GF Piping Systems

+GF+

Product Range International 2023

INSTAFLEX iFIT



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General information

Al	Aluminium
BF	Butt fusion
Brass	Alloy made of copper and zinc (wetted parts in dezincification resistant quality, DZR brass)
d	Pipe outside diameter
dCu	Copper pipe outside diameter
DN	Nominal bore
EPDM	Ethylene propylene diene monomer (M-class) rubber
EPS	Expanded Polystyrene
EVOH	Ethylene vinyl alcohol
EF	Electro fusion
Gunmetal	Known as red brass in the United States, type of bronze an alloy of copper, tin and zinc
HWS	Heiz-Wendelschweissen, GF Electro fusion system
HMS	Heiz-Muffenschweissen, GF Socket fusion system
Malleable Cast iron	Cast iron that has been toughened by gradual heating or slow cooling
PA-GF	Polyamide glass-fibre reinforced
PB	Polybutene
PE	Polyethylene
PE-HD	Polyethylene, high density
PE-RT	Polyethylene
PE-Xa	Cross-linked polyethylene, using the peroxide (Engel) method, after the installation, PE-Xb has the same properties as PE-Xa
PE-Xb	Cross-linked polyethylene, using the silane method after the installation, PE-Xb has the same properties as PE-Xa
PE-Xc	Cross-linked polyethylene, using the electron beam process
PP	Polypropylene
PPSU	Polyphenylsulfone
s	Wall thickness of the pipe
Ø	Diameter
UBA	Umwelt Bundesamt, Germany
LK	Hole circle
SW	Dimension across flats (A/F)
SF	Socket fusion
G	Pipe thread, not pressure tight in the thread (with flat seat) to ISO 228
R	Taper male thread, pressure tight in the thread to ISO 7
Rp	Parallel female thread, pressure tight in the thread to ISO 7
M	Metric thread to ISO 261
m	Meter
SP	Items per standard pack
g	Gramme

All dimensions are given in mm and are intended as nominal or outside diameter of the pipe. Subject to alteration resulting from modifications in design.

For compressed air applications with air containing mineral oil, EPDM gaskets must be replaced by NBR units.

NBR gaskets are not contained in this Product Range. Please contact the GF Piping Systems sales consultant or sales support office assigned to your sales area.

Technical changes and mistakes reserve.

GF Piping Systems

Building the lifelines of the world

GF Piping Systems is the global specialist for the safe and reliable transportation of water, chemicals, and gas. Customers in more than 100 countries implement our solutions to work more safely, efficiently, and cost-effectively.

Your partner for modern plastic systems

Customers in more than 100 countries are already working with the plastic piping systems that GF Piping Systems introduced more than 60 years ago. They are maintenance-free, resistant to corrosive and aggressive media, and are extremely durable. Their low weight, compared to metal systems, reduces static and logistic requirements. An innovative design and modern jointing technologies allow faster and easier installations. All this helps our customers to work more safely, efficiently, and cost-effectively. Support throughout the transition from metal to plastic systems is a key focus for our specialists.



+ Maintenance-free plastic

Plastics are corrosion-free and maintenance-free. They have excellent chemical resistance and last as long as the system itself, which is more than 25 years.

+ Complete system solutions

Our portfolio of more than 60,000 products offers complete system solutions, meaning you get perfectly matched components from a single source.

+ Local support

GF Piping Systems specialists are located in 34 countries and are therefore always close at hand, meaning that advice and on-site practical assistance is never far away.

+ Partner in all project phases

The specialists from GF Piping Systems support you throughout all phases of your project – starting from the planning stage, right through to commissioning. This reduces both the time required and risks.

+ Many years of experience

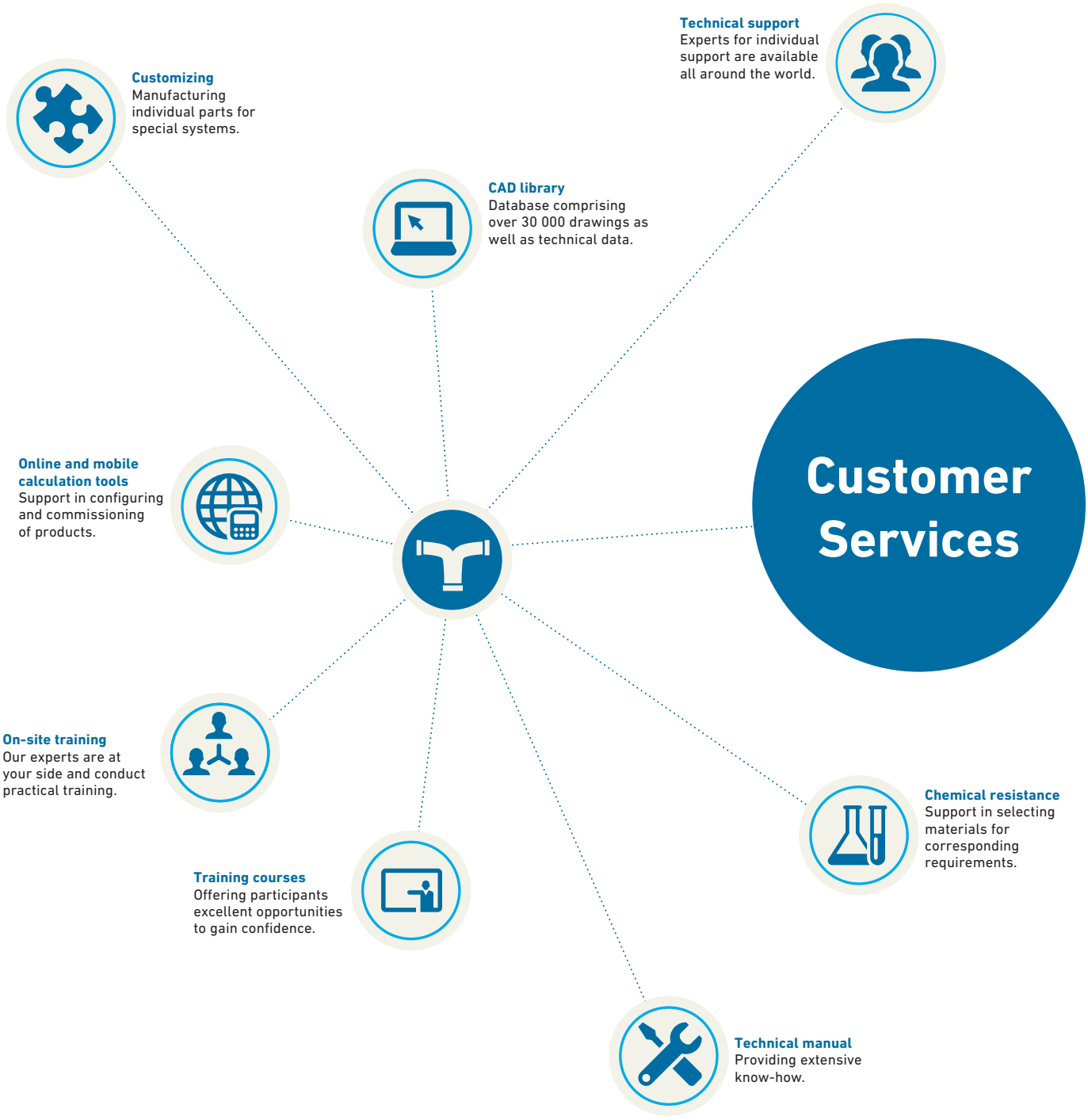
GF Piping Systems is a division of Georg Fischer AG, based in Schaffhausen, Switzerland, which was established in 1802. You benefit from our many years of experience.



Building Technology

Individual service for your needs

Customer needs are in the center of whatever GF does. From on-site training to adapted design and tailor-made processes - GF Piping Systems provides individual service which fits customers best.



Value added services

From planning support to implementation – our specialists are always close by

As a leading provider of piping systems in plastic and metal, we offer our customers not only reliable products, but also a large package of services. Our support ranges from a comprehensive technical manual or the extensive CAD library to an international team of experts, who work closely together with local sales companies. And when it comes to implementing a project, our customers additionally benefit from a wide range of training courses, either on site or in our modern training centres worldwide.

Generating a genuinely individual added value for our customers is our ultimate goal when implementing our tailor-made solutions. With our application knowledge and product expertise, we support our customers during the planning process, the sustainable realization of the projects and the provision of services. Our expertise in developing and producing piping systems, combined with our profound industry and market knowledge, based on longstanding experience, makes us a qualified and professional partner for our customers.

1 Chemical resistance
Our specialist teams have decades of experience in the area of chemical resistance. They can offer individual support and advice in selecting the right material for the corresponding system solution. On request, a team will examine and select the appropriate material for special applications.

2 CAD library
The extensive CAD library is the most frequently used planning tool at GF Piping Systems. The database comprises over 30 000 drawings and technical data regarding pipes, fittings, measurement and control technology as well as manual and actuated valves. The big advantage of the CAD library is that the data can be integrated directly in CAD models.

3 Technical support
Technical support and material selection are key factors for a successful installation. A team of specialists headquartered in Switzerland is available to support the GF Piping Systems sales companies around the world. For technical advice or for general information, our customers are supported individually by the specialist team in the corresponding sales company.

4 Online and mobile calculation tools
Our numerous, multilingual online calculation tools are very useful for configuring and calculating. By means of pressure / temperature diagrams, the pressure of liquid media recommended for pipes and fittings at various temperatures can be easily defined. FlowCalc App, the mobile application of GF Piping Systems, is an on-site planning tool for pipe diameter and flow velocity calculation to select the right dimension of piping systems when no expert is near by.

5 On-site training
Our experts are available to support our customers locally and conduct training in diverse fusion and jointing techniques on location. The duration and structure of the training depends on the project and the system being installed.

6 Customizing
The customizing teams at GF Piping Systems work closely together around the globe. The focus of these teams is to manufacture custom parts for special systems. In addition, a variety of special solutions can be produced in small series. Standardized processes warrant the highest level of quality for the individual solutions of our customers.



7 Technical manual

For our customers, we have documented the extensive know-how of GF Piping Systems in planning and installing plastic piping systems in our technical manual. This detailed documentation is available in both printed and digital version. The established reference book is helpful in planning large and small projects.

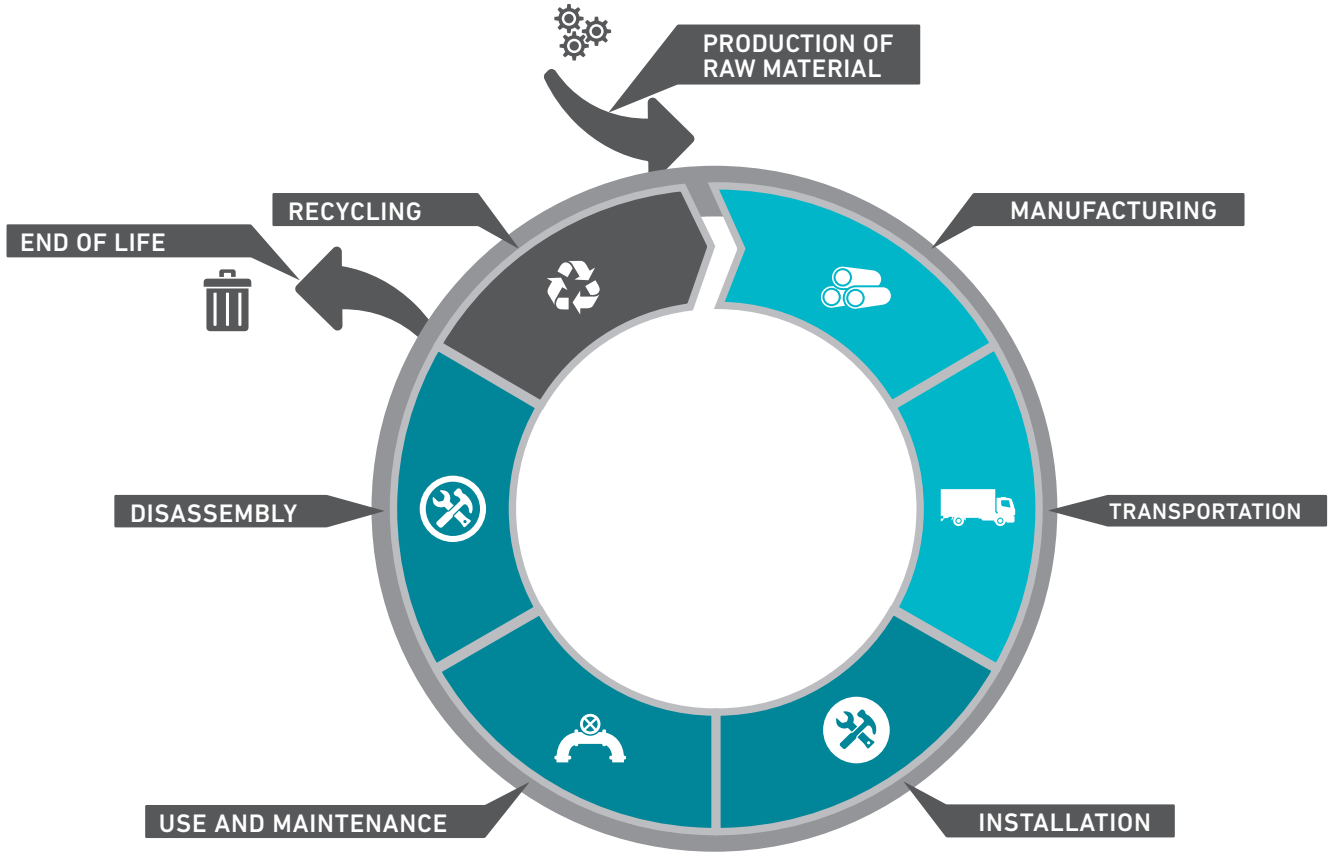
8 Training courses

GF Piping Systems offers a wide range of training courses that allow participants to gain confidence in working with our products and proven jointing technologies. The practical training is clearly defined, structured and adapted to the various levels of participants' experience.

Sustainability

GF Piping Systems incorporates its environmental responsibility into its everyday business activities. Because we understand environmental awareness as one of the corporation's core values, all internal structures and processes are geared towards sustainability. We strive to conserve natural resources and work continually towards optimizing the environmental performance of our products and how they are used. Consequently, outstanding material properties and innovative technologies form the basis for our environmentally friendly and energy-saving solutions.

Product Life Cycle



Life Cycle Assessments of GF specific industry systems

GF Piping Systems proactively performs life cycle assessments to determine the environmental impact of its products. In cooperation with an independent institute, life cycle assessments of selected GF Piping Systems specific industry systems were calculated including a PB system for the distribution of hot and cold water on a cruise ship. The life cycle assessments cover the environmental impact over the whole life cycle.

BIM library

GF Piping Systems supports planners, contractors and design engineers using BIM (Building Information Modeling) software from Autodesk.

Due to the industrialization of the building industry, there is a strong demand for digital collaboration across different partners in a project. This can be best achieved when project partners agree on using common standards. As one of the most important goals is to give maximum support to its customers during a design phase, GF Piping Systems offers BIM content for market leading BIM Software.

Where standard Autodesk Revit libraries for the MEP (Mechanical, Electrical & Plumbing) Industry are generic and limited, our GF Piping Systems' BIM content supports an engineer more accurately in the design process. It allows a designer to setup piping systems with reallife dimensions preventing errors and saving time. During an entire process, from initial concept design phase until delivery, an accurate bill of materials is available, showing detailed product information.

Customers' benefits:

- Package delivery
  - Embedded bill of material
  - Complete assortment overview and easy copying into specific project
- Real-life constructionlength
- Embedded article or product number and description
- 3D clearance zone

The first GF BIM library offers the content for COOL-FIT 2.0, INSTAFLEX and JRG Sanipex. GF Piping Systems products' portfolio for Autodesk Revit will be continuously expanded further and could be accessed via http://bim.gfps.com



Environmental product declaration

System

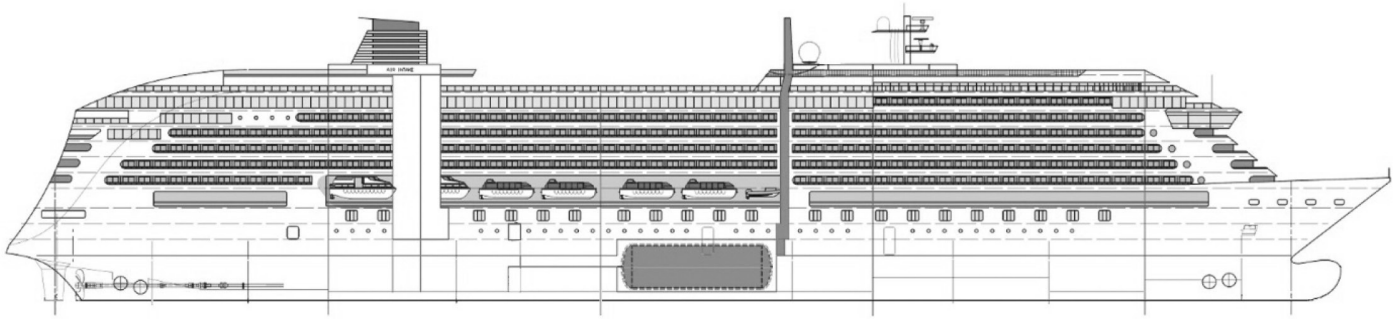
As an abstract of the Life Cycle Assesment (LCA) you will find follwing EPD (Environmental Product Declaration) regarding Polybutene installation. The entire EPD has been made according to ISO 15804 and is available for download on our website: www.gfps.com/sustainability

The analyzed case represents an exemplary system for the transport of fresh water to the cabins of a cruise ship. The installed piping system consists of the dimensions d110 (riser), d50 (decks) and d16 (cabins). The ship which has a length of 340 m comprises 18 decks with a length of 280 m and a total of 1 800 cabins. The system is installed in a dockyard in Turku (Finland). The used jointing technologies are socket welding and electrofusion.

Transferability of results to land based applications

From a piping system perspective, a cruise ship is nothing different than a swimming house. The installed product to provide hot and cold water on a ship are the same as installed in land based applications (like a hotel, hospital or an apartment building) to provide the same service.

The data in the EPD refer exactly to the scope and functional unit defined in the underlying LCA. However, the environmental impacts of an LCA calculated for a land based application would still indacate the product phase and the use phase as the two dominant phases.



Materials

The material of the main pipe system components (pipes and fittings) is PB. The whole system consists of the materials as listed below.

Reference service life time

20 years

Functional unit (FU)

The transport of hot and cold water in a PB piping system on a cruise ship via a riser (d110) and the decks (d50) to the taps of the toilet, shower and sink in the cabins (d16) over the whole lifetime of the system.

Material		Weight (kg)
PB		10 777
Brass		6 397
Plastics (other than PB)		403
Rubber		40
Steel		25
Paper		18
Printed wiring board		7
Other metals		6
Wire		5
Pump	Iron	2 356
	Bronze	398
	Steel	217
	Other metals	33
	Rubber	8
	Neoprene	2
Motor	Steel	1 752
	Other metals	976
	Plastics	19
	Insulation material	18
	Chemicals organic, not specified	9
	Paint	7

The system mainly consists of GF Piping Systems components. However, to complete the system also external components (Ext.) which are not produced by GF Piping Systems are necessary. The calculation of the environmental impact of these products is based on publicly available data and assumptions.

	Product Code	Pieces or meter	Material
System Components			
Cabin			
INSTAFLEX pipe, d16	760856606	32 400 m	PB
INSTAFLEX socket, d20	761066661	3 600	PB
INSTAFLEX electrofusion reducer d20/d16	761069277	3 600	PB (body) and others
INSTAFLEX elbow 90°, d16	760854842	7 200	Brass
INSTAFLEX brass tee 90°, equal, d16	760853125	7 200	Brass
INSTAFLEX single pipe outlet with flange, d16	760853013	10 800	Brass
Deck			
INSTAFLEX Pipe PB, d50	760856611	10 080 m	PB
INSTAFLEX weld-in-saddle, d50-d20	761068003	3 600	PB
INSTAFLEX electrofusion coupler, d50	761069205	1 728	PB (body) and others
Ball valve type 546, d20	760000343	3 600	PP-H (body) and others
Riser			
INSTAFLEX pipe, d110	760856615	180 m	PB
INSTAFLEX tee 90° equal, d110	761066629	72	PB
INSTAFLEX reducing bush, d110/d63	761066747	72	PB
INSTAFLEX reducing bush, d63/d50	761066690	72	PB
Pump connection			
INSTAFLEX Pipe PB, d110	760856615	10 m	PB
INSTAFLEX electrofusion coupler, d110	761069267	8	PB (body) and others
INSTAFLEX electrofusion elbow 90°, d110	761069223	1	PB (body) and others
INSTAFLEX flange adapter, d110	761069315	4	PB
INSTAFLEX backing flanges PN 16, d110	761065278	4	Iron
Butterfly valve type 567, d110	167567005	2	PP-H (body) and others
Motor	Ext.	6	Various metals and others
Pump	Ext.	6	Various metals and others

Parameters describing environmental impacts

	Impact category	Global warming	Ozone depletion	Acidification of soil and water	Eutro-phication	Photo-chemical ozone creation	Abiotic depletion - non fossil	Abiotic depletion - fossil
		kg CO_2 eq	kg CFC-11 eq	kg SO_2 eq	kg PO_4^{3-} eq	kg C_2H_4 eq	kg Sb eq	MJ
A1-3	Product stage	8.72E+04	7.30E-02	9.87E+02	4.23E+02	6.19E+01	1.31E+01	2.00E+06
A4	Transport to installation	4.01E+03	6.35E-04	2.66E+01	4.94E+00	7.85E-01	2.06E-02	5.95E+04
A5	Installation	2.83E+03	3.21E-04	8.42E+00	1.64E+00	2.38E+01	1.73E-02	3.65E+04
B1-5	Use, Maintenance, Repair, Replace-ment, Refurbish-ment	0	0	0	0	0	0	0
B6	Operational energy use	7.73E+05	9.20E-02	7.12E+03	4.18E+02	3.16E+02	1.18E-01	1.01E+07
B7	Operational water use	0	0	0	0	0	0	0
C1	De-construction/ Demolition	0	0	0	0	0	0	0
C2	Transport to end-of-life treatment	4.21E+03	6.41E-04	1.55E+01	2.97E+00	5.34E-01	3.41E-02	6.05E+04
C3	Waste processing	2.86E+04	1.67E-05	2.88E+00	6.43E-01	1.02E-01	3.77E-04	1.96E+03
C4	Disposal	0	0	0	0	0	0	0

The GF world of plastic piping

System	Material	Colour	Flammability
ABS	ABS	Mid Grey	Bright flame, drips, continues to burn away from flame
AQUASYSTEM	PP-R	Light brown Green/Grey	Bright flame, drips, continues to burn away from flame
Harvel Blazemaster	PVC-C	Orange	In flame carbonises, extinguishes away from flame
CONTAIN-IT Plus	PE100&PVC-U Containment pipe/ inside variable	Black/Grey/ Transparent	Bright flame, drips, continues to burn away from flame
CONTAIN-IT	PVC-U/inside variable	Transparent	In flame carbonises, extinguishes away from flame
COOL-FIT ABS Plus	ABS/PUR/PE	Black	Bright flame, drips, continues to burn away from flame
COOL-FIT PE Plus	PE/PUR/PE	Black	Bright flame, drips, continues to burn away from flame
Double-See	PVC-U&PVC-C (Containment)	Transparent	In flame carbonises, extinguishes away from flame
ecoFIT	PE100&PE80	Black	Bright flame, drips, continues to burn away from flame
ELGEF Plus	PE	Black	Bright flame, drips, continues to burn away from flame
FUSEAL	PP-NFR	Grey/Blue	In flame carbonises, extinguishes away from flame
FUSEAL 25/50	PVDF	Blue	In flame carbonises, extinguishes away from flame
iFIT	PB, ML, PEX	White	Normal flammable
INSTAFLEX	PB	Grey	Continues to burn away from flame
MULTI/JOINT	GGG45/NBR or EPDM	Red/Black	Metal, non-flammable
PRIMOFIT	Malleable cast iron	Black/Galvanised	Metal, non-flammable
PROGEF Natural	PP-R	Transparent	Bright flame, drips, continues to burn away from flame
PROGEF Standard	PP-H&PP-R	Light Beige	Bright flame, drips, continues to burn away from flame
PROGEF Plus	PP-H&PP-R	Light Beige	Bright flame, drips, continues to burn away from flame
PVC-C	PVC-C	Light Grey	In flame carbonises, extinguishes away from flame
PVC-U	PVC-U	Dark Grey	In flame carbonises, extinguishes away from flame
PVC-U clear	PVC-U	Transparent	In flame carbonises, extinguishes away from flame
SANIPEX MT	PE-x/Al/PE-x	Black	
SeaCor	PVC-C	Dark Grey	In flame carbonises, extinguishes away from flame
SYGEF Plus	PVDF HP (High purity)	White - Opaque	In flame carbonises, extinguishes away from flame
SYGEF Standard	PVDF	White - Opaque	In flame carbonises, extinguishes away from flame
Harvel Shapes **	PVC/CPVC - PP/HDPE	Various/Custom	In flame carbonises, extinguishes away from flame

System	Operating Temperature	Dimension
	-50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140	
ABS	-50° C to + 60° C (d250 - d315 oper. temp +40° C)	d16 - d315, 3/8 - 8 inch
AQUASYSTEM	0° C to +95° C	d20 - d125
Harvel Blazemaster	0° C to +80° C	3/4 - 3"
CONTAIN-IT Plus	-40° C to + 140° C	d50/20 - d315/225
CONTAIN-IT	-0° C to + 60° C (outer)	4 + 6" outer
COOL-FIT ABS Plus	-50° C to + 40° C	d25 - d315
COOL-FIT PE Plus	-50° C to + 50° C	d250 - d450
Double-See	0° C to + 60° C	1 1/2 - 10"
ecoFIT	-50° C to + 60° C	d20 - d630 *
ELGEF Plus	-50° C to + 60° C	d20 - d2 000
FUSEAL	0° C to +100° C	1 1/2 -18"
FUSEAL 25/50	0° C to +140° C	1 1/2 - 6"
iFIT	0° C to +95° C	d16 - d32
INSTAFLEX	-10° C to +95° C	d16 - d225
MULTI/JOINT	-5° C to +50° C	d50 - d2 000
PRIMOFIT	-20° C to +105° C	3/8 - 4 inch/d20-d63
PROGEF Natural	0° C to +80° C	d20 - d110
PROGEF Standard	0° C to +80° C	d16 - d500
PROGEF Plus	0° C to +80° C	d20 - d315
PVC-C	0° C to + 80° C	d16 - d225, 1/4 - 24 inch
PVC-U	0° C to + 60° C	d6 - d400, 1/8 - 24 inch
PVC-U clear	0° C to + 60° C	1/4 - 12"
SANIPEX MT	0° C to + 95° C	d16 - d63
SeaCor	0° C to + 80° C	1/2 -6"
SYGEF Plus&Standard	-20° C to + 140° C	d16 - d450
Harvel Shapes **	0° C to + 80° C	1/4 - 12" (up to 22" PP/HDPE)

Jointing	Density (g/cm³)
Solvent cement	1.03
Butt, socket&electro fusion	0.90
Solvent cement&mechanical	1.55
Depending on material	–
Solvent cementing	–
Solvent cementing	–
Electro fusion	–
Solvent cement	1.4-1.52
Butt, socket, IR&electrofusion	0.93-0.95
Electro fusion	–
Electro fusion	0.9
Electro fusion	1.78
Push fit	0.94
Butt, socket&electro fusion, compression	0.94
Mechanical joints	–
Mechanical joints	–
Butt, BCF&IR	0.90
Butt, socket fusion&IR	0.90
Butt, socket fusion&IR	0.90
Solvent cement	1.5
Solvent cement	1.38
Butt fusion, Socket fusion	1.38
Mechanical joints	0.905
Solvent cement	1.38
Butt fusion, BCF&IR	1.78
Butt, socket fusion, BCF&IR	1.78
Generally N/A-semi finished shape for machining	–

System	Nominal Pressure (PN)
ABS - BS inch	**PN15** (Class E $^{3}/_{8}$ - 4“)
	PN12 (Class D 6“)
	PN9 (Class C 1 - 8“)
	PN12 (Class 7T $^{1}/_{2}$ - 2“)
ABS - Metric	**PN10** (d20 - d225)
	PN6 (d250 - d315)
AQUASYSTEM	**PN20**
Harvel Blazemaster	**PN depending on size** ($^{1}/_{2}$ - 3“) Schedule System
CONTAIN-IT Plus	**PN depending on material**
CONTAIN-IT	**PN3** Schedule System
COOL-FIT ABS Plus	**PN10** (d25 - d225)
COOL-FIT ABS Plus	**PN6** (d250 - d315)
COOL-FIT PE Plus	**PN10** (d250 - d450)
Double-See	**PN4**
ecoFIT	**PN16** (d20 - d630)
	PN10 (d50 - d630)
ELGEF	**PN16** (d20 - d1 000)
	PN10 (d160 - d2 000)
FUSEAL	**PN depending on size** ($1^{1}/_{2}$ - 18“)
FUSEAL 25/50	**PN depending on size** ($1^{1}/_{2}$ - 6“)
iFIT	**PN10**
INSTAFLEX	**PN16** (up to d110; PN10 d125 - d225)
MULTI/JOINT	**PN16** (restraint)
	PN25 (non restraint)
PRIMOFIT	**PN16**
PROGEF Natural	**PN10** (d20 - d63)
	PN6 (d75 - d110)
PROGEF Standard	**PN10** (d16 - d500)
	PN6 (d50 - d500)
PROGEF Plus	**PN10** (d20 - d315)
PVC-C Metric	**PN16** (d16 - d160)
	PN10 (d75 - d225)
PVC-C SCH80/40	**PN depending on size** ($^{1}/_{4}$ - 24“)
PVC-U BS INCH	**PN16** (Class E $^{3}/_{8}$ - 6“)
	PN12 (Class D $^{1}/_{4}$ - 4“)
	PN9 (Class C 2 - 8“)
	PN12 (Class 7T $^{3}/_{8}$ - 2“)
PVC-U SCH80/40	**PN depending on size** ($^{1}/_{8}$ - 24“)
PVC-U Metric	**PN16** (d6 - d160)
	PN10 (d25 - d315)
	PN6 (d50 - d400)
PVC-U clear SCH80/40	**PN depending on size** ($^{1}/_{4}$ - 12“)
SANIPEX MT	**PN10** (d16 - d63)
SeaCor	**PN depending on size** ($^{1}/_{2}$ - 6“)
SYGEF Plus&Standard	**PN16** (d16 - d225)
	PN10 (d90 - d450)
Harvel Shapes **	N/A–solid rods/tubes/profiles–semi-finished, optimal machining

Benefit

- Excellent for cold water and chilled applications
- Excellent temperature - pressure behaviour
- Fire Sprinkler system
- Safely conveying hazardous media with process reliability
- Safely conveying hazardous media with process reliability
- Three-in-One system, excellent properties
- Three-in-One system, excellent properties
- Safety system to transport hazardous media
- UV&weather resistance, flexible and strong at low temperature
- Leak free welded system
- Resistant to alkalis, alcohols, acids, solvents and salt solutions
- Resistant to alkalis, alcohols, acids, solvents and salt solutions
- Easy jointing, for all building services applications
- Hot and cold water sanitary system, compressed air
- Connection to all types of pipes
- Corrosion retarding, drinking water friendly
- Pigment free polypropylene with smooth surface
- High stress fracture-, pressure-, abrasion-, corrosion resistance
- Silicon-free or oil-free system with a high pureness factor
- Chemical and higher temperature resistant
- Easy and fast to joint, very good chemical resistance
- Visual monitoring of Process
- Hot and cold water system, hygienically perfect
- USA coast guard approved piping
- High purity, outstanding chemical resistance, UV-resistant
- Semi-finished rod/tube/profiles, optimal for machining, excellent chemical & corrosion resistance

inch - metric ranges (mm)

(Pipe Sizes nearest equivalent)

inch	$^{3}/_{8}$	$^{1}/_{2}$	$^{3}/_{4}$	1	$1^{1}/_{4}$	$1^{1}/_{2}$	2	$2^{1}/_{2}$	3	4	4	5	6	6	8	8	10	10	12	14	16	18	20	20	24
d	16	20	25	32	40	50	63	75	90	110	125	140	160	180	200	225	250	280	315	355	400	450	500	560	630
DN	10	15	20	25	32	40	50	65	80	100	100	125	150	150	200	200	250	250	300	350	400	450	500	500	600

d = mm

* For more information about larger dimensions please contact our local sales companies.
Visit our website for more detail system information: www.gfps.com

** Detail Harvel Shapes Information: www.harvelshapes.com

Prefabrication

Introduction

As an example for prefabrication we show you an easy method using the well known malleable cast iron fittings. This method can be used as well for plastic piping systems.

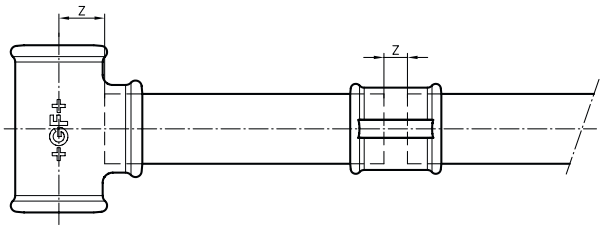
The z dimension installation method, developed by GF in conjunction with experienced installers of domestic and industrial piping systems, has been proving its worth for years in practical applications. The method offers a basis for efficient planning, preparation for work and preliminary assembly and can result in savings in time and effort:

- staff use can be reliably planned
- administrative work more easily completed
- calculation and costing simplified
- optimised machine use
- reduced storage requirement of own fittings and pipes
- optimisation of transportation the pipeline layout can easily be recognized by the pipeline diagram.

z dimension

The z dimension – also called «laying length» is the middle distance between

- installed pipe end and the axis of the fitting or
- the ends of two installed pipes



The z dimensions are calculated from the overall lengths less the average length of engagement. z dimensions were introduced by GF with a view to rational planning and preparation for work.

Requirements

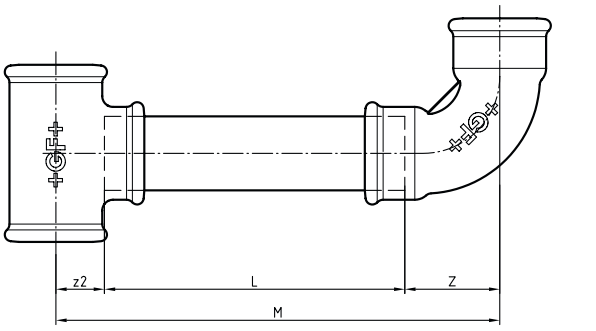
The z dimension method relies on:

- knowledge of the pipeline layout
- knowledge of the space requirements of valves, appliaces and their locations.
- coordination with architect, planner, works management and the other businesses who work may have an influence on the pipeline layout.
- use of fittings with consistant dimensional accuracy, such as GF's.
- Pipe threads conforming to standards, implying combined exact adjustment of the threading machine.

z dimension and measurement procedure

z dimension and uniform measuring procedure are the core of the GF installation method.
The z dimension is the pipe installers «design dimension». With its help he can easily calculate the exact pipe length between fittings and/or valves. The principle of forms the basis for determining and using the z dimension.

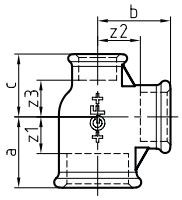
standardised measuring centre - centre = M



Pipe length L = M - (z2 + z)

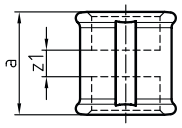
Prefabrication

The z dimension is calculated as the difference between «dimension face – middle» (a, b or c) and length of engagement of the pipe thread.

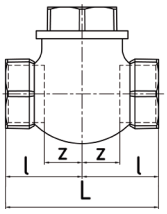


For fittings, e.g. tee no. 130, reduced branch and run:
z1 = a-length of engagement
z2 = b-length of engagement
z3 = c-length of engagement

The fitting's bead deliberately put on the GF fittings can be used as a measuring aid.



Exception – socket no. 270, 271:
z1 = a-2 length of engagement



For valves:
z = l – length of engagement
If the total overall length is indicated by L,the following applies:

z = L/2 – length of engagement

Pipe threads

Another precondition for using the GF z dimension method is that the pipes are cut with the correct standardised threads. This assures that all pipes with the connecting pieces can be screwed together equally far and the dimensions M taken asa base are also correct after installation.

The pipe thread must be cut clean and to EN 10226-1 standard (or ISO 7-1 with a taper of 1:16). The taper pipe thread also produces a strengthening of the pipe residual wall in the second half of the thread. Unequal thread lengths influence the centre-centre dimension M and have a negative effect particularly for straight section with several branches.

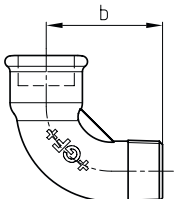
Note:
The centre-centre dimension (M) can show a permitted tolerance of ± 1/2 thread.

Length of engagement

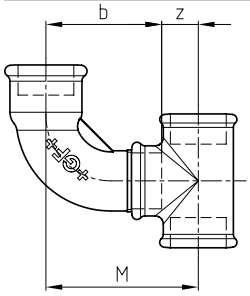
The nominal engagement length of the pipe external thread are (rounded values):

Joint size	Average length of engagement in mm
1/8	**7**
1/4	**10**
3/8	**10**
1/2	**13**
3/4	**15**
1	**17**
11/4	**19**
11/2	**19**
2	**24**
21/2	**27**
3	**30**
4	**36**

Prefabrication

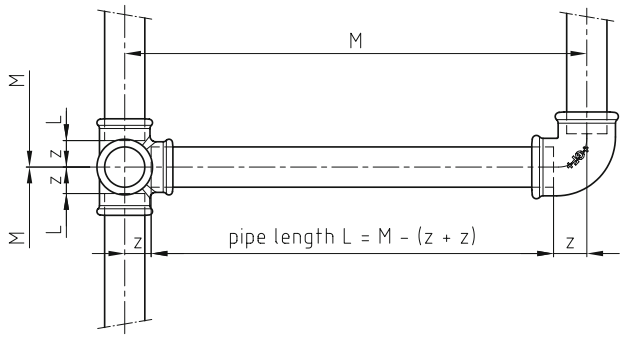


b is the distance of internal thread centre to face of the external thread.

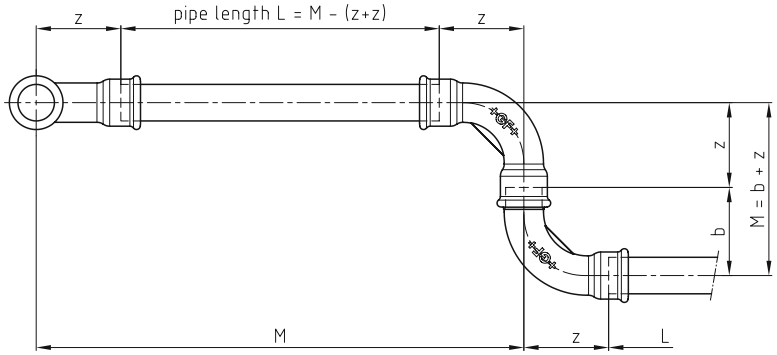


For fittings combinations with internal and external threads the sum of z + b produces the axial distance M:

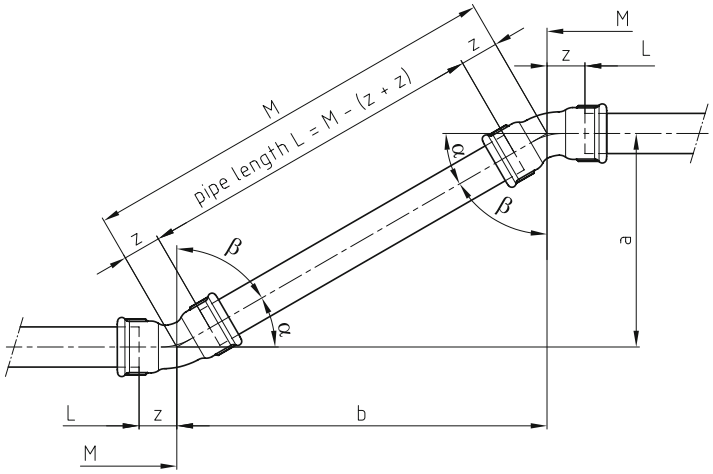
M = z + b



Principle of the z dimension installation method:
uniform measuring
centre - centre = M



Exact pipe thread lengths produce exact M dimensions.



The M dimension for sloping pipeline parts is easily calculated with the factor or numerical table.

Prefabrication

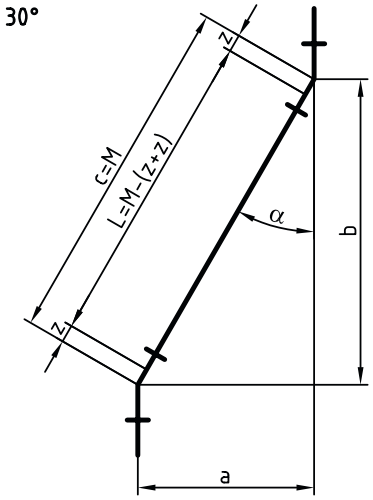
Parts of a pipeline diverging from the horizontal and verticals can only be accurately marked out in a few cases. Accurate results are obtained by rectangular measuring and determining the remaining (triangle) side lengths.

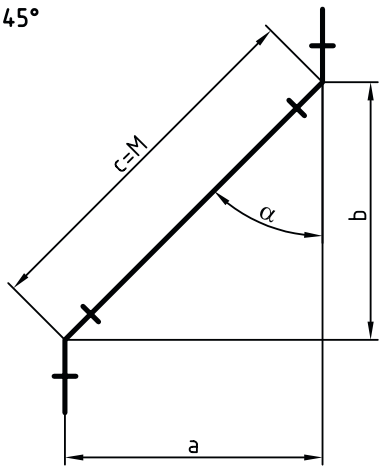
There are two possibilities for calculating the pipe lengths by means of the z dimensions:

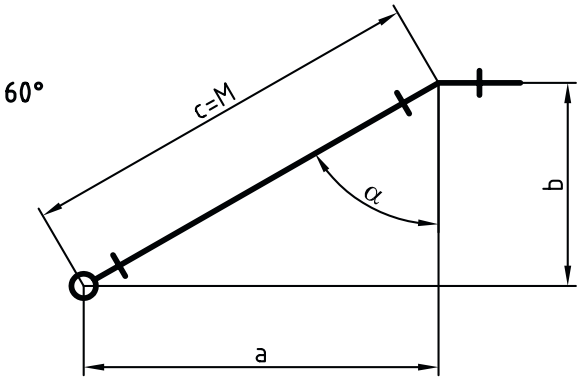
1. Factor table

given:		a		b	
		Factor for		Factor for	
α	β	b	c = M	a	c = M
75°	15°	0,268	1,035	3,732	3,864
60°	30°	0,577	1,155	1,732	2,000
45°	45°	1,000	1,414	1,000	1,414
30°	60°	1,732	2,000	0,577	1,155
15°	75°	3,732	3,864	0,268	1,035

α = given angle
β = accompanying angle
angle-dependent factors multiplied with the given dimension a or b = sought dimensions b and c or a and c.







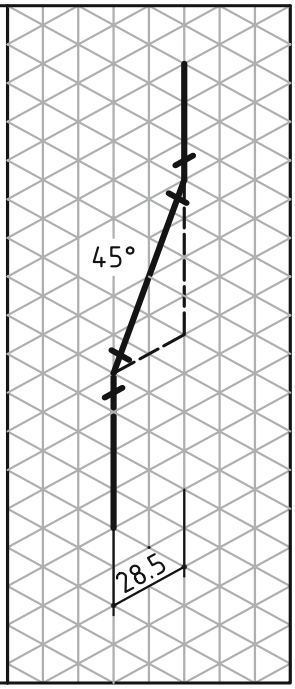
Example:

a = 28,5

α = 45°

c = M = 28,5 x 1,414

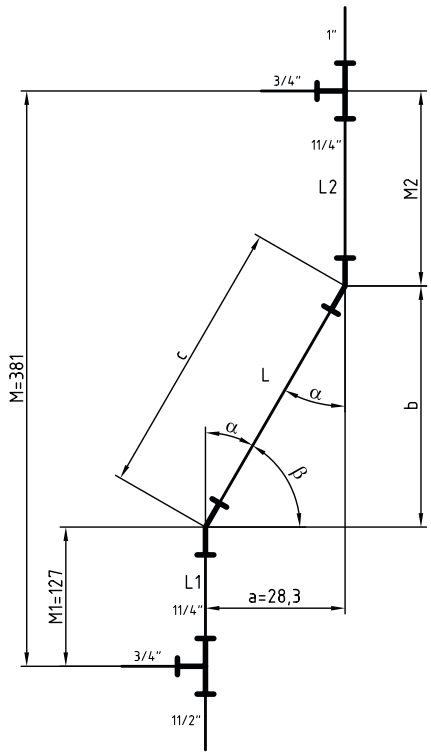
= 40,3



Prefabrication

2. Numerical table

Example:
Tier in a rising train of pipes. The dimensions M, M1 and a are taken on the site, the remainder are to be determined from the table.



Planned fittings (from bottom to top):
1 tee no. 130 - 11/2 x 3/4 x 11/4
2 bends no. 51 - 11/4
1 tee no. 130 - 11/4 x 3/4 x 1

The projection a is 28.3 cm = 283 mm. 283 consists of 3 + 80 + 200. In columns b and c we find the partial values belonging to 3, 80 and 200 for the perpendiculars b and the slopes c.

In this case lengths b and c result from adding up the partial values α = 30°, β = 60°.

a (known)	b	c
3 mm	5,2 mm	6 mm
80 mm	138,6 mm	160 mm
200 mm	346,4 mm	400 mm
283 mm	**490,2 mm**	**566 mm**
or a=28,3 cm	b=49,0 cm	c= 56,6 cm

Pipe length L = c - (2 x z dimension of bend no. 51 - 11/4)
z dimension bend = 33 mm
L = 56.6 - (2 x 3.3) = 56.6 - 6.6 = 50 cm

Pipe length L1 = M1 - (sum of the z dimension of tee piece no. 130 - 11/2 x 3/4 x 11/4 and bend no 51 - 11/4)
z dimension tee no. 130 (on 11/4 exit) = 17 mm
z dimension bend = 33 mm
L1 = 127 - (1.7 + 3.3) = 127 - 5 = 122 cm

M2 = M - (M1 + b), M1 = 127, b = 49
M2 = 381 - (127 + 49) = 381 - 176 = 205 cm

Pipe length L2 = M2 - (sum of the z dimensions of bend no. 51 - 11/4 and tee piece no. 130 - 11/4 x 3/4 x 1)
z dimension bend = 33 mm
z dimension tee no. 130 (on the 11/4 exit) = 17 mm
L2 = 205 - (3.3 + 1.7) = 205 - 5 = 200 c

Clear outlining of the pipework

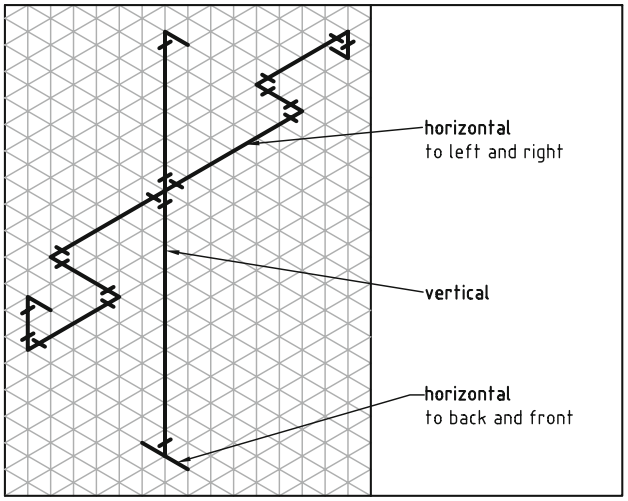
The isometric diagrams of pipes and horizontal projections are ideal for quick preparation when using the GF installation method.

The drawing of the pipework should be given in a simple but effective way. The diagrams can be sketched by the installer himself on the spot.

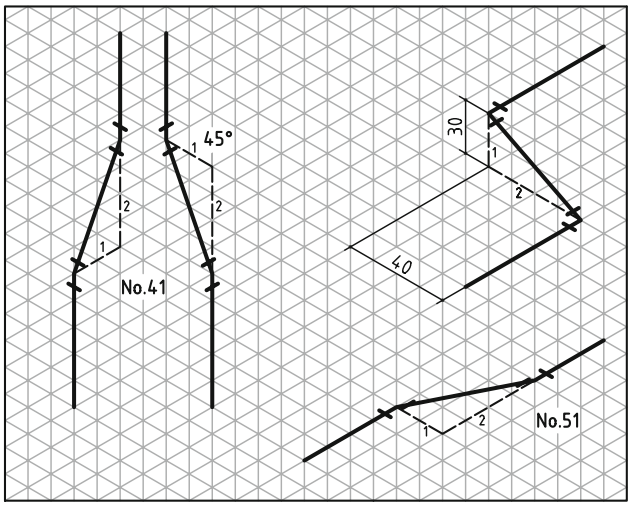
This type of representation enables quick outlining with no aids such as ruler, set square etc. either directly on the site of installation or according to a plan. The pipework system to be installed is alwaysclearly recognisable with all necessary fittings, valves etc.

The 30° pipeline diagram (3D plan) is intentionally not drawn to scale, i.e. long pipe sections are made shorter, short pipe sections are to a large extent made somewhat longer. In this way even extensive pipe systems can be represented on an A4 sheet of paper.

Pipelines running at right angles to each other are drawn as shown below:

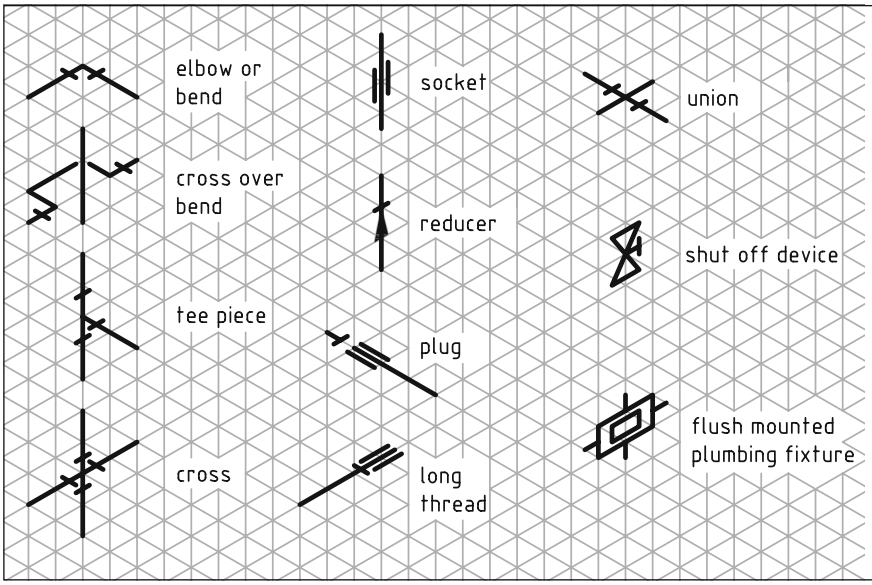


Pipelines sloping in relation to each other are drawn as shown in the example below:



Changes of direction are shown in the ratio of 2:1 or 1:2 irrespective of angles and dimensions. By drawing in the triangle as an aid the change of direction is set accurately. The divergence is established by giving the type of fitting (catalogue no. or angle) or by dimensioning.

