

GF Piping Systems



PVC-U & PVC-C

Australian Product Range 2015

Plastic Piping Systems for Industrial Applications



Important Note:

The technical data given in this catalogue is for preliminary information purposes only, and is published without guarantee. All pictures are for illustrative purposes only and should not be regarded as wholly accurate in every detail. We reserve the right to withdraw or alter the specification on any product without notice. Please consult our General Conditions of Supply at the end of this publication.

Table of contents

	Page
50 Years of Application Know-how	
Solvent Cement Instructions	
	3
	22
	39
	79
	157
	172
	192
	251
	261
	287

More than 50 Years of Application Know How



Our long experience in plastic piping systems applications is also for your security. Approvals and third party controls are guarantee for continuously high

quality. Many of our products have the necessary approvals of the relevant institutes and thanks to the batch identification they are traceable.

Fields of applications

Our specialists are proving their wide material knowledge and their application experience day by day in various industries:

- Water treatment
- Waste water treatment
- Galvanics
- Chemical industry
- Automotive industry
- Electronic industry
- Energy
- Swimming pools
- Cellulose and paper industry
- Photo industry

- Textile industry
- Shipbuilding
- Beverage industry
- Exhaust gas cleaning
- Chlorine industry
- Cooling and air conditioning
- Refrigeration plants
- Food
- Mining

Do you miss your application in the above list? No problem. Please call us, and we will find a solution according to your specifications.

Approvals

kiwa

IIP

NF



Lebensmittelzulassung

Drinking water approvals

WRAS
APPROVED
PRODUCT

MAIRIE DE PARIS

kiwa

Shipbuilding approvals



**BUREAU
VERITAS**



Germanischer Lloyd



DET NORSKE VERITAS

**Lloyd's
Register**

Quality Products with Advantages



Advantage of Wide Product Ranges

Fittings

Hand Operated Valves

Pipes

Joining Systems

Actuated Valves

Measure and Control Technology

Machines and Tools

available in four standards: ISO/DIN, ASTM/ANSI, BS and JIS



Quality management system
certified according to
ISO 9001/EN 29001
and ISO 4001



Advantage of Quality

Compound

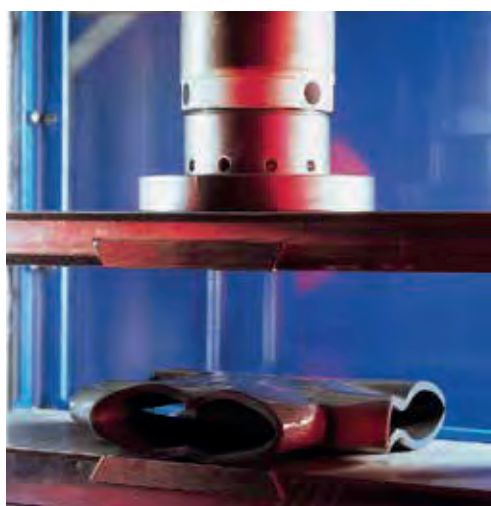
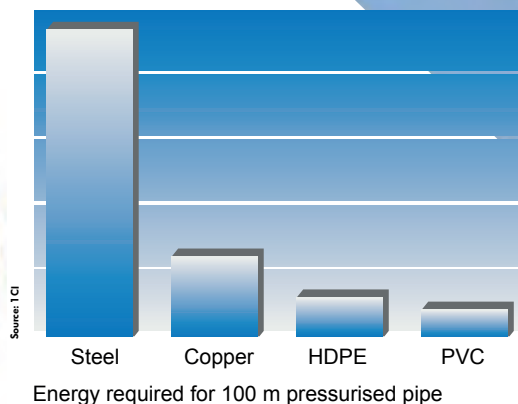
Our own compound and strict quality controls for each raw material delivery form the basis for GF Piping Systems high quality products.

Production Know-How

Due to know-how gathered over 50 years we are able to produce our products to exceptionally high tolerances.

Advantage for the Environment

In addition to the economical advantage of PVC-U, PVC-C and ABS there are also ecological advantages:
Preserving diminishing natural resources
Less energy required
Possibility of recycling
Very long life span



Advantage of Production Quality Control Tests

Pressure Pulsation Testing 1000 h Test
Chemical Resistance Functions
Temperature Cycling Test
Cyclic Bending Test

Independently accredited test laboratory for components of plastic piping systems according to SN EN ISO 45001

for Professional Users

Advantage in Planning

One-stop-shopping for complete systems

Many customers prefer to purchase the complete piping system from one supplier. Because only systems that are designed to complement each other guarantee easy planning, installing and efficient functioning of the piping system.

CAD Product Library

For drawing and providing a list of orders GF Piping Systems CAD Product Library is an optimal solution. Can be used with AutoCAD and other CAD systems.



Advantage of Choosing the Right Material

For maximum safety and optimal durability of a piping system the choice of raw material and pressure class of the pipe parts is highly important. The raw material's suitability to the medium can be checked with the help of our chemical resistance list.



Advantage of Installation Technique

Cement jointing is simple, fast, economical and very reliable.

Over 100 million homogenous joints have been made over the total life time of piping systems, achieving the highest quality requirements.



Advantage of Support

Training

GF Piping Systems offers training possibilities at our regional sales companies, in our own training center in Schaffhausen or at your premises. For cement jointing we can also provide you with a training video.

Worldwide Distribution

Sales companies, representatives and dealers from GF Piping Systems can supply you with complete technical advice, punctual distribution and fast service in almost every corner of the world.



GF Piping Systems quality is no coincidence!

More than 50 years of research, development and experience have shaped our high standard of quality. You will find the solution to your problem in our extensive product range:

Solvent Cemented Systems

PVC-U

Unplasticised
Polyvinyl Chloride

Range of sizes:

6–400 mm, BS $\frac{3}{8}$ " – 8"

Resistant to:

Acids and alkalis

Recommended applications:

Drinking water, distilled water, general purpose water, waste water, coolant brines, sea water, construction of plant and apparatus, foodstuffs, beverages. Universally applicable plastic with the widest range of fittings and valves

Not recommended for:

Aromatic solvents, ester, ketones, chlorinated hydrocarbons
low temperature uses ($< 0^{\circ}\text{C}$)
high temperature uses ($> 60^{\circ}\text{C}$)

PVC-C

post-chlorinated PVC-U

Range of sizes:

16–225 mm

Resistant to:

Acids and alkalis at high temps (max. 90°C) and high concentrations

Recommended applications:

Hot and aggressive mediums, high temperature, high corrosive environments, chemical industry generally (e.g. mixed acid waste) and hot water industrial applications

Not recommended for:

Aromatic solvents, ester, ketones, chlorinated hydrocarbons
low temperature uses ($< 0^{\circ}\text{C}$)

ABS

Acrylonitrile Butadiene
Styrene

Range of sizes:

16–315 mm

BS $\frac{3}{8}$ " – 8"

Resistant to:

Alkalis, weak acids, and salts

Recommended applications:

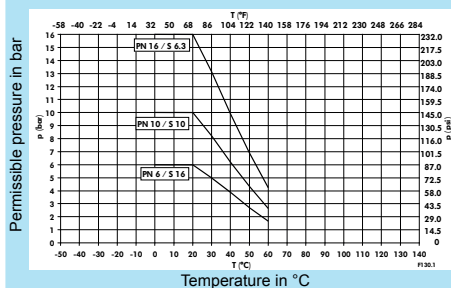
Low temperature brine, chilled water, refrigerants, air conditioning, drinking water, water treatment, process water, mining industry, and foodstuffs

Not recommended for:

High temperature uses ($> 60^{\circ}\text{C}$)
bleaches, aromatic solvents, ester, ketones and alcohols

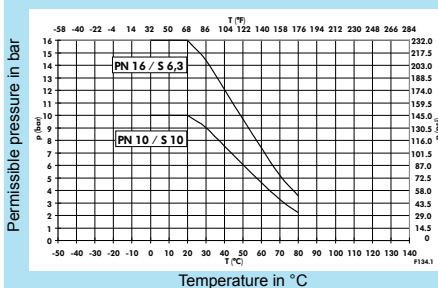
Application Limits for Pipes and Fittings in PVC-U

25-year values with Design Factor C
included at 20°C water



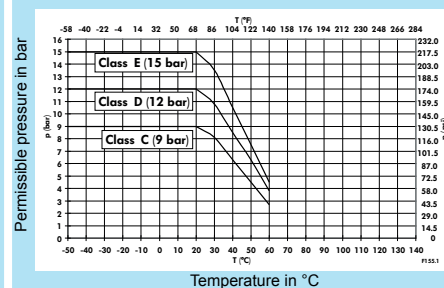
Application Limits for Pipes and Fittings in PVC-C

25-year values with Design Factor C
included at 20°C water



Application Limits for Pipes and Fittings in ABS

25-year values with Design Factor C
included at 20°C water



General information

Abbreviations

Materials

ABS	Acrylonitrile-butadiene-styrene
CR	Chloroprene rubber, e. g. Neoprene
EPDM	Ethylene propylene rubber
FPM	Fluorocautchouc, e. g. Viton
Ms	Brass
NBR	Nitrile rubber
NR	Natural rubber
PB	Polybutene
PE	Polyethylene
PE-X	Cross-linked polyethylene
PP	Polypropylene
PTFE	Polytetrafluorethylene, e. g. Teflon
PVC	Polyvinyl chloride
PVC-C	Polyvinyl chloride, postchlorinated (increased chlorine content)
PVC-U	Polyvinyl chloride, unplasticized
PVDF	Polyvinylidene fluoride
TG	Malleable iron
UP-GF	Unsaturated polyester resin, glassfibre reinforced

Dimensions and units

Dimensions are given in mm and/or inches and are to be taken as nominal or standard dimensions.

The right to make modifications in design is reserved.

d, d1, d2, d3, d4	Diameter
DN	Nominal diameter
SC	Size for hex screws
AL	Number of holes
s	Width across flats
g	Weight in gram
SP	Number per standard pack
GP	Number per large pack
e	Wall thickness of pipe
PN	Nominal pressure at 20 °C, water
Rp	Cylindrical pipe - internal thread to ISO 7/1
R	Conical pipe – external thread to ISO 7/1
ppm	Parts per million
1 bar	= 0.1 N/mm ² = 0.1 Mpa (Megapascal) = 14.504 psi
C	Design factor
S	Pipe series
SDR	Standard Dimension Ratio
MFR	Melt Flow Rate to ISO 4440

Solvent cement jointing

Instructions for Tangit solvent cement jointing of PVC-U dimension d6 to d400

General

Solvent cement jointing calls for adequate technical know-how, which can be acquired in the appropriate training courses. Your GF representative will gladly provide you with information about training possibilities.

NOTICE

Chemical resistance

Selecting applicable solvent cement

- Please consider the appropriate recommendations in the chapter "Chemical Resistance" to the use of Tangit and/or Dytex.

Dimensions and tolerances

The dimensions of GF pipes, fittings and valves conform generally to the various national standards as well as to ISO 727-1 concerning dimensions of sockets. Our fittings and valves can be used with any PVC-U pipes whose outside diameter tolerance conforms to ISO 11922-1.

According to ISO 727-1 the minimal cement lengths are as shown in the table:

Pipe outside diameter / Socket inside diameter d (mm)	Minimal cement length L (mm)
6	12.0
8	12.0
10	12.0
12	12.0
16	14.0
20	16.0
25	18.5
32	22.0
40	26.0
50	31.0
63	37.5
75	43.5
90	51.0
110	61.0
125	68.5
140	76.0
160	86.0
200	106.0
225	118.5
250	131.0
280	146.0
315	163.5
350	183.5
400	206.0

Recommendation for solvent cement jointing of PVC-U fittings of dimensions 250 - 400 mm

PVC-U solvent cement fittings d250 to d280 from GF are designed and tested for a nominal pressure of PN10 (10 bar). The dimensions d315 to d400 are designed and tested for a nominal pressure of PN6 (6 bar).

Our experience and tests reveal that pipes above d315 can be slightly oval, which can produce a heightened cementing gap. GF therefore recommends that pipes from dimensions d315 to d400 should be operated at max. 6 bar working pressure.

Please also note the special remarks for dimensions 250 - 400 in the following jointing instructions.

Tools and equipment

Pipe cutter Type KRA	d10 - 63 d50 - 110 d110 - 160	790 109 001 790 109 002 790 109 003
Pipe cutter type KS 355 Pipe cutter type KS 1600	230 V / 50 - 60 Hz	790 202 001 790 109 600
Chamfering tool	d16-75 d32-200	799 495 145 799 495 146
Cleaner	1 litre tin	799 298 010
Tangit PVC-U solvent cement	0.125 kg tin 0.25 kg tin 0.50 kg tin 1.0 kg tin	799 298 000 799 298 001 799 298 002 799 298 003
Brush sizes		
Pipe outside diameter in mm	Brush	
6-10	Round brush ø4 mm	799 299 001
12-32	Round brush ø8 mm	799 299 002
40-63	Flat brush 1" 25 x 3 mm	799 299 003
75-225	Flat brush 2" 50 x 5 mm	799 299 004
250-400	Flat brush 3" 75 x 6 mm	799 299 005
Tin lid		799 298 028
White absorbent paper	commercially available	
Solvent resistant protecting gloves, Safety glasses	commercially available	



Solvent cementing equipment

PVC-U Tangit and cleaner: Amounts required

Pipe diameter d (mm)	PVC-U Tangit amount per 100 joints (kg)	PVC-U Tangit number of joints per tin 1 kg
16	0.4	250
20	0.5	200
25	0.6	166
32	0.8	125
40	1.1	91
50	1.5	72
63	1.7	59
75	2.2	45
90	4.0	25
110	8.0	12
140	13.0	7
160	19.0	5
200	24.0	4
225	26.0	3.5
250	31.0	3
280	38.0	2.5
315	52.0	2
355	62.0	1.6
400	75.0	1.2

Pipe diameter d (mm)	Tangit cleaner amount per 100 joints (litre)	Tangit cleaner number of joints per tin 1 litre
16	0.2	500
20	0.3	333
25	0.4	250
32	0.5	200
40	0.7	143
50	0.9	111
63	1.1	91
75	1.3	77
90	1.4	71
110	1.7	59
140	2.1	48
160	2.5	40
200	3.5	29
225	4.5	22
250	5.5	18
280	6.5	15
315	10.2	10
355	14.0	7
400	18.0	5

Note: The quantities specified above are to be understood as practice-orientated maximum values. In principle the quantities depend on gap dimensions, temperatures, working technique.

Preparations



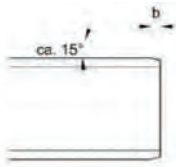
Cutting the pipe to length



Chamfering the pipe

The pipe must be cut off at right angles. Remove the inside edges and chamfer the outside ones as illustrated in the sketch. Only then is an optimal solvent cemented joint possible.

Important: Well-chamfered pipe ends prevent the layer of cement from being removed as the pipe is inserted into the fitting.



Pipe outside diameter mm	b
6 - 16 mm	1 - 2 mm
20 - 50 mm	2 - 3 mm
63 - 225 mm	3 - 6 mm
250 - 400 mm	6 - 8 mm



Marking the jointing length

Wipe the outside of the pipe and the inside of the socket with a clean cloth to remove obvious dirt. Marking the jointing length on the pipe end makes it possible to check afterwards whether the pipe has been inserted to the full extent of the socket.

Note: If the outside diameter of the pipe and the inside diameter of the socket are at opposite extremes of their tolerances, then the pipe cannot be inserted dry into the fitting socket. This will only become possible once the cement has been applied.



Checking the cement

The Tangit PVC-U cement is supplied ready for use. Stir thoroughly before using! Cement of the correct consistency will run evenly from a wooden spatula held at a slant. Cement which no longer runs smoothly is unusable. The cement must not be thinned.

For more information please consult the safety data-sheets under the following link:
www.sdb.henkel.de/index.cfm

Cement and cleaner should be stored in a cool, dry place (5–35 °C)! Under these conditions the cement and cleaner are durable for 24 months starting from the date of filling (imprinted on the tin).

Cementing

Clean the outside of the pipe end and the inside of the socket **thoroughly** with Tangit cleaner and absorbent paper. Use a fresh piece of paper for each component. Remove any condensation which may have formed on the parts.

Important: Pipe end and fitting socket must be dry and free from grease and dirt and must not be touched after cleaning.



Cleaning the pipe and socket

PVC-U pipes may have a waxy surface. To ensure proper jointing in such a case the cleaning process must be repeated until the pipe surface becomes matt to the eye.

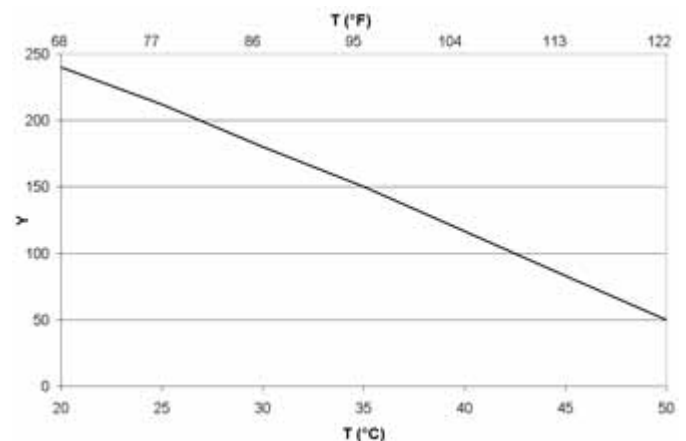
For the range of dimensions d250 - 400, mechanical machining of the pipe surface can be necessary in individual cases. An indication of inadequate jointing quality, which could be expected, is absence of or insufficient adhesion of the jointing parts following fine cleaning ("finger-nail check"). The jointing surfaces should then be roughened evenly with emery cloth of grain 80 or finer, observing the max. permitted gap.

PVC-U pipes should be cemented at temperatures between 5 °C and 40 °C. Take the following protective measures if the temperatures deviate from the above:

At lower temperatures, condensation or frost which may have formed must be removed, e. g. with warm air. Cement and cleaner should be stored at room temperature.

Avoid uneven overheating (→ shorten the opening time) when cementing at higher temperatures by protecting the jointing area from direct sunlight.

The quick curing time of the cement necessitates that the joint is made within the opening time after application of the cement has started. The opening time of the PVC-U cement varies with the ambient temperature and the thickness of the cement applied:



T Temperature in °C, °F

Y Opening time [sec]

Remark: When using Tangit Express the opening time is shortened at 20 °C to 1 minute and at 40 °C to 30 seconds. Therefore the maximum dimension is limited to 110 mm .



Applying the cement

Begin by applying a normal layer of cement to the fitting socket and then a thicker one to the pipe end with firm brush pressure. **Work in well.** The brush strokes should always be in an axial direction.

To ensure that both jointing surfaces are completely covered with a smooth, even layer of cement, the brush should be generously loaded with cement.

Range of dimensions up to d75

Apply cement

The cement joints can be produced by one person.

Jointing

After the cement has been applied, insert the pipe to the full depth of the socket immediately without twisting and bring them into the correct alignment. Ensure that the outlet of the fitting is in the correct position. Hold them briefly in this position to allow the cement to set.

Waiting time between cementing

Wait at least 5 minutes before the next joint, extend the waiting time at temperatures under 10 °C to 15 minutes.

Range of dimensions d90 to d225

Apply cement

The fitting socket and end of pipe should be coated with cement simultaneously by two persons, otherwise the opening time of the cement cannot be observed.

Jointing

After the cement has been applied, insert the pipe to the full depth of the socket immediately without twisting and bring them into the correct alignment. Ensure that the outlet of the fitting is in the correct position. Hold them briefly in this position to allow the cement to set.

Waiting time between cementing

Wait at least 5 minutes before the next joint, extend the waiting time at temperatures under 10 °C to 15 minutes.

Range of dimensions d250 to d400

Apply cement

Deviating from the usual method of application, pour the cement directly from the tin onto the middle of the cementing surface and distribute first radially and then axially all over with a flat brush. Make sure that the cement layer is consistent and covers the entire surface as appropriate for the larger tolerances.

Apply a thinner layer of Tangit in the fitting than on the pipe ends. The cementing of pipe work in this range of dimensions should be carried out by at least 2 persons. The minimum thickness of the cement layer for fittings is 1 mm, apply more generously on the pipe ends.

Jointing

After applying the cement, the pipe and fitting should be slowly pushed together to the stop or the mark without twisting by 3-4 persons and aligned. Ensure that the outlet end of the fitting is in the correct position. Hold the joint in this position for 1 minute.

Waiting time between cementing

A waiting time of 15 minutes should be observed before further jointing; this time should be increased to 30 minutes at temperatures below 10 °C.



Replace the lid of the cement tin during work breaks

Remove any surplus cement immediately, using absorbent paper.

A bead of excess solvent cement around the complete external circumference of the joint and a slightly smaller bead again around the complete internal circumference show that the joint has been performed correctly.

After use, clean the brush of excess cement with dry absorbent paper and then clean thoroughly using TANGIT cleaner. Brushes must be dry before being re-used (shake out).

Replace the lid of the cement tin after use to prevent the solvent evaporating. Using the conical lid allows leaving the brush in the cement tin during breaks.

Both solvent cement and cleaner dissolve PVC-U. Pipes and fittings must therefore not be laid on or allowed to come into contact with spilled cement or paper containing cement residues.

Do not close off cement pipelines during the drying process. This is particularly important at temperatures below + 5 °C, when there is otherwise a danger of damaging the material.

After the drying process (see waiting times in the following table) the pipelines can be filled. To remove extant solvent vapour, it is recommended to flush the pipeline before use.

For pipes that are not put into immediate use, it is recommended, after careful cleaning, to fill them with water and flush regularly.

Do not use compressed air for flushing.

Drying period and pressure testing

The drying period of the cement before application of the test or working pressure depends on the drying temperature, the dimension and the fit conditions.

The waiting times required between completing the last joint and the pressure test are specified in the following table.

If the pipe is only subjected to the operating pressure, e. g. after adaptation or repair work, the following rule of thumb for the drying waiting time applies:

1 hour waiting time per bar operating pressure.

For temperatures above 20 °C the test pressure must be reduced according to the requirements given in the chapter "Final testing and commissioning".

Remark: When using Tangit Express (only up to d110) the waiting time is shortened to 12 hours, or 1/4-hour waiting time per bar operating pressure.

Dimension	Nominal pressure (PN) of fitting 20 °C, water	Max. working pressure 20 °C, water
up to d225	PN10 or PN16	10 or 16 bar
d250	PN10	10 bar
d280	PN10	10 bar
d315	PN6	6 bar
d350	PN6	6 bar
d400	PN6	6 bar

Dimension	Max. test pressure 20 °C, water	Waiting time after last cementing until test
up to d225	15 or 21 bar	15 or 24 h
d250	15 bar	24 h
d280	15 bar	
d315	9 bar	
d350	9 bar	
d400	9 bar	

Safety precautions

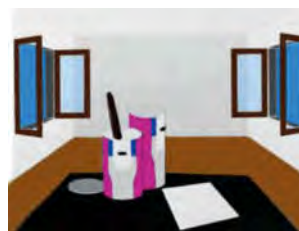
Tangit cement and Tangit cleaner contain highly volatile solvents. This makes good ventilation or adequate fume extraction essential in closed spaces. Since the solvent fumes are heavier than air, extraction must occur at floor level, or at least below the working level. Place paper which has been used for cleaning or for the removal of surplus cement into closed containers to minimise the amount of solvent fumes in the air.

Cement and cleaner are inflammable. Extinguish open fires before commencing work. Switch off unprotected electrical apparatus, electric heaters, etc. Avoid static charge. Do not smoke! Discontinue any welding operations. Furthermore, observe all instructions issued by the solvent cement manufacturer (e. g. label of the tin and any supplementary documentation).

Protect pipes and fittings from spilled solvent cement, cleaner and absorbent paper which has been used to wipe off cement. Do not dispose of surplus solvent cement or cleaner in drainage systems.

The use of protective gloves is recommended to avoid contact with skin. If the cement or the cleaner get in contact with eyes, rinse immediately with water. Consult a doctor! Immediately change clothes that have solvent cement on them.

Always obey the safety regulations issued by the authorities responsible.



Adequate ventilation of the workplace



No open flames when cementing. No smoking.

Instructions for Tangit solvent cement jointing of PVC-C dimension d16 to d225

General

Solvent cement jointing calls for adequate technical know-how, which can be acquired in the appropriate training courses. Your GF representative will gladly provide you with information about training possibilities.

NOTICE

Chemical resistance

Selecting applicable solvent cement

- Please consider the appropriate recommendations in the chapter "Chemical Resistance" to the use of Tangit and/or Dytex.

Dimensions and tolerances

The dimensions of GF pipes, fittings and valves conform generally to the various national standards as well as to ISO 727-1 concerning dimensions of sockets. Our fittings and valves can be used with any PVC-C pipes whose outside diameter tolerance conforms to ISO 11922-1.

According to ISO 727-1 the following minimal cement lengths are as shown in the table:

Pipe outside diameter - Socket inside diameter d (mm)	Minimal cement length L (mm)
16	13.0
20	15.0
25	17.5
32	21.0
40	25.0
50	30.0
63	36.5
75	42.5
90	50.0
110	60.0
125	67.5
140	75.0
160	85.0
200	105.0
225	117.5

The following instructions for cementing of piping components made from PVC-C is based on the guideline DVS 2204-5.

Tools and equipment

Pipe cutter Type KRA	d10 - 63 d50 - 110 d110 - 160	790 109 001 790 109 002 790 109 003
Pipe cutter type KS 355	230 V / 50 - 60 Hz	790 202 001
Chamfering tool	d16-75 d32-200	799 495 145 799 495 146
Cleaner	1 litre tin	799 298 010
Tangit PVC-C solvent cement	0.70 kg tin	799 298 027
Brush sizes		
Pipe outside diameter in mm	Brush	
16-32	Round brush ø8 mm	799 299 002
40-63	Flat brush 1" 25 x 3 mm	799 299 003
75-225	Flat brush 2" 50 x 5 mm	799 299 004
Tin lid		799 298 028
White absorbent paper	commercially available	
Solvent resistant protecting gloves, Safety glasses	commercially available	



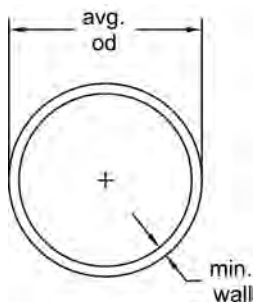
Solvent cementing equipment

UPVC Imperial - Sch 80 Pipe & Fittings

Pipes - Sch 80 Grey Pipe ASTM D1785

Plain End Pipe - 20 ft lengths

Max Water Pressure at 73°F (22.7°C) with solvent-cemented joints



Size [inch]	Plain End Code	
1/8	H0800013PG2000	
1/4	H0800025PG2000	
3/8	H0800038PG2000	
1/2	H0800050PG2000	
3/4	H0800075PG2000	
1	H0800100PG2000	
1 1/4	H0800125PG2000	
1 1/2	H0800150PG2000	
2	H0800200PG2000	
2 1/2	H0800250PG2000	
3	H0800300PG2000	
3 1/2	H0800350PG2000	
4	H0800400PG2000	
5	H0800500PG2000	
6	H0800600PG2000	
8	H0800800PG2000	
10	H0801000PG2000	
12	H0801200PG2000	
14	H0801400PG2000	
16	H0801600PG2000	
18	H0801800PG2000	
20	H0802000PG2000	
24	H0802400PG2000	

Pipe Size [inch]	Lift Qty. (20ft Lgths) [ft]	Average O.D. [inch]	Average I.D. [inch]	min. wall [inch]	Wt/Ft [lbs/ft]	Max Water Pressure [psi]	
1/8		0.405	0.203	0.095	0.058	1230	
1/4		0.540	0.288	0.119	0.100	1130	
3/8		0.675	0.407	0.126	0.138	920	
1/2	5700	0.840	0.528	0.147	0.202	850	
3/4	5260	1.050	0.724	0.154	0.273	690	
1	4280	1.315	0.935	0.179	0.402	630	
1 1/4	2360	1.660	1.256	0.191	0.554	520	
1 1/2	2060	1.900	1.476	0.200	0.673	470	
2	1660	2.375	1.913	0.218	0.932	400	
2 1/2	1080	2.875	2.289	0.276	1.419	420	
3	840	3.500	2.864	0.300	1.903	370	
3 1/2		4.000	3.326	0.318	2.322	350	
4	520	4.500	3.786	0.337	2.782	320	
5	400	5.563	4.767	0.375	3.867	290	
6	340	6.625	5.709	0.432	5.313	280	
8	220	8.625	7.565	0.500	8.058	250	
10	80	10.750	9.492	0.593	11.956	230	
12	60	12.750	11.294	0.687	16.437	230	
14	60	14.000	12.410	0.750	19.790	220	
16	40	16.000	14.214	0.843	25.430	220	
18	60	18.000	16.014	0.937	31.830	220	
20	40	20.000	17.814	1.031	40.091	220	
24	40	24.000	21.418	1.218	56.882	210	

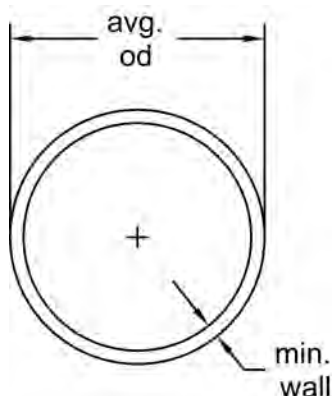
PF 2 H1 H18 001

inch	Pressure Rating of Pipe at Service Temperature (bar)						
	23°C	32°C	38°C	43°C	49°C	54°C	60°C
½	55.427	43.820	36.241	29.214	23.357	17.570	12.884
¾	47.403	35.552	29.351	23.702	18.948	14.193	10.404
1	43.407	32.590	26.871	21.704	17.363	13.022	9.577
1¼	35.828	26.871	22.186	17.914	14.331	10.748	7.855
1½	32.452	24.322	20.119	16.192	12.953	9.715	7.166
2	27.836	20.877	17.294	13.918	11.162	8.337	6.132
2½	29.283	21.979	18.121	14.607	11.713	8.750	6.408
3	25.838	19.361	16.054	12.953	10.335	7.786	5.719
4	22.324	16.743	13.849	11.162	8.957	6.683	4.892
6	19.223	14.400	11.920	9.646	7.717	5.788	4.203
8	16.949	12.747	10.542	8.475	6.752	5.099	3.721
10	15.847	Data available on request					
12	15.847						
14	15.158						
16	15.158						

- 1 Figures for pressure rating at 23°C are rounded off from actual calculated values. Pressure ratings for other temperatures are calculated from 23°C values.
- 2 Pressure rating values are for PVC (12454-B) pipe and for most values are calculated from the experimentally determined long term strength of PVC1 extrusion compounds. Because moulding compounds may differ in long term strength and elevated temperature properties from pipe compounds, piping systems consisting of extruded pipe and moulding fittings may have lower pressure ratings than those shown here, particularly at the higher temperatures. Caution should be exercised when designing PVC systems operating above 40°C.
- 3 Pressure ratings given for solvent cemented systems. When adding valves, flanges or other components, the system must be derated to the rating of the lowest component. (Pressure ratings: Mould or cut threads are rated at 50% of solvent cemented systems; flanges and unions are 10 bar; for valves see manufacturer's recommendation).

PVC Schedule 40 Grey Pipe - 20' Length

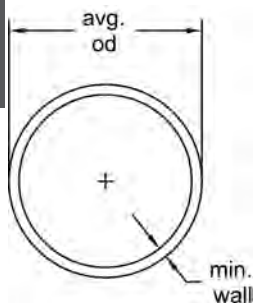
Max Water Pressure at 73°F (22.7°C) with solvent-cemented joints
Belled-end pipe available upon request



Size [inch]	Plain End Code
1/8	H0400013PG2000
1/4	H0400025PG2000
3/8	H0400038PG2000
1/2	H0400050PG2000
3/4	H0400075PG2000
1	H0400100PG2000
1 1/4	H0400125PG2000
1 1/2	H0400150PG2000
2	H0400200PG2000
2 1/2	H0400250PG2000
3	H0400300PG2000
3 1/2	H0400350PG2000
4	H0400400PG2000
5	H0400500PG2000
6	H0400600PG2000
8	H0400800PG2000
10	H0401000PG2000
12	H0401200PG2000
14	H0401400PG2000
16	H0401600PG2000
18	H0401800PG2000
20	H0402000PG2000
24	H0402400PG2000

Size [inch]	Lift Qty [ft]	Average O.D. [inch]	Average I.D. [inch]	min. wall [inch]	Wt/Ft [lbs/ft]	Max Water Pressure [psi]
1/8		0.405	0.261	0.068	0.045	810
1/4		0.540	0.354	0.088	0.081	780
3/8		0.675	0.483	0.091	0.109	620
1/2	5700	0.840	0.608	0.109	0.161	600
3/4	5260	1.050	0.810	0.113	0.214	480
1	4280	1.315	1.033	0.133	0.315	450
1 1/4	2360	1.660	1.364	0.140	0.426	370
1 1/2	2060	1.900	1.592	0.145	0.509	330
2	1660	2.375	2.049	0.154	0.682	280
2 1/2	1080	2.875	2.445	0.203	1.076	300
3	840	3.500	3.042	0.216	1.409	260
3 1/2		4.000	3.520	0.226	1.697	240
4	520	4.500	3.998	0.237	2.006	220
5	400	5.563	5.017	0.258	2.726	190
6	340	6.625	6.031	0.280	3.535	180
8	220	8.625	7.943	0.332	5.305	160
10	80	10.750	9.976	0.365	7.532	140
12	60	12.750	11.890	0.406	9.949	130
14	60	14.000	13.072	0.437	11.810	130
16	60	16.000	14.940	0.500	15.416	130
18	40	18.000	16.809	0.562	20.112	130
20	40	20.000	18.743	0.593	23.624	120
24	40	24.000	22.544	0.687	32.873	120

PF 2 H1 H16 001



PVC Clear Pipe - 10 ft. lengths

Meets ASTM D 1785

Material: PVC Transparent

10ft. or 2.9m Lengths

* Material: PVC Transparent

* Meets ASTM D 1785

* 10ft. or 2.9m lengths

Figures for pressure rating at 23°C are rounded off from actual calculated values.

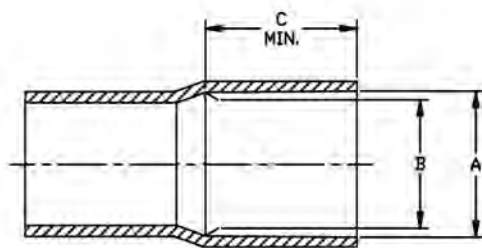
Pressure ratings for other temperatures are calculated from 23°C values.

Pressure rating values are for PVC (12454-B) pipe and for most values are calculated from the experimentally determined long term strength of PVC1 extrusion compounds. Because moulding components may differ in long term strength and elevated temperature properties from pipe compounds, piping systems consisting of extruded pipe and moulding fittings may have lower pressure ratings than those shown here, particularly at the higher temperatures. Caution should be exercised when designing PVC systems operating above 40°C.

Pressure ratings given are for solvent cemented systems. When adding valves, flanges or other components, the system must be derated to the rating of the lowest component. (Pressure ratings: Moulded or cut threads are rated at 50% of solvent cemented systems, flanges and unions are 10 bar, for valves see manufacturers recommendations).

Also see this catalogue for pipe clips.

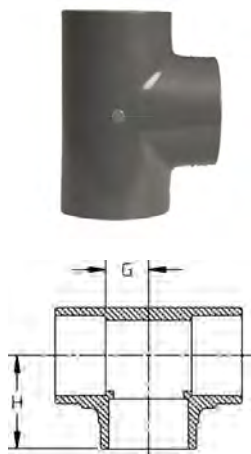
Size [inch]	Avg. OD [mm]	Avg. Wall [mm]	Avg. ID [mm]	Pressure Rating of Pipe at Service Tem- perature (bar) @ 23°C	Code	SP	Weight [kg]
1/2	21	3	15	21	200 060 180	0	0.314
3/4	27	3	21	17	200 060 181	0	0.426
1	33	4	26	16	200 060 182	0	0.638
1 1/4	42	4	35	13	200 060 183	0	0.881
1 1/2	48	4	40	12	200 060 184	0	1.081
2	60	4	52	10	200 060 185	0	1.452
2 1/2	73	6	62	11	200 060 186	0	2.227
3	89	6	77	9	200 060 187	0	2.956
4	114	6	102	8	200 060 188	0	4.228
6	168	8	153	7	200 060 189	0	8.214
8	219	8			200 060 190	0	12.943
10	273	9			200 060 461	0	15.000



Fittings

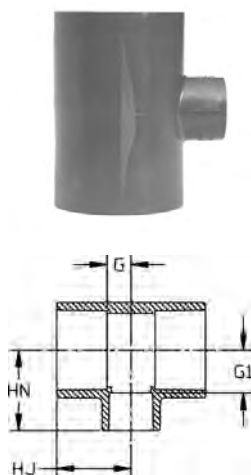
Schedule 80 PVC Pressure Fittings

Tee (S x S x S)



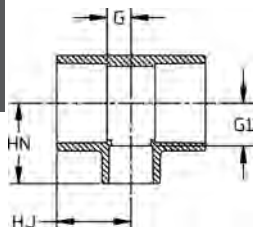
Size [inch]	P/L	Code	Pack Qty	H [inch]	G [inch]	Design	
1/4	08	801-002	50		0.29	HS	
3/8	08	801-003	50		0.40	HS	
1/2	08	801-005	25		0.50	SL	
3/4	08	801-007	25		0.56	SL	
1	08	801-010	20		0.72	SL	
1 1/4	08	801-012	10		0.91	SL	
1 1/2	08	801-015	10		1.06	SL	
2	08	801-020	10		1.29	SL	
2 1/2	08	801-025	5		1.50	SL	
3	08	801-030	5		1.85	SL	
4	08	801-040	5		2.38	SL	
6	08	801-060	2		3.55	SL	
8	08	801-080	1		4.59	SL	
10	02	801-100	1		5.75	SL	
12	02	801-120	1		6.81	SL	
14	05	801-140N	1		10.88	FAB	
16	05	801-160N	1		12.13	FAB	
18	05	801-180N	1		13.00	FAB	
20	05	801-200N	1		14.00	FAB	
24	05	801-240N	1		17.00	FAB	

Reducing Tee (S x S x S)



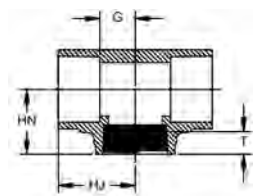
Size [inch]	P/L	Code	Pack Qty	HJ [inch]	HN [inch]	G [inch]	G1 [inch]	Design	
3/4 - 1/2	08	801-101	25	1.63	1.63	0.61	0.73	SL	
1 - 1/2	08	801-130	25	1.88	1.63	0.73	0.75	SL	
1 - 3/4	08	801-131	20	1.88	1.87	0.73	0.86	SL	
1 1/4 - 1	08	801-168	20	2.00	2.00	0.73	0.91	SL	
1 1/2 - 1/2	08	801-209	5	1.91	1.93	0.54	1.05	SL	
1 1/2 - 3/4	08	801-210	5	2.00	2.00	0.61	1.05	SL	
1 1/2 - 1	08	801-211	5	2.13	2.20	0.73	0.81	SL	
2 - 1/2	08	801-247	5	2.04	2.19	0.53	1.30	SL	
2 - 3/4	08	801-248	5	2.13	2.31	0.73	1.29	SL	
2 - 1	08	801-249	5	2.25	2.44	0.73	1.26	SL	
2 - 1 1/4	08	801-250FB	5	2.78	3.11	1.29	1.85	BUSH	
2 - 1 1/2	08	801-251	5	2.56	2.69	1.05	1.29	SL	
2 1/2 - 2	08	801-292	5	3.04	3.03	1.28	1.53	SL	
3 - 2	08	801-338	5	3.21	3.40	1.31	1.87	SL	
4 - 3/4	08	801-416FB	5	3.52	4.18	1.26	3.15	BUSH	
4 - 1		801-417	5	3.52	4.18	1.26	3.15		
4 - 1 1/2	08	801-419FB	5	3.52	4.16	1.26	2.77	BUSH	
4 - 2	08	801-420	5	3.52	3.88	1.26	2.37	SL	
4 - 3	08	801-422	5	4.15	4.31	1.87	2.39	SL	
6 - 3/4	08	801-524FB	2	6.58	7.46	3.49	6.43	BUSH	
6 - 1	08	801-525FB	2	6.58	7.21	3.56	5.65	BUSH	
6 - 2	08	801-528FB	2	6.58	7.21	3.56	5.65	BUSH	
6 - 3	08	801-530FB	2	6.58	7.21	3.49	5.26	BUSH	
6 - 4	08	801-532	2	6.58	6.81	3.49	4.50	HS	
8 - 4	08	801-582FB	1	7.63	8.09	3.59	5.84	BUSH	
8 - 6	08	801-585	1	7.63	7.52	3.59	4.50	SL	
10 - 2	05	801-619N	1	9.75	12.75	4.75	11.50	FAB	
10 - 3	05	801-621N	1	10.25	12.50	5.25	11.00	FAB	
10 - 4	05	801-623N	1	10.75	11.75	5.75	9.75	FAB	
10 - 6	05	801-626N	1	11.88	12.75	6.88	9.75	FAB	
10 - 6	02	801-626FB	1	10.85	11.98	5.75	8.88	BUSH	
10 - 8	05	801-628N	1	12.88	13.75	7.88	9.75	FAB	
10 - 8	02	801-628FB	1	10.85	11.41	5.75	7.32	BUSH	
12 - 2	05	801-659N	1	11.00	13.75	5.00	12.50	FAB	
12 - 3	05	801-661N	1	11.50	13.50	5.50	12.00	FAB	
12 - 4	05	801-663N	1	12.00	12.75	6.00	10.75	FAB	

table continued next page



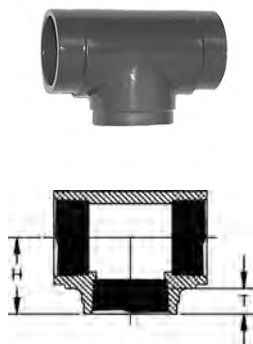
Size [inch]	P/L	Code	Pack Qty	HJ [inch]	HN [inch]	G [inch]	G1 [inch]	Design	
12 - 6	05	801-666N	1	13.13	13.75	7.13	10.75	FAB	
12 - 8	05	801-668N	1	14.13	14.75	8.13	10.75	FAB	
12 - 8	02	801-668FB	1	13.00	13.69	6.81	9.25	BUSH	
12 - 10	05	801-670N	1	15.13	16.75	9.13	10.75	FAB	
12 - 10	02	801-670FB	1	13.00	13.53	6.81	8.44	BUSH	
14 - 2	05	801-692N	1	12.13	14.50	5.13	13.13	FAB	
14 - 3	05	801-694N	1	12.63	14.25	5.63	12.75	FAB	
14 - 4	05	801-696N	1	13.13	13.50	6.13	11.50	FAB	
14 - 6	05	801-698N	1	14.25	14.50	7.25	11.50	FAB	
14 - 8	05	801-700N	1	15.25	15.50	8.25	11.50	FAB	
14 - 10	05	801-702N	1	16.25	16.50	9.25	11.50	FAB	
14 - 12	05	801-704N	1	17.25	18.50	10.25	12.50	FAB	
16 - 2	05	801-726N	1	13.38	12.75	5.38	11.50	FAB	
16 - 3	05	801-728N	1	13.88	13.75	5.88	12.25	FAB	
16 - 4	05	801-730N	1	14.38	14.75	6.38	12.75	FAB	
16 - 6	05	801-732N	1	15.50	15.75	7.50	12.75	FAB	
16 - 8	05	801-734N	1	16.50	16.75	8.50	12.75	FAB	
16 - 10	05	801-736N	1	17.50	17.75	9.50	12.75	FAB	
16 - 12	05	801-738N	1	18.50	19.75	10.50	13.75	FAB	
16 - 14	05	801-740N	1	19.13	20.75	11.13	13.75	FAB	
18 - 4	05	801-784N	1	15.63	16.00	6.63	14.00		
18 - 6	05	801-786N	1	16.75	17.00	7.75	14.00		
18 - 8	05	801-788N	1	17.75	18.00	8.75	14.00		
18 - 10	05	801-790N	1	18.75	19.00	9.75	14.00		
18 - 12	05	801-792N	1	19.75	21.00	10.75	15.00		
18 - 14	05	801-794N	1	20.38	22.00	10.75	15.00		
18 - 16		801-796N	1	21.38	24.00	12.38	16.00		
20 - 4		801-814N	1	16.88	17.25	6.88	15.25		
20 - 6		801-816N	1	18.00	18.25	8.00	15.25		
20 - 8		801-818N	1	19.00	19.25	9.00	15.00		
20 - 10		801-820N	1	20.00	20.25	10.00	15.25		
20 - 12		801-822N	1	21.00	22.25	11.00	16.25		
20 - 14		801-824N	1	21.63	23.25	11.63	16.25		
20 - 16		801-826N	1	22.63	25.25	12.63	17.25		
20 - 18		801-828N	1	23.63	27.25	13.63	18.25		
24 - 4		801-904N	1	19.38	19.50	7.38	17.50		
24 - 6		801-906N	1	20.50	20.50	8.50	17.50		
24 - 8		801-908N	1	21.50	21.50	9.50	17.50		
24 - 10		801-910N	1	22.50	22.50	10.50	17.50		
24 - 12		801-912N	1	23.50	24.50	11.50	18.50		
24 - 14		801-914N	1	24.13	25.50	12.13	18.50		
24 - 16		801-916N	1	25.13	27.50	13.13	19.50		
24 - 18		801-918N	1	26.13	0.50	14.13	20.50		
24 - 20		801-920N	1	27.13	32.50	15.13	20.50		

