

Backing ring and gasket not included



d	D	d1	D1	d2	D2	DN	SDR	PN	Code	Weight
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)				(kg)
32	135	40	90	68		25	11	16	738 710 008	0.051
32	135	40	90	63	63	25	11	16	738 710 108	0.051
40	170	50	110	78	90	32	11	16	738 710 009	0.075
40	170	50	110	73	73	32	11	16	738 710 109	0.075
50	180	61	110	88	90	40	11	16	738 710 010	0.630
50	180	61	110	82	82	40	11	16	738 710 110	0.110
63	200	75	125	102	110	50	11	16	738 710 011	0.173
75	220	89	140	122	125	65	11	16	738 710 012	1.210
90	240	105	160	138	140	80	11	16	738 710 013	1.193
90	240	105	160	133	133	80	11	16	738 710 113	0.439
110	270	125	180	158	160	100	11	16	738 710 014	1.574
140	300	155	225	188	200	125	11	16	738 710 016	2.412
160	358	174	259	213	213	150	11	16	738 710 017	1.748
225	423	233	325	268	268	200	11	16	738 710 020	10.440

d	L	L1	L2	L3	z	d3	d4	d5	Type	Standard
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		
32	162	36	10	26	190		26	121	1	Metric
32	162	36	10	26	190		26	121	1	ANSI
40	165	40	11	28	197		32	146	1	Metric
40	165	40	11	28	197		32	146	1	ANSI
50	178	44	12	30	214		40	156	1	Metric
50	178	44	12	30	214		40	156	1	ANSI
63	230	48	14	32	270		51	171	1	Metric, ANSI
75	232	55	16	34	279		61	191	2	Metric, ANSI
90	245	62	17	35	299	78	73	206	2	Metric
90	245	62	17	35	299	78	73	206	2	ANSI
110	254	72	18	36	320	100	90	235	2	Metric, ANSI
140	299	84	25	38	383	127	127	256	2	Metric, ANSI
160	332	90	25	34	412	151	131	295	2	Metric, ANSI
225	383	110	32	37	483	209	184	354	2	Metric, ANSI



Flanges PP-Steel

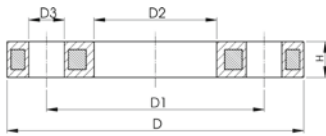
Model:

- 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

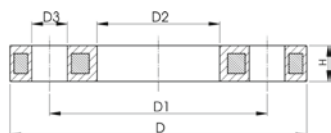
¹⁾ FM 1613 approved – 15 bar

	d (mm)	DN (mm)	D (mm)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
	20	15	95	16	Metric	PN10	Butt/Socket	727 700 206	0.216
	20	15	95	16	ASME	class 150	Butt/Socket	727 701 206	0.213
	25	20	105	16	Metric	PN10	Butt/Socket	727 700 207	0.279
	25	20	105	16	ASME	class 150	Butt/Socket	727 701 207	0.260
	32	25	115	16	Metric	PN10	Butt/Socket	727 700 208	0.429
	32	25	115	16	ASME	class 150	Butt/Socket	727 701 208	0.416
	40	32	140	16	Metric	PN10	Butt/Socket	727 700 209	0.621
	40	32	140	16	ASME	class 150	Butt/Socket	727 701 209	0.730
	50	40	150	16	Metric	PN10	Butt/Socket	727 700 210	0.722
	50	40	150	16	ASME	class 150	Butt/Socket	727 701 210	0.809
	63	50	165	16	Metric	PN10	Butt/Socket	727 700 211	0.900
	63	50	165	16	ASME	class 150	Butt/Socket	727 701 211	0.866
	75	65	185	16	Metric	PN10	Butt/Socket	727 700 212	1.110
	75	65	185	16	ASME	class 150	Butt/Socket	727 701 212	1.117
1	90	80	200	16	Metric	PN10	Butt	724 700 313	1.390
	90	80	200	16	Metric	PN10	Socket	727 700 213	1.369
	90	80	200	16	Metric	PN10	Butt	727 700 313	1.390
	90	80	200	16	ASME	class 150	Socket	727 701 213	1.492
	90	80	200	16	ASME	class 150	Butt	727 701 313	1.499
1	110	100	223	16	Metric	PN10	Butt	724 700 314	1.407
	110	100	220	16	Metric	PN10	Socket	727 700 214	1.522
	110	100	220	16	Metric	PN10	Butt	727 700 314	1.407
	110	100	229	16	ASME	class 150	Socket	727 701 214	1.695
	110	100	229	16	ASME	class 150	Butt	727 701 314	1.739
1	125	125	223	16	Metric	PN10	Butt	724 700 315	1.408
	125	125	220	16	Metric	PN10	Butt	727 700 315	1.408
	125	125	250	16	Metric	PN10	Socket	727 700 815	2.475
1	140	125	250	16	Metric	PN10	Butt	724 700 316	2.300
	140	125	250	16	Metric	PN10	Butt	727 700 716	2.318
	140	125	250	16	Metric	PN10	Socket	727 700 816	2.033
1	160	150	285	16	Metric	PN10	Butt	724 700 317	3.500
	160	150	285	16	Metric/ASME	PN10/ class 150	Butt	727 700 717	3.491
	160	150	285	16	Metric/ASME	PN10/ class 150	Socket	727 700 817	3.167
1	180	150	285	16	Metric	PN10	Butt	724 700 318	3.100
	180	150	285	16	Metric	PN10	Butt	727 700 718	3.108
1	200	200	344	16	Metric	PN16	Butt	724 700 319	3.549
	200	200	340	16	Metric/ASME	PN10/ class 150	Butt	727 700 719	5.600
	200	200	340	16	Metric/ASME	PN10/ class 150	Socket	727 700 819	6.143
1	225	200	344	16	Metric	PN16	Butt	724 700 320	3.380
	225	200	340	16	Metric/ASME	PN10/ class 150	Butt	727 700 720	5.533
	225	200	340	16	Metric/ASME	PN10/ class 150	Socket	727 700 820	4.448
1	250	250	410	16	Metric	PN16	Butt	724 700 321	6.390
	250	225	395	16	Metric	PN10	Socket	727 700 031	8.340
	250	250	395	16	Metric	PN10	Butt	727 700 721	6.632
	250	250	395	16	Metric	PN10	Socket	727 700 821	7.179
1	280	250	410	16	Metric	PN16	Butt	724 700 322	6.310
	280	250	395	16	Metric	PN10	Butt	727 700 722	6.573
	280	250	395	16	Metric	PN10	Socket	727 700 822	5.547
1	315	300	455	16	Metric	PN16	Butt	724 700 323	9.740
	315	300	445	16	Metric	PN10	Butt	727 700 723	7.903



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

	d (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
	20	65	28	14	12	4	M12
	20	60	28	16	12	4	M12
	25	75	34	14	12	4	M12
	25	70	34	16	12	4	M12
	32	85	42	14	16	4	M12
	32	79	42	16	16	4	M12
	40	100	51	18	16	4	M16
	40	89	51	16	16	4	M16
	50	110	62	18	20	4	M16
	50	98	62	16	18	4	M16
	63	125	78	18	20	4	M16
	63	121	78	19	18	4	M16
	75	145	92	18	20	4	M16
	75	140	92	19	18	4	M16
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	200	295	235	22	31	12	M20
	200	295	235	22	27	8	M20
	200	295	226	22	29	8	M20
1	225	295	238	22	31	12	M20
	225	295	238	22	27	8	M20
	225	295	250	22	29	8	M20



	d (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
1	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	280	355	294	26	36	12	M24
	280	350	294	22	30	12	M20
	280	350	310	22	32	12	M20
1	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	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	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	450	620	517	26	56	20	M24
1	500	620	533	26	56	20	M24
	560	725	618	30	68	20	M27
	630	725	645	30	68	20	M27
	710	840	740	30	49	24	M27
	800	950	843	33	58	24	M30
	900	1050	947	33	62	28	M30
	250	362	293	25	30	12	M24
	450	635	540	32	53	20	M30

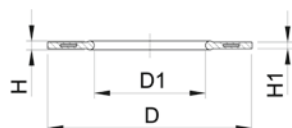


Profile Flange Gasket EPDM/FKM metric

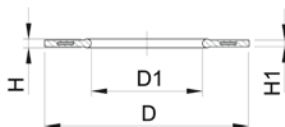
Model:

- For all metric GF Flange Adaptors
- Hardness: 70° Shore EPDM, 75° Shore FKM
- EPDM: approved acc. to DVGW Water W 270, KTW recommendation
- Centering on the inner diameter of the screw crown
- material steel insert: carbon steel
- Rubber-steel body combined with rubber profile cord ring up to d630
- Rubber-steel body ideal for big dimensions (d710 - d1000)

di FA are the suitable inner diameters of flanges adaptors



d (mm)	D (mm)	di FA (mm)	D1 (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	Weight (kg)	H (mm)	H1 (mm)
16	46	6 - 16	16	10	16	748 440 705	749 440 705	0.012	4	3
20	51	10 - 20	20	15	16	748 440 706	749 440 706	0.013	4	3
25	61	12 - 22	22	20	16	748 440 707	749 440 707	0.014	4	3
32	71	18 - 28	28	25	16	748 440 708	749 440 708	0.019	4	3
40	82	30 - 40	40	32	16	748 440 709	749 440 709	0.026	4	3
50	92	36 - 46	46	40	16	748 440 710	749 440 710	0.039	4	3
63	107	48 - 58	58	50	16	748 440 711	749 440 711	0.050	5	4
75	127	59 - 69	69	65	16	748 440 712	749 440 712	0.082	5	4
90	142	73 - 84	84	80	16	748 440 713	749 440 713	0.083	5	4
110	162	94 - 104	104	100	16	748 440 714	749 440 714	0.127	6	5
125	162	113 - 123	123	100	16	748 440 715	749 440 715	0.105	6	5
140	192	127 - 137	137	125	16	748 440 716	749 440 716	0.173	6	5
160 - 180	218	150 - 160	160	150	16	748 440 717	749 440 717	0.207	8	6
200	273	192 - 203	203	200	16	748 440 719	749 440 719	0.263	8	6
225	273	207 - 220	220	200	16	748 440 720	749 440 720	0.255	8	6
250	328	238 - 252	252	250	16	748 440 721	749 440 721	0.462	8	6
280	328	264 - 274	274	250	16	748 440 722	749 440 722	0.323	8	6