Fittings and/or jointing points can be marked with a small dash, valves with the standardized symbols.



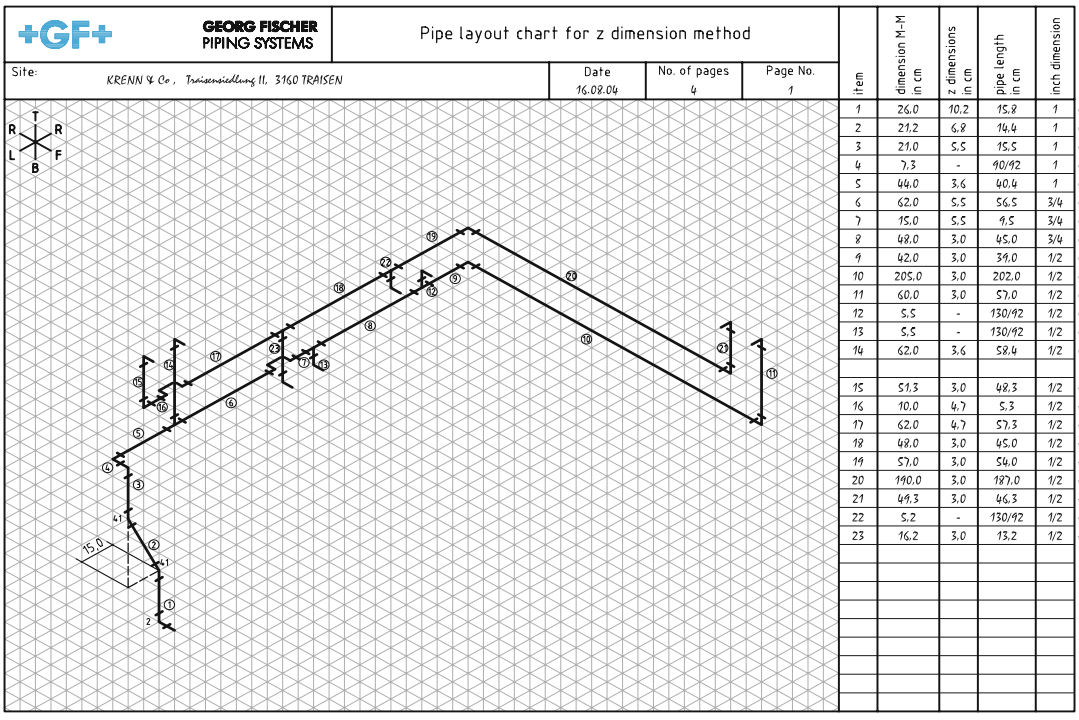
The most important symbols for drawing of pipe work on the GF pipe layout chart

The GF pipe layout chart

The 30° pipeline diagram can be drawn on the GF pipe layout chart, for example. The oblong format selected is particularly suitable for use on the site. The area available for sketching, either allows sections of pipelines to be portrayed, or even more extensive part installations (e.g. cellar quantization, floor distributers) to be reproduced.

The advantages of the GF pipe layout chart are obvious:

- division of the installation work
- quick drawing of the pipework diagram
- clear record of the centre - centre dimensions
- very simple pipe length calculation
- basis for a summary of pipe components
- costing document
- thus offering real rationalisation:
- measure, mark, cut into lengths and cut the thread for all pipes of the same diameter one after the other.
- If the project documents are saved, the pipe layout chart makes it possible to determine the pipeline layout exactly even years later. Extensions or repairs can be carried out considerably more easily.



item	dimension M-M in cm	z dimensions in cm	pipe length in cm	inch dimension	
1	26.0	10.2	15.8	1	CW
2	21.2	6.8	14.4	1	CW
3	21.0	5.5	15.5	1	CW
4	7.3	-	90/92	1	CW
5	44.0	3.6	40.4	1	CW
6	62.0	5.5	56.5	3/4	CW
7	15.0	5.5	9.5	3/4	CW
8	48.0	3.0	45.0	3/4	CW
9	42.0	3.0	39.0	1/2	CW
10	205.0	3.0	202.0	1/2	CW
11	60.0	3.0	57.0	1/2	CW
12	5.5	-	130/92	1/2	CW
13	5.5	-	130/92	1/2	CW
14	62.0	3.6	58.4	1/2	CW
15	51.3	3.0	48.3	1/2	HW
16	10.0	4.7	5.3	1/2	HW
17	62.0	4.7	57.3	1/2	HW
18	48.0	3.0	45.0	1/2	HW
19	57.0	3.0	54.0	1/2	HW
20	190.0	3.0	187.0	1/2	HW
21	49.3	3.0	46.3	1/2	HW
22	5.2	-	130/92	1/2	HW
23	16.2	3.0	13.2	1/2	HW

Conclusions

The GF z dimension installation method is the tried and tested basis for the skilled worker and industrial prefabrication of pipework installations.

Its objective is to bring together the same repetitive production sequences to achieve a trouble-free flow of materials and work, to avoid idle time, minimise setting up time and doing the same work twice and provide the optimal solutions.

This calls for:
- division of the pipework systems in installation sections.
- division of production in pre-assembly (in the workshop or on site) and installation. It is avantageous to prepare as large a number of the installations as possible in the workshop.
- summarised record of all important site dimensions, to be able to carry out in series prefabrication.

A main rule for this:
Gather as many pipework sections as possible from the planning documents.

However, where sections must be decided on the spot (offsetting of variations in the dimensions of the solidium) the following applies:

Always measure where pipelines are to be laid.

The GF z dimension method enables:
- in series prefabrication
- rational use of material, skilled labour and machines
- reduction of installation times
- adaptability to building progress
- very large independence from building deadlines
- better preliminary conditions for carrying out non-local items
- better preliminary conditions for carrying out refurbishment work
- more accurate work with lower expenditure
- consistent quality

As a result of these advantages, installation planning, starting with the preliminary draft, should be included in the building plan. A prerequisiste of the rational running of building work is completed, co-ordinated planning of the implementation of work at its outset in its basic details.

+GF+

Pipe layout chart for z dimension method

Site:

T R L B F R

Date

No. of pages

Page No.

item	
dimension M–M in cm	
z dimensions in cm	
pipe length in cm	
inch dimension	

System overview INSTAFLEX

INSTAFLEX – the plastic piping system made of polybutene for applications in building services. Ideally suited for hot and cold water, cooling systems and compressed air. This system includes everything for conveying water from the basement to the tapping points.

Available in dimensions d16 – d315.



INSTAFLEX fits your application best

+ System solution

You benefit from the advantages of a system solution made of plastic for your installation from the building entry to the last tap. A single material from the basement to the roof.

+ Efficiency

You benefit from optimal cost. Prefabricated components reduces on-site time and costs.

+ Safety

You reap the benefits of having a permanently leak-proof and durable drinking water system.

+ Maintenance

The longevity of your drinking water system secures low maintenance.

+ Hygiene

INSTAFLEX made of polybutene provides safe and hygienic water.

+ Lifetime

Using INSTAFLEX, you benefit from the long lifespan of the material. Operating at 10 bar and 70°C, this system is designed for 50 years lifespan - the equivalent of two generations.

+ Solvent-free

INSTAFLEX is a solvent free ideal for drinking water system. During normal operation, the smooth pipe surface prevents deposits.

+ Corrosion-free

Installing INSTAFLEX, you have the advantages of a corrosion free drinking water system. Even during prolonged stagnation times no rusty water.

+ Life cycle assessment

Installing INSTAFLEX, you use the advantages of a material that can be fully recycled and has a low carbon footprint.

Approvals INSTAFLEX

LAND-BASED

DVGW
Deutscher Verein des Gas- und Wasserfaches e.V., Germany

SVGW
Schweizerische Verein des Gas- und Wasserfaches, Switzerland

ÖVGW
Östereichische Vereinigung für das Gas- und Wasserfach , Austria

VKF
Vereinigung Kantonaler Feuerversicherungen, Switzerland

CSTB
Centre Scientifique et Technique du Bâtiment, France

kiwa
Kiwa N.V., Netherlands

ACS
Attestation de Confirmité Sanitaire, France

aTg (BCCA)
Belgian Construction Certification Association

BSi
British Standards Institution

AENOR
Spanish Association for Standardisation and Certification

WRAS
Water Regulation Advisory Scheme, England

Approvals INSTAFLEX

MARINE

ABS
American Bureau of Shipping

RINA
Royal Institution of Naval Architects, England

DNV-GL
Det Norske Veritas- Germanischer Lloyd, Norway

BV
Bureau Veritas, France

LR
Lloyd's Register, England

RMROS
Russian Maritime Register of Shipping

Technical Data

Pressure loss chart

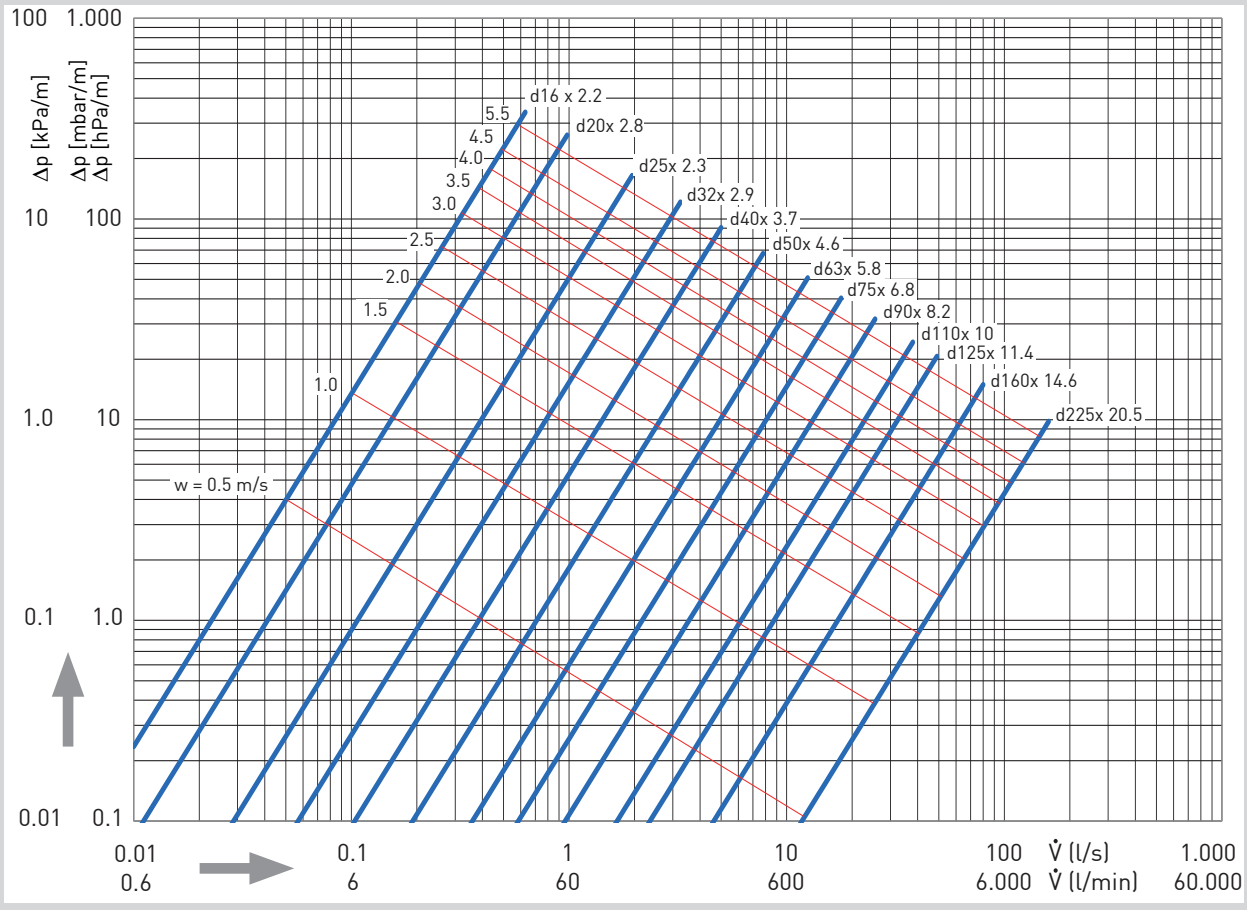
Pressure loss chart for INSTAFLEX PB pipes d16-d225

Pipe friction loss in relation to flow rate

Basis of calculation	
Water temperature ϑ_k	= 10°C
Surface roughness k	= 0.007 mm
Viscosity SI	= 0.00131 Pa·s
Density ρ	= 999.70 kg/m³

Recommended flow velocity according SVGW guideline W3/2013

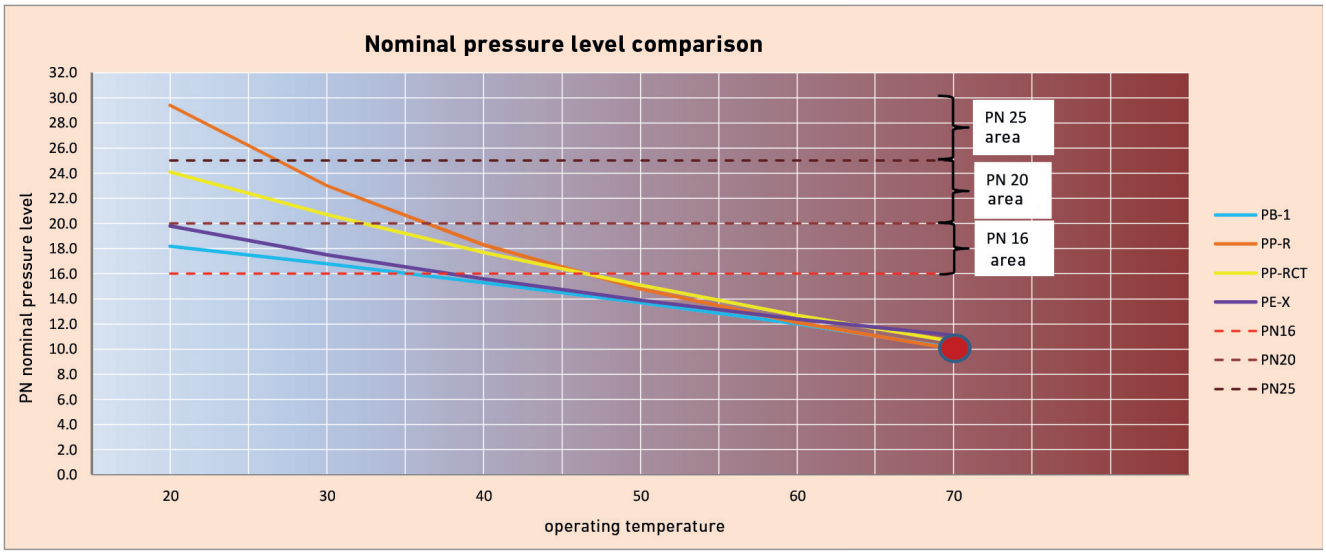
- max. 4.0 m/s for single outlet lines
- max. 3.0 m/s for apparatus lines
- max. 3.0 m/s for floor distribution lines
- max. 2.0 m/s for distribution lines



Correction factor values with different water temperatures / Facteurs de correction pour d'autres températures Fattore di correzione per varie temperature

ϑ_w/(°C)	10	20	30	40	50	60	70	80	90	95
f	1.000	0.955	0.915	0.870	0.835	0.805	0.775	0.753	0.737	0.730

Technical Data



Mobile Engineering Tools

For an individual and accurate engineering of your application please try our state-of-the art engineering tools

Planning Assistance

You plan – and we back you with our valuable expertise. Our customers enjoy support in many ways from detailed information on products, systems and materials to practical online calculation tools and personal assistance.

Personal Support

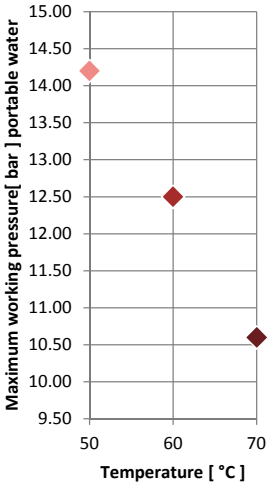
Our tools and documents answer many questions, but may-be not all. Your contact in your local sales office will provide you with the support you need in order to find a solution to your specific problem.



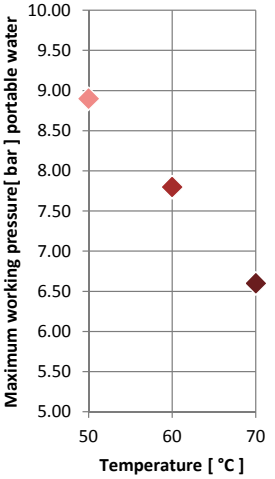
Technical Data

	Temperature [°C]	Time [years]	Polybuten PB-1
			Pipe serie s
			5
			SDR
			11
approved range	10	1	20.3
		5	20.1
		10	20.0
		25	19.7
		50	19.4
		100	19.1
	20	1	19.3
		5	19.1
		10	18.9
		25	18.5
		50	18.2
		100	17.8
	30	1	18.2
		5	17.9
		10	17.6
		25	17.2
		50	16.8
		100	16.5
	40	1	16.9
		5	16.5
		10	16.2
		25	15.7
		50	15.3
		100	15.0
	50	1	15.5
		5	15.0
		10	14.6
		25	14.1
		50	13.7
		100	13.4
	60	1	14.0
		5	13.2
		10	12.8
		25	12.3
		50	12.0
	70	1	12.3
		5	11.3
		10	10.9
		25	10.5
		50	10.1
calculated range	80	1	10.2
		5	9.3
		10	8.9
		12	8.8
		18	8.6
		25	8.4
	90	1	7.9
		4	7.2
		5	7.1
		6	7
		10	6.7
		15	6.5
	95	1	6.8
		2.5	6.3
		4	6
		5	5.9
		10	5.6

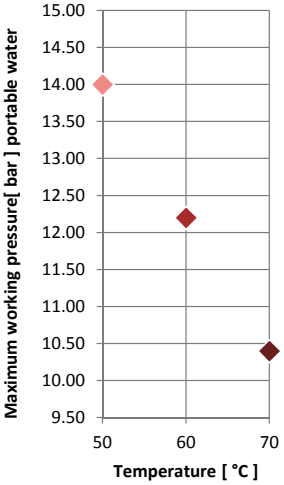
INSTAFLEX d16-d110 Working pressure (PN16) expected lifetime 20 years



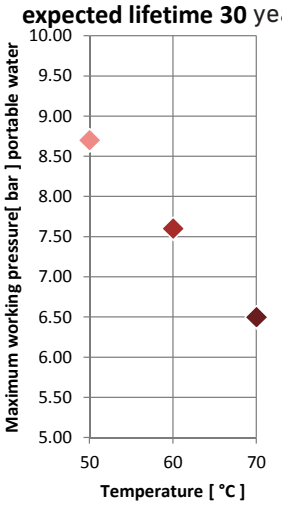
INSTAFLEX d125-d225 Working pressure (PN10) expected lifetime 20 years



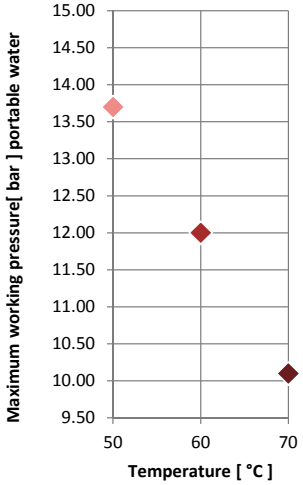
INSTAFLEX d16-d110 Working pressure (PN16) expected lifetime 30 years



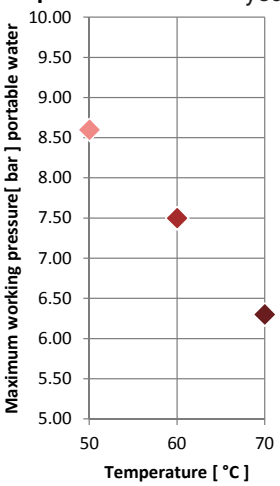
INSTAFLEX d125-d225 Working pressure (PN10) expected lifetime 30 years



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



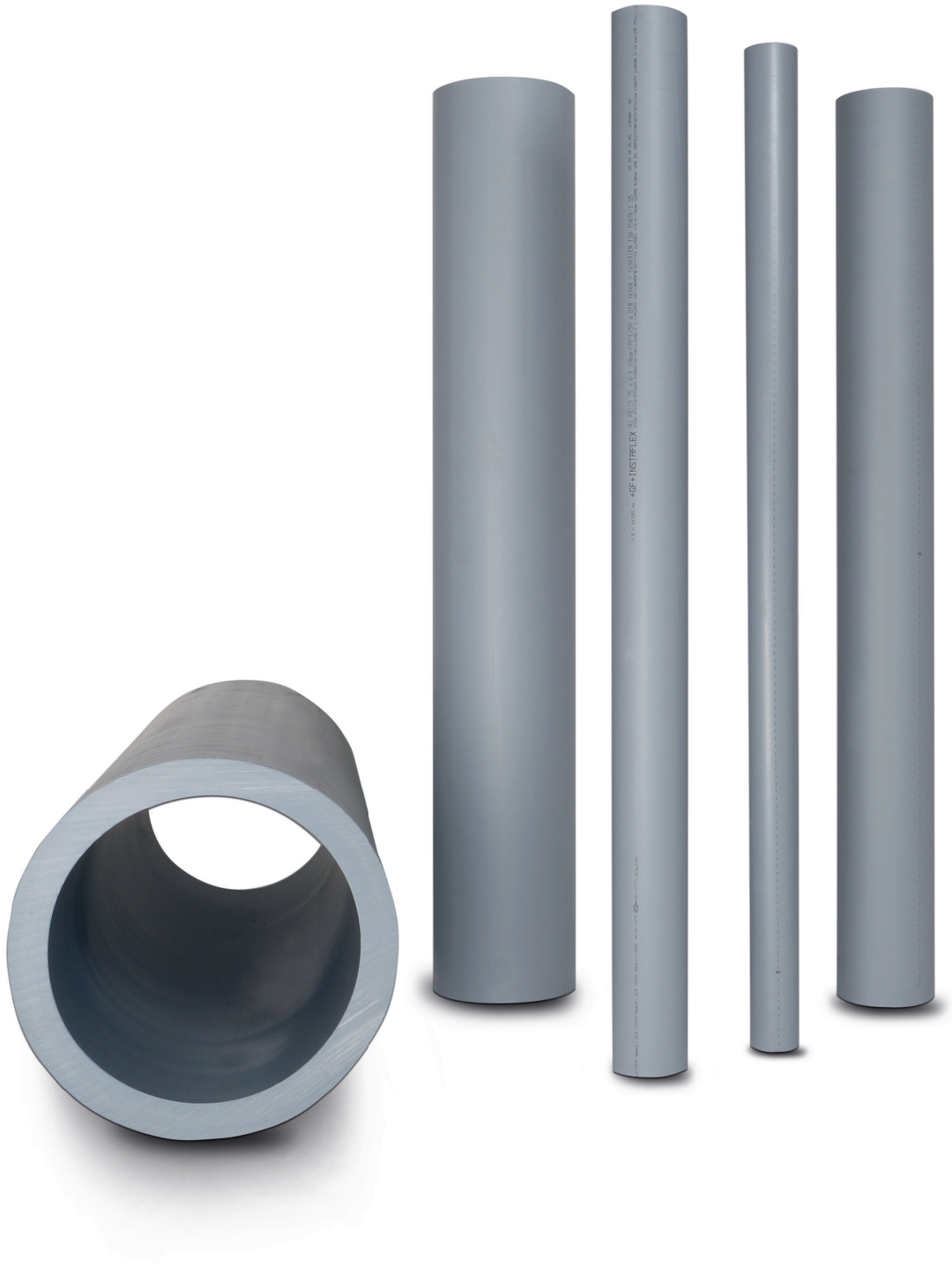
INSTAFLEX d125-d225 Working pressure (PN10) expected lifetime 50 years



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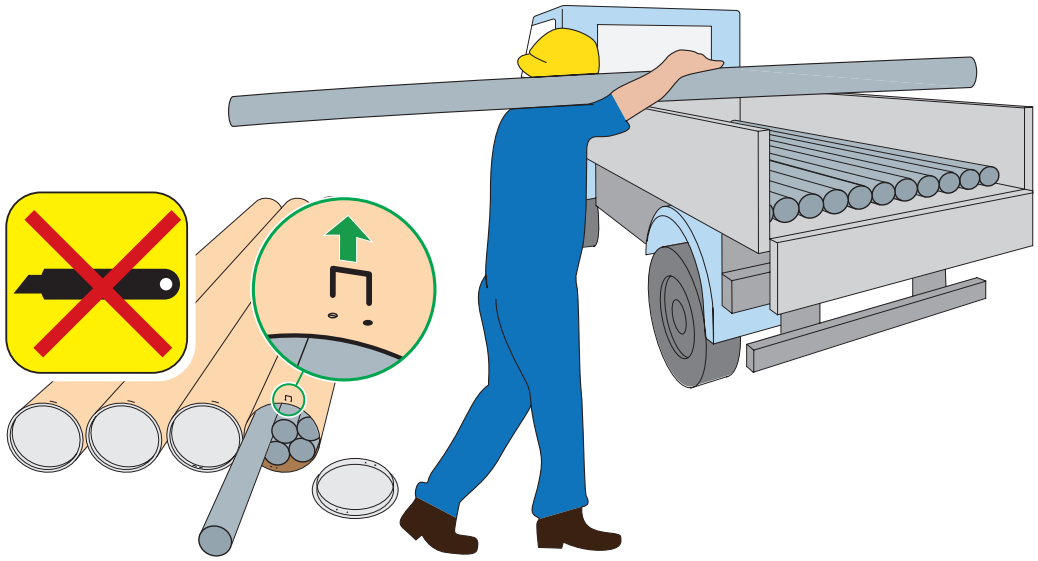
INSTAFLEX

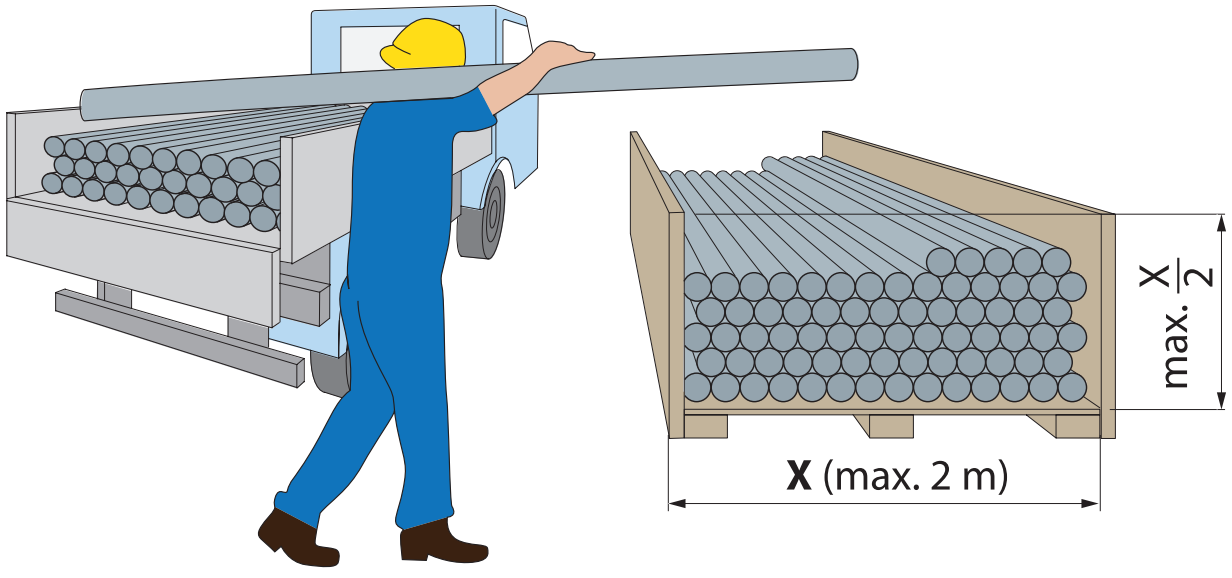
Pipes

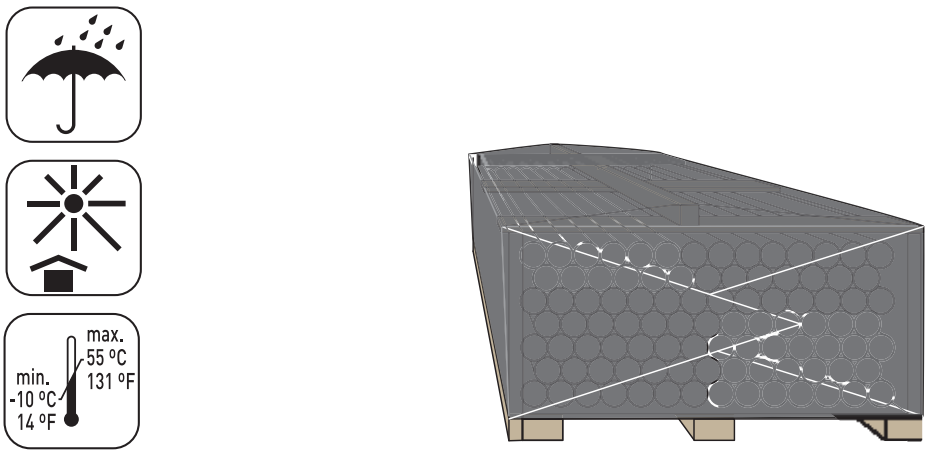


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Working with INSTAFLEX







Pipes



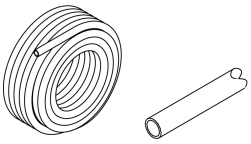


INSTAFLEX Pipe PB Bars

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

d (mm)	s (mm)	Code	SP	Weight (kg)	L (m)
16	2.2	**760 856 606**	9	0.097	5.8
20	2.8	**760 856 607**	9	0.151	5.8
25	2.3	**760 856 608**	10	0.165	5.8
32	2.9	**760 856 609**	4	0.270	5.8
40	3.7	**760 856 610**	3	0.416	5.8
50	4.6	**760 856 611**	3	0.645	5.8
63	5.8	**760 856 612**	1	1.020	5.8
75	6.8	**760 856 613**	1	1.440	5.8
90	8.2	**760 856 614**	1	2.060	5.8
110	10.0	**760 856 615**	1	3.050	5.8
125	11.4	**761 065 326**	1	3.950	5.8
160	14.6	**761 065 327**	1	6.460	5.8
225	20.5	**761 065 328**	1	12.700	5.8
315	28.6	**761 065 324**	1	24.800	3.0



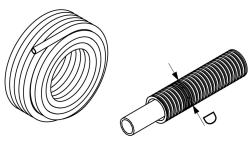


INSTAFLEX Pipe PB Coiled

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

	d (mm)	s (mm)	Code	SP	Weight (kg/m)	L (m)
	16	2.2	**760 853 389**	1	0.100	60
*	16	2.2	**760 853 395**	1	0.150	102
	16	2.2	**760 856 624**	1	0.100	400
	20	2.8	**760 853 390**	1	0.150	60
*	20	2.8	**760 853 397**	1	0.150	102
*	20	2.8	**760 853 398**	1	0.150	400
	25	2.3	**760 854 946**	1	0.165	30



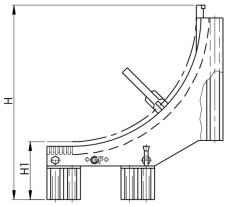


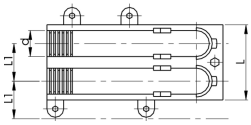
INSTAFLEX Pipe in protective pipe PB Coiled

Packed in cardboard boxes

d (mm)	s (mm)	Length (m)	Code	SP	Weight (kg)	D (mm)
16	2.2	60	**760 853 387**	1	0.162	25
20	2.8	60	**760 853 388**	1	0.235	30
25	2.3	30	**760 854 910**	1	0.284	34







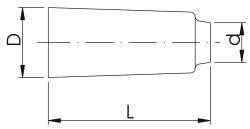
Pipe support plastic double

- Material: plastic

For iFIT, INSTAFLEX, JRG Sanipex, JRG Sanipex MT

d (mm)	Code	SP	Weight (kg)	L (mm)	L1 (mm)	H (mm)	H1 (mm)
16 - 20	**760 853 399**	12	0.269	90	45	235	70





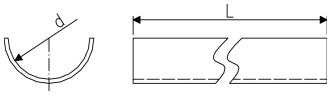
Cap long plastic For protective pipe

For iFIT, INSTAFLEX, JRG Sanipex, JRG Sanipex MT

- Material: plastic

d (mm)	Colors	Code	SP	Weight (kg)	D (mm)	L (mm)
16	red	**762 101 234**	10	0.006	25	70
16	blue	**762 101 235**	10	0.005	25	70
20	red	**762 101 236**	10	0.006	30	70
20	blue	**762 101 237**	10	0.005	30	70





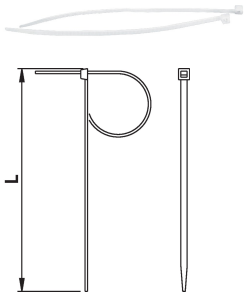
Pipe support tray galvanised

- Addition: clip

Only for INSTAFLEX and JRG Sanipex MT

For diameter over d90 no pipe support is required

d (mm)	Code	SP	Weight (kg)	L (mm)
16	**760 856 602**	10	0.550	3000
20	**760 856 603**	10	0.680	3000
25	**760 856 604**	10	0.844	3000
32	**760 856 605**	10	1.073	3000
40	**760 854 928**	10	1.335	3000
50	**760 854 929**	10	1.662	3000
63	**760 854 930**	10	0.570	3000
75	**760 854 985**	10	2.480	3000



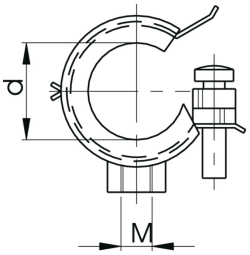
Pipe ties plastic

- Material: plastic

For iFIT, INSTAFLEX, JRG Sanipex, JRG Sanipex MT

d-d (mm)	Code	Weight (kg)	L (mm)
16 - 40	**760 853 283**	0.000	200
50 - 75	**760 853 284**	0.001	300
90 - 110	**760 854 984**	0.003	430

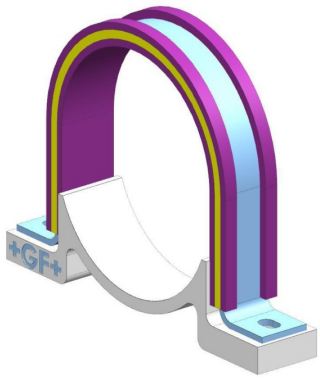




Pipe clamp
With rubber

For iFIT, INSTAFLEX, JRG Sanipex, JRG Sanipex MT

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

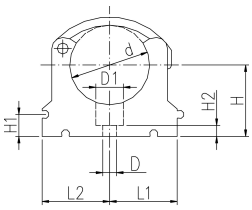


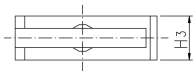
Pipe Brackets ROM

d (mm)	Code	SP	Weight (kg)
125	**761 070 337**	5	0.228
160	**761 070 338**	5	0.228
225	**761 070 343**	5	1.160









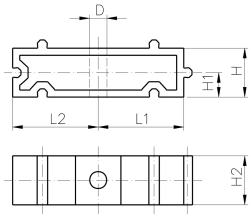
KLIP-IT pipe clip type 061 PE metric

Model:

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

	d (mm)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	SC
*	16	**173 061 005**	10	0.006	6	11	14	17	23	10	6	16	M5
*	20	**173 061 006**	10	0.007	6	11	17	19	25	10	6	16	M5
*	25	**173 061 007**	10	0.009	6	11	19	22	28	10	6	16	M5
*	32	**173 061 008**	10	0.011	6	11	24	27	31	10	6	16	M5
	40	**173 061 009**	10	0.026	7	14	34	34	35	10	7	22	M6
	50	**173 061 010**	10	0.028	7	14	37	37	40	10	7	22	M6
	63	**173 061 011**	10	0.047	9	17	45	45	52	10	10	25	M8
	75	**173 061 012**	10	0.061	9	17	52	52	58	10	10	25	M8
	90	**173 061 013**	10	0.098	9	17	65	65	64	10	10	28	M8
	110	**173 061 014**	10	0.125	9	17	79	79	75	10	10	28	M8





KLIP-IT spacer type 061 PE

Model:

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

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

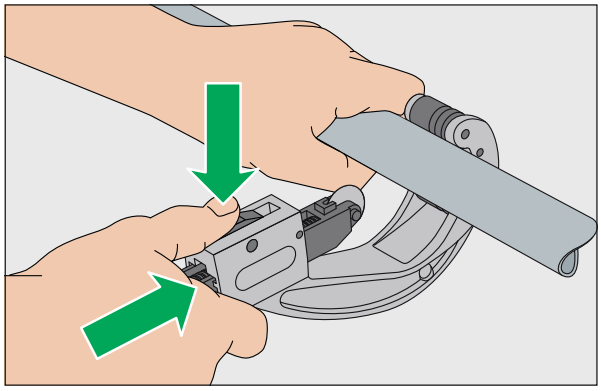
INSTAFLEX

Electrofusion jointing HWS

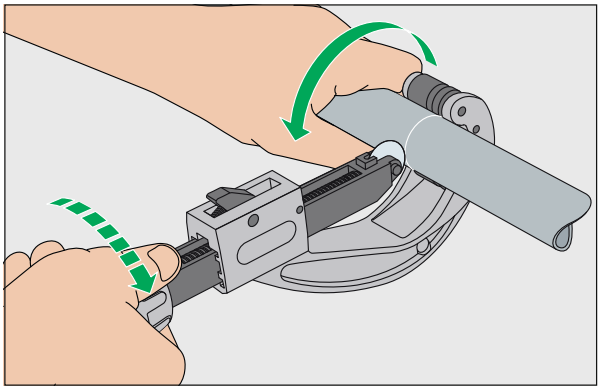


Electro fusion jointing - HWS		Page
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	Manifolds	56
	Flange adapters	57
	Special reducers	58
	Accessories	61
	Flanges	62

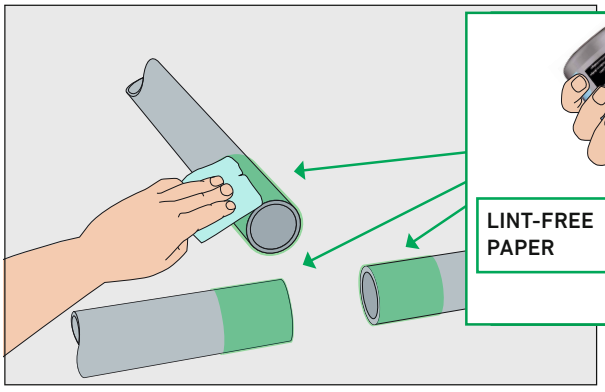
Electrofusion HWS d16-d110



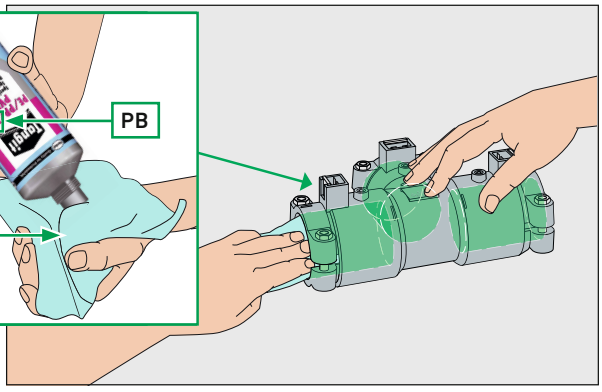
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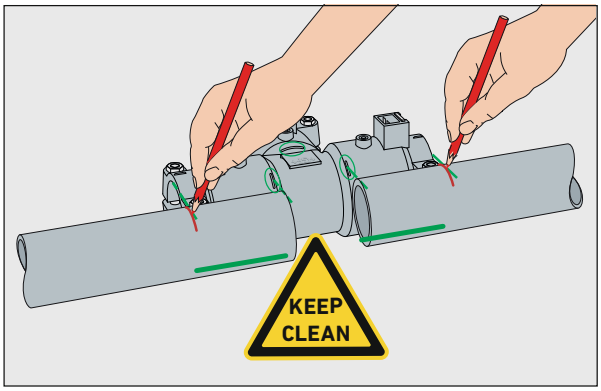
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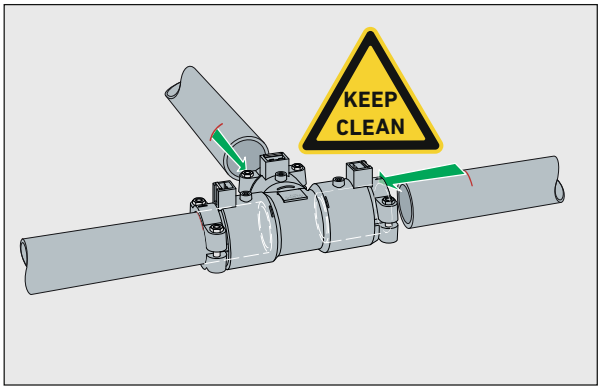
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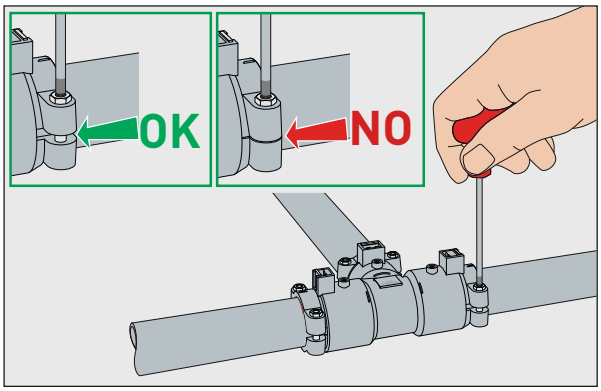
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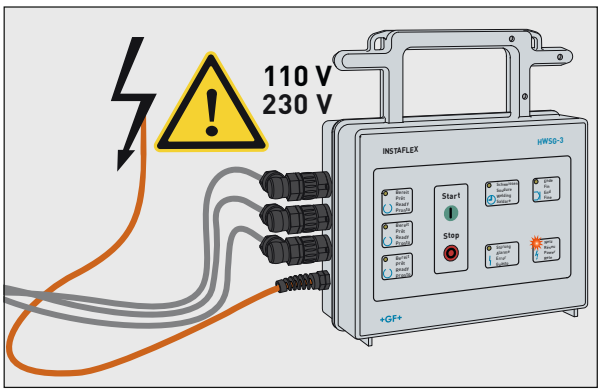
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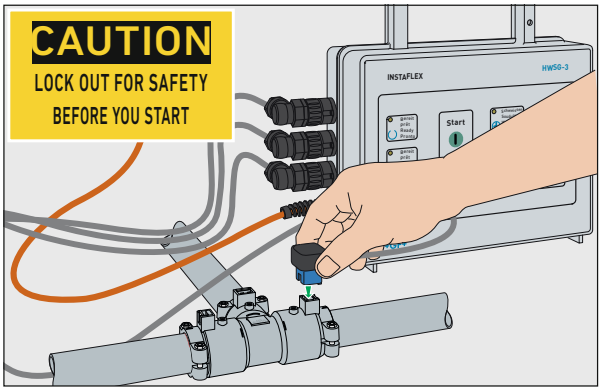
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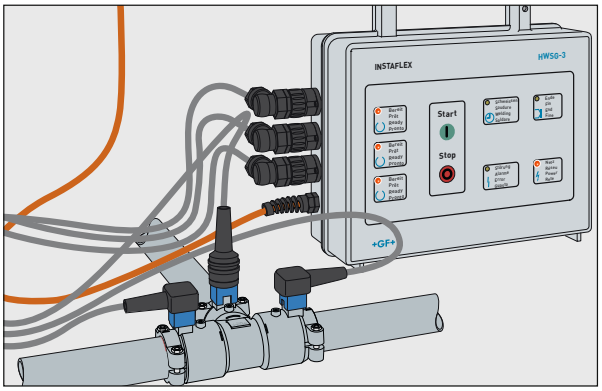
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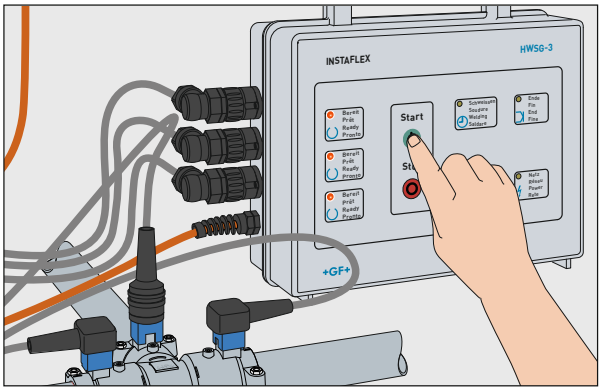
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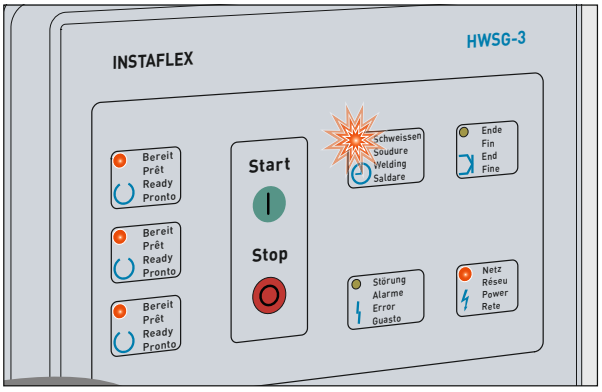
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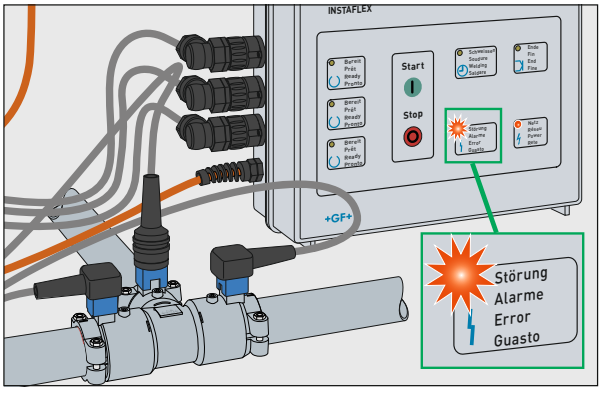
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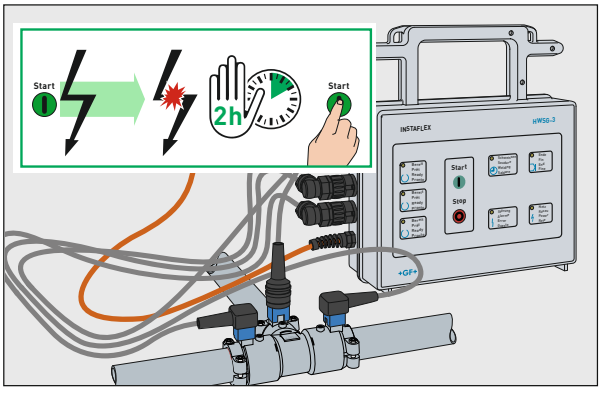
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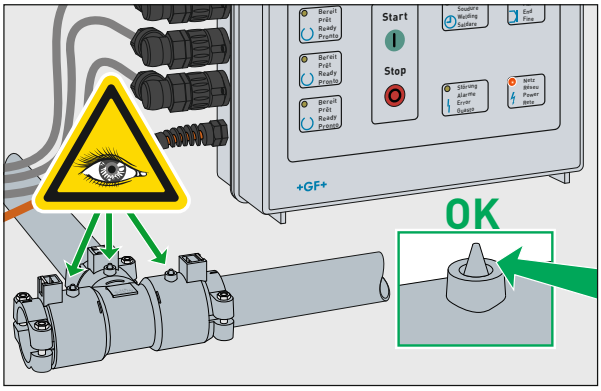
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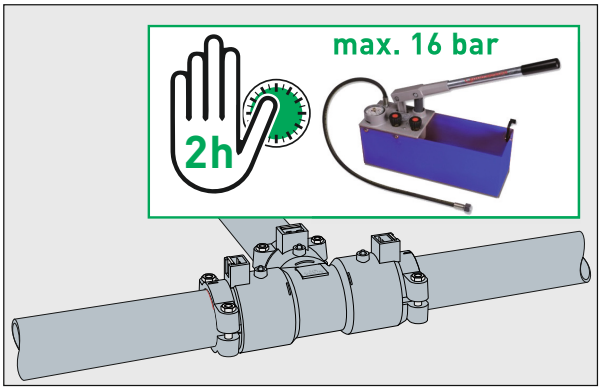
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14