Tee (S x S x FPT)



Size [inch]	P/L	Code	Pack Qty	HJ [inch]	HN [inch]	G [inch]	T [inch]	Design	
½	08	802-005	25	1.39	1.39	0.52	0.53	HS	
¾	08	802-007	25	1.58	1.37	0.58	0.55	HS	
1	08	802-010	15	1.83	1.70	0.70	0.68	HS	
1 ½	08	802-015	5	2.42	2.08	1.03	0.72	HS	
2	08	802-020	5	2.79	2.35	1.28	0.76	HS	

Tee (FPT x FPT x FPT)



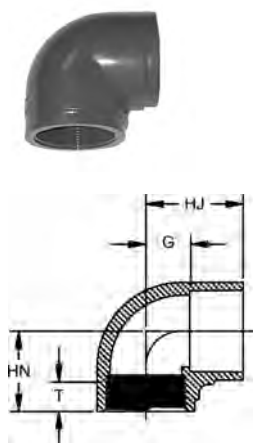
Size [inch]	P/L	Code	Pack Qty	H [inch]	T [inch]	Design	
1/4	08	805-002	50	0.92	0.40	HS	
3/8	08	805-003	50	1.16	0.41	HS	
1/2	08	805-005	25	1.27	0.53	HS	
3/4	08	805-007	25	1.38	0.55	HS	
1	08	805-010	15	1.70	0.68	HS	
1 1/4	08	805-012	10	1.93	0.71	HS	
1 1/2	08	805-015	5	2.08	0.72	HS	
2	08	805-020	5	2.35	0.76	HS	
2 1/2	08	805-025	5	2.88	1.14	HS	
3	08	805-030	5	3.50	1.20	HS	
4	08	805-040	5	4.06	1.30	HS	

90° EII (S x S)



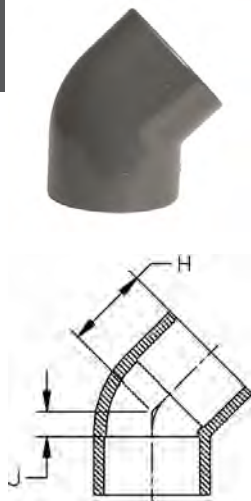
Size [inch]	P/L	Code	Pack Qty	H [inch]	G [inch]	Design	
1/4	08	806-002	50	0.95	0.33	HS	
3/8	08	806-003	50	1.17	0.41	HS	
1/2	08	806-005	25	1.41	0.50	SL	
3/4	08	806-007	25	1.61	0.56	SL	
1	08	806-010	10	1.86	0.69	SL	
1 1/4	08	806-012	10	2.16	0.91	SL	
1 1/2	08	806-015	10	2.41	1.03	SL	
2	08	806-020	20	2.78	1.28	SL	
2 1/2	08	806-025	5	3.29	1.53	SL	
3	08	806-030	5	3.75	1.85	SL	
4	08	806-040	5	4.60	2.34	SL	
6	08	806-060	2	6.70	3.69	SL	
8	08	806-080	1	8.67	4.59	SL	
10	02	806-100	1	10.75	5.75	SL	
12	02	806-120	1	12.63	6.86	SL	
14	05	806-140N	1	26.00	19.25	FAB	
16	05	806-160N	1	29.75	22.00	FAB	
18	05	806-180N	1	33.50	24.50	FAB	
20	05	806-200N	1	37.25	27.25	FAB	
24	05	806-240N	1	44.75	32.75	FAB	

90° EII (S x FPT)



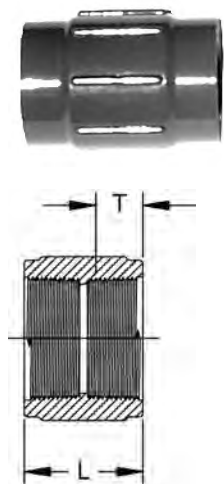
Size [inch]	P/L	Code	Pack Qty	HJ [inch]	HN [inch]	G [inch]	T [inch]	Design	
1/2	08	807-005	25	1.80	1.28	0.50	0.53	HS	
3/4	08	807-007	25	1.57	1.38	0.56	0.55	HS	
1	08	807-010	10	1.82	1.70	0.69	0.68	HS	
1 1/4	08	807-012	10	2.16	1.93	0.91	0.71	HS	
1 1/2	08	807-015	10	2.41	2.07	1.03	0.72	HS	
2	08	807-020	5	2.78	2.35	1.28	0.76	HS	
3	08	807-030	5	3.75	3.50	1.85	1.20	HS	

45° EII (S x S)



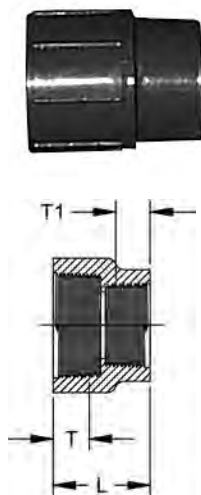
Size [inch]	P/L	Code	Pack Qty	H [inch]	J [inch]	Design	
¼	08	817-002	50	0.81	0.13	HS	
⅜	08	817-003	50	0.94	0.19	HS	
½	08	817-005	25	1.21	0.25	SL	
¾	08	817-007	20	1.32	0.33	SL	
1	08	817-010	25	1.47	0.29	SL	
1 ¼	08	817-012	15	1.70	0.40	SL	
1 ½	08	817-015	10	1.88	0.44	SL	
2	08	817-020	5	2.16	0.60	SL	
2 ½	08	817-025	5	2.53	0.76	SL	
3	08	817-030	5	2.66	0.78	SL	
4	08	817-040	5	3.24	0.95	SL	
6	08	817-060	2	4.81	1.74	SL	
8	08	817-080	2	6.11	2.02	SL	
10	02	817-100	1	7.50	2.50	SL	
12	02	817-120	1	9.00	3.00	SL	
14	05	817-140N	1	10.25	3.50	FAB	
16	05	817-160N	1	11.75	3.75	FAB	
18	05	817-180N	1	13.25	4.25	FAB	
20	05	817-200N	1	14.75	4.75	FAB	
24	05	817-240N	1	17.75	5.75	FAB	

Coupling (FPT x FPT)

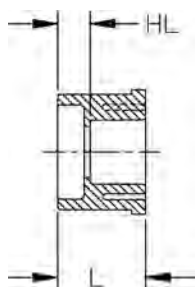


Size [inch]	P/L	Code	Pack Qty	L [inch]	T [inch]	Design	
¼	08	830-002	50	1.30	0.40	HS	
⅜	08	830-003	50	1.34	0.41	HS	
½	08	830-005	25	1.66	0.53	HS	
¾	08	830-007	20	1.73	0.55	HS	
1	08	830-010	25	2.10	0.68	HS	
1 ¼	08	830-012	10	2.19	0.71	HS	
1 ½	08	830-015	10	2.22	0.72	HS	
2	08	830-020	5	2.29	0.76	HS	
2 ½	08	830-025	5	3.39	1.14	HS	
3	08	830-030	5	3.57	1.20	HS	
4	08	830-040	5	3.73	1.30	HS	

Reducing Coupling (FPT x FPT)



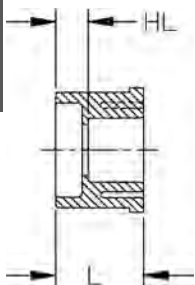
Size [inch]	P/L	Code	Pack Qty	L [inch]	T [inch]	T1 [inch]	Design	
⅜ - ¼	08	830-052	50	1.29	0.41	0.40	HS	
½ - ¼	08	830-072	50	1.45	0.53	0.40	HS	
½ - ⅜	08	830-073	50	1.46	0.53	0.41	HS	
¾ - ½	08	830-101	25	1.69	0.55	0.53	HS	
1 - ½	08	830-130	25	1.83	0.68	0.53	HS	
1 - ¾	08	830-131	25	1.88	0.68	0.55	HS	
1 ¼ - ¾	08	830-167	25	1.91	0.71	0.55	HS	
1 ½ - 1	08	830-211	20	2.11	0.72	0.68	HS	
2 - 1 ½	08	830-251	10	2.11	0.76	0.72	HS	



Flush Style Reducer Bushing (SPG x S)

Size [inch]	P/L	Code	Pack Qty	HL [inch]	L [inch]	Design
½ - ¼	08	837-072	50	0.46	1.14	FLUSH
½ - ⅜	08	837-073	50	0.32	1.10	FLUSH
¾ - ½	08	837-101	50	0.40	1.29	FLUSH
1 - ½	08	837-130	50	0.54	1.42	FLUSH
1 - ¾	08	837-131	50	0.44	1.42	FLUSH
1 ¼ - ½	08	837-166	25	0.66	1.56	FLUSH
1 ¼ - ¾	08	837-167	25	0.55	1.57	FLUSH
1 ¼ - 1	08	837-168	25	0.42	1.57	FLUSH
1 ½ - ½	08	837-209	25	0.77	1.68	FLUSH
1 ½ - ¾	08	837-210	25	0.67	1.69	FLUSH
1 ½ - 1	08	837-211	25	0.55	1.68	FLUSH
1 ½ - 1 ¼	08	837-212	25	0.42	1.70	FLUSH
2 - ½	08	837-247	10	0.88	1.79	FLUSH
2 - ¾	08	837-248	10	0.78	1.81	FLUSH
2 - 1	08	837-249	10	0.66	1.81	FLUSH
2 - 1 ¼	08	837-250	10	0.56	1.82	FLUSH
2 - 1 ½	08	837-251	10	0.40	1.80	FLUSH
2 ½ - 1 ½	08	837-291	5	0.96	2.43	FLUSH
2 ½ - 2	08	837-292	5	0.55	2.13	FLUSH
3 - 1	08	837-335FB	5	1.53	3.09	BUSH
3 - 1 ¼	08	837-336FB	5	1.45	2.72	BUSH
3 - 1 ½	08	837-337	5	0.92	2.43	FLUSH
3 - 2	08	837-338	5	0.87	2.43	FLUSH
3 - 2 ½	08	837-339	5	0.39	2.23	FLUSH
4 - 2	08	837-420	5	1.15	2.72	FLUSH
4 - 3	08	837-422	5	0.77	2.76	FLUSH
6 - 3	08	837-530	2	1.41	3.66	FLUSH
6 - 4	08	837-532	2	1.13	3.66	FLUSH
8 - 6	08	837-585	2	1.56	4.66	FLUSH
10 - 4	02	837-623FB	1	3.91	6.16	BUSH
10 - 4	05	837-623N	1	3.25	5.25	FAB
10 - 6	02	837-626	1	2.57	5.66	FLUSH
10 - 8	02	837-628	1	1.57	5.66	FLUSH
12 - 4		837-663N	1	4.25	6.25	
12 - 6	02	837-666FB	1	4.19	7.29	BUSH
12 - 6	05	837-666N	1	3.25	6.25	FAB
12 - 8	02	837-668	1	2.63	6.72	FLUSH
12 - 10	02	837-670	1	1.63	6.72	FLUSH
14 - 4	05	837-696N	1	5.25	7.25	FAB
14 - 6	05	837-698N	1	4.25	7.25	FAB
14 - 8	05	837-700N	1	3.25	7.25	FAB
14 - 10	05	837-702N	1	2.25	7.25	FAB
14 - 12	05	837-704N	1	1.25	7.25	FAB
16 - 4	05	837-730N	1	6.25	8.25	FAB
16 - 6	05	837-732N	1	5.25	8.25	FAB
16 - 8	05	837-734N	1	4.25	8.25	FAB
16 - 10	05	837-736N	1	3.25	8.25	FAB
16 - 12	05	837-738N	1	2.25	8.25	FAB
16 - 14	05	837-740N	1	1.25	8.25	FAB
18 - 4	05	837-784N	1	7.25	9.25	FAB
18 - 6	05	837-786N	1	6.25	9.25	FAB
18 - 8	05	837-788N	1	5.25	9.25	FAB
18 - 10	05	837-790N	1	4.25	9.25	FAB
18 - 12	05	837-792N	1	3.25	9.25	FAB
18 - 14	05	837-794N	1	2.25	9.25	FAB
18 - 16	05	837-796N	1	1.25	9.25	FAB
20 - 4	05	837-814N	1	8.25	10.25	FAB
20 - 6	05	837-816N	1	7.25	10.25	FAB
20 - 8	05	837-818N	1	6.25	10.25	FAB
20 - 10	05	837-820N	1	5.25	10.25	FAB
20 - 12	05	837-822N	1	4.25	10.25	FAB
20 - 14	05	837-824N	1	3.25	10.25	FAB
20 - 16	05	837-826N	1	2.25	10.25	FAB
20 - 18	05	837-828N	1	1.25	10.25	FAB
24 - 4	05	837-904N	1	10.25	12.25	FAB
24 - 6	05	837-906N	1	9.25	12.25	FAB

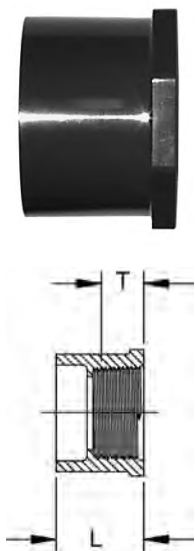
table continued next page



Size [inch]	P/L	Code	Pack Qty	HL [inch]	L [inch]	Design	
24 - 8	05	837-908N	1	8.25	12.25	FAB	
24 - 10	05	837-910N	1	7.25	12.25	FAB	
24 - 12	05	837-912N	1	6.25	12.25	FAB	
24 - 14	05	837-914N	1	5.25	12.25	FAB	
24 - 16	05	837-916N	1	4.25	12.25	FAB	
24 - 18	05	837-918N	1	3.25	12.25	FAB	
24 - 20	05	837-920N	1	2.25	12.25	FAB	

Flush Style Reducer Bushing (SPG x FPT)

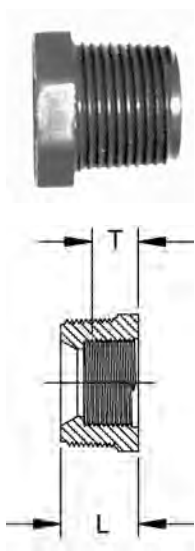
• --> Placeholder



Size [inch]	P/L	Code	Pack Qty	L [inch]	T [inch]	Design	
3/8 - 1/4	08	838-052E	50	0.98	0.40	Extended	
1/2 - 1/4	08	838-072	50	1.14	0.40	FLUSH	
1/2 - 3/8	08	838-073	50	1.12	0.41	FLUSH	
3/4 - 1/4	08	838-098	50	1.21	0.40	FLUSH	
3/4 - 1/2	08	838-101	50	1.28	0.53	FLUSH	
1 - 1/2	08	838-130	50	1.42	0.53	FLUSH	
1 - 3/4	08	838-131	50	1.41	0.55	FLUSH	
1 1/4 - 1/2	08	838-166	15	1.53	0.53	FLUSH	
1 1/4 - 3/4	08	838-167	15	1.56	0.55	FLUSH	
1 1/4 - 1	08	838-168	15	1.55	0.68	FLUSH	
1 1/2 - 1/2	08	838-209	15	1.68	0.53	FLUSH	
1 1/2 - 3/4	08	838-210	15	1.68	0.55	FLUSH	
1 1/2 - 1	08	838-211	15	1.69	0.68	FLUSH	
1 1/2 - 1 1/4	08	838-212	15	1.68	0.71	FLUSH	
2 - 1/2	08	838-247	10	1.80	0.53	FLUSH	
2 - 3/4	08	838-248	10	1.80	0.55	FLUSH	
2 - 1	08	838-249	10	1.79	0.68	FLUSH	
2 - 1 1/4	08	838-250	10	1.78	0.71	FLUSH	
2 - 1 1/2	08	838-251	10	1.79	0.72	FLUSH	
2 1/2 - 1 1/2	08	838-291	5	2.11	0.72	FLUSH	
2 1/2 - 2	08	838-292	5	2.20	0.76	FLUSH	
3 - 2	08	838-338	5	2.44	0.76	FLUSH	
3 - 2 1/2	08	838-339	5	2.20	1.14	FLUSH	
4 - 2	08	838-420	5	2.73	0.76	FLUSH	
4 - 3	08	838-422	5	2.69	1.20	FLUSH	

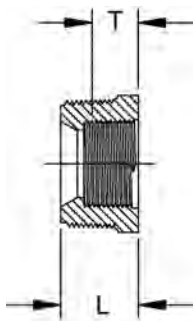
Flush Style Reducer Bushing (MPT x FPT)

• --> Placeholder

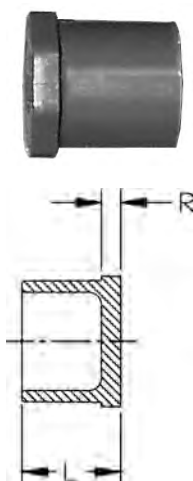


Size [inch]	P/L	Code	Pack Qty	L [inch]	T [inch]	Style	
3/8 - 1/4	08	839-052	50	0.79	0.40	FLUSH	
1/2 - 1/4	08	839-072	50	0.96	0.40	FLUSH	
1/2 - 3/8	08	839-073	50	0.94	0.40	FLUSH	
3/4 - 1/4	08	839-098	50	1.02	0.40	FLUSH	
3/4 - 3/8	08	839-099	50	1.02	0.41	FLUSH	
3/4 - 1/2	08	839-101	50	1.08	0.53	FLUSH	
1 - 1/4	08	839-128	25	1.22	0.40	FLUSH	
1 - 1/2	08	839-130	25	1.24	0.53	FLUSH	
1 - 3/4	08	839-131	25	1.27	0.55	FLUSH	
1 1/4 - 1/2	08	839-166	25	12.83	0.53	FLUSH	
1 1/4 - 3/4	08	839-167	25	1.29	0.55	FLUSH	
1 1/4 - 1	08	839-168	25	1.30	0.68	FLUSH	
1 1/2 - 3/4	08	839-210	25	1.33	0.55	FLUSH	
1 1/2 - 1	08	839-211	25	1.34	0.68	FLUSH	
1 1/2 - 1 1/4	08	839-212	25	1.32	0.71	FLUSH	
2 - 1/2	08	839-247	10	1.43	0.53	FLUSH	
2 - 3/4	08	839-248	10	1.43	0.55	FLUSH	

table continued next page

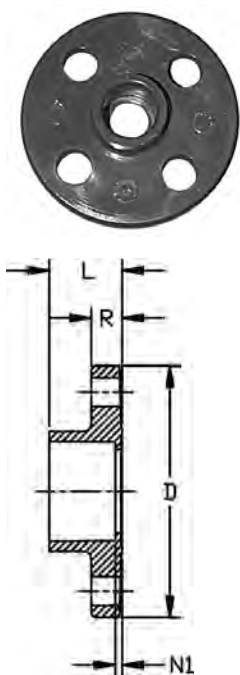


Size [inch]	P/L	Code	Pack Qty	L [inch]	T [inch]	Style	
2 - 1	08	839-249	10	1.43	0.68	FLUSH	
2 - 1 ¼	08	839-250	10	1.43	0.71	FLUSH	
2 - 1 ½	08	839-251	10	1.35	0.72	FLUSH	
3 - 2	08	839-338	5	2.03	0.76	FLUSH	
4 - 2	08	839-420	5	2.06	0.76	FLUSH	
4 - 3	08	839-422	5	2.06	1.20	FLUSH	



Plug (P)

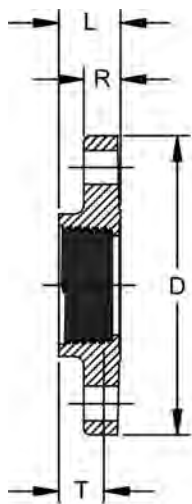
Size [inch]	P/L	Code	Pack Qty	L [inch]	R [inch]	
½	08	849-005	50	1.09	0.20	
¾	08	849-007	50	1.26	0.23	
1	08	849-010	25	1.41	0.25	
1 ½	08	849-015	20	1.71	0.31	
2	08	849-020	10	1.90	0.38	
4	08	849-040	5	2.64	0.39	



Flange - One Piece (S)

150 psi @ 73°F (10.3 bar @ 22.7°C)
HC = Honeycomb (Front)

Size [inch]	P/L	Code	Pack Qty	# holes	Bolt Dia. [inch]	bolt cir. dia. [inch]	D [inch]	L [inch]	N1 [inch]	R [inch]	Design	
½	08	851-005	5	4	½	2.38	3.50	1.03	0.15	0.44	HC	
¾	08	851-007	5	4	½	2.75	3.88	1.21	0.19	0.51	SOLID	
1	08	851-010	5	4	½	3.13	4.25	1.39	0.13	0.55	HC	
1 ¼	08	851-012	5	4	½	3.50	4.63	1.42	0.16	0.62	HC	
1 ½	08	851-015	5	4	½	3.88	5.00	1.54	0.16	0.72	HC	
2	08	851-020	5	4	⅝	4.75	6.00	1.77	0.16	0.75	HC	
2 ½	08	851-025	5	4	⅝	5.50	7.00	2.01	0.19	0.80	HC	
3	08	851-030	5	4	⅝	6.00	7.50	2.20	0.31	0.98	WEB	
4	08	851-040	5	8	⅝	7.50	9.00	2.55	0.22	1.24	WEB	
6	08	851-060	2	8	¾	9.50	11.00	3.86	0.34	1.32	HC	
8	08	851-080	2	8	¾	11.75	13.50	4.85	0.35	1.37	HC	



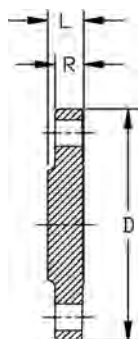
Flange - One Piece (FPT)

150 psi @ 73°F (10.3 bar @ 22.7°C)

HC = Honeycomb (Front)

Size [inch]	P/L	Code	Pack Qty	# holes	Bolt Dia. [inch]	bolt cir. dia. [inch]	D [inch]	L [inch]	T [inch]	R [inch]	Design
½	08	852-005	5	4	½	2.38	3.50	0.94	0.53	0.44	
¾	08	852-007	5	4	½	2.75	3.88	0.95	0.55	0.51	
1	08	852-010	5	4	½	3.13	4.25	1.13	0.68	0.55	
1 ¼	08	852-012	5	4	½	3.50	4.63	1.19	0.71	0.63	
1 ½	08	852-015	5	4	½	3.88	5.00	1.21	0.72	0.72	
2	08	852-020	5	4	¾	4.75	6.00	1.23	0.76	0.75	
2 ½	08	852-025	5	4	¾	5.50	7.00	1.23	1.14	0.80	
3	08	852-030	5	4	¾	6.00	7.50	1.88	1.20	0.98	
4	08	852-040	5	8	¾	7.50	9.00	1.99	1.30	1.24	

Flange (Blind)



150 psi @ 73°F (10.3 bar @ 22.7°C)

10", 12", 14" & 16" 50 psi @ 73°F (3.5 bar @ 22.7°C)

HC = Honeycomb (Front)

Size [inch]	P/L	Code	Pack Qty	# holes	Bolt Dia. [inch]	bolt cir. dia. [inch]	D [inch]	L [inch]	R [inch]	Design
½	08	853-005	5	4	½	2.38	3.50	0.50	0.43	HC
¾	08	853-007	5	4	½	2.75	3.88	0.50	0.44	HC
1	08	853-010	5	4	½	3.13	4.25	0.60	0.57	HC
1 ¼	08	853-012	5	4	½	3.50	4.63	0.63	0.56	HC
1 ½	08	853-015	5	4	½	3.88	5.00	0.82	0.71	HC
2	08	853-020	5	4	¾	4.75	6.00	0.92	0.74	HC
2 ½	08	853-025	5	4	¾	5.50	7.00	0.96	0.78	HC
3	08	853-030	5	4	¾	6.00	7.50	1.03	0.89	WEB
4	08	853-040	5	8	¾	7.50	9.00	1.35	1.12	HC
6	08	853-060	2	8	¾	9.50	11.00	1.49	1.27	HC
8	08	853-080	2	8	¾	11.75	13.50	1.63	1.45	HC
10	05	853-100N	1	12	1	14.25	16.00	1.00	1.00	SOLID
12	05	853-120N	1	12	1	17.00	19.00	1.00	1.00	SOLID
14	05	853-140N	1	12	1	18.75	21.00	1.00	1.00	SOLID
16	05	853-160N	1	16	1	21.25	23.50	1.00	1.00	SOLID
18	05	853-180N	1	16	1 ½	22.75	25.00	1.00	1.00	SOLID
20	05	853-200N	1	20	1 ½	25.00	27.50	1.00	1.00	SOLID
24	05	853-240N	1	20	1 ¼	29.50	32.00	1.00	1.00	SOLID

Flange - Van Stone (S)

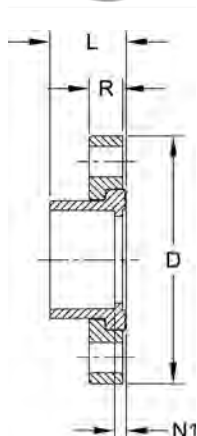


3" - 12" have CPVC Ring

150 psi @ 73°F (10.3 bar @ 22.7°C)

14" & 16" 100 psi @ 73°F (6.9 bar @ 22.7°C)

HC = Honeycomb (Front)



Size [inch]	P/L	Code	Pack Qty	# holes	Bolt Dia. [inch]	bolt cir. dia. [inch]	D [inch]	L [inch]	N1 [inch]	R [inch]	Design
½	08	854-005	5	4	½	2.38	3.50	1.03	0.11	0.57	HC
¾	08	854-007	5	4	½	2.75	3.88	1.15	0.13	0.58	HC
1	08	854-010	5	4	½	3.13	4.25	1.38	0.11	0.66	HC
1 ¼	08	854-012	5	4	½	3.50	4.63	1.45	0.14	0.69	HC
1 ½	08	854-015	5	4	½	3.88	5.00	1.59	0.15	0.76	HC
2	08	854-020	5	4	¾	4.75	6.00	1.76	0.20	0.82	HC
2 ½	08	854-025	5	4	¾	5.50	7.00	2.05	0.22	0.98	HC
3	08	854-030	5	4	¾	6.00	7.50	2.25	0.30	1.02	HC
4	08	854-040	5	8	¾	7.50	9.00	2.65	0.34	1.11	HC
6	08	854-060	2	8	¾	9.50	11.00	3.50	0.48	1.27	HC
8	08	854-080	2	8	¾	11.75	13.50	4.63	0.50	1.73	HC
10	02	854-100	2	12	¾	14.25	16.00	5.63	0.50	1.73	HC
12	02	854-120	2	12	¾	17.00	19.00	6.69	0.56	1.73	HC
14	05	854-140N	1	12	1	18.75	21.00	11.75	4.75	0.50	FAB
16	05	854-160N	1	16	1	21.25	23.50	13.50	5.50	1.00	FAB
			1								FAB
			1								FAB

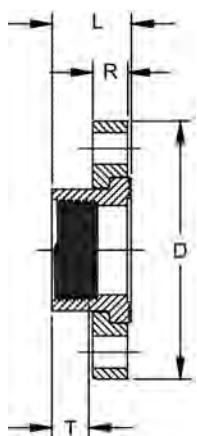
Flange - Van Stone (FPT)



3" - 12" have CPVC Ring

150 psi @ 73°F (10.3 bar @ 22.7°C)

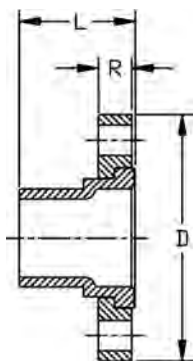
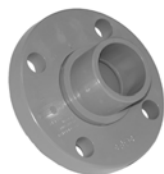
HC = Honeycomb (Front)



Size [inch]	P/L	Code	Pack Qty	# holes	Bolt Dia. [inch]	bolt cir. dia. [inch]	D [inch]	L [inch]	T [inch]	R [inch]	Design
½	08	855-005	5	4	½	2.38	3.50	1.03	0.53	0.57	HC
¾	08	855-007	5	4	½	2.75	3.88	1.15	0.55	0.58	HC
1	08	855-010	5	4	½	3.13	4.25	1.38	0.68	0.66	HC
1 ¼	08	855-012	5	4	½	3.50	4.63	1.45	0.71	0.69	HC
1 ½	08	855-015	5	4	½	3.88	5.00	1.59	0.72	0.76	HC
2	08	855-020	5	4	¾	4.75	6.00	1.76	0.76	0.82	HC
2 ½	08	855-025	5	4	¾	5.50	7.00	2.05	1.14	0.98	HC
3	08	855-030	5	4	¾	6.00	7.50	2.25	1.20	1.02	HC
4	08	855-040	5	8	¾	7.50	9.00	2.65	1.30	1.11	HC

Flange - Van Stone (SPG)

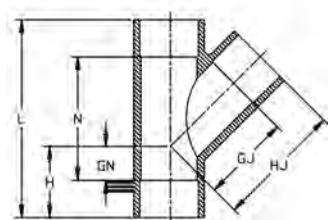
3" - 12" have Steel Ring
 150 psi @ 73°F (10.3 bar @ 22.7°C)
 HC = Honeycomb (Front)



Size [inch]	P/L	Code	Pack Qty	# holes	Bolt Dia. [inch]	bolt cir. dia. [inch]	D [inch]	L [inch]	R [inch]	Design
1/2	608	856-005	5	4	1/2	2.38	3.50	1.65	0.57	HC
3/4	608	856-007	5	4	1/2	2.75	3.88	1.78	0.58	HC
1	608	856-010	5	4	1/2	3.13	4.25	2.02	0.66	HC
1 1/4	608	856-012	5	4	1/2	3.50	4.63	2.20	0.69	HC
1 1/2	608	856-015	5	4	1/2	3.88	5.00	2.40	0.76	HC
2	608	856-020	5	4	5/8	4.75	6.00	2.72	0.82	HC
2 1/2	608	856-025	5	4	5/8	5.50	7.00	3.19	0.98	HC
3	608	856-030	5	4	5/8	6.00	7.50	3.52	1.02	HC
4	608	856-040	5	8	5/8	7.50	9.00	4.02	1.11	HC
6	608	856-060	2	8	3/4	9.50	11.00	5.00	1.37	HC
8	608	856-080	1	8	3/4	11.75	13.50	6.85	1.73	HC
10	602	856-100	1	12	7/8	14.25	16.00	8.33	1.73	HC
12	602	856-120	1	12	7/8	17.00	19.00	9.54	1.73	HC
14	A33	856-140N	1	12	1	18.75	21.00	13.00	0.50	FAB
16	A33	856-160N	1	16	1	21.25	23.50	14.00	0.50	FAB
18	A33	856-180N	1	16	1 1/8	22.75	25.00	16.00	0.50	FAB
20	A33	856-200N	1	20	1 1/8	25.00	27.50	18.00	0.50	FAB
24	A33	856-240N	1	20	1 1/4	29.50	32.00	20.00	0.50	FAB

45° Wye (S x S x S)

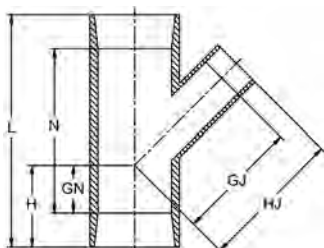
1-1/2" - 2" 235 psi @ 72°F (16.2 bar @ 22.7°C)
 3" - 6" 150 psi @ 72°F (10.3 bar @ 22.7°C)
 8" & Larger 100 psi @ 72°F (6.9 bar @ 22.7°C)



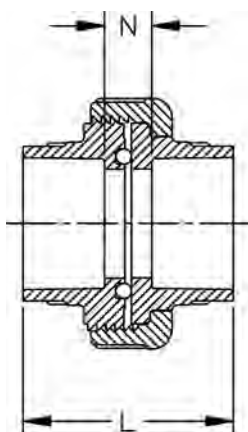
Size [inch]	P/L	Code	Pack Qty	GJ [inch]	GN [inch]	H [inch]	HJ [inch]	L [inch]	N [inch]	Design
1 1/2	08	870-015	20	2.41	0.69	2.06	3.75	5.81	3.06	SL
2	08	870-020	10	3.63	1.38	2.88	5.13	8.02	5.00	SL
3	08	870-030	4	5.00	1.87	3.77	6.90	10.46	6.65	SL
4	08	870-040	4	6.38	1.88	4.20	8.70	12.91	8.25	SL
6	08	870-060	2	8.50	1.81	4.86	11.59	16.50	10.39	HS
8	08	870-080	1	11.25	2.06	6.08	15.25	21.34	13.31	HS
10	05	875-100N	1	19.75	5.50	10.50	24.75	31.75	21.75	FAB
12	05	875-120N	1	22.63	6.50	12.50	28.63	37.50	25.50	FAB
14	05	875-140N	1	25.75	7.00	14.00	32.75	41.75	27.75	FAB
16	05	875-160N	1	28.88	7.75	15.75	36.88	47.25	31.25	FAB
18	05	875-180N	1	32.50	8.50	17.50	41.50	53.00	35.00	FAB
20	05	875-200N	1	35.50	9.50	19.50	45.50	58.75	38.75	FAB
24	05	875-240N	1	42.00	11.00	23.00	54.00	70.00	46.00	FAB

Reducing 45° Wye (S x S x S)

2" 235 psi @ 72°F (16.2 bar @ 22.7° C)
 3" - 6" 150 psi @ 72°F (10.3 bar @ 22.7°C)
 8" 100 psi @ 72°F (6.9 bar @ 22.7°C)



Size [inch]	P/L	Code	Pack Qty	GJ [inch]	GN [inch]	H [inch]	HJ [inch]	L [inch]	N [inch]	Design
2 - 1 ½		870-251FB	10	4.03	1.38	2.88	5.43	8.02	5.00	BUSH
3 - 1 ½	08	870-337FB	4	5.92	1.87	3.77	7.43	10.46	6.65	BUSH
3 - 2	08	870-338FB	4	5.87	1.87	3.77	7.43	10.46	6.65	BUSH
4 - 2	08	870-420FB	4	7.53	1.88	4.20	9.10	12.91	8.25	
4 - 3	08	870-422FB	4	7.15	1.88	4.20	9.14	12.91	8.25	BUSH
6 - 2	08	870-528FB	2	8.33	1.87	4.91	9.90	16.50	10.39	BUSH
6 - 3	08	870-530FB	2	9.95	1.87	4.91	12.09	16.50	10.39	
6 - 4	08	870-532	2	7.18	1.87	4.91	9.45	16.50	10.39	HS
8 - 4		870-582	1	9.53	0.38	4.39	11.79	16.03	7.63	HS
8 - 6		870-585FB	1	12.62	2.06	6.06	15.72	21.25	13.31	
10 - 4	05	875-623N	1	14.00	1.25	6.25	16.00	23.00	13.00	FAB
10 - 6	05	875-626N	1	16.13	2.75	7.75	19.13	26.00	16.00	FAB
10 - 8	05	875-628N	1	17.50	4.00	9.00	21.50	28.75	18.75	FAB
12 - 4	05	875-663N	1	15.50	0.50	6.50	17.50	25.75	13.75	FAB
12 - 6	05	875-666N	1	17.50	2.00	8.00	20.50	28.68	16.68	FAB
12 - 8	05	875-668N	1	19.00	3.50	9.50	23.00	31.50	19.50	FAB
12 - 10	05	875-670N	1	21.25	5.00	11.00	26.25	34.50	22.50	FAB
14 - 4	05	875-696N	1	16.25	0.25	7.25	18.25	28.25	14.25	FAB
14 - 6	05	875-698N	1	18.50	1.75	8.75	21.50	31.25	17.25	FAB
14 - 8	05	875-700N	1	19.75	3.00	10.00	23.75	34.00	20.00	FAB
14 - 10	05	875-702N	1	22.00	4.50	11.50	27.00	37.00	23.00	FAB
14 - 12	05	875-704N	1	23.50	6.00	13.00	29.50	39.75	25.75	FAB
16 - 4	05	875-730N	1	17.75	0.75	7.25	19.75	31.00	15.00	FAB
16 - 6	05	875-732N	1	19.88	1.00	9.00	22.88	34.00	18.00	FAB
16 - 8	05	875-734N	1	21.25	2.50	10.50	25.25	36.75	20.75	FAB
16 - 10	05	875-736N	1	23.50	4.00	12.00	28.50	39.75	23.75	FAB
16 - 12		875-738N	1	25.00	5.50	13.50	31.00	42.75	26.75	
16 - 14	05	875-740N	1	27.25	6.25	14.25	34.25	44.50	28.50	FAB
18 - 4	05	875-784N	1	19.00	1.25	7.75	21.00	34.00	16.00	FAB
18 - 6	05	875-786N	1	21.25	0.50	9.50	24.25	37.00	19.00	FAB
18 - 8	05	875-788N	1	22.75	2.00	11.00	26.75	39.75	21.75	FAB
18 - 10	05	875-790N	1	25.00	3.50	12.50	30.00	42.75	24.75	FAB
18 - 12	05	875-792N	1	26.50	4.75	13.75	32.50	45.50	27.50	FAB
18 - 14	05	875-794N	1	28.75	5.75	14.75	35.75	47.50	29.50	FAB
18 - 16	05	875-796N	1	30.25	7.25	16.25	38.25	50.25	32.25	FAB
20 - 4	05	875-814N	1	20.50	1.75	8.25	22.50	36.75	16.75	FAB
20 - 6	05	875-816N	1	22.75	0.25	9.75	25.75	39.75	19.75	FAB
20 - 8	05	875-818N	1	24.25	1.50	11.50	28.25	42.75	22.75	FAB
20 - 10	05	875-820N	1	26.50	3.00	13.00	31.50	45.75	25.75	FAB
20 - 12	05	875-822N	1	28.00	4.25	14.25	34.00	48.50	28.50	FAB
20 - 14	05	875-824N	1	30.25	5.25	15.25	37.25	50.25	30.25	FAB
20 - 16	05	875-826N	1	31.75	6.50	16.50	39.75	53.00	33.00	FAB
20 - 18	05	875-828N	1	34.00	8.00	18.00	43.00	56.00	36.00	FAB
24 - 4	05	875-904N	1	23.25	3.00	9.00	25.25	42.50	18.50	FAB
24 - 6	05	875-906N	1	25.50	1.50	10.50	28.50	45.50	21.50	FAB
24 - 8	05	875-908N	1	27.00	0.00	12.00	31.00	48.25	24.25	FAB
24 - 10	05	875-910N	1	29.25	1.75	13.75	34.25	51.25	27.25	FAB
24 - 12	05	875-912N	1	30.60	3.25	15.25	36.60	54.25	30.25	FAB
24 - 14	05	875-914N	1	33.00	4.00	16.00	40.00	56.00	32.00	FAB
24 - 16	05	875-916N	1	34.50	5.50	17.50	42.50	58.75	34.75	FAB
24 - 18	05	875-918N	1	36.75	6.75	18.75	45.75	61.50	37.50	FAB
24 - 20	05	875-920N	1	38.25	8.25	20.25	48.25	64.50	40.50	FAB



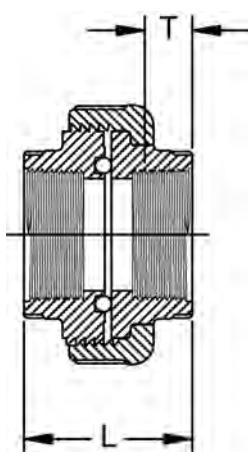
Union Type 375 (S x S)

235 psi @ 73°F (16.2 bar @ 22.7°C)