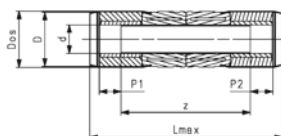
d (mm)	D (mm)	di FA (mm)	D1 (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	Weight (kg)	H (mm)	H1 (mm)
315	378	296 - 306	306	300	16	748 440 723	749 440 723	0.549	8	6
355	438	340 - 355	355	350	16	748 440 724	749 440 724	0.870	10	7
400	489	385 - 400	400	400	16	748 440 725	749 440 725	1.088	10	7
450	594	393 - 403	403	500	10	748 440 726	749 440 726	0.718	10	7
500	594	437 - 447	447	500	10	748 440 727	749 440 727	0.718	10	7
560	695	484 - 494	494	600	10	748 440 728	749 440 728	0.923	10	7
630	695	545 - 555	555	600	10	748 440 729	749 440 729	0.923	10	7
710	810	562 - 712	712	700	6	748 440 730		0.890	6	3
800	917	663 - 813	813	800	6	748 440 731		1.340	6	3
900	1017	765 - 915	915	900	6	748 440 732		1.170	6	3
1000	1124	866 - 1016	1016	1000	6	748 440 733		1.360	6	3



COOL-FIT 2.0 Sliding coupler kit

Model:

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- Integrated sealing lip, for a moisture-proof and vapour tight sealing
- Including two couplers, pipe section and four insulation half shells



d (mm)	d/D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	Lmax (mm)	z (mm)	P1 (mm)	P2 (mm)	Dos (mm)
32	32/75	25	11	16	738 914 508	0.311	376	268	36	36	82
40	40/90	32	11	16	738 914 509	0.446	402	284	40	40	97
50	50/90	40	11	16	738 914 510	0.589	422	296	44	44	97
63	63/110	50	11	16	738 914 511	0.907	452	318	48	48	117
75	75/125	65	11	16	738 914 512	1.309	493	344	55	55	133
90	90/140	80	11	16	738 914 513	1.890	532	370	62	62	148
110	110/160	100	11	16	738 914 514	3.078	604	420	72	72	168
140	140/200	125	11	16	738 914 516	4.851	673	466	84	84	208

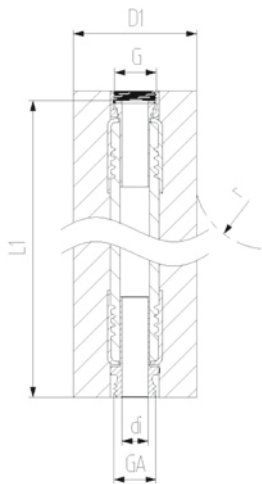
COOL-FIT 2.0 Flexible Hoses

COOL-FIT 2.0 Flexible hose



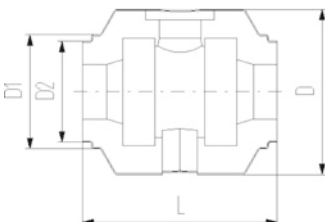
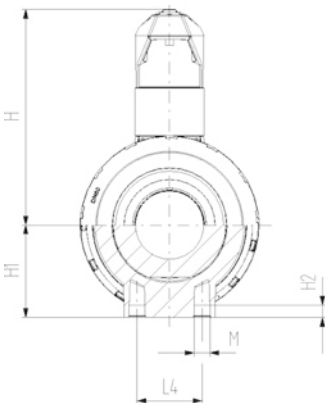
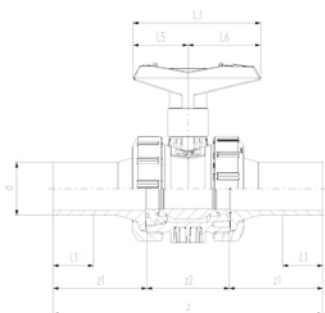
Model:

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



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

COOL-FIT 2.0 Valves



COOL-FIT 2.0 Ball valve hand-operated

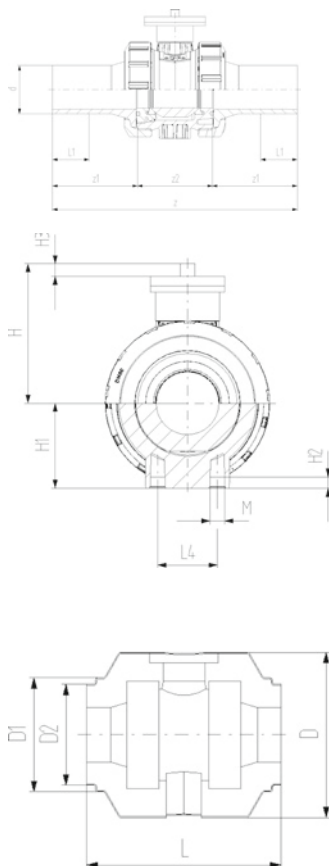
Model:

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

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

d (mm)	DN (mm)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	H (mm)	H1 (mm)	H2 (mm)	z (mm)	z1 (mm)
32	25	135	97	82	152	36	93		34	59	97	34		223	76
40	32	157	117	97	170	40	110		41	69	114	42		249	82
50	40	169	117	97	184	44	180		41	69	120	49		271	91
63	50	204	132	117	227	48	128		49	79	141	62		321	110
75	65	235	147	132	276	55	270	70	64	206	194	85	15	386	125
90	80	255	168	147	297	62	270	70	64	206	200	105	15	421	140

d (mm)	DN (mm)	z2 (mm)	M	Closest inch (inch)	Type
32	25	71		1	542
40	32	85		1 ¼	542
50	40	89		1 ½	542
63	50	101		2	542
75	65	136	M8	2 ½	546
90	80	141	M8	3	546



COOL-FIT 2.0 Ball valve type 546 Pro bare shaft

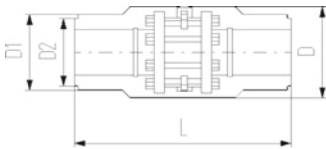
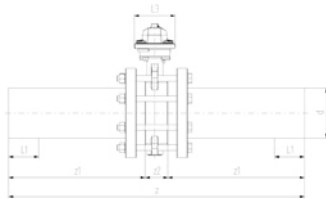
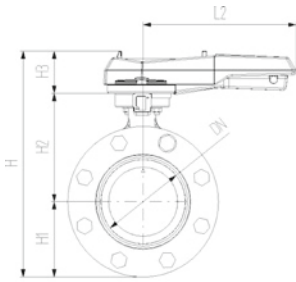
Model:

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

d (mm)	DN (mm)	PN	kv-value ($\Delta p=1$ bar) (l/min)	SDR	EPDM Code	Weight (kg)
32	25	16	700	11	138 546 408	0.560
40	32	16	1000	11	138 546 409	0.900
50	40	16	1600	11	138 546 410	1.190
63	50	16	3100	11	138 546 411	0.100
75	65	16	5000	11	138 546 412	5.550
90	80	16	7000	11	138 546 413	8.150

d (mm)	DN (mm)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	z (mm)	z1 (mm)	z2 (mm)	M
32	25	135	97	82	152	36	72	36	12	11	223	76	71	M6
40	32	157	117	97	170	40	84	44	15	11	249	82	85	M8
50	40	169	117	97	184	44	90	51	15	11	271	91	89	M8
63	50	204	132	117	227	48	105	64	15	10	321	110	101	M8
75	65	235	147	132	276	55	177	85	15	21	386	125	136	M8
90	80	235	168	147	297	62	189	105	15	21	421	140	141	M8

d (mm)	DN (mm)	Closest inch (inch)	Hole pattern
32	25	1	F05/F03
40	32	1 ¼	F05/F03
50	40	1 ½	F05/F03
63	50	2	F05/F03
75	65	2 ½	F07
90	80	3	F07



COOL-FIT 2.0 Wafer-style butterfly valve kit type 567 Hand lever with ratchet settings

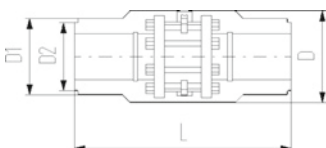
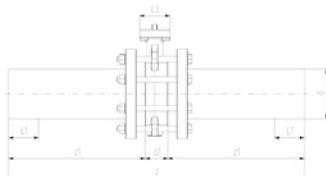
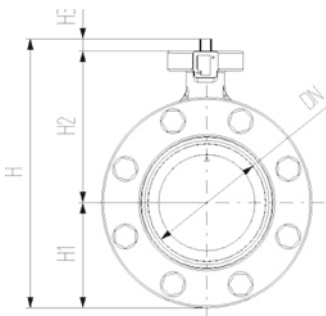
Model:

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

d (mm)	DN (mm)	PN	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)
110	100	10	6500	138 567 314	3.500
140	125	10	11500	138 567 316	4.500

d (mm)	DN (mm)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	z (mm)	z1 (mm)	z2 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)
110	100	260	188	168	552	72	255	106	696	320	56	325	104	167	55
140	125	287	233	208	662	84	255	106	830	383	64	352	117	181	55

d (mm)	DN (mm)	closest inch (inch)
110	100	4
140	125	5



COOL-FIT 2.0 Butterfly valve kit type 567 PVC-U Bare shaft

Model:

- Material: PVC-U with spigot PE100 SDR11, metric
- Interface F07 according to DIN/ISO 5211
- Including flange adaptors, backing flanges PP-Steel, bolts and insulation half shells

d (mm)	DN (mm)	PN	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code
110	100	10	6500	138 567 414
140	125	10	11500	138 567 416

d (mm)	DN (mm)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	L3 (mm)	z (mm)	z1 (mm)	z2 (mm)	H1 (mm)	H2 (mm)	H3 (mm)	closest inch (inch)
110	100	260	188	168	552	72	106	696	320	56	104	167	55	4
140	125	287	233	208	662	84	106	830	383	64	117	181	55	5



Wafer-style, intermediate installation butterfly valve type 565 PVDF/PA-GF

With hand lever

Flange standard metric/ANSI/BS/JIS

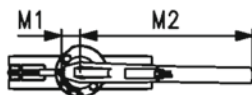
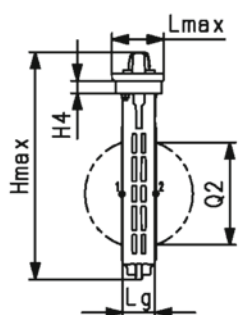
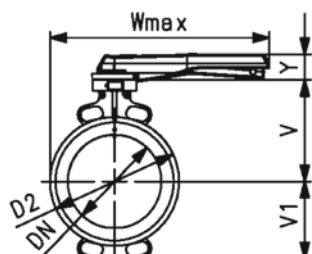
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