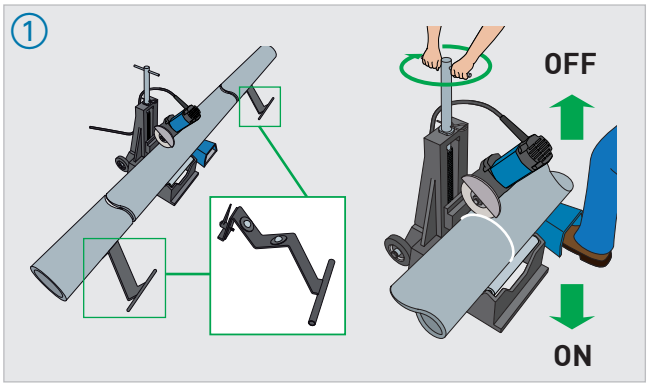


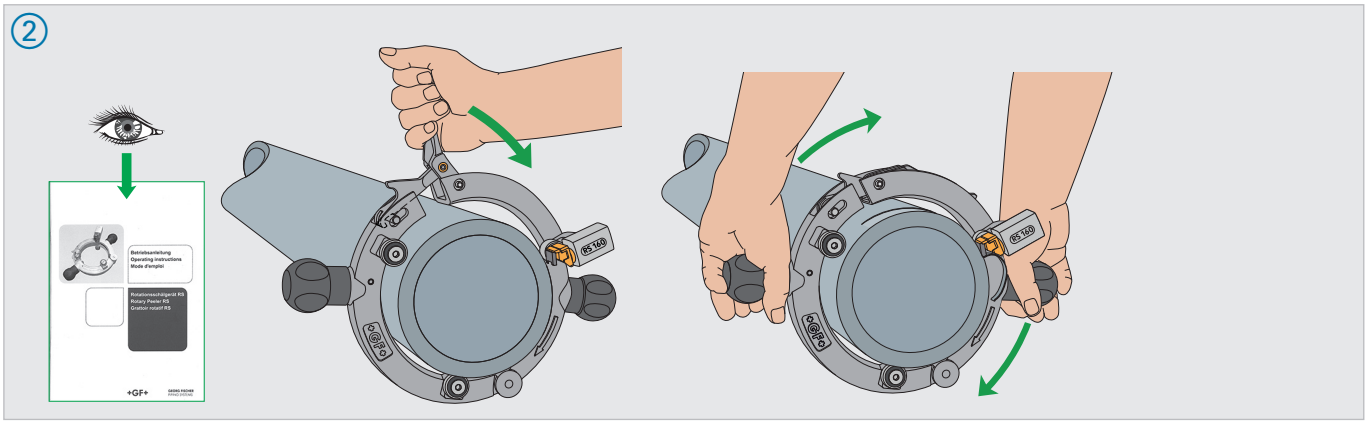
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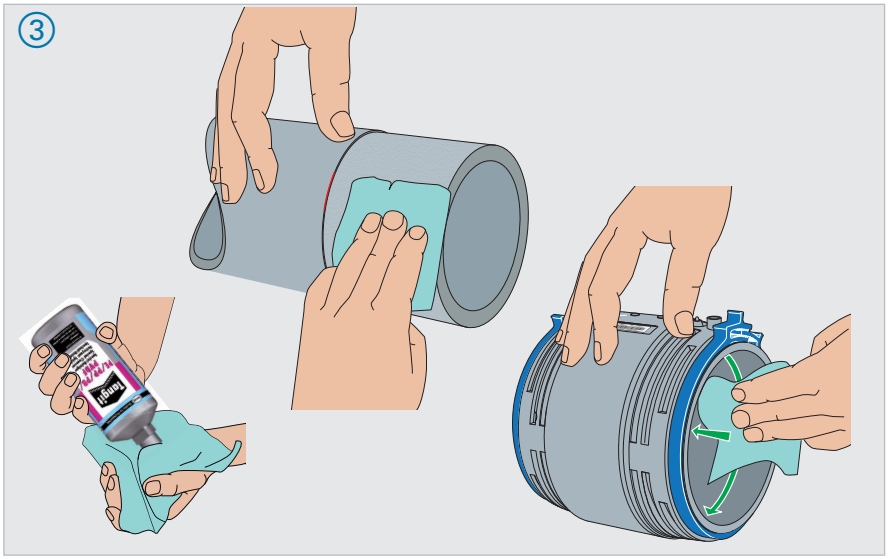


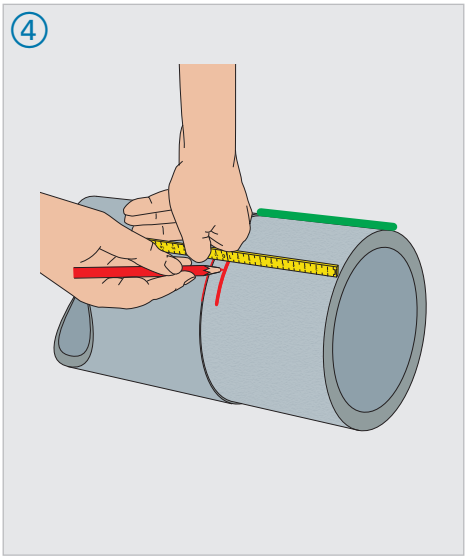
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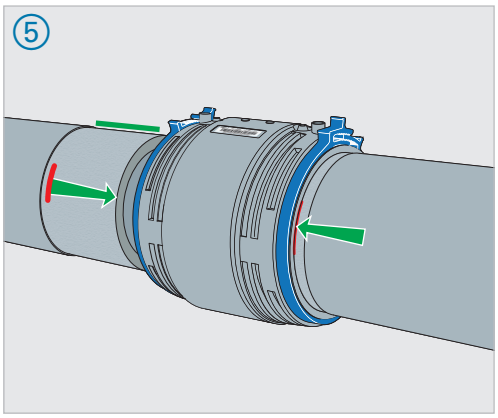
Electrofusion d125/d160/d225

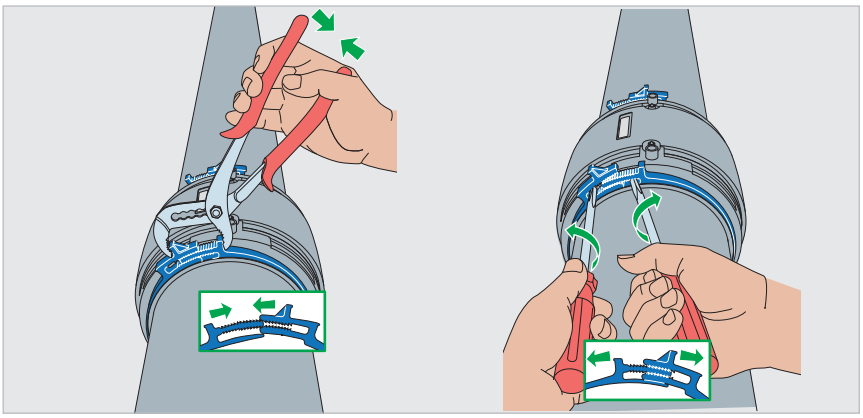


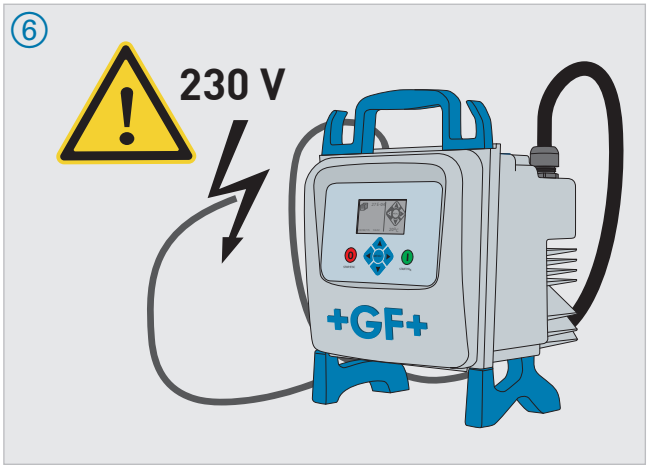


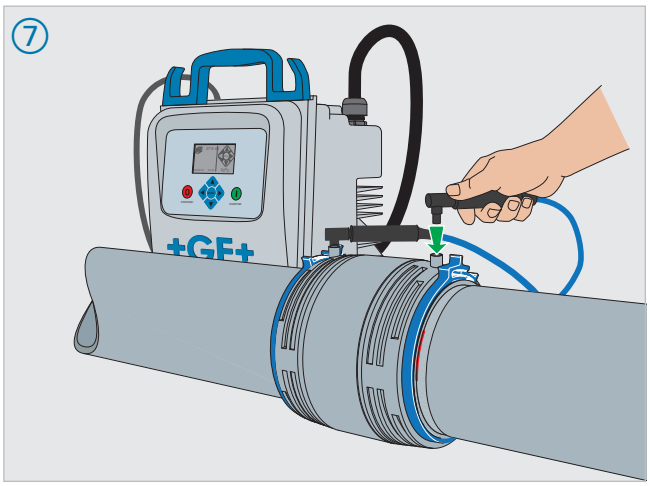


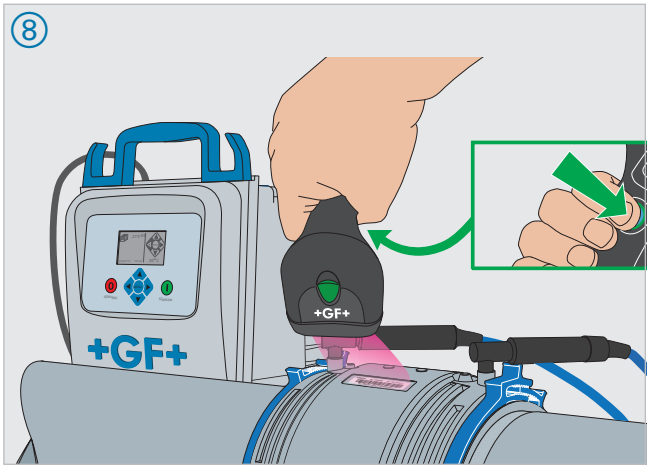


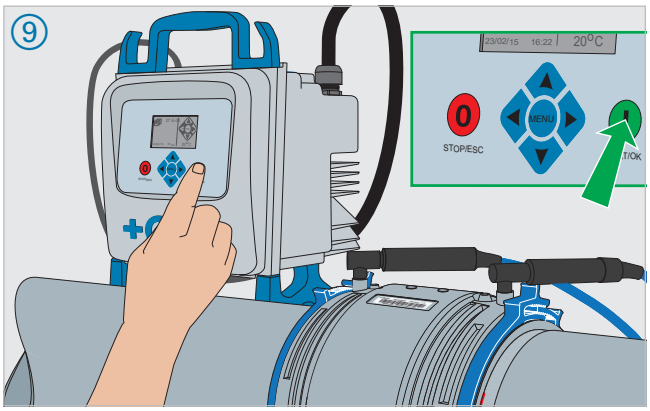


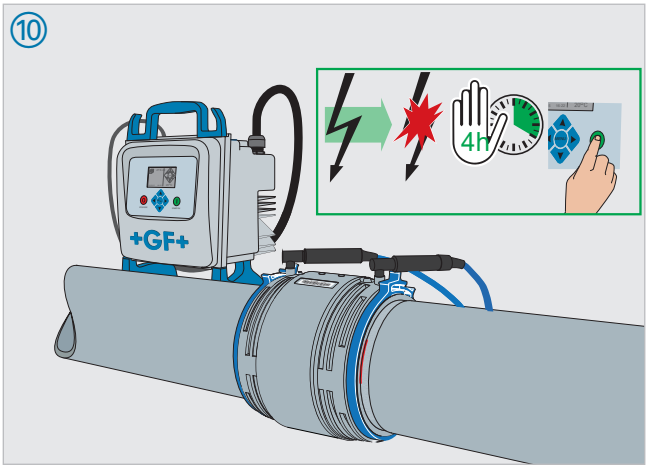


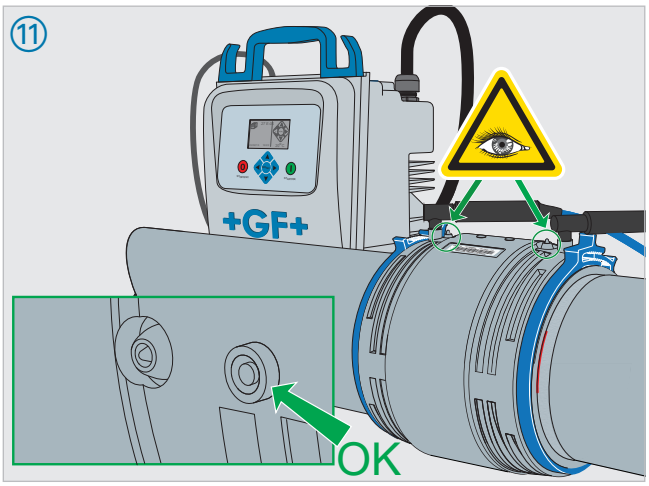

⑥
230 V
+GF+

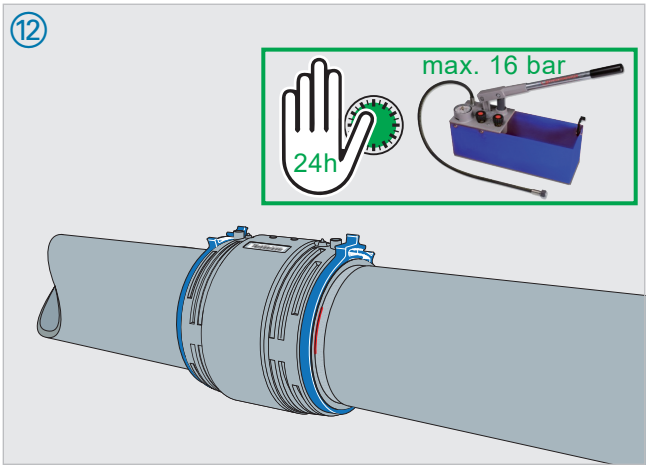

⑦
+GF+


⑧
+GF+
+GF+

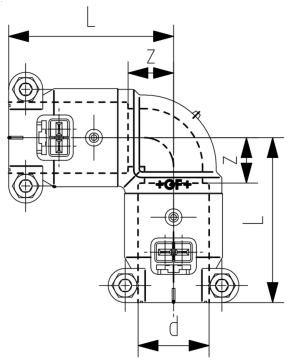

⑨
23/02/15 16:22 20°C
0
STOP/ESC
MENU
OK


⑩
4h
+GF+


⑪
+GF+
OK


⑫
max. 16 bar
24h



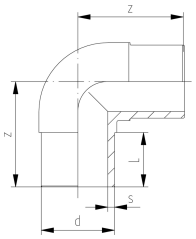


INSTAFLEX Elektro fusion Elbow 90° PB

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

d (mm)	Code	SP	Weight (kg)	L (mm)	z (mm)
16	**761 069 214**	1	0.023	47	10
20	**761 069 215**	1	0.027	54	14
25	**761 069 216**	1	0.039	58	16
32	**761 069 217**	1	0.079	60	18
40	**761 069 218**	1	0.128	69	22
50	**761 069 219**	1	0.206	78	29
63	**761 069 220**	1	0.328	86	36
75	**761 069 221**	1	0.515	112	45
90	**761 069 222**	1	0.811	127	54
110	**761 069 223**	1	1.330	146	66



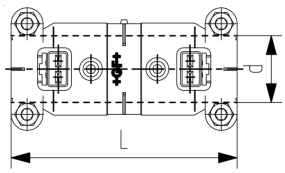


INSTAFLEX Butt fusion Elbow 90° PB

- Material: PB

d (mm)	Code	SP	Weight (kg)	L (mm)	z (mm)
125	**761 065 258**	1	1.615	93	182
160	**761 065 259**	1	3.077	104	213
225	**761 065 260**	1	7.795	122	270
315	**761 065 321**	1	20.990	152	522





INSTAFLEX Electro fusion coupler PB

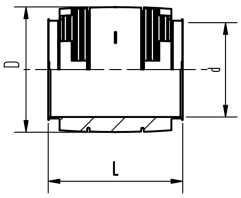
Suitable as sliding coupling

d (mm)	Code	SP	Weight (kg)	L (mm)
16	**761 069 200**	1	0.023	76
20	**761 069 201**	1	0.027	80
25	**761 069 202**	1	0.041	85
32	**761 069 203**	1	0.053	85
40	**761 069 204**	1	0.084	95
50	**761 069 205**	1	0.121	99
63	**761 069 206**	1	0.184	102
75	**761 069 265**	1	0.317	134
90	**761 069 266**	1	0.519	147
110	**761 069 267**	1	0.766	160



INSTAFLEX Electro fusion coupler PB

d (mm)	Code	SP	Weight (kg)	L (mm)
125	**761 069 555**	1	1.565	186
160	**761 069 556**	1	1.397	190
225	**761 069 557**	1	4.472	220



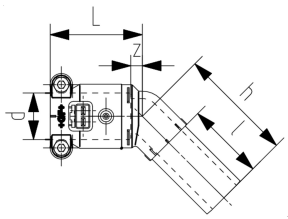


INSTAFLEX Electro fusion adaptor polybuten

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

d (mm)	Code	SP	Weight (kg)	L (mm)	h (mm)
16	**761 069 207**	1	0.026	60	23
20	**761 069 208**	1	0.017	61	22
25	**761 069 209**	1	0.026	67	25
32	**761 069 210**	1	0.037	71	29
40	**761 069 211**	1	0.060	79	32
50	**761 069 212**	1	0.095	85	36
63	**761 069 213**	1	0.151	94	43

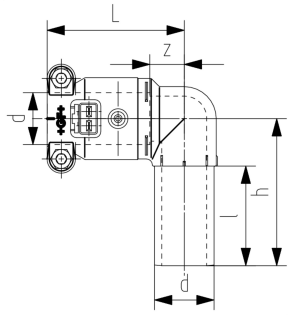




INSTAFLEX Electro fusion Elbow 45° PB
With socket-spigot

d (mm)	Code	SP	Weight (kg)	L (mm)	l (mm)	h (mm)	z (mm)
16	**761 069 447**	1	0.014	44	38	50	6
20	**761 069 448**	1	0.030	46	40	54	7
25	**761 069 449**	1	0.042	50	42	57	8
32	**761 069 450**	1	0.055	51	42	60	9
40	**761 069 451**	1	0.098	58	47	67	11
50	**761 069 452**	1	0.156	63	49	75	14
63	**761 069 453**	1	0.242	68	51	79	17

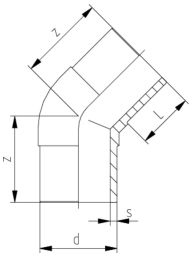




INSTAFLEX Elbow 90° PB
With socket-spigot

d (mm)	Code	SP	Weight (kg)	L (mm)	l (mm)	h (mm)	z (mm)
16	**761 069 434**	1	0.025	47	40	53	10
20	**761 069 435**	1	0.035	54	40	58	14
25	**761 069 436**	1	0.047	58	42	62	16
32	**761 069 437**	1	0.071	60	42	66	18
40	**761 069 438**	1	0.113	69	47	77	22
50	**761 069 439**	1	0.181	78	49	85	29
63	**761 069 440**	1	0.290	86	51	96	36



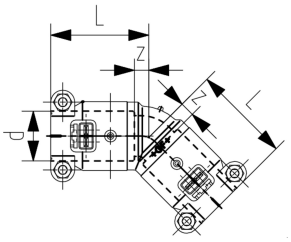


INSTAFLEX Butt Fusion Elbow 45° PB

- Material: PB

d (mm)	Code	SP	Weight (kg)	L (mm)	z (mm)
125	**761 065 261**	1	1.246	92	140
160	**761 065 262**	1	2.379	102	162
225	**761 065 263**	1	6.065	122	200
315	**761 065 325**	1	14.000	420	245

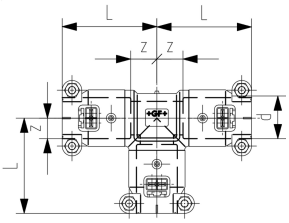




INSTAFLEX Electro fusion Elbow 45° PB

d (mm)	Code	SP	Weight (kg)	L (mm)	z (mm)
16	**761 069 227**	1	0.033	44	6
20	**761 069 228**	1	0.027	46	7
25	**761 069 229**	1	0.039	50	8
32	**761 069 230**	1	0.059	51	9
40	**761 069 231**	1	0.070	58	11
50	**761 069 232**	1	0.147	63	14
63	**761 069 233**	1	0.275	68	17
75	**761 069 234**	1	0.451	88	21
90	**761 069 235**	1	0.700	98	25
110	**761 069 236**	1	1.098	111	31

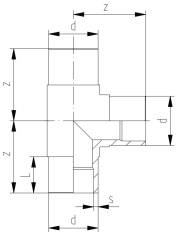




INSTAFLEX Electro fusion T-piece polybuten 90°

d (mm)	Code	SP	Weight (kg)	L (mm)	z (mm)
16	**761 069 237**	1	0.053	47	10
20	**761 069 238**	1	0.067	54	14
25	**761 069 239**	1	0.089	58	16
32	**761 069 240**	1	0.116	60	18
40	**761 069 241**	1	0.185	69	22
50	**761 069 242**	1	0.290	78	29
63	**761 069 243**	1	0.452	86	36
75	**761 069 244**	1	0.747	112	45
90	**761 069 245**	1	0.890	127	54
110	**761 069 246**	1	1.884	146	66



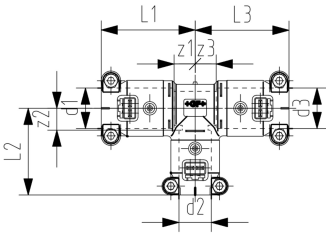


INSTAFLEX Tee 90° - equal PB

- Material: PB

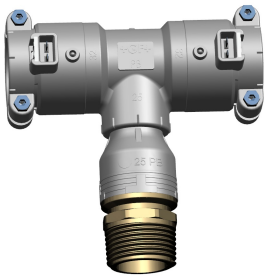
d (mm)	Code	SP	Weight (kg)	L (mm)	z (mm)
125	**761 065 255**	1	2.397	93	183
160	**761 065 256**	1	4.312	102	210
225	**761 065 257**	1	11.984	122	270
315	**761 065 320**	1	20.105	569	280

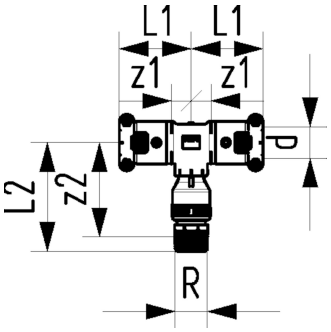




INSTAFLEX Tee 90° reducer PB

d1 (mm)	d2 (mm)	d3 (mm)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	L3 (mm)	z1 (mm)	z2 (mm)	z3 (mm)
20	16	16	**761 069 249**	1	0.058	54	47	47	14	10	10
20	16	20	**761 069 250**	1	0.041	54	49	54	14	11	14
25	16	25	**761 069 251**	1	0.082	58	54	58	16	16	16
25	20	20	**761 069 256**	1	0.079	58	54	54	16	14	14
25	20	25	**761 069 252**	1	0.079	58	54	58	16	14	16
25	25	20	**761 069 257**	1	0.081	58	58	54	16	16	14
32	20	32	**761 069 253**	1	0.088	60	58	60	18	18	18
32	25	25	**761 069 258**	1	0.098	60	58	58	18	16	16
32	25	32	**761 069 254**	1	0.095	60	58	60	18	16	18
40	20	40	**761 069 259**	1	0.157	69	63	69	22	23	22
40	25	40	**761 069 255**	1	0.170	69	63	69	22	21	22
40	32	40	**761 069 260**	1	0.168	69	63	69	22	21	22
50	25	50	**761 069 261**	1	0.246	78	72	78	29	30	29
50	32	50	**761 069 262**	1	0.260	78	72	78	29	30	29
63	25	63	**761 069 263**	1	0.360	86	81	86	36	39	36
63	40	63	**761 069 264**	1	0.384	86	85	86	36	38	36



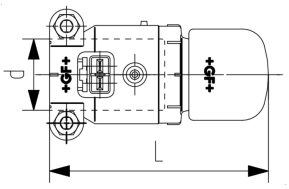


INSTAFLEX Adapter Tee PB/Brass
Electro fusion Tee transition to male thread

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

d (mm)	R (inch)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	z1 (mm)	z2 (mm)
25	¾	**761 069 738**	1	0.177	58	88	16	73
32	1	**761 069 739**	1	0.246	60	97	18	80

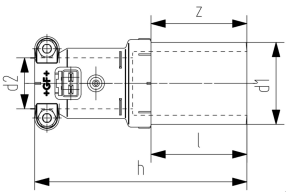




INSTAFLEX Cap PB

d (mm)	Code	SP	Weight (kg)	L (mm)
16	**761 069 270**	1	0.022	67
20	**761 069 271**	1	0.025	70
25	**761 069 272**	1	0.036	77
32	**761 069 273**	1	0.054	83
40	**761 069 274**	1	0.095	95
50	**761 069 275**	1	0.153	104
63	**761 069 276**	1	0.265	116



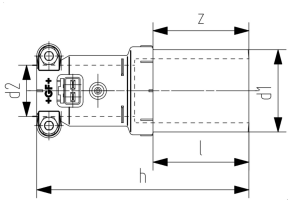


INSTAFLEX Electro fusion reducer polybutene

- Material: Polybutene (grey)

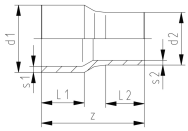
d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	l (mm)	h (mm)	z (mm)
20	16	**761 069 277**	1	0.023	40	83	45
25	16	**761 069 278**	1	0.026	42	83	46
25	20	**761 069 279**	1	0.026	42	86	47
32	16	**761 069 457**	1	0.033	42	86	48
32	20	**761 069 280**	1	0.030	42	84	45
32	25	**761 069 281**	1	0.038	42	89	47
40	20	**761 069 458**	1	0.055	47	102	62
40	25	**761 069 459**	1	0.060	47	104	62
40	32	**761 069 282**	1	0.060	47	95	53
50	20	**761 069 460**	1	0.070	49	102	62
50	25	**761 069 461**	1	0.075	49	104	62
50	32	**761 069 462**	1	0.075	49	95	53
50	40	**761 069 283**	1	0.091	49	103	56
63	20	**761 069 463**	1	0.096	51	102	62
63	25	**761 069 464**	1	0.109	51	104	62
63	32	**761 069 284**	1	0.101	51	95	53
63	40	**761 069 465**	1	0.121	51	103	56
63	50	**761 069 285**	1	0.141	51	106	57
75	63	**761 069 286**	1	0.232	67	129	78
90	63	**761 069 287**	1	0.289	74	128	77

table continued on the next page



d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	l (mm)	h (mm)	z (mm)
90	75	**761 069 288**	1	0.354	74	143	76
110	63	**761 069 289**	1	0.414	80	135	84
110	75	**761 069 290**	1	0.464	80	150	83
110	90	**761 069 291**	1	0.576	80	165	92



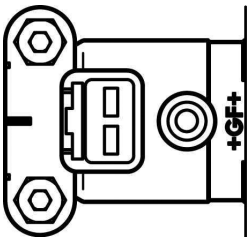


INSTAFLEX Reducer PB

- Material: PB

d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	z (mm)
125	110	**761 065 267**	1	0.729	92	85	215
160	125	**761 065 268**	1	1.263	102	92	245
225	160	**761 065 269**	1	2.800	122	102	280
315	225	**761 065 322**	1	7.933	154	125	377



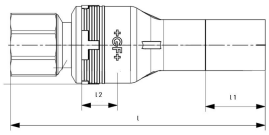


INSTAFLEX Bracket Clamp PB

* on request

	d (mm)	Code	SP	Weight (kg)
*	16	**761 069 490**	10	0.016
*	20	**761 069 491**	10	0.018
*	25	**761 069 492**	10	0.023
*	32	**761 069 493**	6	0.030
*	40	**761 069 494**	6	0.050
*	50	**761 069 495**	6	0.073
*	63	**761 069 496**	6	0.102
*	75	**761 069 497**	6	0.166
*	90	**761 069 498**	4	0.244
*	110	**761 069 499**	4	0.380



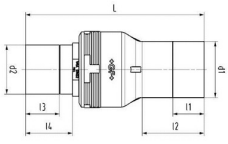


INSTAFLEX Transition PB/Stainless steel

- Material: V4A / 316L

d-d (inch/mm)	GF Code	SP	Weight (kg)	l (mm)	l1 (mm)	l2 (mm)
1/2 - 20	**761 069 774**	1	0.107	100	24	14
3/4 - 25	**761 069 775**	1	0.143	104	43	15
1 - 32	**761 069 776**	1	0.210	109	43	16

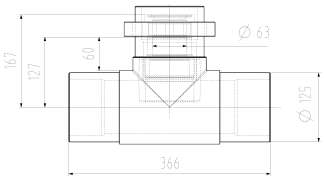




INSTAFLEX Transition PB/stainless steel With press end

- Material: V4A / 316L

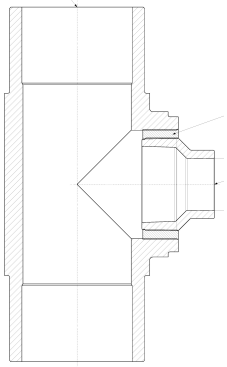
d1 (mm)	d2 (mm)	GF Code	SP	Weight (kg)	L (mm)	l1 (mm)	l2 (mm)	l3 (mm)	l4 (mm)
40	35	**761 069 784**	1	0.275	137	24	47.5	26	36
50	42	**761 069 785**	1	0.390	149.1	22	49.5	30	41
63	54	**761 069 786**	1	0.628	166.9	20.5	51	35	48



INSTAFLEX Tee 90° reducer PB
With flange

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

	d1 (mm)	d2 (mm)	d3 (mm)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)
*	125	63	125	**761 065 297**		2.900	167	366
*	125	75	125	**761 065 302**	1	3.100	173	366
*	160	110	160	**761 065 301**	0	0.001	180	420
*	160	125	160	**761 065 313**	0	5.784	340	420
*	160	75	160	**761 065 299**	1	4.900	208	420
*	160	90	160	**761 065 300**	0	0.001	216	420
*	125	110	125	**761 065 361**	0	2.900	204	366
*	110	63	110	**761 065 362**	0	2.900	176	420

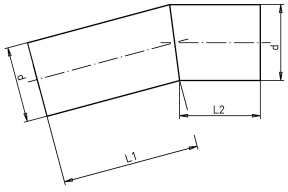


INSTAFLEX Tee 90° reducer PB

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

	d1 (mm)	d2 (mm)	d3 (mm)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)
*	125	63	125	**761 070 263**	0	0.001	90	336
*	160	63	160	**761 070 264**	1	0.001	120	420

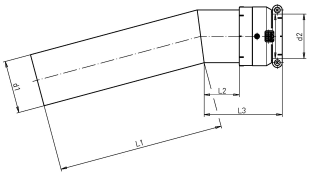




INSTAFLEX Elbow 15° PB
With short and long end

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

	d (mm)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)
*	63	**761 069 589**	1	0.306	180	65
*	75	**761 069 590**	1	0.576	236	80
*	90	**761 069 591**	1	0.824	265	85
*	110	**761 069 592**	1	1.340	292	100

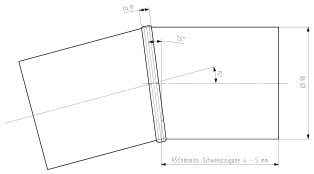


INSTAFLEX Elbow 15° PB
With short end

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

	d-d (mm)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	L3 (mm)
*	75 - 63	**761 069 599**	1	0.306	236	50	111
*	90 - 75	**761 069 600**	1	0.500	265	55	125
*	110 - 90	**761 069 601**	1	0.706	292	60	145



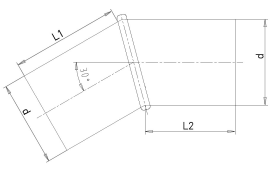


INSTAFLEX Elbow 15° PB
With two short ends

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

	d (mm)	Code	SP	Weight (kg)	L1 (mm)
*	90	**761 069 662**	1	0.405	95
*	110	**761 065 311**	1	0.647	100
*	125	**761 065 304**	1	0.905	110
*	160	**761 065 305**	1	1.590	115
*	225	**761 065 307**	1	6.348	130



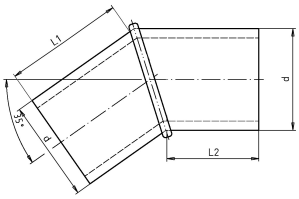


INSTAFLEX Elbow 30° PB
With short end

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

	d (mm)	Code	SP	Weight (kg)	L1 (mm)
	90	**761 069 663**	1	0.700	95
*	110	**761 065 312**		0.641	100
*	125	**761 065 308**	1	0.971	110
*	160	**761 065 309**	1	1.723	115
*	225	**761 065 310**	1	3.988	130





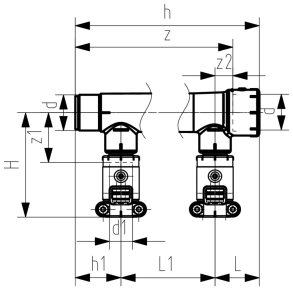
INSTAFLEX Elbow 35° PB
With short end

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

	d (mm)	Code	SP	Weight (kg)	L1 (mm)
*	110	**761 069 665**	1	1.500	100

Manifolds





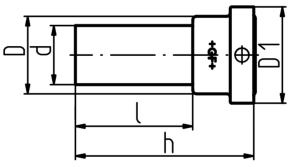
INSTAFLEX Manifold PB

Electro fusion connections

	d (mm)	d1 (mm)	Code	SP	Weight (kg)	L (mm)	L1 (mm)	H (mm)	h (mm)	h1 (mm)	z (mm)	z1 (mm)	z2 (mm)
single	25	16	**761 066 250**	1	0.040	31	0	60	63	32	45	36	13
single	25	20	**761 066 251**	1	0.050	39	0	64	78	39	60	35	21
double	25	16	**761 066 252**	1	0.074	31	45	60	108	32	90	36	13
triple	25	16	**761 066 253**	1	0.112	31	45	60	153	32	135	36	13
4 fold	25	16	**761 066 254**	1	0.144	31	45	60	198	32	180	36	13

Flange adapters



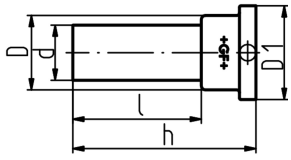


INSTAFLEX Flange adaptor with grove PB
With spigot for electrofusion fittings

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

	d (mm)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	l (mm)	h (mm)
*	16	**761 069 306**	5	0.011	22	29	45	68
*	20	**761 069 307**	1	0.018	27	34	47	70
*	25	**761 069 308**	1	0.023	33	41	50	76
*	32	**761 069 309**	1	0.039	41	50	50	78
*	40	**761 069 310**	1	0.061	50	61	56	88
*	50	**761 069 311**	1	0.096	61	73	58	93
*	63	**761 069 312**	1	0.160	76	90	60	98
*	75	**761 069 313**	1	0.343	90	106	118	158
*	90	**761 069 314**	1	0.515	109	125	125	172
*	110	**761 069 315**	1	0.840	131	150	131	186



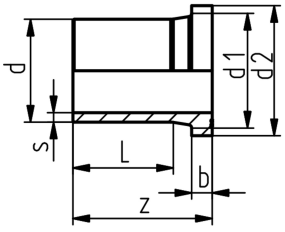


INSTAFLEX Flange adaptor flat PB
With spigot for electro fusion

Suitable for flange or union nut
* on request

	d (mm)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	l (mm)	h (mm)
*	20	**761 069 321**	1	0.017	27	34	45	67
*	25	**761 069 322**	1	0.021	33	41	50	73
*	32	**761 069 323**	1	0.034	41	50	50	75
*	40	**761 069 324**	1	0.066	50	61	56	83
*	50	**761 069 325**	1	0.091	61	73	58	88
	63	**761 069 326**	1	0.172	76	90	60	93
	75	**761 069 327**	1	0.311	90	106	118	153
	90	**761 069 328**	1	0.469	109	125	125	167
	110	**761 069 329**	1	0.770	131	150	131	180





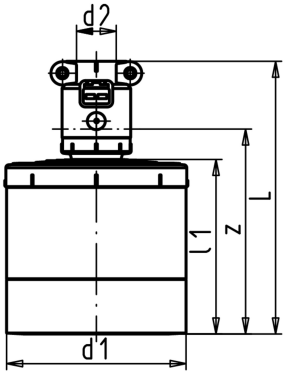
INSTAFLEX Flange adaptor flat PB

- Material: PB

d (mm)	Code	SP	Weight (kg)	d1 (mm)	d2 (mm)	L (mm)	b (mm)	z (mm)
125	**761 065 264**	1	0.870	132	162	123	25	170
160	**761 065 265**	1	1.700	176	218	147	25	200
225	**761 065 266**	1	3.003	236	274	122	32	200
315	**761 065 323**	1	5.227	336	371	170	36	291

Special reducers

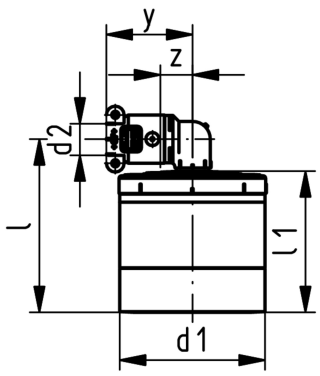




INSTAFLEX Special reducer PB
With adaptor for electro fusion

d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	l (mm)	l1 (mm)	z (mm)
75	16	**761 069 604**	1	0.212	134	88	97
75	20	**761 069 605**	1	0.216	134	88	95
75	25	**761 069 606**	1	0.221	137	88	95
75	32	**761 069 607**	1	0.237	139	88	97
75	40	**761 069 608**	1	0.254	145	88	98
75	50	**761 069 609**	1	0.270	148	88	99
90	16	**761 069 610**	1	0.254	133	87	96
90	20	**761 069 611**	1	0.265	133	87	94
90	25	**761 069 612**	1	0.267	136	87	94
90	32	**761 069 613**	1	0.277	138	87	96
90	40	**761 069 614**	1	0.297	144	87	97
90	50	**761 069 615**	1	0.322	147	87	98
110	16	**761 069 518**	1	0.405	140	94	103
110	20	**761 069 519**	1	0.405	140	94	101
110	25	**761 069 520**	1	0.414	143	94	101
110	32	**761 069 521**	1	0.433	145	94	103
110	40	**761 069 522**	1	0.461	151	94	104
110	50	**761 069 523**	1	0.469	154	94	105



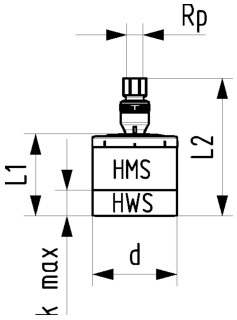


INSTAFLEX Special reducer PB
With adaptor for electro fusion / With transition on elbow

* additional diameter on request

	d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	l (mm)	l1 (mm)	z (mm)	y (mm)
*	75	20	**761 069 619**	1	0.228	109	88	14	54
*	75	25	**761 069 524**	1	0.235	111	88	16	58
*	75	32	**761 069 525**	1	0.249	115	88	18	60
*	75	40	**761 069 526**	1	0.300	121	88	22	96
*	75	50	**761 069 527**	1	0.326	127	88	29	78
*	90	20	**761 069 620**	1	0.273	108	87	14	54
*	90	25	**761 069 528**	1	0.283	110	87	16	58
*	90	32	**761 069 529**	1	0.300	114	87	18	60
*	90	40	**761 069 530**	1	0.350	120	87	22	69
*	90	50	**761 069 531**	1	0.415	126	87	29	78
*	110	20	**761 069 621**	1	0.423	115	94	14	54
*	110	25	**761 069 532**	1	0.435	117	94	16	58
*	110	32	**761 069 533**	1	0.453	121	94	18	60
*	110	40	**761 069 534**	1	0.500	127	94	22	69
*	110	50	**761 069 535**	1	0.565	183	94	29	78



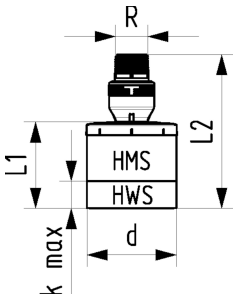


INSTAFLEX Special reducer PB
With transition to female thread

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

d (mm)	Rp (inch)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	k max. (mm)
75	½	**761 069 749**	1	0.291	88	148	26
75	¾	**761 069 750**	1	0.339	88	149	26
75	1	**761 069 751**	1	0.414	88	154	26
90	½	**761 069 752**	1	0.344	87	147	27
90	¾	**761 069 753**	1	0.392	87	148	27
90	1	**761 069 754**	1	0.467	87	153	27
110	½	**761 069 755**	1	0.486	94	154	28
110	¾	**761 069 756**	1	0.534	94	155	28
110	1	**761 069 757**	1	0.609	94	160	28



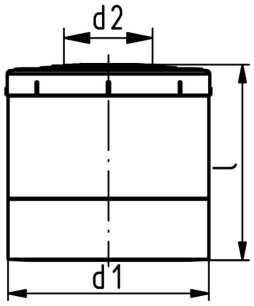


INSTAFLEX Special reducer PB
With transition to male thread

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

d (mm)	R (inch)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	k max. (mm)
75	½	**761 069 740**	1	0.285	88	147	26
75	¾	**761 069 741**	1	0.316	88	150	26
75	1	**761 069 742**	1	0.393	88	156	26
90	½	**761 069 743**	1	0.338	87	146	27
90	¾	**761 069 744**	1	0.369	87	149	27
90	1	**761 069 745**	1	0.446	87	155	27
110	½	**761 069 746**	1	0.480	94	153	28
110	¾	**761 069 747**	1	0.511	94	156	28
110	1	**761 069 748**	1	0.588	94	156	28



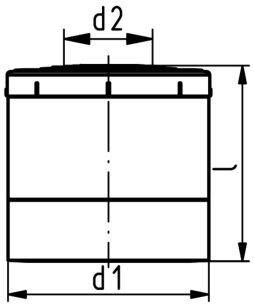


INSTAFLEX Special reducer PB

Not predrilled
Not suitable as end cap

d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	l (mm)
75	16 - 50	**761 069 454**	1	0.187	88
90	16 - 50	**761 069 455**	1	0.240	87
110	16 - 50	**761 069 456**	1	0.382	94

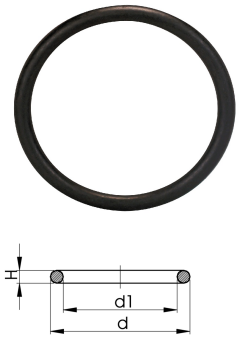




INSTAFLEX Special reducer PB Predrilled

Drilled hole d16 to d50
* on request

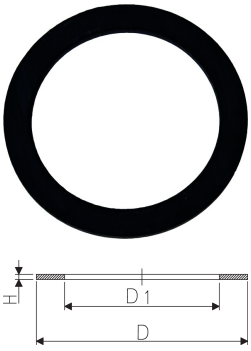
	d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	l (mm)
*	75	16	**761 069 500**	1	0.193	88
*	75	20	**761 069 501**	1	0.214	88
*	75	25	**761 069 502**	1	0.200	88
*	75	32	**761 069 503**	1	0.182	88
*	75	40	**761 069 504**	1	0.175	88
*	75	50	**761 069 505**	1	0.161	88
*	90	16	**761 069 506**	1	0.254	87
*	90	20	**761 069 507**	1	0.242	87
*	90	25	**761 069 508**	1	0.240	87
*	90	32	**761 069 509**	1	0.236	87
*	90	40	**761 069 510**	1	0.226	87
*	90	50	**761 069 511**	1	0.213	87
*	110	16	**761 069 512**	1	0.400	94
*	110	20	**761 069 513**	1	0.387	94
*	110	25	**761 069 514**	1	0.373	94
*	110	32	**761 069 515**	1	0.376	94
*	110	40	**761 069 516**	1	0.372	94
*	110	50	**761 069 517**	1	0.357	94



INSTAFLEX O-ring

Quality suitable for potable water

d (mm)	Code	SP	Weight (kg)	d1 (mm)	D (mm)	H (mm)
16	**761 066 558**	0	0.002	19	26	4
20	**761 066 124**	0	0.002	23	31	4
25	**761 066 125**	0	0.001	28	35	4
32	**761 066 126**	0	0.001	36	43	4
40	**761 066 127**		0.004	44	55	5
50	**761 066 128**	0	0.001	53	64	5
63	**761 066 129**	0	0.002	69	80	5
75	**761 070 036**		0.007	82	93	5
90	**761 070 037**		0.008	101	112	5
110	**761 070 038**		0.016	120	134	7



Flat gasket
For tank adaptors

Model:

- Hardness approx. 65° Shore
- For adaptor unions

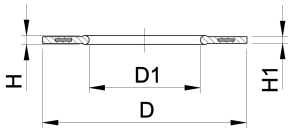
Size (inch)	D (mm)	D1 (mm)	H (mm)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
¼	20	13	2	**748 400 004**	1	0.002			
⅜	24	17	2	**748 400 005**	1	0.002	**749 400 005**	1	0.020
½	30	21	3	**748 400 006**	1	0.002	**749 400 006**	1	0.003
¾	38	27	3	**748 400 007**	1	0.003	**749 400 007**	1	0.004
1	44	32	3	**748 400 008**	1	0.010	**749 400 008**	1	0.002
1 ¼	55	42	3	**748 400 009**	1	0.007	**749 400 009**	1	0.003
1 ½	62	46	3	**748 400 010**	1	0.004	**749 400 010**	1	0.007
2	78	60	3	**748 400 011**	1	0.005	**749 400 011**	1	0.006
2 ½	97	75	3	**748 400 012**	1	0.010	**749 400 012**	1	0.009
3	109	88	3	**748 400 013**	1	0.011	**749 400 013**	1	0.011



INSTAFLEX Bach-up ring

d (mm)	di (mm)	Code	SP	Weight (kg)
125	102.2	**761 065 283**	1	0.300





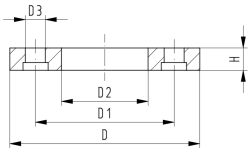
Profile flange gasket EPDM/FKM
metric
For flange adaptors without chamfer

Model:

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

d (mm)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)	H1 (mm)
20	15	16	**748 440 706**	0	0.009	**749 440 706**	0.013	51	20	4	3
25	20	16	**748 440 707**	0	0.015	**749 440 707**	0.014	61	22	4	3
32	25	16	**748 440 708**	0	0.013	**749 440 708**	0.019	71	28	4	3
40	32	16	**748 440 709**	0	0.019	**749 440 709**	0.026	82	40	4	3
50	40	16	**748 440 710**	0	0.029	**749 440 710**	0.039	92	46	4	3
63	50	16	**748 440 711**	0	0.041	**749 440 711**	0.050	107	58	5	4
75	65	16	**748 440 712**	0	0.053	**749 440 712**	0.082	127	69	5	4
90	80	16	**748 440 713**	20	0.064	**749 440 713**	0.083	142	84	5	4





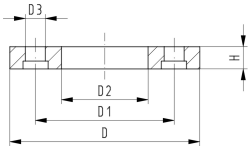
INSTAFLEX Backing flanges

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

	d (mm)	Code	SP	Weight (kg)
*	20	**761 065 270**	2	0.378
*	25	**761 065 271**	2	0.463
	32	**761 065 272**	2	0.412
	40	**761 065 273**	2	0.551
	50	**761 065 274**	2	0.747
	63	**761 065 275**	2	0.842
	75	**761 065 276**	2	1.131
	90	**761 065 277**	2	1.092
	110	**761 065 278**	2	1.465

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





INSTAFLEX Backing flanges

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

d (mm)	Code	SP	Weight (kg)
125	**761 065 279**	2	1.284
160	**761 065 280**	2	2.406
225	**761 065 281**	2	3.600

d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	AL	Screws	Tightening torque (mm)
125	226	180	135	18	23	8	M16 x 130	50
160	296	240	178	22	28	8	M20 x 140	60
225	350	295	238	22	31	8	M20 x 160	75

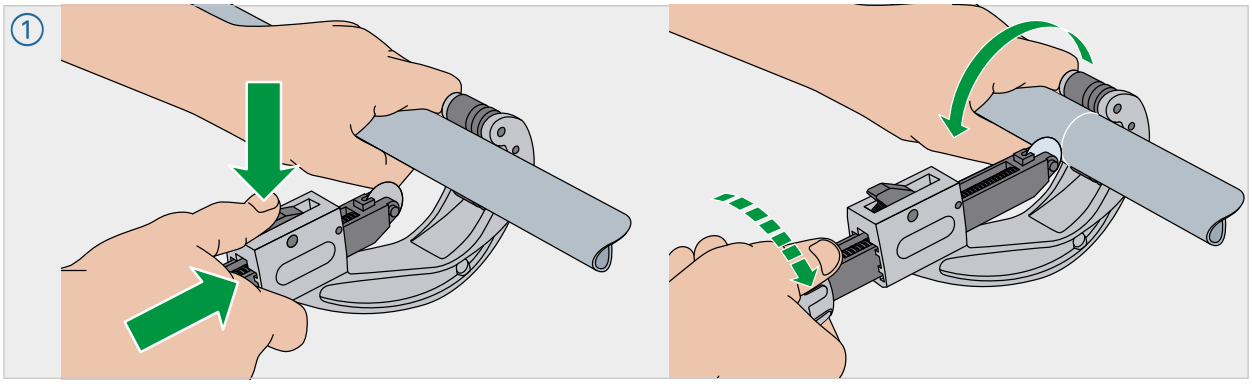
INSTAFLEX

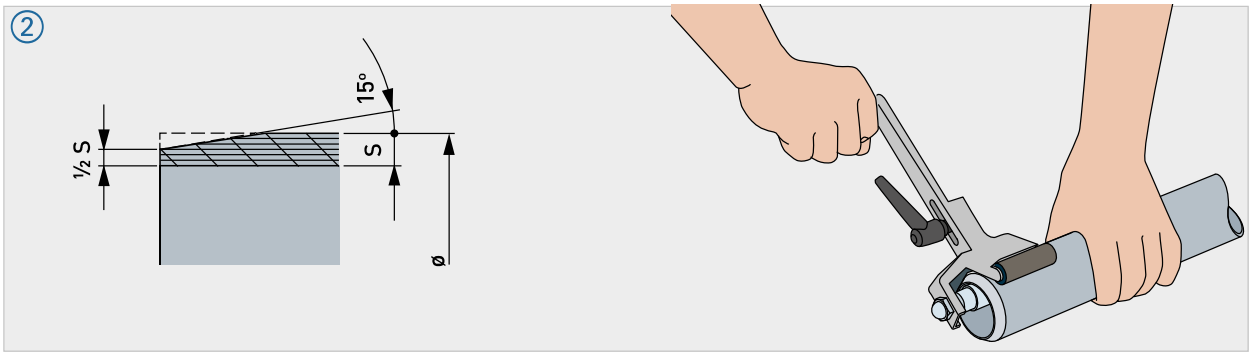
Socket fusion jointing HMS

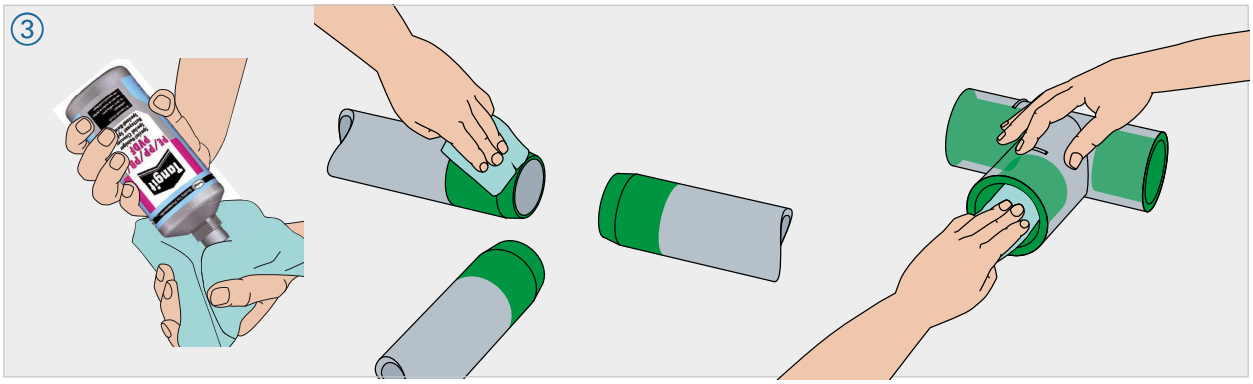


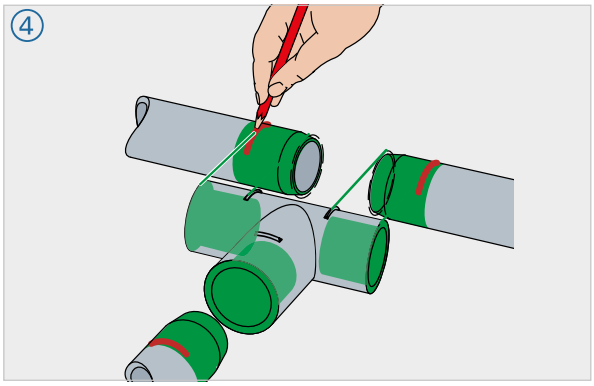
Socket fusion jointing - HMS		Page
	Fittings	69
	Special reducers	74
	Weld-in saddles	77
	Flange connections	79