Size [inch]	P/L	EPDM Code	FPM Code	Pack Qty	L [inch]	N [inch]	
½	08	897-375-005	857-375-005	25	2.58	0.80	
¾	08	897-375-007	857-375-007	10	2.82	0.82	
1	08	897-375-010	857-375-010	5	3.14	0.88	
1 ¼	08	897-375-012	857-375-012	5	3.49	0.99	
1 ½	08	897-375-015	857-375-015	5	3.70	0.95	
2	08	897-375-020	857-375-020	2	4.11	1.11	

Union Type 375 (FPT X FPT)

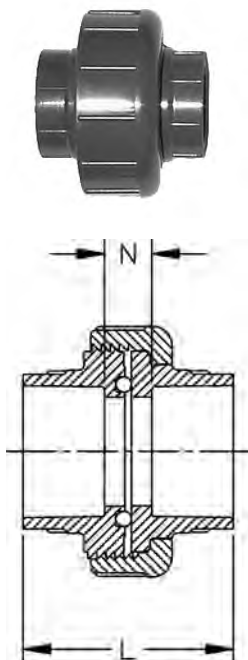
150 psi @ 73°F (10.3 bar @ 22.7°C)



Size [inch]	P/L	EPDM Code	FPM Code	Pack Qty	L [inch]	T [inch]	
½	08	898-375-005	858-375-005	25	2.03	0.53	
¾	08	898-375-007	858-375-007	10	2.11	0.55	
1	08	898-375-010	858-375-010	5	2.56	0.68	
1 ¼	08	898-375-012	858-375-012	5	2.79	0.71	
1 ½	08	898-375-015	858-375-015	5	2.72	0.72	
2	08	898-375-020	858-375-020	2	2.89	0.76	

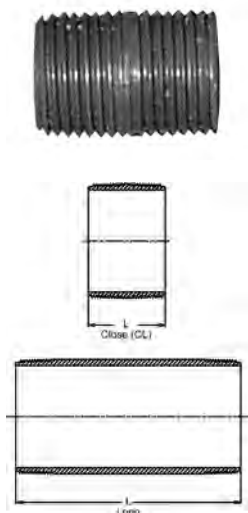
Union (SxS)

150 psi @ 73°F (10.3 bar @ 22.7°C)



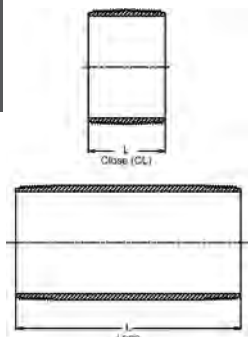
Size [inch]	P/L	EPDM Code	FPM Code	Pack Qty	L [inch]	N [inch]	
3	08	897-030	857-030	1	4.75	0.99	
4	08	897-040	857-040	1	5.72	1.14	

Nipple (MPT x MPT)



Inch [inch]	P/L	Code	Pack Qty	L [inch]	
1/2 x CL	608	861-077	50	1.13	
1/2 x 2	608	861-079	50	2.00	
1/2 x 3	608	861-081	50	3.00	
1/2 x 4	608	861-082	50	4.00	
1/2 x 5	608	861-083	50	5.00	
1/2 x 6	608	861-084	50	6.00	
1/2 x 8	608	861-086	50	8.00	
1/2 x 10	608	861-087	50	10.00	
1/2 x 12	608	861-088	50	12.00	
3/4 x CL	608	861-104	25	1.38	
3/4 x 2	608	861-020	25	2.00	
3/4 x 3	608	861-106	25	3.00	
3/4 x 4	608	861-107	25	4.00	
3/4 x 5	608	861-108	25	5.00	
3/4 x 6	608	861-109	25	6.00	
3/4 x 8	608	861-110	25	8.00	
3/4 x 10	608	861-111	25	10.00	
3/4 x 12	608	861-112	25	12.00	
1 x CL	608	861-133	25	1.50	
1 x 2	608	861-134	25	2.00	
1 x 3	608	861-135	25	3.00	
1 x 4	608	861-136	25	4.00	
1 x 5	608	861-137	25	5.00	
1 x 6	608	861-138	25	6.00	
1 x 8	608	861-139	25	8.00	
1 x 10	608	861-140	25	10.00	
1 x 12	608	861-141	25	12.00	
1 1/4 x CL	608	861-170	25	1.63	
1 1/4 x 2	608	861-171	25	2.00	
1 1/4 x 3	608	861-172	25	3.00	
1 1/4 x 4	608	861-173	25	4.00	
1 1/4 x 5	608	861-174	25	5.00	
1 1/4 x 6	608	861-175	25	6.00	
1 1/4 x 8	608	861-176	25	8.00	
1 1/4 x 10	608	861-177	25	10.00	
1 1/4 x 12	608	861-178	25	12.00	
1 1/2 x CL	608	861-213	25	1.75	
1 1/2 x 2	608	861-214	25	2.00	
1 1/2 x 3	608	861-215	25	3.00	

table continued next page



Inch [inch]	P/L	Code	Pack Qty	L [inch]	
1 1/2 x 4	608	861-216	25	4.00	
1 1/2 x 5	608	861-217	25	5.00	
1 1/2 x 6	608	861-218	25	6.00	
1 1/2 x 8	608	861-219	25	8.00	
1 1/2 x 10	608	861-220	25	10.00	
1 1/2 x 12	608	861-221	25	12.00	
2 x CL	608	861-251	25	2.00	
2 x 2 1/2	608	861-252	25	2.50	
2 x 3	608	861-253	25	3.00	
2 x 4	608	861-254	25	4.00	
2 x 5	608	861-255	25	5.00	
2 x 6	608	861-256	25	6.00	
2 x 8	608	861-257	25	8.00	
2 x 10	608	861-258	25	10.00	
2 x 12	608	861-259	25	12.00	
2 1/2 x CL	608	861-291	5	2.50	
2 1/2 x 3	608	861-292	5	3.00	
2 1/2 x 4	608	861-295	5	4.00	
2 1/2 x 5	608	861-296	5	5.00	
2 1/2 x 6	608	861-297	5	6.00	
2 1/2 x 8	608	861-298	5	8.00	
2 1/2 x 10	608	861-299	5	10.00	
2 1/2 x 12	608	861-300	5	12.00	
3 x CL	608	861-338	5	2.63	
3 x 3	608	861-340	5	3.00	
3 x 4	608	861-341	5	4.00	
3 x 5	608	861-342	5	5.00	
3 x 6	608	861-343	5	6.00	
3 x 8	608	861-344	5	8.00	
3 x 10	608	861-345	5	10.00	
3 x 12	608	861-346	5	12.00	
4 x CL	608	861-422	5	2.88	
4 x 4	608	861-423	5	4.00	
4 x 5	608	861-425	5	5.00	
4 x 6	608	861-426	5	6.00	
4 x 8	608	861-427	5	8.00	
4 x 10	608	861-428	5	10.00	
4 x 12	608	861-429	5	12.00	

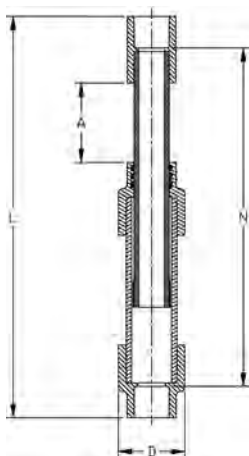


Expansion Joint 6" Travel (S x S)

To order SxSPG add "P" to end of part number.

To order FxF add "F" to end of part number.

Size [inch]	P/L	EPDM Code	FPM Code	A [inch]	D [inch]	L [inch]	N [inch]	
1/2	34	826-005X6	836-005X6	3.00	1.85	13.93	12	
3/4	34	826-007X6	836-007X6	3.00	2.23	14.40	12	
1	34	826-010X6	836-010X6	3.00	2.50	15.02	13	
1 1/4	34	826-012X6	836-012X6	3.00	2.50	15.81	13	
1 1/2	34	826-015X6	836-015X6	3.00	3.50	16.08	13	
2	34	826-020X6	836-020X6	3.00	4.39	18.10	15	
3	34	826-030X6	836-030X6	3.00	5.53	19.83	16	
4	34	826-040X6	836-040X6	3.00	7.93	27.56	23	
6	34	826-060X6	836-060X6	3.00	9.97	27.88	22	

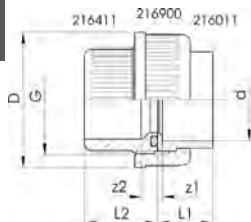


Expansion Joint 12" Travel (S x S)

To order SxSPG add "P" to end of part number.

To order FxF add "F" to end of part number.

Size [inch]	P/L	EPDM Code	FPM Code	A [inch]	D [inch]	L [inch]	N [inch]	
1/2	34	826-005X12	836-005X12	6.00	1.85	22.93	21.06	
3/4	34	826-007X12	836-007X12	6.00	2.23	23.40	21.46	
1	34	826-010X12	836-010X12	6.00	2.50	24.02	21.58	
1 1/4	34	826-012X12	836-012X12	6.00	2.50	24.81	22.05	
1 1/2	34	826-015X12	836-015X12	6.00	3.50	25.08	22.13	
2	34	826-020X12	836-020X12	6.00	4.39	27.10	23.88	
3	34	826-030X12	836-030X12	6.00	5.53	28.83	24.79	
4	34	826-040X12	836-040X12	6.00	7.93	36.56	32.01	
6	34	826-060X12	836-060X12	6.00	9.97	36.88	30.75	



Unions

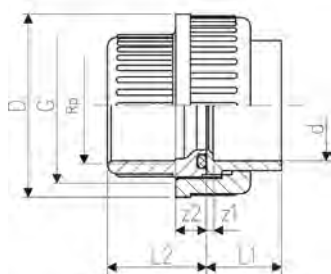
Union for solvent cement jointing PVC-U Inch BS

Model:

- Union End: Solvent cement socket BS Inch
- Union Bush: Solvent cement socket BS Inch
- Gasket: O-ring EPDM code no. 748 410 005-014

PN [bar]	d [inch]	d [mm]	EPDM Code	PF	SP	Weight [kg]
15	3/8		721 511 105	2 30 153 011	10	0.025
15	1/2		721 511 106	2 30 166 018	10	0.040
15	3/4		721 511 107	2 30 166 018	10	0.054
15	1		721 511 108	2 30 166 018	10	0.080
15	1 1/4		721 511 109	2 30 166 018	10	0.108
15	1 1/2		721 511 110	2 30 166 018	5	0.220
15	2		721 511 111	2 30 166 018	10	0.350
10	2 1/2	75	721 510 112	2 30 153 011	2	0.614

FPM Code	PF	SP	Weight [kg]	z1 [mm]	z2 [mm]	D [mm]	L1 [mm]	L2 [mm]	G/Tr [inch]
721 511 130	2 30 166 018	0	0.025	3	8	35	19	24	3/4
721 511 131	2 30 166 018	10	0.040	3	9	43	21	26	1
721 511 132	2 30 166 018	0	0.064	3	9	51	24	29	1 1/4
721 511 133	2 30 166 018	10	0.088	3	9	58	27	33	1 1/2
721 511 134	2 30 166 018	5	0.133	3	10	72	32	39	2
721 511 135	2 30 166 018	5	0.204	3	10	83	33	46	2 1/4
721 511 136	2 30 166 018	10	0.366	3	10	100	40	58	2 3/4
721 510 137	2 30 153 011	2	0.621	3	18	135	47	62	Tr108x5



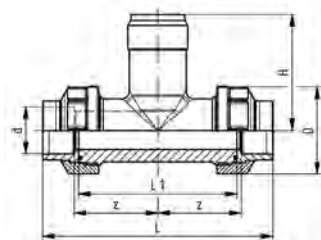
Adaptor union PVC-U Inch BS Rp

Model:

- Union End: Solvent cement socket BS Inch
- Union Bush: Parallel female thread Rp
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U
- Gasket: O-ring code no. 748 410 005-011

PN [bar]	Rp [inch]	d [inch]	Code	SP	Weight [kg]	z1 [mm]	z2 [mm]	D [mm]	L1 [mm]	L2 [mm]	G [inch]
10	3/8	3/8	721 511 205	0	0.025	3	13	35	17	24	3/4
10	1/2	1/2	721 511 206	10	0.042	3	13	43	19	26	1
10	3/4	3/4	721 511 207	0	0.068	3	14	51	22	29	1 1/4
10	1	1	721 511 208	10	0.094	3	15	58	25	32	1 1/2
10	1 1/4	1 1/4	721 511 209	10	0.168	3	19	72	29	38	2
10	1 1/2	1 1/2	721 511 210	2	0.223	3	26	83	34	45	2 1/4
10	2	2	721 511 211	2	0.405	3	33	100	41	56	2 3/4

PF 2 30 166 019



Installation fitting type 310 PVC-U For socket systems Inch BS

Model:

- Material: PVC-U
- Threaded outlet 1 1/4" NPSM
- Union end with solvent cement socket PVC-U

Range of use:

- compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- compatible signet pH/ORP sensors: type 2724, 2725, 2726

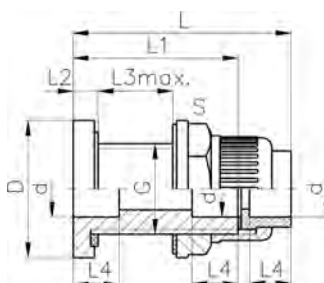
Attention:

- sensor length depends on installation fitting

d [inch]	DN [mm]	PN [bar]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
1/2	15	15	721 310 306	0	0.181	721 310 336	0	0.181
3/4	20	15	721 310 307	0	0.244	721 310 337	0	0.244
1	25	15	721 310 308	0	0.333	721 310 338	1	0.299
1 1/4	32	15	721 310 309	1	0.403	721 310 339	1	0.440
1 1/2	40	15	721 310 310	1	0.700	721 310 340	1	0.579
2	50	15	721 310 311	1	1.011	721 310 341	0	1.011

d [inch]	DN [mm]	L1 [mm]	D [mm]	H [mm]	L [mm]	z [mm]	Sensor Type
1/2	15	90	43	76	131	48	flow X0, pH XX
3/4	20	100	51	78	147	53	flow X0, pH XX
1	25	110	58	81	164	58	flow X0, pH XX
1 1/4	32	110	72	85	171	58	flow X0, pH XX
1 1/2	40	120	83	89	188	63	flow X0, pH XX
2	50	130	100	95	211	68	flow X0, pH XX

PF 2 98 930 003



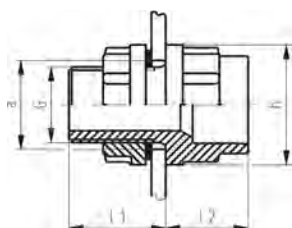
Tank adaptor for fix position stop PVC-U Inch BS

Model:

- End connection: Union with solvent cement socket BS Inch
- Gasket: flat gasket EPDM
- Gasket: O-ring FPM code no. 749 410 006-011 (to be ordered separately)

d [inch]	Code	SP	Weight [kg]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 max [mm]	L4 [mm]	G [inch]	s [mm]	Diameter of bore in tank side [mm]
1/2	161 050 226	1	0.122	56	89	67	11	30	16	1"	46	35
3/4	161 050 227	1	0.100	65	97	72	12	32	19	1 1/4"	50	43
1	161 050 228	1	0.231	70	103	75	12	33	22	1 1/2"	60	49
1 1/4	161 050 229	1	0.240	95	111	78	12	32	26	2"	80	61
1 1/2	161 050 230	1	0.463	95	119	82	13	32	31	2 1/4"	80	67
2	161 050 231	1	0.692	115	131	87	13	33	38	2 3/4"	95	83

PF 2 30 162 019



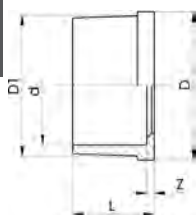
Tank adaptor for adjustable stop PVC-U Inch BS

Model:

- With solvent cement socket BS Inch and parallel female thread G
- Gasket: flat gasket EPDM
- Gasket: O-ring FPM code no. 749 410 006-007 (to be ordered separately)

d [inch]	PN [bar]	Code	SP	Weight [kg]	h [mm]	a [mm]	I2 [mm]	I1 [mm]	G [inch]
1/2	15	161 108 706	10	0.050	37	23	24	34	1/2
3/4	15	161 108 707	10	0.048	42	28	29	34	3/4

PF 2 30 162 031

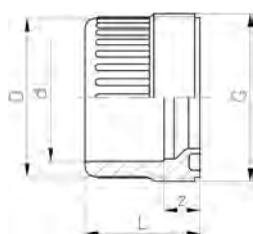


Union end PVC-U Inch BS

Model:

- Solvent cement socket BS inch

d [inch]	PN [bar]	Code	PF	SP	Weight [kg]	z [mm]	D [mm]	D1 [mm]	L [mm]	
3/8	15	721 601 105	2 30 166 999	0	0.001	3	24	22	19	
1/2	15	721 601 106	2 30 166 999	0	0.008	3	30	27	21	
3/4	15	721 601 107	2 30 166 999	10	0.013	3	38	36	24	
1	15	721 601 108	2 30 166 999	0	0.018	3	44	41	27	
1 1/4	15	721 601 109	2 30 166 999	500	0.033	3	56	53	32	
1 1/2	15	721 601 110	2 30 166 999	400	0.043	3	62	59	33	
2	15	721 601 111	2 30 166 999	170	0.077	3	78	74	40	
2 1/2	10	721 500 162	2 30 153 999	20	0.140	3	101	90	47	
3	9	721 601 113	2 30 166 999	0	0.196	6	110	105	56	



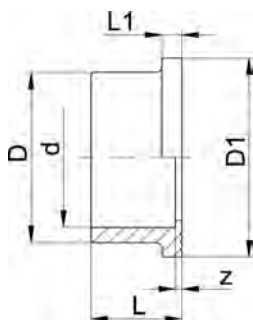
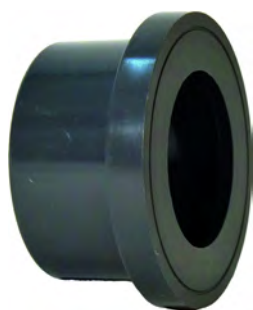
Union bush PVC-U Inch BS

Model:

- Solvent cement socket BS inch
- Jointing face: With O-Ring groove
- Gasket: O-ring EPDM code no. 748 410 005-015; d3 748 410 248

PN [bar]	d [inch]	Code	PF	SP	Weight [kg]	z [mm]	D [mm]	L [mm]	G [inch]	
15	3/8	721 841 105	2 30 166 999	10	0.010	8	24	24	3/4"	
15	1/2	721 841 106	2 30 166 999	10	0.012	9	29	26	1"	
15	3/4	721 841 107	2 30 166 999	10	0.021	9	34	29	1 1/4"	
15	1	721 841 108	2 30 166 999	10	0.031	9	42	33	1 1/2"	
15	1 1/4	721 841 109	2 30 166 999	10	0.056	10	52	39	2"	
15	1 1/2	721 841 110	2 30 166 999	10	0.075	10	62	46	2 1/4"	
15	2	721 841 111	2 30 166 999	10	0.139	10	78	58	2 3/4"	
9	3	721 641 123	2 30 153 999	0	0.371	19	110	69	Tr 128 x 5	

Flange adaptors



Flange adaptor PVC-U

Combined jointing face flat and serrated Inch BS

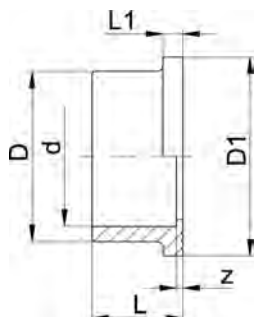
Model:

- Counterpart: flange adaptor BS Inch code no. 721 791 106-123, flange adaptor metric code no. 721 800 106-125
- Gasket: flat gasket EPDM code no. 748 400 306-323

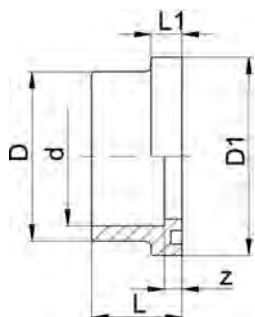
DN [mm]	d [inch]	PN [bar]	d [mm]	Code	PF	SP	Weight [kg]	
15	1/2	15		721 791 106	2 30 166 028	10	0.009	
20	3/4	15		721 791 107	2 30 166 028	10	0.014	
25	1	15		721 791 108	2 30 166 028	10	0.023	
32	1 1/4	15		721 791 109	2 30 166 028	10	0.035	
40	1 1/2	15		721 791 110	2 30 166 028	10	0.058	
50	2	15		721 791 111	2 30 166 028	5	0.107	
65	2 1/2	16	75	721 790 112	2 30 153 019	10	0.159	
80	3	15		721 791 113	2 30 166 028	20	0.269	
100	4	15		721 791 115	2 30 166 028	20	0.422	
125	5	16	140	721 790 116	2 30 153 019	6	0.725	
150	6	15		721 791 117	2 30 166 028	2	1.172	
200	8	9		721 791 120	2 30 166 028	2	2.028	
250	10	9		721 791 122	2 30 166 028	1	3.677	
300	12	6		721 791 123	2 30 166 028	1	3.418	

D1 [mm]	z [mm]	D [mm]	L [mm]	L1 [mm]	
34	3	27	21	6	
41	3	33	24	7	
50	3	41	27	7	
61	3	50	32	8	

table continued next page



D1 [mm]	z [mm]	D [mm]	L [mm]	L1 [mm]	
73	3	61	33	8	
91	3	77	40	9	
106	3	91	47	10	
125	5	108	56	11	
155	5	136	69	12	
188	5	165	81	14	
217	5	198	96	16	
274	6	248	122	20	
329	9	307	151	23	
379	4	346	172	27	



Flange adaptor PVC-U Jointing face with O-ring groove Inch BS

Model:

- Counterpart: flange adaptor BS 721 791 111-120
- Flange: PVC-U ANSI code no. 721 702 211-220, PP/steel ANSI code no. 727 701 211-319, PP-V ANSI code no. 727 701 411-419
- Gasket: O-ring EPDM code no. 748 410 013-163, FPM code no. 749 410 013-163

DN [mm]	d [inch]	d [mm]	PN [bar]	Code	PF	SP	Weight [kg]	
50	2		15	721 811 111	2 30 166 030	5	0.125	
65	2 ½	75	16	721 810 112	2 30 153 021	10	0.183	
125	5	140	16	721 810 116	2 30 153 021	6	0.804	
200	8		9	721 811 120	2 30 166 030	0	2.070	

D1 [mm]	z [mm]	D [mm]	L [mm]	L1 [mm]	
91	8	77	46	14	
106	8	91	52	15	
188	11	165	87	20	
274	12	248	128	26	

BS Fittings (inch) Fittings

Long radius bend 45° PVC-U Inch BS

Other angles and sizes are available on request

d [inch]	PN [bar]	Code	Weight [kg]	R [mm]	L [mm]	
½	15	721 151 176	0.175	51	50	
¾	15	721 151 177	0.321	76	63	
1	15	721 151 178	0.508	102	75	
1 ¼	15	721 151 179	0.103	127	100	
1 ½	15	721 151 180	0.152	152	112	
2	15	721 151 181	0.328	203	150	
2 ½	15	721 151 182	1.444	255	200	
3	15	721 151 183	1.125	305	238	
4	15	721 151 184	2.202	406	301	
6	9	721 151 185	10.260	610	451	

Long radius bend 90° PVC-U Inch BS

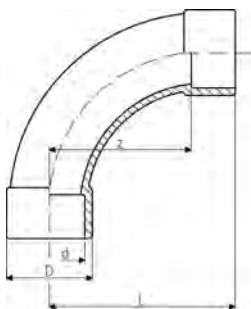
Other angles and sizes are available on request

d [inch]	PN [bar]	Code	Weight [kg]	L [mm]	R [mm]	
½	15	721 001 656	0.029	71	51	
¾	15	721 001 657	0.046	108	76	
1	15	721 001 658	0.073	133	102	
1 ¼	15	721 001 659	0.143	170	127	
1 ½	15	721 001 660	0.220	201	152	
2	15	721 001 661	0.480	272	203	
2 ½	15	721 001 662	1.444	340	255	
3	15	721 001 663	1.500	402	305	
4	15	721 001 664	3.146	544	406	
6	9	721 001 665	12.825	817	610	

Bend 90° short pattern PVC-U Inch BS

d [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	D [mm]	L [mm]	
8	9	721 011 120	1	8.297	168	256	287	

PF 2 30 165 002



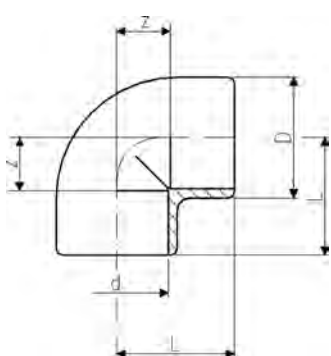
Bend 90° PVC-U Inch BS

d [inch]	PN [bar]	d [mm]	Code	PF	SP	Weight [kg]	z [mm]	D [mm]	L [mm]	
1/2	15	75	721 001 106	2 30 165 001	10	0.026	40	29	58	
3/4	15		721 001 107	2 30 165 001	10	0.047	50	35	71	
1	15		721 001 108	2 30 165 001	10	0.069	64	43	88	
1 1/4	15		721 001 109	2 30 165 001	5	0.206	80	54	109	
1 1/2	15		721 001 110	2 30 165 001	5	0.312	100	64	131	
2	15		721 001 111	2 30 165 001	5	0.556	126	76	163	
2 1/2	16		721 000 112	2 30 152 001	5	0.798	150	90	194	
3	15		721 001 113	2 30 165 001	5	1.763	180	113	231	
4	15		721 001 115	2 30 165 001	2	2.667	220	137	284	
5	16		721 000 116	2 30 152 001	2	5.204	280	168	356	
6	15	140	721 001 117	2 30 165 001	1	7.700	320	201	411	



Elbow 45° PVC-U Inch BS

PN [bar]	d [inch]	d [mm]	Code	PF	SP	Weight [kg]	z [mm]	D [mm]	L [mm]	
15	3/8	75	721 151 105	2 30 165 004	10	0.008	4	22	19	
15	1/2		721 151 106	2 30 165 004	10	0.012	5	27	21	
15	3/4		721 151 107	2 30 165 004	10	0.020	6	33	25	
15	1		721 151 108	2 30 165 004	10	0.037	8	41	30	
15	1 1/4		721 151 109	2 30 165 004	10	0.060	10	51	37	
15	1 1/2		721 151 110	2 30 165 004	5	0.089	11	58	41	
15	2		721 151 111	2 30 165 004	5	0.137	14	72	50	
16	2 1/2		721 150 112	2 30 152 004	5	0.253	17	87	61	
15	3		721 151 113	2 30 165 004	5	0.534	20	107	70	
15	4		721 151 115	2 30 165 004	10	0.957	25	134	89	
16	5	140	721 150 116	2 30 152 004	1	1.570	32	162	108	
15	6	140	721 151 117	2 30 165 004	2	2.900	38	198	129	
9	8		721 151 120	2 30 165 004	1	5.214	52	250	168	



Elbow 90° PVC-U Inch BS

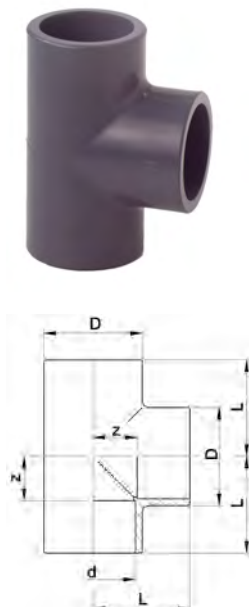
d [inch]	PN [bar]	d [mm]	Code	PF	SP	Weight [kg]	z [mm]	D [mm]	L [mm]	
3/8	15	75	721 101 105	2 30 165 003	10	0.016	10	24	25	
1/2	15		721 101 106	2 30 165 003	10	0.022	13	27	30	
3/4	15		721 101 107	2 30 165 003	10	0.025	14	33	34	
1	15		721 101 108	2 30 165 003	10	0.038	17	40	39	
1 1/4	15		721 101 109	2 30 165 003	10	0.079	22	51	49	
1 1/2	15		721 101 110	2 30 165 003	10	0.116	26	58	56	
2	15		721 101 111	2 30 165 003	1	0.215	32	72	68	
2 1/2	16		721 100 112	2 30 152 003	5	0.336	40	87	83	
3	15		721 101 113	2 30 165 003	5	0.606	46	107	97	
4	15		721 101 115	2 30 165 003	6	1.343	59	137	122	
5	16	140	721 100 116	2 30 152 003	4	1.945	70	162	146	
6	15	140	721 101 117	2 30 165 003	1	4.121	86	201	176	

Tee 45° PVC-U Inch BS



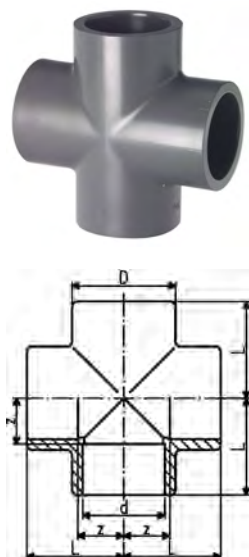
PN [bar]	d [mm]	d1 [mm]	Code	PF	SP	Weight [kg]	z [mm]	z1 [mm]	D [mm]	L [mm]	L1 [mm]	
9		1/2	721 251 106	2 30 165 006	10	0.035	30	6	28	68	46	
9		3/4	721 251 107	2 30 165 006	10	0.052	35	8	33	83	55	
9		1	721 251 108	2 30 165 006	10	0.090	43	8	41	99	67	
9		1 1/4	721 251 109	2 30 165 006	10	0.145	55	9	50	118	82	
9		1 1/2	721 251 110	2 30 165 006	10	0.274	67	13	60	140	97	
9		2	721 251 111	2 30 165 006	10	0.476	87	16	74	175	123	
6	75	2 1/2	721 250 112	2 30 152 007	5	0.816	101	18	91	207	145	
6		3	721 251 113	2 30 165 006	1	1.324	122	20	107	245	173	
6		4	721 251 115	2 30 165 006	3	2.403	147	25	134	298	210	
6	140	5	721 250 116	2 30 152 007	1	5.628	190	34	168	376	266	

Tee 90° equal PVC-U Inch BS

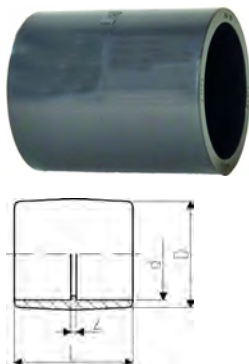


d [inch]	PN [bar]	d1 [mm]	Code	PF	SP	Weight [kg]	z [mm]	D [mm]	L [mm]	
3/8	15		721 201 105	2 30 165 005	10	0.018	10	25	25	
1/2	15		721 201 106	2 30 165 005	10	0.036	13	30	30	
3/4	15		721 201 107	2 30 165 005	10	0.051	16	35	37	
1	15		721 201 108	2 30 165 005	10	0.079	19	43	43	
1 1/4	15		721 201 109	2 30 165 005	10	0.105	22	50	51	
1 1/2	15		721 201 110	2 30 165 005	5	0.157	26	57	56	
2	15		721 201 111	2 30 165 005	5	0.294	32	72	68	
2 1/2	16	75	721 200 112	2 30 152 005	5	0.476	39	87	83	
3	15		721 201 113	2 30 165 005	5	0.847	46	107	97	
4	15		721 201 115	2 30 165 005	8	1.864	59	138	122	
5	16	140	721 200 116	2 30 152 005	1	3.410	71	169	147	
6	15		721 201 117	2 30 165 005	1	5.521	86	202	176	
8	9		721 201 120	2 30 165 005	1	10.742	114	256	233	

Cross PVC-U Inch BS



d [inch]	PN [bar]	d1 [mm]	Code	PF	SP	Weight [kg]	z [mm]	D [mm]	L [mm]	
3/4	12		721 301 107	2 30 165 007	10	0.050	14	36	33	
1	12		721 301 108	2 30 165 007	10	0.081	17	44	39	
1 1/4	12		721 301 109	2 30 165 007	5	0.130	22	53	49	
1 1/2	12		721 301 110	2 30 165 007	5	0.299	30	64	60	
2	12		721 301 111	2 30 165 007	5	0.556	37	80	74	
2 1/2	10	75	721 300 112	2 30 152 008	3	0.725	40	92	83	



Socket equal PVC-U Inch BS

PN [bar]	d [inch]	d [mm]	Code	PF	SP	Weight [kg]	z [mm]	D [mm]	L [mm]
15	3/8	75	721 911 105	2 30 165 010	10	0.007	3	23	32
15	1/2		721 911 106	2 30 165 010	10	0.011	3	27	36
15	3/4		721 911 107	2 30 165 010	10	0.018	3	33	45
15	1		721 911 108	2 30 165 010	10	0.029	3	41	51
15	1 1/4		721 911 109	2 30 165 010	10	0.048	3	51	57
15	1 1/2		721 911 110	2 30 165 010	10	0.070	3	58	63
15	2		721 911 111	2 30 165 010	5	0.128	3	72	77
16	2 1/2		721 910 112	2 30 152 011	10	0.188	4	87	92
15	3		721 911 113	2 30 165 010	10	0.350	7	104	107
15	4		721 911 115	2 30 165 010	15	0.606	8	134	135
16	5	140	721 910 116	2 30 152 011	2	1.118	7	162	159
15	6		721 911 117	2 30 165 010	2	1.800	11	197	192
9	8		721 911 120	2 30 165 010	1	4.140	10	253	248

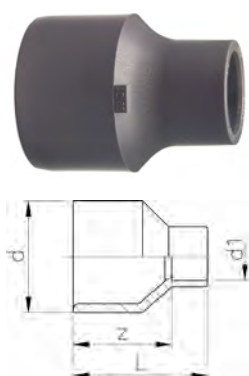


Reducing bush short pattern PVC-U Inch BS

Model:

- With solvent cement spigot and socket metric

	d [inch]	d1 [inch]	PN [bar]	Code	PF	SP	Weight [kg]	z [mm]	L [mm]
*	1/2	3/8	15	721 901 334	2 30 165 008	10	0.003	2	18
*	3/4	3/8	15	721 901 338	2 30 165 008	10	0.013	5	21
*	3/4	1/2	15	721 901 337	2 30 165 008	10	0.006	3	21
	1	3/8	15	721 901 343	2 30 165 008	10	0.013	8	24
	1	1/2	15	721 901 342	2 30 165 008	10	0.015	6	24
	1	3/4	15	721 901 341	2 30 165 008	10	0.010	3	24
	1 1/4	3/8	15	721 901 349	2 30 165 008	10	0.024	13	29
	1 1/4	1/2	15	721 901 348	2 30 165 008	10	0.023	11	29
	1 1/4	3/4	15	721 901 347	2 30 165 008	10	0.025	8	29
	1 1/4	1	15	721 901 346	2 30 165 008	10	0.018	5	29
	1 1/2	1/2	15	721 901 355	2 30 165 008	10	0.033	13	30
	1 1/2	3/4	15	721 901 354	2 30 165 008	10	0.034	10	30
*	1 1/2	1	15	721 901 353	2 30 165 008	10	0.038	6	30
*	1 1/2	1 1/4	15	721 901 352	2 30 165 008	10	0.018	2	30
	2	3/4	15	721 901 361	2 30 165 008	10	0.060	16	37
	2	1	15	721 901 360	2 30 165 008	10	0.063	13	37
	2	1 1/4	15	721 901 359	2 30 165 008	10	0.070	8	37
	2	1 1/2	15	721 901 358	2 30 165 008	10	0.051	6	37
	2 1/2	2	15	721 901 364	2 30 165 008	10	0.094	8	45
	3	1	15	721 901 374	2 30 165 008	10	0.178	3	50
	3	1 1/2	15	721 901 372	2 30 165 008	10	0.176	3	50
	3	2	15	721 901 371	2 30 165 009	10	0.178	3	50
	3	2 1/2	15	721 901 370	2 30 165 008	10	0.124	6	51
	4	3	15	721 901 381	2 30 165 008	20	0.340	13	64
	5	4	15	721 901 384	2 30 165 008	12	0.530	13	76
	6	5	15	721 901 388	2 30 165 008	5	0.830	15	91
	8	6	9	721 901 396	2 30 165 008	2	1.769	33	119



Reducing bush long pattern PVC-U Inch BS

Model:

- With solvent cement spigot and socket metric

d1 [inch]	d [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	L [mm]
3	5	15	721 911 386	10	0.730	111	162
4	6	15	721 911 389	6	1.312	133	197

PF 2 30 165 009

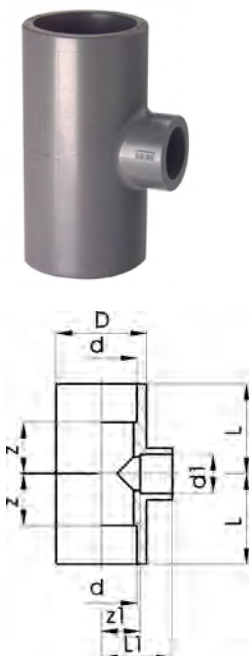


Cap PVC-U Inch BS

d [inch]	d [mm]	PN [bar]	Code	PF	SP	Weight [kg]	D [mm]	L [mm]	
3/8		15	721 961 105	2 30 165 011	10	0.007	26	23	
1/2		15	721 961 106	2 30 165 011	10	0.009	30	25	
3/4		15	721 961 107	2 30 165 011	10	0.016	37	30	
1		15	721 961 108	2 30 165 011	10	0.025	44	34	
1 1/4		15	721 961 109	2 30 165 011	10	0.038	55	41	
1 1/2		15	721 961 110	2 30 165 011	10	0.071	62	44	
2		15	721 961 111	2 30 165 011	10	0.133	78	54	
2 1/2	75	16	721 960 112	2 30 152 014	5	0.152	87	65	
3		15	721 961 113	2 30 165 011	10	0.323	112	77	
4		15	721 962 115	2 30 165 011	5	0.762	145	101	
5	140	10	721 960 116	2 30 152 014	10	1.036	164	92	

Adhesive jointed fittings

Tee 90° reducing Inch BS



d-d [inch]	d1 [mm]	d [mm]	PN [bar]	Code	PF	SP	Weight [kg]	
3/4 - 1/2			15	721 201 134	2 30 165 006	10	0.034	
1 - 1/2			15	721 201 141	2 30 165 006	10	0.056	
1 - 3/4			15	721 201 138	2 30 165 006	10	0.058	
1 1/4 - 3/4			15	721 201 151	2 30 165 006	10	0.132	
1 1/4 - 1			15	721 201 147	2 30 165 006	10	0.128	
1 1/2 - 1/2			15	721 201 009	2 30 165 006	5	0.206	
1 1/2 - 3/4			15	721 201 010	2 30 165 006	0	0.185	
1 1/2 - 1			15	721 201 164	2 30 165 006	5	0.211	
2 - 3/4			15	721 201 011	2 30 165 014	10	0.385	
2 - 1			15	721 201 178	2 30 165 014	5	0.380	
2 - 1 1/2			15	721 201 170	2 30 165 014	0	0.511	
4 - 3			15	721 201 137	2 30 165 006	0	1.990	
5 - 2 1/2	75	140	16	721 200 149	2 30 152 006	1	3.319	

z [mm]	z1 [mm]	D [mm]	L [mm]	L1 [mm]	
14	14	33	33	30	
17	17	41	39	33	
17	17	41	39	36	
22	22	50	49	42	
29	28	62	59	44	
29	28	62	59	50	
37	34	77	73	53	
37	34	77	73	56	
37	32	77	73	53	
37	32	77	73	56	
38	32	73	68	68	
72	59	138	122	122	
72	78	172	148	122	



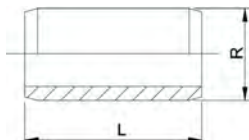
Barrel nipple PVC-U Inch BS

Model:

- With solvent cement spigots on both sides
- For the shortest possible distance between fittings
- Overall length L = 2 x socket length

d [mm]	d [inch]	PN [bar]	Code	PF	SP	Weight [kg]	L [mm]	
	3/8	16	721 901 905	2 30 166 012	0	0.002	29	
	1/2	16	721 901 906	2 30 166 012	0	0.004	33	
	3/4	16	721 901 907	2 30 166 012	0	0.008	39	
	1	16	721 901 908	2 30 166 012	0	0.015	45	
	1 1/4	16	721 901 909	2 30 166 012	0	0.027	54	
	1 1/2	16	721 901 910	2 30 166 012	0	0.050	60	
	2	16	721 901 911	2 30 166 012	0	0.098	72	

table continued next page



d [mm]	d [inch]	PN [bar]	Code	PF	SP	Weight [kg]	L [mm]	
75	2 ½	16	721 900 912	2 30 152 011	30	0.156	88	
	3	16	721 901 913	2 30 166 012	0	0.226	101	
	4	16	721 901 914	2 30 166 012	0	0.476	126	
140	5	16	721 900 916	2 30 152 011	4	0.932	152	

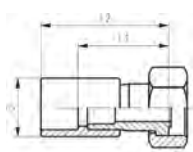
Adaptor fittings



Tap connector PVC-U Inch BS Rp

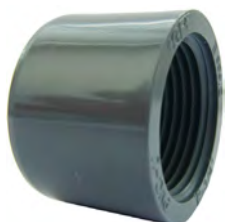
Model:

- With solvent cement socket BS Inch and brass parallel female thread Rp



d [inch]	Rp [inch]	Code	SP	Weight [kg]	s [mm]	D [mm]	I1 [mm]	I2 [mm]	
¾	½	721 551 405	5	0.040	24	23	39	55	
½	¾	721 551 406	0	0.042	31	27	43	60	

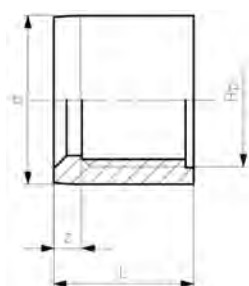
PF 2 30 166 999



Reducing bush short PVC-U Inch BS Rp

Model:

- With solvent cement spigot BS and parallel female thread Rp
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes
- Connection to plastic threads only



d [inch]	Rp [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	L [mm]	
½	¾	15	721 901 534	10	0.003	3	18	
¾	½	15	721 901 537	10	0.007	5	21	
1	¾	15	721 901 541	10	0.011	4	24	
1	½	15	721 901 542	10	0.017	8	24	

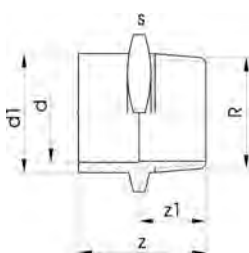
PF 2 30 166 036



Adaptor socket nipple PVC-U Inch BS R

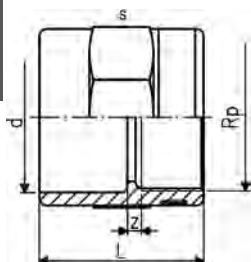
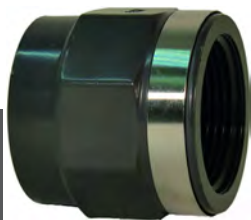
Model:

- With solvent cement spigot/reducing socket and taper male thread R
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes



d [inch]	R [inch]	d1 [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	z1 [mm]	s [mm]	
¼	¾	¾	15	721 911 555	0	0.011	36	21	27	
¾	½	½	15	721 911 556	10	0.019	43	28	32	
½	¾	¾	15	721 911 557	10	0.019	48	31	36	
¾	1	1	15	721 911 558	10	0.040	55	35	46	

PF 2 30 166 009



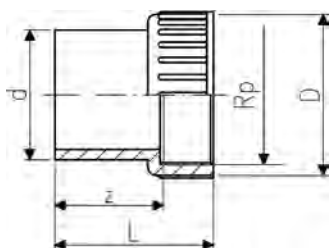
PF 2 30 166 007

Adaptor socket PVC-U Inch BS Rp

Model:

- With solvent cement socket BS Inch and parallel female thread Rp
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads

d [inch]	Rp [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	L [mm]	s [mm]	
3/8	3/8	15	721 911 005	10	0.016	4	31	27	
1/2	1/2	15	721 911 006	10	0.024	4	35	32	
3/4	3/4	15	721 911 007	10	0.030	3	40	36	
1	1	15	721 911 008	10	0.055	3	45	46	
1 1/4	1 1/4	15	721 911 009	10	0.083	3	51	55	
1 1/2	1 1/2	15	721 911 010	10	0.127	8	59	65	
2	2	15	721 911 011	5	0.215	8	69	80	



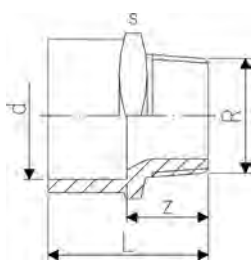
PF 2 30 166 034

Adaptor bush equal PVC-U Inch BS Rp

Model:

- With solvent cement spigot BS Inch and parallel female thread Rp
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes
- Connection to plastic threads only

d [inch]	Rp [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	D [mm]	L [mm]	
1/2	1/2	15	721 901 406	10	0.012	21	28	37	
3/4	3/4	15	721 901 407	10	0.016	23	34	41	
1	1	15	721 901 408	10	0.036	27	42	48	
1 1/4	1 1/4	15	721 901 409	10	0.065	33	52	56	
1 1/2	1 1/2	15	721 901 410	10	0.092	38	62	61	
2	2	15	721 901 411	5	0.160	47	77	74	

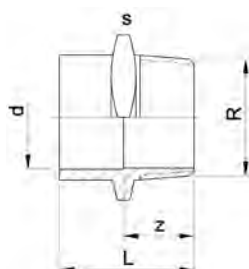


Adaptor bush equal PVC-U Inch BS R

Model:

- With solvent cement socket BS Inch and taper male thread R
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

d [inch]	R [inch]	PN [bar]	Code	PF	SP	Weight [kg]	z [mm]	L [mm]	s [mm]	
3/8	3/8	15	721 911 705	2 30 166 034	10	0.013	20	34	27	
1/2	1/2	15	721 911 706	2 30 166 034	10	0.017	24	40	32	
3/4	3/4	15	721 911 707	2 30 166 034	10	0.022	25	44	36	
1	1	15	721 911 708	2 30 166 034	10	0.037	28	50	46	
1 1/4	1 1/4	15	721 911 709	2 30 166 034	10	0.055	31	57	55	
1 1/2	1 1/2	15	721 911 710	2 30 166 034	10	0.097	32	63	65	
2	2	15	721 911 711	2 30 166 034	5	0.176	38	76	80	
2 1/2	2 1/2	10	721 910 712	2 30 153 008	5	0.227	42	86	90	



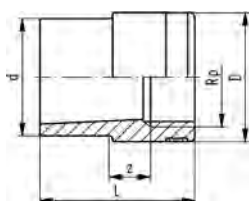
PF 2 30 166 011

Adaptor bush reducing PVC-U Inch BS R

Model:

- With solvent cement socket BS Inch and taper male thread R
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

d [inch]	R [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	L [mm]	s [mm]	
1/2	3/4	15	721 911 737	120	0.050	22	40	36	
3/4	1	15	721 911 741	70	0.034	27	48	46	
1	1 1/4	15	721 911 746	70	0.052	29	53	55	
1 1/4	1 1/2	15	721 911 752	60	0.060	29	58	65	
1 1/2	2	15	721 911 758	75	0.071	34	64	80	



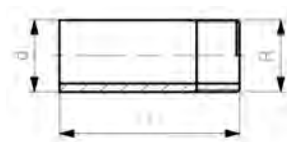
PF 2 30 166 010

Reducing bush PVC-U Inch BS

Model:

- With solvent cement socket BS Inch and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d [inch]	Rp [inch]	PN [bar]	Code	SP	Weight [kg]	D [mm]	z [mm]	L [mm]	
3/8	1/2	16	721 911 434	10	0.020	30	8	40	



PF 2 30 166 013

Adaptor nipple PVC-U Inch BS R

Model:

- With solvent cement spigot BS Inch and taper male thread R
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d [inch]	R [inch]	PN [bar]	Code	SP	Weight [kg]	L [mm]	
3/8	3/8	15	721 913 905	0	0.007	43	
1/2	1/2	15	721 913 906	0	0.013	50	
3/4	3/4	15	721 913 907	0	0.022	56	
1	1	15	721 913 908	0	0.034	63	
1 1/4	1 1/4	15	721 913 909	0	0.060	75	
1 1/2	1 1/2	15	721 913 910	0	0.082	88	
2	2	15	721 913 911	0	0.111	88	
3	3	15	721 913 913	0	0.253	128	
4	4	15	721 913 915	0	0.486	153	



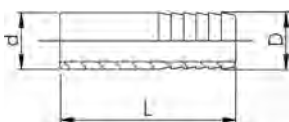
PF 2 30 166 003

Tee 90° PVC-U Inch BS Rp

Model:

- With solvent cement socket BS Inch and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

PN [bar]	d [inch]	Rp [inch]	Code	SP	Weight [kg]	z1 [mm]	z2 [mm]	D [mm]	D1 [mm]	L [mm]	
16	3/8	3/8	721 201 205	10	0.028	10	14	25	25	26	
16	1/2	1/2	721 201 206	10	0.028	10	13	30	26	29	
16	3/4	3/4	721 201 207	10	0.039	13	15	35	32	33	
16	1	1	721 201 208	10	0.111	17	19	45	40	39	



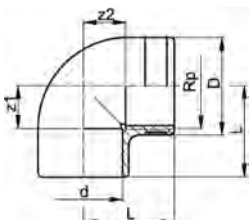
PF 2 30 165 013

Hose connector PVC-U Inch BS

Model:

- With solvent cement spigot and parallel hose connection

d [inch]	PN [bar]	Code	SP	Weight [kg]	D [mm]	L [mm]	
1/4	15	721 961 404	10	0.005	12	51	



PF 2 30 166 001

Elbow 90° PVC-U Inch BS Rp

Model:

- With solvent cement socket BS Inch and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

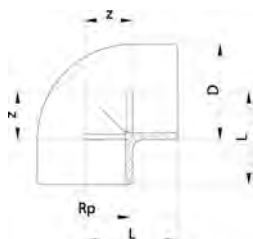
d [inch]	Rp [inch]	PN [bar]	Code	SP	Weight [kg]	z1 [mm]	z2 [mm]	D [mm]	L [mm]	
1/2	1/2	15	721 101 206	10	0.022	10	15	30	27	
3/4	3/4	15	721 101 207	10	0.033	13	19	35	33	
1	1	15	721 101 208	10	0.051	16	24	45	39	

Threaded fittings

Elbow 90° PVC-U Rp

Model:

- With parallel female thread Rp
- Connection to plastic threads only
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U



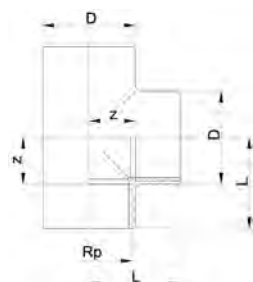
PF 2 30 166 002

Rp [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	D [mm]	L [mm]	
3/8	10	721 101 605	10	0.013	9	23	23	
1/2	10	721 101 606	10	0.017	12	27	27	
3/4	10	721 101 607	10	0.029	15	33	33	
1	10	721 101 608	10	0.042	19	39	39	
1 1/4	10	721 101 609	10	0.070	27	48	49	
1 1/2	10	721 101 610	5	0.178	35	61	59	
2	10	721 101 611	5	0.322	44	75	72	

Tee 90° equal PVC-U Rp

Model:

- With parallel female thread Rp
- Connection to plastic threads only
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U



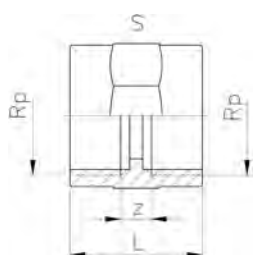
PF 2 30 166 004

Rp [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	D [mm]	L [mm]	
3/8	10	721 201 605	10	0.016	9	23	23	
1/2	10	721 201 606	10	0.027	12	28	27	
3/4	10	721 201 607	10	0.039	15	33	33	
1	10	721 201 608	5	0.072	19	41	39	
1 1/4	10	721 201 609	10	0.146	27	50	49	
1 1/2	10	721 201 610	10	0.267	36	62	60	
2	10	721 201 611	10	0.485	44	77	72	

Socket PVC-U Rp

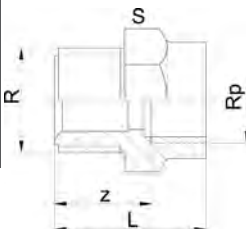
Model:

- With parallel female thread Rp
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes



PF 2 30 166 006

Rp [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	L [mm]	s [mm]	
1/4	10	721 910 604	10	0.010	7	27	22	
3/8	10	721 910 605	10	0.015	7	29	27	
1/2	10	721 910 606	10	0.024	9	35	32	
3/4	10	721 910 607	10	0.029	9	39	36	
1	10	721 910 608	10	0.053	11	45	46	
1 1/4	10	721 910 609	10	0.076	11	49	55	
1 1/2	10	721 910 610	10	0.106	11	49	65	
2	10	721 910 611	5	0.180	11	57	80	



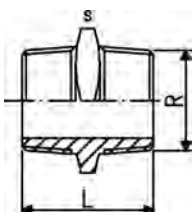
PF 2 30 166 009

Reducing bush PVC-U R Rp

Model:

- With taper male thread R and parallel female thread Rp
- Connection to plastic threads only
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

R [inch]	Rp [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	L [mm]	s [mm]	
½	¾	10	721 910 834	10	0.014	25	36	27	
¾	½	10	721 910 837	10	0.021	25	39	32	
1	½	10	721 910 842	10	0.029	31	45	32	
1	¾	10	721 910 841	10	0.031	29	45	36	
1 ¼	1	10	721 910 846	10	0.050	32	50	46	
1 ½	1 ¼	10	721 910 852	10	0.065	35	55	55	
2	1 ½	10	721 910 858	5	0.127	45	65	65	



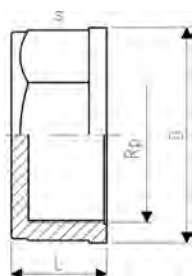
PF 2 30 166 012

Threaded nipple R PVC-U

Model:

- With taper male thread R
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

R [inch]	PN [bar]	Type	Code	SP	Weight [kg]	L [mm]	s [mm]	
¾	10	A	721 911 905	10	0.007	37	19	
½	10	A	721 911 906	10	0.012	45	22	
¾	10	A	721 911 907	10	0.019	49	27	
1	10	A	721 911 908	10	0.034	57	36	
1 ¼	10	A	721 911 909	10	0.052	62	46	
1 ½	10	A	721 911 910	10	0.070	67	50	
2	10	A	721 911 911	10	0.126	76	65	



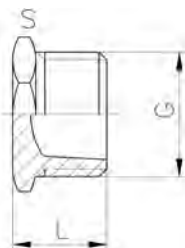
PF 2 30 166 016

Cap PVC-U Rp

Model:

- With parallel female thread Rp
- Connection to plastic threads only
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

Rp [inch]	PN [bar]	Code	SP	Weight [kg]	D [mm]	L [mm]	s [mm]	
⅝	10	721 960 603	10	0.013	20	14	17	
¼	10	721 960 604	10	0.024	25	16	22	
⅜	10	721 960 605	10	0.012	31	19	27	
½	10	721 960 606	10	0.018	37	21	32	
¾	10	721 960 607	10	0.024	42	24	36	
1	10	721 960 608	10	0.040	50	26	46	
1 ¼	10	721 960 609	10	0.060	60	29	55	
1 ½	10	721 960 610	10	0.072	65	31	60	
2	10	721 960 611	5	0.127	81	36	75	



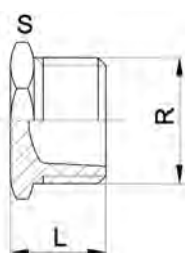
PF 2 30 166 014

Plug PVC-U G

Model:

- With parallel male thread G
- Connection to plastic threads only
- Flat gasket necessary for sealing
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

G [inch]	PN [bar]	Code	SP	Weight [kg]	L [mm]	s [mm]	
3/8	10	721 960 905	10	0.005	21	22	
1/2	10	721 960 906	10	0.010	25	27	
3/4	10	721 960 907	10	0.018	29	36	
1	10	721 960 908	10	0.029	32	41	
1 1/4	10	721 960 909	10	0.048	36	50	
1 1/2	10	721 960 910	10	0.070	37	60	
2	10	721 960 911	5	0.120	42	75	



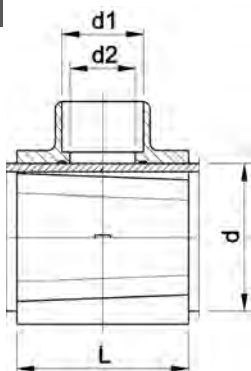
PF 2 30 166 015

Plug PVC-U R

Model:

- With taper male thread R
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

R [inch]	PN [bar]	Code	SP	Weight [kg]	L [mm]	s [mm]	
3/8	10	721 961 905	10	0.006	21	22	
1/2	10	721 961 906	10	0.011	25	27	
3/4	10	721 961 907	10	0.020	29	36	
1	10	721 961 908	10	0.030	32	41	
1 1/4	10	721 961 909	10	0.048	36	50	
1 1/2	10	721 961 910	10	0.071	37	60	
2	10	721 961 911	5	0.119	42	75	



PF 2 52 317 009

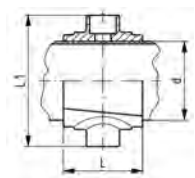
Saddles

Saddle single branch (rubber gasket joint to main)

Model:

- Outlet with solvent cement socket, BS Inch
- Top saddle with NBR rubber gasket

PN [bar]	d1-d [mm]	Code Code	Weight [kg]	L [mm]	
10	1 1/4 - 3"	161 117 055	0.343	106	
10	1 1/2 - 3"	161 117 056	0.363	106	
10	2 - 3"	161 117 057	0.767	106	
10	1 1/4 - 4"	161 117 065		106	
10	1 1/2 - 4"	161 117 066	0.405	106	
10	2 - 4"	161 117 067	0.930	106	
10	1 1/4 - 6"	161 117 095	0.550	120	
10	1 1/2 - 6"	161 117 096		120	
10	2 - 6"	161 117 097	1.364	120	



PF 2 52 317 001

Saddle double branch (rubber gasket joint to main)

Model:

- Top saddle with NBR rubber gasket
- Outlet with solvent cement socket, BS Inch
- Allowance should be made for a possible weakening effect on the main of the two diametrically opposed tapplings. Particular attention should therefore be given to the class of pipe used in relation to the expected maximum working pressures.

d-d [inch]	PN [bar]	Code Code	Weight [kg]	L [mm]	L1 [mm]	
1 1/4 - 3	10	161 137 055	0.800	106	88	
1 1/2 - 3	10	161 137 056	0.840	106	88	
2 - 3	10	161 137 057	0.851	106	88	
1 1/4 - 4	10	161 137 065	0.910	106	101	
1 1/2 - 4	10	161 137 066	0.930	106	101	
2 - 4	10	161 137 067	0.954	106	101	
1 1/4 - 6	10	161 137 095	1.250	120	121	
1 1/2 - 6	10	161 137 096		120	121	
2 - 6	10	161 137 097	1.332	120	121	

Type 546 Vented Ball Valve

Standard Features

- **Size**
3/8"-4"
- **Material**
PVC, CPVC
- **Available**
Socket
Threaded
Flanged
Spigot (PVDF and PP only)
- **Seat**
PTFE
- **Seals**
EPDM or FPM
- **Mounting**
Stainless steel threaded inserts
for easy and secure mounting

Optional Features

- **Actuation**
Electric actuation
Pneumatic actuation
- **Limit Switches**
Available for both manual and
actuated versions
- **Handles**
Lockable handle
Handle extension

Standards

- **NSF61**
Pending 2½", 3", 4"
- **ISO9393**



General

Based on Georg Fischer's premium ball valve series, the vented ball valve is designed for applications such as chlorinated water, water where bleach (sodium hypochlorite solutions) is present, and other applications where liquids requiring out-gassing exist.* The special vent on one side of the ball allows for pressure to be released back into the closed system. This helps prevent potentially dangerous pressure from building up inside the valve. Since the valve is based on the type 546 series, virtually all of the same accessories are available.

*Chemical applications vary from system to system. Issues such as concentration, temperature, and pressure all play a role. It is the responsibility of the individual user to verify compatibility and recommend every application be verified and tested by internal experts or a third party.

PVC-U ASTM/ANSI

Hand-operated valves

Ball valve type 546 PVC-U

With mounting inserts

With solvent cement sockets Inch ASTM

Inclusive 2 threaded valve ends NPT

Model:

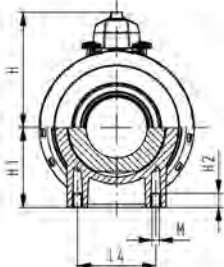
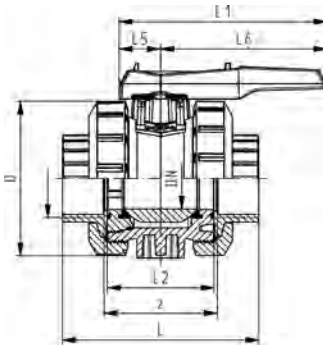
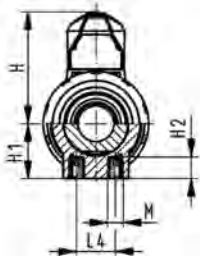
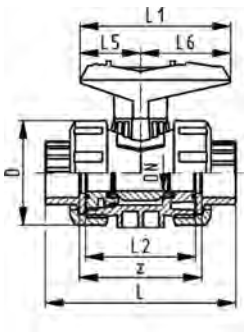
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Threaded valve ends are only enclosed for DN10/15-50
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



DN10/15 - 50



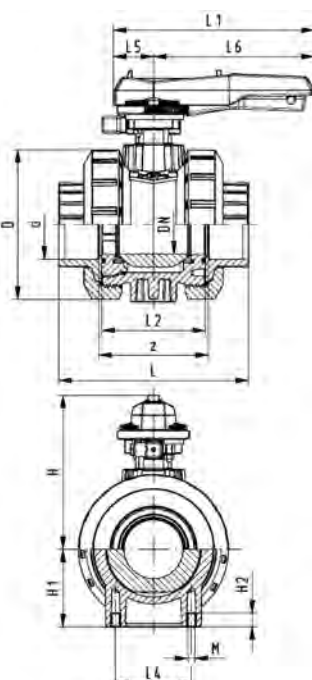
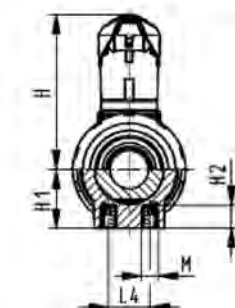
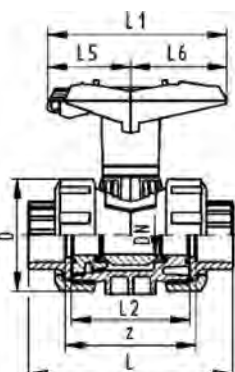
Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
3/8	10	16	71	161 546 341	2 31 546 803	1	0.157
1/2	15	16	185	161 546 342	2 31 546 803	1	0.233
3/4	20	16	350	161 546 343	2 31 546 803	1	0.245
1	25	16	700	161 546 344	2 31 546 803	1	0.483
1 1/4	32	16	1000	161 546 345	2 31 546 803	1	0.796
1 1/2	40	16	1600	161 546 346	2 31 546 803	1	1.089
2	50	16	3100	161 546 347	2 31 546 803	1	1.922
2 1/2	65	16	5000	161 546 348	2 31 546 603	1	4.363
3	80	16	7000	161 546 349	2 31 546 603	1	5.376
4	100	16	11000	161 546 350	2 31 546 603	1	9.633

Size [inch]	FPM Code	PF	SP	Weight [kg]
3/8	161 546 351	2 31 546 803	1	0.184
1/2	161 546 352	2 31 546 803	1	0.200
3/4	161 546 353	2 31 546 803	1	0.342
1	161 546 354	2 31 546 803	1	0.486
1 1/4	161 546 355	2 31 546 803	1	0.740
1 1/2	161 546 356	2 31 546 803	1	0.850
2	161 546 357	2 31 546 803	1	1.934
2 1/2	161 546 358	2 31 546 603	1	4.900
3	161 546 359	2 31 546 603	1	7.400
4	161 546 360	2 31 546 603	1	9.707

Size [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]
3/8	50	57	27	12	105	77	56	25	32	45	6	67
1/2	50	57	27	12	105	77	56	25	32	45	6	61
3/4	58	67	30	12	121	97	65	25	39	58	6	70
1	68	73	36	12	133	97	71	25	39	58	6	76
1 1/4	84	90	44	15	154	128	85	45	54	74	8	90
1 1/2	97	97	51	15	164	128	89	45	54	74	8	94
2	124	116	64	15	183	152	101	45	66	87	8	107
2 1/2	166	149	85	15	233	270	136	70	64	206	8	144
3	200	161	105	15	254	270	141	70	64	206	8	151
4	238	178	123	22	301	320	164	120	64	256	12	174



DN10/15 - 50



Ball valve type 546 PVC-U With lockable handle With solvent cement sockets Inch ASTM Inclusive 2 threaded valve ends NPT

Model:

- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Threaded valve ends are only enclosed for DN10/15-50
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Lockable hand lever with ratchet settings

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
3/8	10	16	71	161 546 361	2 31 546 803	1	0.195
1/2	15	16	185	161 546 362	2 31 546 803	1	0.209
3/4	20	16	350	161 546 363	2 31 546 803	1	0.266
1	25	16	700	161 546 364	2 31 546 803	1	0.450
1 1/4	32	16	1000	161 546 365	2 31 546 803	1	0.770
1 1/2	40	16	1600	161 546 366	2 31 546 803	1	0.869
2	50	16	3100	161 546 367	2 31 546 803	1	1.820
2 1/2	65	16	5000	161 546 368	2 31 546 603	1	4.420
3	80	16	7000	161 546 369	2 31 546 603	0	7.700
4	100	16	11000	161 546 370	2 31 546 603	0	11.900

Size [inch]	FPM Code	PF	SP	Weight [kg]
3/8	161 546 371	2 31 546 803	1	0.195
1/2	161 546 372	2 31 546 803	1	0.205
3/4	161 546 373	2 31 546 803	1	0.268
1	161 546 374	2 31 546 803	1	0.450
1 1/4	161 546 375	2 31 546 803	1	0.770
1 1/2	161 546 376	2 31 546 803	1	1.030
2	161 546 377	2 31 546 803	1	1.820
2 1/2	161 546 378	2 31 546 603	0	5.300
3	161 546 379	2 31 546 603	0	7.700
4	161 546 380	2 31 546 603	0	11.900

Size [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]
3/8	50	79	27	12	105	87	56	25	42	45	M6	67
1/2	50	79	27	12	105	87	56	25	42	45	M6	61
3/4	58	88	30	12	121	108	65	25	50	58	M6	70
1	68	94	36	12	133	108	71	25	50	58	M6	76
1 1/4	84	113	44	15	154	140	85	45	66	74	M8	90
1 1/2	97	119	51	15	164	140	89	45	66	74	M8	94

table continued next page

Size [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	
2	124	141	64	15	183	165	101	45	78	87	M8	107	
2 ½	166	224	85	15	233	270	136	70	64	206	M8	144	
3	200	235	105	15	254	270	141	70	64	206	M8	151	
4	238	245	123	22	301	320	164	120	64	256	M12	174	



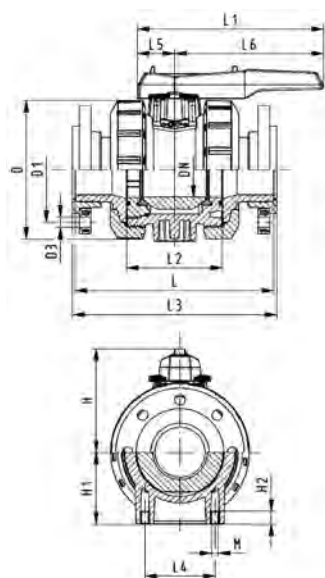
Ball valve type 546 PVC-U With mounting inserts With backing flanges PP-st Inch ANSI

Model:

- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Overall length according to EN 558
- Connecting dimension ANSI/ASME B 16.5 / ASTM D 4024

Option:

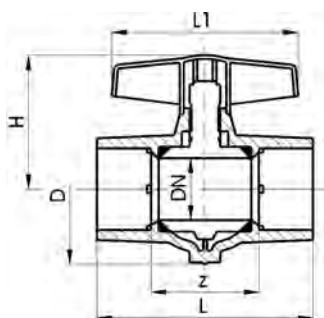
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



Size [inch]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
2 ½	65	16	5000	161 546 968	0	9.200	161 546 978	0	9.200	
3	80	16	7000	161 546 969	0	12.700	161 546 979	0	12.700	
4	100	16	11000	161 546 970	0	19.000	161 546 980	0	19.000	

Size [inch]	D [mm]	D1 [mm]	D3 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	
2 ½	166	140	19	149	85	284	270	136	290	70	64	206	8	
3	200	152	19	161	105	300	270	141	310	70	64	206	8	
4	238	191	19	178	123	340	320	164	350	120	64	256	12	

PF 2 31 546 603



Ball valve coloro type 353 PVC-U With solvent cement sockets ASTM/BS

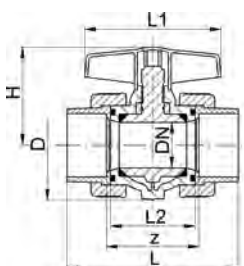
Model:

- Compact
- Monobloc structure
- Lever orange
- Ball seal PTFE
- Only bulk pack GP are delivered
- Actuator unit not connectable

Size [inch]	DN [mm]	PN [bar]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
1/2	15	16	161 353 342	12	0.069	161 353 352	12	0.074	
3/4	20	16	161 353 343	12	0.104	161 353 353	12	0.097	
1	25	16	161 353 344	12	0.148	161 353 354	12	0.147	
1 1/4	32	16	161 353 345	6	0.222	161 353 355	6	0.222	
1 1/2	40	16	161 353 346	6	0.460	161 353 356	6	0.310	
2	50	16	161 353 347	6	0.647	161 353 357	6	0.647	

Size [inch]	D [mm]	H [mm]	L [mm]	L1 [mm]	z [mm]	
1/2	49	51	77	78	33	
3/4	54	58	89	92	38	
1	64	63	105	92	48	
1 1/4	78	77	119	116	56	
1 1/2	90	83	136	116	66	
2	112	102	160	140	83	

PF 2 31 149 002



Ball valve coloro type 355 PVC-U With solvent cement sockets BS/ASTM

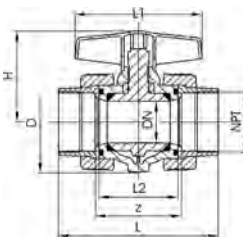
Model:

- Monobloc structure
- Lever orange
- Ball seal PTFE
- Only bulk pack GP are delivered
- Actuator unit not connectable

Size [inch]	DN [mm]	PN [bar]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
1/2	15	16	161 355 342	12	0.130	161 355 352	12	0.130	
3/4	20	16	161 355 343	12	0.182	161 355 353	12	0.182	
1	25	16	161 355 344	12	0.258	161 355 354	12	0.258	
1 1/4	32	16	161 355 345	6	0.452	161 355 355	6	0.452	
1 1/2	40	16	161 355 346	6	0.586	161 355 356	6	0.586	
2	50	16	161 355 347	6	1.079	161 355 357	6	1.079	

Size [inch]	D [mm]	H [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]	
1/2	49	51	92	78	54	60	
3/4	54	58	104	92	60	66	
1	64	63	113	92	63	69	
1 1/4	78	77	132	116	74	80	
1 1/2	90	83	147	116	79	85	
2	112	102	175	140	91	97	

PF 2 31 149 022



UPVC Valves

Ball valve coloro type 355 PVC-U With threaded sockets NPT

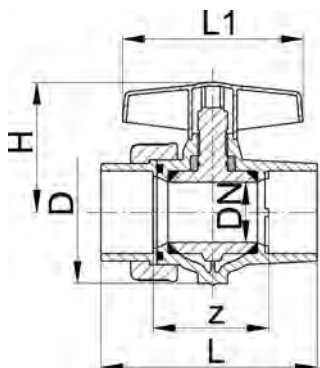
Model:

- Monobloc structure
- Lever orange
- Ball seal PTFE
- Only bulk pack GP are delivered
- Actuator unit not connectable

NPT [inch]	DN [mm]	PN [bar]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
½	15	10	161 355 362	12	0.129	161 355 372	12	0.130	
¾	20	10	161 355 363	12	0.182	161 355 373	12	0.201	
1	25	10	161 355 364	12	0.260	161 355 374	12	0.260	
1 ¼	32	10	161 355 365	6	0.452	161 355 375	6	0.452	
1 ½	40	10	161 355 366	6	0.617	161 355 376	6	0.620	
2	50	10	161 355 367	6	1.170	161 355 377	6	1.170	

D [mm]	H [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]	
49	51	95	78	54	58	
54	58	107	92	60	69	
64	63	117	92	63	70	
78	77	137	116	74	87	
90	83	145	116	79	102	
112	102	170	140	91	125	

PF 2 31 149 025



Ball valve coloro type 354 PVC-U With solvent cement sockets ASTM

Model:

- Monobloc structure
- Lever blue
- Ball seal HD-PE / lubricant compound
- Only bulk pack GP are delivered
- Actuator unit not connectable

Size [inch]	DN [mm]	PN [bar]	EPDM Code	SP	Weight [kg]	D [mm]	H [mm]	L [mm]	L1 [mm]	z [mm]	
½	15	16	161 354 302	12	0.099	49	51	87	78	46	
¾	20	16	161 354 303	12	0.142	54	58	103	92	52	
1	25	16	161 354 304	12	0.198	64	63	111	92	58	
1 ¼	32	16	161 354 305	6	0.337	78	77	128	116	68	
1 ½	40	16	161 354 306	6	0.479	90	83	141	116	76	
2	50	16	161 354 307	6	0.863	112	102	165	140	90	

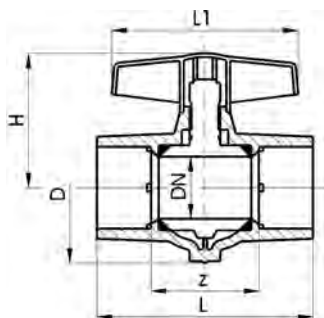
PF 2 31 149 012



Ball valve coloro type 353 PVC-U With solvent cement sockets ASTM/BS

Model:

- Compact
- Monobloc structure
- Lever blue
- Ball seal HD-PE / lubricant compound
- Only bulk pack GP are delivered
- Actuator unit not connectable



Size [inch]	DN [mm]	PN [bar]	EPDM Code	SP	Weight [kg]	D [mm]	H [mm]	L [mm]	L1 [mm]	z [mm]	
1/2	15	16	161 353 302	12	0.069	49	51	78	78	33	
3/4	20	16	161 353 303	12	0.097	54	58	89	92	38	
1	25	16	161 353 304	12	0.144	64	63	105	92	48	
1 1/4	32	16	161 353 305	6	0.222	78	77	120	116	56	
1 1/2	40	16	161 353 306	6	0.370	90	83	137	116	66	
2	50	16	161 353 307	6	0.707	112	102	162	140	83	

PF 2 31 149 002



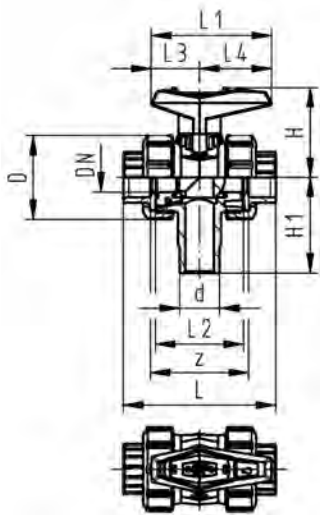
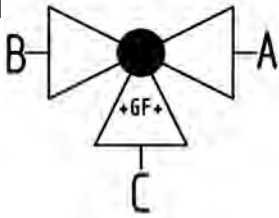
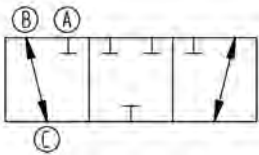
3-Way ball valve type 543 PVC-U Vertical/L-port With solvent cement sockets ASTM

Model:

- Vertical inlet solvent cement spigot metric
- Easy installation and removal using union on third outlet
- Ball seals PTFE
- Electric actuator available separately
- Angle of operation 360° without turn limiter
- Delivery status B-C opened, see flow scheme

Mode of action:

- For interconnection of two inputs



Individual configuration available on special request

Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
3/8	10	10	49	161 543 661	1	0.162	161 543 671	1	0.162
1/2	15	10	77	161 543 662	1	0.166	161 543 672	1	0.166
3/4	20	10	146	161 543 663	1	0.255	161 543 673	1	0.255
1	25	10	260	161 543 664	1	0.372	161 543 674	1	0.372
1 1/4	32	10	437	161 543 665	1	0.622	161 543 675	1	0.622
1 1/2	40	10	667	161 543 666	1	1.061	161 543 676	1	0.886
2	50	10	1293	161 543 667	1	1.617	161 543 677	1	1.617

Size [inch]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	z [mm]
3/8	50	57	62	106	77	56	32	45	67
1/2	50	57	62	105	77	56	32	45	61
3/4	58	67	72	121	97	66	39	58	70
1	68	73	77	133	97	71	39	58	76
1 1/4	84	90	87	152	128	85	54	74	90
1 1/2	97	97	97	165	128	89	54	74	94
2	124	116	112	183	152	101	66	87	107

PF 2 31 001 903



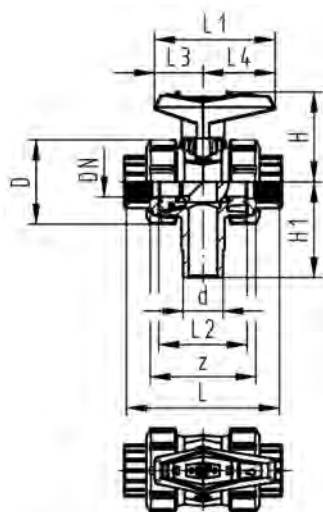
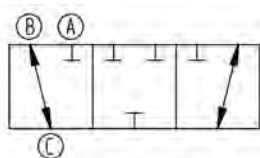
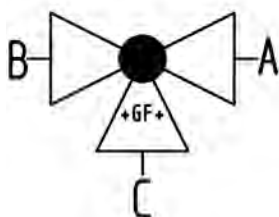
3-Way ball valve type 543 PVC-U Vertical/L-port With threaded sockets NPT

Model:

- Vertical inlet solvent cement spigot metric
- Easy installation and removal using union on third outlet
- Ball seals PTFE
- Electric actuator available separately
- Angle of operation 360° without turn limiter
- Delivery status B-C opened, see flow scheme

Mode of action:

- For interconnection of two inputs



NPT [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
3/8	10	10	49	161 543 681	1	0.162	161 543 691	1	0.162
1/2	15	10	77	161 543 682	1	0.166	161 543 692	1	0.166
3/4	20	10	146	161 543 683	1	0.255	161 543 693	1	0.255
1	25	10	260	161 543 684	1	0.372	161 543 694	1	0.372
1 1/4	32	10	437	161 543 685	1	0.622	161 543 695	1	0.622
1 1/2	40	10	667	161 543 686	1	0.886	161 543 696	1	0.886
2	50	10	1293	161 543 687	1	1.617	161 543 697	1	1.617

NPT [inch]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	z [mm]
3/8	50	57	62	98	77	56	32	45	70
1/2	50	57	62	98	77	56	32	45	64
3/4	58	67	72	112	97	66	39	58	76
1	68	73	77	127	97	71	39	58	83
1 1/4	84	90	87	146	128	85	54	74	99
1 1/2	97	97	97	157	128	89	54	74	111
2	124	116	112	183	152	101	66	87	135

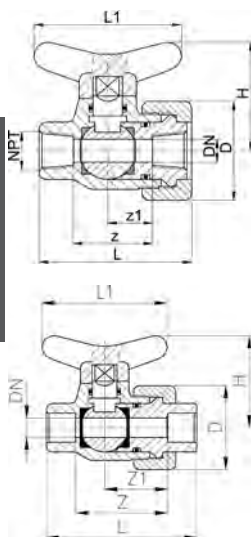
PF 2 31 001 903



Laboratory ball cock type 324 PVC-U With threaded sockets NPT

Model:

- Disconnection one end only
- Ball seals PTFE
- Angle of operation 90°



PF 2 31 156 029

NPT [inch]	DN [mm]	PN [bar]	EPDM Code	SP	Weight [kg]	D [mm]	H [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	
¼	8	10	161 324 454	5	0.042	34	38	52	45	26	15	



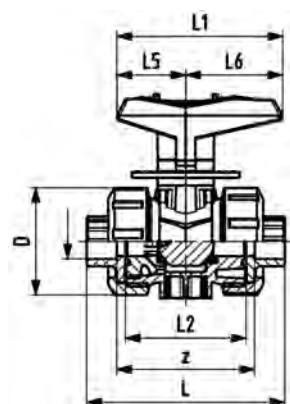
Metering ball valve type 523 PVC-U With mounting inserts With solvent cement sockets Inch ASTM Inclusive 2 threaded valve ends NPT Larger sizes available to 2" on request

Model:

- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seals PTFE
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts **not compatible** to Type 323

Option:

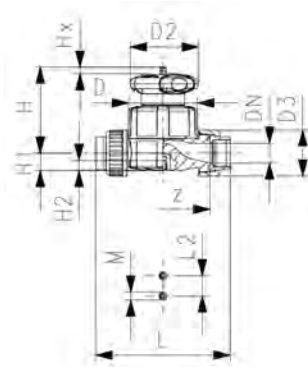
- Other materials on demand



PF 2 31 A13 803

Size [inch]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
¾	10	10	11	161 523 521	1	0.170	161 523 531	1	0.170	
½	15	10	20	161 523 522	1	0.174	161 523 532	1	0.170	

Size [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	
¾	50	68	27	12	105	77	56	25	32	45	6	67	
½	50	68	27	12	105	77	56	25	32	45	6	61	



Diaphragm valve type 514 PVC-U With solvent cement sockets ASTM

Model:

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

Option:

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

Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	
½	15	10	125	161 514 612	1	0.299	
¾	20	10	271	161 514 613	1	0.430	
1	25	10	481	161 514 614	1	0.684	
1 ¼	32	10	759	161 514 615	1	0.952	
1 ½	40	10	1263	161 514 616	1	1.642	
2	50	10	1728	161 514 617	1	2.740	

Size [inch]	FPM Code	PTFE/EPDM Code	SP	Weight [kg]	
½	161 514 662	161 514 632	1	0.299	
¾	161 514 663	161 514 633	1	0.428	
1	161 514 664	161 514 634	1	0.695	
1 ¼	161 514 665	161 514 635	1	1.447	
1 ½	161 514 666	161 514 636	1	1.671	
2	161 514 667	161 514 637	1	2.548	

Size [inch]	D [mm]	D2 [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L2 [mm]	M	z [mm]	Lift = Hx [mm]	
½	65	65	43	73	14	12	141	25	M6	96	7	
¾	80	65	51	81	18	12	165	25	M6	114	10	
1	88	87	58	107	22	12	179	25	M6	122	13	
1 ¼	101	87	72	115	26	15	204	45	M8	140	15	
1 ½	117	135	83	148	32	15	230	45	M8	160	19	
2	144	135	100	166	39	15	268	45	M8	190	25	

PF 2 31 780 025



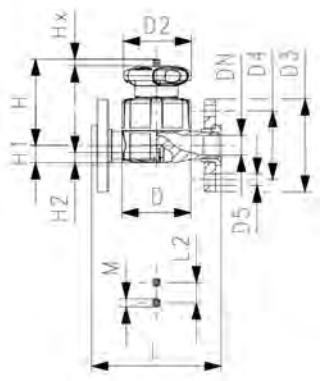
Diaphragm valve type 517 PVC-U With backing flanges PVC-U Inch ANSI

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches



Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	
½	15	10	125	161 517 612	1	0.489	
¾	20	10	271	161 517 613	1	0.652	
1	25	10	481	161 517 614	1	1.336	
1 ¼	32	10	759	161 517 615	1	1.721	
1 ½	40	10	1263	161 517 616	1	2.862	
2	50	10	1728	161 517 617	1	3.777	

Size [inch]	FPM Code	PTFE/EPDM Code	SP	Weight [kg]	
½	161 517 662	161 517 632	1	0.499	
¾	161 517 663	161 517 633	1	0.664	
1	161 517 664	161 517 634	1	1.356	
1 ¼	161 517 665	161 517 635	1	1.741	
1 ½	161 517 666	161 517 636	1	2.892	
2	161 517 667	161 517 637	1	3.805	

Size [inch]	D [mm]	D2 [mm]	D3 [mm]	D4 [mm]	D5 [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L2 [mm]	M	Lift = Hx [mm]	
½	65	65	95	60	16	73	14	12	130	25	M6	7	
¾	80	65	105	70	16	81	18	12	150	25	M6	10	
1	88	87	115	79	16	107	22	12	160	25	M6	13	
1 ¼	101	87	140	89	16	115	26	15	180	45	M8	15	
1 ½	117	135	150	98	16	148	32	15	200	45	M8	19	
2	144	135	165	121	19	166	39	15	230	45	M8	25	