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



DN (mm)	PN (bar)	d (mm)	Size (inch)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
50	16	63	2	1445	199 565 000	1	1.3	199 565 020	1	1.4
65	16	75	2 ½	2530	199 565 001	1	1.5	199 565 021	1	1.6
80	16	90	3	4020	199 565 002	1	1.7	199 565 022	1	1.8
100	16	110	4	5850	199 565 003	1	2.5	199 565 023	1	2.7
125	16	140	5	11900	199 565 004	1	3.1	199 565 024	1	3.3
150	16	160	6	18050	199 565 005	1	4.0	199 565 025	1	4.3
200	10	225	8	43667	199 565 006	1	5.3	199 565 026	1	5.7

DN (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)
50	100.0	264.0	249.5	96.0	23.0	133.5	63.0	43.0	35.5	204.5	53.0	28.5
65	121.0	271.0	275.5	96.0	23.0	140.0	82.0	46.0	35.5	204.5	53.0	44.0
80	138.0	273.5	288.0	96.0	23.0	146.0	89.0	46.0	35.5	204.5	53.0	63.5
100	158.5	334.0	324.0	96.0	23.0	166.5	104.0	52.0	35.5	254.5	53.0	84.0
125	187.0	348.0	351.0	96.0	23.0	180.0	118.0	56.0	35.5	254.5	53.0	110.5
150	213.0	426.0	372.5	96.0	23.0	189.0	130.5	56.0	35.5	319.5	53.0	137.5
200	267.0	453.0	422.0	96.0	23.0	209.5	159.0	60.0	35.5	319.5	53.0	190.5



Wafer-style, intermediate installation butterfly valve type 565 PVDF/PA-GF

Bare shaft

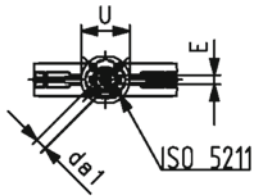
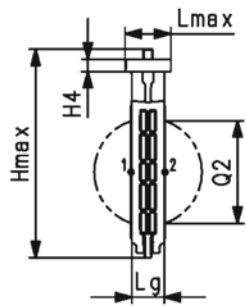
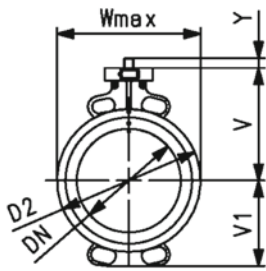
Flange standard metric/ANSI/BS/JIS Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

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

Option:

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

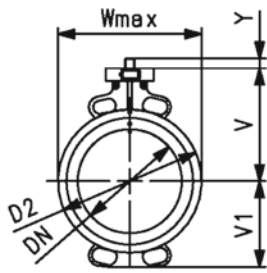


d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Ap=1 bar) (L/min)	Acc.to ISO 5211	EPDM Code	SP	Weight (kg)
63	50	2	16	1445	F07	199 565 100	1	0.9
75	65	2 ½	16	2530	F07	199 565 101	1	1.1
90	80	3	16	4020	F07	199 565 102	1	1.3
110	100	4	16	5850	F07	199 565 103	1	2.0
140	125	5	16	11900	F07	199 565 104	1	2.6
160	150	6	16	18050	F07	199 565 105	1	3.7
225	200	8	10	43667	F07	199 565 106	1	4.7
280	250	10	10	62333	F10	199 565 107	1	8.8
315	300	12	6	94500	F10	199 565 108	1	12.6

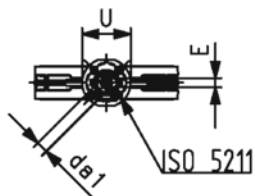
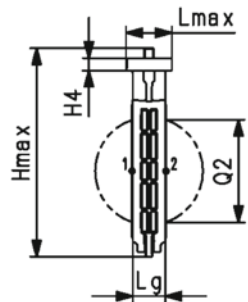
d (mm)	DN (mm)	Size (inch)	FKM Code	SP	Weight (kg)
63	50	2	199 565 120	1	1.0
75	65	2 ½	199 565 121	1	1.2
90	80	3	199 565 122	1	1.4
110	100	4	199 565 123	1	2.2
140	125	5	199 565 124	1	2.9
160	150	6	199 565 125	1	3.8
225	200	8	199 565 126	1	5.2
280	250	10	199 565 127	1	9.5
315	300	12	199 565 128	1	13.7

d (mm)	DN (mm)	Size (inch)	D2 (mm)	Wmax (mm)	Lmax (mm)	Hmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	da1 (mm)	E (mm)	U (mm)	Y (mm)
63	50	2	100.0	118.5	85.5	222.5	23.0	133.5	63.0	43.0	14.1	11.0	90.0	27.0
75	65	2 ½	121.0	132.5	85.5	248.5	23.0	140.0	82.0	46.0	14.1	11.0	90.0	27.0
90	80	3	138.0	138.0	85.5	261.0	23.0	146.0	89.0	46.0	14.1	11.0	90.0	27.0
110	100	4	158.5	158.5	85.5	286.0	23.0	166.5	104.0	52.0	18.1	14.0	90.0	16.0
140	125	5	187.0	187.0	85.5	313.5	23.0	180.0	118.0	56.0	18.1	14.0	90.0	16.0
160	150	6	213.0	213.0	85.5	337.5	23.0	189.0	130.5	56.0	22.2	17.0	90.0	19.0
225	200	8	267.0	267.0	85.5	387.0	23.0	209.5	159.0	60.0	22.2	17.0	90.0	18.5
280	250	10	325.5	325.5	125.0	498.5	23.0	262.5	195.5	68.0	28.2	22.0	125.0	40.5
315	300	12	380.0	380.0	125.0	555.0	23.0	284.5	230.5	78.0	28.2	22.0	125.0	40.5

d (mm)	DN (mm)	Size (inch)	Q2 (mm)
63	50	2	28.5
75	65	2 ½	44.0
90	80	3	63.5
110	100	4	84.0
140	125	5	110.5



d	DN	Size	Q2
(mm)	(mm)	(inch)	(mm)
160	150	6	137.5
225	200	8	190.5
280	250	10	239.0
315	300	12	285.5

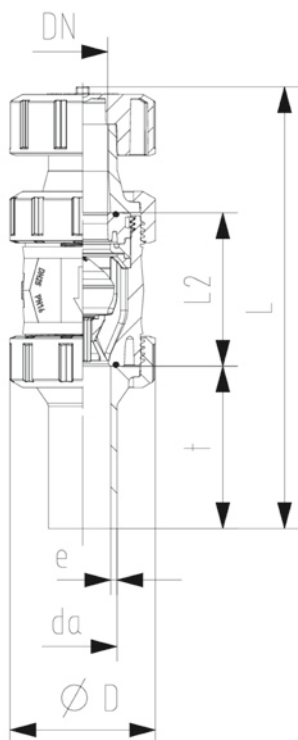




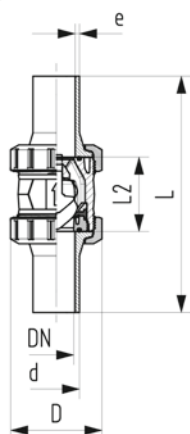
ecoFIT Ventilating and bleed valve Type 591
With butt fusion spigots long
PE100 SDR11 metric

Model:

- Material: PVC-U/PE
- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length



d	DN	PN	EPDM	FKM	D	L	L2	t	e	closest inch
(mm)	(mm)	(bar)	Code	Code	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)
20	15	16	161 591 121	161 591 130	50	175	56	69	2.25	½
25	20	16	161 591 122	161 591 131	58	195	65	76	2.30	¾
32	25	16	161 591 123	161 591 132	68	207	71	76	2.90	1
40	32	16	161 591 124	161 591 133	84	230	85	82	3.70	1 ¼
50	40	16	161 591 125	161 591 134	97	254	89	91	4.60	1 ½
63	50	16	161 591 126	161 591 135	124	298	101	110	5.80	2
75	65	16	161 591 127	161 591 136	166	334	136	125	6.80	2 ½
90	80	16	161 591 128	161 591 137	200	360	141	140	8.20	3
110	100	16	161 591 129	161 591 138	238	411	164	160	10.00	4



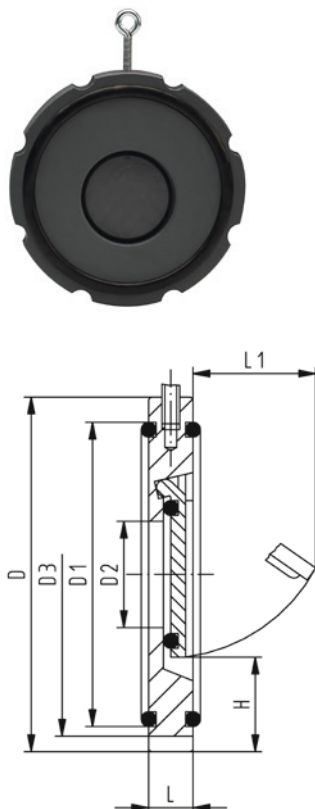
ecoFIT Check valve type 561 PVC-U
Without spring
With butt fusion spigots long PE100 SDR11 metric

Model:

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

d	DN	Size	PN	kv-value	SDR	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)		Code	(kg)	Code	(kg)
				(l/min)					
20	15	½	16	180	11	161 561 142	0.130	800 050 344	0.130
25	20	¾	16	380	11	161 561 143	0.260	800 050 345	0.250
32	25	1	16	460	11	161 561 144	0.300	800 050 346	0.320
40	32	1 ¼	16	850	11	161 561 145	0.520	800 050 308	0.530
50	40	1 ½	16	1080	11	161 561 146	0.780	800 050 347	0.810
63	50	2	16	1670	11	161 561 147	1.410	800 050 348	1.530
75	65	2 ½	10	2950	11	161 561 148	3.260	800 050 837	3.160
90	80	3	10	3600	11	161 561 149	5.170	800 050 838	5.520
110	100	4	10	4150	11	161 561 150	8.310	800 050 839	8.930

d	D	L	L2	e	closest
(mm)	(mm)	(mm)	(mm)	(mm)	inch
					(inch)
20	50	193	56	2.3	½
25	58	216	65	2.3	¾
32	68	223	71	3.0	1
40	84	249	85	3.7	1 ¼
50	97	271	89	4.6	1 ½
63	124	321	101	5.8	2
75	166	386	136		2 ½
90	200	421	141	8.2	3
110	238	484	164	10.0	4