Socket fusion welding – Preparing the pipes (d16 – d110)



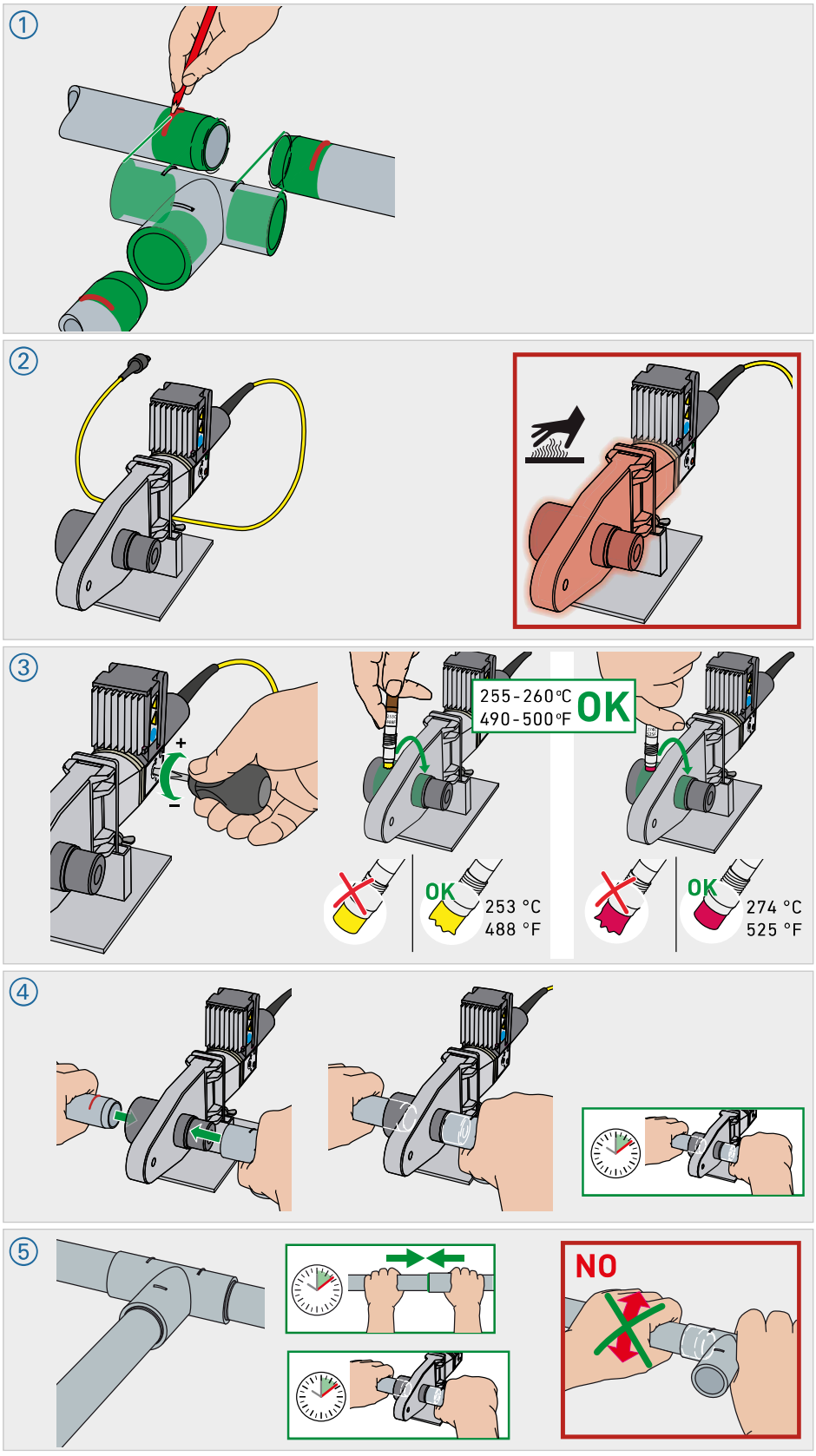




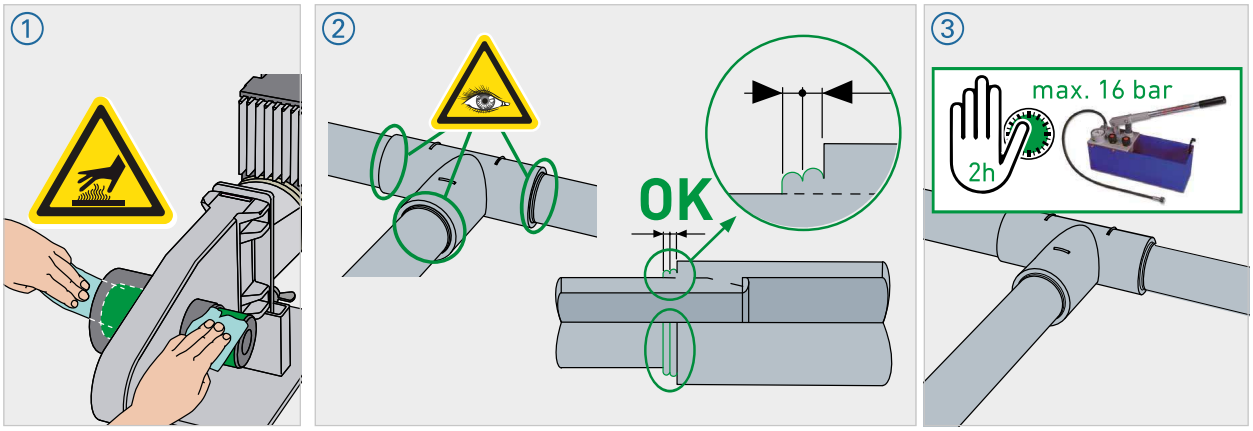


V

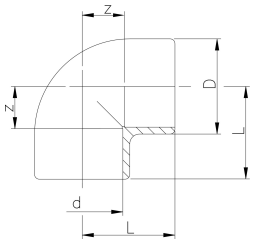
Socket fusion welding – Welding pipes (d16 – d63) with the heating element



Socket fusion welding – After the welding process



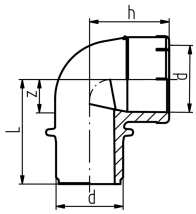




INSTAFLEX Elbow 90° PB

d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)
16	**761 066 600**	10	0.014	22	25	10
20	**761 066 601**	10	0.015	26	28	13
25	**761 066 602**	10	0.020	32	32	14
32	**761 066 603**	10	0.035	40	38	18
40	**761 066 604**	5	0.080	51	44	22
50	**761 066 605**	5	0.116	64	51	26
63	**761 066 606**	2	0.217	81	62	34
75	**761 066 607**	2	0.303	91	75	44
90	**761 066 608**	2	0.466	108	88	52
110	**761 066 609**	2	0.856	132	105	63

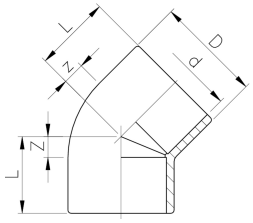




INSTAFLEX Elbow 90° PB
With socket-spigot

d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	h (mm)	z (mm)
16	**761 066 900**	10	0.009	22	34	25	10
20	**761 066 901**	10	0.012	26	36	28	13
25	**761 066 902**	10	0.021	32	44	32	14
32	**761 066 903**	10	0.037	40	50	38	18
40	**761 066 904**	5	0.067	51	58	44	22
50	**761 066 905**	5	0.122	64	70	51	26
63	**761 066 906**	2	0.233	81	82	62	34

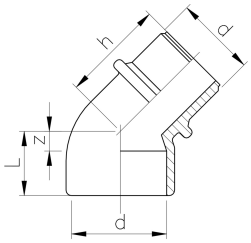




INSTAFLEX Elbow 45° PB

d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)
16	**761 066 610**	10	0.080	22	21	6
20	**761 066 611**	10	0.016	26	22	7
25	**761 066 612**	10	0.026	32	25	7
32	**761 066 613**	10	0.030	40	30	10
40	**761 066 614**	5	0.064	51	34	12
50	**761 066 615**	5	0.093	64	39	14
63	**761 066 616**	2	0.145	81	45	17
75	**761 066 617**	2	0.223	92	51	20
90	**761 066 618**	2	0.337	109	58	22
110	**761 066 619**	2	0.616	134	68	26

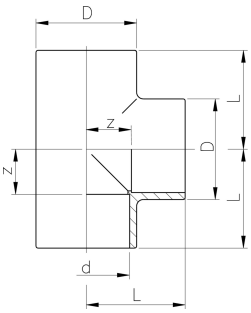




INSTAFLEX Elbow 45° PB
With socket-spigot

d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	h (mm)	z (mm)
16	**761 066 907**	10	0.008	22	21	29	6
20	**761 066 908**	10	0.011	26	22	30	7
25	**761 066 909**	10	0.017	32	25	35	7
32	**761 066 910**	10	0.032	40	30	40	10
40	**761 066 911**	5	0.284	51	34	46	12
50	**761 066 912**	5	0.101	64	39	53	14
63	**761 066 913**	2	0.258	81	45	62	17

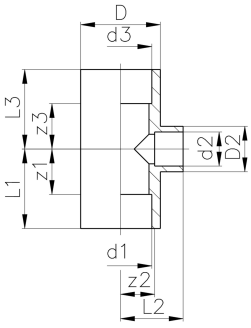




INSTAFLEX Tee 90° equal PB

d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)
16	**761 066 620**	10	0.017	22	25	10
20	**761 066 621**	10	0.025	26	28	13
25	**761 066 622**	10	0.036	32	32	14
32	**761 066 623**	10	0.045	40	38	18
40	**761 066 624**	5	0.105	51	44	22
50	**761 066 625**	5	0.147	64	51	26
63	**761 066 626**	2	0.315	81	62	34
75	**761 066 627**	2	0.375	91	75	44
90	**761 066 628**	2	0.694	112	88	52
110	**761 066 629**	2	1.120	132	105	63



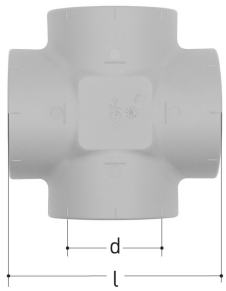


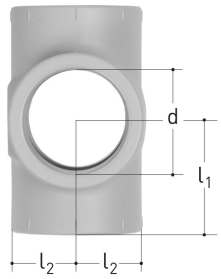
INSTAFLEX Tee 90° reduced PB

d1 (mm)	d2 (mm)	d3 (mm)	Code	SP	Weight (kg)	D (mm)	D2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	z1 (mm)	z2 (mm)	z3 (mm)
20	16	20	**761 066 914**	10	0.015	26	22	28	28	28	13	13	13
20	16	16	**761 066 915**	10	0.016	26	22	28	28	28	13	13	13
20	20	16	**761 066 916**	10	0.017	26	26	28	28	28	13	13	13
25	16	25	**761 066 917**	10	0.025	32	26	32	32	32	14	17	14
25	20	25	**761 066 918**	10	0.025	32	26	32	32	32	14	17	14
25	20	20	**761 066 919**	10	0.026	32	26	32	32	32	14	17	17
25	25	20	**761 066 920**	10	0.027	32	32	32	32	32	14	14	17
32	16	32	**761 066 921**	10	0.041	40	26	38	38	38	18	23	18
32	20	32	**761 066 922**	5	0.284	40	26	38	38	38	18	23	18
32	25	32	**761 066 923**	10	0.036	40	32	38	38	38	18	20	18
40	16	40	**761 066 295**	5	0.083	51	34	44	44	44	22	29	22
40	25	40	**761 066 924**	5	0.077	51	34	44	44	44	22	26	22
40	32	40	**761 068 049**	5	0.076	51	40	44	44	44	22	24	22
50	16	50	**761 066 309**	5	0.135	64	34	51	51	51	26	36	26
50	25	50	**761 066 925**	5	0.131	64	34	51	51	51	26	33	26
50	32	50	**761 068 050**	5	0.133	64	40	51	51	51	26	31	26
63	16	63	**761 066 310**	2	0.257	81	35	62	62	62	34	47	34
63	25	63	**761 066 926**	5	0.252	81	35	62	62	62	34	44	34
63	32	63	**761 068 051**	5	0.255	81	40	62	62	62	34	42	34

INSTAFLEX Cross PB
PN16

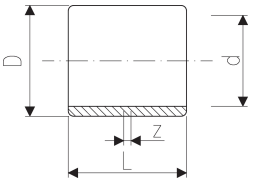






d (mm)	PN (bar)	d	Code	SP	Weight (kg)	l (mm)	l1 (mm)	l2 (mm)
51	16	40	**761 068 066**	5	0.098	88	44	26
64	16	50	**761 068 067**	5	0.169	102	51	32
81	16	63	**761 068 068**	2	0.321	124	62	41

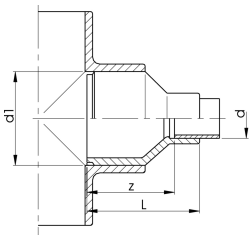




INSTAFLEX Socket PB

d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)
16	**761 066 660**	10	0.045	22	33	3
20	**761 066 661**	10	0.014	26	33	3
25	**761 066 662**	10	0.020	32	39	3
32	**761 066 663**	10	0.033	40	43	3
40	**761 066 664**	10	0.048	51	48	4
50	**761 066 665**	10	0.068	64	54	4
63	**761 066 666**	2	0.120	81	60	4
75	**761 066 667**	2	0.153	91	69	7
90	**761 066 668**	2	0.236	110	80	8
110	**761 066 669**	2	0.417	133	94	10

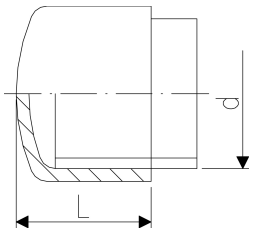




INSTAFLEX Reducing bush PB

d1 (mm)	d (mm)	Code	SP	Weight (kg)	L (mm)	z (mm)
20	16	**761 066 670**	10	0.005	30	15
25	16	**761 066 671**	10	0.010	33	18
25	20	**761 066 672**	10	0.015	33	18
32	20	**761 066 674**	10	0.018	40	25
32	25	**761 066 675**	10	0.022	40	22
40	20	**761 066 677**	10	0.024	42	27
40	25	**761 066 678**	10	0.028	42	24
40	32	**761 066 679**	10	0.034	42	22
50	20	**761 066 681**	10	0.035	55	40
50	25	**761 066 682**	10	0.035	55	37
50	32	**761 066 683**	10	0.042	55	35
50	40	**761 066 684**	10	0.050	55	33
63	20	**761 066 686**	5	0.055	58	43
63	25	**761 066 687**	5	0.060	58	40
63	32	**761 066 688**	10	0.066	58	38
63	40	**761 066 689**	5	0.074	58	36
63	50	**761 066 690**	5	0.079	58	33
75	63	**761 066 742**	2	0.115	67	39
90	63	**761 066 746**	2	0.150	74	46
90	75	**761 066 745**	2	0.160	74	43
110	63	**761 066 747**	2	0.229	86	58
110	75	**761 066 749**	2	0.234	86	55
110	90	**761 066 748**	2	0.270	86	50

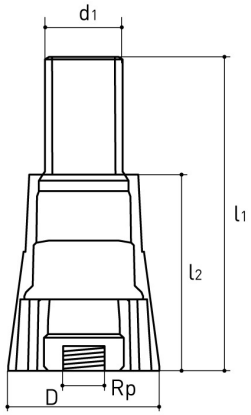


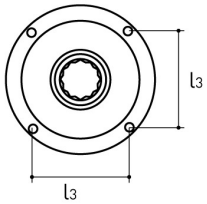


INSTAFLEX Cap PB

d (mm)	Code	SP	Weight (kg)	L (mm)
16	**761 066 650**	10	0.006	22
20	**761 066 651**	10	0.010	24
25	**761 066 652**	10	0.014	28
32	**761 066 653**	10	0.022	32
40	**761 066 654**	10	0.024	38
50	**761 066 655**	10	0.050	44
63	**761 066 656**	5	0.079	50







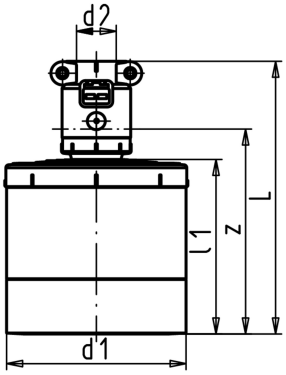
INSTAFLEX Connection box X

The connection box can be used for embedded sprinkler applications

Rp (inch)	d1 (mm)	Code	SP	Weight (kg)	d (mm)	l1 (mm)	l2 (mm)	l3 (mm)
½	32	**761 068 053**	10	0.460	63	131	82	40
1	32	**761 068 052**	10	0.366	63	131	82	40

Special reducers

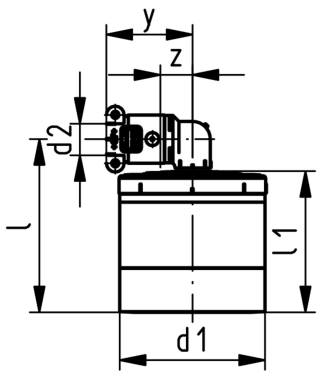




INSTAFLEX Special reducer PB
With adaptor for electro fusion

d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	l (mm)	l1 (mm)	z (mm)
75	16	**761 069 604**	1	0.212	134	88	97
75	20	**761 069 605**	1	0.216	134	88	95
75	25	**761 069 606**	1	0.221	137	88	95
75	32	**761 069 607**	1	0.237	139	88	97
75	40	**761 069 608**	1	0.254	145	88	98
75	50	**761 069 609**	1	0.270	148	88	99
90	16	**761 069 610**	1	0.254	133	87	96
90	20	**761 069 611**	1	0.265	133	87	94
90	25	**761 069 612**	1	0.267	136	87	94
90	32	**761 069 613**	1	0.277	138	87	96
90	40	**761 069 614**	1	0.297	144	87	97
90	50	**761 069 615**	1	0.322	147	87	98
110	16	**761 069 518**	1	0.405	140	94	103
110	20	**761 069 519**	1	0.405	140	94	101
110	25	**761 069 520**	1	0.414	143	94	101
110	32	**761 069 521**	1	0.433	145	94	103
110	40	**761 069 522**	1	0.461	151	94	104
110	50	**761 069 523**	1	0.469	154	94	105



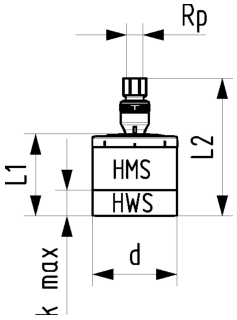


INSTAFLEX Special reducer PB
With adaptor for electro fusion / With transition on elbow

* additional diameter on request

	d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	l (mm)	l1 (mm)	z (mm)	y (mm)
*	75	20	**761 069 619**	1	0.228	109	88	14	54
*	75	25	**761 069 524**	1	0.235	111	88	16	58
*	75	32	**761 069 525**	1	0.249	115	88	18	60
*	75	40	**761 069 526**	1	0.300	121	88	22	96
*	75	50	**761 069 527**	1	0.326	127	88	29	78
*	90	20	**761 069 620**	1	0.273	108	87	14	54
*	90	25	**761 069 528**	1	0.283	110	87	16	58
*	90	32	**761 069 529**	1	0.300	114	87	18	60
*	90	40	**761 069 530**	1	0.350	120	87	22	69
*	90	50	**761 069 531**	1	0.415	126	87	29	78
*	110	20	**761 069 621**	1	0.423	115	94	14	54
*	110	25	**761 069 532**	1	0.435	117	94	16	58
*	110	32	**761 069 533**	1	0.453	121	94	18	60
*	110	40	**761 069 534**	1	0.500	127	94	22	69
*	110	50	**761 069 535**	1	0.565	183	94	29	78



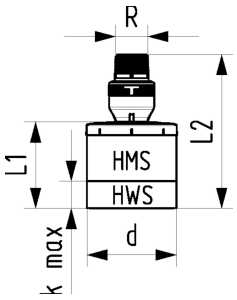


INSTAFLEX Special reducer PB
With transition to female thread

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

d (mm)	Rp (inch)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	k max. (mm)
75	½	**761 069 749**	1	0.291	88	148	26
75	¾	**761 069 750**	1	0.339	88	149	26
75	1	**761 069 751**	1	0.414	88	154	26
90	½	**761 069 752**	1	0.344	87	147	27
90	¾	**761 069 753**	1	0.392	87	148	27
90	1	**761 069 754**	1	0.467	87	153	27
110	½	**761 069 755**	1	0.486	94	154	28
110	¾	**761 069 756**	1	0.534	94	155	28
110	1	**761 069 757**	1	0.609	94	160	28





INSTAFLEX Special reducer PB
With transition to male thread

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

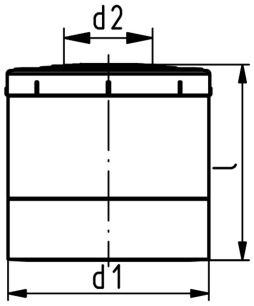
d (mm)	R (inch)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	k max. (mm)
75	½	**761 069 740**	1	0.285	88	147	26
75	¾	**761 069 741**	1	0.316	88	150	26
75	1	**761 069 742**	1	0.393	88	156	26
90	½	**761 069 743**	1	0.338	87	146	27
90	¾	**761 069 744**	1	0.369	87	149	27
90	1	**761 069 745**	1	0.446	87	155	27
110	½	**761 069 746**	1	0.480	94	153	28
110	¾	**761 069 747**	1	0.511	94	156	28
110	1	**761 069 748**	1	0.588	94	156	28



INSTAFLEX Special reducer PB

Not predrilled
Not suitable as end cap

d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	l (mm)
75	16 - 50	**761 069 454**	1	0.187	88
90	16 - 50	**761 069 455**	1	0.240	87
110	16 - 50	**761 069 456**	1	0.382	94

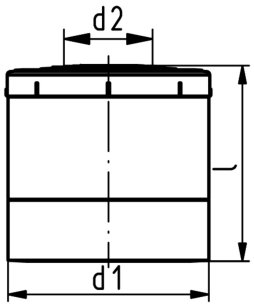




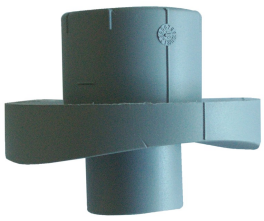
INSTAFLEX Special reducer PB Predrilled

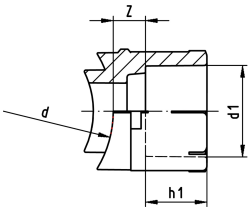
Drilled hole d16 to d50
* on request

	d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	l (mm)
*	75	16	**761 069 500**	1	0.193	88
*	75	20	**761 069 501**	1	0.214	88
*	75	25	**761 069 502**	1	0.200	88
*	75	32	**761 069 503**	1	0.182	88
*	75	40	**761 069 504**	1	0.175	88
*	75	50	**761 069 505**	1	0.161	88
*	90	16	**761 069 506**	1	0.254	87
*	90	20	**761 069 507**	1	0.242	87
*	90	25	**761 069 508**	1	0.240	87
*	90	32	**761 069 509**	1	0.236	87
*	90	40	**761 069 510**	1	0.226	87
*	90	50	**761 069 511**	1	0.213	87
*	110	16	**761 069 512**	1	0.400	94
*	110	20	**761 069 513**	1	0.387	94
*	110	25	**761 069 514**	1	0.373	94
*	110	32	**761 069 515**	1	0.376	94
*	110	40	**761 069 516**	1	0.372	94
*	110	50	**761 069 517**	1	0.357	94



Weld-in saddles

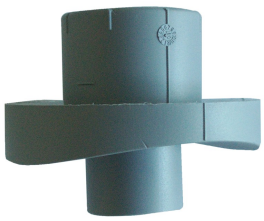


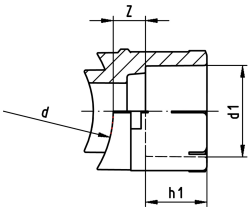


INSTAFLEX Weld-in saddle PB

* on request

	d - d1 (mm)	Code	SP	Weight (kg)	h1 (mm)	z (mm)
*	40 - 20	**761 068 000**	5	0.011	15	11
	50 - 20	**761 068 003**	5	0.011	15	11
	50 - 25	**761 068 004**	5	0.014	18	11
	50 - 32	**761 068 005**	5	0.019	20	11
	63 - 20	**761 068 006**	5	0.012	15	11
	63 - 25	**761 068 007**	5	0.016	18	11
	63 - 32	**761 068 008**	5	0.022	20	11
	75 - 20	**761 068 009**	5	0.014	15	12
	75 - 25	**761 068 010**	5	0.017	18	12
	75 - 32	**761 068 011**	5	0.022	20	12
	90 - 20	**761 068 012**	5	0.018	15	13
	90 - 25	**761 068 013**	5	0.021	18	13
	90 - 32	**761 068 014**	5	0.027	20	13
	110 - 20	**761 068 015**	5	0.019	15	14
	110 - 25	**761 068 016**	5	0.022	18	14
	110 - 32	**761 068 017**	5	0.020	20	14

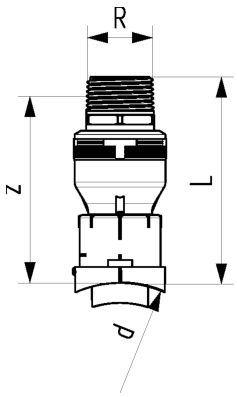




INSTAFLEX Weld-in saddle PB

d - d1 (mm)	Code	SP	Weight (kg)	h1 (mm)	z (mm)
125 - 32	**761 068 018**	5	0.035	20	16
125 - 40	**761 068 019**	5	0.056	22	16
125 - 50	**761 068 020**	5	0.072	25	16
160 - 32	**761 068 021**	5	0.045	20	16
160 - 40	**761 068 022**	5	0.061	22	16
160 - 50	**761 068 023**	5	0.077	25	16
225 - 32	**761 068 024**	5	0.076	20	16
225 - 40	**761 068 025**	5	0.076	22	16
225 - 50	**761 068 026**	5	0.092	25	16

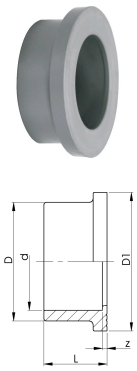




INSTAFLEX Weld-in saddle transition PB/Brass
With male thread

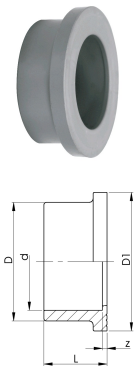
Weld-in saddle transition to male thread
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
EPDM sealing hot and cold water approved

d (mm)	R (inch)	Code	SP	Weight (kg)	L (mm)	z (mm)
50	¾	**761 069 758**	2	0.143	100	75
63	1	**761 069 759**	2	0.228	100	83
75	1	**761 069 760**	2	0.228	100	83
90	1	**761 069 761**	2	0.233	103	86
110	1	**761 069 762**	2	0.226	105	88
125	1	**761 069 763**	2	0.241	108	91
160	1	**761 069 764**	2	0.251	108	91
225	1	**761 069 765**	2	0.282	108	91



INSTAFLEX Transition PB
To Ball Valve 546

d (mm)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	L (mm)	z (mm)
20	**761 066 940**	2	0.005	27	33	20	3
25	**761 066 941**	2	12.000	33	44	22	3
32	**761 066 942**	2	0.016	41	53	24	3
40	**761 066 943**	2	0.026	51	65	26	3
50	**761 066 944**	2	0.041	62	77	29	3
63	**761 066 945**	2	0.075	77	99	34	3



INSTAFLEX Flange adaptor flat PB

Suitable for flange or union nut

d (mm)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	L (mm)	z (mm)
16	**761 066 630**	10	0.005				
20	**761 066 631**	10	0.007	27	34	20	5
25	**761 066 632**	10	0.010	33	41	23	5
32	**761 066 633**	10	0.017	41	50	25	5
40	**761 066 634**	10	0.026	50	61	27	5
50	**761 066 635**	10	0.039	61	73	30	5
63	**761 066 636**	2	0.063	76	90	33	5
75	**761 066 637**	2	0.093	90	106	35	4
90	**761 066 638**	2	0.140	109	125	42	6
110	**761 066 639**	2	0.230	131	150	49	7



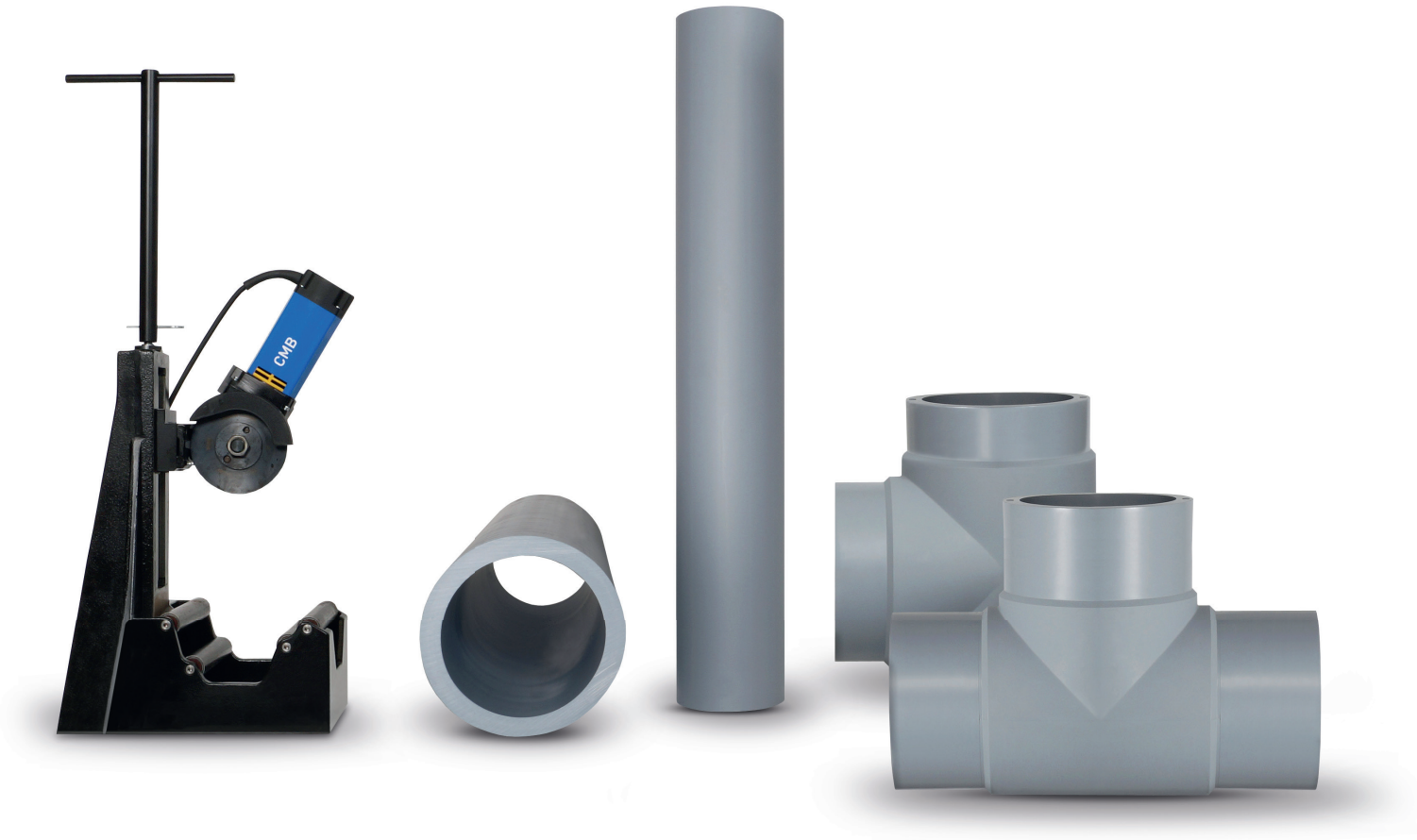
INSTAFLEX Flange adaptor PB

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

d (mm)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	L (mm)	z (mm)
16	**761 066 640**	10	0.006	22	29	23	8
20	**761 066 641**	10	0.008	27	34	23	8
25	**761 066 642**	10	0.012	33	41	26	8
32	**761 066 643**	10	0.021	41	50	28	8
40	**761 066 644**	10	0.034	50	61	32	10
50	**761 066 645**	10	0.049	61	73	35	10
63	**761 066 646**	2	0.077	76	90	38	10
75	**761 066 647**	2	0.111	90	106	40	9
90	**761 066 648**	2	0.179	109	125	47	11
110	**761 066 649**	2	0.292	131	150	55	13

INSTAFLEX

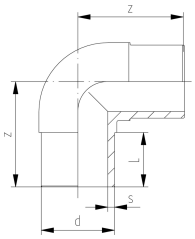
Butt fusion



Butt fusion		Page
	Butt fusion fittings	82
	Flange connections	83

Butt fusion fittings



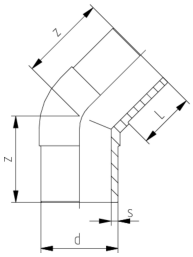


INSTAFLEX Butt fusion Elbow 90° PB

- Material: PB

d (mm)	Code	SP	Weight (kg)	L (mm)	z (mm)
125	**761 065 258**	1	1.615	93	182
160	**761 065 259**	1	3.077	104	213
225	**761 065 260**	1	7.795	122	270
315	**761 065 321**	1	20.990	152	522



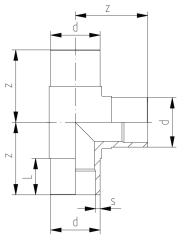


INSTAFLEX Butt Fusion Elbow 45° PB

- Material: PB

d (mm)	Code	SP	Weight (kg)	L (mm)	z (mm)
125	**761 065 261**	1	1.246	92	140
160	**761 065 262**	1	2.379	102	162
225	**761 065 263**	1	6.065	122	200
315	**761 065 325**	1	14.000	420	245

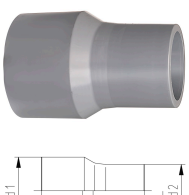


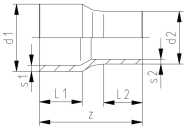


INSTAFLEX Tee 90° - equal PB

- Material: PB

d (mm)	Code	SP	Weight (kg)	L (mm)	z (mm)
125	**761 065 255**	1	2.397	93	183
160	**761 065 256**	1	4.312	102	210
225	**761 065 257**	1	11.984	122	270
315	**761 065 320**	1	20.105	569	280



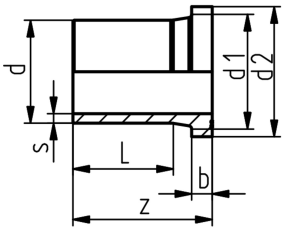


INSTAFLEX Reducer PB

- Material: PB

d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	z (mm)
125	110	**761 065 267**	1	0.729	92	85	215
160	125	**761 065 268**	1	1.263	102	92	245
225	160	**761 065 269**	1	2.800	122	102	280
315	225	**761 065 322**	1	7.933	154	125	377





INSTAFLEX Flange adaptor flat PB

- Material: PB

d (mm)	Code	SP	Weight (kg)	d1 (mm)	d2 (mm)	L (mm)	b (mm)	z (mm)
125	**761 065 264**	1	0.870	132	162	123	25	170
160	**761 065 265**	1	1.700	176	218	147	25	200
225	**761 065 266**	1	3.003	236	274	122	32	200
315	**761 065 323**	1	5.227	336	371	170	36	291



INSTAFLEX Bach-up ring

d (mm)	di (mm)	Code	SP	Weight (kg)
125	102.2	**761 065 283**	1	0.300

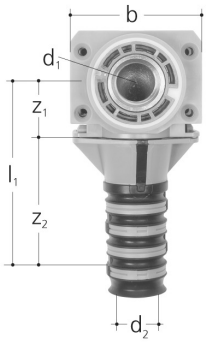
GF Piping Systems

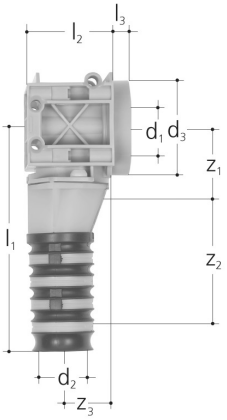
INSTAFLEX

Pipes outlets



INSTAFLEX Box 90° Brass/Plastic





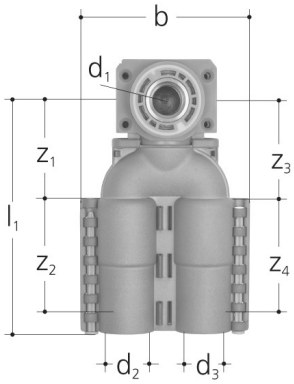
- Material: brass (low lead), plastic
- Connection: female thread
- Consisting of: box body, box foot, bend, clamp screw connection

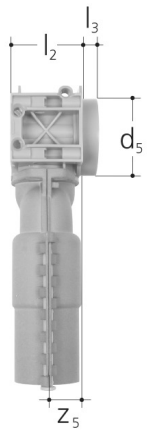
*as long as stock last

	d (mm)	Rp (inch)	GF Code	SP	Weight (kg)
	16	½	**760 857 187**	1	0.110
	20	½	**760 857 188**	1	0.148
*	20	¾	**760 857 189**	1	0.182

	d (mm)	b (mm)	d1 Rp (inch)	d2 (mm)	d3 (mm)	l1 (mm)	l2 (mm)	l3 (mm)	z1 (mm)	z2 (mm)	z3 (mm)
	16	16	½	25	47	109	41	10	37	50	21
	20	20	½	29	47	118	41	10	44	50	17
*	20	20	¾	29	47	118	41	10	44	50	15

INSTAFLEX Box 2-way 90° Brass/Plastic





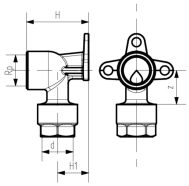
- Material: brass (low lead), plastic
- Connection: female thread
- Consisting of: box body, box foot, bend, clamp screw connection

*as long as stock last

	d-d (mm)	Rp (inch)	GF Code	SP	Weight (kg)
*	16 - 16	½	**760 857 190**	1	0.400
*	20 - 16	½	**760 857 192**	1	0.400
*	20 - 20	½	**760 857 193**	1	0.400

	b (mm)	d1 Rp (inch)	d2 (mm)	d3 (mm)	d5 (mm)	l1 (mm)	l2 (mm)	l3 (mm)	z1 (mm)	z2 (mm)	z3 (mm)	z4 (mm)	z5 (mm)
*	110	½	25	25	47	148	41	10	66	50	66	50	17
*	110	½	29	25	47	148	41	10	69	50	66	50	17
*	110	½	29	29	47	148	41	10	69	50	69	50	17



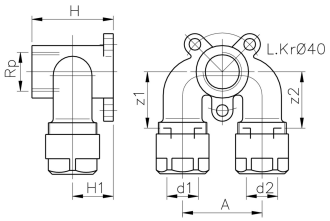


INSTAFLEX Single pipe outlet Brass With flange

Screw 760 856 040, self tapping M6 x 16
* for GIS wall mounting
**as long as stock last

	d (mm)	Rp (inch)	Code	SP	Weight (kg)	H (mm)	H1 (mm)	z (mm)
**	16	½	**760 857 007**	10	0.180	44	22	28
**	16	½	**760 857 008**	2	0.279	60	22	28
**	16	½	**760 857 009**	2	0.319	80	22	28
* & **	16	½	**760 857 010**	2	0.333	100	22	28
**	20	½	**760 857 011**	10	0.213	44	25	28
**	20	¾	**760 857 012**	1	0.313	44	25	28



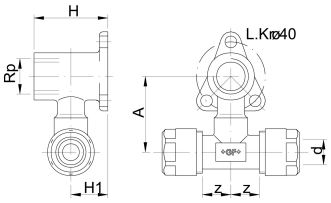


INSTAFLEX Dual pipe outlet Brass With flange

Screw 760 856 040, self tapping M6 x 16
* for GIS wall mounting

	d1 (mm)	d2 (mm)	Rp (inch)	Code	SP	Weight (kg)	H (mm)	H1 (mm)	z1 (mm)	z2 (mm)	A (mm)
	16	16	½	**760 857 013**	1	0.380	44	22	30	30	40
*	16	16	½	**760 857 014**	1	0.501	100	22	30	30	40
	20	20	½	**760 857 015**	1	0.439	44	25	32	32	40

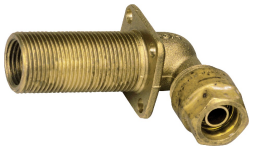


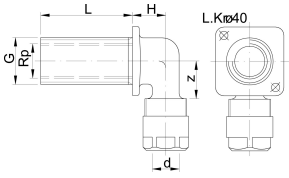


Dual pipe outlet - flange

Screw 760 856 040, self tapping M6 x 16
*as long as stock last

	d (mm)	Rp (inch)	Code	SP	Weight (kg)	H (mm)	H1 (mm)	z (mm)
*	16	½	**760 857 197**	10	0.344	44	22	19



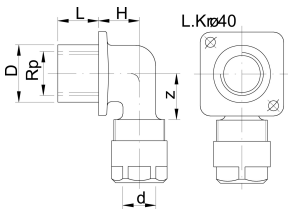


INSTAFLEX Single pipe outlet brass With mounting flange

Screw 760 856 040, self tapping M6 x 16
* on request
**as long as stock last
- Material: brass

	d (mm)	Rp (inch)	G (inch)	Code	SP	Weight (kg)	L (mm)	H (mm)	z (mm)
	16	½	¾	**760 856 041**	2	0.236	30	20	26
* & **	16	½	¾	**760 856 050**	2	0.254	42	20	26
	16	½	¾	**760 869 906**	2	0.273	55	20	26



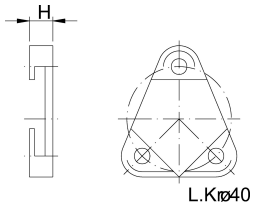


INSTAFLEX Single pipe outlet Brass
With mounting flange

Screw 760 856 040, self tapping M6 x 16
*as long as stock last

	d (mm)	Rp (inch)	Code	SP	Weight (kg)	D (mm)	L (mm)	H (mm)	z (mm)
*	16	½	**760 869 904**	2	0.222	27	20	22	26



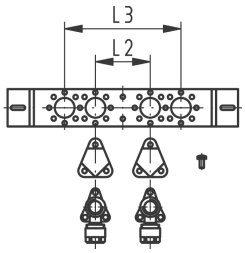


INSTAFLEX Rubber isolator
For pipe outlets

Suitable for dual pipe outlets

H (mm)	Code	SP	Weight (kg)	z (mm)
9	**760 856 205**	20	0.007	3



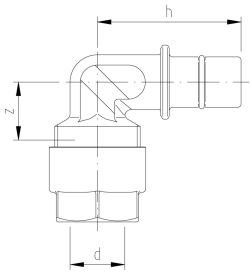


INSTAFLEX Pipe outlet GIS

Consitsting: 1 Distance plate, 2 Rubber isolator, 6 Screws, 2 Single pipe outlet d16 - 1/2"
*as long as stock last

	L2 (mm)	L3 (mm)	Code	SP	Weight (kg)
*	73	153	**760 856 010**	1	0.933



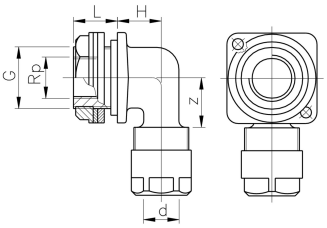


INSTAFLEX Pipe outlet for flushing cistern Meplafix 90° Brass

Incl. protection cap
*as long as stock last

	d (mm)	Code	SP	Weight (kg)	h (mm)	z (mm)
*	16	**760 857 016**	1	0.163	43	21



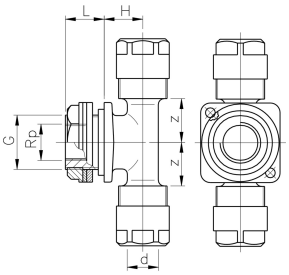


INSTAFLEX Single pipe outlet Brass

With fastening set
*as long as stock last

	d (mm)	Rp (inch)	Code	SP	Weight (kg)	G (inch)	H (mm)	L (mm)	z (mm)
*	16	½	**760 857 017**	5	0.243	1	22	14	26



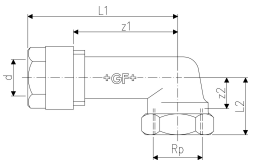


INSTAFLEX Dual pipe outlet Brass
Not interchangeable

With fastening set
*as long as stock last

	d (mm)	Rp (inch)	Code	SP	Weight (kg)	G (inch)	L (mm)	H (mm)	z (mm)
*	16	½	**760 857 018**	5	0.340	1	14	22	26

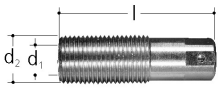




INSTAFLEX Single pipe outlet brass
90°

* as long as stock last
- Material: brass

	d (mm)	Rp (inch)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	z1 (mm)	z2 (mm)
*	16	½	**760 854 882**	5	0.210	67	30	46	17
*	20	½	**760 854 883**	5	0.225	74	30	48	17
*	20	¾	**760 854 884**	5	0.304	76	30	50	16



Pressure-pin steel

- Material: steel, galvanized
- Connection: male thread

For iFIT, INSTAFLEX, JRG Sanipex, JRG Sanipex MT

GN (inch)	JRG Code	GF Code	SP	Weight (kg)	d1 G (inch)	l (mm)	d2 (inch)
½	**5741.092**	**355 564 103**	10	0.120	¼	65	½

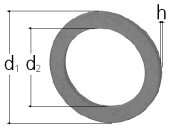


Venting Screw for pressure-pin steel

- Material: steel
- Description: to 5741

For iFIT, INSTAFLEX, JRG Sanipex, JRG Sanipex MT

d (inch)	GF Code	Weight (kg)
¼	**355 564 102**	0.008



Gasket to pressure-pin EPDM

- Description: to 5741
- Material: EPDM

For iFIT, INSTAFLEX, JRG Sanipex, JRG Sanipex MT

GF Code	SP	Weight (kg)	d1 (mm)	d2 (mm)	h (mm)
355 564 105	1	0.000	11	5	3

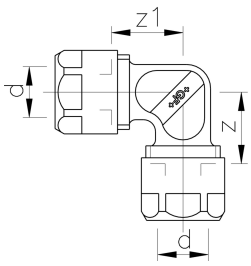
INSTAFLEX

Compression jointing



Compression jointing		Page
	Compression joint fittings	92
	Manifolds in nonferrous metal	95
	Accessories for compression joint fittings	96



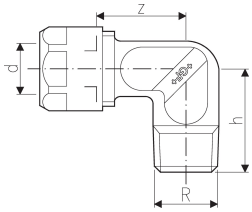


INSTAFLEX Elbow 90° Brass

Brass: UBA conform
*as long as stock last

	d (mm)	Code	SP	Weight (kg)	z (mm)	z1 (mm)
*	16	**760 857 047**	5	0.206	22	22
*	20	**760 857 048**	5	0.280	24	24



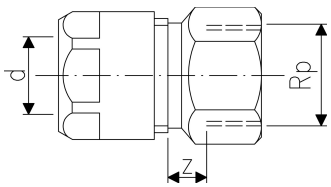


INSTAFLEX Transition elbow 90° Brass
With male thread

Brass: UBA conform
*as long as stock last

	d (mm)	R (inch)	Code	SP	Weight (kg)	h (mm)	z (mm)
*	16	½	**760 857 049**	5	0.171	35	27
*	20	¾	**760 857 052**	5	0.208	35	29
*	25	¾	**760 857 053**	2	0.236	44	34
*	20	½	**760 857 051**	5	0.207	35	29
*	16	¾	**760 857 050**	2	0.188	35	27



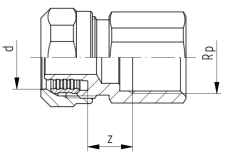


INSTAFLEX Transition Brass
With female thread

Brass: UBA conform

d (mm)	Rp (inch)	Code	SP	Weight (kg)	z (mm)
16	½	**760 857 019**	5	0.078	12
16	¾	**760 857 020**	5	0.144	15
20	½	**760 857 021**	5	0.204	14
20	¾	**760 857 022**	5	0.174	15



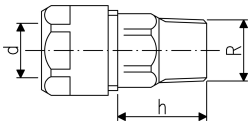


INSTAFLEX Transition Brass
With female thread

Brass: UBA conform
* on request

	d (mm)	Rp (inch)	Code	SP	Weight (kg)	z (mm)	Remarks
	25	¾	**760 857 023**	1	0.124	7	
	25	1	**760 857 024**	10	0.202	13	
	32	1	**760 857 025**	10	0.261	7	
	40	1 ¼	**760 857 026**	1	0.364	7	
	50	1 ½	**760 857 027**	1	0.506	7	
	63	2	**760 857 028**	1	1.896	9	
	75	2 ½	**760 857 029**	1	1.907	10	without approval
*	90	3	**760 857 030**	1	0.800	9	without approval
*	110	4	**760 857 031**	1	5.800	38	without approval



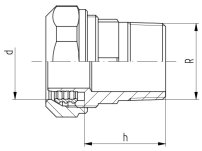


INSTAFLEX Transition Brass
With male thread

Brass: UBA conform

d (mm)	R (inch)	Code	SP	Weight (kg)	h (mm)
16	½	**760 857 032**	5	0.111	30
16	¾	**760 857 033**	5	0.156	34
20	½	**760 857 034**	5	0.148	38
20	¾	**760 857 035**	5	0.230	36



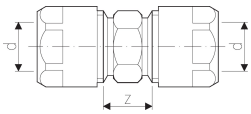


INSTAFLEX Transition Brass
With male thread

Brass: UBA conform
* on request

	d (mm)	R (inch)	Code	SP	Weight (kg)	h (mm)	Remarks
	25	¾	**760 857 036**	1	0.144	35	
	25	1	**760 857 037**	10	0.177	41	
	32	1	**760 857 038**	1	0.293	42	
	40	1 ¼	**760 857 039**	1	0.409	44	
	50	1 ½	**760 857 040**	1	0.576	47	
	63	2	**760 857 041**	1	1.736	32	
	75	2 ½	**760 857 042**	1	2.093	37	without approval
*	90	3	**760 857 043**	1	2.806	32	without approval
*	110	4	**760 857 044**	1	3.429	38	without approval



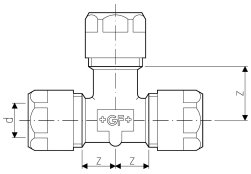


INSTAFLEX Socket Brass

Brass: UBA conform
*as long as stock last

	d (mm)	Code	SP	Weight (kg)	z (mm)
*	16	**760 857 045**	2	0.156	26
*	20	**760 857 046**	2	0.300	28



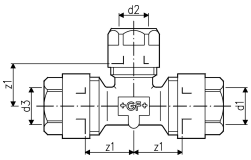


INSTAFLEX Tee 90° equal Brass

Brass: UBA conform
*as long as stock last

	d (mm)	Code	SP	Weight (kg)	z (mm)
*	16	**760 857 054**	2	0.275	22
*	20	**760 857 055**	2	0.416	24