PF 2 31 780 035



Diaphragm valve type 317 PVC-U With flanges PVC-U Inch ANSI

Model:

- Flat sealing faces
- Overall length according to EN 558
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Handwheel lockable DN15-65 (basic version not lockable)

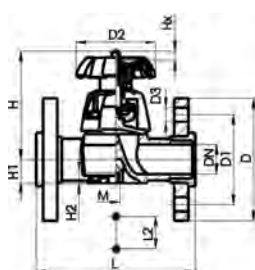


Size [inch]	DN [mm]	PN [bar]	NBR Code	PF	EPDM Code	PF	
2 ½	65	10	161 317 608	2 31 158 060	161 317 623	2 31 158 060	
3	80	10	161 317 009	2 31 158 013	161 317 024	2 31 158 014	
4	100	10	161 317 310	2 31 158 025	161 317 325	2 31 158 026	
6	150	7	161 317 012	2 31 158 013	161 317 027	2 31 158 014	

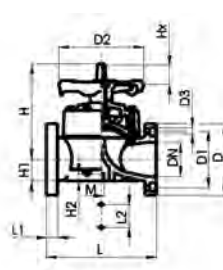
table continued next page

Size [inch]	FPM Code	PF	PTFE with EPDM supp. diaphragm Code	PF	Weight [kg]
2 ½	161 317 668	2 31 158 060	161 317 638	2 31 158 060	4.300
3	161 317 069	2 31 158 036	161 317 039	2 31 158 015	10.251
4	161 317 370	2 31 158 063	161 317 340	2 31 158 027	14.184
6	161 317 072	2 31 158 036	161 317 042	2 31 158 015	35.000

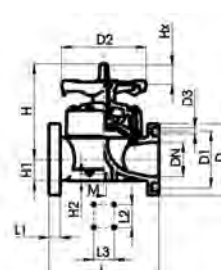
Size [inch]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	M	Lift = Hx [mm]	AL
2 ½	185	140	152	19	201	46	15	290		70		M8	30	4
3	200	160	270	18	265	57	23	310	35	120		M12	40	8
4	225	191	270	19	304	69	23	350	35	120		M12	50	8
6	285	240	400	23	437	108	23	480	26	100	200	M12	70	8



DN 15-65



DN 80-100

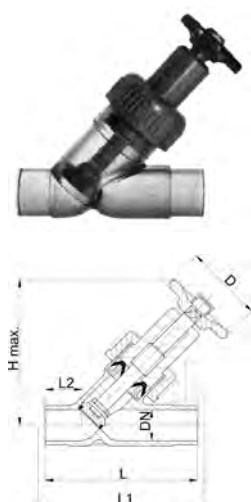


DN 150

Angle seat valve type 301 PVC-U Transparent body with solvent cement spigots ASTM

Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	PE Code	PF	SP	Weight [kg]
½	15	10	95	192 301 300	2 31 160 003	1	0.180
¾	20	10	180	192 301 350	2 31 160 003	1	0.250
1	25	10	327	192 301 400	2 31 160 003	1	0.385
1 ¼	32	10	484	192 301 450	2 31 160 003	1	0.580
1 ½	40	10	725	192 301 500	2 31 160 003	1	0.970
2	50	10	1130	192 301 550	2 31 160 003	1	1.475
3	80	10	2500	192 301 650	2 31 160 003	1	3.324

Size [inch]	PTFE Code	PF	SP	Weight [kg]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	H max. [mm]
½	192 301 349	2 31 160 004	1	0.180	63	143	149	37	126
¾	192 301 399	2 31 160 004	1	0.250	63	160	166	45	140
1	192 301 449	2 31 160 004	1	0.385	80	174	180	47	166
1 ¼	192 301 499	2 31 160 004	1	0.605	80	188	194	53	191
1 ½	192 301 549	2 31 160 004	1	0.970	100	205	211	54	233
2	192 301 599	2 31 160 004	1	1.504	100	225	231	63	264
3	192 301 699	2 31 160 004	1	3.417	200	311	321	90	390

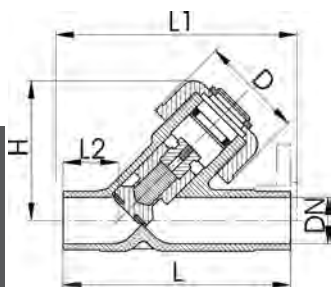




Angle seat check valve type 304 PVC-U Transparent body with solvent cement spigots ASTM

Model:

- For horizontal or vertical installation
- Leakproof even at minimum pressure
- Specific gravity of piston approx. 2 kg/dm³



Size [inch]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	PF	SP	Weight [kg]	
½	15	10	95	192 304 006	2 31 161 016	1	0.117	
¾	20	10	180	192 304 007	2 31 161 016	1	0.179	
1	25	10	327	192 304 008	2 31 161 016	1	0.297	
1 ¼	32	10	484	192 304 009	2 31 161 016	1	0.580	
1 ½	40	10	725	192 304 010	2 31 161 016	1	0.778	
2	50	10	1130	192 304 011	2 31 161 016	1	1.297	
3	80	10	2500	192 304 013	2 31 161 016	1	3.741	

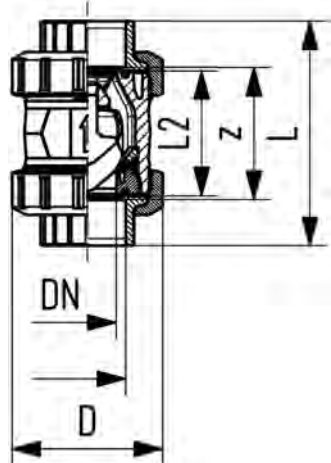
Size [inch]	FPM Code	PF	SP	Weight [kg]	D [mm]	H [mm]	L [mm]	L1 [mm]	L2 [mm]	
½	192 304 031	2 31 161 017	1	0.180	43	65	143	149	37	
¾	192 304 032	2 31 161 017	1	0.250	47	75	160	166	45	
1	192 304 033	2 31 161 017	1	0.385	56	90	174	180	47	
1 ¼	192 304 034	2 31 161 017	1	0.460	64	102	188	194	6	
1 ½	192 304 035	2 31 161 017	1	0.781	82	123	205	211	54	
2	192 304 036	2 31 161 017	1	1.475	95	144	225	231	63	
3	192 304 038	2 31 161 017	1	3.449	104	204	311	321	90	



Check valve type 561 PVC-U With solvent cement sockets Inch ASTM Inclusive 2 threaded valve ends NPT

Model:

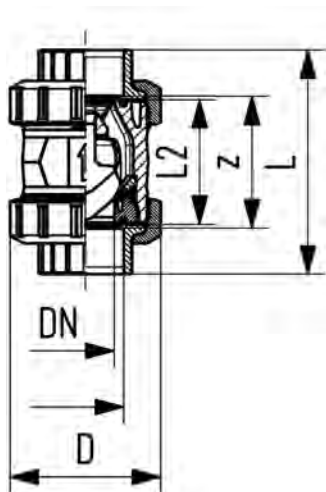
- Sealing at a minimum water column of 2m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



NPT [inch]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
¾	10	16	190	161 561 101	1	0.130	161 561 111	1	0.130	
½	15	16	180	161 561 102	1	0.161	161 561 112	1	0.130	
¾	20	16	380	161 561 103	1	0.184	161 561 113	1	0.280	
1	25	16	460	161 561 104	1	0.372	161 561 114	1	0.300	
1 ¼	32	16	850	161 561 105	1	0.510	161 561 115	1	0.510	
1 ½	40	16	1080	161 561 106	1	0.720	161 561 116	1	0.760	
2	50	16	1670	161 561 107	1	1.327	161 561 117	1	1.330	
2 ½	65	16	2950	161 561 108	1	3.230	161 561 118	1	3.250	
3	80	16	3600	161 561 109	1	5.080	161 561 119	1	5.100	
4	100	16	4150	161 561 110	1	8.150	161 561 120	1	8.190	

NPT [inch]	D [mm]	L [mm]	L2 [mm]	z [mm]	
¾	50	105	56	67	
½	50	105	56	61	
¾	58	121	65	70	
1	68	133	71	76	
1 ¼	84	154	85	90	
1 ½	97	164	89	94	

table continued next page



PF 2 31 986 214

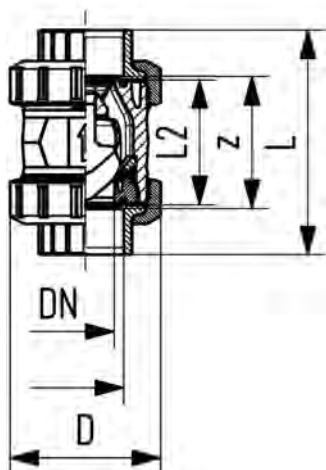
NPT [inch]	D [mm]	L [mm]	L2 [mm]	z [mm]
2	124	183	101	107
2 ½	166	233	136	144
3	200	254	141	151
4	238	301	164	174



Check valve type 562 PVC-U With solvent cement sockets Inch ASTM Inclusive 2 threaded valve ends NPT

Model:

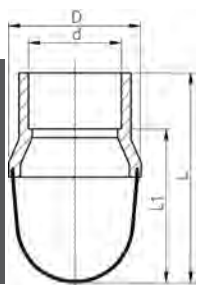
- For horizontal or vertical installation
- Sealing at a minimum water column of 1m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



NPT [inch]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
¾	10	16	190	161 562 101	1	0.130	161 562 111	1	0.130
½	15	16	180	161 562 102	1	0.130	161 562 112	1	0.130
¾	20	16	380	161 562 103	1	0.260	161 562 113	1	0.280
1	25	16	460	161 562 104	1	0.300	161 562 114	1	0.300
1 ¼	32	16	850	161 562 105	1	0.510	161 562 115	1	0.510
1 ½	40	16	1080	161 562 106	1	0.750	161 562 116	1	0.760
2	50	16	1670	161 562 107	1	1.330	161 562 117	1	1.330
2 ½	65	16	2950	161 562 108	1	3.230	161 562 118	1	3.250
3	80	16	3600	161 562 109	1	5.080	161 562 119	1	5.100
4	100	16	4150	161 562 110	1	8.150	161 562 120	1	8.190

NPT [inch]	D [mm]	L [mm]	L2 [mm]	z [mm]
¾	50	105	56	67
½	50	105	56	61
¾	58	121	65	70
1	68	133	71	76
1 ¼	84	154	85	90
1 ½	97	164	89	94
2	124	183	101	107
2 ½	166	233	136	144
3	200	254	141	151
4	238	301	164	174

PF 2 31 986 114



DN 15-50

PF 2 31 161 011

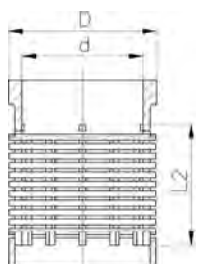
Screen assembly type 050 PVC-U Complete with barrel nipple metric/ASTM

Size [inch]	DN [mm]	kv-value ($\Delta p=1$ bar) [l/min]	Code	SP	Weight [kg]	D [mm]	L [mm]	L1 [mm]	perforations $\varnothing$ [mm]
1/2	15	105	161 050 186	1	0.045	50	64	80	2
3/4	20	228	161 050 187	1	0.041	50	64	83	2
1	25	390	161 050 188	1	0.073	50	64	86	2
1 1/4	32	563	161 050 189	1	0.145	90	105	131	2
1 1/2	40	813	161 050 190	1	0.228	90	105	136	2
2	50	1590	161 050 191	1	0.319	90	105	143	2

Screen type 050 PVC-U With solvent cement sockets metric

- For Screen Assemblies Type 050, PVC-U, DN 65-100

d [mm]	DN [mm]	Code	PF	Weight [kg]	D [mm]	L2 [mm]	Inch [inch]	lamina width [mm]
75	65	161 090 024	2 31 161 999	0.447	110	90		3
90	80	161 090 002	2 31 161 999	0.303	110	90		3
110	100	161 050 003			125	135	4	3

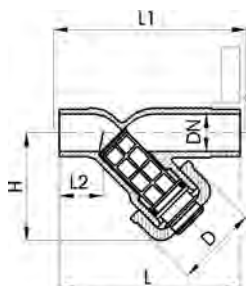


Line strainer type 306 PVC-U Transparent body with solvent cement spigots ASTM

Model:

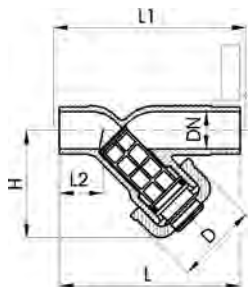
- Protects valves, pumps, etc. from becoming soiled
- Easy dismantling for cleaning the screens
- With screen PVC-U, perforation $\varnothing$ 0,8 mm

Size [inch]	DN [mm]	PN [bar]	EPDM Code	PF	SP	Weight [kg]
1/2	15	10	192 306 300	2 31 161 018	1	0.104
3/4	20	10	192 306 350	2 31 161 018	1	0.153
1	25	10	192 306 400	2 31 161 018	1	0.307
1 1/4	32	10	192 306 450	2 31 161 018	1	0.380
1 1/2	40	10	192 306 500	2 31 161 018	1	0.682
2	50	10	192 306 550	2 31 161 018	1	0.946
3	80	10	192 306 650	2 31 161 018	1	2.565



Size [inch]	FPM Code	PF	SP	Weight [kg]	D [mm]	H [mm]	L [mm]	L1 [mm]	L2 [mm]
1/2	192 306 349	2 31 161 019	1	0.110	43	65	143	149	37
3/4	192 306 399	2 31 161 019	1	0.170	47	76	160	166	45
1	192 306 449	2 31 161 019	1	0.255	56	90	174	180	47

table continued next page



Size [inch]	FPM Code	PF	SP	Weight [kg]	D [mm]	H [mm]	L [mm]	L1 [mm]	L2 [mm]	
1 ¼	192 306 499	2 31 161 019	1	0.409	64	104	188	194	53	
1 ½	192 306 549	2 31 161 019	1	0.635	82	124	205	211	54	
2	192 306 599	2 31 161 019	1	1.000	95	148	225	231	63	
3	192 306 699	2 31 161 019	1	2.800	120	205	311	321	90	



Cylindrical screen type 305 PVC-U Screen perforations 2.2 mm

- For line strainers Type 305

d [mm]	DN [mm]	kv-val- ue ($\Delta p=1$ bar) [l/min]	Code	SP	Weight [kg]	D [mm]	L [mm]	closest inch [inch]	
20	15	35	161 305 336	10	0.005	14	39	½	
25	20	65	161 305 386	10	0.003	18	48	¾	
32	25	90	161 305 436	5	0.003	24	60	1	
40	32	155	161 305 486	2	0.003	30	71	1 ¼	
50	40	225	161 305 536	1	0.005	38	87	1 ½	
63	50	370	161 305 586	2	0.008	48	106	2	
75	65	575	161 305 636	5	0.009	61	100	2 ½	
90	80	955	161 305 686	2	0.013	73	118	3	

PF 2 31 161 998



Cylindrical screen type 305 PVC-U Screen perforations 1.4 mm

- For line strainers Type 305

d [mm]	DN [mm]	kv-val- ue ($\Delta p=1$ bar) [l/min]	Code	SP	Weight [kg]	D [mm]	L [mm]	closest inch [inch]	
20	15	35	161 305 337	10	0.001	14	39	½	
25	20	65	161 305 387	10	0.003	18	48	¾	
32	25	90	161 305 437	5	0.003	24	60	1	
40	32	155	161 305 487	2	0.004	30	71	1 ¼	
50	40	225	161 305 537	1	0.005	38	87	1 ½	
63	50	370	161 305 587	2	0.008	48	106	2	
75	65	575	161 305 637	5	0.011	61	100	2 ½	
90	80	955	161 305 687	2	0.013	73	118	3	

PF 2 31 161 998



Cylindrical screen type 305 PVC-U Screen perforations 0.8 mm

- For line strainers Type 305

d [mm]	DN [mm]	kv-val- ue ($\Delta p=1$ bar) [l/min]	Code	SP	Weight [kg]	D [mm]	L [mm]	closest inch [inch]	
20	15	35	161 305 338	10	0.005	14	39	½	
25	20	65	161 305 388	10	0.007	18	48	¾	
32	25	90	161 305 438	5	0.003	24	60	1	
40	32	155	161 305 488	1	0.004	30	71	1 ¼	
50	40	225	161 305 538	1	0.006	38	87	1 ½	
63	50	370	161 305 588	2	0.003	48	106	2	
75	65	575	161 305 638	5	0.012	61	100	2 ½	
90	80	955	161 305 688	2	0.015	73	118	3	

PF 2 31 161 998



Cylindrical screen type 305 PVC-U

Screen perforations 0.5 mm

- For line strainers Type 305

d [mm]	Size [inch]	DN [mm]	kv-value (Δp=1 bar) [l/min]	Code	SP	Weight [kg]	D [mm]	L [mm]
20	½	15	35	161 305 339	10	0.001	14	39
25	¾	20	65	161 305 389	10	0.007	18	48
32	1	25	90	161 305 439	5	0.003	24	60
40	1 ¼	32	155	161 305 489	2	0.004	30	71
50	1 ½	40	225	161 305 539	1	0.007	38	87
63	2	50	370	161 305 589	2	0.009	48	106
75	2 ½	65	575	161 305 639	5	0.012	61	100
90	3	80	955	161 305 689	2	0.016	73	118

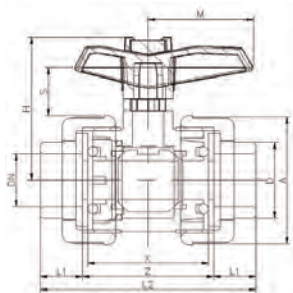
PF 2 31 161 998



PVC-U Inch BS

Hand-operated valves

Ball valve type 375 PVC-U, with blue handle
Double union ends connection, with safe block, ASTM solvent cement sockets



DN [mm]	L1 [mm]	d [inch]	L2 [mm]	Z [mm]	X [mm]	PN@20°C [bar]	M [mm]	S [mm]	A [mm]	H [mm]
15	16	½	91	48	42	16	40	18	49	55
20	19	¾	103	53	48	16	45	19	59	61
25	22	1	115	58	54	16	51	22	68	69
32	26	1 ¼	132	68	62	16	59	26	79	81
40	31	1 ½	146	78	72	16	70	28	94	92
50	38	2	168	93	86	16	84	37	115	108

EPDM Code Code	SP	Weight [kg]
300 141 933	1	0.130
300 141 934	1	0.210
300 141 935	1	0.305
300 141 936	1	0.450
300 141 937	1	0.695
300 141 938	1	1.200

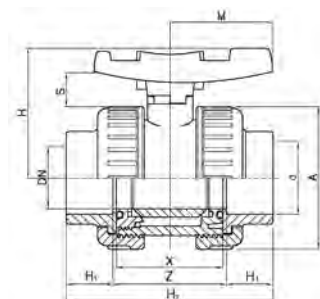
PF 2 31 378 803



Double union safe block ball valve PVC-U

With solvent cement sockets Inch BS

d [mm]	DN [mm]	d [inch]	PN [bar]	EPDM Code	PF	SP	Weight [kg]
75	65	2 ½	10	VSA22I750	2 02 956 010	8	2.200
		3	10	VSA22L900	2 02 956 011	4	3.310
		4	10	VSA22L910	2 02 956 011	2	5.925



L1 [mm]	L2 [mm]	S [mm]	H1 [mm]	A [mm]	H2 [mm]	X [mm]	M [mm]	Z [mm]	H [mm]
44	206	32		145		110	103	118	129
		36	51	168	242	128	120	140	143
		43	61	210	282	150	141	160	169



DN10/15 - 50



Ball valve type 546 PVC-U With lockable handle With solvent cement sockets Inch BS

Model:

- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Lockable hand lever with ratchet settings

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

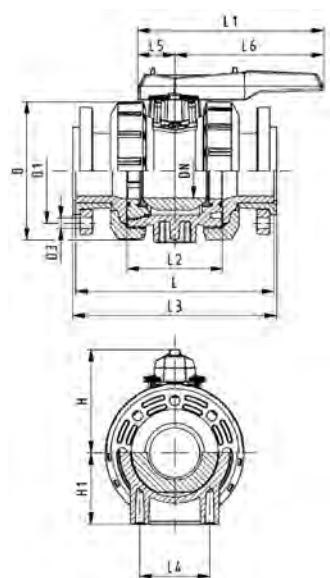
d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
75	3/8	10	16	71	161 546 221	2 31 546 804	1	0.165
	1/2	15	16	185	161 546 222	2 31 546 804	1	0.164
	3/4	20	16	350	161 546 223	2 31 546 804	1	0.255
	1	25	16	700	161 546 224	2 31 546 804	1	0.358
	1 1/4	32	16	1000	161 546 225	2 31 546 804	1	0.625
	1 1/2	40	16	1600	161 546 226	2 31 546 804	1	0.855
	2	50	16	3100	161 546 227	2 31 546 804	1	1.605
	2 1/2	65	16	5000	161 546 088	2 31 546 604	0	5.200
	3	80	16	7000	161 546 229	2 31 546 604	0	7.700
	4	100	16	11000	161 546 230	2 31 546 604	0	12.000

FPM Code	PF	SP	Weight [kg]
161 546 231	2 31 546 804	1	0.165
161 546 232	2 31 546 804	1	0.165
161 546 233	2 31 546 804	1	0.255
161 546 234	2 31 546 804	1	0.355
161 546 235	2 31 546 804	1	0.625
161 546 236	2 31 546 804	1	0.855
161 546 237	2 31 546 804	1	1.535
161 546 098	2 31 546 604	0	5.200
161 546 239	2 31 546 604	0	7.700
161 546 240	2 31 546 604	0	12.000

D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	closest inch [inch]
50	79	27	12	92	87	56	25	42	45	M6	60	
50	79	27	12	95	87	56	25	42	45	M6	60	
58	88	30	12	110	108	65	25	50	58	M6	69	
68	94	36	12	123	108	71	25	50	58	M6	75	
84	113	44	15	146	140	85	45	66	75	M8	89	
97	119	51	15	157	140	89	45	66	75	M8	97	

table continued next page

D	H	H1	H2	L	L1	L2	L4	L5	L6	M	z	closest inch	
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	[inch]	
124	141	64	15	183	165	101	45	78	87	M8	110	2 ½	
166	224	85	15	233	270	136	70	64	206	M8	144		
200	235	105	15	254	270	141	70	64	206	M8	151		
238	245	123	22	301	320	164	120	64	256	M12	174		



Ball valve type 546 PVC-U With mounting inserts With backing flanges PVC-U ASTM/ANSI

Model:

- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Overall length according to EN 558
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

Size	DN	PN	kv-val-ue (Δp=1 bar)	EPDM Code	SP	Weight	FPM Code	SP	Weight	
[inch]	[mm]	[bar]	[l/min]			[kg]			[kg]	
2 ½	65	10	5000	161 546 168	0	7.300	161 546 178	0	7.300	
3	80	10	7000	161 546 169	0	10.600	161 546 179	1	10.020	
4	100	10	11000	161 546 170	0	16.400	161 546 180	0	16.400	

Size	D	D1	D3	H	H1	L	L1	L2	L3	L4	L5	L6	M	
[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
2 ½	166	140	19	149	85	284	270	136	290	70	64	206	8	
3	200	152	19	161	105	300	270	141	310	70	64	206	8	
4	238	191	19	178	123	340	320	164	350	120	64	256	12	

PF 2 31 546 603



Ball valve type 546 PVC-U With mounting inserts With solvent cement sockets inch BS

Model:

- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
75	3/8	10	16	71	161 546 241	2 31 546 804	1	0.150
	1/2	15	16	185	161 546 242	2 31 546 804	1	0.150
	3/4	20	16	350	161 546 243	2 31 546 804	1	0.230
	1	25	16	700	161 546 244	2 31 546 804	1	0.335
	1 1/4	32	16	1000	161 546 245	2 31 546 804	1	0.585
	1 1/2	40	16	1600	161 546 246	2 31 546 804	1	0.850
	2	50	16	3100	161 546 247	2 31 546 804	1	1.567
	2 1/2	65	16	5000	161 546 068	2 31 546 604	1	4.343
	3	80	16	7000	161 546 249	2 31 546 604	1	5.607
	4	100	16	11000	161 546 250	2 31 546 604	1	8.531

FPM Code	PF	SP	Weight [kg]
161 546 251	2 31 546 804	1	0.150
161 546 252	2 31 546 804	1	0.150
161 546 253	2 31 546 804	1	0.230
161 546 254	2 31 546 804	1	0.330
161 546 255	2 31 546 804	1	0.585
161 546 256	2 31 546 804	1	0.862
161 546 257	2 31 546 804	1	1.582
161 546 078	2 31 546 604	1	3.563
161 546 259	2 31 546 604	1	5.404
161 546 260	2 31 546 604	1	8.581

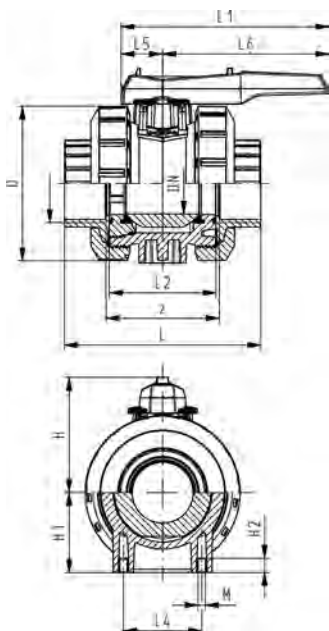
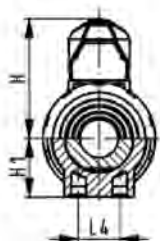
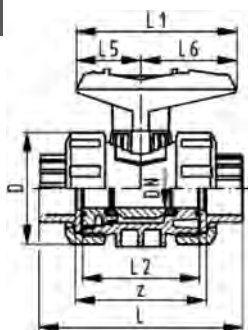
D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	closest inch [inch]
50	57	27	12	92	77	56	25	32	45	6	67	2 1/2
50	57	27	12	95	77	56	25	32	45	6	61	
58	67	30	12	110	97	65	25	39	58	6	70	
68	73	36	12	123	97	71	25	39	58	6	76	
84	90	44	15	146	128	85	45	54	74	8	90	
97	97	51	15	157	128	89	45	54	74	8	94	
124	116	64	15	183	152	101	45	66	87	8	107	
166	149	85	15	233	270	136	70	64	206	8	144	
200	161	105	15	254	270	141	70	64	206	8	151	
238	178	123	22	301	320	164	120	64	256	12	174	



DN10/15 - 50



UPVC Valves



Ball valve type 546 PVC-U With solvent cement sockets Inch BS

Model:

- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
75	3/8	10	16	71	161 546 201	2 31 546 804	1	0.151
	1/2	15	16	185	161 546 202	2 31 546 804	1	0.149
	3/4	20	16	350	161 546 203	2 31 546 804	1	0.229
	1	25	16	700	161 546 204	2 31 546 804	1	0.334
	1 1/4	32	16	1000	161 546 205	2 31 546 804	1	0.588
	1 1/2	40	16	1600	161 546 206	2 31 546 804	1	0.843
	2	50	16	3100	161 546 207	2 31 546 804	1	1.564
		65	16	5000	161 546 008	2 31 546 604	1	3.781
	3	80	16	7000	161 546 209	2 31 546 604	1	6.189
	4	100	16	11000	161 546 210	2 31 546 604	0	11.600

FPM Code	PF	SP	Weight [kg]
161 546 211	2 31 546 804	1	0.150
161 546 212	2 31 546 804	1	0.150
161 546 213	2 31 546 804	1	0.230
161 546 214	2 31 546 804	1	0.336
161 546 215	2 31 546 804	1	0.585
161 546 216	2 31 546 804	1	0.815
161 546 217	2 31 546 804	1	1.577
161 546 018	2 31 546 604	1	3.794
161 546 219	2 31 546 604	0	7.400
161 546 220	2 31 546 604	0	11.600

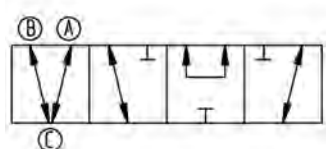
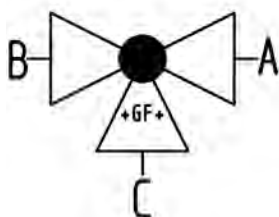
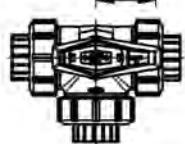
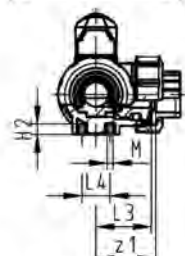
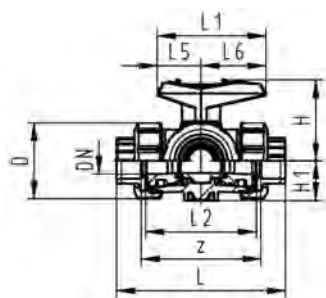
D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	z [mm]	closest inch [inch]
50	57	27	92	77	56	25	32	45	60	2 1/2
50	57	27	95	77	56	25	32	45	60	
58	67	30	110	97	65	25	39	58	69	
68	73	36	123	97	71	25	39	58	75	
84	90	44	146	128	85	45	54	74	89	
97	97	51	157	128	89	45	54	74	97	
124	116	64	183	152	101	45	66	87	110	
166	149	85	233	270	136	70	64	206	144	
200	161	105	254	270	141	70	64	206	151	
238	178	123	301	320	164	120	64	256	174	



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

Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme



Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
3/8	10	10	140	161 543 261	1	0.244	161 543 271	1	0.244
1/2	15	10	200	161 543 262	1	0.250	161 543 272	1	0.250
3/4	20	10	470	161 543 263	1	0.359	161 543 273	1	0.359
1	25	10	793	161 543 264	1	0.544	161 543 274	1	0.544
1 1/4	32	10	1290	161 543 265	1	0.927	161 543 275	1	0.927
1 1/2	40	10	1910	161 543 266	1	1.370	161 543 276	1	1.391
2	50	10	3100	161 543 267	1	2.689	161 543 277	1	2.660

Size [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M [mm]	z [mm]	z1 [mm]
3/8	50	57	28	8	109	77	73	36	25	32	45	6	77	38
1/2	50	57	28	8	112	77	73	36	25	32	45	6	77	38
3/4	58	67	32	8	131	97	86	43	25	39	58	6	90	45
1	68	73	36	8	151	97	99	50	25	39	58	6	103	52
1 1/4	84	90	45	9	181	128	120	60	45	54	74	8	124	62
1 1/2	97	97	51	9	205	128	137	69	45	54	74	8	145	73
2	124	116	65	9	261	152	179	89	45	66	87	8	189	94

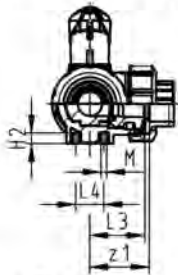
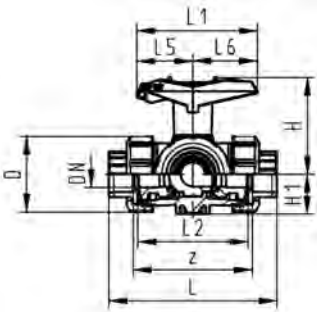
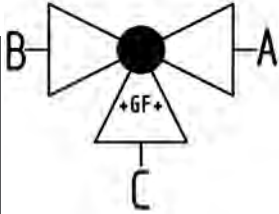
PF 2 31 001 804



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

Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Multifunctional lever red with ratched setting 45°, lockable
- Delivery status A-C opened, see flow scheme



Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
3/8	10	10	50	161 543 861	1	0.259	161 543 871	1	0.259
1/2	15	10	75	161 543 862	1	0.265	161 543 872	1	0.265
3/4	20	10	150	161 543 863	1	0.378	161 543 873	1	0.378
1	25	10	280	161 543 864	1	0.568	161 543 874	1	0.568
1 1/4	32	10	480	161 543 865	1	0.961	161 543 875	1	0.961
1 1/2	40	10	620	161 543 866	1	1.413	161 543 876	1	1.413
2	50	10	1230	161 543 867	1	2.736	161 543 877	1	2.736

Size [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	z1 [mm]
3/8	50	79	28	8	109	87	73	36	25	42	45	6	77	38
1/2	50	79	28	8	112	87	73	36	25	42	45	6	77	38
3/4	58	88	32	8	131	108	86	43	25	50	58	6	90	45
1	68	94	36	8	151	108	99	50	25	50	58	6	103	52
1 1/4	84	113	45	9	181	141	120	60	45	66	75	8	124	62
1 1/2	97	119	51	9	205	141	137	69	45	66	75	8	145	73
2	124	141	65	9	261	165	179	89	45	78	87	8	189	94

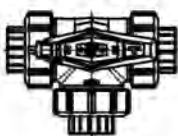
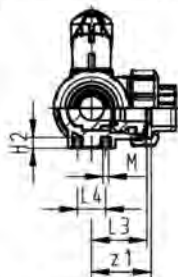
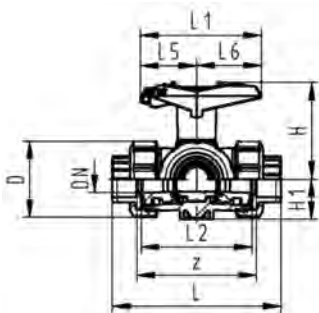
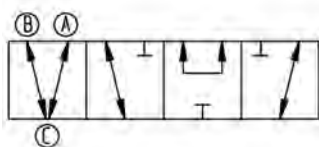
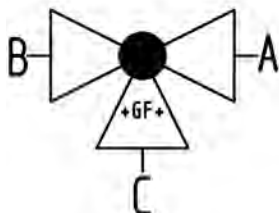
PF 2 31 001 804



3-Way ball valve type 543 PVC-U Horizontal/T-port With lockable handle With solvent cement sockets BS

Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Multifunctional lever red with ratched setting 45°, lockable
- Delivery status A-B-C opened, see flow scheme



Size [inch]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
3/8	10	10	140	161 543 881	1	0.258	161 543 891	1	0.258
1/2	15	10	200	161 543 882	1	0.264	161 543 892	1	0.264
3/4	20	10	470	161 543 883	1	0.376	161 543 893	1	0.376
1	25	10	793	161 543 884	1	0.561	161 543 894	1	0.561
1 1/4	32	10	1290	161 543 885	1	0.950	161 543 895	1	0.950
1 1/2	40	10	1910	161 543 886	1	1.392	161 543 896	1	1.392
2	50	10	3100	161 543 887	1	2.691	161 543 897	1	2.691

Size [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	z1 [mm]
3/8	50	79	28	8	109	87	73	36	25	42	45	6	77	38
1/2	50	79	28	8	112	87	73	36	25	42	45	6	77	38
3/4	58	88	32	8	131	108	86	43	25	50	58	6	90	45
1	68	94	36	8	151	108	99	50	25	50	58	6	103	52
1 1/4	84	113	45	9	181	141	120	60	45	66	75	8	124	62
1 1/2	97	119	51	9	205	141	137	69	45	66	75	8	145	73
2	124	141	65	9	261	165	179	89	45	78	87	8	189	94

PF 2 31 001 804



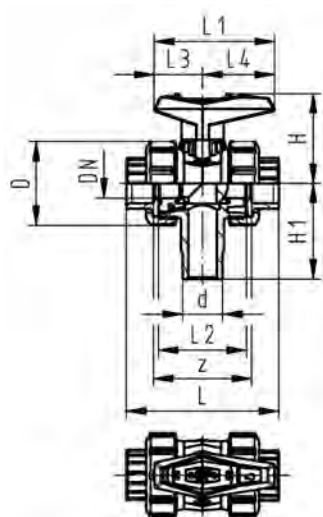
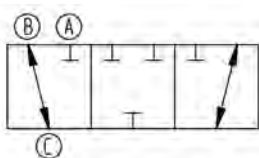
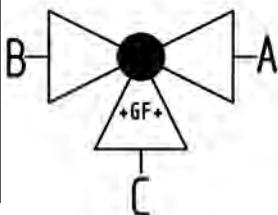
3-Way ball valve type 543 PVC-U Vertical/L-port With solvent cement sockets BS

Model:

- Vertical inlet solvent cement spigot metric
- Easy installation and removal using union on third outlet
- Ball seals PTFE
- Electric actuator available separately
- Angle of operation 360° without turn limiter
- Delivery status B-C opened, see flow scheme

Mode of action:

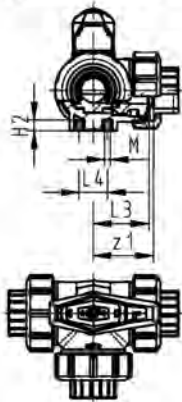
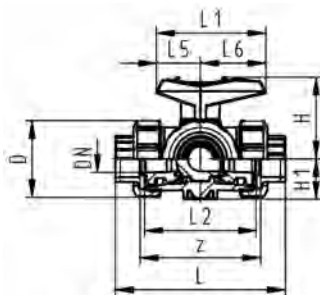
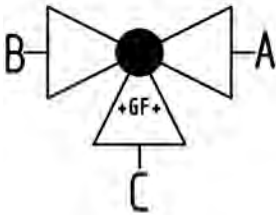
- For interconnection of two inputs



Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
3/8	10	10	49	161 543 601	1	0.162	161 543 611	1	0.162
1/2	15	10	77	161 543 602	1	0.166	161 543 612	1	0.166
3/4	20	10	146	161 543 603	1	0.255	161 543 613	1	0.255
1	25	10	260	161 543 604	1	0.372	161 543 614	1	0.372
1 1/4	32	10	437	161 543 605	1	0.622	161 543 615	1	0.622
1 1/2	40	10	667	161 543 606	1	0.886	161 543 616	1	0.886
2	50	10	1293	161 543 607	1	1.617	161 543 617	1	1.617

Size [inch]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	z [mm]
3/8	50	57	62	92	77	56	32	45	60
1/2	50	57	62	95	77	56	32	45	60
3/4	58	67	72	111	97	66	39	58	69
1	68	73	77	123	97	71	39	58	75
1 1/4	84	90	87	146	128	85	54	74	89
1 1/2	97	97	97	157	128	89	54	74	97
2	124	116	112	183	152	101	66	87	110

PF 2 31 001 904



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

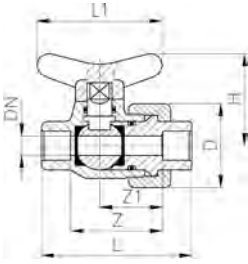
Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme

Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
3/8	10	10	50	161 543 061	1	0.245	161 543 071	1	0.245
1/2	15	10	75	161 543 062	1	0.251	161 543 072	1	0.251
3/4	20	10	150	161 543 063	1	0.361	161 543 073	1	0.361
1	25	10	280	161 543 064	1	0.551	161 543 074	1	0.551
1 1/4	32	10	480	161 543 065	1	0.938	161 543 075	1	0.938
1 1/2	40	10	620	161 543 066	1	1.388	161 543 076	1	1.390
2	50	10	1230	161 543 067	1	2.728	161 543 077	1	2.705

Size [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	z1 [mm]
3/8	50	57	28	8	109	77	73	36	25	32	45	6	77	38
1/2	50	57	28	8	112	77	73	36	25	32	45	6	77	38
3/4	58	67	32	8	131	97	86	43	25	39	58	6	90	45
1	68	73	36	8	151	97	99	50	25	39	58	6	103	52
1 1/4	84	90	45	9	181	128	120	60	45	54	74	8	124	62
1 1/2	97	97	51	9	205	128	137	69	45	54	74	8	145	73
2	124	116	65	9	261	152	179	89	45	66	87	8	189	94

PF 2 31 001 804



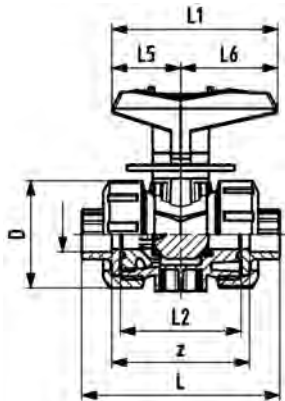
Laboratory ball cock type 322 PVC-U With solvent cement sockets Inch BS/ASTM

Model:

- Disconnection one end only
- Ball seals PTFE
- Angle of operation 90°

DN [mm]	PN [bar]	EPDM Code	PF	SP	Weight [kg]							
6	10	161 324 150	2 31 156 024	0	0.043							
8	10	161 324 200	2 31 156 024	5	0.044							

FPM Code	PF	SP	Weight [kg]	D [mm]	H [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	Inch [inch]		
161 324 199	2 31 156 025	40	0.042	34	38	52	45	26	15	1/8		
161 324 249	2 31 156 025	5	0.045	34	38	60	45	36	25	1/4		



Metering ball valve type 523 PVC-U With mounting inserts With solvent cement sockets Inch BS Larger sizes available to 2" on request

Model:

- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seals PTFE
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts **not compatible** to Type 323

Option:

- Other materials on demand

Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]			
3/8	10	10	11	161 523 501	1	0.170	161 523 511	1	0.170			
1/2	15	10	20	161 523 502	1	0.170	161 523 512	1	0.170			

Size [inch]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	z [mm]		
3/8	50	68	27	92	77	56	25	32	45	60		
1/2	50	68	27	95	77	56	25	32	45	60		

PF 2 31 A13 804



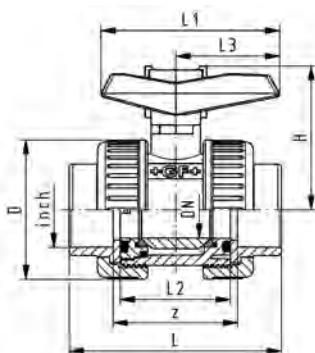
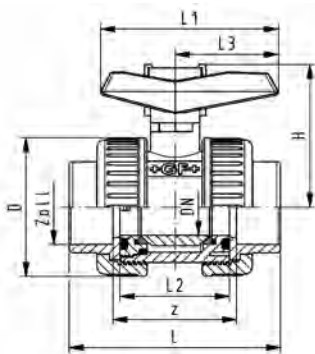
Ball valve type 375 PVC-U With solvent cement sockets Inch BS

Model:

- For easy installation and removal
- Ball seals PTFE
- Actuator unit not connectable
- z-dimension, valve end and union nut are not compatible with type 546

Range of use:

- Basic applications of the water treatment sector as well as other applications involving water.



d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	PF	SP	Weight [kg]	
75	3/8	10	16	71	161 375 601	2 31 378 804	1	0.131	
	1/2	15	16	185	161 375 602	2 31 378 804	1	0.128	
	3/4	20	16	350	161 375 603	2 31 378 804	1	0.210	
	1	25	16	700	161 375 604	2 31 378 804	1	0.292	
	1 1/4	32	16	1000	161 375 605	2 31 378 804	1	0.434	
	1 1/2	40	16	1600	161 375 606	2 31 378 804	1	0.695	
	2	50	16	3100	161 375 607	2 31 378 804	1	1.208	
		65	10	5000	161 375 508	2 31 378 801	1	2.191	