Wafer check valve type 369 PVC-U Without spring

Model:

- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

Installation instruction:

- Installation between ISO/DIN (all dimensions) and ANSI/BS flange adaptors (all except DN32 and DN125)
- Installation with ANSI/BS flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI/BS flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI/BS flange adaptor)
- Centering by body diameter (ISO/DIN by D3, ANSI/BS by D)
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- No direct installation on pump flange or following bend allowed
- The using of PVC-U pipe PN16 is only possible up to d63
- Wafer check valves without reset spring are not recommended for pulsating flows (production of noise)

d (mm)	DN (mm)	Size (inch)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
40	32	1 ¼	10	161 369 002	1	0.110	161 369 022	1	0.108
50	40	1 ½	10	161 369 003	1	0.174	161 369 023	1	0.202
63	50	2	10	161 369 004	1	0.273	161 369 024	1	0.277
75	65	2 ½	10	161 369 005	1	0.352	161 369 025	1	0.386
90	80	3	10	161 369 006	1	0.560	161 369 026	1	0.591
110	100	4	10	161 369 007	1	0.651	161 369 027	1	0.667
140	125	5	10	161 369 009	1	0.791	161 369 029	1	0.856
160	150	6	6	161 369 010	1	1.153	161 369 030	1	1.207
225	200	8	6	161 369 011	1	2.215	161 369 031	1	2.306
280	250	10	6	161 369 012	1	3.850	161 369 032	1	3.915
315	300	12	6	161 369 013	1	7.059	161 369 033	1	5.300

d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	L (mm)	L1 (mm)	H (mm)	Opening pressure vertical (mbar)	Opening pres- sure horizontal (mbar)	Minimum water col- umn for seal- ing (m)
40	85	59	18		15	22	25	10	1	2
50	105	77	22	95	16	27	27	10	1	2
63	124	92	32	109	18	40	29	10	1	2
75	137	111	40	129	20	55	31	10	1	2
90	175	131	54	144	20	67	32	10	1	2
110	175	153	70	164	23	77	31	10	1	2
140	195	185	92		23	94	35	10	1	2
160	222	198	105	220	26	100	41	10	1	2
225	279	259	154	275	34	152	38	18	1	2
280	340	311	192	330	40	180	41	18	1	2
315	410	347	227	380	45	215	41	18	1	2



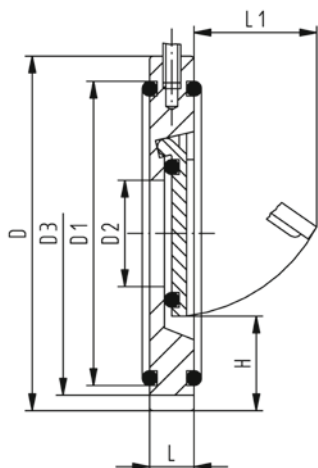
Wafer check valve type 369 PVC-U With V4A spring (stainless steel 316)

Model:

- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

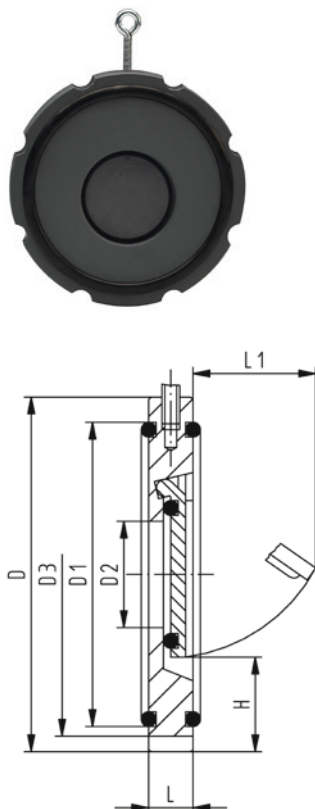
Installation instruction:

- Installation between ISO/DIN (all dimensions) and ANSI/BS flange adaptors (all except DN32 and DN125)
- Installation with ANSI/BS flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI/BS flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI/BS flange adaptor)
- Centering by body diameter (ISO/DIN by D3, ANSI/BS by D)
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- No direct installation on pump flange or following bend allowed
- The using of PVC-U pipe PN16 is only possible up to d63



d	DN	Size	PN	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(mm)	(inch)	(bar)	Code		(kg)	Code		(kg)
40	32	1 ¼	10	161 369 042	1	0.130	161 369 062	1	0.107
50	40	1 ½	10	161 369 043	1	0.160	161 369 063	1	0.206
63	50	2	10	161 369 044	1	0.273	161 369 064	1	0.250
75	65	2 ½	10	161 369 045	1	0.357	161 369 065	1	0.320
90	80	3	10	161 369 046	1	0.561	161 369 066	1	0.390
110	100	4	10	161 369 047	1	0.651	161 369 067	1	0.684
140	125	5	10	161 369 049	1	0.791	161 369 069	1	0.750
160	150	6	6	161 369 050	1	1.171	161 369 070	1	1.100
225	200	8	6	161 369 051	1	2.252	161 369 071	1	2.100
280	250	10	6	161 369 052	1	3.790	161 369 072	1	3.500
315	300	12	6	161 369 053	1	6.274	161 369 073	1	5.300

d	D	D1	D2	D3	L	L1	H	Opening pressure vertical	Opening pressure horizontal	Minimum water column for sealing
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mbar)	(mbar)	(m)
40	85	59	18		15	22	25	30	20	2
50	105	77	22	95	16	27	27	30	20	2
63	124	92	32	109	18	40	29	30	20	2
75	137	111	40	129	20	55	31	30	20	2
90	175	131	54	144	20	67	32	30	20	2
110	175	153	70	164	23	77	31	30	20	2
140	195	185	92		23	94	35	30	20	2
160	222	198	105	220	26	100	41	30	20	2
225	279	259	154	275	34	152	38	38	20	2
280	340	311	192	330	40	180	41	38	20	2
315	410	347	227	380	45	215	41	38	20	2



Wafer check valve type 369 PVC-U With Hastelloy C spring

Model:

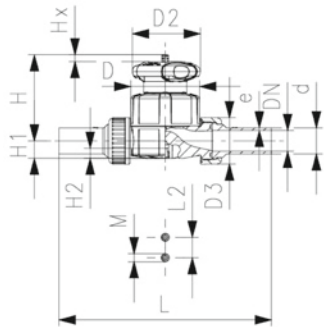
- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

Installation instruction:

- Installation between ISO/DIN (all dimensions) and ANSI/BS flange adaptors (all except DN32 and DN125)
- Installation with ANSI/BS flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI/BS flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI/BS flange adaptor)
- Centering by body diameter (ISO/DIN by D3, ANSI/BS by D)
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- No direct installation on pump flange or following bend allowed
- The using of PVC-U pipe PN16 is only possible up to d63

d	DN	Size	PN	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(mm)	(inch)	(bar)	Code		(kg)	Code		(kg)
40	32	1 ¼	10	161 369 082	1	0.130	161 369 102	1	0.130
50	40	1 ½	10	161 369 083	1	0.174	161 369 103	1	0.160
63	50	2	10	161 369 084	1	0.250	161 369 104	1	0.277
75	65	2 ½	10	161 369 085	1	0.320	161 369 105	1	0.320
90	80	3	10	161 369 086	1	0.390	161 369 106	1	0.390
110	100	4	10	161 369 087	1	0.654	161 369 107	1	0.550
140	125	5	10	161 369 089	1	0.750	161 369 109	1	0.750
160	150	6	6	161 369 090	1	1.164	161 369 110	1	1.100
225	200	8	6	161 369 091	1	2.100	161 369 111	1	2.100
280	250	10	6	161 369 092	1	3.500	161 369 112	1	3.500
315	300	12	6	161 369 093	1	5.300	161 369 113	1	5.300

d	D	D1	D2	D3	L	L1	H	Opening pressure vertical	Opening pressure horizontal	Minimum water column for sealing
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mbar)	(mbar)	(m)
40	85	59	18		15	22	25	30	20	2
50	105	77	22	95	16	27	27	30	20	2
63	124	92	32	109	18	40	29	30	20	2
75	137	111	40	129	20	55	31	30	20	2
90	175	131	54	144	20	67	32	30	20	2
110	175	153	70	164	23	77	31	30	20	2
140	195	185	92		23	94	35	30	20	2
160	222	198	105	220	26	100	41	30	20	2
225	279	259	154	275	34	152	38	38	20	2
280	340	311	192	330	40	180	41	38	20	2
315	410	347	227	380	45	215	41	38	20	2



ecoFIT Diaphragm valve type 514
With butt and electro fusion ends PE100 SDR11 metric

Model:

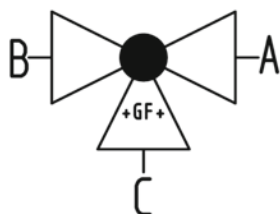
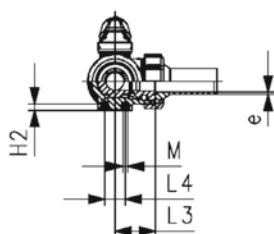
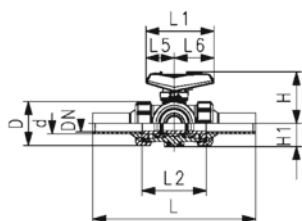
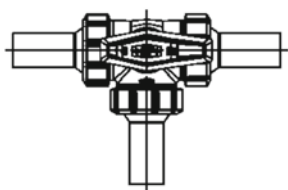
- Material: PVC-U/PE
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

Option:

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

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

d (mm)	D (mm)	D2 (mm)	D3 (mm)	L (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	M	Lift = Hx (mm)	e (mm)	closest inch (inch)
20	65	65	43	196	25	73	14	12	M6	7	1.9	½
25	80	65	51	221	25	81	18	12	M6	10	2.3	¾
32	88	87	58	234	25	107	22	12	M6	13	2.9	1
40	101	87	72	260	45	115	26	15	M8	15	3.7	1 ¼
50	117	135	83	284	45	148	32	15	M8	19	4.6	1 ½
63	144	135	100	321	45	166	39	15	M8	25	5.8	2



ecoFIT 3-Way ball valve type 543 Pro PVC-U

Horizontal/L-port

With butt fusion spigots long PE100 SDR11 metric

Model:

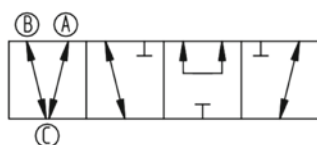
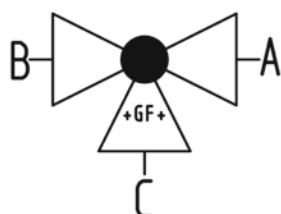
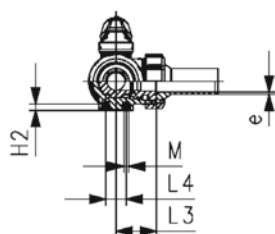
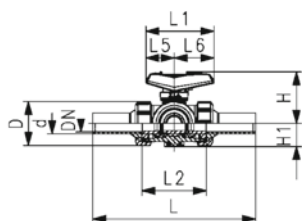
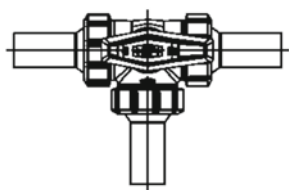
- Material: PVC-U/PE
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated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

Option:

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

d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	15	½	10	75	161 543 462	0.254	161 543 472	0.254
25	20	¾	10	150	161 543 463	0.370	161 543 473	0.370
32	25	1	10	280	161 543 464	0.563	161 543 474	0.563
40	32	1 ¼	10	480	161 543 465	0.953	161 543 475	0.953
50	40	1 ½	10	620	161 543 466	1.444	161 543 476	1.444
63	50	2	10	1230	161 543 467	3.141	161 543 477	3.141

d	D	L	L1	L2	L3	L4	L5	L6	H	H1	H2	M	e	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
														(inch)
20	50	210	82	73	36	25	35	47	61	28	8	6	1.9	½
25	58	237	106	86	43	25	44	62	74	32	8	6	2.3	¾
32	68	251	106	99	50	25	44	62	80	36	8	6	2.9	1
40	84	283	131	120	60	45	57	74	95	45	9	8	3.7	1 ¼
50	97	319	131	137	69	45	57	74	102	51	9	8	4.6	1 ½
63	124	399	152	179	89	45	66	86	117	65	9	8	5.8	2



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

Model:

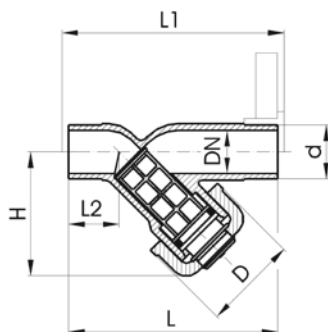
- Material: PVC-U/PE
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated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

Option:

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

d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	15	½	10	200	161 543 482	0.253	161 543 492	0.253
25	20	¾	10	470	161 543 483	0.368	161 543 493	0.368
32	25		10	793	161 543 484	0.556	161 543 494	0.556
40	32	1 ¼	10	1290	161 543 485	0.942	161 543 495	0.942
50	40	1 ½	10	1910	161 543 486	1.423	161 543 496	1.423
63	50	2	10	3100	161 543 487	2.770	161 543 497	3.096

d	D	L	L1	L2	L3	L4	L5	L6	H	H1	H2	M	e	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
														(inch)
20	50	210	82	73	36	25	35	47	61	28	8	6	1.9	½
25	58	237	106	86	43	25	44	62	74	32	8	6	2.3	¾
32	68	251	106	99	50	25	44	62	80	36	8	6	2.9	1
40	84	283	131	120	60	45	57	74	95	45	9	8	3.7	1 ¼
50	97	319	131	137	69	45	57	74	102	51	9	8	4.6	1 ½
63	124	399	152	179	89	45	66	86	117	65	9	8	5.8	2



Line strainer type 305 PVC-U With solvent cement spigots metric

Model:

- Protects valves, pumps, etc. from becoming soiled
- Easy dismantling for cleaning the screens
- **Screen perforation need be ordered separately**
- Overall length according to EN 558

d (mm)	DN (mm)	Size (inch)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	½	10	161 305 300	1	0.101	161 305 349	1	0.134
25	20	¾	10	161 305 350	1	0.141	161 305 399	1	0.215
32	25	1	10	161 305 400	1	0.226	161 305 449	1	0.257
40	32	1 ¼	10	161 305 450	1	0.348	161 305 499	1	0.386
50	40	1 ½	10	161 305 500	1	0.600	161 305 549	1	0.632
63	50	2	10	161 305 550	1	0.985	161 305 599	1	1.045
75	65	2 ½	10	161 305 600	1	1.868	161 305 649	1	1.871
90	80	3	10	161 305 650	1	2.590	161 305 699	1	2.585

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	closest inch (inch)
20	43	65	124	130	28	½
25	47	76	144	150	37	¾
32	56	90	154	160	37	1
40	64	104	174	180	44	1 ¼
50	82	124	194	200	48	1 ½
63	95	148	224	230	60	2
75	106	188	284	290	74	2 ½
90	120	205	300	310	85	3

COOL-FIT 2.0 Accessories

Tools



COOL-FIT 2.0/4.0 Foam removal and peeling tool

Model:

- Tool for foam removal and peeling of COOL-FIT 2.0 and 4.0 pipes

d (mm)	Code	Weight (kg)
32-90	799 738 001	10.500
110-225	799 738 003	16.500
250-450	799 738 004	71.000



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	799 738 013	50.000

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 / 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		790 156 003	11.900
Barcode scanner, transport case, mini Welding Book, Swiss plug		790 156 006	11.900
Barcode scanner, transport case, mini Welding Book, 8m fusion cable		790 156 010	12.900
Barcode scanner, transport case, mini Welding Book, German version		790 156 009	19.500



Clamping tool Double, multi size with universal link

- Recommended for the installation of fittings ELGEF Plus and ecoFIT d40 - 200 and d160 - 630mm
- Recommended for the installation of fittings COOL-FIT d32/D75 - d140/D200 and d160/D250 - d450/D630
- The clamping allows installation without tension and avoids movement during fusion and cooling time
- The centrally located adjustable universal link allows installation of electrofusion couplers, elbows and reducers
- Works above, below and alongside the joint
- Adaptor for use with Tee-pieces available (see accessories)

d (mm)	d1 (mm)	Code	Weight (kg)
40	200	799 301 490	4.200
160	630	799 301 496	14.100

d (mm)	Description	Length (mm)	Width (mm)	Height (mm)
40	Scope of delivery: 2 x V-block, 2 x Straight bar, 1 x Universal link, Transport bag (600x380x250)	900	290	230
160	Scope of delivery: 2 x V-block, 2 x Straight bar, 1 x Universal link, Transport bag (780x780x580)	1300	670	550



Clamping tool Quadruple, multi size with universal link

- Recommended for the installation of fittings ELGEF Plus and ecoFIT d40 - 200 and d160 - 630mm
- Recommended for the installation of fittings COOL-FIT d32/D75 - d140/D200 and d160/D250 - d450/D630
- The clamping allows installation without tension and avoids movement during fusion and cooling time
- The centrally located adjustable universal link allows installation of electrofusion couplers, elbows and reducers
- Universal use; works above, below and alongside the joint
- Adaptor for use with Tee-pieces available (see accessories)

d (mm)	d1 (mm)	Code	Weight (kg)
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)

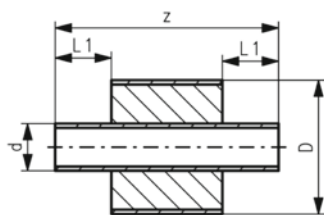
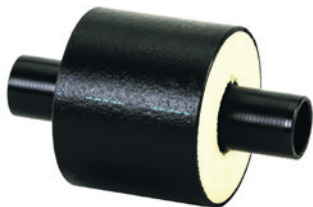
d (mm)	d1 (mm)	Code	Weight (kg)	Description	Length (mm)	Width (mm)	Height (mm)
40	200	799 301 492	1.000	V-block complete	290	230	65
160	630	799 301 498	3.200	V-block complete	660	430	90



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

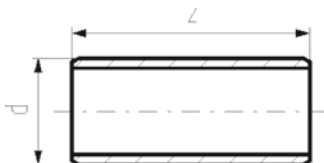


COOL-FIT 2.0 Barrel nipple with insulation, d32-d140

Model:

- Pre-insulated PE100 SDR11 metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- For short connections between COOL-FIT 2.0 Fittings Typ A

d (mm)	d/D (mm)	SDR	PN (bar)	Code	Weight (kg)	L1 (mm)	z (mm)	closest inch (inch)
32	32/75	11	16	738 914 408	0.072	36	121	1
40	40/90	11	16	738 914 409	0.104	40	125	1 ¼
50	50/90	11	16	738 914 410	0.136	44	133	1 ½
63	63/110	11	16	738 914 411	0.216	48	141	2
75	75/125	11	16	738 914 412	0.313	55	155	2 ½
90	90/140	11	16	738 914 413	0.459	62	169	3
110	110/160	11	16	738 914 414	0.712	72	189	4
140	140/200	11	16	738 914 416	1.226	90	213	6



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)	SDR	PN	Code	Weight (kg)	z (mm)	closest inch (inch)
32	11	16	738 910 408	0.020	72	1
40	11	16	738 910 409	0.034	80	1 ¼
50	11	16	738 910 410	0.059	88	1 ½
63	11	16	738 910 411	0.101	96	2
75	11	16	738 910 412	0.162	110	2 ½
90	11	16	738 910 413	0.264	124	3
110	11	16	738 910 414	0.454	144	4
140	11	16	738 910 416	0.855	168	5
160	17	10	738 910 417	0.798	180	6
225	17	10	738 910 420	1.885	220	8

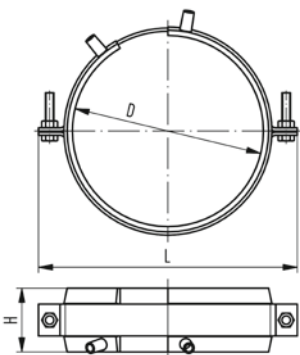


COOL-FIT 2.0/4.0 adhesive ring

Model:

- Double sided, for sealing connections of fittings with barrel nipple

D (mm)	d (mm)	d COOL-FIT 4.0 (mm)	d COOL-FIT 2.0 (mm)	Code	Weight (kg)
75	32		32	738 010 012	0.002
90	32 - 50	32	40 - 50	738 010 013	0.002
110	40 - 63	40 - 50	63	738 010 014	0.003
125	63 - 75	63	75	738 010 015	0.003
140	75 - 90	75	90	738 010 016	0.003
160	90 - 110	90	110	738 010 017	0.005
180	110	110		738 010 018	0.005
200	140		140	738 010 019	0.006
225	140	140		738 010 020	0.009
250	160	160		738 010 021	0.009
315	225	225		738 010 023	0.027