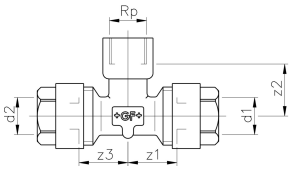


INSTAFLEX Tee 90° reduced Brass

Brass: UBA conform
*as long as stock last

	d1 (mm)	d2 (mm)	d3 (mm)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	z3 (mm)
*	20	16	20	**760 857 056**	2	0.380	24	23	23
*	20	16	16	**760 857 057**	2	0.342	24	23	23
*	20	20	16	**760 857 058**	2	0.375	24	24	23



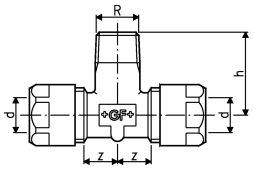


INSTAFLEX Transition Tee Brass
With female thread

Brass: UBA conform
*as long as stock last

	d (mm)	Rp (inch)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	z3 (mm)
*	20	½	**760 857 059**	5	0.340	24	22	24



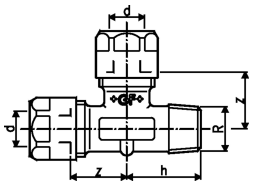


INSTAFLEX Transition Tee Brass
With male thread

Not UBA conform
* as long as stock last

	d (mm)	R (inch)	Code	SP	Weight (kg)	h (mm)	z (mm)
*	16	½	**760 854 711**	2	0.225	38	19





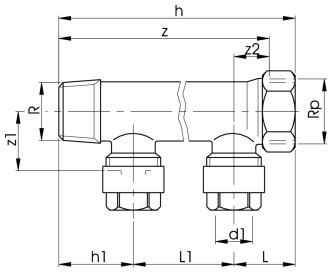
INSTAFLEX Transition Tee Brass
With male thread

* as long as stock last

	d (mm)	R (inch)	Code	SP	Weight (kg)	h (mm)	z (mm)
*	16	½	**760 869 987**	2	0.209	30	22

Manifolds in nonferrous metal





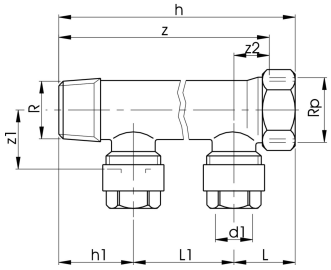
INSTAFLEX Manifold 90° Brass 3/4" (DN 20)

DZR brass suitable for portable water
* as long as stock last

		d (mm)	R (inch)	Rp (inch)	Code	SP	Weight (kg)
*	1-fold	16	¾	¾	**760 857 061**	5	0.220
*	1-fold	20	¾	¾	**760 857 062**	5	0.283
*	2-fold	16	¾	¾	**760 857 063**	5	0.391
*	3-fold	16	¾	¾	**760 857 064**	5	0.561
*	4-fold	16	¾	¾	**760 857 065**	5	0.470

		d (mm)	R (inch)	Rp (inch)	L (mm)	L1 (mm)	h (mm)	h1 (mm)	z (mm)	z1 (mm)	z2 (mm)
*	1-fold	16	¾	¾	28	0	59	31	45	24	14
*	1-fold	20	¾	¾	33	0	69	36	55	26	19
*	2-fold	16	¾	¾	28	45	104	31	90	24	14
*	3-fold	16	¾	¾	28	45	149	31	135	24	14
*	4-fold	16	¾	¾	28	45	194	31	180	24	14





INSTAFLEX Manifold 90° Brass 1" (DN 25)

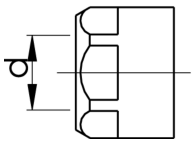
DZR brass suitable for portable water
* as long as stock last

		d (mm)	R (inch)	Rp (inch)	Code	SP	Weight (kg)
*	2-fold	20	1	1	**760 857 069**	5	0.636
*	3-fold	16	1	1	**760 857 070**	1	0.678
*	4 fold	16	1	1	**760 857 071**	1	0.877

		d (mm)	R (inch)	Rp (inch)	L (mm)	L1 (mm)	h (mm)	h1 (mm)	z (mm)	z1 (mm)	z2 (mm)
*	2-fold	20	1	1	33	60	135	42	118	29	16
*	3-fold	16	1	1	28	45	152	34	135	29	11
*	4 fold	16	1	1	28	45	197	34	180	29	11

Accessories for compression joint fittings

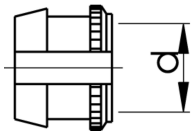




INSTAFLEX Union nut Brass

d (mm)	Code	SP	Weight (kg)
16	**760 853 018**	5	0.034
20	**760 853 071**	2	0.047

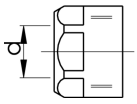




INSTAFLEX Clamping ring Brass

d (mm)	Code	SP	Weight (kg)
16	**760 853 019**	5	0.011
20	**760 853 072**	2	0.016



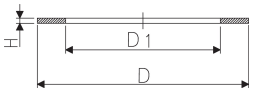


INSTAFLEX Cap Brass

Including seal

d (mm)	Code	SP	Weight (kg)
16	**760 857 072**	5	0.051
20	**760 857 073**	5	0.094



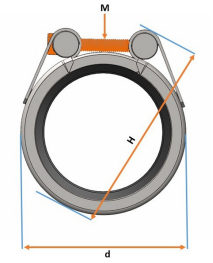


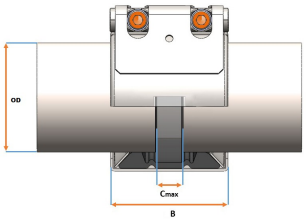
INSTAFLEX Seal
For caps

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

d-d (mm)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	H (mm)
16 - 20	**760 853 021**	5	0.002	15	6	3







UNI-Plastgrip S Coupling stainless steel 1.4571
Tensile-resistant connection of plastic and plastic
PN10 Solid bolt

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C
- Operating temperature Silicone or Viton on request

Option:

- Sealing type Viton (FKM) on request

Remark:

For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory

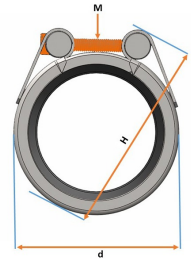
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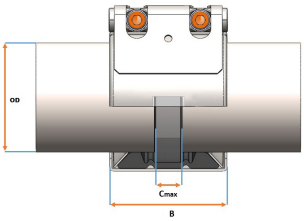
- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

OD nominal (mm) (mm)	EPDM Code	NBR Code
39 - 43	**779 732 006**	**779 729 006**
48 - 53	**779 732 008**	**779 729 008**
58 - 64	**779 732 010**	**779 729 010**
72 - 80	**779 732 012**	**779 729 012**
88 - 96	**779 732 014**	**779 729 014**
104 - 112	**779 732 016**	**779 729 016**
122 - 130	**779 732 018**	**779 729 018**
137 - 145	**779 732 020**	**779 729 020**
157 - 165	**779 732 022**	**779 729 022**
172 - 185	**779 712 024**	**779 709 024**
195 - 208	**779 712 025**	**779 709 025**
215 - 228	**779 712 027**	**779 709 027**
247 - 260	**779 712 029**	**779 709 029**
269 - 282	**779 712 030**	**779 709 030**
312 - 325	**779 712 031**	**779 709 031**
350 - 363	**779 712 032**	**779 709 032**

OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	OD1 (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
39 - 43	M8	10	16	15	39	43	2	66	60	104	25
48 - 53	M8	10	16	15	48	53	2	74	60	112	25
58 - 64	M8	10	16	25	58	64	3	85	75	125	25
72 - 80	M10	10	16	30	72	80	3	108	95	164	40
88 - 96	M10	10	16	30	88	96	3	124	95	170	40
104 - 112	M10	10	16	30	104	112	3	141	95	187	40
122 - 130	M10	10	16	30	122	130	3	158	95	202	40
137 - 145	M12	10	16	40	137	145	3	186	110	238	65
157 - 165	M12	10	16	40	157	165	3	205	110	255	65
172 - 185	M16	10	16	40	172	185	3	223	138	259	160
195 - 208	M16	10	16	40	195	208	3	246	138	272	160
215 - 228	M16	10	16	40	215	228	3	272	138	298	160
247 - 260	M16	10	16	40	247	260	3	298	138	324	160
269 - 282	M16	10	16	40	269	282	3	320	142	346	160
312 - 325	M16	10	16	40	312	325	3	363	146	389	160
350 - 363	M16	10	16	40	350	363	3	401	146	427	160







UNI-Plastgrip S/S2 coupling stainless steel 1.4571
Tensile-resistant connection of plastic and plastic
PN6 Solid bolt

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton (FKM) on request

Remark:

For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory

Attention:

- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
172 - 185	**779 742 024**	**779 739 024**	5.0
195 - 208	**779 742 025**	**779 739 025**	5.4
215 - 228	**779 742 027**	**779 739 027**	5.8
247 - 260	**779 742 029**	**779 739 029**	6.5
269 - 282	**779 742 030**	**779 739 030**	6.9
312 - 325	**779 742 031**	**779 739 031**	8.6
350 - 363	**779 742 032**	**779 739 032**	9.5
395 - 408	**779 742 033**	**779 739 033**	13.5
447 - 460	**779 742 034**	**779 739 034**	17.5
502 - 515	**779 742 035**	**779 739 035**	19.3

OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
172 - 185	6	10	172	185	223	140	259
195 - 208	6	10	195	208	246	140	272
215 - 228	6	10	215	228	272	140	298
247 - 260	6	10	247	260	298	140	324
269 - 282	6	10	269	282	320	140	346
312 - 325	6	10	312	325	363	142	389
350 - 363	6	10	350	363	401	142	427
395 - 408	6	10	395	408	446	146	472
447 - 460	6	10	447	460	498	146	524
502 - 515	6	10	502	515	553	146	579



Insert stiffener Economy

Model:

- Suitable for PE and PVC pipes
- Stainless steel A2 quality (AISI 304), optional A4 quality (AISI 316)
- For pipe sizes > d355 use an insert stiffener with wedge
- Other pipe sizes < d355 available on request
- For MULTI/JOINT® DN625 till DN800 please see MJ DN625 - DN800 insert stiffeners
- Other pipe sizes available on request
- Suitable for plastic pipes
- Suitable for PE, PP and PB pipes
- Other dimensions available on request

d x e (mm)	SDR	L (mm)	Code	Weight (kg)
40 x 3,7	11.0	100	**709 026 391**	0.100
40 x 2,3	17.6 / 17.0	100	**709 026 392**	0.100
50 x 2.4	21	175	**709 026 207**	0.130
50 x 4,6	11.0	100	**709 026 203**	0.130
50 x 2,9	17.6 / 17.0	100	**709 026 206**	0.130

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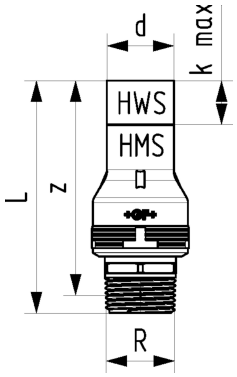
d x e (mm)	SDR	L (mm)	Code	Weight (kg)
63 x 5,8	11.0	100	**709 026 211**	0.160
63 x 3,6	17.6 / 17.0	100	**709 026 214**	0.160
63 x 2,0	33	100	**709 026 217**	0.160
63 x 1,5	41	100	**709 026 415**	0.160
75 x 6,8	11.0	100	**709 026 220**	0.190
75 x 4,3	17.6 / 17.0	100	**709 026 223**	0.190
75 x 1,9	41	100	**709 026 227**	0.190
90 x 8,2	11.0	120	**709 026 230**	0.270
90 x 5,2	17.6 / 17.0	120	**709 026 233**	0.270
90 x 2,8	33	120	**709 026 236**	0.270
90 x 2,2	41	120	**709 026 238**	0.270
110 x 10,0	11.0	120	**709 026 242**	0.330
110 x 6,3	17.6 / 17.0	120	**709 026 245**	0.330
110 x 3,4	33	120	**709 026 248**	0.330
110 x 2,7	41	120	**709 026 250**	0.330
125 x 11,4	11.0	120	**709 026 254**	0.380
125 x 7,2	17.6 / 17.0	120	**709 026 257**	0.380
140 x 12,7	11.0	140	**709 026 266**	0.490
140 x 8,0	17.6 / 17.0	140	**709 026 269**	0.490
160 x 14,6	11.0	140	**709 026 278**	0.850
160 x 9,1	17.6 / 17.0	140	**709 026 281**	0.850
160 x 4,9	33	140	**709 026 284**	0.850
160 x 4,0	41	140	**709 026 286**	0.850
180 x 16,4	11.0	140	**709 026 290**	0.950
180 x 10,7	17.0	140	**709 026 408**	0.950
180 x 10,3	17.6	140	**709 026 293**	0.950
200 x 18,2	11.0	160	**709 026 302**	1.210
200 x 11,9	17.0	160	**709 026 409**	1.210
200 x 11,4	17.6	160	**709 026 305**	1.210
200 x 6,1	33	160	**709 026 308**	1.210
200 x 4,9	41	160	**709 026 310**	1.210
225 x 20,5	11.0	160	**709 026 314**	1.360
225 x 13,4	17.0	160	**709 026 410**	1.360
225 x 12,8	17.6	160	**709 026 317**	1.360
250 x 22,8	11.0	160	**709 026 326**	2.010
250 x 14,8	17.0	160	**709 026 411**	2.010
250 x 14,3	17.6	160	**709 026 329**	2.010
250 x 7,6	33	160	**709 026 332**	2.010
250 x 6,1	41	160	**709 026 334**	2.010
280 x 25,5	11.0	160	**709 026 338**	2.250
280 x 16,6	17.0	160	**709 026 340**	2.250
280 x 16,0	17.6	160	**709 026 341**	2.250
315 x 28,7	11.0	160	**709 026 350**	2.530
315 x 18,7	17.0	160	**709 026 413**	2.530
315 x 17,9	17.6	160	**709 026 353**	2.530
315 x 9,6	33	160	**709 026 356**	2.530
315 x 7,7	41	160	**709 026 358**	2.530
355 x 32,3	11.0	160	**709 026 362**	2.850
355 x 21,1	17.0	160	**709 026 414**	2.850
355 x 20,2	17.6	160	**709 026 365**	2.850

System adapters

Male thread
Female thread
Loose nut
Adapter union







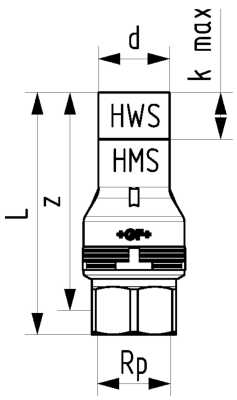
INSTAFLEX Adapter PB/Brass
Socket fusion transition to male thread

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

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

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



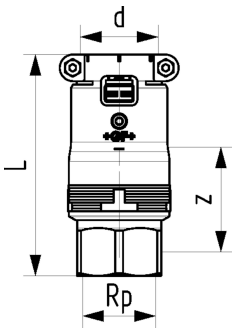


INSTAFLEX Adapter PB/Brass
Socket fusion transition to female thread

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

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



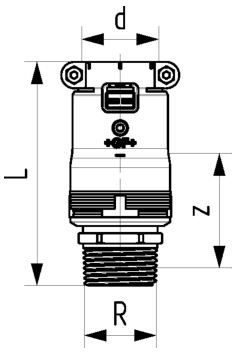


INSTAFLEX Adapter PB/Brass
Electro fusion transition to female thread

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

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



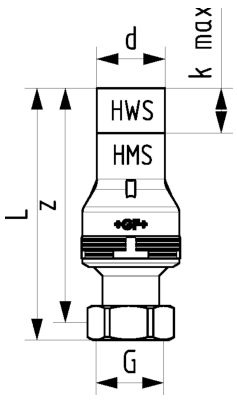


INSTAFLEX Adapter PB/Brass
Electro fusion transition to male thread

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

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



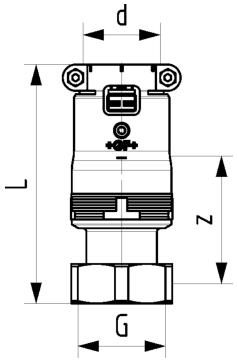


INSTAFLEX Adapter PB/Brass Socket fusion transition to loose nut adapter concering / Flat seal

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

	d (mm)	G (inch)	Code	SP	Weight (kg)	L (mm)	z (mm)	k max. (mm)	L min. SF (mm)
	16	¾	**761 069 684**	1	0.715	100	93	22	17
	20	¾	**761 069 685**	1	0.158	102	94	24	16
	20	1	**761 069 686**	1	0.171	107	98	24	16
	25	¾	**761 069 687**	1	0.171	108	101	23	20
	25	1	**761 069 688**	1	0.211	110	102	23	20
	25	1 ¼	**761 069 689**	1	0.274	118	109	23	20
	32	1	**761 069 690**	1	0.260	118	110	21	22
	32	1 ¼	**761 069 691**	1	0.289	118	110	21	22
	32	1 ½	**761 069 692**	1	0.358	119	110	21	22
	40	1 ¼	**761 069 693**	1	0.378	134	105	24	26
	40	1 ½	**761 069 694**	1	0.402	132	124	24	24
*	40	2	**761 069 695**	1	0.576	139	126	24	24
	50	1 ¾	**761 069 696**	1	0.607	142	131	22	28
	50	2 ¼	**761 069 697**	1	0.705	150	138	22	28
	63	2 ⅜	**761 069 698**	1	1.051	159	147	21	30
*	63	2 ¾	**761 069 699**	1	1.177	161	146	21	30
*	16	½	**761 069 700**	1	0.125	98	91	22	16
*	20	¾	**761 069 701**	1	0.116	102	95	24	16

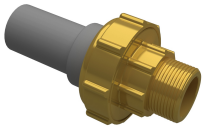


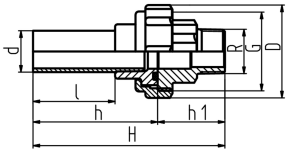


INSTAFLEX Adapter PB/Brass
Electro fusion transition to loose nut adapter / Flat Seal

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

	d (mm)	G (inch)	Code	SP	Weight (kg)	L (mm)	z (mm)
*	16	¾	**761 069 720**	1	0.143	90	46
*	20	¾	**761 069 721**	1	0.138	92	46
*	20	1	**761 069 722**	1	0.196	98	50
*	25	¾	**761 069 723**	1	0.127	99	50
*	25	1	**761 069 724**	1	0.192	102	51
*	25	1 ¼	**761 069 725**	1	0.254	109	58
*	32	1 ¼	**761 069 727**	1	0.293	109	58
*	32	1	**761 069 726**	1	0.223	109	58
*	32	1 ½	**761 069 728**	1	0.373	110	58
*	40	1 ¼	**761 069 729**	1	0.395	123	67
*	40	1 ½	**761 069 730**	1	0.479	121	64
*	40	2	**761 069 731**	1	0.588	128	68
*	50	1 ¾	**761 069 732**	1	0.629	131	73
*	50	2 ¼	**761 069 733**	1	0.731	138	77
*	63	2 ⅜	**761 069 734**	1	1.107	152	89
*	63	2 ¾	**761 069 735**	1	1.225	155	89
*	16	½	**761 069 736**	1	0.162	88	44
*	20	¾	**761 069 737**	1	0.156	93	47

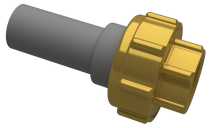


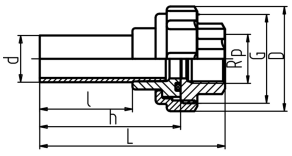


INSTAFLEX Adapter union PB/Brass
With spigot for electro fusion and socket fusion / Male thread

Spigot for electro fusion and socket fusion - male thread
Including EPDM O-Ring, quality suitable for potable water

d (mm)	R (inch)	Code	SP	Weight (kg)	D (mm)	H (mm)	G (inch)	h (mm)	h1 (mm)	l (mm)
16	½	**760 857 200**	1	0.221	41	106	1	68	38	45
20	½	**760 857 201**	1	0.232	46	110	1 ¼	70	40	47
25	¾	**760 857 202**	1	0.340	52	117	1 ½	76	41	50
32	1	**760 857 203**	1	0.489	64	123	2	78	45	50
40	1 ¼	**760 857 204**	1	0.673	79	136	2 ½	88	48	56
50	1 ½	**760 857 205**	1	0.783	85	141	2 ¾	93	48	58
63	2	**760 857 206**	1	1.100	104	152	3 ½	98	54	60



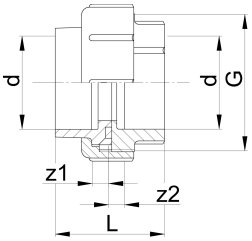


INSTAFLEX Adapter union PB/Brass
With spigot for electro fusion and socket fusion / Female thread

Spigot for electro fusion and socket fusion - female thread
Including EPDM O-Ring, quality suitable for potable water

d (mm)	Rp (inch)	GF Code	SP	Weight (kg)	D (mm)	L (mm)	G (inch)	l (mm)	h (mm)	z (mm)
16	½	**760 857 207**	1	0.171	41	90	1	45	68	9
20	½	**760 857 208**	1	0.225	46	94	1 ¼	47	70	10
25	¾	**760 857 209**	1	0.274	52	100	1 ½	50	76	9
32	1	**760 857 210**	1	0.391	64	103	2	50	78	8
40	1 ¼	**760 857 211**	1	0.620	79	114	2 ½	56	88	7
50	1 ½	**760 857 212**	1	0.678	85	119	2 ¾	58	93	7
63	2	**760 857 213**	1	1.036	104	126	3 ½	60	98	5

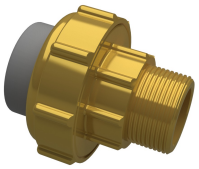


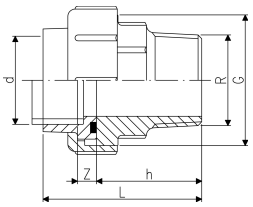


INSTAFLEX Union PB/Brass
Socket-socket

Including EPDM O-Ring, quality suitable for potable water

d (mm)	Code	SP	Weight (kg)	G (inch)	L (mm)	z1 (mm)	z2 (mm)
16	**761 066 691**	10	0.135	1	43	8	5
20	**761 066 692**	10	0.164	1 ¼	43	8	5
25	**761 066 693**	10	0.208	1 ½	49	8	5
32	**761 066 694**	5	0.300	2	53	8	5
40	**761 066 695**	5	0.469	2 ½	59	10	5
50	**761 066 696**	2	0.525	2 ¾	65	10	5
63	**761 066 697**	2	0.766	3 ½	71	10	5

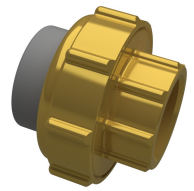


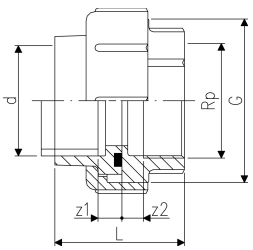


INSTAFLEX Adapter union PB/Brass
Socket / Male thread

Including EPDM O-Ring, quality suitable for potable water

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

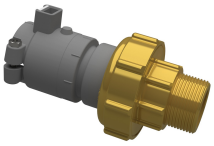


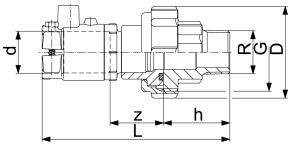


INSTAFLEX Adapter union PB/Brass
Socket / Female thread

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

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

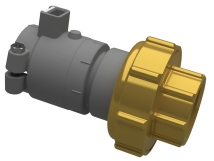


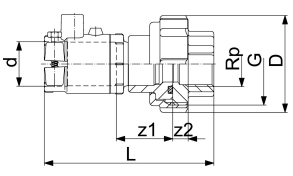


INSTAFLEX Adapter union PB/Brass
Electro fusion / Male thread

Including EPDM O-Ring, quality suitable for potable water

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



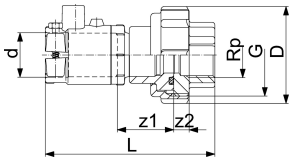


INSTAFLEX Adapter union PB/Brass
Electro fusion / Female thread

Including EPDM O-Ring, quality suitable for potable water

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

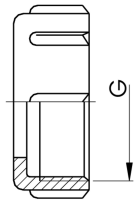
table continued on the next page



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

Accessories



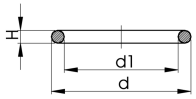


INSTAFLEX Union nut

Suitable for flange or union nut

d (mm)	G (inch)	Code	SP	Weight (kg)
16	1	**761 066 188**		0.090
20	1 ¼	**761 066 100**	84	0.100
25	1 ½	**761 066 101**		0.104
32	2	**761 066 102**		0.142
40	2 ½	**761 066 103**		0.226
50	2 ¾	**761 066 104**		0.261
63	3 ½	**761 066 105**		0.334



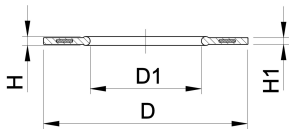


INSTAFLEX O-ring

Quality suitable for potable water

d (mm)	Code	SP	Weight (kg)	d1 (mm)	D (mm)	H (mm)
16	**761 066 558**	0	0.002	19	26	4
20	**761 066 124**	0	0.002	23	31	4
25	**761 066 125**	0	0.001	28	35	4
32	**761 066 126**	0	0.001	36	43	4
40	**761 066 127**		0.004	44	55	5
50	**761 066 128**	0	0.001	53	64	5
63	**761 066 129**	0	0.002	69	80	5
75	**761 070 036**		0.007	82	93	5
90	**761 070 037**		0.008	101	112	5
110	**761 070 038**		0.016	120	134	7





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

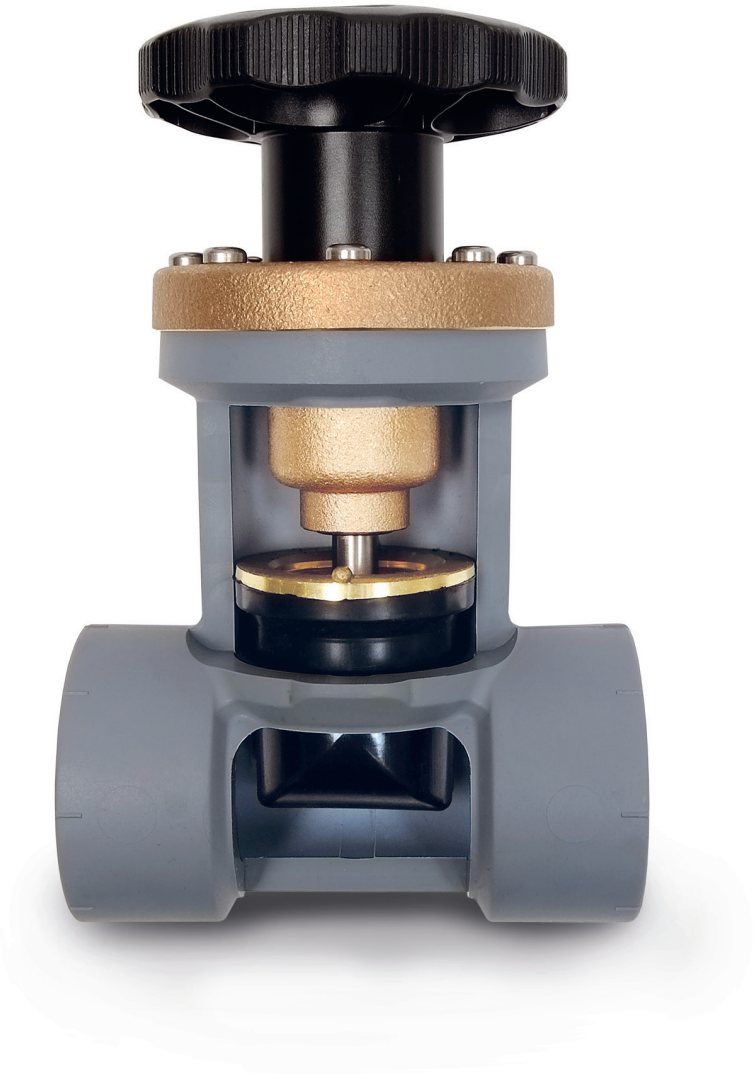
Model:

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

d (mm)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)	H1 (mm)
20	15	16	**748 440 706**	0	0.009	**749 440 706**	0.013	51	20	4	3
25	20	16	**748 440 707**	0	0.015	**749 440 707**	0.014	61	22	4	3
32	25	16	**748 440 708**	0	0.013	**749 440 708**	0.019	71	28	4	3
40	32	16	**748 440 709**	0	0.019	**749 440 709**	0.026	82	40	4	3
50	40	16	**748 440 710**	0	0.029	**749 440 710**	0.039	92	46	4	3
63	50	16	**748 440 711**	0	0.041	**749 440 711**	0.050	107	58	5	4
75	65	16	**748 440 712**	0	0.053	**749 440 712**	0.082	127	69	5	4
90	80	16	**748 440 713**	20	0.064	**749 440 713**	0.083	142	84	5	4

INSTAFLEX

Valves



Valves		Page
	PB-valves	117
	Spare parts - Retrofit top	120
	Ball valves	122
	Butterfly valves	125
	Additional components	127

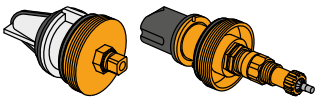
9.6 Assembly of PB valves (d20 – d63)

NOTE! Material damage due to incorrect assembly.
→ Compliance with the assembly instructions is mandatory.

9.6.1 Balancing valve/distribution valve

When using as a **flush-mounted installation** with handwheel activation, the valve can be used as a balancing shut-off or as a distributor shut-off valve. The valves are equipped with an anthracite-coloured handwheel. The enclosed washers (red/green) are used to mark hot or cold water. The valve can be welded to the INSTAFLEX welding machine using a similar process as the one used for the fittings.
→ Weld pipes and/or distributors directly into the distributor body according to the welding instructions.

9.6.2 Assembly – Replacing the PB valve (d20, d25, d32)



The individual steps are illustrated on the next page.

Replacing the PB valve (d20, d25, d32)

① **Material damage due to escaping medium!**
→ Before starting work: Turn off the water at the main tap.
→ Completely empty the pipeline.

→ Open the valve as far as it will go.

Remove the old valve

② → Loosen the screw of the handwheel.
→ Pull off the handwheel.

③ → Loosen the upper part, turning it counter-clockwise (whole thread length).

④ → Remove the upper part.

Install new valve

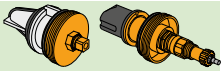
⑤ → Open the valve as far as it will go.

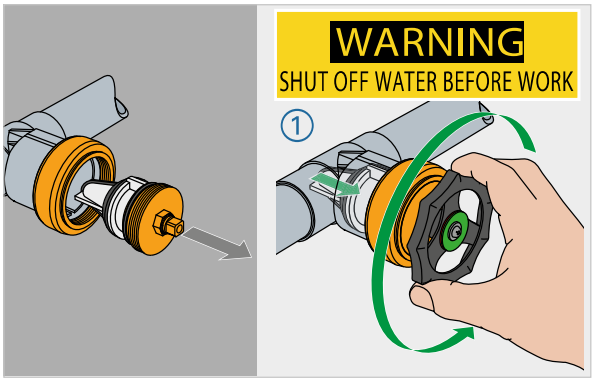
⑥ → Insert new upper part.
- Ensure the pins engage in the opening grooves.

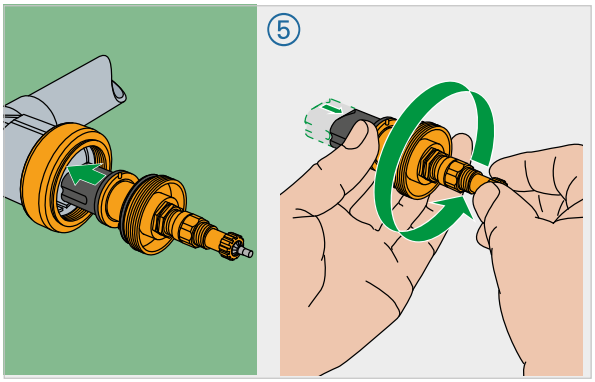
⑦ → Tighten the upper part.

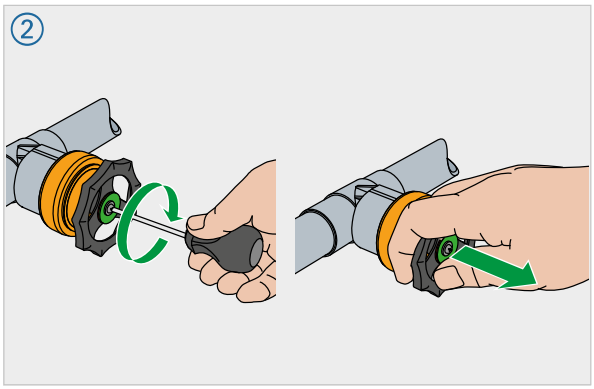
⑧ → Insert the handwheel.

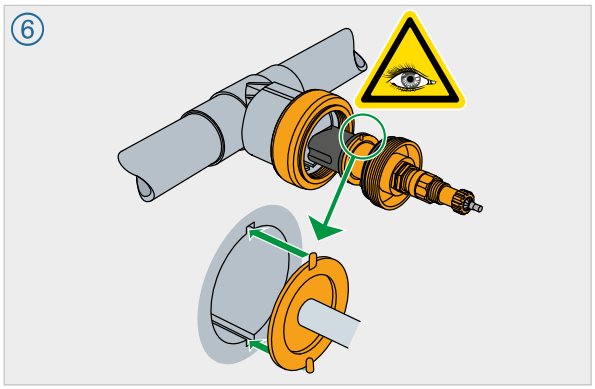
Assembly – Replacing the PB valve (d20, d25, d32)

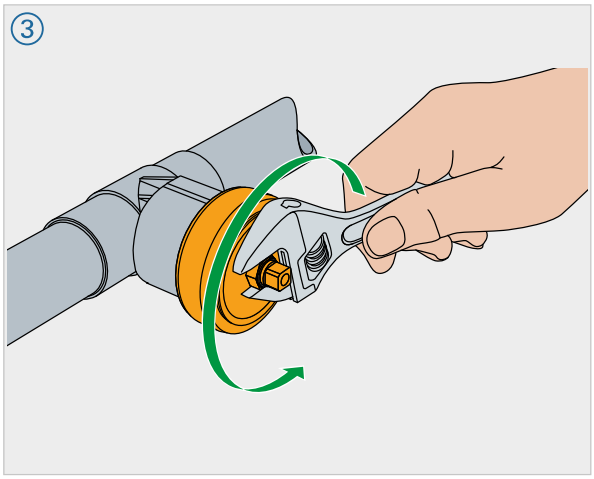


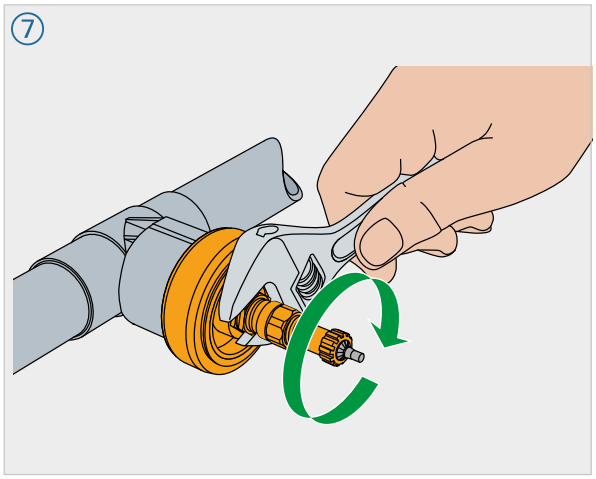


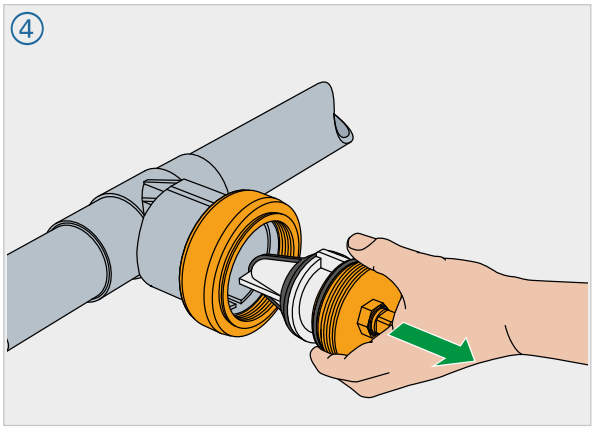


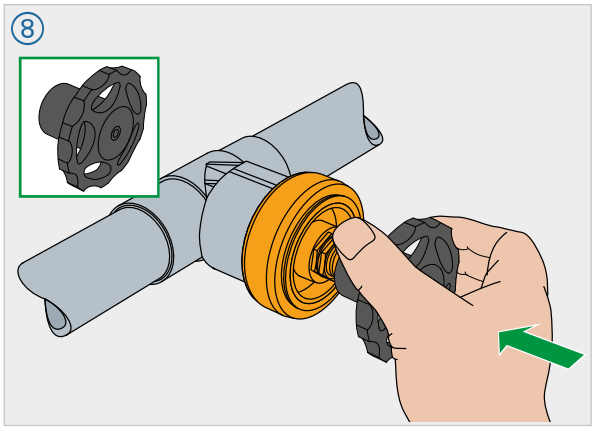






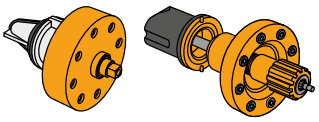






V

9.6.3 Assembly – Replacing the PB valve (d40, d50, d63)



The individual steps are illustrated on the next page.

Replacing the PB valve (d40, d50, d63)

① **Material damage due to escaping medium!**
→ Before starting work: Turn off the water at the main tap.
→ Completely empty the pipeline.

→ Open the valve as far as it will go.

Remove the old valve

② → Loosen the screw of the handwheel.
→ Pull off the handwheel.

③ → Use a cordless screwdriver to loosen the screws on upper part and remove them.

④ → Remove the upper part.

Install new valve

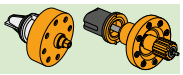
⑤ → Open the valve as far as it will go.

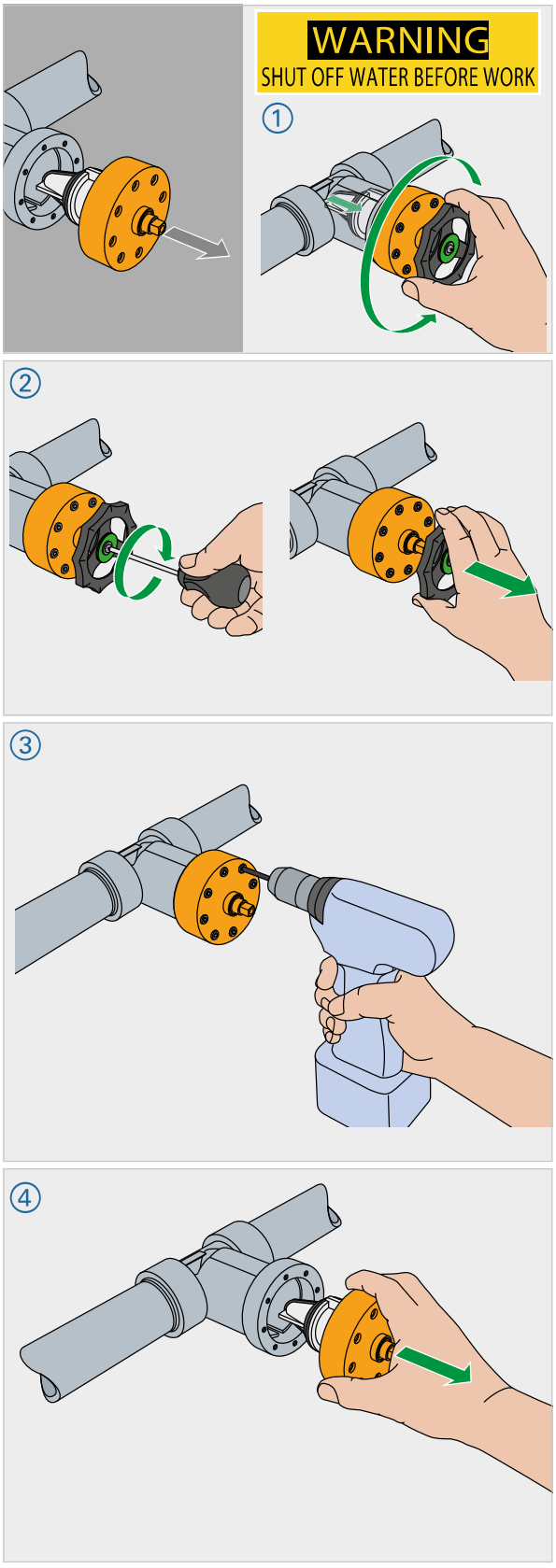
⑥ → Insert new upper part.
- Ensure the pins engage in the opening grooves.

⑦ → Use a cordless screwdriver and tighten all screws.

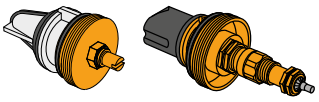
⑧ → Insert the handwheel.

Assembly – Replacing the PB valve (d40, d50, d63)





Assembly – Replacing the PB valve (UP) (d20, d25, d32)



The individual steps are illustrated on the next page.

Replacing the PB valve (UP) (d20, d25, d32)

① **Material damage due to escaping medium!**
→ Before starting work: Turn off the water at the main tap.
→ Completely empty the pipeline.

→ Remove the cover rosette.

Remove the old valve

② → Open the valve as far as it will go.

③ → Use a spanner insert with AF18 and a ratchet key to loosen the nut on the upper part.

④ → Slightly tilt the ratchet key and pull out the upper part.

Install new valve

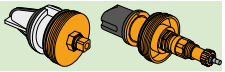
⑤ → Open the valve as far as it will go.

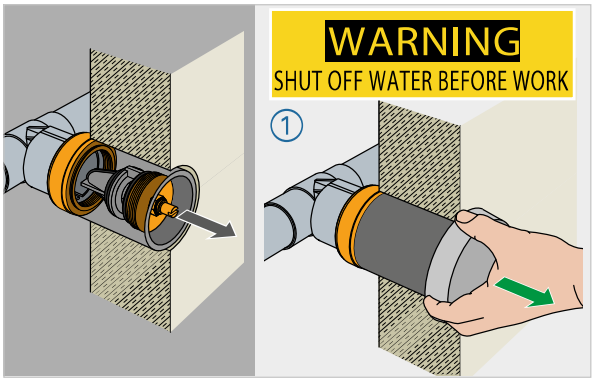
⑥ → Use a spanner insert with AF18 and a ratchet key to pick up the new valve body and insert it into the UP pipe.
- Ensure the pins engage in the opening grooves.

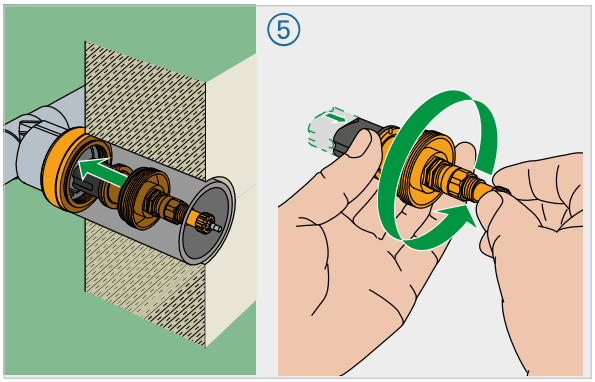
⑦ → Use a spanner insert with AF18 and a ratchet key to tighten the valve body, turning it clockwise.

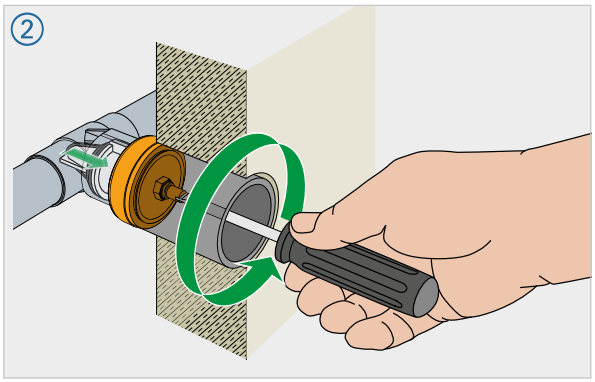
⑧ → Insert the actuator rod (1).
(1) d_a = 50 mm, d_i = 44 mm
→ Cut the actuator rod to the appropriate length: x = 20 mm
→ Install the new cover rosette with integrated actuation. Ensure the actuator rod engages in the cover rosette and is firmly seated.

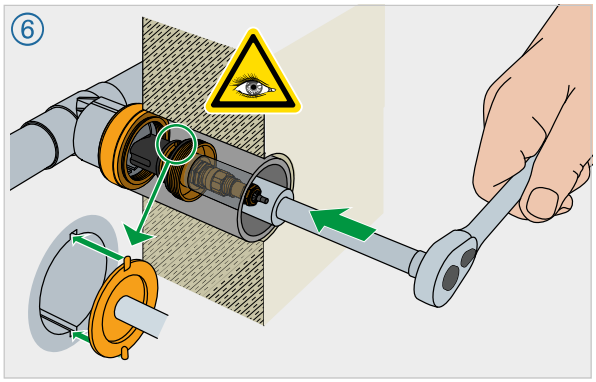
Assembly – Replacing the PB valve (UP) (d20, d25, d32)

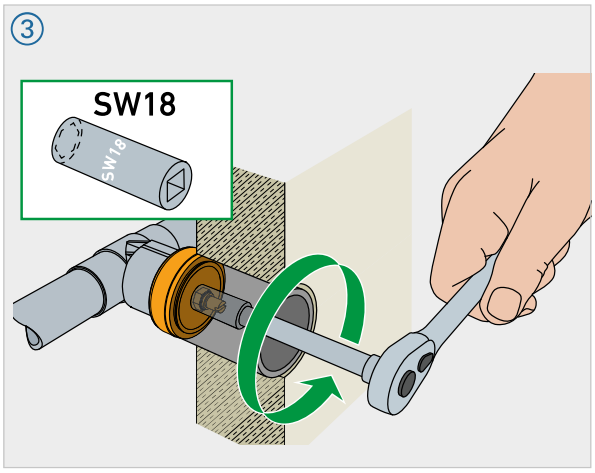


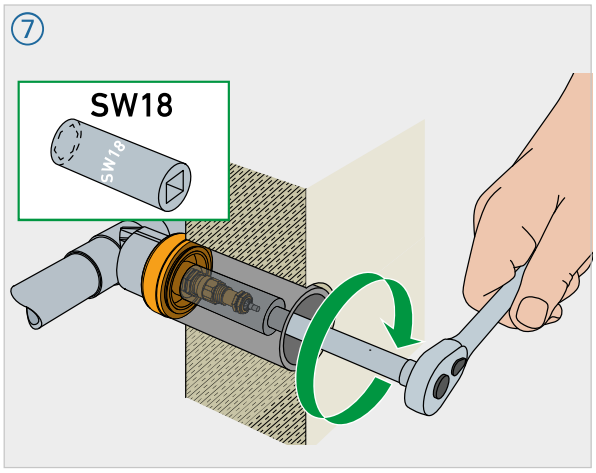


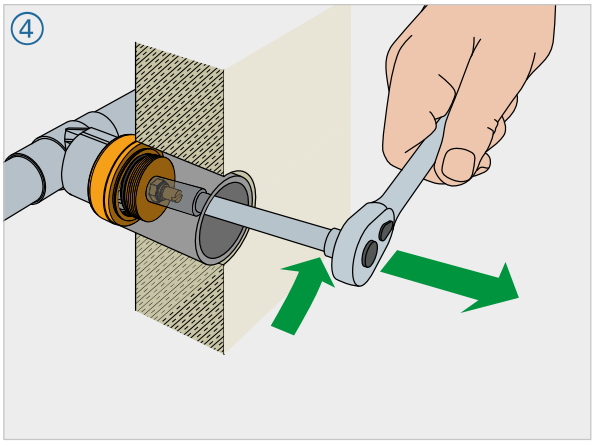


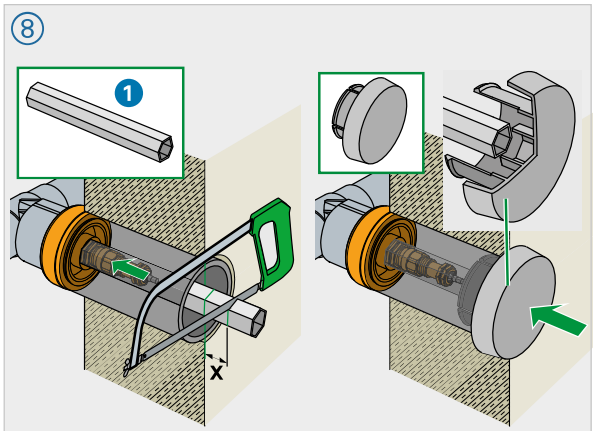












V

9.6.4 Assembly – Installing the PB valve (UP) (d20, d25, d32)

Install the PB valve (UP) with extension (d230, d25, d32)

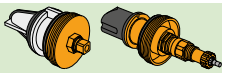
① **Material damage due to escaping medium!**
→ Before starting work: Turn off the water at the main tap.
→ Completely empty the pipeline.

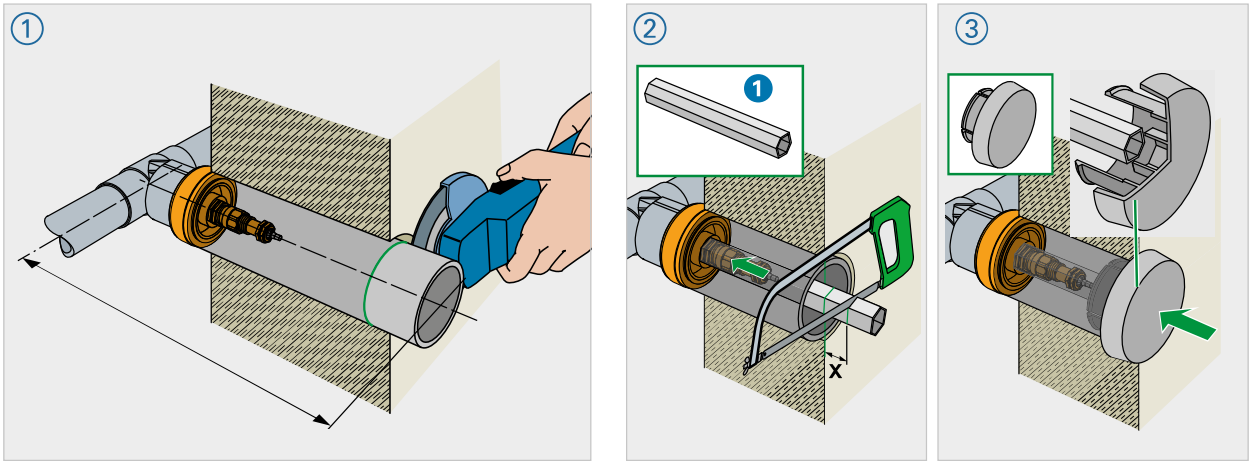
① → Cut extension pipe to length (length l = maximum 330 mm).