FPM Code	PF	SP	Weight [kg]	D [mm]	H [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	z [mm]	
161 375 611	2 31 378 804	1	0.130	50	53	76	67	42	40	48	
161 375 612	2 31 378 804	1	0.130	50	53	80	67	42	40	48	
161 375 613	2 31 378 804	1	0.210	59	60	91	77	48	45	53	
161 375 614	2 31 378 804	1	0.297	68	67	102	87	54	51	58	
161 375 615	2 31 378 804	1	0.450	80	79	120	102	62	59	68	
161 375 616	2 31 378 804	1	0.695	94	90	140	119	72	70	78	
161 375 617	2 31 378 804	1	1.200	115	107	169	146	86	84	93	
161 375 518	2 31 378 801	1	2.216	145	129	206	179	110	103	118	



3-Way ball valve type 544 PVC-U Vertical diverter ball With solvent cement sockets ASTM

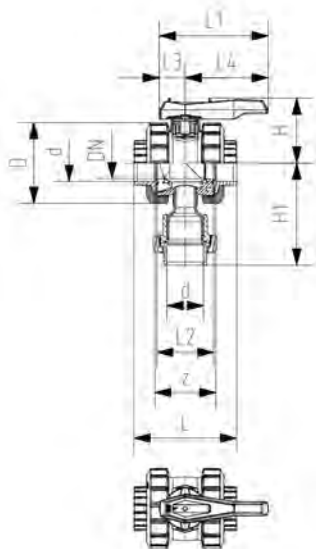
Model:

- Special valve in general accordance to ISO 16135
- Ball seals PTFE
- Electric actuator available separately
- Angle of operation 90°

Mode of action:

- For interconnection of two inputs

Individual configuration available on special request



Size [inch]	DN [mm]	PN [bar]	EPDM Code	SP	Weight [kg]	GP	FPM Code	
2 1/2	65	6	161 544 308	1	5.736	0	161 544 318	
3	80	6	161 544 309	1	8.120	0	161 544 319	
4	100	6	161 544 310	1	13.520	0	161 544 320	

D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	z [mm]	
166	224	222	233	270	136	64	206	144	
200	235	264	254	270	141	64	206	151	
238	245	289	301	320	164	64	256	174	

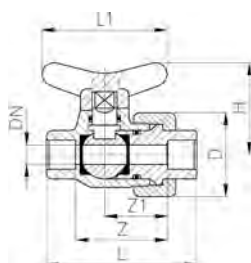
PF 2 31 001 903



Laboratory ball cock type 322 PVC-U With solvent cement sockets Inch BS/ASTM

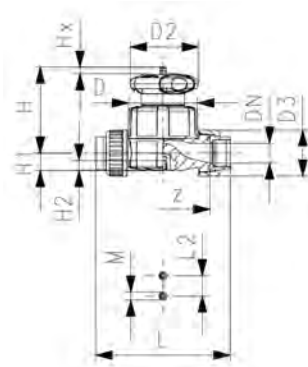
Model:

- Disconnection one end only
- Ball seals PTFE
- Angle of operation 90°



DN [mm]	PN [bar]	EPDM Code	PF	SP	Weight [kg]	
6	10	161 324 150	2 31 156 024	0	0.043	
8	10	161 324 200	2 31 156 024	5	0.044	

FPM Code	PF	SP	Weight [kg]	D [mm]	H [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	Inch [inch]	
161 324 199	2 31 156 025	40	0.042	34	38	52	45	26	15	1/8	
161 324 249	2 31 156 025	5	0.045	34	38	60	45	36	25	1/4	



Diaphragm valve type 514 PVC-U With solvent cement sockets BS

Model:

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

Option:

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

Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	NBR Code	SP	Weight [kg]	EPDM Code	SP	Weight [kg]
½	15	10	125	161 514 502	1	0.396	161 514 512	1	0.296
¾	20	10	271	161 514 503	1	0.524	161 514 513	1	0.422
1	25	10	481	161 514 504	1	1.159	161 514 514	1	0.671
1 ¼	32	10	759	161 514 505	1	1.419	161 514 515	1	0.942
1 ½	40	10	1263	161 514 506	1	2.528	161 514 516	1	1.636
2	50	10	1728	161 514 507	1	3.409	161 514 517	1	2.514

Size [inch]	PTFE/EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
½	161 514 532	1	0.295	161 514 562	1	0.396
¾	161 514 533	1	0.536	161 514 563	1	0.432
1	161 514 534	1	1.179	161 514 564	1	0.687
1 ¼	161 514 535	1	1.439	161 514 565	1	1.419
1 ½	161 514 536	1	2.558	161 514 566	1	2.528
2	161 514 537	1	2.564	161 514 567	1	3.409

Size [inch]	D [mm]	D2 [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L2 [mm]	M	z [mm]	Lift = Hx [mm]
½	65	65	43	73	14	12	128	25	M6	96	7
¾	80	65	51	81	18	12	152	25	M6	114	10
1	88	87	58	107	22	12	166	25	M6	122	13
1 ¼	101	87	72	115	26	15	192	45	M8	140	15
1 ½	117	135	83	148	32	15	222	45	M8	160	19
2	144	135	100	166	39	15	266	45	M8	190	25

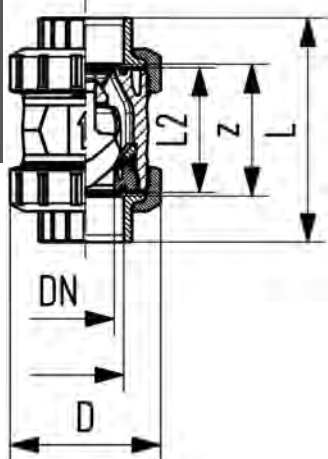
PF 2 31 780 025



Check valve type 561 PVC-U With solvent cement sockets Inch BS

Model:

- Sealing at a minimum water column of 2m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	PF	SP	Weight [kg]	
75	3/8	10	16	190	161 561 061	2 31 986 214	1	0.120	
	1/2	15	16	180	161 561 062	2 31 986 214	1	0.120	
	3/4	20	16	380	161 561 063	2 31 986 214	1	0.250	
	1	25	16	460	161 561 064	2 31 986 214	1	0.276	
	1 1/4	32	16	850	161 561 065	2 31 986 214	1	0.490	
	1 1/2	40	16	1080	161 561 066	2 31 986 214	1	0.760	
	2	50	16	1670	161 561 067	2 31 986 214	1	1.374	
		65	16	2950	161 561 008	2 31 986 211	1	3.160	
	3	80	16	3600	161 561 069	2 31 986 214	1	5.070	
	4	100	16	4150	161 561 070	2 31 986 214	1	8.010	

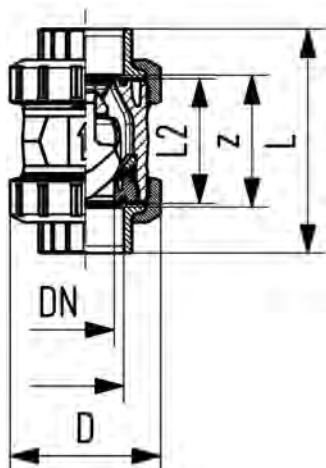
FPM Code	PF	SP	Weight [kg]	D [mm]	L [mm]	L2 [mm]	z [mm]	closest inch [inch]	
161 561 071	2 31 986 214	1	0.120	50	92	56	60	2 1/2	
161 561 072	2 31 986 214	1	0.120	50	95	56	60		
161 561 073	2 31 986 214	1	0.270	58	110	65	69		
161 561 074	2 31 986 214	1	0.280	68	123	71	75		
161 561 075	2 31 986 214	1	0.490	84	146	85	89		
161 561 076	2 31 986 214	1	0.770	97	157	89	97		
161 561 077	2 31 986 214	1	1.370	124	183	101	110		
161 561 018	2 31 986 211	1	3.170	166	233	136	144		
161 561 079	2 31 986 214	1	5.090	200	254	141	151		
161 561 080	2 31 986 214	1	8.050	238	301	164	174		



Check valve type 562 PVC-U With solvent cement sockets Inch BS

Model:

- For horizontal or vertical installation
- Sealing at a minimum water column of 1m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

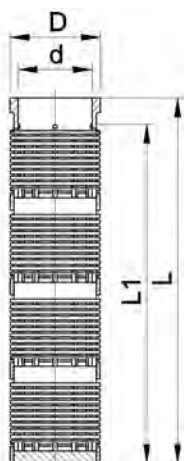


d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	PF	SP	Weight [kg]	
75	3/8	10	16	190	161 562 061	2 31 986 114	1	0.120	
	1/2	15	16	180	161 562 062	2 31 986 114	1	0.120	
	3/4	20	16	380	161 562 063	2 31 986 114	1	0.250	
	1	25	16	460	161 562 064	2 31 986 114	1	0.280	
	1 1/4	32	16	850	161 562 065	2 31 986 114	1	0.490	
	1 1/2	40	16	1080	161 562 066	2 31 986 114	1	0.760	
	2	50	16	1670	161 562 067	2 31 986 114	1	1.378	
		65	16	2950	161 562 008	2 31 986 111	1	3.160	
	3	80	16	3600	161 562 069	2 31 986 114	1	5.070	
	4	100	16	4150	161 562 070	2 31 986 114	1	8.010	

FPM Code	PF	SP	Weight [kg]	D [mm]	L [mm]	L2 [mm]	z [mm]	closest inch [inch]	
161 562 071	2 31 986 114	1	0.120	50	92	56	60	2 1/2	
161 562 072	2 31 986 114	1	0.120	50	95	56	60		
161 562 073	2 31 986 114	1	0.270	58	110	65	69		
161 562 074	2 31 986 114	1	0.280	68	123	71	75		
161 562 075	2 31 986 114	1	0.490	84	146	85	89		
161 562 076	2 31 986 114	1	0.770	97	157	89	97		
161 562 077	2 31 986 114	1	1.370	124	183	101	110		
161 562 018	2 31 986 111	1	3.170	166	233	136	144		
161 562 079	2 31 986 114	1	5.090	200	254	141	151		
161 562 080	2 31 986 114	1	8.050	238	301	164	174		



DN65-100



DN 65-100

PF 2 31 161 011

Screen assembly type 050 PVC-U With solvent cement sockets BS/ASTM

Model:

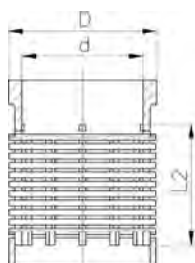
- ² Screen with 2 extensions and end plate, solvent cemented
- Modular extensions can be lengthened as required

d [mm]	Size [inch]	DN [mm]	kv-value (Δp=1 bar) [l/min]	Code	SP	Weight [kg]	
90	3	80	14790	161 050 053	1	0.930	

D [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	lamina width [mm]	
110	312	345	90	103	3	

Screen type 050 PVC-U With solvent cement sockets BS/ASTM

- For Screen Assemblies Type 050, PVC-U, DN 65-100



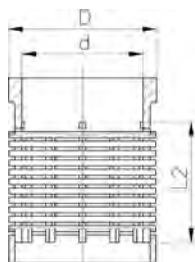
PF 2 31 161 999

d [mm]	Size [inch]	DN [mm]	Code	SP	Weight [kg]	D [mm]	L2 [mm]	lamina width [mm]	
75	2 ½	65	161 090 024	1	0.447	110	90	3	
90	3	80	161 090 016	1	0.300	110	90	3	
110	4	100	161 090 017	17	0.440	125	135	3	

Screen type 050 PVC-U With solvent cement sockets metric

- For Screen Assemblies Type 050, PVC-U, DN 65-100

d [mm]	Size [inch]	DN [mm]	Code	SP	Weight [kg]	D [mm]	L2 [mm]	
75	2 ½	65	161 090 024	1	0.447	110	90	
90	3	80	161 090 002	0	0.303	110	90	
110	4	100	161 090 003	1	0.469	125	135	

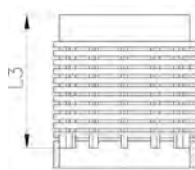


PF 2 31 161 999

Extention type 050 PVC-U

- For Screen Assemblies Type 050, PVC-U, DN 65-100

DN-DN [mm]	Code	SP	Weight [kg]	L3 [mm]	Inch [inch]	d-d [mm]	
65 - 100	161 090 019	0	0.249	103	2 1/2 - 4	75 - 110	

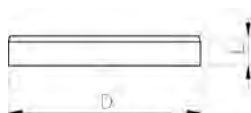
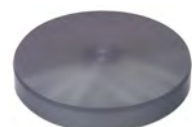


PF 2 31 161 999

Plate type 050 PVC-U

- For Screen Assemblies Type 050, PVC-U, DN 65-100

DN-DN [mm]	Code	SP	Weight [kg]	D [mm]	L [mm]	Inch [inch]	d-d [mm]	
65 - 100	161 090 018	1	0.155	100	16	2 1/2 - 4	75 - 110	



PF 2 31 161 999

PVC-U Inch BS

Actuated valves

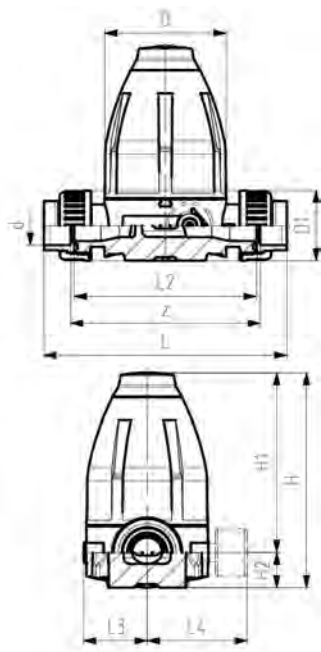
Pressure reducing valve type 582 PVC-U Unions with solvent cement sockets Inch BS Without manometer

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



DN [mm]	PN [bar]	O-rings EPDM Code	Weight [kg]	SP	GP	O-rings FPM Code							
15	10	161 582 302	0.700	1	0	161 582 312							
20	10	161 582 303	1.490	1	0	161 582 313							
25	10	161 582 304	1.520	1	0	161 582 314							
32	10	161 582 305	4.070	1	0	161 582 315							
40	10	161 582 306	4.240	1	0	161 582 316							
50	10	161 582 307	4.470	1	0	161 582 317							
D [mm]	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L2 [mm]	L3 [mm]	L5 [mm]	M	z [mm]	Inch [inch]	
79	43	132	111	21	12	161	120	42	40	M6	126	1/2	
100	51	177	148	29	14	198	150	53	46	M6	156	3/4	
100	58	177	148	29	14	204	150	53	46	M6	156	1	
147	72	251	207	44	21	266	205	76	65	M8	211	1 1/4	
147	83	251	207	44	21	273	205	76	65	M8	211	1 1/2	
147	101	251	207	44	21	285	205	76	65	M8	211	2	

PF 3 39 A71 001

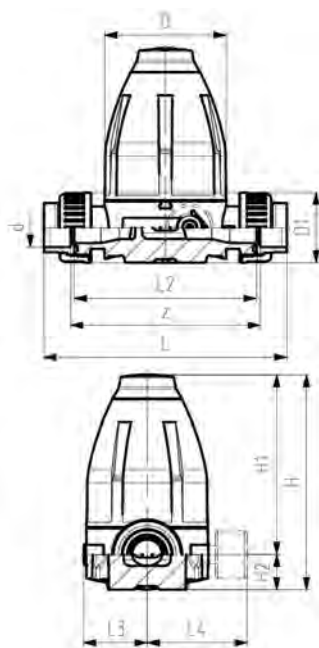


Pressure reducing valve type 582 PVC-U Unions with solvent cement sockets Inch BS With manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)
- Attention: Manometer with brass connection in direct contact with medium. Check for chemical resistance, otherwise chose the optional manometer adapter for media separation.

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



DN [mm]	PN [bar]	O-rings EPDM Code	Weight [kg]	SP	GP	O-rings FPM Code	
15	10	161 582 322	0.730	1	0	161 582 332	
20	10	161 582 323	1.520	1	0	161 582 333	
25	10	161 582 324	1.550	1	0	161 582 334	
32	10	161 582 325	4.100	1	0	161 582 335	
40	10	161 582 326	4.270	1	0	161 582 336	
50	10	161 582 327	4.500	1	0	161 582 337	

D [mm]	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	M	z [mm]	Inch [inch]	
79	43	132	111	21	12	161	120	42	77	40	M6	126	1/2	
100	51	177	148	29	14	198	150	53	88	46	M6	156	3/4	
100	58	177	148	29	14	204	150	53	88	46	M6	156	1	
147	72	251	207	44	21	266	205	76	111	65	M8	211	1 1/4	
147	83	251	207	44	21	273	205	76	111	65	M8	211	1 1/2	
147	101	251	207	44	21	285	205	76	111	65	M8	211	2	

PF 3 39 A71 001



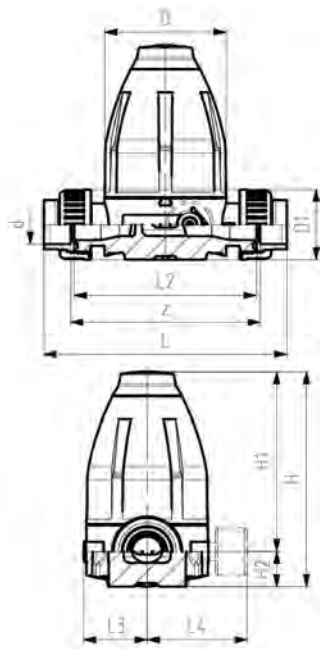
Pressure retaining valve type 586 PVC-U Unions with solvent cement sockets Inch BS Without manometer

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

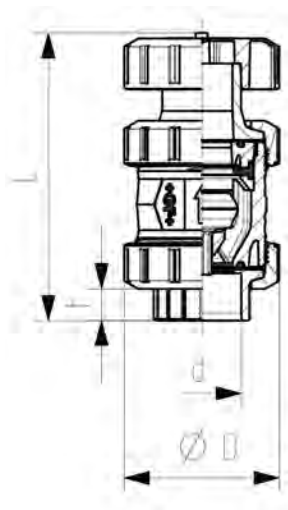
Manometer on request



DN [mm]	PN [bar]	O-rings EPDM Code	Weight [kg]	SP	GP	O-rings FPM Code							
15	10	161 586 302	0.690	1	0	161 586 312							
20	10	161 586 303	1.510	1	0	161 586 313							
25	10	161 586 304	1.540	1	0	161 586 314							
32	10	161 586 305	4.200	1	0	161 586 315							
40	10	161 586 306	4.260	1	0	161 586 316							
50	10	161 586 307	4.500	1	0	161 586 317							

D [mm]	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L2 [mm]	L3 [mm]	L5 [mm]	M	z [mm]	Inch [inch]		
79	43	132	111	21	12	161	120	42	40	M6	126	1/2		
100	51	177	148	29	14	198	150	53	46	M6	156	3/4		
100	58	177	148	29	14	204	150	53	46	M6	156	1		
147	72	251	207	44	21	266	205	76	65	M8	211	1 1/4		
147	83	251	207	44	21	273	205	76	65	M8	211	1 1/2		
147	101	251	207	44	21	285	205	76	65	M8	211	2		

PF 3 39 A71 002



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

Model:

- With protection cap up to DN50 made from PP-GF, DN65-100 made from POM
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length

d [mm]	Size [inch]	DN [mm]	PN [bar]	EPDM Code	PF	FPM Code	PF	
75	3/8	10	16	161 591 061	2 31 986 312	161 591 071	2 31 986 312	
	1/2	15	16	161 591 062	2 31 986 312	161 591 072	2 31 986 312	
	3/4	20	16	161 591 063	2 31 986 312	161 591 073	2 31 986 312	
	1	25	16	161 591 064	2 31 986 312	161 591 074	2 31 986 312	
	1 1/4	32	16	161 591 065	2 31 986 312	161 591 075	2 31 986 312	
	1 1/2	40	16	161 591 066	2 31 986 312	161 591 076	2 31 986 312	
	2	50	16	161 591 067	2 31 986 312	161 591 077	2 31 986 312	
		65	16	161 591 008	2 31 986 311	161 591 018	2 31 986 311	
	3	80	16	161 591 069	2 31 986 312	161 591 079	2 31 986 312	
	4	100	16	161 591 070	2 31 986 312	161 591 080	2 31 986 312	

D [mm]	L [mm]	t [mm]	closest inch [inch]	
50	118	16	2 1/2	
50	124	18		
58	142	21		
68	157	24		
84	179	29		
97	197	30		
124	229	36		
166	258	45		
200	277	51		
238	320	64		

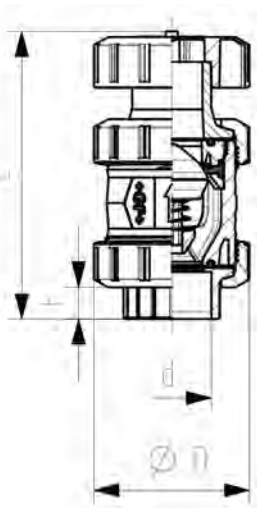


Ventilating valve type 595 PVC-U With solvent cement sockets Inch BS

Model:

- With protection cap up to DN50 made from PP-GF, DN65-100 made from POM
- Spring loaded, spring made of NIMONIC 90, HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length

d [mm]	Size [inch]	DN [mm]	PN [bar]	EPDM Code	PF	FPM Code	PF	
75	3/8	10	16	161 595 061	2 31 986 412	161 595 071	2 31 986 412	
	1/2	15	16	161 595 062	2 31 986 412	161 595 072	2 31 986 412	
	3/4	20	16	161 595 063	2 31 986 412	161 595 073	2 31 986 412	
	1	25	16	161 595 064	2 31 986 412	161 595 074	2 31 986 412	
	1 1/4	32	16	161 595 065	2 31 986 412	161 595 075	2 31 986 412	
	1 1/2	40	16	161 595 066	2 31 986 412	161 595 076	2 31 986 412	
	2	50	16	161 595 067	2 31 986 412	161 595 077	2 31 986 412	
		65	16	161 595 008	2 31 986 411	161 595 018	2 31 986 411	
	3	80	16	161 595 069	2 31 986 412	161 595 079	2 31 986 412	
	4	100	16	161 595 070	2 31 986 412	161 595 080	2 31 986 412	



D [mm]	L [mm]	t [mm]	closest inch [inch]	
50	118	16		
50	124	18		
58	142	21		
68	157	24		
84	179	29		
97	197	30		
124	229	36		
166	258	45	2 1/2	
200	277	51		
238	320	64		

UPVC Metric - Pipe, Fittings & Valves

Pipes

M-PVC Pressure Pipe Class 12 - 6m lengths

Watermarked certified to AS/NZS4765

Model:

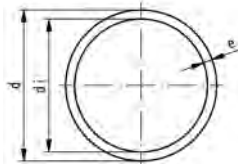
- Colour: RAL 7011 - dark-grey

Pipe length: 6m, with plain ends.



PF 2 09 663 002

DN [mm]	d [mm]	Code	SP	Weight [kg]	
200	225	200 060 744	0	49.510	
250	280	200 060 745	0	75.580	
300	315	200 060 746	0	95.930	
375	400	200 060 747	0	153.480	



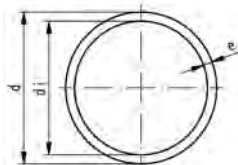
Pipe PVC-U grey Series S10 SDR21 nominal pressure PN10

Model:

- Material: PVC-U, Polyvinylchloride unplasticised DIN 8061
- Colour: RAL 7011 - dark-grey
- Dimension: DIN EN ISO 15493, DIN 8062
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

d [mm]	PN [bar]	Code	Weight [kg/m]	e [mm]	di [mm]	
25	10	161 017 082	0.174	1.5	22.0	
32	10	161 017 083	0.276	1.8	28.4	
40	10	161 017 084	0.350	1.9	36.2	
50	10	161 017 085	0.552	2.4	45.2	
63	10	161 017 086	0.854	3.0	57.0	
75	10	161 017 087	1.220	3.6	67.8	
90	10	161 017 088	1.750	4.3	81.4	
110	10	161 017 089	2.610	5.3	99.4	
125	10	161 017 090	3.340	6.0	113.0	
140	10	161 017 091	4.180	6.7	126.6	
160	10	161 017 092	5.470	7.6	144.7	
180	10	161 017 093	6.880	8.6	162.8	
200	10	161 017 094	8.510	9.6	180.8	
225	10	161 017 095	10.800	10.8	203.4	
250	10	161 017 096	13.200	11.9	226.2	
280	10	161 017 097	16.600	13.4	253.2	
315	6	161 017 098	20.900	15.0	285.0	

PF 2 80 151 003



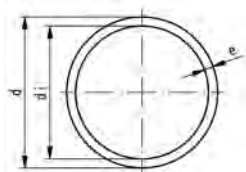
Pipe PVC-U grey Series S6,3 SDR13,6 nominal pressure PN16

Model:

- Material: PVC-U, Polyvinylchloride unplasticised DIN 8061
- Colour: RAL 7011 - dark-grey
- Dimension: DIN EN ISO 15493, DIN 8062
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

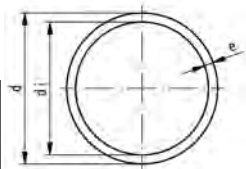
d [mm]	Size (NB) [inch]	PN [bar]	Weight [kg/m]	e [mm]	di [mm]	
12		16	161 017 104	0.055	1.0	10.0
16		16	161 017 105	0.090	1.2	13.6
20		16	161 017 106	0.137	1.5	17.0
25		16	161 017 107	0.212	1.9	21.2
32		16	161 017 108	0.342	2.4	27.2
40		16	161 017 109	0.525	3.0	34.0
50		16	161 017 110	0.809	3.7	42.6
63		16	161 017 111	1.290	4.7	53.6

table continued next page



PF 2 80 151 001

d [mm]	Size (NB) [inch]	PN [bar]		Weight [kg/m]	e [mm]	di [mm]	
75	2 ½	16	161 017 112	1.820	5.6	58.2	
90		16	161 017 113	2.610	6.7	76.6	
110		16	161 017 114	3.856	8.1	93.8	
125		16	161 017 115	4.956	9.2	106.6	
140	5	16	161 017 116	6.215	10.3	119.4	
160		16	161 017 117	8.109	11.8	136.4	

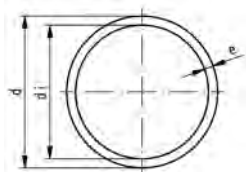


Pipe PVC-U transparent Series S25 SDR51 nominal pressure PN4

Model:

- Material: PVC-U, Polyvinylchloride unplasticised DIN 8061
- Colour: transparent
- Dimension: DIN EN ISO 15493, DIN 8062
- Pipe length: 5m, with plain ends
- The material used fulfills the requirements of DIN 8061 in all aspects except longterm pressure test
- Minimum order quantity: 1 length

d [mm]	PN [bar]	Code	PF	Weight [kg/m]	e [mm]	di [mm]	
63	4	192 017 036	2 80 151 006	0.532	1.8	59.4	
75	4	192 017 037	2 80 151 004	0.642	1.8	71.4	
90	4	192 017 038	2 80 151 004	0.774	1.8	86.4	
110	4	192 017 039	2 80 151 004	1.160	2.2	105.6	
125	4	192 017 040	2 80 151 004	1.480	2.5	120.0	
140	4	192 017 041	2 80 151 004	1.840	2.8	134.4	
160	4	192 017 042	2 80 151 004	2.410	3.2	153.6	
200	4	192 017 044	2 80 151 004	3.700	4.0	192.0	
225	4	192 017 045	2 80 151 004	4.700	4.5	216.0	
250	4	192 017 046	2 80 151 004	5.650	4.9	240.2	
280	4	192 017 047	2 80 151 004	7.600	5.5	269.0	



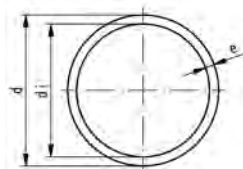
Pipe PVC-U transparent Series S16.7 SDR34.3 nominal pressure PN6

Model:

- Material: PVC-U, Polyvinylchloride unplasticised DIN 8061
- Colour: transparent
- Dimension: DIN EN ISO 15493, DIN 8062
- Pipe length: 5m, with plain ends
- The material used fulfills the requirements of DIN 8061 in all aspects except longterm pressure test
- Minimum order quantity: 1 length

d [mm]	PN [bar]	Code	Weight [kg/m]	e [mm]	di [mm]	
50	6	192 017 060	0.422	1.8	46.4	
160	6	192 017 080	3.440	4.7	150.6	

PF 2 80 151 005



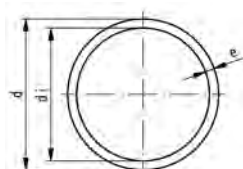
Pipe PVC-U transparent Series S10 SDR21 nominal pressure PN10

Model:

- Material: PVC-U, Polyvinylchloride unplasticised DIN 8061
- Colour: transparent
- Dimension: DIN EN ISO 15493, DIN 8062
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

d [mm]	PN [bar]	Code	Weight [kg/m]	e [mm]	di [mm]
25	10	192 017 082	0.174	1.5	22.0
32	10	192 017 083	0.264	1.8	28.4
40	10	192 017 084	0.366	1.9	36.2
50	10	192 017 085	0.552	2.4	45.2
63	10	192 017 086	0.854	3.0	57.0
75	10	192 017 087	1.220	3.6	67.8
90	10	192 017 088	1.750	4.3	81.4
110	10	192 017 089	2.610	5.3	99.4

PF 2 80 151 006



Pipe PVC-U transparent Series S6.25 SDR13.5 nominal pressure PN16

Model:

- Material: PVC-U, Polyvinylchloride unplasticised DIN 8061
- Colour: transparent
- Dimension: DIN EN ISO 15493, DIN 8062
- Pipe length: 5m, with plain ends
- The material used fulfills the requirements of DIN 8061 in all aspects except longterm pressure test
- Minimum order quantity: 1 length

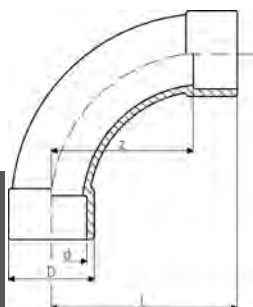
d [mm]	PN [bar]	Code	Weight [kg/m]	e [mm]	di [mm]
12	16	192 017 104	0.055	1.0	10.0
16	16	192 017 105	0.090	1.2	13.6
20	16	192 017 106	0.137	1.5	17.0
25	16	192 017 107	0.212	1.9	21.2
32	16	192 017 108	0.342	2.4	27.2
40	16	192 017 109	0.525	3.0	34.0
50	16	192 017 110	0.809	3.7	42.6
63	16	192 017 111	1.290	4.7	53.6

PF 2 80 151 007

Fittings

Pipe fittings for solvent cement jointing

Bend 90° PVC-U metric

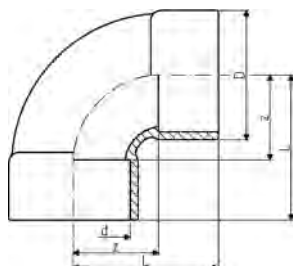


PF 2 30 152 001

d [mm]	PN [bar]	Code	SP	Weight [kg]	z [mm]	D [mm]	L [mm]	
20	16	721 000 106	10	0.029	40	27	56	
25	16	721 000 107	10	0.049	50	33	69	
32	16	721 000 108	10	0.074	64	38	86	
40	16	721 000 109	30	0.121	80	47	106	
50	16	721 000 110	5	0.298	100	61	131	
63	16	721 000 111	5	0.516	126	76	164	
75	16	721 000 112	5	0.798	150	90	194	
90	16	721 000 113	5	1.373	180	108	231	
110	16	721 000 114	5	2.699	220	137	281	
140	16	721 000 116	2	5.204	280	168	356	
160	16	721 000 117	1	8.298	320	192	406	

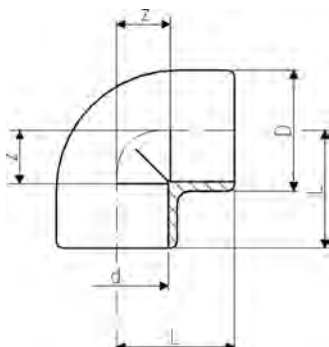
UPVC Metric

Bend 90° short pattern PVC-U metric



PF 2 30 152 002

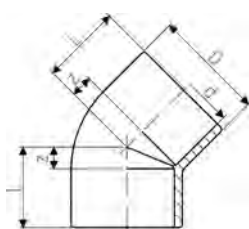
d [mm]	PN [bar]	Code	SP	Weight [kg]	z [mm]	D [mm]	L [mm]	
225	10	721 010 120	1	7.554	168	256	287	
280	10	721 010 122	1	16.987	210	318	357	
315	6	721 010 123	1	21.567	237	356	402	
400	6	721 010 125	1	30.000	300	442	521	



PF 2 30 152 003

Elbow 90° PVC-U metric

d [mm]	d [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	D [mm]	L [mm]	
6		16	721 100 101	10	0.004	4	11	16	
8		16	721 100 102	10	0.004	5	13	17	
10		16	721 100 103	10	0.004	6	14	18	
12		16	721 100 104	10	0.006	7	17	19	
16		16	721 100 105	10	0.007	9	21	23	
20		16	721 100 106	10	0.012	11	25	27	
25		16	721 100 107	10	0.024	14	32	33	
32		16	721 100 108	10	0.043	17	40	39	
40		16	721 100 109	10	0.062	23	47	49	
50		16	721 100 110	10	0.106	26	59	57	
63		16	721 100 111	10	0.205	33	73	71	
75	2 ½	16	721 100 112	5	0.336	40	87	83	
90		16	721 100 113	5	0.576	46	105	97	
110		16	721 100 114	4	1.009	55	128	116	
125		16	721 100 115	1	1.522	63	146	131	
140	5	16	721 100 116	4	1.945	70	162	146	
160		16	721 100 117	2	2.873	80	185	166	
200		10	721 100 119	1	4.446	101	225	207	
225		10	721 100 120	1	5.989	114	252	233	
250		10	721 100 121	1	10.014	131	282	263	

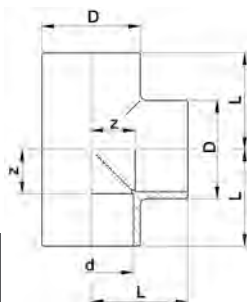


PF 2 30 152 004

Elbow 45° PVC-U metric

d [mm]	d [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	D [mm]	L [mm]	
16		16	721 150 105	10	0.008	5	21	19	
20		16	721 150 106	10	0.011	5	25	21	
25		16	721 150 107	10	0.017	6	31	25	
32		16	721 150 108	10	0.021	8	38	30	
40		16	721 150 109	10	0.048	10	47	36	
50		16	721 150 110	5	0.086	12	59	43	
63		16	721 150 111	5	0.160	14	73	52	
75	2 ½	16	721 150 112	5	0.253	17	87	61	
90		16	721 150 113	4	0.430	20	105	71	
110		16	721 150 114	4	0.750	25	127	86	
125		16	721 150 115	1	1.193	28	146	97	
140	5	16	721 150 116	1	1.570	32	162	108	
160		16	721 150 117	4	2.280	36	185	122	
200		10	721 150 119	2	3.288	43	225	149	
225		10	721 150 120	1	4.191	49	250	168	
250		10	721 150 121	1	7.115	60	282	192	
280		10	721 150 122	1	10.340	66	318	213	
315		6	721 150 123	1	14.292	74	356	239	
400		6	721 150 125	1	25.268	94	442	302	

Tee 90° equal PVC-U metric

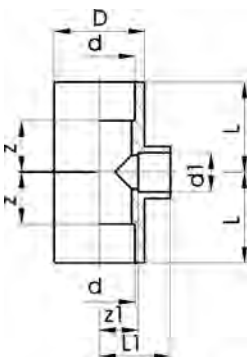


UPVC Metric

PF 2 30 152 005

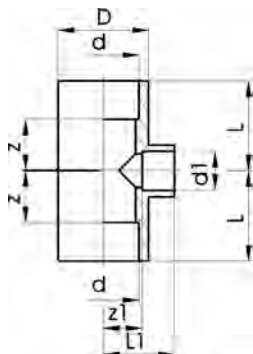
d [mm]	d [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	D [mm]	L [mm]	
6		16	721 200 101	10	0.004	4	11	16	
8		16	721 200 102	10	0.008	5	13	17	
10		16	721 200 103	10	0.008	6	16	18	
12		16	721 200 104	10	0.011	7	19	19	
16		16	721 200 105	10	0.011	9	21	23	
20		16	721 200 106	10	0.019	11	25	27	
25		16	721 200 107	10	0.029	14	31	33	
32		16	721 200 108	10	0.055	17	38	39	
40		16	721 200 109	10	0.100	23	48	49	
50		16	721 200 110	10	0.156	26	58	57	
63		16	721 200 111	10	0.291	33	73	71	
75	2 ½	16	721 200 112	5	0.476	39	87	83	
90		16	721 200 113	4	0.824	46	105	97	
110		16	721 200 114	6	1.411	55	127	116	
125		16	721 200 115	2	2.521	66	151	135	
140	5	16	721 200 116	1	3.410	71	169	147	
160		16	721 200 117	1	4.982	81	193	167	
200		10	721 200 119	1	5.868	101	225	207	
225		10	721 200 120	1	9.268	114	256	233	
250		10	721 200 121	1	14.350	132	282	263	
280		10	721 200 122	1	19.541	152	318	298	
315		6	721 200 123	1	27.254	168	356	332	
400		6	721 200 125	1	35.000	214	442	420	

Tee 90° reducing PVC-U metric



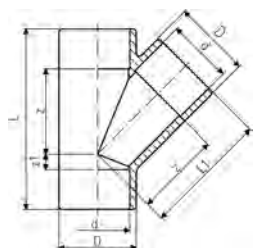
d [mm]	d1 [mm]	PN [bar]	d-d [inch]	Code	SP	Weight [kg]	z [mm]	z1 [mm]	D [mm]	L [mm]	L1 [mm]	
25	20	16		721 200 134	10	0.038	14	14	33	33	30	
32	20	16		721 200 141	10	0.061	17	17	41	39	33	
32	25	16		721 200 138	10	0.063	17	17	41	39	36	
40	20	16		721 200 155	10	0.103	23	23	50	49	39	
40	25	16		721 200 151	10	0.107	23	23	50	49	42	
40	32	16		721 200 147	10	0.109	23	23	50	49	45	
50	20	16		721 200 009	5	0.179	28	28	62	59	44	
50	25	16		721 200 010	5	0.183	28	28	62	59	47	
50	32	16		721 200 164	5	0.189	28	28	62	59	50	
50	40	16		721 200 161	5	0.208	28	28	62	59	54	
63	25	16		721 200 011	10	0.332	35	34	77	73	53	
63	32	16		721 200 178	5	0.336	35	34	77	73	56	
63	40	16		721 200 174	5	0.347	35	34	77	73	60	
63	50	16		721 200 170	5	0.354	35	34	77	73	65	
75	32	16		721 200 181	9	0.535	40	41	92	84	63	
75	40	16		721 200 182	9	0.555	40	41	92	84	67	
75	50	16		721 200 183	8	0.541	40	41	92	84	72	
75	63	16		721 200 184	8	0.570	40	41	92	84	79	
90	32	16		721 200 142	6	0.855	46	55	110	97	77	
90	50	16		721 200 144	6	0.907	46	55	110	97	86	
90	63	16		721 200 145	5	0.931	46	55	110	97	93	
90	75	16		721 200 146	5	0.959	46	55	110	97	99	
110	32	16		721 200 135	3	1.441	56	67	133	117	89	
110	50	16		721 200 136	3	1.471	56	67	133	117	98	
110	63	16		721 200 132	3	1.522	56	65	133	117	103	
110	75	16		721 200 133	3	1.543	56	65	133	117	109	
110	90	16		721 200 137	3	1.634	56	65	133	117	116	
125	50	16		721 200 139	4	1.970	64	75	151	133	106	
125	90	16		721 200 140	4	2.200	64	75	151	133	126	
140	50	16		721 200 148	1	3.235	72	82	172	148	113	
140	75	16	5 - 2 ½	721 200 149	1	3.319	72	78	172	148	122	
140	110	16		721 200 150	1	3.422	72	74	172	148	135	
160	110	16		721 200 152	1	4.305	81	81	192	167	142	
200	110	10		721 200 153	1	8.782	107	131	232	213	192	
200	160	10		721 200 154	1	8.036	107	106	232	213	192	
225	110	10		721 200 156	1	10.619	120	143	257	239	204	
225	160	10		721 200 157	1	9.760	120	119	257	239	205	

table continued next page



PF 2 30 152 006

d [mm]	d1 [mm]	PN [bar]	d-d [inch]	Code	SP	Weight [kg]	z [mm]	z1 [mm]	D [mm]	L [mm]	L1 [mm]	
250	160	10		721 200 159	1	14.520	132	151	282	263	237	
250	200	10		721 200 162	1	12.213	132	131	282	263	237	
280	160	10		721 200 165	1	18.402	120	180	318	266	266	
280	225	10		721 200 167	1	16.145	120	148	318	266	268	
315	160	6		721 200 169	1	22.189	120	197	356	284	283	
315	225	6		721 200 172	1	20.154	120	165	356	284	284	
400	225	6		721 200 176	1	40.000	163	258	442	369	377	
400	315	6		721 200 180	1	35.000	163	213	442	369	377	

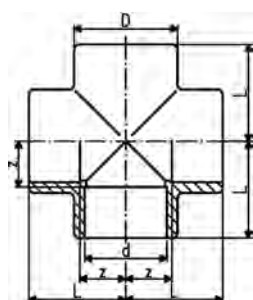


PF 2 30 152 007

Tee 45° PVC-U metric

d [mm]	d [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	z1 [mm]	D [mm]	L [mm]	L1 [mm]	
10		10	721 250 103	100	0.013	18	4	16	46	30	
12		10	721 250 104	100	0.014	21	4	18	49	33	
16		10	721 250 105	100	0.022	25	5	23	58	39	
20		10	721 250 106	10	0.035	30	6	28	68	46	
25		10	721 250 107	10	0.056	36	9	33	83	55	
32		10	721 250 108	10	0.096	45	10	41	99	67	
40		10	721 250 109	10	0.159	56	10	50	118	82	
50		10	721 250 110	10	0.265	66	12	60	140	97	
63		10	721 250 111	5	0.439	85	14	74	175	123	
75	2 ½	6	721 250 112	5	0.816	101	18	91	207	145	
90		6	721 250 113	1	1.275	122	20	107	245	173	
110		6	721 250 114	3	2.579	149	27	134	298	210	
125		6	721 250 115	2	3.616	167	30	147	335	236	
140	5	6	721 250 116	1	5.628	190	34	168	376	266	
160		6	721 250 117	1	7.187	213	41	190	428	300	
200		6	721 250 119	1	12.314	265	48	232	527	372	
225		6	721 250 120	1	15.735	296	54	260	590	416	
250		6	721 250 121	1	20.350	330	60	286	654	462	