COOL-FIT 2.0/4.0 Fixed point

Model:

- The product consists of two components namely electrofusion tapes and pipe brackets.
- Electrofusion welded tape as permanent connection to transmit the forces that occur in the pipe to the fixed point.
- The delivered pipe brackets are needed to deliver welding pressure during 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	738 912 012	0.750
90	32 - 50	32	40 - 50	738 912 013	0.895
110	40 - 63	40 - 50	63	738 912 014	0.904
125	63 - 75	63	75	738 912 015	1.103
140	75 - 90	75	90	738 912 016	1.188
160	90 - 110	90	110	738 912 017	1.177
180	110	110		738 912 018	1.530
200	140		140	738 912 019	1.600
225	140	140		738 912 020	1.813
250	160	160		738 912 021	1.957
315	225	225		738 912 023	2.388
355	250	250		738 912 024	2.388

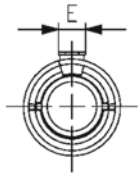
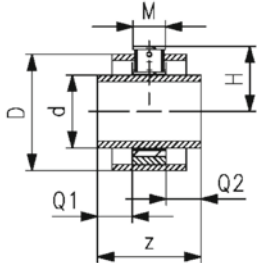
D (mm)	d (mm)	L (mm)	H (mm)	max Force COOL-FIT 4.0 (kN)	max Force COOL-FIT 2.0 (kN)
75	32	150	60		2.0
90	32 - 50	170	60	2.0	3.0 / 5.0
110	40 - 63	180	60	3.0 / 5.0	8.0
125	63 - 75	215	60	8.0	10.0
140	75 - 90	220	60	10.0	10.0
160	90 - 110	255	60	10.0	10.0
180	110	255	60	10.0	
200	140	310	60		10.0
225	140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



COOL-FIT 2.0 Fixpoint kit for high forces

Model:

- The product consists of fixpoint, pipe section and insulation kit
- Fixed point for installation between two electrofusion fittings, transmits the forces emanating from the pipe to the fixed point
- Pipe section PE100 SDR11, metric
- Fixpoint with welding plate made from S235JR (1.0038). With corrosion protection coating
- Insulation made from EPDM soft foam. For outdoor application use additional protection
- Please take note of the maximum allowed forces for this version in the table below.
- A force calculation of the fixpoint clamp and the attachment point is required
- For the bonding, adhesive 738010060 is recommended



d	D	DN	SDR	PN	Code	Weight
(mm)	(mm)	(mm)		(bar)		(kg)
140	200	125	11	16	738 914 816	7.950

z	Q1	Q2	Dos	H	M	E	Wrench size	max. Force (kN)
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
268	84	84	244	137	100	100	24	35



COOL-FIT Y cables kit

- The COOL-FIT Y cables are used to speed up the installation of the fixed points electrofusion tapes. The Y cables allow the welding in parallel of 2 E-Tapes, halving the total duration of the fusion process.
- Compatible with all MSA Units

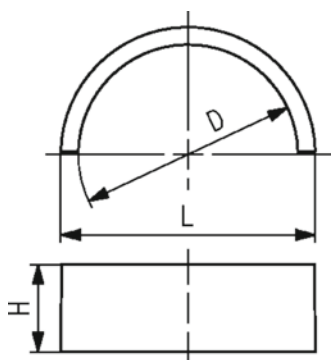
Type	Code	Weight
		(kg)
4 leads cable with 2mm plugs in output	790 156 032	0.385

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	799 198 094	0.143



COOL-FIT 2.0F 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	Weight (kg)	L (mm)	H (mm)	max. Force (kN)	closest inch (inch)
75	32	738 912 312	0.750	87	30	2.0	1
90	40 - 50	738 912 313	0.895	105	35	3.0 / 5.0	1 ¼ / 1 ½
110	63	738 912 314	0.904	128	35	8.0	2
125	75	738 912 315	1.103	142	35	10.0	2 1/2
140	90	738 912 316	1.188	162	35	10.0	3
160	110	738 912 317	1.177	183	35	10.0	4
200	140	738 912 319	1.600	221	35	10.0	5



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)

Language	description	Code	Weight (kg)
DE, FR	50 ml	799 302 005	0.566
FR, NL	50 ml	799 302 041	0.566
DK, SE	50 ml	799 302 042	0.566
GB, IT	50 ml	799 302 043	0.566
FI, NO	50 ml	799 302 044	0.566
DE, ES, FR, GB, IT, NL, PT	400 ml	799 302 007	3.700
DK, FI, NO, SE	400 ml	799 302 047	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	799 302 032	1	0.160
400ml	799 302 033	1	0.190



Tangit Rapid dispenser

- For Tangit Rapid cartridges

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



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)
738 010 060	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)
738 010 065	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	SP	Weight (kg)
1 liter	799 298 023	8	0.872



Marker

Type	Code	Weight (kg)
silver	799 350 364	0.010

Deburring tool

- Replacable blade



Code	SP	Weight (kg)
790 205 082	1	0.058

Measuring tape (circumference and diameter)

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

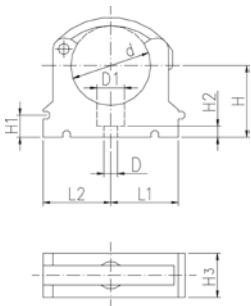


Code	SP	Weight (kg)
790 205 087	1	0.045

KLIP-IT pipe clip type 061 PP metric

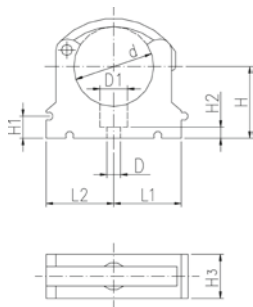
Model:

- 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)	D (mm)	d (inch)	D1 (mm)	Code	SP	Weight (kg)
*	10	5		8	167 061 003	10	0.003
*	12	5		8	167 061 004	10	0.003
*	16	6		11	167 061 035	10	0.007
*	20	6		11	167 061 036	10	0.007
*	25	6		11	167 061 037	10	0.009
*	32	6		11	167 061 038	10	0.012
	40	7		14	167 061 039	10	0.027
	50	7		14	167 061 040	10	0.031
	63	9		17	167 061 041	10	0.052
	75	9	2 ½	17	167 061 012	10	0.057
	90	9	3	17	167 061 013	10	0.092
	110	9	4	17	167 061 014	10	0.117
	125	9		17	167 061 015	10	0.180
	140	9	5	17	167 061 016	10	0.224
	160	9		17	167 061 017	10	0.242

	d (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L1 (mm)	L2 (mm)	SC	closest inch (inch)
*	10	20	10	6	12	11	14	M4	⅜
*	12	21	10	6	12	11	14	M5	¼
*	16	27	10	6	16	14	17	M5	⅜
*	20	27	10	6	16	17	19	M5	½
*	25	30	10	6	16	19	22	M5	¾
*	32	36	10	6	16	24	27	M5	1
	40	44	10	7	22	34	34	M6	1 ¼
	50	51	10	7	22	37	37	M6	1 ½
	63	64	10	10	25	45	45	M8	2



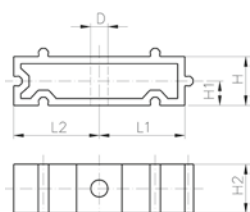
d (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L1 (mm)	L2 (mm)	SC	closest inch (inch)
75	58	10	10	25	52	52	M8	2 ½
90	65	10	10	28	65	65	M8	3
110	75	10	10	28	79	79	M8	4
125	90	10	10	32	88	88	M8	
140	110	10	10	32	98	98	M8	5
160	108	10	10	32	109	109	M8	6



KLIP-IT spacer type 061 PP

Model:

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



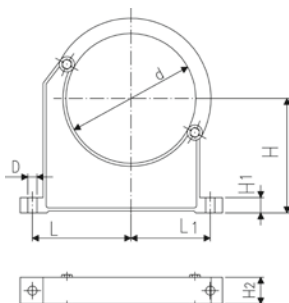
d (mm)	Inch (inch)	Code	SP	Weight (kg)	D (mm)	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	SC
10 - 12	½ - ¼	167 061 153	10	0.003	5	11	14	20	10	12	M4
16	¾	167 061 155	10	0.005	6	14	17	20	10	16	M5
20	½	167 061 156	10	0.005	6	17	19	20	10	16	M5
25	¾	167 061 157	10	0.007	6	19	22	20	10	16	M5
32	1	167 061 158	10	0.006	6	24	27	20	10	16	M5
40	1 ¼	167 061 159	10	0.015	7	34	34	20	10	22	M6
50	1 ½	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 ½	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
110	4	167 061 164	10	0.048	9	79	79	20	10	28	M8
125	4 ½	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)	D (mm)	Code	SP	Weight (kg)	L (mm)	L1 (mm)	H (mm)	H1 (mm)	H2 (mm)	SC	closest inch (inch)
90	9	167 060 038	10	0.144	89	71	105	15	33	M 8	3
110	9	167 060 039	10	0.158	94	80	115	15	33	M 8	4
125	11	167 060 040	10	0.249	116	91	130	20	35	M10	
140	11	167 060 041	10	0.260	121	99	130	20	35	M10	5
160	11	167 060 042	10	0.296	131	107	148	20	35	M10	6
180	11	167 060 043	10	0.327	143	115	163	20	35	M10	7
200	13	167 060 019	5	0.539	151	120	175	25	39	M12	8
225	13	167 060 020	5	0.612	164	132	175	25	39	M12	8
250	13	167 060 021	5	0.657	183	143	200	25	39	M12	9
280	13	167 060 022	5	0.722	197	156	200	25	39	M12	10
315	13	167 060 023	5	0.805	219	171	225	25	39	M12	12
355	17	167 060 024	5	1.251	275	209	258	30	50	M16	14
400	17	167 060 025	4	1.031	300	228	288	30	50	M16	16

COOL-FIT 2.0 Spare parts



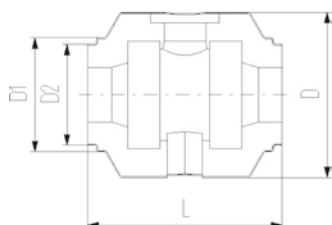
COOL-FIT 2.0/4.0 Insulation for ball valve type 546 / 542