② → Insert the actuator rod ❶.
❶ d_a = 50 mm, d_i = 44 mm
→ Cut the actuator rod to the appropriate length (x = 20 mm).

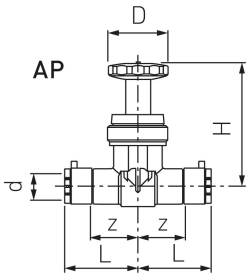
③ → Install the new cover rosette with integrated actuation.
• Ensure the actuator rod engages in the cover rosette and is firmly seated.

Assembly – Installing the PB valve (UP) (d20, d25, d32)







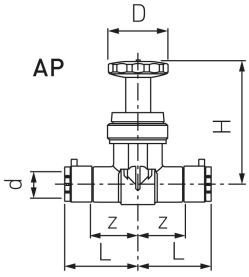


INSTAFLEX Valve BTV 2 PB

- Material: PB, brass, gunmetal
- Brass: UBA conform
- Gasket: EPDM, approved for potable hot and cold water
- Connection: for electrofusion

d (mm)	DN (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	H (mm)	z (mm)
20	15	**761 069 647**	1	0.425	55	86	112	47
25	20	**761 069 648**	1	0.427	55	89	112	47
32	25	**761 069 649**	1	0.470	55	94	112	52
40	32	**761 069 650**	1	1.237	90	112	165	65
50	40	**761 069 651**	1	1.369	90	120	165	71
63	50	**761 069 652**	1	1.851	90	141	165	90





INSTAFLEX Valve BTV 2 PB
With spigot G 1/4"

- Material: PB, brass, gunmetal
- Brass: UBA conform
- Gasket: EPDM, approved for potable hot and cold water
- Connection: electrofusion, without drain valve

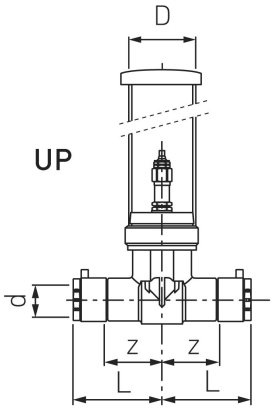
d (mm)	DN (mm)	Code	SP	Weight (kg)	H (mm)	L (mm)	z (mm)	D (mm)
20	15	**761 069 653**	1	0.489	112	86	47	55
25	20	**761 069 654**	1	0.494	112	89	47	55
32	25	**761 069 655**	1	0.520	112	94	52	55
40	32	**761 069 656**	1	1.298	165	112	65	90
50	40	**761 069 657**	1	1.431	165	120	71	90
63	50	**761 069 658**	1	1.754	165	141	90	90



INSTAFLEX UPV BTV 2 PB

- Material: PB, brass, gunmetal
- Brass: UBA conform
- Gasket: EPDM, approved for potable hot and cold water
- Connection: for electrofusion

d (mm)	DN (mm)	Code	SP	Weight (kg)	H (mm)	L (mm)	z (mm)	D (mm)
20	15	**761 069 659**	1	0.607	330	86	47	55
25	20	**761 069 660**	1	0.609	330	89	47	55
32	25	**761 069 661**	1	0.652	330	94	52	55

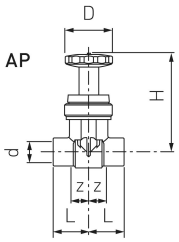


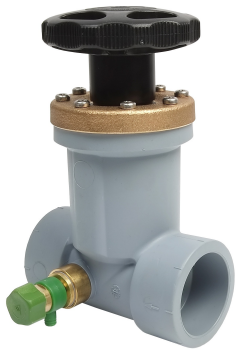


INSTAFLEX Valve BTV 2 PB
Without drain

- Material: PB, brass, gunmetal
- Brass: UBA conform
- Connection: socket fusion
- Gasket: EPDM, approved for potable hot and cold water

d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	H (mm)	z (mm)	Value (Zeta)	kv-100-value (Δp=1 bar) (l/min)
20	**761 070 304**	1	0.379	55	40	112	25	0.4	421
25	**761 070 305**	1	0.370	55	40	112	22	0.4	421
32	**761 070 306**	1	0.387	55	43	112	23	0.4	421
40	**761 070 307**	1	1.099	90	55	165	33	0.3	1291
50	**761 070 308**	1	1.151	90	60	165	35	0.3	1291
63	**761 070 309**	1	1.492	90	75	165	47	0.3	1291

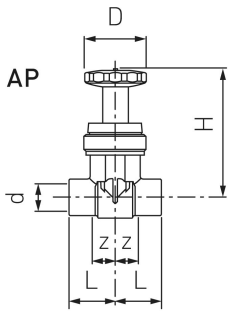




INSTAFLEX Valve BTV 2 PB
With spigot G 1/4"

- Material: PB, brass, gunmetal
- Brass: low lead content
- Connection: socket fusion, without drain valve ¼"
- Operation pressure: 16 bars
- Approvals: hot- and cold water approved
- Gasket: EPDM, quality for potable water

d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	H (mm)	z (mm)	Value (Zeta)	kv-100-value (Δp=1 bar) (l/min)
20	**761 070 310**	1	0.443	55	40	112	25	0.4	421
25	**761 070 311**	1	0.434	55	40	112	22	0.4	421
32	**761 070 312**	1	0.434	55	43	112	23	0.4	421
40	**761 070 313**	1	1.161	90	55	165	33	0.3	1291
50	**761 070 314**	1	1.213	90	60	165	35	0.3	1291
63	**761 070 315**	1	1.394	90	75	165	47	0.3	1291

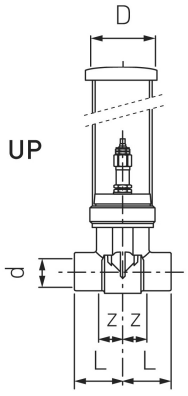




INSTAFLEX UPV BTV 2 PB

- Material: PB, brass, gunmetal
- Brass: UBA conform
- Connection: socket fusion
- Gasket: EPDM, approved for potable hot and cold water

d (mm)	DN (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	H (mm)	z (mm)
20	15	**761 070 316**	1	0.561	55	40	370	25
25	20	**761 070 317**	1	0.552	55	40	370	22
32	25	**761 070 318**	1	0.569	55	43	370	23



Spare parts - Retrofit top



Retrofit top d20/d25

Suitable to repair the old version of the INSTAFLEX system valve and the new BTV 2
For additional information please see the installation manual for BTV 2 (760 809 086)

d (mm)	Code	SP	Weight (kg)
20 / 25	**761 066 896**	1	0.225



Retrofit top d32
INSTAFLEX
Spare part for code no. 761069650 / 761069655 / 761070306 / 761070312

Suitable to repair the old version of the INSTAFLEX system valve and the new BTV 2
For additional information please see the installation manual for BTV 2 (760 809 086)
Gasket: EPDM, quality for potable water

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

d (mm)	Code	SP	Weight (kg)
32	**761 066 897**	1	0.227



Retrofit top d40/d50/d63

Suitable to repair the old version of the INSTAFLEX system valve and the new BTV 2
For additional information please see the installation manual for BTV 2 (760 809 086)

d (mm)	Code	SP	Weight (kg)
40 / 50 / 63	**761 065 303**	1	0.878



Retrofit top UPV d20/d25

Suitable to repair the old version of the INSTAFLEX system valve and the new BTV 2
For additional information please see the installation manual for BTV 2 (760 809 086)

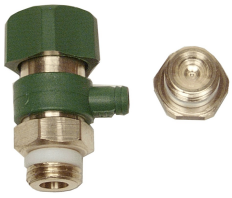
d (mm)	Code	SP	Weight (kg)
20 / 25	**761 066 898**	1	0.263



Retrofit top UPV d32

Suitable to repair the old version of the INSTAFLEX system valve and the new BTV 2
For additional information please see the installation manual for BTV 2 (760 809 086)

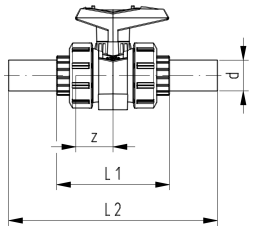
d (mm)	Code	SP	Weight (kg)
32	**761 066 899**	1	0.264



INSTAFLEX Drain valve
With plug

G (inch)	Code	SP	Weight (kg)
¼	**761 066 328**	1	0.046



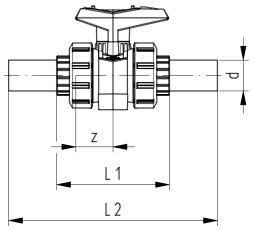


INSTAFLEX Ball valve type 546 PVC-C PB-spigots

Working temperture max. +70°C
* on request

	d (mm)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	z (mm)
*	20	15	16	**761 066 343**	1	0.178	95	190	33
*	25	20	16	**761 066 344**	1	0.271	108	208	38
*	32	25	16	**761 066 345**	1	0.386	118	218	39
*	40	32	16	**761 066 346**	1	0.676	137	250	47
*	50	40	16	**761 066 347**	1	0.988	147	263	49
*	63	50	16	**761 066 348**	1	1.642	168	288	46

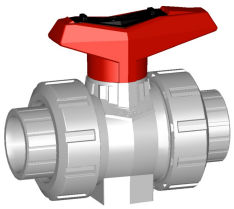


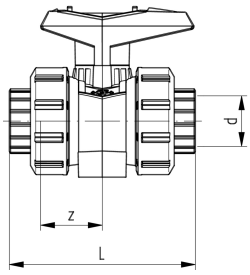


INSTAFLEX Ball valve type 546 PP PB-spigots

Applicable for compressed air till 10 bar
Working temperture max. +70°C
* on request

	d (mm)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	z (mm)
*	20	15	10	**760 000 343**	1	0.141	95	190	33
*	25	20	10	**760 000 344**	1	0.203	108	208	38
*	32	25	10	**760 000 345**	1	0.298	118	218	39
*	40	32	10	**760 000 346**	1	0.512	137	250	47
*	50	40	10	**760 000 347**	1	0.715	147	263	49
*	63	50	10	**760 000 348**	1	1.293	168	288	46

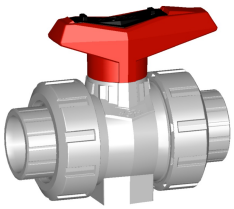


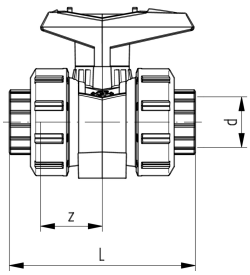


INSTAFLEX Ball valve type 546 PVC-C
PB-flange adaptor

For portable water installations, not DVGW approved

d (mm)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	L (mm)	z (mm)
20	15	16	**761 066 337**	1	0.160	95	33
25	20	16	**761 066 338**	1	0.243	108	38
32	25	16	**761 066 339**	1	0.349	118	39
40	32	16	**761 066 340**	1	0.614	137	47
50	40	16	**761 066 341**	1	0.838	147	49
63	50	16	**761 066 342**	1	1.546	168	46



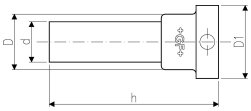


INSTAFLEX Ball valve type 546 Pro PP
Socket fusion / PB-flange adaptor

For portable water installations, not DVGW approved

d (mm)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	L (mm)	z (mm)
20	15	16	**760 000 337**	1	0.119	95	33
25	20	16	**760 000 338**	1	0.182	108	38
32	25	16	**760 000 339**	1	0.255	118	39
40	32	16	**760 000 340**	1	0.446	137	47
50	40	16	**760 000 341**	1	0.609	147	49
63	50	16	**760 000 342**	1	1.118	168	46



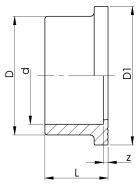


INSTAFLEX Flange adaptor flat PB
With spigot

Suitable to ball valve 546
on request

d (mm)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	h (mm)
20	**761 069 627**	1	0.008	27	34	66
25	**761 069 628**	1	0.025	33	41	71
32	**761 069 629**	1	0.039	41	50	74
40	**761 069 630**	1	0.027	50	61	82
50	**761 069 631**	1	0.094	61	73	87
63	**761 069 632**	1	0.074	76	90	94





INSTAFLEX Transition PB
To Ball Valve 546

d (mm)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	L (mm)	z (mm)
20	**761 066 940**	2	0.005	27	33	20	3
25	**761 066 941**	2	12.000	33	44	22	3
32	**761 066 942**	2	0.016	41	53	24	3
40	**761 066 943**	2	0.026	51	65	26	3
50	**761 066 944**	2	0.041	62	77	29	3
63	**761 066 945**	2	0.075	77	99	34	3



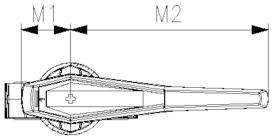
Wafer-style intermediate installation butterfly valve type 567 PVC-C
With hand lever
Flange standard metric/ANSI/BS/JIS

Model:

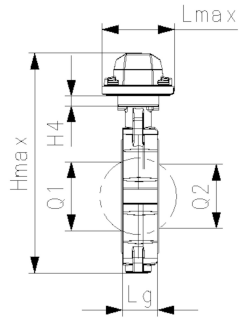
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

Note:

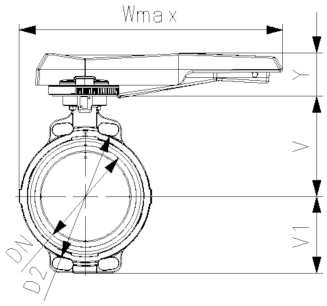
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	740	**163 567 002**	1	1.257	**163 567 022**	1	1.268
75	2 ½	65	10	1500	**163 567 003**	1	1.366	**163 567 023**	1	1.174
90	3	80	10	2400	**163 567 004**	1	1.542	**163 567 024**	1	1.997
110	4	100	10	3800	**163 567 005**	1	2.231	**163 567 025**	1	2.715
140	5	125	10	8600	**163 567 006**	1	2.820	**163 567 026**	1	2.536
160	6	150	10	11400	**163 567 007**	1	4.000	**163 567 027**	1	3.361
225	8	200	10	19900	**163 567 008**	1	5.873	**163 567 028**	1	6.803
280	10	250	10	34000	**163 567 009**	1	14.328	**163 567 029**	1	12.998
315	12	300	10	50000	**163 567 010**	1	18.899	**163 567 030**	1	19.139



d (mm)	PTFE Code	Weight (kg)
63	**163 567 202**	1.257
75	**163 567 203**	1.366
90	**163 567 204**	1.542
110	**163 567 205**	2.231
140	**163 567 206**	2.820
160	**163 567 207**	6.719
225	**163 567 208**	5.873
280		
315		



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	k (mm)	Y (mm)	M1 (mm)
63	278.9	115.2	269.0	90	133.3	23	78.8	45	104	40		125	66.8	64.7
75	291.8	115.2	271.8	90	139.9	23	85.1	46	115	54	35	145	66.8	64.7
90	303.6	115.2	273.9	90	145.6	23	91.2	49	131	67	50	160	66.8	64.7
110	342.2	115.2	336.0	90	166.4	23	105.7	56	161	88	74	180	70.1	64.9
140	368.9	115.2	349.0	90	180.0	23	118.8	64	187	113	97	210	70.1	64.9
160	390.0	115.2	363.0	90	189.0	23	130.9	72	215	139	123	240	70.1	64.9
225	455.1	115.2	543.0	90	210.5	23	158.3	73	267	178	169	295	86.3	103.6
280	555.0	149.4	574.0	125	262.6	23	206.1	113	329	210	207	350	86.3	103.6
315	599.4	149.4	599.7	125	284.3	23	228.8	113	379	256	253	400	86.3	103.6

d (mm)	M2 (mm)
63	205.5
75	205.5
90	205.5
110	255.5
140	255.5
160	255.5
225	409.5
280	409.5
315	409.5



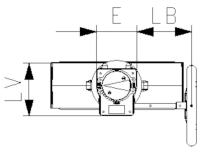
Wafer-style intermediate installation butterfly valve type 567 PVC-C
With gear box
Flange standard metric/ANSI/BS/JIS

Model:

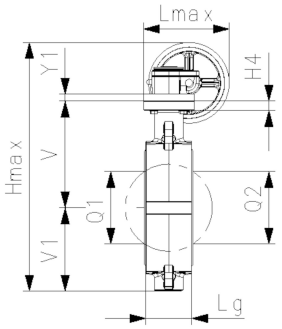
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

Note:

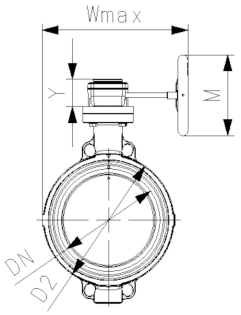
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	740	**163 567 042**	1	3.078	**163 567 062**	1	3.078
75	2 ½	65	10	1500	**163 567 043**	1	3.201	**163 567 063**	1	3.212
90	3	80	10	2400	**163 567 044**	1	3.384	**163 567 064**	1	3.391
110	4	100	10	3800	**163 567 045**	1	4.019	**163 567 065**	1	4.033
140	5	125	10	8600	**163 567 046**	1	4.526	**163 567 066**	1	4.526
160	6	150	10	11400	**163 567 047**	1	5.601	**163 567 067**	1	5.624
225	8	200	10	19900	**163 567 048**	1	7.326	**163 567 068**	1	7.354
280	10	250	10	34000	**163 567 049**	1	14.741	**163 567 069**	1	15.115
315	12	300	10	50000	**163 567 050**	1	19.254	**163 567 070**	1	35.000

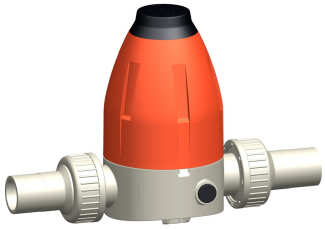


d (mm)	PTFE Code	Weight (kg)
63	**163 567 242**	3.078
75	**163 567 243**	3.201
90	**163 567 244**	3.384
110	**163 567 245**	4.019
140	**163 567 246**	4.526
160	**163 567 247**	5.601
225	**163 567 248**	7.326
280		
315		



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	k (mm)	Y (mm)	E (mm)
63	319.4	169.1	240.2	90	133.3	23	78.8	45	104	40		125	61.2	80
75	332.3	169.1	247.3	90	139.9	23	85.1	46	115	54	35	145	61.2	80
90	344.1	169.1	249.4	90	145.6	23	91.2	49	131	67	50	160	61.2	80
110	379.4	169.1	261.5	90	166.4	23	105.7	56	161	88	74	180	61.2	80
140	406.1	169.1	274.5	90	180.0	23	118.8	64	187	113	97	210	61.2	80
160	427.2	169.1	288.5	90	189.0	23	130.9	72	215	139	123	240	61.2	80
225	476.1	169.1	267.0	90	210.5	23	158.3	73	267	178	169	295	61.2	80
280	613.0	212.6	329.0	125	262.6	23	206.1	113	329	210	207	350	68.4	100
315	657.4	212.6	380.4	125	284.3	23	228.8	113	379	256	253	400	68.4	100

d (mm)	Y1 (mm)	M (mm)	LV (mm)	LB (mm)
63		160	112.3	129.5
75		160	112.3	129.5
90		160	112.3	129.5
110		160	112.3	129.5
140		160	112.3	129.5
160		160	112.3	129.5
225		160	112.3	129.5
280	17	200	130.0	134.0
315	17	200	130.0	134.0

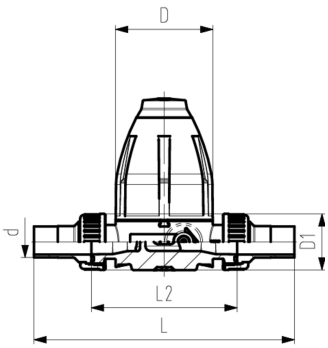


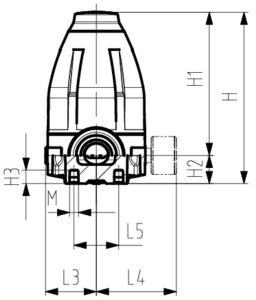
PROGEF Standard Pressure reducing valve type 582
Unions with butt fusion spigots SDR11 metric
Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

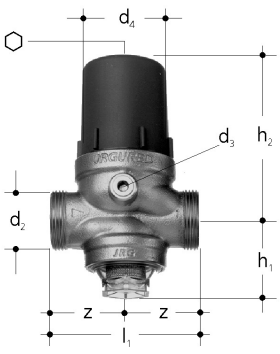
0.3-3.0 bar (4-44 psi) on request
Manometer on request





d (mm)	DN (mm)	Size (inch)	PN (bar)	SDR	O-rings EPDM Code	Weight (kg)	SP	GP	O-rings FKM Code
20	15	½	10	11	**167 582 502**	0.640	1	4	**167 582 512**
25	20	¾	10	11	**167 582 503**	1.350	1		**167 582 513**
32	25	1	10	11	**167 582 504**	1.370	1		**167 582 514**
40	32	1 ¼	10	11	**167 582 505**	3.660	1		**167 582 515**
50	40	1 ½	10	11	**167 582 506**	3.710	1		**167 582 516**
63	50	2	10	11	**167 582 507**	3.860	1		**167 582 517**

d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	L5 (mm)	M	z (mm)	closest inch (inch)
20	79	48	132	111	21	12	158	120	42	40	M6	126	½
25	100	58	177	148	29	14	192	150	53	46	M6	156	¾
32	100	65	177	148	29	14	196	150	53	46	M6	156	1
40	147	77	251	207	44	21	255	205	76	65	M8	211	1 ¼
50	147	84	251	207	44	21	261	205	76	65	M8	211	1 ½
63	147	111	251	207	44	21	269	205	76	65	M8	211	2



JRGURED pressure reducing valve gunmetal

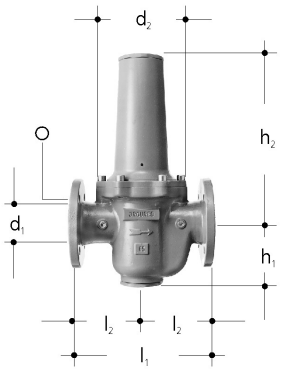
- Temperature: max. 30°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Factory setting: 400 kPa (4 bar)
- Secondary pressure: 200 - 600 kPa (2 - 6 bar)
- Connection: manometer

DN (mm)	GN (inch)	Size (inch)	JRG Code	GF Code	SP	Weight (kg)
15	½	½	**1303.015**	**350 712 301**	1	0.620
20	¾	¾	**1303.020**	**350 712 401**	1	0.770
25	1	1	**1303.025**	**350 712 501**	1	1.340
32	1 ¼	1 ¼	**1303.032**	**350 712 601**	1	1.800
40	1 ½	1 ½	**1303.040**	**350 712 701**	1	3.400
50	2	2	**1303.050**	**350 712 801**	1	4.900
65	2 ½	2 ½	**1303.065**	**350 734 701**	1	5.200

DN (mm)	GN (inch)	d2 G (inch)	d3 Rp (inch)	d4 (mm)	h1 (mm)	h2 (mm)	l1 (mm)	PN (bar)	z (mm)	⬡ (mm)
15	½	¾	⅛	54	34	79	80	25	40	5
20	¾	1	⅛	60	42	86	85	25	43	5
25	1	1 ¼	¼	72	52	110	100	25	50	6

table continued on the next page

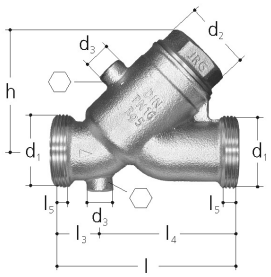
DN (mm)	GN (inch)	d2 G (inch)	d3 Rp (inch)	d4 (mm)	h1 (mm)	h2 (mm)	l1 (mm)	PN (bar)	z (mm)	⬡ (mm)
32	1 ¼	1 ½	¼	80	64	121	120	25	60	6
40	1 ½	1 ¾	¼	96	80	157	145	25	73	8
50	2	2 ⅜	¼	105	98	172	175	25	88	8
65	2 ½	3	¼	105	98	172	180	25	90	8



JRGURED pressure reducing valve gunmetal

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

DN (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 (mm)	d2 (mm)	h1 (mm)	h2 (mm)	l1 (mm)	l2 (mm)	PN (bar)	○
65	**1140.065**	**350 542 301**	1	32.000	65	187	128	340	290	145	16	4
80	**1140.080**	**350 542 401**	1	40.000	80	217	144	405	310	155	16	8
100	**1140.100**	**350 542 501**	1	55.000	100	257	166	465	350	175	16	8

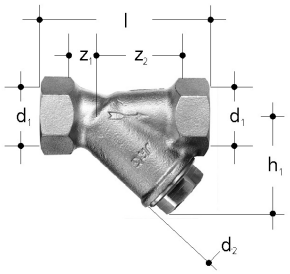


JRG Check valve gunmetal

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

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

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



JRG Slanted filter gunmetal
Female thread

- Temperature: max. 100°C (water, air, oil, etc.)
- Material: gunmetal, stainless steel, EPDM
- Connection: female thread

*as long as stock last

	DN (mm)	GN (inch)	Size (inch)	JRG Code	GF Code	SP	Weight (kg)
	10	⅜	⅜	**1812.160**	**350 872 102**	1	0.200
	15	½	½	**1812.240**	**350 870 902**	1	0.340
	20	¾	¾	**1812.320**	**350 871 002**	1	0.520
	25	1	1	**1812.400**	**350 871 102**	1	0.575
	32	1 ¼	1 ¼	**1812.480**	**350 871 202**	1	0.950
	40	1 ½	1 ½	**1812.560**	**350 871 302**	1	1.290
	50	2	2	**1812.640**	**350 871 402**	1	1.950
	65	2 ½	2 ½	**1812.720**	**350 871 502**	1	2.900
*	80	3	3	**1812.800**	**350 871 602**	1	4.400

	DN (mm)	d1 Rp (inch)	d2 G (inch)	h1 (mm)	l (mm)	PN (bar)	z1 (mm)	z2 (mm)	µm
	10	⅜	½	40	60	16	10	30	250
	15	½	½	45	65	16	10	27	250
	20	¾	¾	53	75	16	12	33	250
	25	1	1	64	90	16	15	40	250
	32	1 ¼	1 ¼	77	110	16	19	52	250
	40	1 ½	1 ½	89	120	16	20	61	250
	50	2	2	111	150	16	23	77	250
	65	2 ½	2 ½	122	180	16	22	98	560
*	80	3	3	136	210	16	27	117	560

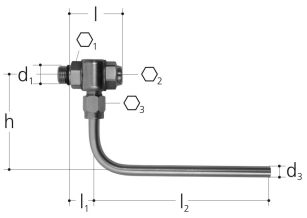


JRG Fine filter gunmetal
Female thread

- Temperature: max. 30°C
- Material: gunmetal, EPDM, plastic
- Connection: female thread

DN (mm)	GN (inch)	Size (inch)	JRG Code	GF Code	SP	Weight (kg)
25	1	1	**1830.400**	**350 690 001**	1	3.000
32	1 ¼	1 ¼	**1830.480**	**350 690 002**	1	3.150
40	1 ½	1 ½	**1830.560**	**350 690 003**	1	3.200
50	2	2	**1830.640**	**350 690 004**	1	3.450

DN (mm)	d1 Rp (inch)	d2 (mm)	d3 G (inch)	h1 (mm)	h3 (mm)	l (mm)	PN (bar)	z (mm)	µm
25	1	122	¼	370	430	130	16	48	100
32	1 ¼	122	¼	372	432	150	16	56	100
40	1 ½	122	¼	374	434	150	16	56	100
50	2	122	¼	380	440	160	16	56	100



JRG Sampling Valve gunmetal

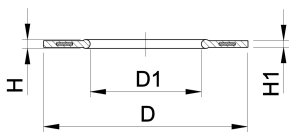
- Description: for microbiological water analysis
- Temperature: max. 90°C
- Material: gunmetal, stainless steel, EPDM
- Connection: male thread

DN (mm)	Size (inch)	GN (inch)	JRG Code	GF Code	SP	Weight (kg)
8	¼	¼	**7306.080**	**351 110 365**	1	0.190
10	⅜	⅜	**7306.160**	**351 110 500**	1	0.190

DN (mm)	d1 R (inch)	d3 (mm)	h (mm)	l (mm)	l1 (mm)	l2 (mm)	PN (bar)	⬡1 (mm)	⬡2 (mm)	⬡3 (mm)
8	¼	8	65	35	16	125	16	20	5	14
10	⅜	8	65	35	16	125	16	20	5	14

Seals
Seals





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

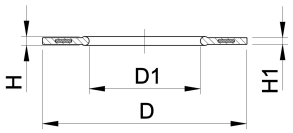
Model:

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

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







Profile Flange Gasket EPDM/FKM metric

Model:

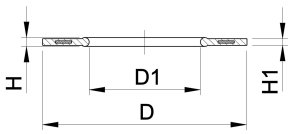
- For all metric GF Flange Adaptors
- Hardness: 70° Shore EPDM, 75° Shore FKM
- EPDM: approved acc. to DVGW Water W 270, KTW recommendation
- Centering on the inner diameter of the screw crown
- material steel insert: carbon steel
- Rubber-steel body combined with rubber profile cord ring up to d630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

di FA are the suitable inner diameters of flanges adaptors

d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	Weight (kg)	D (mm)	D1 (mm)	di FA (mm)	H (mm)	H1 (mm)
16	10	16	**748 440 705**	**749 440 705**	0.012	46	16	6 - 16	4	3
20	15	16	**748 440 706**	**749 440 706**	0.013	51	20	10 - 20	4	3
25	20	16	**748 440 707**	**749 440 707**	0.014	61	22	12 - 22	4	3
32	25	16	**748 440 708**	**749 440 708**	0.019	71	28	18 - 28	4	3
40	32	16	**748 440 709**	**749 440 709**	0.026	82	40	30 - 40	4	3
50	40	16	**748 440 710**	**749 440 710**	0.039	92	46	36 - 46	4	3
63	50	16	**748 440 711**	**749 440 711**	0.050	107	58	48 - 58	5	4
75	65	16	**748 440 712**	**749 440 712**	0.082	127	69	59 - 69	5	4
90	80	16	**748 440 713**	**749 440 713**	0.083	142	84	73 - 84	5	4
110	100	16	**748 440 714**	**749 440 714**	0.127	162	104	94 - 104	6	5
125	100	16	**748 440 715**	**749 440 715**	0.105	162	123	113 - 123	6	5
140	125	16	**748 440 716**	**749 440 716**	0.173	192	137	127 - 137	6	5
160 - 180	150	16	**748 440 717**	**749 440 717**	0.207	218	160	150 - 160	8	6
200	200	16	**748 440 719**	**749 440 719**	0.263	273	203	192 - 203	8	6
225	200	16	**748 440 720**	**749 440 720**	0.255	273	220	207 - 220	8	6
250	250	16	**748 440 721**	**749 440 721**	0.462	328	252	238 - 252	8	6
280	250	16	**748 440 722**	**749 440 722**	0.323	328	274	264 - 274	8	6
315	300	16	**748 440 723**	**749 440 723**	0.549	378	306	296 - 306	8	6
355	350	16	**748 440 724**	**749 440 724**	0.870	438	355	340 - 355	10	7
400	400	16	**748 440 725**	**749 440 725**	1.088	489	400	385 - 400	10	7
450	500	10	**748 440 726**	**749 440 726**	0.718	594	403	393 - 403	10	7
500	500	10	**748 440 727**	**749 440 727**	0.718	594	447	437 - 447	10	7
560	600	10	**748 440 728**	**749 440 728**	0.923	695	494	484 - 494	10	7
630	600	10	**748 440 729**	**749 440 729**	0.923	695	555	545 - 555	10	7
710	700	6	**748 440 730**		0.890	810	712	562 - 712	6	3
800	800	6	**748 440 731**		1.340	917	813	663 - 813	6	3
900	900	6	**748 440 732**		1.170	1017	915	765 - 915	6	3
1000	1000	6	**748 440 733**		1.360	1124	1016	866 - 1016	6	3







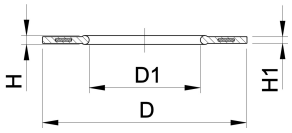
Profile flange gasket NBR Metric

Model:

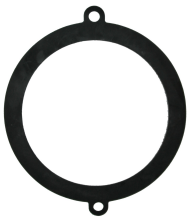
- NBR = Nitrile rubber, hardness approx. 80° Shore
- For all metric GF Flange Adaptors
- Rubber-steel body combined with rubber profile cord ring up to d630
- Rubber-steel body ideal for big dimensions (d710 - d1000)
- Approved acc. to DVGW standard DIN EN 682 for gas
- D corresponds to the centring at the inner diameter of the screw crown

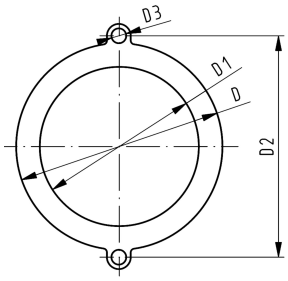
d (mm)	DN (mm)	PN (bar)	NBR Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	di FA (mm)
20	15	16	**745 440 706**	0.009	51	20	4	3	10 - 20
25	20	16	**745 440 707**	0.012	61	22	4	3	12 - 22
32	25	16	**745 440 708**	0.018	71	28	4	3	18 - 28
40	32	16	**745 440 709**	0.021	82	40	4	3	30 - 40
50	40	16	**745 440 710**	0.029	92	46	4	3	36 - 46
63	50	16	**745 440 711**	0.039	107	58	5	4	48 - 58
75	65	16	**745 440 712**	0.058	127	69	5	4	59 - 69
90	80	16	**745 440 713**	0.063	142	84	5	4	73 - 84

table continued on the next page



d (mm)	DN (mm)	PN (bar)	NBR Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	di FA (mm)
110	100	16	**745 440 714**	0.096	162	104	6	5	94 - 104
125	100	16	**745 440 715**	0.073	162	123	6	5	113 - 123
140	125	16	**745 440 716**	0.128	192	137	6	5	127 - 137
160 - 180	150	16	**745 440 717**	0.145	218	160	8	6	150 - 160
200	200	16	**745 440 719**	0.286	273	203	8	6	192 - 203
225	200	16	**745 440 720**	0.183	273	220	8	6	207 - 220
250	250	16	**745 440 721**	0.355	328	252	8	6	238 - 252
280	250	16	**745 440 722**	0.229	328	274	8	6	264 - 274
315	300	16	**745 440 723**	0.419	378	306	8	6	296 - 306
355	350	16	**745 440 724**	0.645	438	355	10	7	340 - 355
400	400	16	**745 440 725**	0.819	489	400	10	7	385 - 400
450	500	10	**745 440 726**	1.885	594	403	10	7	393 - 403
500	500	10	**745 440 727**	1.618	594	447	10	7	437 - 447
560	600	10	**745 440 728**	2.281	695	494	10	7	484 - 494
630	600	10	**745 440 729**	2.000	695	555	10	7	545 - 555
710	700	6	**745 440 733**	0.403	810	712	6	3	562 - 712
800	800	6	**745 440 734**	0.403	917	813	6	3	663 - 813
900	900	6	**745 440 735**	0.403	1017	915	6	3	765 - 915
1000	1000	6	**745 440 736**	0.403	1124	1016	6	3	866 - 1016



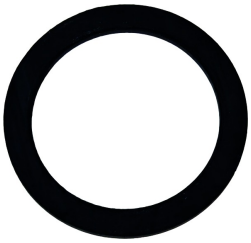


Backing flange steel metric

Model:

- Hardness: EPDM ca. 70° shore
- Flange bolt circle: PN10
- Integrated fixation aids
- Centering on the inner diameter of the screw crown

PN* (bar)	d (mm)	DN (mm)	EPDM Code	Weight (kg)	D2 (mm)	D3 (mm)	D1 (mm)	H (mm)	D (mm)
6	710	700	**748 400 330**	0.900	840	30	625	5	810
6	800	800	**748 400 331**	1.000	950	33	705	5	917
6	900	900	**748 400 332**	1.200	1050	36	805	5	1014
6	1000	1000	**748 400 333**	1.400	1160	39	890	5	1121

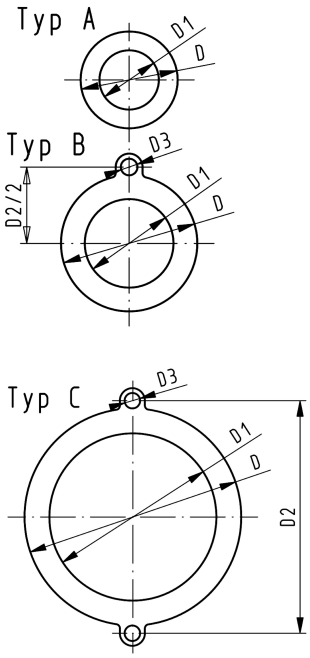


Flat gasket
EPDM

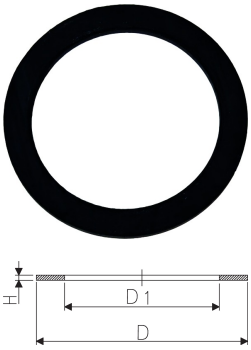
Model:

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

di FA are the suitable inner diameters of flanges adaptors



d (mm)	DN (mm)	PN (bar)	Type	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	di FA (mm)
16	10	10	A	**748 400 305**	0.004	46	16			2	6 - 26
20	15	10	A	**748 400 306**	0.012	51	20			2	10 - 30
25	20	10	A	**748 400 307**	0.004	61	25			2	15 - 35
32	25	10	A	**748 400 308**	0.008	71	32			2	22 - 42
40	32	10	A	**748 400 309**	0.013	82	40			3	30 - 50
50	40	10	A	**748 400 310**	0.016	92	50			3	40 - 60
63	50	10	A	**748 400 311**	0.018	107	63			3	53 - 73
75	65	10	A	**748 400 312**	0.029	127	71			3	61 - 81
90	80	10	A	**748 400 313**	0.035	142	84			3	74 - 94
110	100	10	B	**748 400 314**	0.051	162	104	180	18	4	94 - 114
125	100	10	B	**748 400 315**	0.044	162	119	180	18	4	109 - 129
140	125	10	B	**748 400 316**	0.068	192	134	210	18	4	124 - 144
160 - 180	150	10	B	**748 400 317**	0.090	218	155	241	22	4	145 - 165
200	200	6	C	**748 400 319**	0.180	273	195	295	22	5	185 - 205
225	200	6	C	**748 400 320**	0.140	273	216	295	22	5	206 - 226
250	250	6	C	**748 400 321**	0.210	328	250	350	22	5	240 - 260
280	250	6	C	**748 400 322**	0.151	328	273	350	22	5	263 - 283
315	300	6	C	**748 400 323**	0.237	378	305	400	22	5	295 - 315

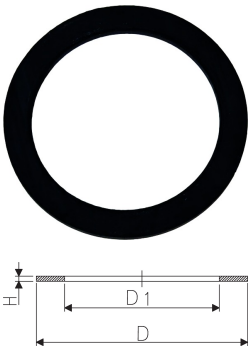


Flat gasket

Model:

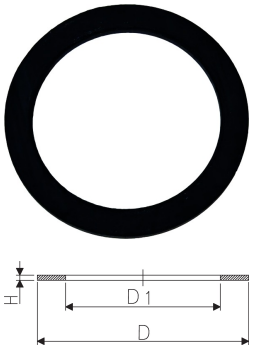
- Hardness: EPDM ca. 70° shore
- For wall inlet plugs

G (inch)	EPDM Code	SP	Weight (kg)	D (mm)	D1 (mm)	H (mm)
½	**748 400 001**	100	0.002	28	22	3



Flat gasket

d (mm)	DN (mm)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)	H (mm)	D (mm)	D1 (mm)
16	10	**161 480 664**	0	0.005	**161 480 673**	0	0.004	2	14	5



Flat gasket

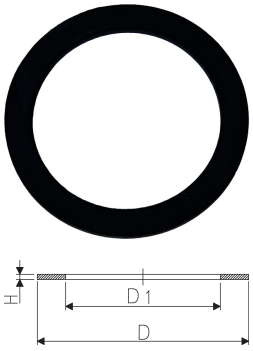
Model:

- Hardness approx. 65° Shore
- For tap connectors No. 21 55 03

Attention:

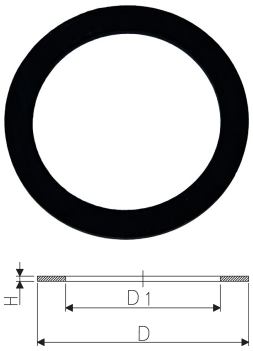
- For tap connector d16 - 1/2": 748 400 030
- For tap connector d20 - 3/4": 748 400 005
- For tap connector d25 - 1": 748 400 006

d (mm)	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)
16	**748 400 030**	0.020	18	14	2
20	**748 400 005**	0.002	24	17	2
25	**748 400 006**	0.002	30	21	3



Flat Gaskets
for tank adaptor with adjustable position stop

Size (inch)	Inch (inch)	d (mm)	FKM Code	SP	Weight (kg)	D1 (mm)	H (mm)	D (mm)
1 ½	1 1/2	40	**749 400 019**	1	0.012	50	3	71
	M113	90	**749 400 023**	1	0.062	110	4	148
	M133	110	**749 400 024**	1	0.082	125	4	168

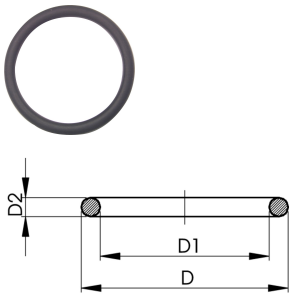


Flat gasket
For tank adaptors

Model:

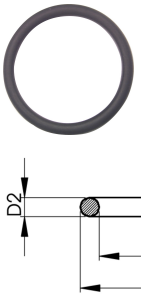
- Hardness approx. 65° Shore
- For adaptor unions

Size (inch)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)
¼	**748 400 004**	0.002			20	13	2
⅜	**748 400 005**	0.002	**749 400 005**	0.020	24	17	2
½	**748 400 006**	0.002	**749 400 006**	0.003	30	21	3
¾	**748 400 007**	0.003	**749 400 007**	0.004	38	27	3
1	**748 400 008**	0.010	**749 400 008**	0.002	44	32	3
1 ¼	**748 400 009**	0.007	**749 400 009**	0.003	55	42	3
1 ½	**748 400 010**	0.004	**749 400 010**	0.007	62	46	3
2	**748 400 011**	0.005	**749 400 011**	0.006	78	60	3
2 ½	**748 400 012**	0.010	**749 400 012**	0.009	97	75	3
3	**748 400 013**	0.011	**749 400 013**	0.011	109	88	3



O-Ring for PROGEF and SYGEF Standard IR/BCF & Socket Fusion Unions

d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	D (mm)	D1 (mm)	D2 (mm)	closest inch (inch)
32	25	**748 410 008**	0.003	**749 410 008**	39.99	32.93	3.53	1
40	32	**748 410 009**	0.003	**749 410 009**	51.33	40.65	5.34	1 ¼
50	40		0.004	**749 410 010**	57.68	46.99	5.34	1 ½
63	50	**748 410 011**	0.005	**749 410 011**	70.37	59.69	5.34	2

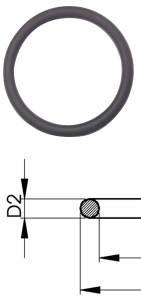


O-Ring gasket

Model:

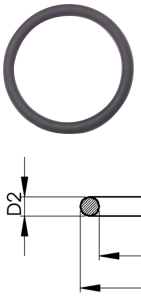
- Hardness approx. 65° Shore
- For flange adaptors No. 21 81 01 / 21 81 11, 21 80 01 (metric), 21 81 11 BS (ANSI)

d (mm)	DN (mm)	Inch (inch)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)
63	50		**748 410 013**	500	0.006	**749 410 013**	100	0.011	79.90	69.22	5.34
90	80		**748 410 015**	100	0.008	**749 410 015**	100	0.015	111.68	101.00	5.34
110	100	4	**748 410 020**		0.005	**749 410 020**	0	0.010	143.50	129.50	6.99
160	150	6	**748 410 021**		0.009				203.90	189.90	6.99
225	200		**748 410 022**	100	0.034	**749 410 022**	150	0.060	254.70	240.70	6.99



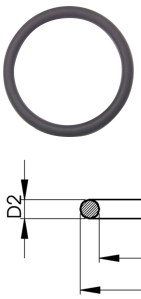
O-Ring gasket

d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	**748 410 059**	0.002	**749 410 059**	0	0.002



O-Ring gasket
Union end seal

d (mm)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)	D2 (mm)	D1 (mm)	D (mm)
20	**748 410 038**	100	0.003	**749 410 038**		0.002	2.00	23	27
25	**748 410 044**	100	0.003	**749 410 044**		0.003	2.50	28	33
32	**748 410 195**	0	0.003	**749 410 195**		0.003	2.50	36	41
40	**748 410 052**	100	0.005	**749 410 052**	100	0.003	3.50	45	52
50	**748 410 134**		0.003	**749 410 134**		0.003	3.00	52	58
63	**748 410 135**	0	0.002	**749 410 135**		0.003	3.53	66	73



O-ring EPDM/FKM

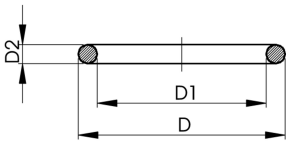
Model:

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

* For unions PVC-U, PVC-C and ABS: 21 51 01, 21 51 11, 21 53 03, 21 53 08, 21 55 04, 21 55 13, 21 55 18, 23 51 01 and 29 51 01 only

d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	closest inch (inch)
10 - 12	8	**748 410 004**	0.002	**749 410 004**	0.020	17.62	12.37	2.62	¼
16	10	**748 410 005**	0.002	**749 410 005**	0.002	20.78	15.54	2.62	⅜
20	15	**748 410 006**	0.002	**749 410 006**	0.002	27.28	20.22	3.53	½
25	20	**748 410 007**	0.002	**749 410 007**	0.002	35.23	28.17	3.53	¾
32	25	**748 410 008**	0.003	**749 410 008**	0.002	39.99	32.93	3.53	1
40	32	**748 410 009**	0.003	**749 410 009**	0.007	51.33	40.65	5.34	1 ¼
50	40	**748 410 010**	0.004	**749 410 010**	0.060	57.68	46.99	5.34	1 ½
63	50	**748 410 011**	0.005	**749 410 011**	0.003	70.37	59.69	5.34	2





O-Ring gasket

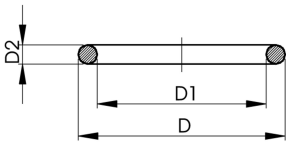
Model:

- For flange adaptors
- Hardness approx. 65° Shore

d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	closest inch (inch)
16	10	**748 410 000**	0.002	**749 410 000**	0.005	25.70	18.64	3.53	⅜
20	15	**748 410 001**	0.002	**749 410 001**	0.002	30.46	23.40	3.53	½
25	20	**748 410 007**	0.002	**749 410 007**	0.002	35.23	28.17	3.53	¾
32	25	**748 410 002**	0.003	**749 410 002**	0.003	43.16	36.10	3.53	1
40	32	**748 410 003**	0.004	**749 410 003**	0.002	54.50	43.82	5.34	1 ¼
50	40	**748 410 012**	0.004	**749 410 012**	0.008	64.02	53.34	5.34	1 ½
63	50	**748 410 013**	0.006	**749 410 013**	0.011	79.90	69.22	5.34	2
75	65	**748 410 014**	0.007	**749 410 014**	0.012	92.60	81.92	5.34	2 ½
90	80	**748 410 015**	0.008	**749 410 015**	0.015	111.68	101.00	5.34	3
110	100	**748 410 016**	0.016	**749 410 016**	0.031	134.00	120.20	6.99	4
125	100	**748 410 017**	0.018	**749 410 017**	0.036	149.90	135.90	6.99	
140	125	**748 410 018**	0.020	**749 410 018**	0.039	165.80	151.80	6.99	5
160	150	**748 410 019**	0.025	**749 410 019**	0.044	184.15	170.17	6.99	6
200	200	**748 410 163**	0.029	**749 410 163**	0.048	235.60	221.60	6.99	8
225	200	**748 410 022**	0.034	**749 410 022**	0.060	254.70	240.70	6.99	8
280	250	**748 410 182**	0.036	**749 410 182**	0.066	280.10	266.10	6.99	9
250	250	**748 410 173**	0.042	**749 410 173**	0.076	305.50	291.50	6.99	10
315	300	**748 410 174**	0.047	**749 410 174**	0.083	356.30	342.30	6.99	12

Seals SF





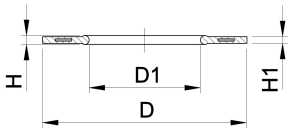
O-Ring cleaned / bagged

Model:

- Cleaned (washing machine)
- Silicone-free / paint-compatible (according VDMA test)
- Hardness approx. 65° Shore

d (mm)	DN (mm)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)
16	10	**748 413 000**	2	0.002	**749 413 000**	2	0.002	26	19	3.53
20	15	**748 413 001**	2	0.002	**749 413 001**	2	0.002	30	23	3.53
25	20	**748 413 007**	1	0.002	**749 413 007**	2	0.002	35	28	3.53
32	25	**748 413 002**	2	0.002	**749 413 002**	2	0.003	43	36	3.53
40	32	**748 413 003**	2	0.004	**749 413 003**	2	0.007	55	44	5.34
50	40	**748 413 012**	2	0.005	**749 413 012**	2	0.008	64	53	5.34
63	50	**748 413 013**	2	0.006	**749 413 013**	2	0.011	80	69	5.34
75	65	**748 413 014**	2	0.007	**749 413 014**	2	0.012	93	82	5.34
90	80	**748 413 015**	2	0.008	**749 413 015**	2	0.015	112	101	5.34
110	100	**748 413 016**	2	0.016	**749 413 016**	2	0.031	134	120	6.99
125	100	**748 413 017**	2	0.018	**749 413 017**	2	0.036	149	136	6.99
140	125	**748 413 018**	2	0.020	**749 413 018**	2	0.039	166	152	6.99
160	150	**748 413 019**	2	0.025	**749 413 019**	2	0.047	191	177	6.99
200	200	**748 413 163**	2	0.030	**749 413 163**	2	0.056	136	222	6.99
225	200	**748 413 022**	2	0.060	**749 413 022**	2	0.060	255	241	6.99
250	250	**748 413 182**	2	0.090	**749 413 182**	2	0.100	280	266	6.99
280	250	**748 413 173**	2	0.144	**749 413 173**	2	0.144	305	292	6.99
315	300	**748 413 174**	2	0.051	**749 413 174**	2	0.051	356	342	6.99





Profile flange gasket, metric
EPDM / FKM, cleaned / bagged

Model:

- Cleaned (washing machine), individually bagged
- Not completely silicone-free/paint-compatible (according VDMA test)
- For all metric GF Flange Adaptors
- Profile Gasket with carbon steel insert (type G-ST-P/K)
- Hardness: 70° shore **EPDM**, 75° shore **FKM**

di FA are the suitable inner diameters of flanges adaptors

d (mm)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	16	**748 441 705**	0	0.007	**749 441 705**	0	0.007
20	15	16	**748 441 706**	0	0.008	**749 441 706**	0	0.008
25	20	16	**748 441 707**	1	0.011	**749 441 707**	1	0.019
32	25	16	**748 441 708**	1	0.020	**749 441 708**	1	0.020
40	32	16	**748 441 709**	1	0.015	**749 441 709**	1	0.018
50	40	16	**748 441 710**	1	0.029	**749 441 710**	1	0.022
63	50	16	**748 441 711**	1	0.046	**749 441 711**	1	0.055
75	65	16	**748 441 712**	1	0.053	**749 441 712**	1	0.076
90	80	16	**748 441 713**	1	0.063	**749 441 713**	1	0.086
110	100	16	**748 441 714**	1	0.106	**749 441 714**	1	0.123
125	100	16	**748 441 715**	1	0.158	**749 441 715**	1	0.158
140	125	16	**748 441 716**	1	0.124	**749 441 716**	1	0.177
160 - 180	150	16	**748 441 717**	1	0.147	**749 441 717**	1	0.153
200	200	16	**748 441 719**	1	0.294	**749 441 719**	1	0.263
225	200	16	**748 441 720**	1	0.174	**749 441 720**	1	0.181
250	250	16	**748 441 721**	1	0.410	**749 441 721**	1	0.410
280	250	16	**748 441 722**	1	0.226	**749 441 722**	1	0.226
315	300	16	**748 441 723**	1	0.334	**749 441 723**	1	0.334

d (mm)	DN (mm)	di FA (mm)	H1 (mm)	D1 (mm)	H (mm)	D (mm)
16	10	6 - 16	3	16	4	46
20	15	10 - 20	3	20	4	51
25	20	12 - 22	3	22	4	61
32	25	18 - 28	3	28	4	71
40	32	30 - 40	3	40	4	82
50	40	36 - 46	3	46	4	92
63	50	48 - 58	4	58	5	107
75	65	59 - 69	4	69	5	127
90	80	73 - 84	4	84	5	142
110	100	94 - 104	5	104	6	162
125	100	113 - 123	5	123	6	162
140	125	127 - 137	5	137	6	192
160 - 180	150	150 - 160	6	160	8	218
200	200	192 - 203	6	203	8	273
225	200	207 - 207	6	220	8	273
250	250	238 - 250	6	252	8	328
280	250	264 - 274	6	274	8	328
315	300	296 - 296	6	306	8	378

Seal sets

d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	**161 482 883**	0.005	**161 482 893**	0.010
25	20	**161 482 884**	0.005	**161 482 894**	0.008
32	25	**161 482 885**	0.006	**161 482 895**	0.011
40	32	**161 482 886**	0.008	**161 482 896**	0.024
50	40	**161 482 887**	0.018	**161 482 897**	0.035
63	50	**161 482 888**	0.017		

Seal sets

d (mm)	DN (mm)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
75	65	**161 482 968**	1	0.028	**161 482 974**	1	0.045
90	80	**161 482 969**	1	0.042	**161 482 975**	1	0.065
110	100	**161 482 970**	1	0.052	**161 482 976**	1	0.495

Seal sets

d (mm)	DN (mm)	FKM Code	Weight (kg)
10	6	**161 482 984**	0.005

Seal sets

d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
40	32	**161 484 875**	0.025	**161 484 887**	0.025
50	40	**161 484 876**	0.030	**161 484 888**	0.030
63	50	**161 484 877**	0.045	**161 484 889**	0.045
75	65	**161 484 878**	0.014	**161 484 890**	0.012
90	80	**161 484 879**	0.040	**161 484 891**	0.040
110	100	**161 484 880**	0.018	**161 484 892**	0.018
140	125	**161 484 881**	0.050	**161 484 893**	0.033
160	150	**161 484 882**	0.060	**161 484 894**	0.034
225	200	**161 484 883**	0.040	**161 484 895**	0.040
280	250	**161 484 884**	0.069	**161 484 896**	0.069
315	300	**161 484 885**	0.071	**161 484 897**	0.071

Seal sets

d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
25	20	**161 484 942**	0.011	**161 484 952**	0.011
32	25	**161 484 943**	0.014	**161 484 953**	0.014
40	32	**161 484 944**	0.014	**161 484 954**	0.018
50	40	**161 484 945**	0.029	**161 484 955**	0.046
63	50	**161 484 946**	0.024	**161 484 956**	0.062

INSTAFLEX

Machines and tools



Machines and tools		Page
	Electrofusion	142
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	Tools for compression joints	154



INSTAFLEX Electro fusion control unit HWSG-3 230V

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

	d-d (mm)	Code	SP	Weight (kg)	Dimensions (mm)	Size (inch)
	16 - 110	**761 069 021**	1	4.142	294	324
*	16 - 110	**761 069 020**	1	4.047	294	324



INSTAFLEX Electro fusion control unit HWSG-3 110V

Including welding cable for fittings without tool case, primary cable 110V, primary cable 230V
Primary cable (3m) with Euro standard plug EU-Standard plug
Technical data: voltage 110V and 230V variable, power output max. 1500W
Technical specifications: frequency 47/65Hz, protection rate IP54, incl. power-supply cable 110V and 230V (3m) with EU-Standard plug
* on request

	d-d (mm)	Code	SP	Weight (kg)	Dimensions (mm)	Size (inch)
*	16 - 110	**761 069 015**	1	11.500	294	324



INSTAFLEX Primary cable PUR 110v

* on request

	Code	SP	Weight (kg)	Length (m)
*	**761 069 012**	1	0.400	3



INSTAFLEX Primary cable PUR 230V

* on request

	Code	SP	Weight (kg)	Length (m)
*	**761 069 013**	1	0.380	3



INSTAFLEX Welding cable PUR Angled plug

Matches to HWSG-3 - 110V
* on request

	d (mm)	Code	SP	Weight (kg)	Length (m)
*	16 - 110	**761 069 016**	1	0.264	3



INSTAFLEX Welding cable PVC 230V / Angled plug

Matches to HWSG-3 - 230V

d (mm)	Code	SP	Weight (kg)	Length (m)
16 - 110	**761 069 006**	1	0.246	3



INSTAFLEX Welding cable PVC 230V / Straight plug

Matches to HWSG-3 - 230V

d (mm)	Code	SP	Weight (kg)	Length (m)
16 - 110	**761 069 001**	1	0.255	3



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

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

	Code	SP	Weight (kg)	Length (m)
*	**761 069 008**	1	1.753	8

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



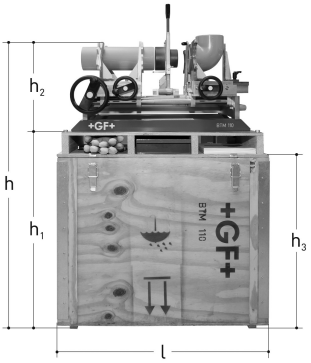
The MSA 2 MULTI automatic electro fusion unit combines light weight and high efficiency, thanks to its inverter technology. The unit is suitable for welding PE, PP, INSTAFLEX PB d125-225, Fuseal d1 1/2"-12" and PPro-Seal 1/2"-3".
It is robust, safe and ergonomic.
All is meant to simplify the job: the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

Technical Data:

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

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

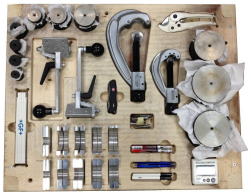




INSTAFLEX Socket fusion machine BTM 110

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

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



INSTAFLEX Accessories
To socket fusion machine BTM 110

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

Code	Weight (kg)
761 066 895	10.000



INSTAFLEX Heating element
230V

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

	d-d (mm)	Code	SP	Weight (kg)
	16 - 63	**761 066 804**	1	1.639
*	16 - 63	**761 066 751**	1	1.646



INSTAFLEX Heating element 30°

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

	D (mm)	Code	SP	Weight (kg)
*	16 - 50	**761 066 877**	1	1.550



Support

As a storage possibility for Handheld heating element

Code	SP	Weight (kg)
761 066 801	1	0.986

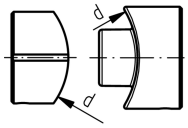


INSTAFLEX Heating bushes

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

d (mm)	Code	SP	Weight (kg)
16	**761 066 756**	1	0.189
20	**761 066 757**	1	0.284
25	**761 066 758**	1	0.366
32	**761 066 759**	1	0.369
40	**761 066 760**	1	0.321
50	**761 066 761**	1	0.460
63	**761 066 762**	1	0.609
75	**761 066 881**	1	1.108
90	**761 066 882**	1	1.740
110	**761 066 883**	1	2.450



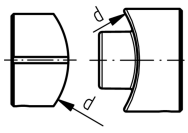


INSTAFLEX Heating bushes
For weld-in saddle PB

d = Pipe dim.

d (mm)	Code	SP	Weight (kg)	Remarks
40	**761 068 027**	1	0.129	Drill bitt d20-d32
50	**761 068 028**	1	0.156	Drill bitt d20-d32
63	**761 068 029**	1	0.199	Drill bitt d20-d32
75	**761 068 030**	1	0.216	Drill bitt d20-d32
90	**761 068 031**	1	0.272	Drill bitt d20-d32
110	**761 068 032**	1	0.298	Drill bitt d20-d32





INSTAFLEX Heating bushes
For weld-in saddle PB

For heating element straight
d = Pipe dim.

d (mm)	Code	SP	Weight (kg)	Remarks
125	**761 068 033**	1	0.376	Drill bitt d20-d32
125	**761 068 034**	1	0.510	Drill bitt d40-d50
160	**761 068 035**	1	0.568	Drill bitt d20-d32
160	**761 068 036**	1	0.658	Drill bitt d40-d50
225	**761 068 037**	1	1.013	Drill bitt d20-d32
225	**761 068 038**	1	1.019	Drill bitt d40-d50



INSTAFLEX Drill bit
For weld-in saddle PB

d (mm)	Code	SP	Weight (kg)
20 - 32	**761 068 039**	1	0.132
40 - 50	**761 068 040**	1	0.232



INSTAFLEX Fuseal-template
For electro fusion (HWS)

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

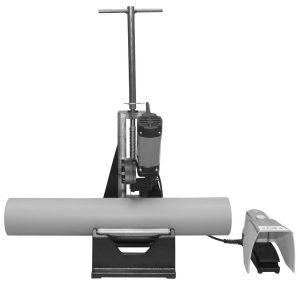


INSTAFLEX Heating element
Complete set / 230V

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

	d-d (mm)	Code	SP	Weight (kg)
	16 - 63	**761 066 802**	1	11.679
*	16 - 63	**761 066 750**	1	11.735

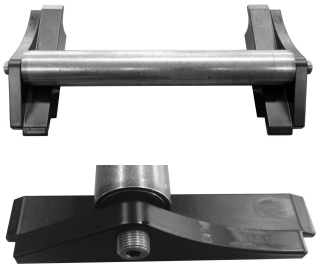




INSTAFLEX Pipe cutting machine CMB 225

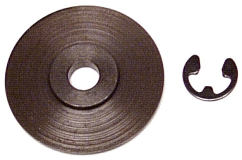
State-of-the art cutting machine for polyolefin pipes in diameter d110-d230.
Scope of delivery: Cutting machine CMB 225 (1 pcs.), Machines cutter CW 225 (3 pcs.), Pipe brackets PS 225 (4 pcs.), Wrench for cutter-change (1 pcs.)

Tension	Code	Weight (kg)
110V	**761 070 322**	38.000
220V	**761 070 319**	38.000



INSTAFLEX Cutting insert
For cutting machine CMB 225

d (mm)	Code	SP	Weight (kg)
50 - 110	**761 070 323**	1	2.000



Replacement cutting wheels

For plastic pipe cutter

d-d (mm)	Article	Code	SP	Weight (kg)
10 - 63	SR 63 max. s=7,2 mm	**790 109 011**	1	0.004
50 - 110	SR 110/160 max. s=12,7 mm	**790 109 012**	1	0.015
110 - 160	SR 160 max. s=19,0 mm	**790 109 013**	1	0.023



INSTAFLEX Machines cutter CW 225

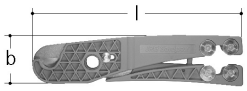
Replacement cutting wheel for cutting machine CMB 225

Cutting depth (mm)	Code	SP	Weight (kg)
26	**761 070 320**	1	0.240



INSTAFLEX Pipe shears

d-d (mm)	Code	SP	Weight (kg)
16 - 25	**760 853 279**	1	0.295



JRG Sanipex Multi purpose cutter plastic

- Material: steel, plastic

d-d-d (mm)	GF Code	SP	Weight (kg)	b (mm)	l (mm)
12 - 16 - 20	**355 632 424**	1	0.150	45	200



PPC Plastic pipe cutter

For cutting plastic pipes d10 - d160

d (mm)	Article	Code	SP	Weight (kg)
10 - 63	PPC 63, s max. = 7.2mm	**790 109 001**	1	0.865
50 - 110	PPC 110, s max. = 12.7mm	**790 109 002**	1	1.624
110 - 160	PPC 160, s max. = 19.0mm	**790 109 003**	1	2.212



INSTAFLEX Pipe support For cutting machine CMB 225

Pipe support for cutting machine CMB 225

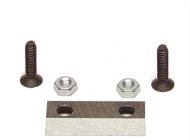
d (mm)	Code	SP	Weight (kg)	Type
110 - 225	**761 070 321**	1	1.500	PS 225
50 - 110	**761 070 324**		1.400	PS 110



Chamfering tools

- Chamfering tool (15° bevel) for plastic pipes. Fast and reliable adjustment to the different pipe diameters and wall thickness.

d-d (mm)	description	Code	Weight (kg)
25 - 110	Special version for INSTAFLEX PB	**790 309 005**	1.100
25 - 110	Standard version	**790 309 006**	1.100
25 - 200	Standard version	**790 309 003**	1.300
63 - 400	Standard version	**790 309 004**	2.600



Spare blades for Chamfering tool

d-d (mm)	Code	SP	Weight (kg)
25 - 110	**761 066 795**	1	0.016



Rotary Peeler RS

Note:

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

* Suitable for PB

	Article	d (mm)	Code	Weight (kg)
*	RS 125	125	**790 136 007**	3.895
*	RS 225	225	**790 136 012**	3.935
*	RS 315	315	**790 136 015**	5.380



INSTAFLEX Template
For socket fusion (HMS)

To mark the coupler

d-d (mm)	Code	SP	Weight (kg)
16 - 63	**761 066 800**	1	0.014



Tangit KS Cleaner

- Special cleaner for plastic fusion connections in the materialof PE, PP, PB, PVDF, ECTFE and PVC-U
- Suitable for Tangit Rapid. Must not be used for solvent cementing
- DVGW approved
- DW 5290 BR 0464

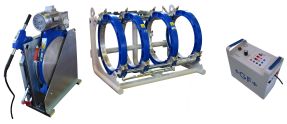
Size	Code	Weight (kg)
1 liter	**799 298 023**	0.872

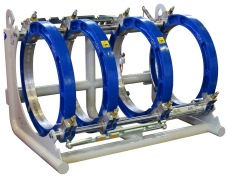


IM 315
Butt fusion machine for industrial applications

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

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













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

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

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

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



Type 400 Reduction clamping inserts

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

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

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



Set of replacement blades for planer

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

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

Tools for compression joints



INSTAFLEX Assembly tongs

*as long as stock last

	d (mm)	Code	SP	Weight (kg)
*	16 - 20	**760 853 743**	1	0.503



INSTAFLEX Rached spanner

For tightening and loosening of compression fittings d16 and d20

d (mm)	SW (mm)	Code	SP	Weight (kg)
16	24	**760 854 916**	1	0.280
20	27	**760 854 917**	1	0.321



INSTAFLEX Ball-head socket wrench
With crossbar handle

d-d (mm)	Code	SP	Weight (kg)	SW (mm)
16 - 63	**761 066 843**	2	0.038	3
75 - 110	**761 066 844**	2	0.038	4



INSTAFLEX Spanner

Tool to change the heating bushes

SW (mm)	Code	SP	Weight (kg)
6	**760 854 906**	1	0.038



INSTAFLEX Ball-head socket wrench
With crossbar handle

d-d (mm)	Code	SP	Weight (kg)	SW (mm)
16 - 63	**761 066 845**	5	0.004	3
75 - 110	**761 066 846**	5	0.007	4



INSTAFLEX Template
For electro fusion (HWS)

d-d (mm)	Code	SP	Weight (kg)
16 - 110	**761 069 602**	1	0.065



Tempil sticks

Temperature (°C)	Code	SP	Weight (kg)	Color
253	**761 066 796**	1	0.012	yellow
274	**761 066 797**	1	0.014	red



Marker

For plastic pipes and fittings

Type	Code	SP	Weight (kg)
Black	**761 070 325**	10	0.010



INSTAFLEX Gloves

Code	SP	Weight (kg)
761 066 799	1	0.115



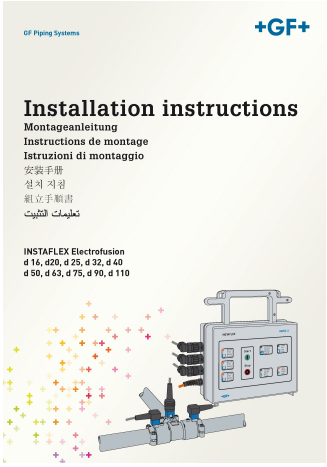
Timer with 2 stop times

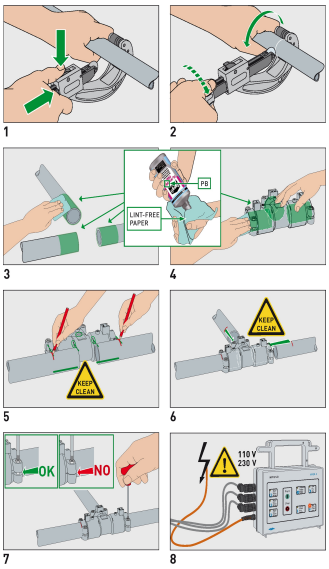
Code	SP	Weight (kg)
790 114 028	1	0.088

GF Piping Systems

Training documents







Technical manuals jointing technologies

This document is digital available on our website
For high resolution pictures for your seminar or your presentation, please ask your local sales agent

Description	Code	SP	d (mm)	Size
Electro fusion HWS	**760 809 081**	10	16-110	DIN A5
Electro fusion	**760 809 084**	1200	125, 160, 225	DIN A5
Socket fusion HMS	**760 809 085**	10	16-110	DIN A5
System valve BTV 2	**760 809 086**	10	20-63	DIN A5



Current product range INSTAFLEX / iFIT

This document is digital available on our website

Size	Code	SP
DIN A4	**760 809 100**	10



Jointing technology sample

Compression joint / electro fusion / socket fusion

d (mm)	Code	SP	Weight (kg)
	760 855 078	1	0.780

iFIT



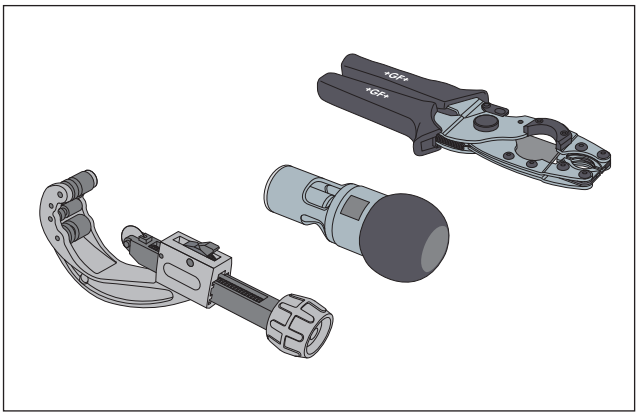
System overview iFIT

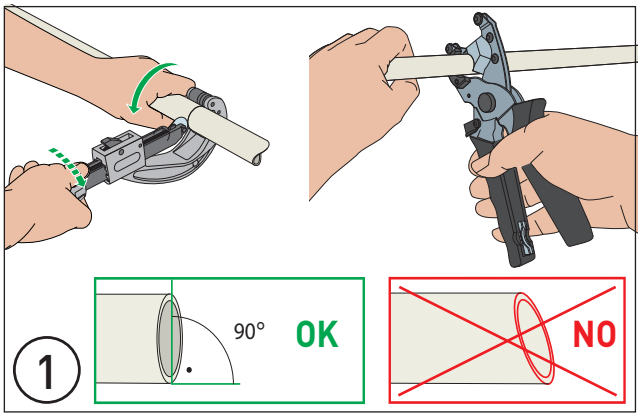
iFIT – the innovative push fit jointing system for heating and plumbing with a safety check you can see and hear. Never before have polybuten and multilayer pipes been so easy, fast and safe to install in the dimensions 16, 20, 25 and 32.

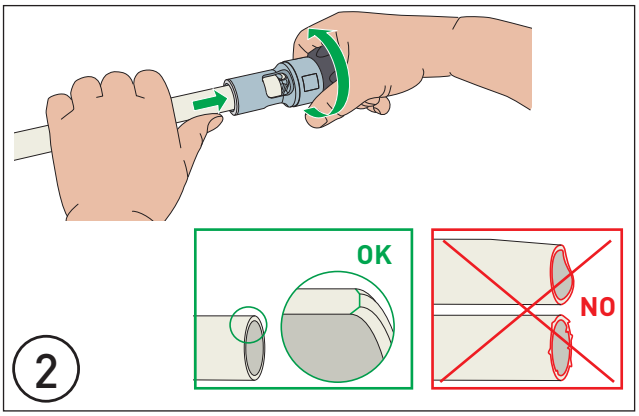


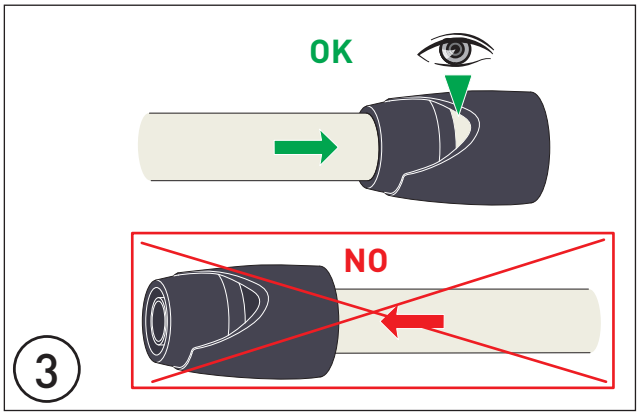
iFIT		Page
	Pipes	170
	Accessories for pipes	173
	Adapters	174
	Modules	175
	Valves	180
	Transition modules	186
	Outlet joints	191
	Accessories for outlet joints	195
	WC connection modules	198
	Manifolds	199
	Heating assortment	201
	Tools	202

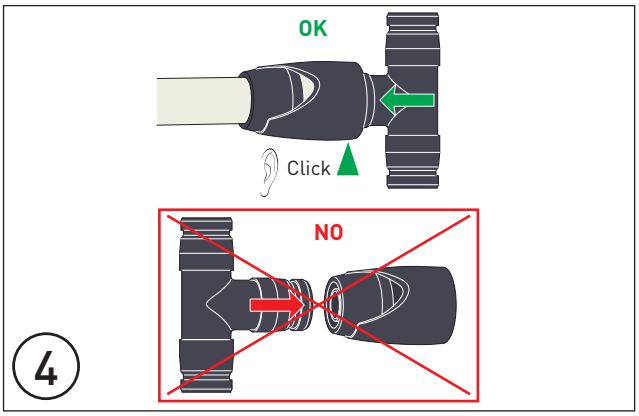
Working with iFIT

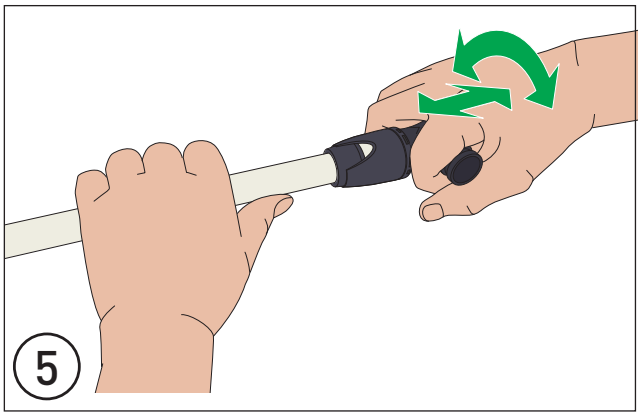


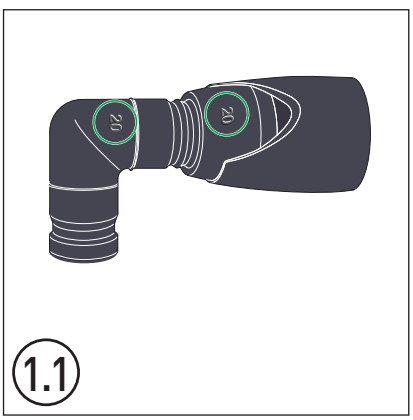


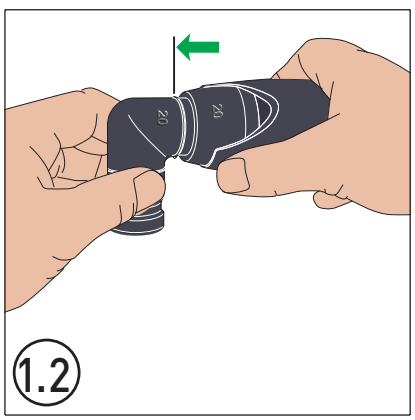


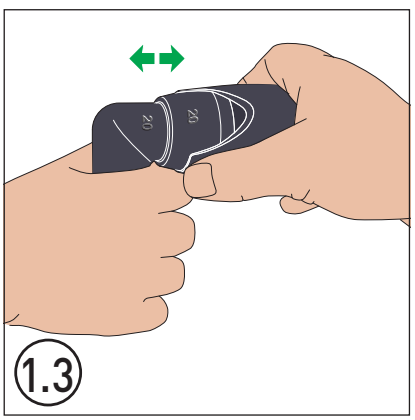


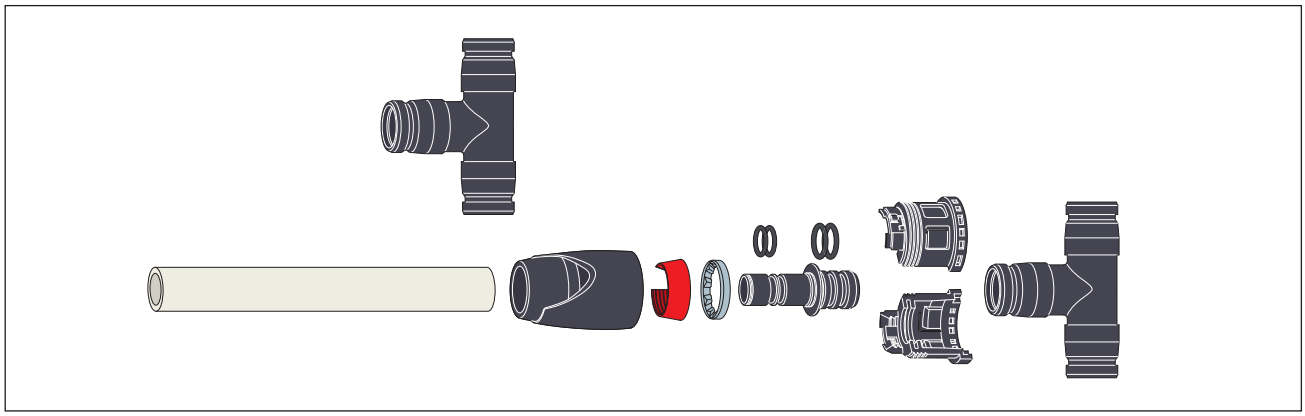


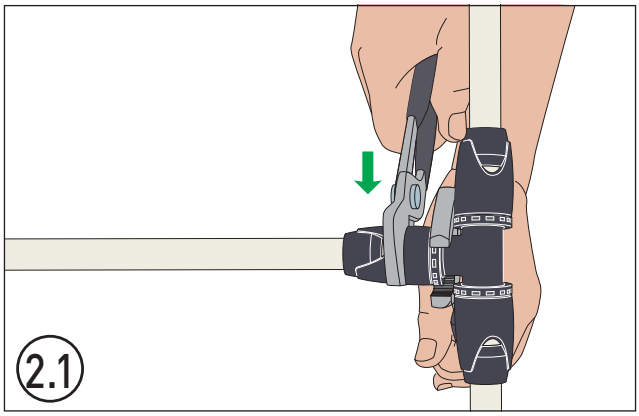


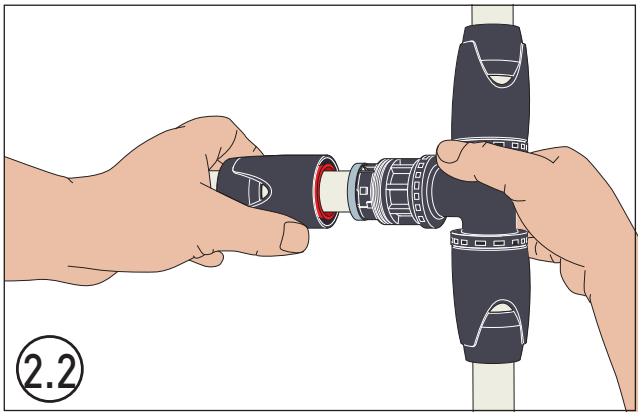


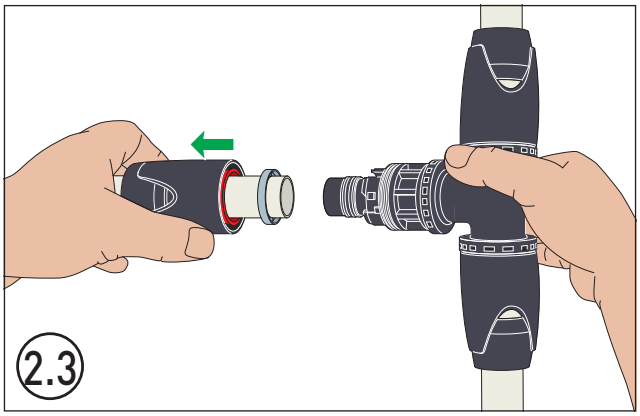


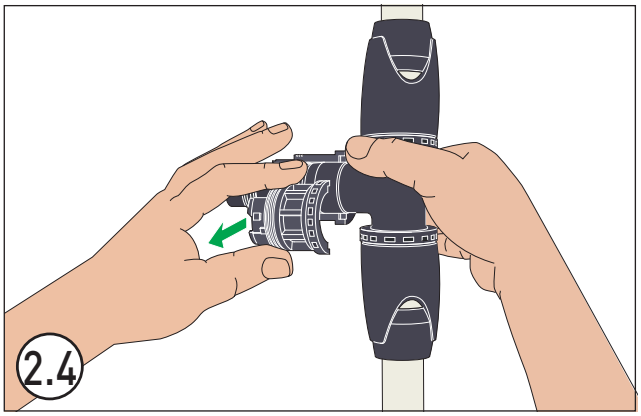


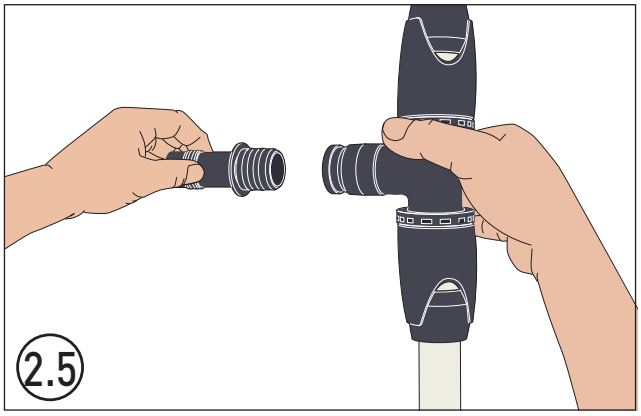


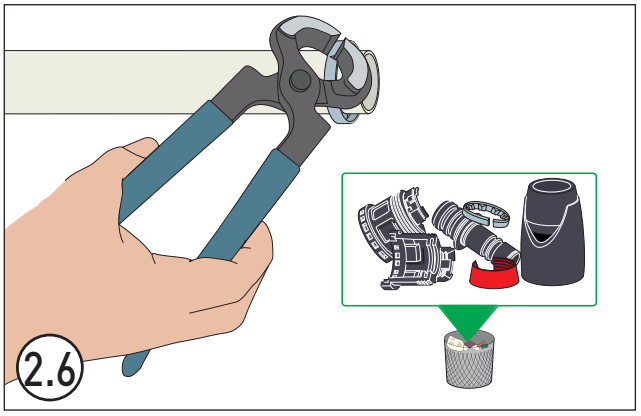

2.1


2.2


2.3


2.4


2.5


2.6

Approvals iFIT

+ LAND-BASED

DVGW
Deutscher Verein des Gas- und Wasserfaches e.V., Germany

SVGW
Schweizerische Verein des Gas- und

ÖVGW
Östereichische Vereinigung für das Gas- und Wasserfach, Austria

VKF
Vereinigung Kantonaler Feuer-versicherungen, Switzerland

kiwa

aTg (BCCA)
Belgian Construction Certification Association

KOMO
KOMO N. V., Netherlands Postbus 70

WRAS
Water Regulation Advisory Scheme, England

Approvals iFIT

MARINE

ABS
American Bureau of Shipping

RINA
Royal Institution of Naval Architects, England

DNV-GL
Det Norske Veritas- Germanischer Lloyd, Norway

BV
Bureau Veritas, France

LR
Lloyd's Register, England

RMROS
Russian Maritime Register of

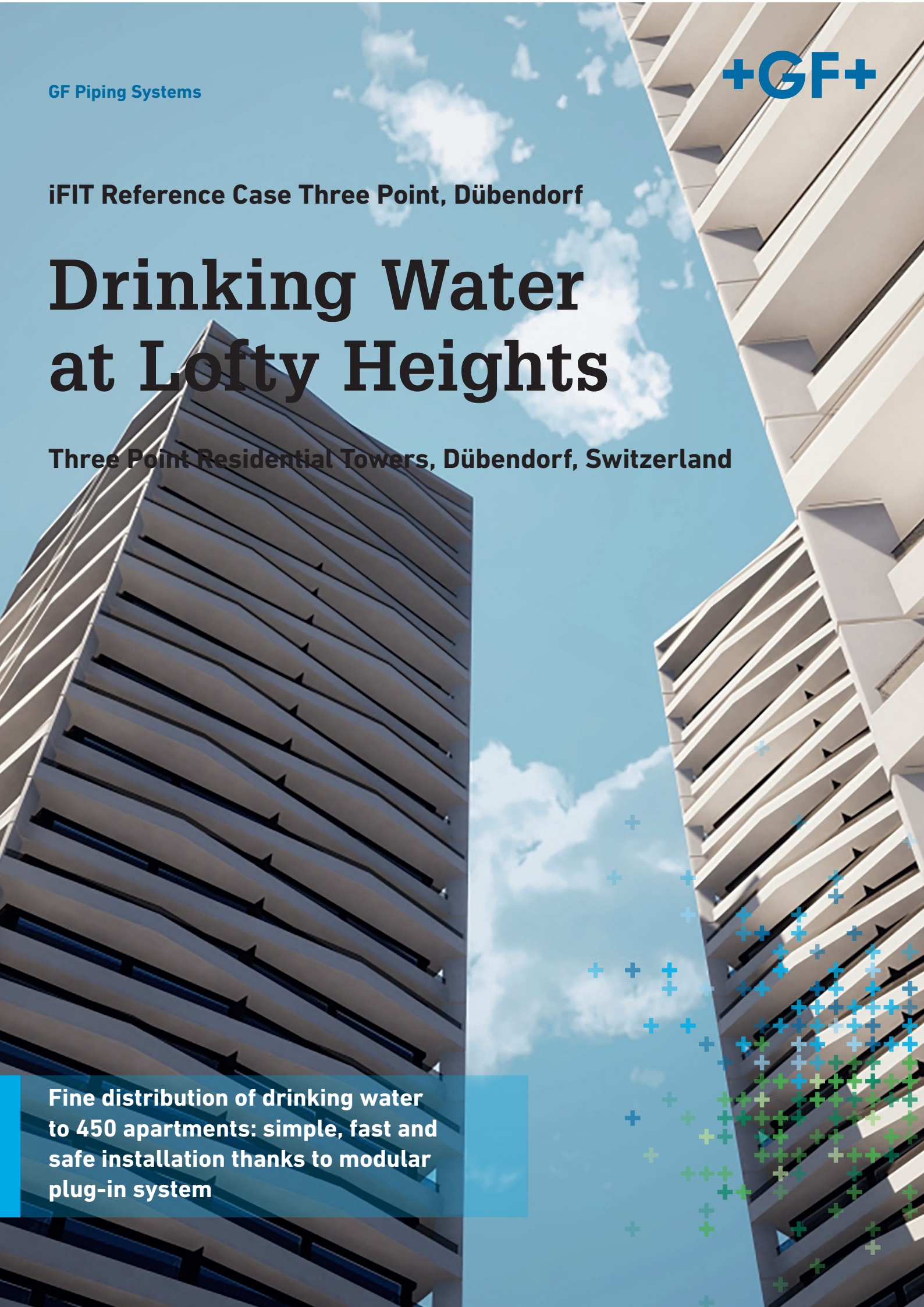
GF Piping Systems

+GF+

iFIT Reference Case Three Point, Dübendorf

Drinking Water at Lofty Heights

Three Point Residential Towers, Dübendorf, Switzerland



Fine distribution of drinking water to 450 apartments: simple, fast and safe installation thanks to modular plug-in system

Superb prospects in Switzerland‘s tallest residential towers

In Dübendorf, on the outskirts of the metropolis of Zurich, three residential towers are reaching for the skies. The tallest measures 115 meters and comprises 38 floors. Together with the other two towers, with 34 and 36 stories, the elegant skyscrapers accommodate around 450 condominiums. All were sold before completion (scheduled for early 2024). For the fine distribution of drinking water in the comfortable apartments, the total contractor ADT INNOVA Construction AG went for the patented plug-in system iFIT.

Background to the project

Construction projects are having to be realized at an ever-increasing speed and more cost-effectively than ever before – without compromising on quality, of course. To deal with the thousands of interfaces in the large-scale construction project, the planners used BIM (Building Information Modeling). The building technology is also integrated into the digital planning concept. Implementation, however, is still a matter of craftsmanship. Fulfilling the goals of speed and quality calls for smart products that help achieve fault-free installations within the shortest possible time.

Chosen technical solution

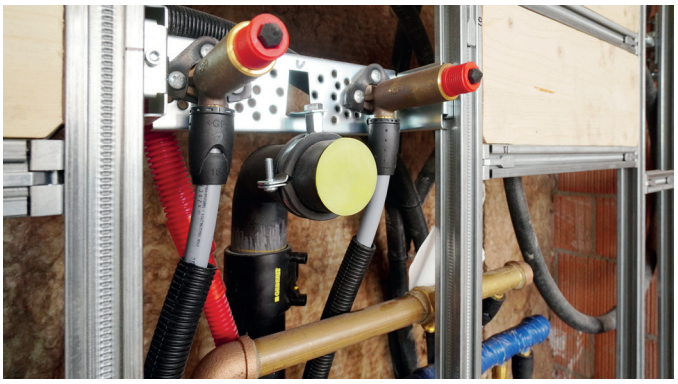
The patented system iFIT from GF Piping Systems with sheathed pipes made of flexible and durable polybutene was chosen to flush and finely distribute the drinking water to the consumption points in the apartments. Two pipe dimensions can be connected with just one module (16/20 or 25/32). This reduces the otherwise usual range for installations by around 50%, creating huge benefits for storage and logistical arrangements on the construction site. Some 29 km of polybutene pipes, 6,900 modules and 15,000 adapters have been installed in the three residential towers.

Improvements achieved

A key factor in the choice of iFIT was the simplicity of system installation. Even employees without full training achieved a professional installation without any problems after a brief induction by the GF Piping Systems Building Technology Sales Department. Maik Ohff, installation manager of the building services engineering company E.O. Knecht AG, confirms: «iFIT is easy to handle. No electricity and only a few tools are needed for installation. The pipe is easy to move and replace. Besides, the program is clearly arranged and offers everything that›s necessary.»



The iFIT pipes (black) are fitted for the drinking water supply to the apartments.



The adapter module technology is easy and safe to use.

Benefits of iFIT

- **Simple and quick installation by hand, requires little training, few tools, and can be processed without electricity**
- **High operational reliability: resistance to corrosion and calcification, secure connection thanks to viewing window in the adapter and clicking noise on connection**
- **Economical and sustainable thanks to 50% fewer products, low stock levels, lean logistics on the construction site and reusability of modules**

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Phone +41 (0)52 631 11 11
mail@georgfischer.com
www.gfps.com

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Technical Data

Pressure loss chart iFIT (10 °C)

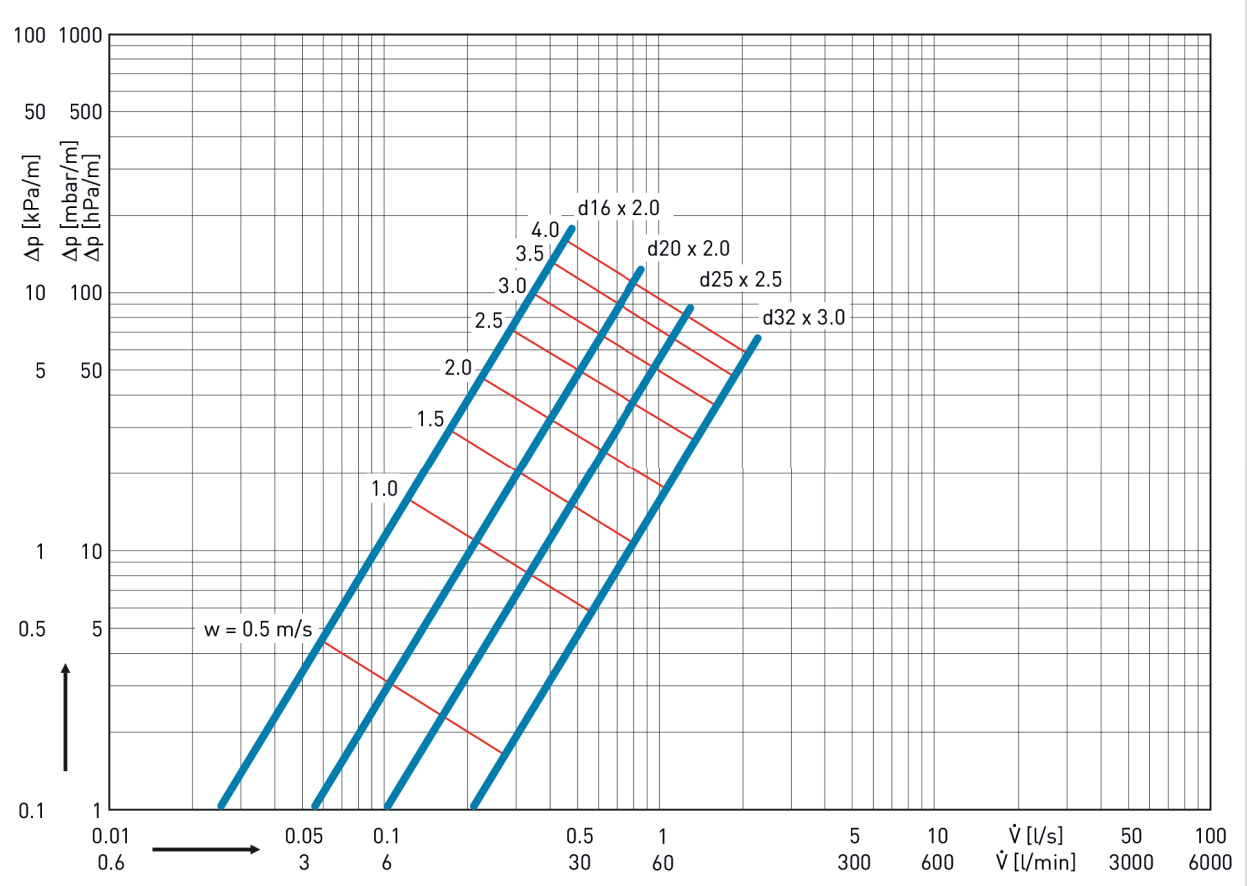
Pressure loss chart for iFIT PB- and ML pipes:

Pipe friction loss in relation to flow rate

Basis of calculation:	
Water temperature	= 10°C
Surface roughness k	= 0.007 mm
Viscosity	= 0.00131 Pa·s
Density ρ	= 999.70 kg/m³

Recommended flow velocity according SVGW guideline W3/2013:

- max. 4.0 m/s for single outlet lines
- max. 3.0 m/s for apparatus lines
- max. 3.0 m/s for floor distribution lines
- max. 2.0 m/s for distribution lines



Technical Data

Pressure loss chart iFIT (60 °C)

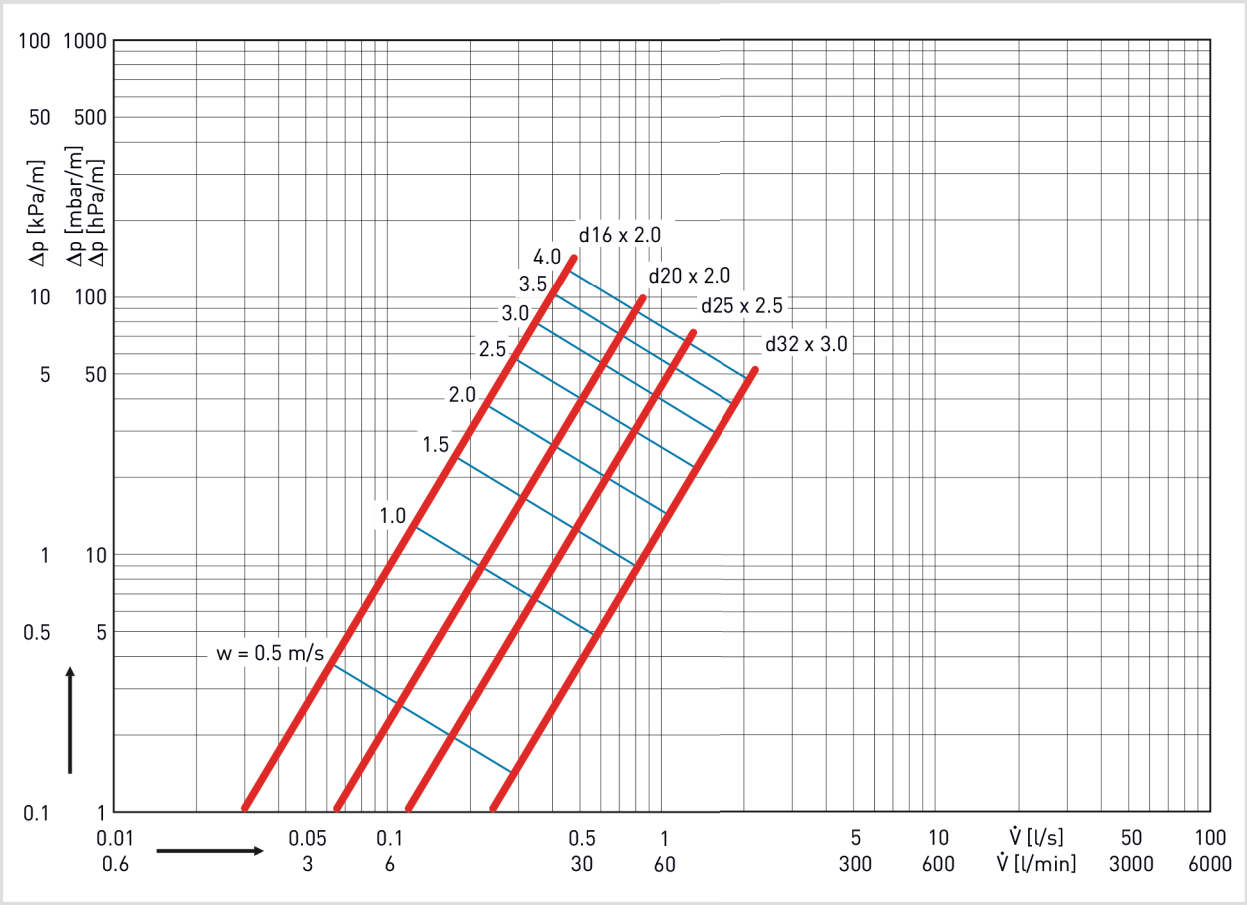
Pressure loss chart for iFIT PB- and ML pipes:

Pipe friction loss in relation to flow rate

Basis of calculation:	
Water temperature	= 60°C
Surface roughness k	= 0.007 mm
Viscosity	= 0.00013 Pa·s
Density ρ	= 983.19 kg/m³

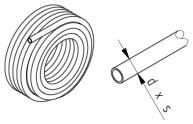
Recommended flow velocity according SVGW guideline W3/2013:

max. 4.0 m/s for single outlet lines
max. 3.0 m/s for apparatus lines
max. 3.0 m/s for floor distribution lines
max. 2.0 m/s for distribution lines



Pipes





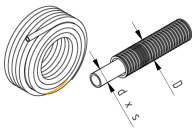
iFIT Polybutene pipe polybutene

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

*as long as stock last

	d (mm)	s (mm)	Code	SP	Weight (kg)	L (m)	PN (bar)	PN at 20°C (bar)
	16	2.0	**762 101 126**	1	0.088	60	10	16
*	16	2.0	**762 101 201**	1	0.088	420	10	16
	20	2.0	**762 101 127**	1	0.115	60	10	16
	25	2.5	**762 101 128**	1	0.178	30	10	16





iFIT Polybutene pipe polybutene Protected

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

d (mm)	s (mm)	Code	SP	Weight (kg)	D (mm)	L (m)	PN (bar)	PN at 20°C (bar)
16	2.0	**762 101 012**	1	0.164	25	60	10	16
20	2.0	**762 101 013**	1	0.207	30	60	10	16
25	2.5	**762 101 011**	1	0.286	34	30	10	16



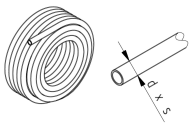


iFIT Polybutene pipe polybutene In bars, 5.0m

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

d (mm)	s (mm)	Code	SP	Weight (kg)	L (m)	PN (bar)	PN at 20°C (bar)
16	2.0	**762 101 160**	9	0.088	5	10	16
20	2.0	**762 101 161**	9	0.115	5	10	16
25	2.5	**762 101 162**	10	0.178	5	10	16
32	3.0	**762 101 163**	4	0.272	5	10	16