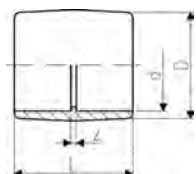
UPVC Metric



PF 2 30 152 008

Cross PVC-U metric

d [mm]	d [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	D [mm]	L [mm]	
10		16	721 300 103	100	0.009	7	16	19	
12		16	721 300 104	100	0.010	8	18	20	
16		16	721 300 105	100	0.020	10	23	24	
20		16	721 300 106	10	0.036	11	29	27	
25		16	721 300 107	10	0.054	14	35	33	
32		16	721 300 108	10	0.092	17	43	39	
40		16	721 300 109	5	0.155	23	52	49	
50		16	721 300 110	5	0.259	28	63	59	
63		16	721 300 111	5	0.482	34	79	72	
75	2 ½	10	721 300 112	3	0.725	40	92	83	
90		10	721 300 113	4	1.221	48	106	97	
110		10	721 300 114	4	2.111	59	128	117	

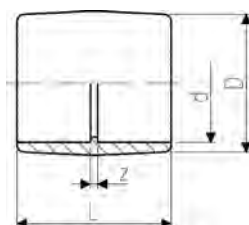
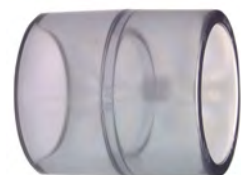


Socket equal PVC-U metric

¹ Socket d355 and d400 fabricated from pipe

	d [mm]	d [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	D [mm]	L [mm]	
	6		16	721 910 101	10	0.004	3	12	27	
	8		16	721 910 102	10	0.005	3	14	27	
	10		16	721 910 103	1	0.004	3	16	27	
	12		16	721 910 104	1	0.004	3	19	27	
	16		16	721 910 105	10	0.006	3	22	31	
	20		16	721 910 106	10	0.011	3	26	35	
	25		16	721 910 107	10	0.015	3	32	41	
	32		16	721 910 108	10	0.026	3	39	47	
	40		16	721 910 109	10	0.045	3	48	55	
	50		16	721 910 110	10	0.064	3	58	65	
	63		16	721 910 111	10	0.118	3	73	79	
	75	2 ½	16	721 910 112	10	0.188	4	87	92	
	90		16	721 910 113	10	0.328	5	105	107	
	110		16	721 910 114	5	0.554	6	128	128	
	125		16	721 910 115	3	0.825	7	142	145	
	140	5	16	721 910 116	2	1.118	7	162	159	
	160		16	721 910 117	2	1.540	8	183	180	
	200		10	721 910 119	1	2.559	9	221	221	
	225		10	721 910 120	2	3.519	10	253	248	
	250		10	721 910 121	1	5.394	16	284	284	
	280		10	721 910 122	1	8.312	16	321	314	
	315		6	721 910 123	1	10.388	16	356	348	
1	355		6	721 910 124	0	10.706	68	377	454	
1	400		6	721 910 125	0	11.326	73	425	505	

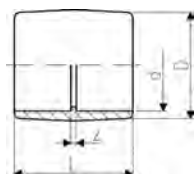
PF 2 30 152 011



Socket equal PVC-U transparent metric

d [mm]	PN [bar]	Code	SP	Weight [kg]	z [mm]	D [mm]	L [mm]	
16	16	752 910 105	10	0.009	3	23	31	
20	16	752 910 106	1	0.012	3	27	35	
25	16	752 910 107	1	0.016	3	32	41	
32	16	752 910 108	1	0.027	3	40	47	
40	16	752 910 109	1	0.061	3	52	55	
50	16	752 910 110	1	0.068	3	60	65	
63	16	752 910 111	5	0.115	3	75	79	

PF 2 30 152 013



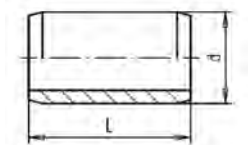
Adaptor socket PVC-U metric Inch/BS

Model:

- With solvent cement sockets metric and BS inch

d [mm]	d [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	D [mm]	L [mm]	
16	¾	16	721 913 105	10	0.010	5	23	35	
20	½	16	721 913 106	10	0.012	5	27	38	
25	¾	16	721 913 107	10	0.020	5	33	45	
32	1	16	721 913 108	10	0.031	5	41	51	
40	1 ¼	16	721 913 109	10	0.054	5	51	60	
50	1 ½	16	721 913 110	10	0.074	4	59	65	
63	2	16	721 913 111	5	0.155	5	75	79	
90	3	16	721 913 113	10	0.340	6	104	108	
110	4	16	721 913 115	5	0.488	4	128	128	

PF 2 30 166 005



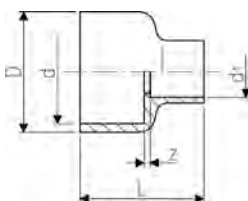
PF 2 30 152 011

Barrel nipple PVC-U metric

Model:

- With solvent cement spigots on both sides
- Overall length $L = 2 \times$ socket length
- For the shortest possible distance between fittings

d [mm]	d [inch]	PN [bar]	Code	Weight [kg]	L [mm]	
16		16	721 900 905	0.002	28	
20		16	721 900 906	0.005	32	
25		16	721 900 907	0.009	38	
32		16	721 900 908	0.015	44	
40		16	721 900 909	0.027	52	
50		16	721 900 910	0.048	62	
63		16	721 900 911	0.092	76	
75	2 1/2	16	721 900 912	0.156	88	
90		16	721 900 913	0.260	102	
110		16	721 900 914	0.455	122	
125		16	721 900 915	0.673	138	
140	5	16	721 900 916	0.932	152	
160		16	721 900 917	1.565	192	
200		10	721 900 919	1.779	212	
225		10	721 900 920	2.566	238	



PF 2 30 152 012

Reducing socket PVC-U metric

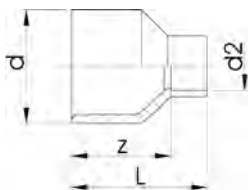
Model:

- Solvent cement socket metric

To be discontinued, replacement 21 91 09

Delivery while stocks last

d [mm]	d1 [mm]	PN [bar]	Code	SP	Weight [kg]	z [mm]	D [mm]	L [mm]	
25	20	16	721 910 137	10	0.014	3	32	38	
40	32	16	721 910 146	10	0.037	3	49	51	
50	40	16	721 910 152	10	0.059	8	59	65	



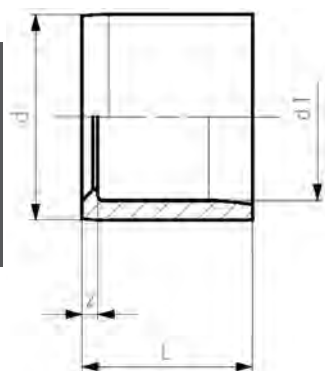
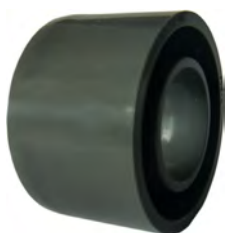
PF 2 30 152 010

Reducing bush long PVC-U metric

Model:

- With solvent cement spigot and socket metric

d [mm]	d2 [mm]	PN [bar]	Code	SP	Weight [kg]	z [mm]	L [mm]	
8	6	16	721 910 323	10	0.003	15	27	
10	6	16	721 910 326	10	0.003	15	27	
10	8	16	721 910 325	10	0.003	15	27	
20	16	16	721 910 334	10	0.009	21	35	
25	20	16	721 910 337	10	0.014	25	41	
32	25	16	721 910 341	10	0.024	30	49	
40	32	16	721 910 346	10	0.044	36	58	
50	40	16	721 910 352	10	0.074	44	70	
63	50	16	721 910 358	5	0.148	54	85	
75	63	16	721 910 364	5	0.211	62	100	
90	75	16	721 910 370	8	0.335	74	118	
140	110	16	721 910 385	2	0.808	111	172	



Reducing bush short PVC-U metric

Model:

- With solvent cement spigot and socket metric

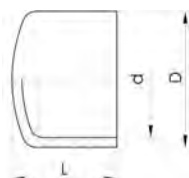
	d [mm]	d1 [mm]	PN [bar]	Code	SP	Weight [kg]	z [mm]	L [mm]	
*	12	8	16	721 900 329	1	0.002	2	14	
*	16	12	16	721 900 331	10	0.002	2	14	
*	20	16	16	721 900 334	10	0.002	2	16	
*	25	20	16	721 900 337	10	0.004	3	19	
*	32	20	16	721 900 342	10	0.014	6	22	
*	32	25	16	721 900 341	10	0.009	3	22	
	40	20	16	721 900 348	10	0.021	10	26	
	40	25	16	721 900 347	10	0.021	7	26	
*	40	32	16	721 900 346	10	0.016	4	26	
	50	20	16	721 900 355	10	0.037	15	31	
	50	25	16	721 900 354	10	0.034	12	31	
	50	32	16	721 900 353	10	0.036	9	31	
*	50	40	16	721 900 352	10	0.030	5	31	
	63	32	16	721 900 360	10	0.064	16	38	
	63	40	16	721 900 359	10	0.067	12	38	
*	63	50	16	721 900 358	10	0.058	7	38	
	75	50	16	721 900 365	10	0.109	13	44	
*	75	63	16	721 900 364	10	0.078	6	44	
	90	50	16	721 900 372	10	0.181	20	51	
	90	63	16	721 900 371	10	0.183	13	51	
*	90	75	16	721 900 370	10	0.135	7	51	
	110	50	16	721 900 379	5	0.316	30	61	
	110	63	16	721 900 378	5	0.308	23	61	
	110	75	16	721 900 377	20	0.295	17	61	
*	110	90	16	721 900 376	5	0.259	10	61	
	125	90	16	721 900 381	5	0.465	18	69	
*	125	110	16	721 900 380	5	0.267	8	69	
	140	90	16	721 900 386	5	0.562	25	76	
*	140	110	16	721 900 385	5	0.605	15	76	
*	140	125	16	721 900 384	5	0.331	7	76	
	160	90	16	721 900 391	5	0.751	35	86	
	160	110	16	721 900 390	5	0.883	25	86	
*	160	140	16	721 900 388	5	0.551	10	86	
	200	110	10	721 900 393	3	1.985	45	108	
	200	125	10	721 900 325	3	2.024	37	108	
	200	140	10	721 900 394	3	1.928	29	108	
	200	160	10	721 900 392	2	1.085	20	108	
	225	110	10	721 900 397	4	2.544	57	120	
	225	125	10	721 900 399	4	2.563	49	120	
	225	140	10	721 900 398	4	2.609	41	120	
	225	160	10	721 900 396	2	2.199	31	119	
*	225	200	10	721 900 181	9	1.360	13	119	
	250	125	10	721 900 326	4	3.150	11	133	
	250	140	10	721 900 300	4	3.200	54	133	
	250	160	10	721 900 301	4	3.390	44	133	
*	250	200	10	721 900 302	4	3.198	24	133	
*	250	225	10	721 900 303	4	1.686	11	133	
	280	140	10	721 900 307	1	4.157	69	148	
	280	160	10	721 900 308	1	4.170	60	148	
	280	200	10	721 900 304	1	4.577	39	148	
*	280	225	10	721 900 305	1	4.409	27	146	
*	280	250	10	721 900 306	1	2.515	14	148	
	315	160	6	721 900 313	1	5.188	77	166	
	315	200	6	721 900 309	1	5.480	57	166	
	315	225	6	721 900 310	1	6.035	44	166	
	315	250	6	721 900 311	1	6.481	32	166	
	315	280	6	721 900 312	1	4.055	28	167	
	355	315	6	721 900 315	1	5.792	23	206	
	400	250	6	721 900 319	1	11.528	60	206	
	400	280	6	721 900 320	1	11.366	60	206	
	400	315	6	721 900 321	1	13.006	42	206	
*	400	355	6	721 900 322	1	7.524	22	206	

PF 2 30 152 009

Reducing Bushes, short PVC-U (Metric to Imperial)

PF 2 09 660 001

DN [mm]	DN [inch]	Code	SP	Weight [kg]	
225	6	200 060 299	0	2.200	
280	4	200 060 309	0	6.953	
280	6	200 060 308	0	0.278	



PF 2 30 152 014

Cap PVC-U metric

d [mm]	d [inch]	PN [bar]	Code	SP	Weight [kg]	D [mm]	L [mm]	
12		16	721 960 104	10	0.004	19	15	
16		16	721 960 105	10	0.005	23	21	
20		16	721 960 106	10	0.008	27	24	
25		16	721 960 107	10	0.013	33	28	
32		16	721 960 108	10	0.020	40	32	
40		16	721 960 109	10	0.029	47	38	
50		16	721 960 110	10	0.051	59	45	
63		16	721 960 111	5	0.095	74	56	
75	2 ½	16	721 960 112	5	0.152	87	65	
90		16	721 960 113	5	0.269	105	77	
110		16	721 960 114	12	0.457	128	94	
140	5	10	721 960 116	10	1.036	164	92	
160		10	721 960 117	2	1.534	188	130	
200		10	721 960 119	3	2.614	230	170	
225		10	721 960 120	2	3.320	257	185	
280		10	721 960 122	1	6.200	318	230	
315		6	721 960 123	1	8.500	356	255	

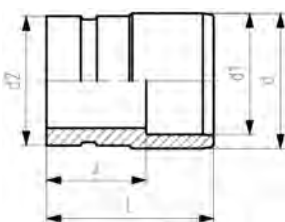
UPVC Metric

Adaptor fittings

Adaptor fitting PVC-U metric - victaulic

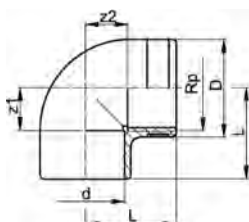
Model:

- With solvent cement spigot and socket metric
- For metal couplings (type Victaulic)



PF 2 30 153 008

d [mm]	d1 [mm]	d2 [inch]	PN [bar]	Code	SP	Weight [kg]	L [mm]	z [mm]	
50	40	1 ½	10	721 910 090	50	0.150	71	45	
63	50	2	10	721 910 091	50	0.200	78	47	
75	63	2 ½	10	721 910 092	50	0.250	84	46	



PF 2 30 153 001

Elbow 90° PVC-U metric Rp

Model:

- With solvent cement socket metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

as long as stocks last

d [mm]	Rp [inch]	PN [bar]	Code	SP	Weight [kg]	z1 [mm]	z2 [mm]	D [mm]	L [mm]	
12	1/4	16	721 100 204	10	0.010	7	7	20	19	
16	3/8	16	721 100 205	10	0.015	9	9	25	23	
20	1/2	16	721 100 206	10	0.023	13	11	30	27	
25	3/4	16	721 100 207	10	0.035	16	15	35	33	
32	1	16	721 100 208	10	0.060	19	19	45	39	
40	1 1/4	16	721 100 209	10	0.122	23	27	55	50	
50	1 1/2	16	721 100 210	5	0.187	27	36	62	58	
63	2	16	721 100 211	10	0.324	33	46	75	73	



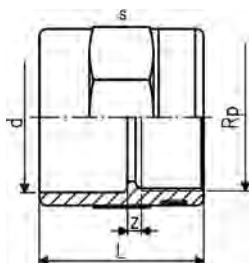
PF 2 30 153 002

Tee 90° PVC-U metric Rp

Model:

- With solvent cement socket metric, branch with parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d [mm]	Rp [inch]	PN [bar]	Code	SP	Weight [kg]	z1 [mm]	z2 [mm]	D [mm]	D1 [mm]	L [mm]	
12	1/4	16	721 200 204	10	0.015	7	7	17	20	19	
16	3/8	16	721 200 205	10	0.027	9	9	21	25	23	
20	1/2	16	721 200 206	10	0.029	11	13	26	30	29	
25	3/4	16	721 200 207	10	0.043	14	15	32	35	33	
32	1	16	721 200 208	10	0.080	17	19	40	45	39	
40	1 1/4	16	721 200 209	10	0.134	23	26	47	55	49	
50	1 1/2	16	721 200 210	5	0.212	27	36	59	59	59	
63	2	16	721 200 211	5	0.379	33	46	74	75	71	



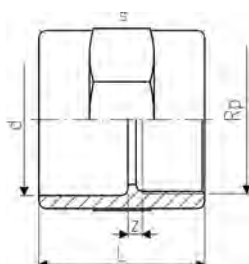
PF 2 30 153 003

Adaptor socket PVC-U metric Rp

Model:

- With solvent cement socket metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d [mm]	Rp [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	L [mm]	s [mm]	
12	1/4	16	721 910 204	10	0.010	4	27	22	
16	3/8	16	721 910 205	10	0.016	5	31	27	
20	1/2	16	721 910 206	10	0.025	5	36	32	
25	3/4	16	721 910 207	10	0.032	5	40	36	
32	1	16	721 910 208	10	0.057	5	45	46	
40	1 1/4	16	721 910 209	10	0.087	5	51	55	
50	1 1/2	16	721 910 210	10	0.126	7	59	65	
63	2	16	721 910 211	5	0.206	7	69	80	



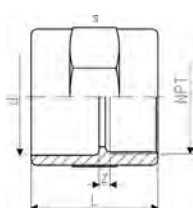
PF 2 30 166 008

Adaptor socket PVC-U metric Rp

Model:

- With solvent cement socket metric and parallel female thread Rp
- Connection to plastic threads only
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d [mm]	Rp [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	L [mm]	s [mm]	
75	2 ½	10	721 916 012	10	0.220	7	82	90	
90	3	10	721 916 013	5	0.365	9	94	110	
110	4	10	721 916 014	5	0.536	9	110	130	



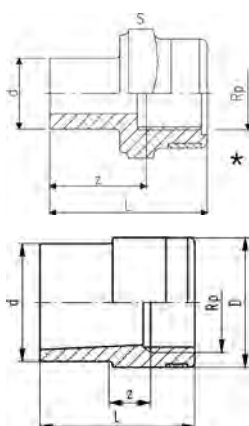
PF 2 30 153 004

Adaptor socket PVC-U metric NPT

Model:

- With solvent cement socket metric and NPT (ASTM) taper female thread
- Connection to plastic threads only
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d [mm]	NPT [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	L [mm]	s [mm]	
20	½	10	721 914 206	10	0.021	5	35	32	
25	¾	10	721 914 207	10	0.028	6	40	36	
32	1	10	721 914 208	10	0.049	6	45	46	
40	1 ¼	10	721 914 209	10	0.076	6	51	55	
50	1 ½	10	721 914 210	10	0.110	10	59	65	
63	2	10	721 914 211	5	0.175	10	69	80	



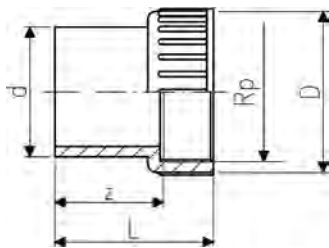
PF 2 30 153 005

Reducing bush PVC-U metric Rp

Model:

- With solvent cement spigot metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

	d [mm]	Rp [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	D [mm]	L [mm]	s [mm]	
*	12	¼	16	721 910 404	10	0.008	0	20	27	22	
	20	¾	16	721 910 434	10	0.014	7	25	35		
	25	½	16	721 910 437	10	0.021	7	30	41		
	32	¾	16	721 910 441	10	0.032	15	35	48		
	40	1	16	721 910 446	10	0.058	20	45	56		
	50	1 ¼	16	721 910 452	10	0.097	20	55	66		
	63	1 ½	16	721 910 458	5	0.151	10	62	77		



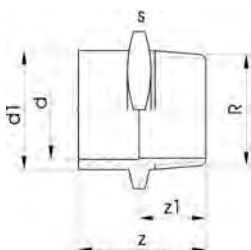
PF 2 30 153 008

Adaptor bush equal PVC-U metric Rp

Model:

- With solvent cement spigot metric and parallel female thread Rp
- Connection to plastic threads only
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d [mm]	Rp [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	D [mm]	L [mm]	
20	½	10	721 900 406	10	0.012	22	28	37	
25	¾	10	721 900 407	10	0.018	25	34	41	
32	1	10	721 900 408	10	0.035	29	42	48	
40	1 ¼	10	721 900 409	10	0.063	34	52	56	
50	1 ½	10	721 900 410	10	0.097	40	62	61	
63	2	10	721 900 411	5	0.170	49	77	74	



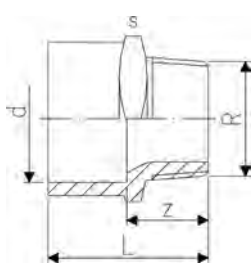
PF 2 30 153 009

Adaptor socket nipple PVC-U metric R

Model:

- With solvent cement spigot/socket reducing metric and taper male thread R
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d [mm]	d1 [mm]	R [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	z1 [mm]	s [mm]	
12	16	⅜	16	721 910 555	10	0.010	35	23	27	
16	20	½	16	721 910 556	10	0.016	42	28	32	
20	25	¾	16	721 910 557	10	0.023	47	31	36	
25	32	1	16	721 910 558	10	0.040	54	35	46	
32	40	1 ¼	16	721 910 559	10	0.061	60	38	55	
40	50	1 ½	16	721 910 560	10	0.094	66	40	65	
50	63	2	16	721 910 561	5	0.164	78	47	80	



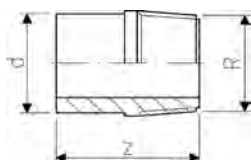
PF 2 30 153 008

Adaptor bush equal PVC-U metric R

Model:

- With solvent cement socket metric and taper male thread R
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d [inch]	R [inch]	d [mm]	PN [bar]	Code	SP	Weight [kg]	z [mm]	L [mm]	s [mm]	
⅜	⅜	16	16	721 910 705	10	0.011	20	34	27	
½	½	20	16	721 910 706	10	0.018	24	40	32	
¾	¾	25	16	721 910 707	10	0.025	25	44	36	
1	1	32	16	721 910 708	10	0.039	28	50	46	
1 ¼	1 ¼	40	16	721 910 709	10	0.061	31	57	55	
1 ½	1 ½	50	16	721 910 710	10	0.092	32	63	65	
2	2	63	16	721 910 711	5	0.161	38	76	80	
2 ½	2 ½	75	10	721 910 712	5	0.227	42	86	90	
3	3	90	10	721 910 713	5	0.389	46	97	110	
4	4	110	10	721 910 714	5	0.572	53	114	130	



PF 2 30 153 007

Adaptor nipple PVC-U metric R

Model:

- With solvent cement spigot metric and taper male thread R
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d [mm]	R [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	
16	3/8	10	721 913 505	10	0.006	31	
20	1/2	10	721 913 506	10	0.010	35	
25	3/4	10	721 913 507	10	0.017	40	
32	1	10	721 913 508	10	0.026	46	

Adaptor socket brass/PVC-U metric R

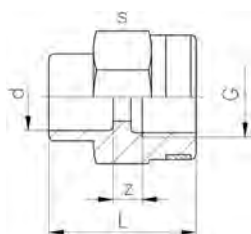
Model:

- Brass with taper male thread R and PVC-U solvent cement socket insert, metric
- Install with low mechanical stress and avoid large cyclic temperature changes

d [mm]	R [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	L [mm]	s [mm]	
40	1 1/4	16	720 910 709	1	0.437	36	64	58	
50	1 1/2	16	720 910 710	1	0.671	38	72	70	
63	2	16	720 910 711	1	1.035	43	84	85	

PF 2 30 153 024

UPVC Metric



PF 2 30 153 010

Manometer adaptor sockets PVC-U metric G

Model:

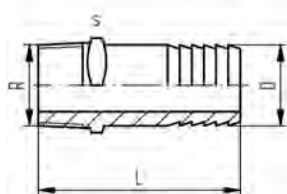
- With solvent cement socket metric and female thread G
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

d [mm]	G [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	L [mm]	s [mm]	
12	1/4	16	721 916 204	10	0.010	4	27	22	
16	1/2	16	721 916 206	10	0.026	7	36	32	

Hose connector PVC-U R

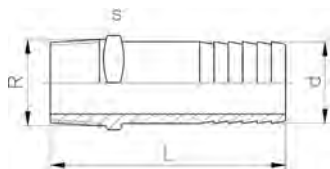
Model:

- With taper male thread R
- With parallel hose connector
- Do not use thread sealing pastes that are harmful to PVC-U



PF 2 30 166 026

R [inch]	PN [bar]	Code	SP	Weight [kg]	D [mm]	L [mm]	s [mm]	
1/4	10	721 960 704	10	0.003	12	59	14	
3/8	10	721 960 705	10	0.006	16	67	19	
1/2	10	721 960 706	10	0.019	20	86	22	
3/4	10	721 960 707	10	0.026	25	92	27	
1	10	721 960 708	5	0.048	30	103	36	
1 1/4	10	721 960 709	5	0.079	40	115	46	



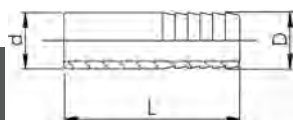
Hose connector PVC-U R reduced

Model:

- With taper male thread R
- With parallel hose connector
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U

PF 2 30 165 013

R [inch]	Code	SP	Weight [kg]	s [mm]	d [mm]	L [mm]	
½	721 961 706	10	0.012	22	14	70	
¾	721 961 707	10	0.021	27	20	80	
1	721 961 708	5	0.042	36	27	90	



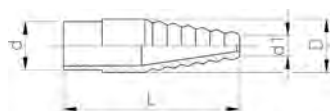
Hose connector PVC-U metric

Model:

- With solvent cement spigot metric and parallel hose connection

PF 2 30 152 016

d [mm]	PN [bar]	Code	SP	Weight [kg]	D [mm]	L [mm]	
10	16	721 960 403	10	0.002	8	47	
12	16	721 960 404	10	0.003	12	51	
16	16	721 960 405	10	0.008	16	57	
20	16	721 960 406	10	0.016	20	73	
25	16	721 960 407	10	0.021	25	79	
32	16	721 960 408	10	0.035	30	89	
32	16	721960508	10	0.035	32	89	
40	16	721 960 409	5	0.060	40	100	
50	16	721 960 410	5	0.112	50	105	
63	16	721 960 411	5	0.180	60	120	



Hose connector PVC-U metric

Model:

- With solvent cement spigot metric and tapered hose connection

PF 2 30 152 015

d [mm]	PN [bar]	Code	SP	Weight [kg]	d1 [mm]	D [mm]	L [mm]	
10	16	721 960 303	10	0.004	6	12	51	
12	16	721 960 304	10	0.004	6	12	51	
16	16	721 960 305	10	0.007	8	16	57	
20	16	721 960 306	10	0.016	11	22	73	

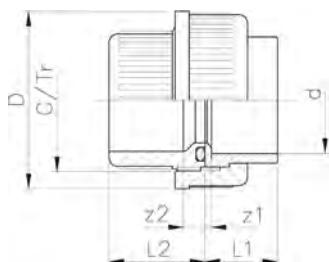
Unions

Union for solvent cement jointing PVC-U metric

Model:

- Union End: solvent socket metric
- Union Bush: Solvent socket metric
- Gasket: O-ring EPDM code no. 748 410 004-016; d90 748 410 248
- Jointing face: With O-ring groove

Stainless Steel, Malleable Iron
and Brass available on request



d [mm]	d [inch]	PN [bar]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
10		16	721 510 103	10	0.021	721 510 128	10	0.020
12		16	721 510 104	10	0.020	721 510 129	10	0.019
16		16	721 510 105	10	0.025	721 510 130	10	0.025
20		16	721 510 106	10	0.041	721 510 131	10	0.042
25		16	721 510 107	10	0.058	721 510 132	10	0.058
32		16	721 510 108	10	0.083	721 510 133	10	0.084
40		16	721 510 109	10	0.149	721 510 134	10	0.152
50		16	721 510 110	5	0.203	721 510 135	2	0.207
63		16	721 510 111	10	0.356	721 510 136	10	0.361
75	2 1/2	10	721 510 112	2	0.614	721 510 137	2	0.621
90		10	721 510 313	2	0.920	721 510 338	2	0.929
110		10	721 510 114	1	1.434	721 510 139	1	1.492

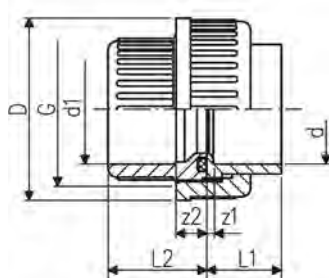
d [mm]	z1 [mm]	z2 [mm]	D [mm]	L1 [mm]	L2 [mm]	G/Tr [inch]
10	3	10	31	15	22	5/8
12	3	10	31	15	22	5/8
16	3	10	35	17	24	3/4
20	3	10	43	19	26	1
25	3	10	51	22	29	1 1/4
32	3	10	58	25	33	1 1/2
40	3	12	72	29	39	2
50	3	14	83	34	46	2 1/4
63	3	18	100	41	58	2 3/4
75	3	18	135	47	62	Tr108x5
90	5	18	158	56	69	Tr128x5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

PF 2 30 153 011

Adaptor union PVC-U metric Inch BS

Model:

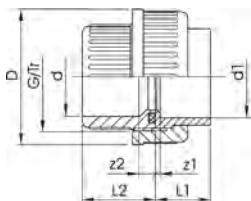
- Union End: Solvent cement socket metric
- Union Bush: Solvent cement socket BS inch
- Gasket: O-ring EPDM code no. 748 410 005-011
- Gasket: O-ring FPM code no. 749 410 005-011 (to be ordered separately)



PN [bar]	d [mm]	d1 [inch]	Code	SP	Weight [kg]	G [inch]	z1 [mm]	z2 [mm]	D [mm]	L1 [mm]	L2 [mm]
15	16	3/8	721 513 105	10	0.025	3/4	3	8	35	17	24
15	20	1/2	721 513 106	10	0.040	1	3	9	43	19	26
15	25	3/4	721 513 107	10	0.065	1 1/4	3	9	51	22	29
15	32	1	721 513 108	10	0.090	1 1/2	3	9	58	25	33
15	40	1 1/4	721 513 109	10	0.155	2	3	10	72	29	39
15	50	1 1/2	721 513 110	5	0.200	2 1/4	3	10	83	34	46
15	63	2	721 513 111	10	0.341	2 3/4	3	10	100	41	58

PF 2 30 166 020

Stainless Steel, Malleable Iron and Brass Unions are available on request.



PF 2 30 166 035

Union for solvent cement jointing PVC-U metric/ASTM

Model:

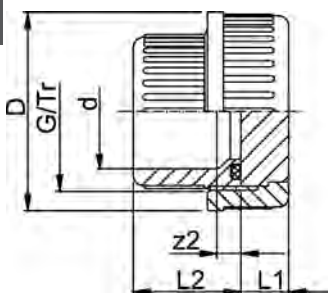
- Union End: Solvent cement socket ASTM
- Union Bush: Solvent socket metric
- Gasket: O-ring EPDM code no. 748 410 005-011
- Gasket: O-ring FPM code no. 749 410 005-011 (to be ordered separately)

d [mm]	d1 [inch]	PN [bar]	Code	SP	Weight [kg]	G [inch]	z1 [mm]	z2 [mm]	D [mm]	L1 [mm]	L2 [mm]	
16	3/8	16	721 514 105	10	0.022	3/4	3	10	35	22	24	
20	1/2	16	721 514 106	10	0.042	1	3	10	43	25	26	
25	3/4	16	721 514 107	10	0.065	1 1/4	3	10	51	28	29	
32	1	16	721 514 108	10	0.103	1 1/2	3	10	58	32	33	
40	1 1/4	16	721 514 109	10	0.174	2	3	12	72	35	39	
50	1 1/2	16	721 514 110	5	0.239	2 1/4	3	14	83	38	46	
63	2	16	721 514 111	10	0.356	2 3/4	3	18	100	41	58	

Union with union end blank PVC-U metric

Model:

- Union Bush: Solvent socket metric
- Jointing face: With O-ring groove



PF 2 30 153 011

d [mm]	PN [bar]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
10	16	721 510 003	10	0.020	721 510 028	10	0.020	
12	16	721 510 004	10	0.020	721 510 029	10	0.020	
16	16	721 510 005	10	0.026	721 510 030	10	0.026	
20	16	721 510 006	10	0.041	721 510 031	10	0.041	
25	16	721 510 007	10	0.068	721 510 032	10	0.068	
32	16	721 510 008	10	0.095	721 510 033	10	0.095	
40	16	721 510 009	10	0.159	721 510 034	10	0.159	
50	16	721 510 010	5	0.227	721 510 035	5	0.227	
63	16	721 510 011	10	0.392	721 510 036	10	0.405	
75	10	721 510 012	2	0.679	721 510 037	2	0.693	
90	10	721 510 213	2	1.022	721 510 238	2	1.022	
110	10	721 510 014	1	1.556	721 510 039	1	1.573	

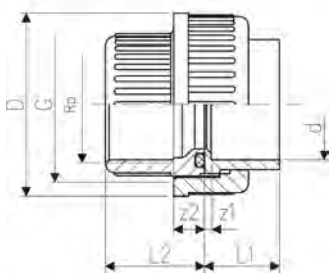
d [mm]	z2 [mm]	L2 [mm]	D [mm]	L1 [mm]	G/Tr [inch]	
10	9	22	31	10	5/8	
12	9	22	31	15	5/8	
16	10	24	35	10	3/4	
20	10	26	43	11	1	
25	10	29	51	11	1 1/4	
32	10	33	58	12	1 1/2	
40	12	39	72	13	2	
50	14	46	83	16	2 1/4	
63	18	58	100	18	2 3/4	
75	18	62	135	22	Tr108x5	
90	18	69	158	24	Tr128x5	
110	11	72	188	26	Tr154x6	



Adaptor union PVC-U metric Rp

Model:

- Union End: Solvent cement socket metric
- Union Bush: Parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 004-011
- Gasket: O-ring FPM code no. 749 410 004-011 (to be ordered separately)
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U



PF 2 30 153 012

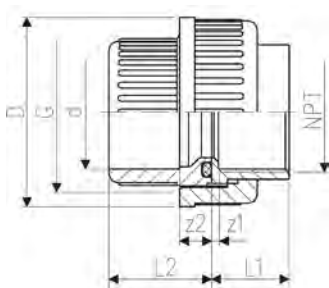
d [mm]	Rp [inch]	PN [bar]	EPDM Code	SP	Weight [kg]	G [inch]	z1 [mm]	z2 [mm]	D [mm]	L1 [mm]	L2 [mm]	
12	1/4	10	721 510 204	10	0.019	5/8	3	12	31	15	22	
16	3/8	10	721 510 205	10	0.020	3/4	3	13	35	17	24	
20	1/2	10	721 510 206	10	0.040	1	3	13	43	19	26	
25	3/4	10	721 510 207	10	0.057	1 1/4	3	14	51	22	29	
32	1	10	721 510 208	10	0.084	1 1/2	3	15	58	25	33	
40	1 1/4	10	721 510 209	10	0.147	2	3	19	72	29	39	
50	1 1/2	10	721 510 210	2	0.218	2 1/4	3	26	83	34	46	
63	2	10	721 510 211	2	0.383	2 3/4	3	33	100	41	58	



Adaptor union PVC-U metric NPT

Model:

- Union End: Taper female thread NPT (ASTM)
- Union Bush: Solvent socket metric
- Gasket: O-ring EPDM code no. 748 410 005-011
- Gasket: O-ring FPM code no. 749 410 005-011 (to be ordered separately)
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U



PF 2 30 166 035

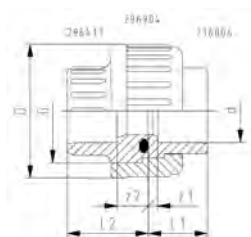
d [mm]	NPT [inch]	PN [bar]	EPDM Code	SP	Weight [kg]	G [inch]	z1 [mm]	z2 [mm]	D [mm]	L1 [mm]	L2 [mm]	
16	3/8	10	721 514 205	10	0.026	3/4	4	10	35	17	24	
20	1/2	10	721 514 206	10	0.042	1	2	10	43	19	26	
25	3/4	10	721 514 207	10	0.068	1 1/4	4	10	51	22	29	
32	1	10	721 514 208	10	0.093	1 1/2	4	10	58	25	33	
40	1 1/4	10	721 514 209	2	0.150	2	6	12	72	29	39	
50	1 1/2	10	721 514 210	2	0.228	2 1/4	11	14	83	34	46	
63	2	10	721 514 211	2	0.387	2 3/4	17	18	100	41	58	



Thread union PVC-U Rp Rp

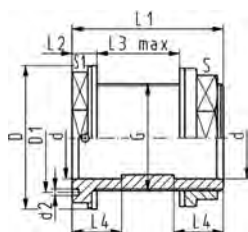
Model:

- Union nut: PVC-U
- Union Bush: Parallel female thread Rp
- Union End: Parallel female thread Rp
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U
- Gasket: O-ring EPDM code no. 748 410 004-011
- Gasket: O-ring FPM code no. 749 410 004-011 (to be ordered separately)



PF 2 30 166 017

Rp [inch]	PN [bar]	Code	SP	Weight [kg]	G [inch]	z1 [mm]	z2 [mm]	D [mm]	L1 [mm]	L2 [mm]	
1/4	10	721 510 604	10	0.019	5/8	3	12	31	22	15	
3/8	10	721 510 605	10	0.027	3/4	3	13	35	24	17	
1/2	10	721 510 606	10	0.042	1	3	13	43	26	19	
3/4	10	721 510 607	10	0.065	1 1/4	3	14	51	29	22	
1	10	721 510 608	10	0.093	1 1/2	3	15	58	32	25	
1 1/4	10	721 510 609	10	0.160	2	3	19	72	38	29	
1 1/2	10	721 510 610	2	0.220	2 1/4	3	26	83	45	34	
2	10	721 510 611	2	0.415	2 3/4	3	33	100	56	41	



Tank adaptor for fix position stop Compact PVC-U metric

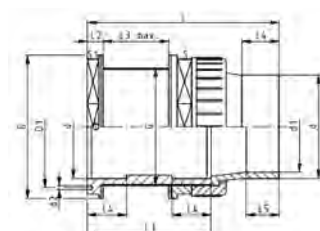
Model:

- End connection: solvent cement socket, metric
- Gasket: flat gasket EPDM
- Washer: PP
- Run-out holes: Two holes in octagonal head
- FPM flat gasket available for tank adaptor type 050

d [mm]	PN [bar]	EPDM Code	SP	Weight [kg]
16	16	161 050 445	75	0.048
20	16	161 050 446	50	0.066
25	16	161 050 447	70	0.170
32	16	161 050 448	50	0.144
40	16	161 050 449	30	0.238
50	16	161 050 450	20	0.260
63	16	161 050 451	15	0.398

d [mm]	L3 max [mm]	Diameter of bore in tank side [mm]	D1 [mm]	S [mm]	D [mm]	L2 [mm]	S1 [mm]	L4 [mm]	L1 [mm]	d2 [mm]	G [inch]
16	28	28	29	32	44	11	40	14	58	5	¾
20	28	35	35	40	54	12	50	16	61	5	1
25	28	43	42	50	60	13	55	19	65	5	1 ¼
32	28	49	49	56	69	13	65	22	67	5	1 ½
40	29	61	59	69	84	13	80	26	72	5	2
50	30	67	70	76	92	15	85	31	76	5	2 ¼
63	35	83	82	95	108	15	100	38	84	5	2 ¾

PF 2 30 162 019



Tank adaptor for fix position stop PVC-U, Union end with spigot / reducing socket metric

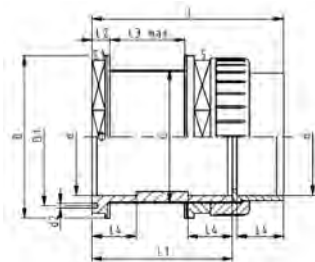
Model:

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

d [mm]	d1 [mm]	PN [bar]	EPDM Code	SP	Weight [kg]
16	12	16	161 050 345	1	0.068
20	16	16	161 050 346	1	0.102
25	20	16	161 050 347	1	0.157
32	25	16	161 050 348	1	0.220
40	32	16	161 050 349	1	0.353
50	40	16	161 050 350	1	0.438
63	50	16	161 050 351	1	0.680

d [mm]	L [mm]	D [mm]	L1 [mm]	L5 [mm]	L4 [mm]	S1 [mm]	L2 [mm]	S [mm]	D1 [mm]	Diameter of bore in tank side [mm]	L3 max [mm]	G [inch]	d2 [mm]
16	96	44	58	12	14	40	11	32	29	28	19	¾	5
20	104	54	61	14	16	50	12	40	35	35	17	1	5
25	112	60	65	16	19	55	13	50	42	43	18	1 ¼	5
32	119	69	67	19	22	65	13	56	49	49	19	1 ½	5
40	132	84	72	22	26	80	13	69	59	61	16	2	5
50	145	92	76	26	31	85	15	76	70	67	16	2 ¼	5
63	163	108	84	31	38	100	15	95	82	83	19	2 ¾	5

PF 2 30 162 019



Tank adaptor for fix position stop PVC-U, Union end with socket metric

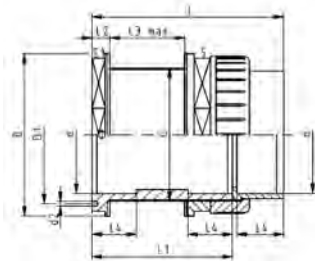
Model:

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

d [mm]	PN [bar]	Code	SP	Weight [kg]
16	16	161 050 245	1	0.064
20	16	161 050 246	1	0.070
25	16	161 050 247	1	0.100
32	16	161 050 248	1	0.196
40	16	161 050 249	1	0.328
50	16	161 050 250	1	0.395
63	16	161 050 251	1	0.530

d [mm]	L [mm]	L2 [mm]	L1 [mm]	D [mm]	L3 max [mm]	Diameter of bore in tank side [mm]	S1 [mm]	L4 [mm]	d2 [mm]	D1 [mm]	S [mm]	G [inch]
16	77	11	58	44	19	28	40	14	5	29	32	¾
20	83	12	61	54	17	35	50	16	5	35	40	1
25	90	13	65	60	18	43	55	19	5	42	50	1 ¼
32	95	13	67	69	19	49	65	22	5	49	56	1 ½
40	104	13	72	84	16	61	80	26	5	59	69	2
50	113	15	76	92	16	67	85	31	5	70	76	2 ¼
63	128	15	84	108	19	83	100	38	5	82	95	2 ¾