Model:

- Set consisting of half shells and clamps

Note:

Suitable for COOL-FIT ball valve only



d (mm)	D (mm)	DN (mm)	Code	Weight (kg)	D1 (mm)	D2 (mm)	L (mm)
32	135	25	738 990 308	0.160	97	82	152
40	157	32	738 990 309	0.228	117	97	170
50	169	40	738 990 310	0.282	117	97	184
63	204	50	738 990 311	0.498	132	117	227
75	235	65	738 990 312	0.935	147	132	276
90	255	80	738 990 313	1.033	168	147	297



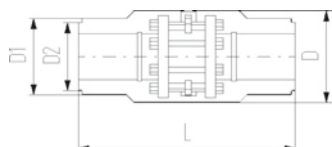
COOL-FIT 2.0/4.0 Insulation for Butterfly Valve Type 567

Model:

- Set consisting of half shells and clamps

Note:

Suitable for COOL-FIT butterfly valve only



d (mm)	D (mm)	DN (mm)	Code	Weight (kg)	D1 (mm)	D2 (mm)	L (mm)
110	310	100	738 990 324	2.054	188	168	556
140	287	125	738 990 326	2.947	233	208	662
160	358	150	738 990 327	3.675	259		720
225	409	200	738 990 330	4.811	325		776



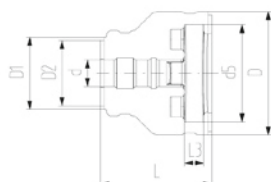
COOL-FIT 2.0/4.0 Insulation for flange adaptor

Model:

- Set consisting of half shells and clamps

Note:

Suitable for COOL-FIT flange adaptor only



d (mm)	D (mm)	DN (mm)	Code	Weight (kg)	D1 (mm)	D2 (mm)	L (mm)	L3 (mm)	d5 (mm)
32	135	25	738 990 458	0.226	90	75	162	26	121
40	170	32	738 990 459	0.331	110	90	165	28	146
50	180	40	738 990 460	0.386	110	90	178	30	156
63	200	50	738 990 461	0.533	125	110	230	32	171
75	220	65	738 990 462	0.674	140	125	232	34	191
90	240	80	738 990 463	0.754	160	140	245	35	206
110	270	100	738 990 464	0.889	180	160	254	36	235
140	300	125	738 990 466	1.138	225	200	299	38	256
160	358	150	738 990 467	2.820	259		332	34	295
225	423	200	738 990 470	3.710	325		383	37	354



COOL-FIT 2.0 Insulation for welding indicator

Model:

- Sales unit: Bag with 20 pieces

Code	Weight (kg)
738 010 051	0.055



Peeling blade d32-d90

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 001)

d (mm)	Code	Weight (kg)
32	799 738 101	0.015
40	799 738 102	0.020
50	799 738 103	0.019
63	799 738 104	0.020
75	799 738 105	0.020
90	799 738 106	0.030



Peeling blade d110-d225

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 003)

d (mm)	Code	Weight (kg)
110	799 738 107	0.100
140	799 738 108	0.100
160	799 738 109	0.100
225	799 738 110	0.100



Replacement blade foam separator

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 004) and upgrade kit d140-d225 (799 738 013)

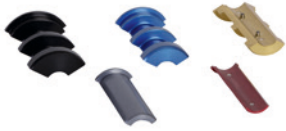
Code	Weight (kg)	Suitable for
799 738 115	0.100	799 738 004
799 738 117	0.080	799 738 013



O-Ring for clamping shoe

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 001 and 799 738 003)

d (mm)	Code	Weight (kg)
32	799 738 050	0.003
110	799 738 051	0.010



Clamping shoe d32-d90

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 001)

d (mm)	Code	Weight (kg)	Colour
32	799 738 020	0.240	silver
40	799 738 021	0.090	red
50	799 738 022	0.210	anthracite
63	799 738 023	0.120	gold
75	799 738 024	0.270	blue
90	799 738 025	0.480	black



Clamping shoe 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	799 738 026	0.680	silver	
140	799 738 027	0.480	red	A
140	799 738 037	0.480	red	B
160	799 738 028	0.580	anthracite	A
160	799 738 038	0.580	anthracite	B
225	799 738 029	0.600	gold	A
225	799 738 039	0.600	gold	B



Circular blade

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 001 and 799 738 003)

Code	Weight (kg)
799 738 040	0.008



Circular blade-Set

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799738001 and 799738003)
- Consists of: Circular blade, holder and screw

d (mm)	Code	Weight (kg)
32 - 90	799 738 048	0.025
110 - 225	799 738 049	0.025



Saw

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 003)

d (mm)	Code	Weight (kg)
140 - 225	799 738 060	1.000



Saw blade

- Suitable for COOL-FIT 2.0/4.0 foam removal and peeling tool (799 738 003)

d (mm)	Code	Weight (kg)
140 - 225	799 738 061	0.029



Spare blades for deburring tool

- 10 pieces

Code	SP	Weight (kg)
790 205 083	1	0.031

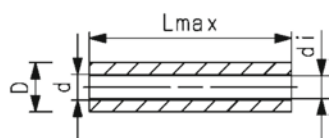
COOL-FIT 2.0 Push System Pipes and Fittings



COOL-FIT 2.0 Push System Pipe bar

Model:

- Pre-insulated multilayer (PE-RT/AL/PE-RT) pipe, metric
- Closed cell insulation based EPDM with polyester wire mesh for mechanical protection
- Colour: black

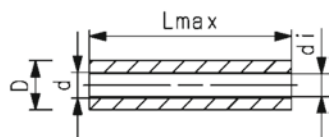


d	D	DN	PN	Code	SP	Weight	di	L	closest inch
(mm)	(mm)	(mm)	(bar)			(kg)	(mm)	(mm)	(inch)
16	44	12	16	738 174 005	8	0.299	12	5000	3/8
20	48	15	16	738 174 006	7	0.354	16	5000	1/2
25	54	20	16	738 174 007	7	0.521	20	5000	3/4
32	61	25	16	738 174 008	6	0.621	26	5000	1

COOL-FIT 2.0 Push System, Pipe coiled

Model:

- Pre-insulated multilayer (PE-RT/AL/PE-RT) pipe, metric
- Closed cell insulation based EPDM with polyester wire mesh for mechanical protection
- Colour: black



d	D	DN	PN	Code	SP	Weight	di	L	closest inch
(mm)	(mm)	(mm)	(bar)			(kg)	(mm)	(mm)	(inch)
16	44	12	16	738 174 055	1	0.299	12	25000	3/8
20	48	15	16	738 174 056	1	0.354	16	25000	1/2
25	54	20	16	738 174 057	1	0.521	20	25000	3/4

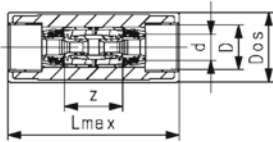


COOL-FIT 2.0 Push System Coupler

Model:

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

d	D	DN	PN	Code	SP	Weight	Lmax	z	Dos
(mm)	(mm)	(mm)	(bar)			(kg)	(mm)	(mm)	(mm)
16	44	12	16	738 914 005	1	0.266	190	53	69
20	48	15	16	738 914 006	1	0.254	190	53	69
25	54	20	16	738 914 007	1	0.456	212	72	86
32	61	25	16	738 914 008	1	0.446	212	72	86

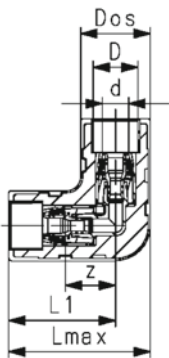


COOL-FIT 2.0 Push System, Elbow 90°

Model:

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

d	D	DN	PN	Code	SP	Weight	Lmax	L1	z	Dos
(mm)	(mm)	(mm)	(bar)			(kg)	(mm)	(mm)	(mm)	(mm)
16	44	12	16	738 104 005	1	0.294	145	110	41	69
20	48	15	16	738 104 006	1	0.282	145	110	41	69
25	54	20	16	738 104 007	1	0.550	175	132	62	86
32	61	25	16	738 104 008	1	0.540	175	132	62	86





COOL-FIT 2.0 Push System T90° equal

Model:

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

Note:

Additional COOL-FIT 2.0 Push System Adaptor kit needed for d16 and d20 738904055 or 73890456 for d25 and d32 738904057 or 73890458

d	d2	D	DN	PN	Code	SP	Weight	Lmax	z	L2	z2	Dos
(mm)	(mm)	(mm)	(mm)	(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
16	16/20	44	12	16	738 204 005	1	0.344	207	72	110	37	69
20	16/20	48	15	16	738 204 006	1	0.332	207	72	110	37	69
25	25/32	54	20	16	738 204 007	1	0.648	246	106	132	54	86
32	25/32	61	25	16	738 204 008	1	0.638	246	106	132	54	86

COOL-FIT 2.0 Push System T90° reduced

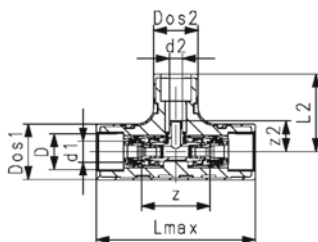
Model:

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

Note:

Additional COOL-FIT 2.0 Push System, Adaptor kit 738904055 and 73890456 needed

d1	d2	D	DN	PN	Code	SP	Weight	Lmax	z	L2	z2	Dos1	Dos2
(mm)	(mm)	(mm)	(mm)	(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
25	16/20	54	20	16	738 204 017	1	0.597	246	106	121	48	86	69
32	16/20	61	25	16	738 204 018	1	0.587	246	106	121	48	86	69





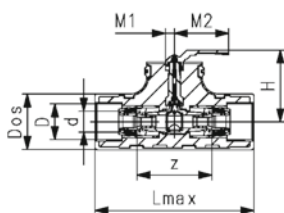
COOL-FIT 2.0 Push System Reduction

Model:

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

d1	d2	D1	D2	DN	PN	Code	SP	Weight	Lmax	z1	z2	Dos1	Dos2
(mm)	(mm)	(mm)	(mm)	(mm)	(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
25	16	54	44	20	16	738 904 015	1	0.395	203	34	31	86	69
25	20	54	48	20	16	738 904 016	1	0.389	203	34	31	86	69
32	16	61	44	25	16	738 904 017	1	0.390	203	34	31	86	69
32	20	61	48	25	16	738 904 018	1	0.384	203	34	31	86	69