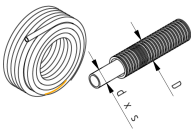


iFIT Multilayer pipe PE-RT

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

d (mm)	s (mm)	Code	SP	Weight (kg)	L (m)	PN (bar)	PN at 20°C (bar)
16	2.0	**762 101 000**	1	0.119	100	10	16
16	2.0	**762 101 014**	1	0.118	200	10	16
20	2.0	**762 101 001**	1	0.154	50	10	16
25	2.5	**762 101 130**	1	0.289	50	10	16
32	3.0	**762 101 131**	1	0.354	50	10	16





iFIT Multilayer pipe PE-RT Protected

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

d (mm)	s (mm)	Code	SP	Weight (kg)	D (mm)	L (m)	PN (bar)	PN at 20°C (bar)
16	2.0	**762 101 003**	1	0.194	25	75	10	16
20	2.0	**762 101 004**	1	0.246	30	50	10	16





iFIT Multilayer pipe with blue labeling

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

d (mm)	s (inch)	GF Code	SP	Weight (kg)	Color	L (m)	PN (bar)	PN at 20°C (bar)
16	2.0	**762 101 307**	1	0.119	blue	100	10	16
20	2.0	**762 101 301**	1	0.154	blue	50	10	16
25	2.5	**762 101 376**	1	0.289	blue	50	10	16





iFIT Multilayer pipe with red labeling

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

d (mm)	s (inch)	GF Code	SP	Weight (kg)	Color	L (m)	PN (bar)	PN at 20°C (bar)
16	2.0	**762 101 306**	1	0.119	red	100	10	16
20	2.0	**762 101 300**	1	0.154	red	50	10	16
25	2.5	**762 101 375**	1	0.289	red	50	10	16



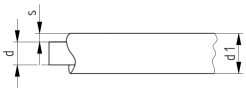


iFIT Multilayer pipe PE-RT In bars, 5.0m

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

d (mm)	s (mm)	Code	SP	Weight (kg)	L (m)	PN (bar)	PN at 20°C (bar)
16	2.0	**762 101 005**	9	0.118	5	10	16
20	2.0	**762 101 006**	9	0.154	5	10	16
25	2.5	**762 101 007**	10	0.284	5	10	16
32	3.0	**762 101 008**	4	0.354	5	10	16



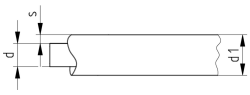


iFIT Multilayer pipe insulated 6mm PE-RT

- Description: in coils
- Material: PE-RT/AL/PE-RT (white)
- Insulation: W/mK 0.035

d (mm)	s (inch)	GF Code	d1 (mm)	s1 (mm)	L (m)	PN (bar)	PN at 20°C (bar)
16	2.0	**762 101 365**	28	6	50	10	16
20	2.0	**762 101 366**	32	6	50	10	16
25	2.5	**762 101 314**	37	6	25	10	16





iFIT Multilayer pipe insulated 10mm PE-RT

- Description: in coils
- Material: PE-RT/AL/PE-RT (white)
- Insulation: W/mK 0.035

d (mm)	s (mm)	Code	SP	Weight (kg)	d1 (mm)	s1 (mm)	L (m)	PN (bar)	PN at 20°C (bar)
16	2.0	**762 101 367**	1	0.230	36	10	50	10	16
20	2.0	**762 101 368**	1	0.180	40	10	50	10	16
25	2.5	**762 101 317**	1	0.450	45	10	25	10	16

Accessories for pipes



iFIT wall inlet plug metal

- Material: metal
- Description: wall intet plug for pipes

d (mm)	Code	SP	Weight (kg)
16	**762 101 150**	1	0.253
20	**762 101 151**	1	0.257
25	**762 101 152**	1	0.223
32	**762 101 153**	1	0.380



iFIT Plug module-side metal

With air-vent screw 1/2"
- Material: metal

d (mm)	Code	SP	Weight (kg)
16 - 20	**762 101 207**	1	0.140
25 - 32	**762 101 208**	1	0.196

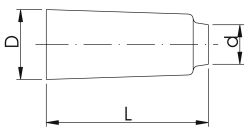


iFIT Pipe draw coupling metal

- Material: metal

d (mm)	Code	SP	Weight (kg)
16	**762 101 154**	1	0.044
20	**762 101 155**	1	0.090

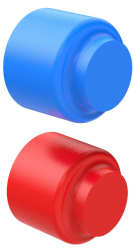




Cap long plastic
For protective pipe

For iFIT, INSTAFLEX, JRG Sanipex, JRG Sanipex MT
- Material: plastic

d (mm)	Colors	Code	SP	Weight (kg)	D (mm)	L (mm)
16	red	**762 101 234**	10	0.006	25	70
16	blue	**762 101 235**	10	0.005	25	70
20	red	**762 101 236**	10	0.006	30	70
20	blue	**762 101 237**	10	0.005	30	70



iFIT Cap set for protective pipe polyethylene

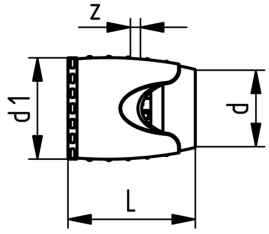
- Material: polyethylene

10x red / 10x blue

d (mm)	s (inch)	GF Code	SP	Weight (kg)
16	2.0	**762 590 916**	1	0.070
20	2.0	**762 101 239**	1	0.060

Adapters



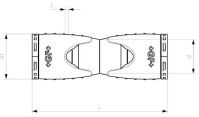


iFIT Adaptor PPSU

- 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





iFIT Double coupling PPSU

- Material: PPSU, PA, Polyethylen PR-RT/AL/PE-RT

d (mm)	GF Code	SP	Weight (kg)	d1 (mm)	L (mm)	z (mm)
20	**762 101 359**	1	0.060	34	100	5
25	**762 101 360**	1	0.147	45	128	8

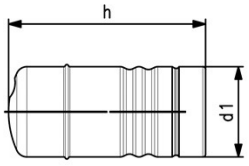


iFIT Cap for adaptor ppsu

- Material: PPSU

*as long as stock last

	d (mm)	s (mm)	Code	SP	Weight (kg)
*	16	2.0	**762 101 017**	5	0.004
*	25	2.5	**762 101 027**	5	0.009

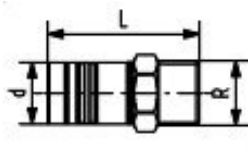


iFIT Cap for adaptor ppsu

- Material: PPSU

d (mm)	Code	SP	Weight (kg)	d1 (mm)	h (mm)
16	**762 101 382**	5	0.004	16	36
25	**762 101 383**	5	0.009	25	38





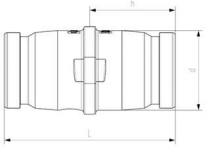
iFIT Male thread adaptor stainless steel Pipe outline 1/2"

- Material: stainless steel
- Connection: male thread

d (mm)	Thread Type	Size (inch)	PN (bar)	SDR	Code	SP	Weight (kg)	L (mm)
20	R	½	16	11	**762 101 238**	2	0.064	49

Modules



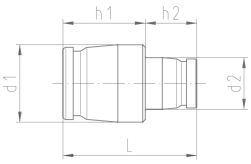


iFIT Coupler/reducing module PPSU

- Material: PPSU

d (mm)	Code	SP	Weight (kg)	L (mm)	h (mm)	PN (bar)	PN at 20°C (bar)
16 - 20	**762 101 044**	10	0.008	43	22	10	16
25 - 32	**762 101 175**	5	0.023	56	28	10	16



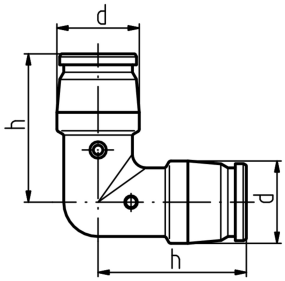


iFIT Reducing module ppsu

- Material: PPSU

d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	L (mm)	h1 (mm)	h2 (mm)	PN (bar)	PN at 20°C (bar)
25 - 32	16 - 20	**762 101 177**	2	0.018	52	32	20	10	16



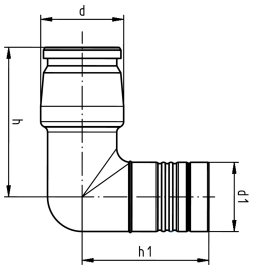


iFIT Elbow module 90° ppsu

- Material: PPSU

d (mm)	Code	SP	Weight (kg)	h (mm)	PN (bar)	PN at 20°C (bar)	SDR
16 - 20	**762 101 046**	10	0.013	36	10	16	11
25 - 32	**762 101 179**	5	0.042	54	10	16	11





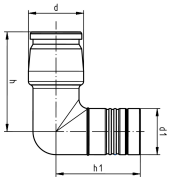
iFIT Elbow module 90° ppsu
Pipe outline

- Material: PPSU

*as long as stock last

	d (mm)	Size (inch)	Code	SP	Weight (kg)	d1 (mm)	h1 (mm)	h (mm)	PN (bar)	PN at 20°C (bar)	SDR
*	16 - 20	20	**762 101 202**	5	0.013	20	40	36	10	16	11
*	25 - 32	25	**762 101 203**	2	0.030	25	46	54	10	16	11



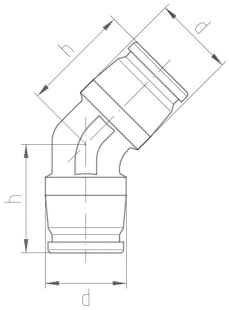


iFIT Elbow module 90° ppsu
With Pipe outline

- Material: PPSU

d (mm)	Size (inch)	Code	SP	Weight (kg)	d1 (mm)	h (mm)	h1 (mm)	PN (bar)	PN at 20°C (bar)	SDR
16 - 20	20	**762 101 384**	5	0.013	20	36	40	10	16	11
25 - 32	25	**762 101 385**	2	0.030	25	54	46	10	16	11



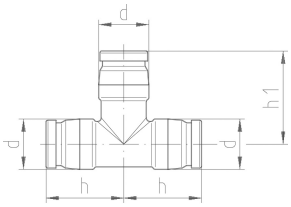


iFIT Elbow module 45° ppsu

- Material: PPSU

d (mm)	Code	SP	Weight (kg)	h (mm)	PN (bar)	PN at 20°C (bar)	SDR
25 - 32	**762 101 180**	5	0.033	40	10	16	11



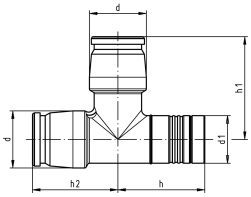


iFIT T-piece module ppsu

- Material: PPSU

d (mm)	Code	SP	Weight (kg)	h (mm)	h1 (mm)	PN (bar)	PN at 20°C (bar)
16 - 20	**762 101 042**	10	0.017	31	37	10	16
25 - 32	**762 101 181**	5	0.053	45	54	10	16





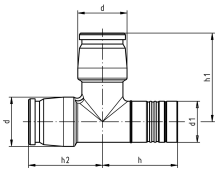
iFIT T-piece module ppsu
With pipe outline

- Material: PPSU

*as long as stock last

	d (mm)	Code	SP	Weight (kg)	d1 (mm)	h (mm)	h1 (mm)	h2 (mm)	PN (bar)	PN at 20°C (bar)
*	16/20 - 20	**762 101 204**	5	0.017	20	41	37	32	10	16
*	25/32 - 25	**762 101 205**	2	0.044	25	46	54	45	10	16



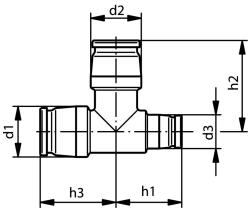


iFIT T-piece module ppsu
With pipe outline

- Material: PPSU

d (mm)	Code	SP	Weight (kg)	d1 (mm)	h (mm)	h1 (mm)	h2 (mm)	PN (bar)	PN at 20°C (bar)
16/20 - 20	**762 101 386**	5	0.017	20	41	37	32	10	16
25/32 - 25	**762 101 387**	2	0.044	25	46	54	45	10	16



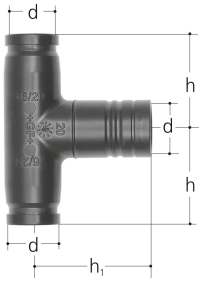


iFIT T- piece module reduced ppsu

- Material: PPSU

d1 (mm)	d2 (mm)	d3 (mm)	Code	SP	Weight (kg)	h1 (mm)	h2 (mm)	h3 (mm)	PN (bar)
25 - 32	25 - 32	16 - 20	**762 101 183**	2	0.045	45	54	39	10
25 - 32	16 - 20	25 - 32	**762 101 185**	2	0.044	45	48	45	10
25 - 32	16 - 20	16 - 20	**762 101 187**	2	0.036	45	48	39	10





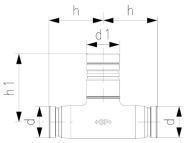
iFIT T-piece module ppsu
With pipe outline

- Material: PPSU

*as long as stock last

	d (mm)	GF Code	SP	Weight (kg)	h (mm)	h1 (mm)	PN (bar)	PN at 20°C (bar)
*	16/20 - 20	**762 101 349**	5	0.016	33	41	10	16



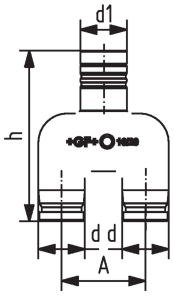


iFIT T-piece module ppsu
With pipe outline

- Material: PPSU

	d (mm)	GF Code	SP	Weight (kg)	d1 (mm)	h (mm)	h1 (mm)	PN (bar)	PN at 20°C (bar)
16/20 - 20	**762 101 389**	5	0.016	20	33	41	10	16





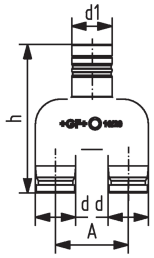
iFIT Y-Module ppsu
with pipe outline

- Material: PPSU

*as long as stock last

	d (mm)	Code	SP	Weight (kg)	d1 (mm)	h (mm)	A (mm)	PN (bar)	PN at 20°C (bar)
*	16 - 20	**762 101 233**	5	0.032	20	74	36	10	16



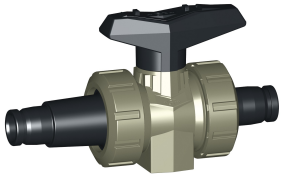


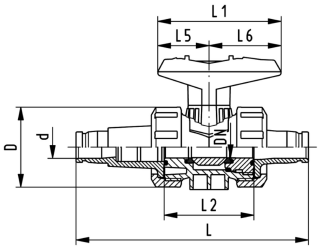
iFIT Y-Module ppsu with pipe outline

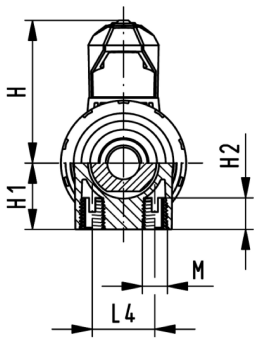
- Material: PPSU

d (mm)	Code	SP	Weight (kg)	d1 (mm)	h (mm)	A (mm)	PN (bar)	PN at 20°C (bar)
16 - 20	**762 101 388**	5	0.032	20	74	36	10	16

Valves







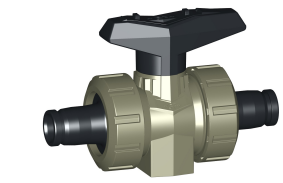
PROGEF Standard Shipbuilding ball valve type 547
With iFIT connection long

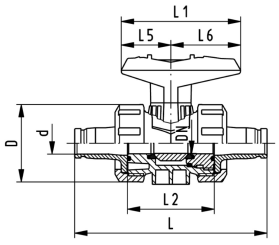
Model:

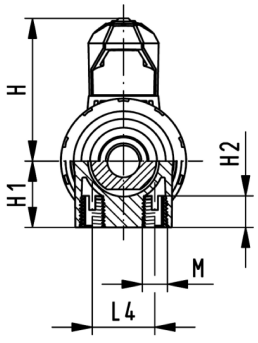
- Material: PP-H
- iFIT connection for d16/20
- iFIT connector with integrated check valve and filter
- For easy installation and removal
- Ball seat PTFE
- Integrated stainless steel mounting inserts

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
20	15	10	40	**167 547 012**	2	0.245

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







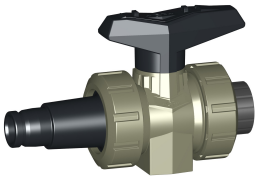
PROGEF Standard Shipbuilding ball valve type 547
With iFIT connection short

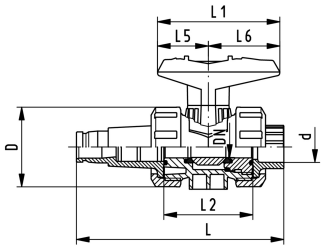
Model:

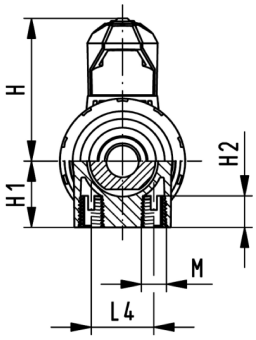
- Material: PP-H
- iFIT connection for d16/20
- For easy installation and removal
- Ball seat PTFE
- Integrated stainless steel mounting inserts

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
20	15	10	185	**167 547 812**	2	0.152

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M (mm)
20	50	57	27	12	126	77	56	25	32	45	6







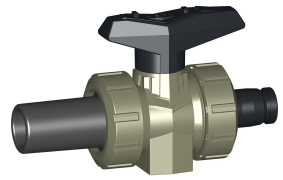
PROGEF Standard Shipbuilding ball valve type 547
With iFIT connection and fusion socket PB

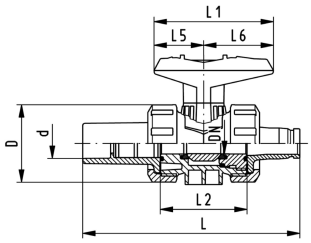
Model:

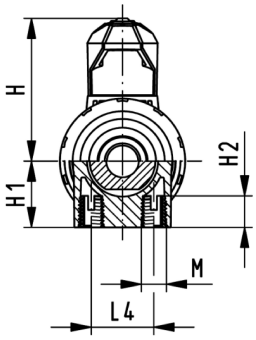
- Material: PP-H
- iFIT connection for d16/20
- iFIT connection with integrated check valve and filter
- For easy installation and removal
- Ball seat PTFE
- Integrated stainless steel mounting inserts

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	10	40	**167 547 041**	2	0.244
20	15	10	40	**167 547 042**	2	0.242

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







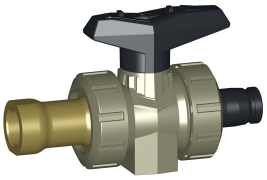
PROGEF Standard Shipbuilding ball valve type 547
With fusion socket PB and iFIT connection

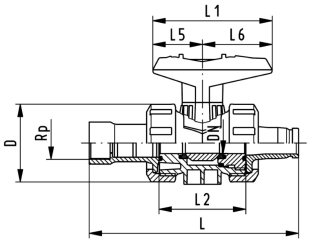
Model:

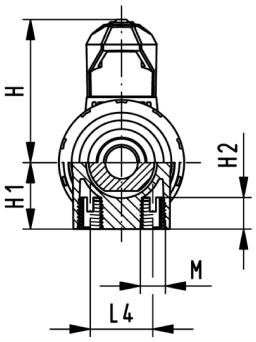
- Material: PP-H
- iFIT connection for d16/20
- For easy installation and removal
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Fusion socket PB with integrated check valve and filter

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	10	40	**167 547 311**	2	0.303
20	15	10	40	**167 547 312**	2	0.303

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M (mm)
16	50	57	27	12	141	77	56	25	32	45	6
20	50	57	27	12	141	77	56	25	32	45	6







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

Model:

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

d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
20	15	Rp	½	10	40	**167 547 512**	2	0.327

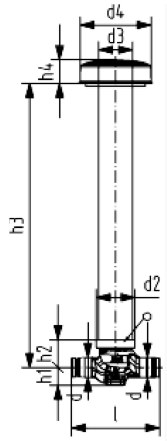
D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M (mm)
50	57	27	12	136	77	56	25	32	45	6



Service housing end connector kit with iFIT connector

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



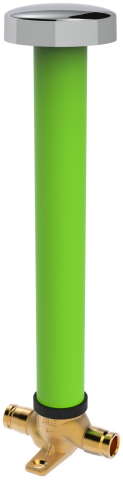


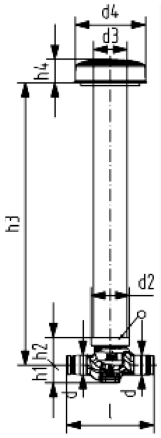
iFIT Concealed shut-off valve gunmetal

- Temperature: max. 90°C
- Material: gunmetal

*as long as stock last

	d (mm)	Code	SP	Weight (kg)	d2 (mm)	d3 (mm)	d4 (mm)	h1 (mm)	h2 (mm)	h3 (mm)	h4 (mm)	l (mm)
*	16 - 20	**762 101 227**	1	0.300	39	34	71	18	28	43 - 270	24	88
*	25 - 32	**762 101 228**	1	0.500	39	34	71	27	28	43 - 270	24	112



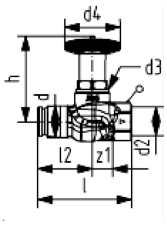


iFIT Concealed shut-off valve gunmetal lead-free

- Temperature: max. 90°C
- Material: gunmetal lead-free

d (mm)	Code	SP	Weight (kg)	d2 (mm)	d3 (mm)	d4 (mm)	h1 (mm)	h2 (mm)	h3 (mm)	h4 (mm)	l (mm)
16 - 20	**762 102 227**	1	0.300	39	34	71	18	28	43 - 270	24	88
25 - 32	**762 102 228**	1	0.500	39	34	71	27	28	43 - 270	24	112





iFIT Manifold shut-off valve gunmetal

- Temperature: max. 90°C
- Material: gunmetal
- Connection: female thread, iFIT

*as long as stock last

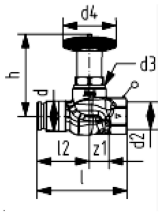
	d (mm)	Code	SP	Weight (kg)	d2 Rp (inch)	d3 G (inch)	d4 (mm)	l (mm)	l2 (mm)	h (mm)	z1 (mm)
*	25 - 32	**762 101 229**	1	0.440	¾	¾	53	90	52	82	23



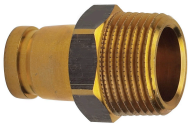
iFIT Manifold shut-off valve gunmetal lead-free

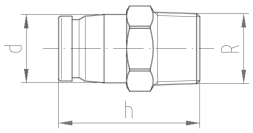
- Temperature: max. 90°C
- Material: gunmetal lead-free
- Connection: female thread, iFIT

d (mm)	Code	SP	Weight (kg)	d2 Rp (inch)	d3 G (inch)	d4 (mm)	l (mm)	l2 (mm)	h (mm)	z1 (mm)
25 - 32	**762 102 229**	1	0.440	¾	¾	53	90	52	82	23



Transition modules



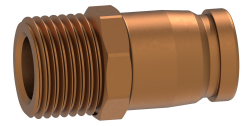


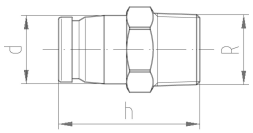
iFIT Transition module brass
With male thread

- 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	⅜	**762 101 346**	5	0.057	42
*	16 - 20	R	½	**762 101 265**	10	0.060	42
*	16 - 20	R	¾	**762 101 266**	10	0.071	43
*	25 - 32	R	¾	**762 101 277**	2	0.135	51
*	25 - 32	R	1	**762 101 278**	2	0.175	55

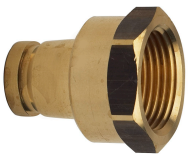


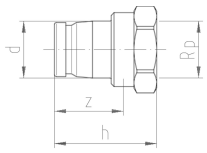


iFIT Transition module gunmetal lead-free
With male thread

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

d (mm)	Thread Type	Size (inch)	Code	SP	Weight (kg)	h (mm)
16 - 20	R	⅜	**762 102 346**	5	0.061	42
16 - 20	R	½	**762 102 265**	10	0.065	43
16 - 20	R	¾	**762 102 266**	10	0.071	43
25 - 32	R	¾	**762 102 277**	2	0.155	53
25 - 32	R	1	**762 102 278**	2	0.185	57



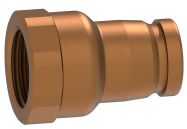


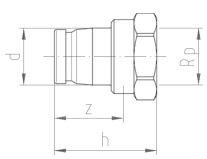
iFIT Transition module brass
With female thread

- 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	½	**762 101 267**	10	0.065	36	23
*	16 - 20	Rp	¾	**762 101 268**	10	0.085	39	24
*	25 - 32	Rp	¾	**762 101 279**	2	0.127	45	31
*	25 - 32	Rp	1	**762 101 280**	2	0.175	49	32

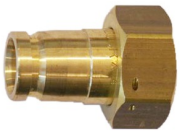


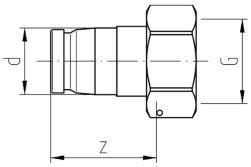


iFIT Transition module gunmetal lead-free
With female thread

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

d (mm)	Thread Type	Size (inch)	Code	SP	Weight (kg)	h (mm)	z (mm)
16 - 20	Rp	½	**762 102 267**	10	0.070	40	23
16 - 20	Rp	¾	**762 102 268**	10	0.094	42	25
25 - 32	Rp	¾	**762 102 279**	2	0.138	48	31
25 - 32	Rp	1	**762 102 280**	2	0.196	53	34



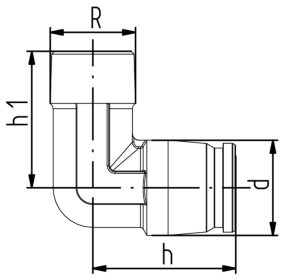


iFIT Transition union module brass
With flat sealed

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

d (mm)	Thread Type	Size (inch)	Code	SP	Weight (kg)	z (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



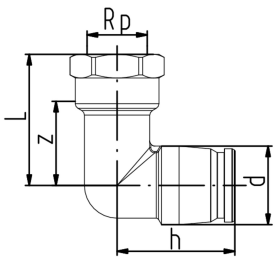


iFIT Transition elbow module brass
With male thread

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

d (mm)	Thread Type	Size (inch)	Code	SP	Weight (kg)	h (mm)	h1 (mm)
16 - 20	R	½	**762 101 270**	10	0.071	30	34
16 - 20	R	¾	**762 101 271**	10	0.076	30	35
25 - 32	R	¾	**762 101 285**	2	0.189	45	43
25 - 32	R	1	**762 101 286**	2	0.214	45	45



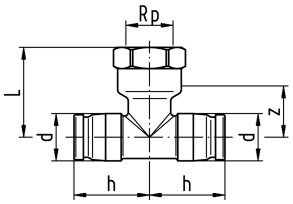


iFIT Transition elbow module brass
With female thread

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

d (mm)	Thread Type	Size (inch)	Code	SP	Weight (kg)	L (mm)	h (mm)	z (mm)
16 - 20	Rp	½	**762 101 287**	10	0.102	38	32	25
16 - 20	Rp	¾	**762 101 290**	10	0.120	40	36	22
25 - 32	Rp	¾	**762 101 288**	5	0.211	50	45	33



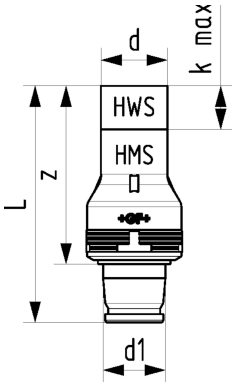


iFIT Transition module brass
With female thread

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

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)	L (mm)	h (mm)	z (mm)
16 - 20	Rp	½	16	**762 101 272**	5	0.129	38	32	25
25 - 32	Rp	¾	16	**762 101 289**	2	0.291	50	43	35





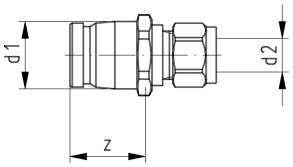
iFIT Transition module PB
With INSTAFLEX spigot

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

- Material: brass dezincification resistant, PB

d (mm)	d1 (mm)	PN (bar)	SDR	Code	SP	Weight (kg)	L (mm)	z (mm)	k max. (mm)
16	16 - 20	16	11	**762 101 253**	1	0.075	93	73	22
20	16 - 20	16	11	**762 101 254**	1	0.088	96	76	23
25	16 - 20	16	11	**762 101 255**	1	0.110	103	83	23
25	25 - 32	16	11	**762 101 256**	1	0.164	108	83	23
32	25 - 32	16	11	**762 101 257**	1	0.213	144	86	21

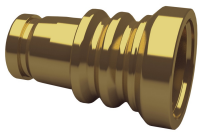


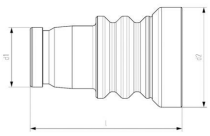


iFIT Transition module brass
With clamping end Copper

- Material: brass

d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	z (mm)
16 - 20	10	**762 101 322**	10	0.070	22
16 - 20	12	**762 101 292**	10	0.050	19
16 - 20	15	**762 101 293**	10	0.060	22



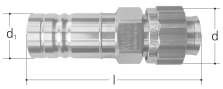


iFIT Transition module brass
With Sanipex MT connector

- Material: brass, dezincification resistant

d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	l (mm)
16 / 20	26	**762 101 323**	2	0.091	49
16 / 20	32	**762 101 324**	2	0.145	57
25 / 32	32	**762 101 325**	2	0.185	64





iFIT Transition module brass
With JRG Sanipex connector

- Material: brass, dezincification resistant

D (mm)	GF Code	SP	GP	Weight (kg)	d (mm)	d1 (mm)	l (mm)
16 - 12	**762 101 347**	5	50	0.061	12	16	58



iFIT Transition module brass
With sudoFIT connector

- Material: brass

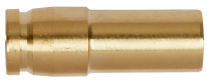
Permissible tubes can be found in the installation instructions for the fitter's toolkit JRG code 8130.000

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

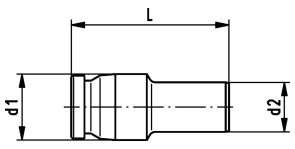
Stainless steel pipes / PN16 / Ø 15, 18, 22, 28, 35, 42, 54 / Mapress / Optipress, Sanpress /inoxPRES

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

d (mm)	Code	SP	Weight (kg)	d1 (mm)	l (mm)	l1 (mm)
16 - 20	**762 101 243**	10	0.054	12	42	20
16 - 20	**762 101 244**	10	0.060	14	42	20
16 - 20	**762 101 245**	10	0.060	15	42	20
16 - 20	**762 101 246**	10	0.120	18	53	20
16 - 20	**762 101 247**	5	0.140	22	54	20
25 - 32	**762 101 248**	2	0.190	22	62	28





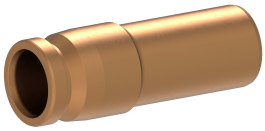


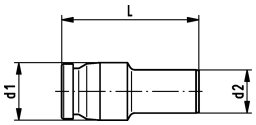
iFIT Transition module gunmetal
With press end

- Temperature: max. 90°C
- Material: gunmetal

*as long as stock last

	d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	L (mm)
*	16 - 20	12	**762 101 327**	5	0.038	50
*	16 - 20	15	**762 101 190**	2	0.036	54
*	16 - 20	18	**762 101 191**	2	0.037	56
*	16 - 20	22	**762 101 379**	2	0.073	62
*	25 - 32	22	**762 101 192**	2	0.105	70
*	25 - 32	28	**762 101 193**	2	0.103	70



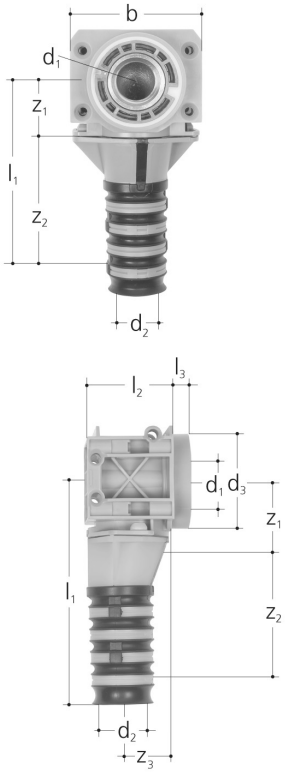


iFIT Transition module gunmetal lead-free
With press end

- Temperature: max. 90°C
- Material: gunmetal lead-free

d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	L (mm)
16 - 20	12	**762 102 327**	5	0.038	50
16 - 20	15	**762 102 190**	2	0.046	54
16 - 20	18	**762 102 191**	2	0.037	56
16 - 20	22	**762 102 379**	2	0.073	62
25 - 32	22	**762 102 192**	2	0.105	70
25 - 32	28	**762 102 193**	2	0.103	70

Outlet joints

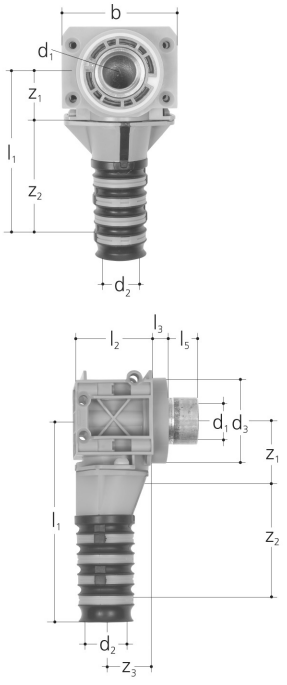


iFIT Box 90° brass

- Material: brass (low lead), plastic
- Connection: female thread
- Consisting of: box body, box foot, bend

d (mm)	GN (inch)	GF Code	SP	Weight (kg)
16 - 20	½	**762 101 303**	10	0.205
16 - 20	¾	**762 101 304**	10	0.200

d (mm)	b (mm)	d1 Rp (inch)	d2 (mm)	d3 (mm)	l1 (mm)	l2 (mm)	l3 (mm)	z1 (mm)	z2 (mm)	z3 (mm)
16 - 20	64	½	29	47	118	41	10	44	50	17
16 - 20	64	¾	29	47	118	41	10	44	50	15

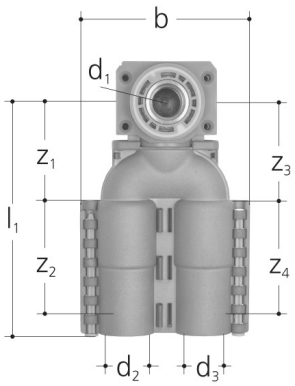


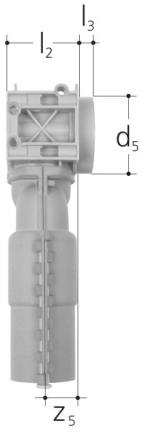
iFIT Box 90° brass with extended threaded connection

- Material: brass (low lead), plastic
- Connection: female thread
- Consisting of: box body, box foot, bend

d-d (mm)	GN (inch)	Code	SP	Weight (kg)
16 - 20	½	**762 101 345**	10	0.279

b (mm)	d1 Rp (inch)	d2 (mm)	d3 (mm)	l1 (mm)	l2 (mm)	l3 (mm)	l5 (mm)	z1 (mm)	z2 (mm)	z3 (mm)
64	½	25	47	109	41	1	20	37	50	21





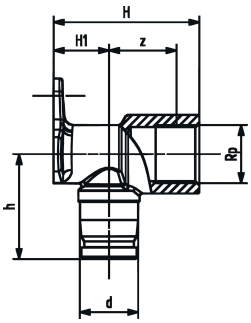
iFIT Box 2-way 90° brass

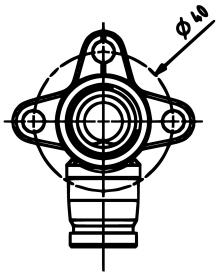
- Material: brass (low lead), plastic
- Connection: female thread
- Consisting of: box body, box foot, bend

d (mm)	Rp (inch)	GF Code	SP	Weight (kg)
16 - 20	½	**762 101 305**	1	0.320

d (mm)	Rp (inch)	b (mm)	d1 Rp (inch)	d2 (mm)	d3 (mm)	d5 (mm)	l1 (mm)	l2 (mm)	l3 (mm)	z1 (mm)	z2 (mm)	z3 (mm)	z4 (mm)	z5 (mm)
16 - 20	½	110	½	29	25	47	148	41	10	69	50	66	50	17



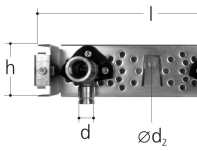


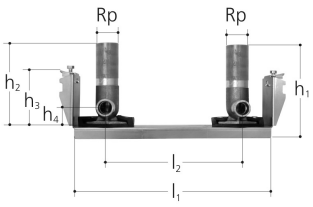


iFIT Single pipe outlet module brass

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

	d (mm)	Rp (inch)	Code	SP	Weight (kg)	H (mm)	H1 (mm)	h (mm)	z (mm)
	16 - 20	½	**762 101 364**	10	0.181	50	19	36	12
	16 - 20	½	**762 101 274**	5	0.181	64	19	36	32
	16 - 20	½	**762 101 321**	2	0.272	95	19	39	63
*	16 - 20	¾	**762 101 260**	2	0.173	44	19	39	11

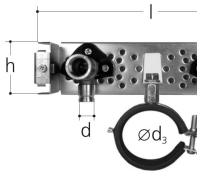


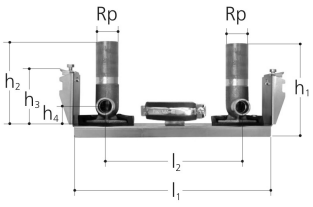


iFIT Plate steel for GIS profile

- Material: brass, dezincification resistant, steel, galvanized, plastic, rubber
- Connection: iFIT, female thread, Geberit system (GIS)

	d (mm)	Rp (inch)	Code	SP	Weight (kg)	d2 (mm)	h (mm)	h1 (mm)	h2 (mm)	h3 (mm)	h4 (mm)	l (mm)	l1 (mm)	l2 (mm)
	16 - 20	½	**762 101 240**	1	0.925	10	64	111	98	71	22	248	223	153





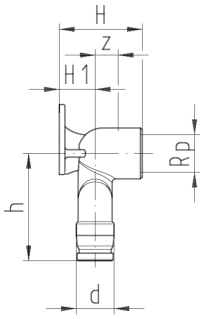
iFIT Plate steel for GIS profile, with drain pipe clamp

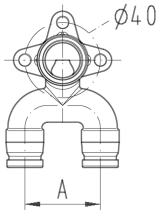
- Material: brass, dezincification resistant, steel, galvanized, plastic, rubber
- Connection: iFIT, female thread, Geberit system (GIS)

	d (mm)	Rp (inch)	Code	SP	Weight (kg)
	16 - 20	½	**762 101 241**	1	1.015

	d (mm)	Rp (inch)	d2 (mm)	d3 (mm)	h (mm)	h1 (mm)	h2 (mm)	h3 (mm)	h4 (mm)	l (mm)	l1 (mm)	l2 (mm)
	16 - 20	½	10	50 - 70	64	111	98	71	22	248	223	153





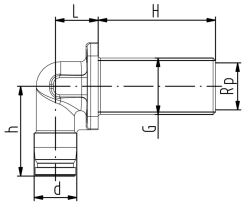


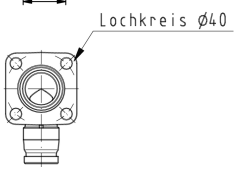
iFIT Dual pipe outlet module brass

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

d (mm)	Rp (inch)	Code	SP	Weight (kg)	A (mm)	H (mm)	H1 (mm)	h (mm)	z (mm)
16 - 20	½	**762 101 261**	2	0.240	40	50	19	57	12
16 - 20	½	**762 101 275**	2	0.282	40	64	19	57	32





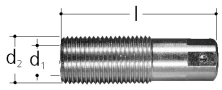


iFIT Single pipe outlet module brass
With single pipe outlet 1/2" - 3/4"

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

d (mm)	Thread Type	Rp (inch)	Size (inch)	Code	SP	Weight (kg)	H (mm)	h (mm)	G (inch)	L (mm)
16 - 20	Rp	½	½	**762 101 269**	1	0.197	55	42	¾	20
16 - 20	Rp	½	½	**762 101 357**	1	0.225	45	42	¾	20

Accessories for outlet joints



Pressure-pin steel

- Material: steel, galvanized
- Connection: male thread

For iFIT, INSTAFLEX, JRG Sanipex, JRG Sanipex MT

GN (inch)	JRG Code	GF Code	SP	Weight (kg)	d1 G (inch)	l (mm)	d2 (inch)
½	**5741.092**	**355 564 103**	10	0.120	¼	65	½

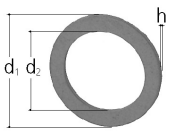


Venting Screw for pressure-pin steel

- Material: steel
- Description: to 5741

For iFIT, INSTAFLEX, JRG Sanipex, JRG Sanipex MT

d (inch)	GF Code	Weight (kg)
¼	**355 564 102**	0.008



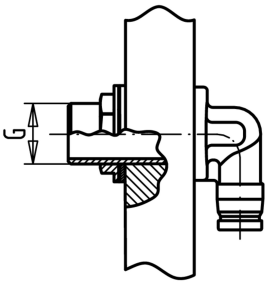
Gasket to pressure-pin EPDM

- Description: to 5741
- Material: EPDM

For iFIT, INSTAFLEX, JRG Sanipex, JRG Sanipex MT

GF Code	SP	Weight (kg)	d1 (mm)	d2 (mm)	h (mm)
355 564 105	1	0.000	11	5	3

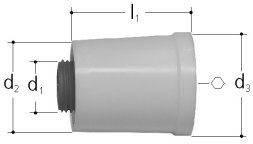




Fastening set

Appropriate to outlet joint with male thread
Consists of: Union nut, washer, seal

G (inch)	Code	Weight (kg)
3/4	**760 854 699**	0.031

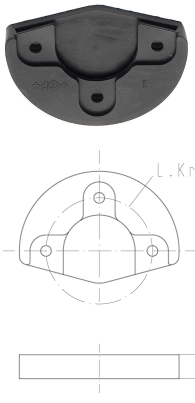


Pressure- and protectionplug plastic

- Material: plastic

For iFIT, INSTAFLEX, JRG Sanipex, JRG Sanipex MT

GN (inch)	JRG Code	GF Code	SP	Weight (kg)	d1 G (inch)	d2 (mm)	d3 (mm)	l (mm)	l1 (mm)	⬡ (mm)
½	**5409.145**	**351 424 802**	15	0.020	½	35	38	45	45	10
¾	**5409.245**	**351 424 702**	15	0.020	¾	35	38	45	45	10



Sound proofing for pipe outlet rubber

- Material: rubber

H (mm)	Code	SP	Weight (kg)
11	**762 101 033**	10	0.011

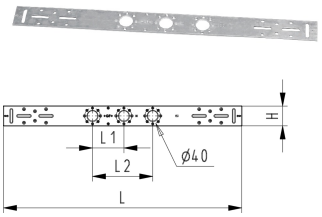


Sound proofing for pipe outlet rubber

- Material: rubber

*for iFIT, INSTAFLEX, JRG Sanipex, JRG Sanipex MT
**for iFIT
Single or double

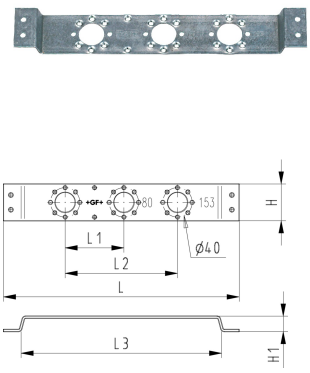
		Code	SP	Weight (kg)
*	Set single	**762 101 036**	5	0.077
**	Set double	**762 101 037**	2	0.123



INSTAFLEX Distance plate flat

With hole circle 40 and thread M6
From the INSTAFLEX range

L (mm)		Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	H (mm)
452	single	**760 869 920**	5	0.464			50
552	double	**760 869 919**	5	0.564	100		50

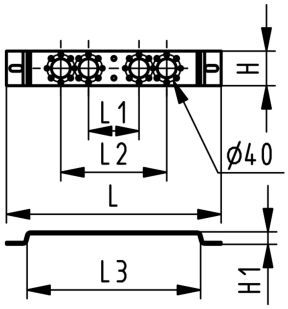


Distance plate for dry lined walls

Lightweight construction walls
With hole circle 40 and thread M6

L (mm)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	H1 (mm)
321	**760 869 921**	5	0.374	80	153	273	50	21





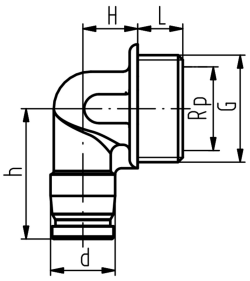
GIS distance plate for dry lined walls

With hole circle 40 and thread M6
From the INSTAFLEX range

L (mm)	Code	Weight (kg)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	H1 (mm)
310	**760 855 133**	0.292	80	153	250	50	21

WC connection modules

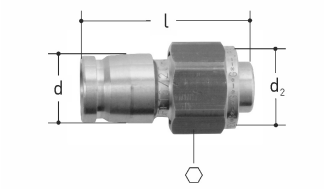




iFIT WC connection module concealed brass

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

d (mm)	Rp (inch)	Code	SP	Weight (kg)	G (inch)	L (mm)	H (mm)	h (mm)
16 - 20	½	**762 101 262**	5	0.147	1	14	17	41

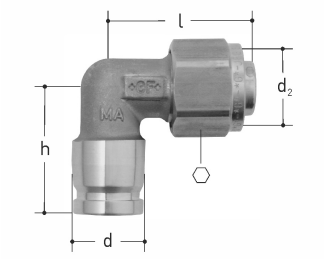


iFIT Adapter with push fit nipple brass

- Description: Compatible to GEBERIT male thread MF 1/2"
- Matierial: decinzification resistant brass
- Constisting of: Incl. protection cap

* low lead

d (mm)	d2 (inch)	Code	SP	Weight (kg)	L (mm)	⬡ (mm)
16 - 20	½	**762 101 264**	1	0.060	53	24



iFIT Elbow with push fit nipple brass

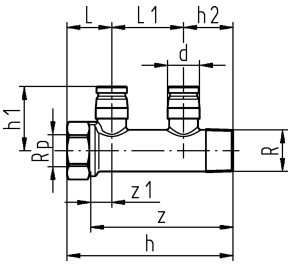
- Description: Compatible to GEBERIT male thread MF 1/2"
- Matierial: decinzification resistant brass
- Constisting of: Incl. protection cap

* low lead

d (mm)	d2 (inch)	Code	SP	Weight (kg)	L (mm)	h (mm)	⬡ (mm)
16 - 20	½	**762 101 263**	5	0.085	45	34	24

Manifolds





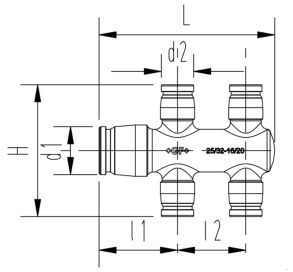
iFIT Manifold module brass
With center-to-center distance of 55 mm

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

d (mm)	Thread Type	Thread Type 2	Size	Size 2 (inch)	outlet	Code	SP	Weight (kg)
16 - 20	Rp	R	¾	¾	2-fold	**762 101 294**	2	0.315
16 - 20	Rp	R	¾	¾	3-fold	**762 101 295**	2	0.444
16 - 20	Rp	R	¾	¾	4-fold	**762 101 296**	2	0.573

d (mm)	h (mm)	h1 (mm)	h2 (mm)	L (mm)	L1 (mm)	z (mm)	z1 (mm)
16 - 20	123	40	35	33	55	109	19
16 - 20	178	40	35	33	55	164	19
16 - 20	233	40	35	33	55	219	19





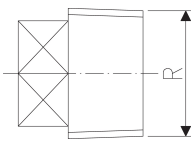
iFIT Manifold module PPSU

- Material: PPSU

d (mm)	Size (inch)	d1 (mm)	d2 (mm)	outlet	Code	SP	Weight (kg)
25 - 32	16 - 20	25 - 32	16 - 20	3-fold	**762 101 213**	2	0.052
25 - 32	16 - 20	25 - 32	16 - 20	4-fold	**762 101 212**	2	0.056

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





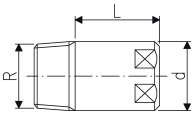
Plug Brass

- Material: brass
- Connection: male thread

For iFIT, INSTAFLEX, JRG Sanipex, JRG Sanipex MT
*as long as stock last

	R (inch)	Code	SP	Weight (kg)
*	¾	**760 857 076**	5	0.058



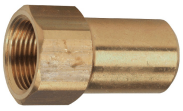


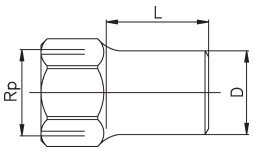
Plug long Brass

- Material: brass
- Connection: male thread

For iFIT, INSTAFLEX, JRG Sanipex, JRG Sanipex MT

R (inch)	Code	SP	Weight (kg)	D (mm)	L (mm)
1	**760 857 145**	5	0.211	33	54





Cap long Brass

- Material: brass
- Connection: female thread

For iFIT, INSTAFLEX, JRG Sanipex, JRG Sanipex MT

Rp (inch)	Code	SP	Weight (kg)	D (mm)	L (mm)
¾	**760 857 142**	5	0.162	27	34
1	**760 857 143**	5	0.216	32	34

Heating assortment







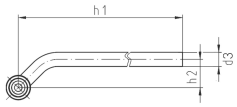
iFIT Connecting elbow module brass Single

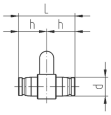
- Material: brass, copper, galvanised

d (mm)	d2 (mm)	Size (inch)	Code	SP	Weight (kg)	h (mm)	h1 (mm)
16 - 20	15	15	**762 101 064**	5	0.174	330	84





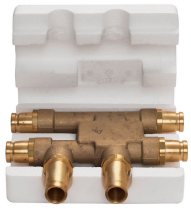




iFIT Connecting elbow module brass Double

- Material: brass, copper, galvanised

d1 (mm)	d2 (mm)	d3 (mm)	Code	SP	Weight (kg)	h (mm)	h1 (mm)	h2 (mm)	L (mm)
16 - 20	16 - 20	15	**762 101 065**	5	0.237	30	330	30	60



iFIT Cross Tee module brass

- Material: brass
- Description: isolation box included

d (mm)	Code	SP	Weight (kg)	L (mm)	L1 (mm)	H (mm)	H1 (mm)	H2 (mm)
16 - 20	**762 101 068**	1	0.877	50	50	63	66	46

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iFIT

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



JRG Sanipex MT Multi purpose cutter steel d12 - d26

- Material: steel, plastic

	d (mm)	JRG Code	GF Code	SP	Weight (kg)	b (mm)	l (mm)
	12-26	**4837.025**	**355 632 420**	1	0.310	196	73
Spare blades		**4837.005**	**355 632 421**	1	0.012		



iFIT plastic pipe cutter 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 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



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



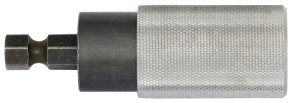
iFIT Tool case empty plastic
For chamfering tool

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



iFIT Grab rail set metal

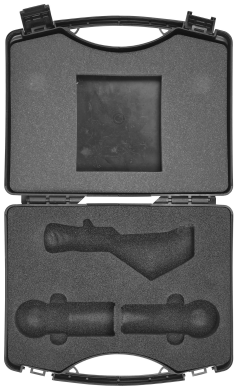
d (mm)	Code	SP	Weight (kg)
16 - 32	**762 101 361**	1	0.050



iFIT Quick-change insert metal

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





iFIT toolbox empty

- Description: Toolbox empty for iFIT tool

d (mm)	Code	SP	Weight (kg)
16-20	**762 101 377**	1	0.450
25-32	**762 101 378**	1	0.447



iFIT Chamfering tool case

on request

d (mm)	Code	SP	Weight (kg)
16 - 32	**762 101 358**	1	4.000

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