COOL-FIT 2.0 Push System Valves

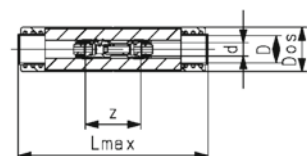


COOL-FIT 2.0 Push System Ball valve

Model:

- Ball valve with spindle extension
- Insulation shell of EPP with TPE jacket
- Colour: black
- Package contents: 1x ball valve, 2x adaptors, 2x compression rings, 1x insulation shell

d	D	DN	PN	Code	SP	Weight	Lmax	z	H	M1	M2	Dos
(mm)	(mm)	(mm)	(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
16	44	12	16	138 984 005	1	0.739	232	97	108	14	84	69
20	48	15	16	138 984 006	1	0.732	232	97	108	14	84	69
25	54	20	16	138 984 007	1	1.155	246	116	111	14	84	86
32	61	25	16	138 984 008	1	1.145	246	116	111	14	84	86

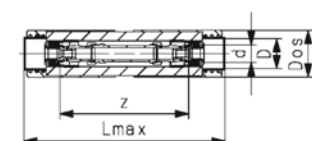


COOL-FIT 2.0 Push System Flow control valve Both sides connection with Eurocone

Model:

- Flow control valve made of brass, impact resistant plastic and EPDM seals
- Both sides connection to COOL-FIT 2.0 Push System
- Measuring accuracy: $\pm 10\%$ of the displayed value
- Insulation made of NBR and shells of TPE
- Package contents: 1x valve, 2x adaptors, 2x compression rings, 1x insulation shell

d	D	DN	PN	Code	SP	Weight	Lmax	z	Dos
(mm)	(mm)	(mm)	(bar)			(kg)	(mm)	(mm)	(mm)
16	44	12	10	138 984 025	1	0.625	252	82	69
20	48	15	10	138 984 026	1	0.669	252	86	69



COOL-FIT 2.0 Push System Flow control valve Both sides connection with iFIT

Model:

- Flow control valve made of brass, impact resistant plastic and EPDM seals
- Both sides connection to COOL-FIT 2.0 Push System
- Measuring accuracy: $\pm 10\%$ of the displayed value
- Insulation made of NBR and shells of TPE
- Package contents: 1x valve, 2x adaptors, 2x compression rings, 1x insulation shell

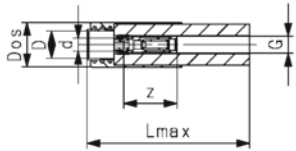
d	D	DN	PN	Code	SP	Weight	Lmax	z	Dos
(mm)	(mm)	(mm)	(bar)			(kg)	(mm)	(mm)	(mm)
25	54	20	10	138 984 027	1	1.338	332	238	86
32	61	25	10	138 984 028	1	1.328	332	238	86



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

Model:

- Flow control valve made of brass, impact resistant plastic and EPDM seals
- One side connection to COOL-FIT 2.0 Push System
- One side connection with thread
- Measuring accuracy: $\pm 10\%$ of the displayed value
- Insulation made of NBR and shells of TPE
- Package contents: 1x valve, 1x adaptor, 1x compression ring, 1x insulation shell



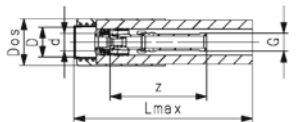
d (mm)	D (mm)	Thread Type	Size (inch)	DN (mm)	PN (bar)	Code	SP	Weight (kg)	Lmax (mm)	z (mm)	Dos (mm)
16	44	G	3/4	12	10	138 984 015	1	0.426	252	72	69
20	48	G	3/4	15	10	138 984 016	1	0.448	252	83	69



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

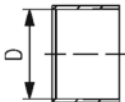
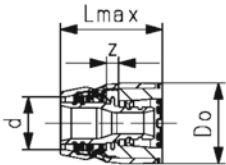
Model:

- Flow control valve made of brass, impact resistant plastic and EPDM seals
- One side connection to COOL-FIT 2.0 Push System
- One side connection with thread
- Measuring accuracy: $\pm 10\%$ of the displayed value
- Insulation made of NBR and shells of TPE
- Package contents: 1x valve, 1x adaptor, 1x compression ring, 1x insulation shell



d (mm)	D (mm)	Thread Type	Size (inch)	DN (mm)	PN (bar)	Code	SP	Weight (kg)	Lmax (mm)	z (mm)	Dos (mm)
25	54	G	1	20	10	138 984 017	1	0.887	332	179	86
32	61	G	1	25	10	138 984 018	1	0.882	332	179	86

COOL-FIT 2.0 Push System Accessories



COOL-FIT 2.0 Push System Adaptor kit

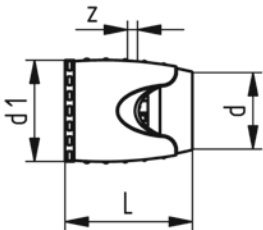
Model:

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

Note:

Additionally needed for COOL-FIT 2.0 Push System, T 90° equal and T90° reduced

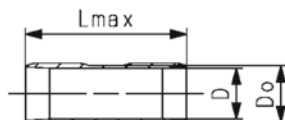
d (mm)	D (mm)	DN (mm)	PN (bar)	Code	SP	Weight (kg)	Lmax (mm)	z (mm)	Do (mm)
16	44	12	16	738 904 055	1	0.045	48	4.5	29
20	48	15	16	738 904 056	1	0.039	49	4.5	33
25	54	20	16	738 904 057	1	0.104	62	7.5	44
32	61	25	16	738 904 058	1	0.099	63	7.5	50



iFIT Adaptor PPSU

- Material: PPSU, PA

d (mm)	d1 (mm)	Code	SP	Weight (kg)	L (mm)	z (mm)
16	30	762 101 030	10	0.024	48	5
20	34	762 101 031	10	0.028	49	5
25	45	762 101 034	5	0.070	62	8
32	52	762 101 035	5	0.085	63	8

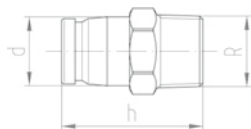


COOL-FIT 2.0 Push System Pipe shell

Model:

- Shell for easy installation in standard pipe clips

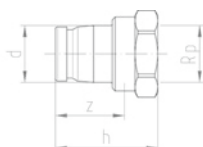
d (mm)	D (mm)	Do (mm)	Code	SP	Weight (kg)	Lmax (mm)
16	44	52	738 014 005	50	0.080	200
20	48	56	738 014 006	40	0.086	200
25	54	62	738 014 007	30	0.096	200
32	61	69	738 014 008	30	0.107	200



iFIT Transition module brass With male thread

- Material: brass, dezincification resistant
- Connection: male thread
- *as long as stock last

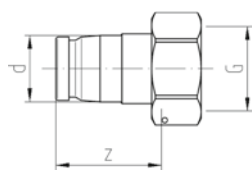
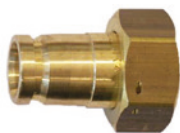
	d (mm)	Thread Type	Size (inch)	Code	SP	Weight (kg)	h (mm)
*	16 - 20	R	3/8	762 101 346	5	0.057	42
*	16 - 20	R	1/2	762 101 265	10	0.060	42
*	16 - 20	R	3/4	762 101 266	10	0.071	43
*	25 - 32	R	3/4	762 101 277	2	0.135	51
*	25 - 32	R	1	762 101 278	2	0.175	55



iFIT Transition module brass With female thread

- Material: brass, dezincification resistant
- Connection: female thread
- *as long as stock last

	d (mm)	Thread Type	Size (inch)	Code	SP	Weight (kg)	h (mm)	z (mm)
*	16 - 20	Rp	1/2	762 101 267	10	0.065	36	23
*	16 - 20	Rp	3/4	762 101 268	10	0.085	39	24
*	25 - 32	Rp	3/4	762 101 279	2	0.127	45	31
*	25 - 32	Rp	1	762 101 280	2	0.175	49	32



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

- Material: brass, dezincification resistant
Supplied with sealing

d	Thread Type	Size	Code	SP	Weight	z
(mm)		(inch)			(kg)	(mm)
16 - 20	G	½	762 101 276	2	0.070	41
16 - 20	G	¾	762 101 273	5	0.064	35
25 - 32	G	¾	762 101 281	2	0.155	48
25 - 32	G	1	762 101 282	1	0.179	55
25 - 32	G	1 ¼	762 101 283	1	0.251	48
25 - 32	G	1 ½	762 101 284	1	0.357	50

COOL-FIT 2.0 Push System Tools



iFIT Tool set for ML- and PB pipes plastic

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

d (mm)	Code	SP	Weight (kg)
16 / 20	762 101 122	1	1.163
25 / 32	762 101 133	1	1.371



iFIT Chamfering tool for ML- and PB pipes

- Material: steel, plastic

d (mm)	Code	SP	Weight (kg)
16	762 101 116	1	0.188
20	762 101 120	1	0.205
25	762 101 125	1	0.252
32	762 101 132	1	0.323



iFIT Pipe cutter plastic For ML- and PB pipes d16-d32

d (mm)	Code	SP	Weight (kg)
16 - 32	762 101 117	1	0.386
Spare blades	762 101 118	1	0.005



iFIT Chamfering tool to battery tools metal

d (mm)	Code	SP	Weight (kg)
16	762 101 351	1	0.188
20	762 101 352	1	0.205
25	762 101 353	1	0.252
32	762 101 354	1	0.323



iFIT Grab rail set metal

d (mm)	Code	SP	Weight (kg)
16 - 32	762 101 361	1	0.050



iFIT Quick-change insert metal

d (mm)	Code	SP	Weight (kg)
16 - 32	762 101 362	1	0.039



iFIT Tool case empty plastic For chamfering tool

d (mm)	Code	SP	Weight (kg)
16 - 32	762 101 363	1	2.000



iFIT Outside pipe bending tool metal For ML pipes

- Material: metal

d (mm)	Code	SP	Weight (kg)	L (mm)
16	762 101 112	1	0.442	500
20	762 101 113	1	0.541	500
25	762 101 114	1	0.636	500
32	762 101 115	1	0.798	500

Notes

Local support around the world

Visit our webpage to get in touch with your local specialist:

www.gfps.com/our-locations



The information and technical data (altogether "Data") herein are not binding, unless explicitly confirmed in writing.
The Data neither constitutes any expressed, implied or warranted characteristics, nor guaranteed properties or a guaranteed durability. All Data is subject to modification. The General Terms and Conditions of Sale of Georg Fischer Piping Systems apply.