PF 2 30 162 019



Tank adaptor for fix position stop PVC-U with O-Ring gasket

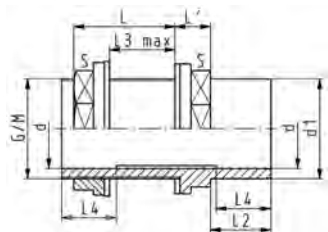
Model:

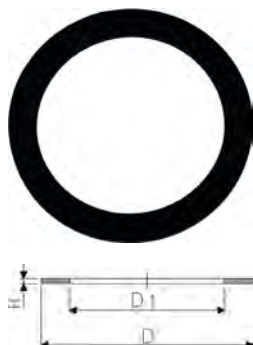
- Gaskets: O-Ring EPDM, flat gasket EPDM
- Washer: PP
- Run-out holes: Two holes in octagonal head
- For round tanks

d [mm]	PN [bar]	Code	SP	Weight [kg]
16	16	161 050 385	1	0.040
20	16	161 050 386	1	0.070
25	16	161 050 387	1	0.160
32	16	161 050 388	1	0.200
40	16	161 050 389	1	0.240
50	16	161 050 390	1	0.400
63	16	161 050 391	1	0.530

d [mm]	G [inch]	d2 [mm]	D1 [mm]	S [mm]	L3 max [mm]	Diameter of bore in tank side [mm]	S1 [mm]	L4 [mm]	L [mm]	L2 [mm]	L1 [mm]	D [mm]
16	¾	5	29	32	19	28	40	14	77	11	58	44
20	1	5	35	40	17	35	50	16	83	12	61	54
25	1 ¼	5	42	50	18	43	55	19	90	13	65	60
32	1 ½	5	49	56	19	49	65	22	95	13	67	69
40	2	5	59	69	16	61	80	26	104	13	72	84
50	2 ¼	5	70	76	16	67	85	31	113	15	76	92
63	2 ¾	5	82	95	19	83	100	38	128	15	84	108

PF 2 30 162 019





Flat Gasket union For tank adaptor type 050

Model:

- Hardness approx. 65° Shore
- Dimension size "inch" correspond with the thread dimension "G" of the tank adaptor

Size [inch]	EPDM Code	PF	Weight [kg]	FPM Code	PF	Weight [kg]
3/4	748 400 005	2 30 162 002	0.002	749 400 005	2 30 162 005	0.001
1	748 400 006	2 30 162 002	0.001	749 400 006	2 30 162 005	0.003
1 1/4	748 400 007	2 30 162 002	0.004	749 400 007	2 30 162 005	0.004
1 1/2	748 400 008	2 30 162 002	0.002	749 400 008	2 30 162 005	0.002
2	748 400 009	2 30 162 002	0.007	749 400 009	2 30 162 005	0.003
2 1/4	748 400 010	2 30 162 002	0.004	749 400 010	2 30 162 005	0.007
2 3/4	748 400 011	2 30 162 002	0.005	749 400 011	2 30 162 005	0.006

D [mm]	D1 [mm]	H [mm]
24	17	2
30	21	3
38	27	3
44	32	3
55	42	3
62	46	3
78	60	3



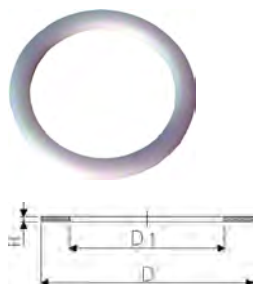
Backing nut PVC-U tank adaptor

Model:

- With G thread ISO 228/1
- Spare part for tank adaptor type 050

M	G [inch]	Code	SP	Weight [kg]	D [mm]	L [mm]	s [mm]
	3/4	161 490 630	400	0.007	39	13	32
	1	161 490 632	200	0.012	48	15	40
	1 1/4	161 490 634	100	0.019	58	17	50
	1 1/2	161 490 635	100	0.027	65	18	56
	1 3/4	161 490 636	75	0.036	72	19	64
	2	161 490 637	50	0.043	79	21	69
	2 1/4	161 490 638	50	0.053	86	21	76
	2 1/2	161 490 639	25	0.063	94	23	85
	2 3/4	161 490 640	25	0.092	106	25	95
	3	161 490 641	20	0.101	112	26	100
M113		161 490 642	0	0.100	139	32	126
M133		161 490 643	0	0.100	162	36	147
	4	161 490 644	10	0.164	139	32	126

PF 2 30 162 999

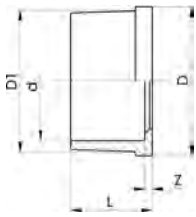


Washer PP for tank adaptor

Model:

- Spare part for tank adaptor type 050

d [mm]	Code	PF	SP	Weight [kg]	H [mm]	D1 [mm]	D [mm]
3/4	727 490 005	2 30 162 019	0	0.002	3	27	39
1	727 490 006	2 30 162 019	0	0.002	3	34	47
1 1/4	727 490 007	2 30 162 019	0	0.001	3	43	58
1 1/2	727 490 108	2 30 162 999	0	0.004	4	49	65
1 3/4	727 490 008	2 30 162 019	0	0.024	4	55	72
2	727 490 009	2 30 162 019	0	0.001	4	61	79
2 1/4	727 490 010	2 30 162 019	0	0.007	4	67	86
2 1/2	727 490 011	2 30 162 019	10	0.008	4	77	95
2 3/4	727 490 111	2 30 162 999	0	0.013	4	83	106
3	727 490 012	2 30 162 999	0	0.013	5	90	112
M113	727 490 013	2 30 162 999	0	0.021	5	115	139
M133	727 490 014	2 30 162 999	0	0.025	5	135	160



Union end PVC-U metric

Model:

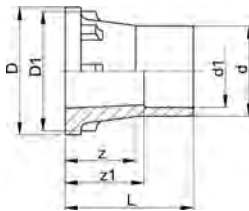
- Solvent cement socket metric
- Suitable for unions, tank connectors and diaphragm valves Type 514

* for unions 721 510 103-114, 721 510 128-139

	d [mm]	PN [bar]	Code	SP	Weight [kg]	z [mm]	D [mm]	D1 [mm]	L [mm]	
	10	16	721 500 103	10	0.004	3	20	18	15	
	12	16	721 500 104	10	0.003	3	20	18	15	
	16	16	721 500 105	10	0.003	3	24	22	17	
	20	16	721 500 106	10	0.008	3	30	28	19	
	25	16	721 500 107	10	0.014	3	39	36	22	
	32	16	721 500 108	10	0.020	3	45	42	25	
	40	16	721 500 109	10	0.037	3	57	53	29	
	50	16	721 500 110	10	0.039	3	63	59	34	
	63	16	721 500 111	10	0.072	3	78	74	41	
	75	10	721 500 162	20	0.140	3	101	90	47	
	90	10	721 500 163	12	0.242	5	121	108	56	
	110	10	721 500 164	10	0.390	5	146	131	66	
*	75	10	721 600 112	110	0.155	3	97	90	47	
*	90	10	721 600 113	0	0.188	5	110	105	56	

PF 2 30 153 999

UPVC Metric



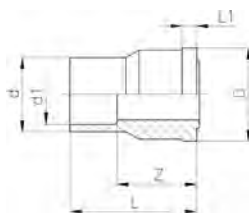
Union end with spigot PVC-U metric

Model:

- Solvent cement spigot in combination with reducing socket metric
- Suitable for unions, tank connectors and diaphragm valves Type 514

	d [mm]	d1 [mm]	PN [bar]	Code	SP	Weight [kg]	z [mm]	z1 [mm]	D [mm]	D1 [mm]	L [mm]	
*	16	12	16	721 500 405	10	0.001	22	24	24	22	36	
*	20	16	16	721 500 406	10	0.009	24	26	30	28	40	
*	25	20	16	721 500 407	10	0.026	25	28	39	36	44	
*	32	25	16	721 500 408	10	0.200	27	30	45	42	49	
	40	32	16	721 500 409	10	0.055	31	35	57	53	57	
	50	40	16	721 500 410	10	0.085	35	40	63	59	66	
	63	50	16	721 500 411	10	0.108	39	46	79	74	77	

PF 2 30 153 999



Union end PVC-U metric

Model:

- For tap connector code no. 721 550 305-307

d [mm]	d1 [mm]	PN [bar]	Code	SP	Weight [kg]	z [mm]	D [mm]	L [mm]	L1 [mm]	
16	12	16	721 600 305	0	0.005	22	19	34	3	
20	16	16	721 600 306	0	0.009	24	24	38	5	
25	20	16	721 600 307	10	0.016	27	30	43	5	

PF 2 30 153 999



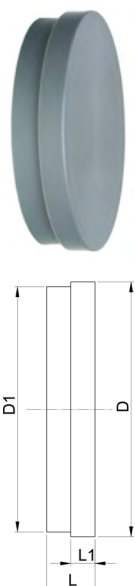
PF 2 30 166 999

Union end PVC-U Rp

Model:

- Parallel female thread Rp

Rp [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	D [mm]	D1 [mm]	L [mm]	
1/4	10	721 600 654	0	0.004	5	20	18	15	
3/8	10	721 600 655	0	0.005	6	24	22	17	
1/2	10	721 600 656	1430	0.010	6	30	28	19	
3/4	10	721 600 657	0	0.012	7	39	36	22	
1	10	721 600 658	0	0.019	8	45	42	25	
1 1/4	10	721 600 659	0	0.038	10	57	53	29	
1 1/2	10	721 600 660	0	0.057	11	63	59	34	
2	10	721 600 661	0	0.102	18	78	74	41	



PF 2 30 153 999

Union end blank PVC-U

Model:

- For unions, tank adaptor and diaphragm valve type 514
- Flat sealing faces

d [mm]	DN [mm]	Inch [inch]	PN [bar]	Code	SP	Weight [kg]	D [mm]	D1 [mm]	L [mm]	L1 [mm]	
10/12		1/8	16	721 600 004	0	0.006	20	18	9	4	
16	10	3/8	16	721 600 005	0	0.004	24	22	10	5	
20	15	1/2	16	721 600 006	0	0.009	30	28	11	5	
25	20	3/4	16	721 600 007	0	0.017	39	36	11	6	
32	25	1	16	721 600 008	0	0.025	45	42	12	6	
40	32	1 1/4	16	721 600 009	0	0.042	57	53	13	7	
50	40	1 1/2	16	721 600 010	0	0.061	63	59	16	7	
63	50	2	16	721 600 011	0	0.108	78	74	18	8	
75	65	2 1/2	10	721 600 012	0	0.216	101	90	22	10	
90	80	3	10	721 600 013	0	0.333	121	108	24	11	
110	100	4	10	721 600 014	0	0.530	146	131	26	12	



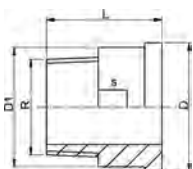
PF 2 30 153 999

Union end stainless steel Rp

Model:

- Material: Stainless Steel 1.4404 (316L)
- Parallel female thread Rp

Rp [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	D [mm]	D1 [mm]	L [mm]	s [mm]	
3/8	16	724 600 655	10	0.030	9	24	22	19	19	
1/2	16	724 600 656	10	0.060	11	30	28	24	24	
3/4	16	724 600 657	10	0.092	11	39	36	26	29	
1	16	724 600 658	10	0.137	12	45	42	29	36	
1 1/4	16	724 600 659	10	0.226	14	57	53	33	45	
1 1/2	16	724 600 660	10	0.314	15	63	59	34	54	
2	16	724 600 661	45	0.438	15	78	74	39	63	



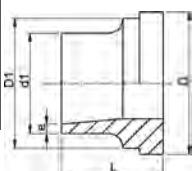
PF 2 30 153 999

Union end stainless steel R

Model:

- Material: Stainless Steel 1.4404 (316L)
- Taper male thread R

R [inch]	PN [bar]	Code	SP	Weight [kg]	D [mm]	D1 [mm]	L [mm]	s [mm]	
3/8	16	724 600 705	10	0.052	24	22	30	19	
1/2	16	724 600 706	10	0.083	30	28	34	24	
3/4	16	724 600 707	10	0.125	39	36	36	32	
1	16	724 600 708	10	0.189	45	42	40	37	
1 1/4	16	724 600 709	10	0.356	57	53	46	48	
1 1/2	16	724 600 710	10	0.407	63	59	48	54	
2	16	724 600 711	10	0.668	78	74	55	69	



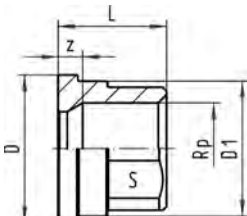
PF 2 30 153 999

Union end stainless steel Welding end

Model:

- Material: Stainless Steel 1.4404 (316L)

d1 [mm]	d [mm]	PN [bar]	Code	SP	Weight [kg]	D [mm]	D1 [mm]	L [mm]	e [mm]	
17	16	16	724 605 505	10	0.029	24	22	18	1.6	
21	20	16	724 605 506	10	0.046	30	28	22	2.0	
26	25	16	724 605 507	10	0.080	39	36	23	2.0	
33	32	16	724 605 508	10	0.112	45	42	26	2.0	
42	40	16	724 605 509	10	0.188	57	53	26	2.0	
48	50	16	724 605 510	10	0.222	63	59	28	2.0	
60	63	16	724 605 511	10	0.361	78	74	32	2.6	



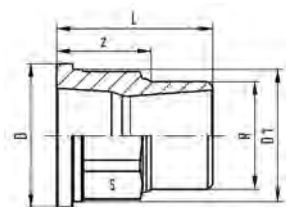
PF 2 30 153 999

Union end brass Rp

Model:

- Union End: Brass with parallel female thread Rp

Rp [inch]	d [mm]	Code	SP	Weight [kg]	L [mm]	s [mm]	D [mm]	D1 [mm]	z [mm]	
1/2	20	720 600 236	1	0.059	22	25	30	28	5	
3/4	25	720 600 237	1	0.100	25	30	39	36	6	
1	32	720 600 238	1	0.128	27	36	45	42	6	
1 1/4	40	720 600 239	1	0.211	31	46	56	53	7	
1 1/2	50	720 600 240	1	0.324	35	55	62	59	7	
2	63	720 600 241	1	0.510	40	65	78	74	8	
2 1/2	75	720 600 242	1	0.893	47	85	100	92	10	
3	90	720 600 243	1	1.395	52	95	121	110	11	



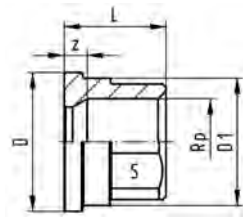
PF 2 30 153 999

Union end brass R

Model:

- Union End: Brass with taper male thread R

d [mm]	R [inch]	Code	SP	Weight [kg]	z [mm]	D1 [mm]	D [mm]	s [mm]	L [mm]	
20	1/2	720 600 246	1	0.092	22	28	30	25	37	
25	3/4	720 600 247	1	0.151	25	36	39	30	42	
25	1/2	720 600 257	1	0.142	27	36	39	30	42	
32	1	720 600 248	1	0.216	28	42	45	36	46	
32	1/2	720 600 258	1	0.113	31	42	45	36	46	
32	3/4	720 600 268	1	0.206	30	42	45	36	46	
40	1 1/4	720 600 249	1	0.408	32	53	56	46	52	
50	1 1/2	720 600 250	1	0.538	36	59	62	55	56	
63	2	720 600 251	1	0.859	42	74	78	65	67	
75	2 1/2	720 600 252	1	1.446	49	92	100	85	77	
90	3	720 600 253	1	2.063	54	110	121	95	86	



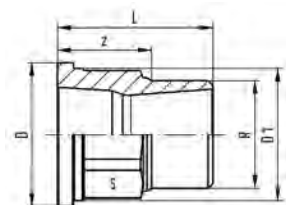
PF 2 30 153 999

Union end malleable iron galvanized Rp

Model:

- Union End: malleable iron with parallel female thread Rp

d [mm]	Rp [inch]	PN [bar]	Code	SP	Weight [kg]	D [mm]	L [mm]	s [mm]	z [mm]	D1 [mm]	
20	1/2	16	724 600 206	0	0.037	30	22	25	9	27	
25	3/4	16	724 600 207	0	0.072	39	22	31	7	36	
32	1	16	724 600 208	120	0.088	44	26	38	9	41	
40	1 1/4	16	724 600 209	0	0.172	56	31	48	12	52	
50	1 1/2	16	724 600 210	10	0.210	62	33	54	14	58	
63	2	16	724 600 211	0	0.324	78	35	67	11	73	
75	2 1/2	16	724 600 212	35	0.557	100	39	85	12	92	
90	3	16	724 600 213	0	0.650	121	45	96	15	110	



PF 2 30 153 999

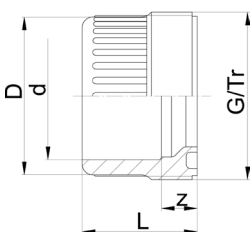
Union end malleable iron galvanized R

Model:

- Union End: Malleable iron with taper male thread R

R [inch]	d [mm]	Code	SP	Weight [kg]	D [mm]	L [mm]	D1 [mm]	z [mm]	s [mm]	
1/2	20	724 600 806	0	0.069	30	40	27	25	23	
3/4	25	724 600 807	1	0.115	39	43	36	27	30	
1	32	724 600 808	0	0.161	44	48	41	29	36	
1 1/4	40	724 600 809	0	0.294	56	57	52	36	48	
1 1/2	50	724 600 810	0	0.353	62	59	58	37	54	
2	63	724 600 811	0	0.570	78	62	73	36	66	
2 1/2	75	724 600 812	0	0.980	100	75	92	45	85	
3	90	724 600 813	0	1.217	121	80	110	47	95	

UPVC Metric



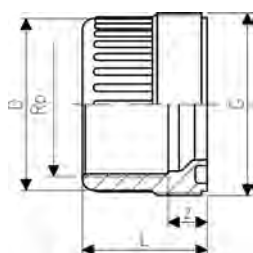
PF 2 30 153 999

Union bush PVC-U metric

Model:

- Solvent cement socket metric
- Jointing face: With O-Ring groove
- Gasket: O-ring EPDM code no. 748 410 004-016; d90 748 410 248

d [mm]	PN [bar]	Code	SP	Weight [kg]	z [mm]	D [mm]	L [mm]	G/Tr [inch]	
10	16	721 840 103	10	0.002	10	20	22	5/8	
12	16	721 840 104	10	0.007	10	20	22	5/8	
16	16	721 840 105	10	0.009	10	24	24	3/4	
20	16	721 840 106	10	0.014	10	29	26	1	
25	16	721 840 107	10	0.020	10	34	29	1 1/4	
32	16	721 840 108	10	0.032	10	42	33	1 1/2	
40	16	721 840 109	10	0.057	12	52	39	2	
50	16	721 840 110	10	0.073	14	62	46	2 1/4	
63	16	721 840 111	10	0.137	18	78	58	2 3/4	
75	10	721 840 112	20	0.210	18	93	62	Tr108x5	
90	10	721 840 123	12	0.355	18	110	69	Tr128x5	
110	10	721 840 114	10	0.445	11	133	72	Tr154x6	



PF 2 30 153 999

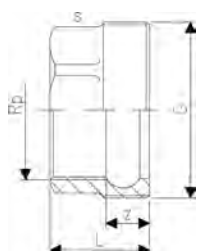
Union bush PVC-U Rp

Model:

- With parallel female thread Rp
- Jointing face: With O-Ring groove
- Gasket: O-ring EPDM code no. 748 410 004-011
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U

Rp [inch]	PN [bar]	Code	SP	Weight [kg]	G [inch]	z [mm]	D [mm]	L [mm]	
1/4	10	721 840 604	10	0.007	5/8	12	20	22	
3/8	10	721 840 605	10	0.009	3/4	13	24	24	
1/2	10	721 840 606	10	0.013	1	13	29	26	
3/4	10	721 840 607	10	0.026	1 1/4	14	34	29	
1	10	721 840 608	10	0.036	1 1/2	15	42	32	
1 1/4	10	721 840 609	10	0.063	2	19	53	38	
1 1/2	10	721 840 610	10	0.098	2 1/4	26	63	45	
2	10	721 840 611	10	0.187	2 3/4	33	78	56	

UPVC Metric



PF 2 30 153 999

Union bush malleable iron galvanized Rp

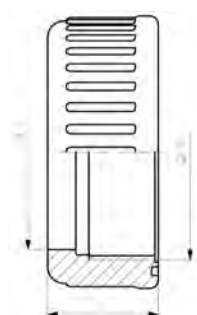
Model:

- Parallel female thread Rp

PN [bar]	Rp [inch]	d [mm]	Code	SP	Weight [kg]	G [inch]	z [mm]	s [mm]	L [mm]	
16	1/2	20	724 630 606	0	0.058	1	12	25	25	
16	3/4	25	724 630 607	0	0.100	1 1/4	13	31	28	
16	1	32	724 630 608	0	0.127	1 1/2	14	28	31	
16	1 1/4	40	724 630 609	0	0.204	2	14	47	33	
16	1 1/2	50	724 630 610	24	0.268	2 1/4	17	53	36	
16	2	63	724 630 611	0	0.443	2 3/4	18	66	42	
16	2 1/2	75	724 630 612	0	0.679	3 1/2	19	82	46	
16	3	90	724 630 613	0	0.913	4	22	96	52	

Union nut PVC-U

* for Adaptor unions PVC-U / malleable iron only



PF 2 30 153 999

	d [mm]	PN [bar]	Code	SP	Weight [kg]	Tr	G [inch]	D [mm]	L [mm]	
	10 - 12	16	721 890 004	10	0.009		5/8	19	19	
	16	16	721 890 005	10	0.011		3/4	22	21	
	20	16	721 890 006	10	0.020		1	28	23	
	25	16	721 890 007	10	0.020		1 1/4	36	24	
	32	16	721 890 008	10	0.030		1 1/2	41	26	
	40	16	721 890 009	10	0.049		2	53	29	
	50	16	721 890 010	10	0.087		2 1/4	59	34	
	63	16	721 890 011	10	0.138		2 3/4	74	38	
	75	10	721 890 012	20	0.256	Tr 108x5		92	40	
	90	10	721 890 013	12	0.370	Tr 128x5		110	43	
*	90	10	721 890 023	12	0.355	Tr 128x5		105	43	
	110	10	721 890 014	10	0.574	Tr 154x6		133	48	

Fixed flanges PVC-U

Fixed flange PVC-U Joining face flat metric

Model:

- Bolt circle PN 10
- Solvent cement socket metric
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

* Combined Flange, connecting dimensions EN1092 PN 10 and ANSI B 16.5 Class 150

	d [mm]	DN [mm]	Size [inch]	PN [bar]	Code	SP	Weight [kg]
	20	15	½	16	721 730 206	0	0.098
	25	20	¾	16	721 730 207	0	0.130
	32	25	1	16	721 730 208	0	0.183
	40	32	1 ¼	16	721 730 209	0	0.305
	50	40	1 ½	16	721 730 210	0	0.365
	63	50	2	16	721 730 211	0	0.510
*	75	65	2 ½	10	721 730 212	10	0.520
*	90	80	3	10	721 730 213	16	0.720
*	110	100	4	10	721 730 214	12	0.920
*	140	125	5	10	721 730 216	1	1.380
*	160	150	6	10	721 730 217	1	2.039

	d [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	z [mm]	H [mm]	H1 [mm]	AL	SC
	20	95	65	27	14	3	12	19	4	M12
	25	105	75	33	14	3	13	22	4	M12
	32	115	85	41	14	3	14	25	4	M12
	40	140	100	51	18	3	17	29	4	M16
	50	150	110	62	18	3	17	34	4	M16
	63	165	125	77	18	3	20	41	4	M16
*	75	185	142	91	22	3	21	47	4	M20
*	90	200	156	108	22	5	22	56	8	M20
*	110	220	186	131	24	5	24	66	8	M20
*	140	250	215	165	23	5	28	91	8	M20
*	160	285	240	188	23	5	30	91	8	M20

PF 2 30 163 005

Fixed flange PVC-U Combined joining face: flat and serrated metric

Model:

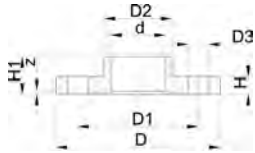
- Solvent cement socket metric
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10
- Bolt circle PN 10

* Combined Flange, connecting dimensions EN1092 PN 10 and ANSI B 16.5 Class 150
d75 - d110: bolt hole as long hole version

AL: number of holes

	d [mm]	DN [mm]	d [inch]	PN [bar]	Code	PF	SP	Weight [kg]
	20	15		16	721 740 106	2 30 163 004	50	0.100
	25	20		16	721 740 107	2 30 163 004	0	0.130
	32	25		16	721 740 108	2 30 163 004	0	0.185
	40	32		16	721 740 109	2 30 163 004	0	0.306
	50	40		16	721 740 110	2 30 163 004	0	0.368
	63	50		16	721 740 111	2 30 163 004	0	0.513
*	75	65	2 ½	10	721 740 112	2 30 163 005	10	0.536
*	90	80	3	10	721 740 113	2 30 163 005	16	0.710
*	110	100	4	10	721 740 114	2 30 163 005	12	0.941
*	140	125	5	10	721 740 116	2 30 163 005	1	1.395
*	160	150	6	10	721 740 117	2 30 163 005	1	2.029

table continued next page



	d [mm]	D [mm]	D1 [mm]	D1 max. [mm]	D1 min. [mm]	D2 [mm]	D3 [mm]	z [mm]	H [mm]	H1 [mm]	AL	SC	
	20	95	65			27	14	3	12	19	4	M12	
	25	105	75			33	14	3	13	22	4	M12	
	32	115	85			41	14	3	14	25	4	M12	
	40	140	100			51	18	3	17	29	4	M16	
	50	150	110			62	18	3	17	34	4	M16	
	63	165	125			77	18	3	20	41	4	M16	
*	75	185		140	144	91	19	3	21	47	4	M16	
*	90	200		153	159	108	19	5	22	56	8	M16	
*	110	220		181	191	131	24	5	24	66	8	M20	
*	140	250	215			165	23	5	28	91	8	M20	
*	160	285	240			188	23	5	30	91	8	M20	

Flange adaptors

Flange adaptor PVC-U

Combined jointing face flat and serrated metric

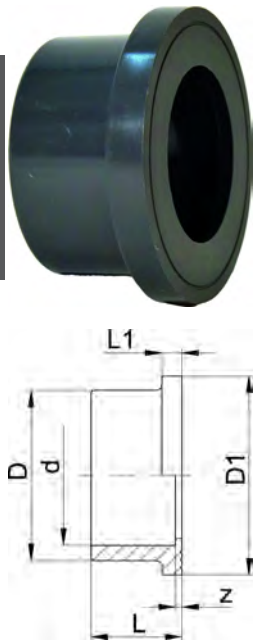
Model:

- Solvent cement socket metric
- d63 - d400: combined jointing face flat and serrated
- Gasket: profile flange gasket EPDM code no. 748 440 705-725, FPM code no. 749 440 705-725 or flat gasket EPDM code no. 748 440 705-725, only use O-ring EPDM code no. 748 410 000-174, FPM code no. 749 410 000-174 in combination with counterpart flange adaptor code no. 721 810 105-123
- Flange: PVC-U code no. 721 700 005-140, PP with steel ring code no. 727 700 206-225, backing flange PP-V for socket systems metric code no. 727 700 406-425

Note:

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

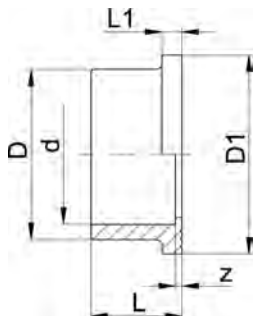
The flat gasket affects the maximum allowable operating pressure!



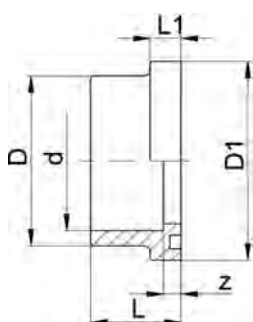
	DN [mm]	d [inch]	d [mm]	PN [bar]	Code	PF	SP	Weight [kg]	
	10		16	16	721 800 105	2 30 153 020	10	0.006	
	15		20	16	721 800 106	2 30 153 020	10	0.009	
	20		25	16	721 800 107	2 30 153 020	10	0.015	
	25		32	16	721 800 108	2 30 153 020	10	0.024	
	32		40	16	721 800 109	2 30 153 020	10	0.039	
	40		50	16	721 800 110	2 30 153 020	10	0.056	
	50		63	16	721 790 111	2 30 153 019	10	0.103	
	65	2 ½	75	16	721 790 112	2 30 153 019	10	0.159	
	80		90	16	721 790 113	2 30 153 019	10	0.253	
	100		110	16	721 790 114	2 30 153 019	10	0.417	
	100		125	16	721 790 115	2 30 153 019	5	0.533	
	125	5	140	16	721 790 116	2 30 153 019	6	0.725	
	150		160	16	721 790 117	2 30 153 019	2	1.093	
*	200		200	10	721 790 119	2 30 153 019	2	1.443	
	200		225	10	721 790 120	2 30 153 019	2	1.743	
*	250		250	10	721 790 121	2 30 153 019	1	2.203	
	250		280	10	721 790 122	2 30 153 019	1	2.930	
*	300		315	6	721 790 123	2 30 153 019	1	4.455	
	350		355	6	721 790 124	2 30 153 019	1	5.963	
	400		400	6	721 790 125	2 30 153 019	1	9.041	

	D1 [mm]	z [mm]	L [mm]	D [mm]	L1 [mm]	
	29	3	17	22	6	
	34	3	19	27	6	
	41	3	22	33	7	
	50	3	25	41	7	
	61	3	29	50	8	
	73	3	34	61	8	
	90	3	41	77	9	
	106	3	47	91	10	
	125	5	56	108	11	
	150	5	66	131	12	

table continued next page



	D1 [mm]	z [mm]	L [mm]	D [mm]	L1 [mm]
*	170	5	74	148	13
	188	5	81	165	14
	213	5	91	188	16
	250	6	112	224	24
	274	6	125	248	25
*	303	9	140	274	23
	329	5	151	308	23
*	379	8	172	346	27
	430	10	194	384	32
	482	10	216	438	34



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

Model:

- Solvent cement socket metric
- Counterpart: flange adaptor flat code no. 721 800 105-721 790 111-125, combined flange adaptor (d160, d200, d225, d280, d315)
- Gasket: O-ring EPDM code no. 748 410 000-176, FPM code no. 749 410 000-176
- Flange: PVC-U code no. 721 700 005-138, PP/steel code no. 727 700 206-223, PP-V for socket systems metric code no. 727 700 406-423

d [inch]	d [mm]	DN [mm]	PN [bar]	Code	SP	Weight [kg]	D1 [mm]	z [mm]	D [mm]	L [mm]	L1 [mm]
2 ½	16	10	16	721 810 105	10	0.008	29	6	22	20	9
	20	15	16	721 810 106	100	0.011	34	6	27	22	9
	25	20	16	721 810 107	10	0.018	41	6	33	25	10
	32	25	16	721 810 108	10	0.027	50	6	41	28	10
	40	32	16	721 810 109	10	0.046	61	8	50	34	13
	50	40	16	721 810 110	10	0.068	73	8	61	39	13
	63	50	16	721 810 111	10	0.120	90	8	77	46	14
	75	65	16	721 810 112	10	0.183	106	8	91	52	15
	90	80	16	721 810 113	10	0.286	125	10	108	61	16
	110	100	16	721 810 114	10	0.478	150	11	131	72	18
5	125	100	16	721 810 115	5	0.607	170	11	148	80	19
	140	125	16	721 810 116	6	0.804	188	11	165	87	20
	160	150	16	721 810 117	2	1.226	213	11	188	97	22
	200	200	10	721 810 119	2	1.593	250	12	224	118	30
	225	200	10	721 810 120	2	1.878	274	12	248	131	31
	250	250	10	721 810 121	1	2.175	303	9	274	140	23
	280	250	10	721 810 122	1	3.170	329	13	308	158	30
	315	300	6	721 810 123	1	4.891	379	17	346	180	35

PF 2 30 153 021



Machined Vanstones to suit AS1477 ANSI #150 Drilling

Note:

For use with 200 060 1** pipe.

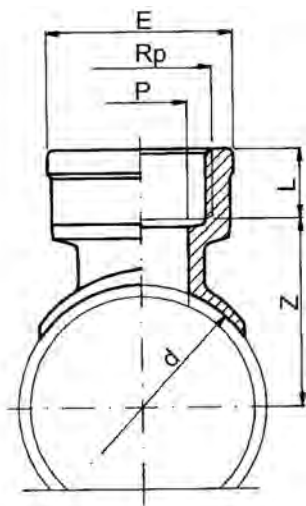
d [mm]	PN	Weight [kg]	Code	SP	GP	kg
225	10	3.765	200 060 313	-	-	3.728
280	10	5.860	200 060 315	-	-	6.063

PF 2 29 608 099



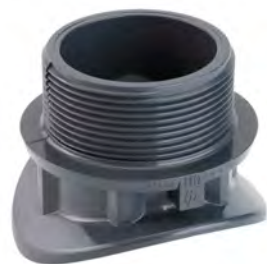
Saddle with female thread Rp PVC-U

d [mm]	Rp [inch]	PN [bar]	Code	SP	Weight [kg]	P [mm]	E [mm]	L [mm]	Z [mm]	
32	1/4	10	DV0DEF32Z	15	0.010	11	24.2	12.9	28.9	
32	3/8	10	DV0DEF32A	15	0.015					
40	3/8	10	DV0DEF40A	15	0.009	11	24.2	14.0	32.0	
50	1/4	10	DV0DEF50Z	15	0.010	11	24.2	12.9	37.9	
50	3/8	10	DV0DEF50A	15	0.015	11	24.2	14.0	37.0	
50	1/2	10	DV0DEF50B	15	0.015	14	30.0	15.0	42.0	
50	3/4	10	DV0DEF50C	10	0.024	19	36.0	16.3	43.0	
63	3/8	10	DV0DEF63A	15	0.015	11	24.2	14.0	43.5	
63	1/2	10	DV0DEF63B	15	0.015	14	30.0	15.0	48.0	
63	3/4	10	DV0DEF63C	10	0.023	19	36.0	16.3	49.0	
75	3/8	10	DV0DEF75A	15	0.016	11	24.2	14.0	49.5	
75	3/4	10	DV0DEF75C	10	0.023	19	36.0	16.3	55.0	
75	1	10	DV0DEF75D	10	0.036	24	45.0	19.1	56.0	
90	1/2	10	DV0DEF90B	15	0.013	14	30.0	15.0	62.0	
90	1	10	DV0DEF90D	10	0.037	24	45.0	19.1	64.0	
90	1 1/2	10	DV0DEF90F	24	0.095	38	64.0	21.4	66.0	
110	1/2	10	DV0DEF91B	15	0.010	14	30.0	15.0	72.0	



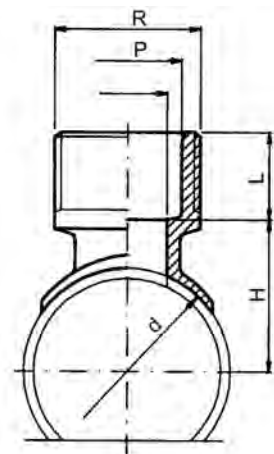
PF 2 01 950 011

UPVC Metric



Saddle with male thread R PVC-U

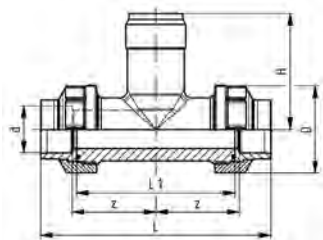
R [inch]	d [mm]	PN [bar]	Code	SP	Weight [kg]	L [mm]	P [mm]	H [mm]	
1/2	50	10	DV0DMF50B	15	0.012	15.0	14	42	
1 1/2	90	10	DV0DMF90F	12	0.065	21.4	38	66	
1	110	10	DV0DMF91D	10	0.036	19.1	24	74	
1 1/2	140	10	DV0DMF93F	12	0.060	21.4	38	91	



PF 2 01 950 011

Installation fittings

Installation fitting type 310 PVC-U For socket systems metric



Range of use:

- compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- compatible signet pH/ORP sensors: type 2724, 2725, 2726

Attention:

- sensor length depends on installation fitting

Model:

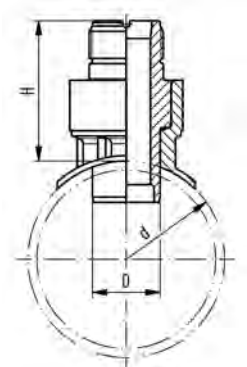
- Threaded outlet 1 1/4" NPSM
- Union end with solvent cement socket PVC-U

d [mm]	DN [mm]	PN [bar]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
20	15	16	721 310 006	0	0.181	721 310 036	1	0.181
25	20	16	721 310 007	1	0.226	721 310 037	1	0.226
32	25	16	721 310 008	1	0.303	721 310 038	1	0.304
40	32	16	721 310 009	1	0.419	721 310 039	1	0.479
50	40	16	721 310 010	1	0.568	721 310 040	1	0.571
63	50	16	721 310 011	1	0.879	721 310 041	1	0.881

d [mm]	DN [mm]	L1 [mm]	D [mm]	H [mm]	L [mm]	Sensor Type	z [mm]
20	15	90	43	76	128	flow X0, pH XX	48
25	20	100	51	78	144	flow X0, pH XX	53
32	25	110	58	81	160	flow X0, pH XX	58
40	32	110	72	85	168	flow X0, pH XX	58
50	40	120	83	89	188	flow X0, pH XX	63
63	50	130	100	95	212	flow X0, pH XX	68

PF 2 98 930 003

Installation fitting type 312 PVC-U metric glue on saddle



Model:

- Top saddle for solvent cement bonding
- Saddle with threaded outlet 1 1/4" NPSM

Range of use:

- compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512

Attention:

- sensor length depends on installation fitting

PN [bar]	DN [mm]	d [mm]	Code	SP	Weight [kg]	D [mm]	Sensor Type	H [mm]
10	65	75	721 312 012	1	0.220	38	flow X1	89
10	80	90	721 312 013	1	0.228	38	flow X1	89
10	100	110	721 312 014	1	0.225	38	flow X1	89
10	100	125	721 312 015	1	0.218	38	flow X1	81
10	125	140	721 312 016	1	0.213	38	flow X1	79
10	150	160	721 312 017	1	0.217	38	flow X1	76
10	200	200	721 312 019	1	0.192	38	flow X1	69
10	200	225	721 312 020	1	0.297	38	flow X2	141
10	250	250	721 312 021	1	0.295	38	flow X2	137
10	300	315	721 312 023	1	0.290	38	flow X2	127

PF 2 98 931 003



Installation fitting type 312 PVC-U metric clamp on saddle

Model:

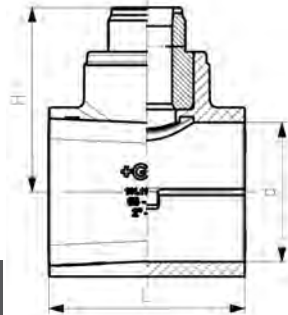
- Saddle with threaded outlet 1 1/4" NPSM
- Top saddle for solvent cement bonding
- Seal: Lip seal of EPDM

Range of use:

- compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- compatible signet pH/ORP sensors: type 2724, 2725, 2726

Attention:

- sensor length depends on installation fitting



PF 2 98 931 003

DN [mm]	PN	d [mm]	Code	SP	Weight [kg]	Sensor Type	H [mm]	L [mm]	
65	16	75	198 150 538	1	0.780	flow X0, pH XX	99	105	
80	16	90	198 150 539	1	0.835	flow X0, pH XX	105	105	
100	16	110	198 150 540	1	0.885	flow X0, pH XX	114	105	
150	16	160	198 150 543	1	1.375	flow X1	157	120	
200	16	225	198 150 545	1	1.700	flow X1	184	120	

UPVC Metric



Installation fitting type 314 PVC-U metric

Model:

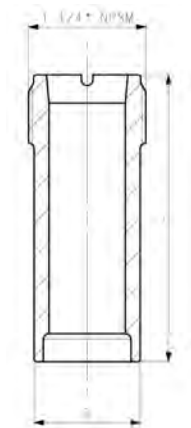
- Threaded outlet 1 1/4" NPSM
- for conventional hot gas back welding according to DVS 2207 part 3

Attention:

- only for pressureless or low pressure application
- pressure rate depends on quality of hot gas back welding
- please consult the instruction manual
- Installation by trained and certified welders only
- sensor length depends on installation fitting

Range of use:

- compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- compatible signet pH/ORP sensors: type 2724, 2725, 2726



PF 2 98 931 003

DN	d [mm]	PN* [bar]	Code	SP	Weight [kg]	Sensor Type	D [mm]	L [mm]	
65 - 150	75 - 180	-	721 314 000	1	0.053	flow X0, pH XX	38	68	
200 - 350	200 - 355	-	721 314 001	1	0.078	flow X1	38	102	
350 - 600	400 - 630	-	721 314 002	1	0.153	flow X2	38	178	

Valves

PVC-U body

Ball valve type 546 PVC-U With mounting inserts With solvent cement sockets metric

Model:

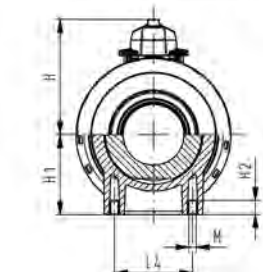
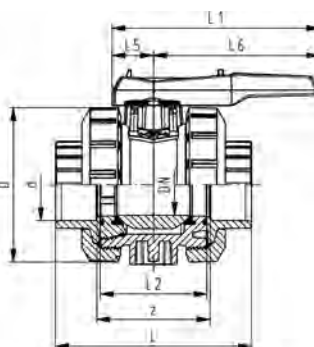
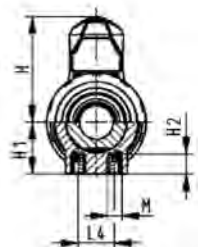
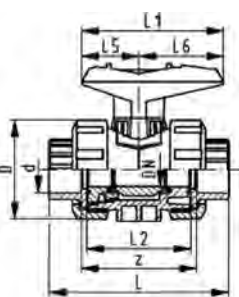
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



DN10/15 - 50



d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
16		10	16	71	161 546 061	2 31 546 801	1	0.153
20		15	16	185	161 546 062	2 31 546 801	1	0.156
25		20	16	350	161 546 063	2 31 546 801	1	0.240
32		25	16	700	161 546 064	2 31 546 801	1	0.343
40		32	16	1000	161 546 065	2 31 546 801	1	0.610
50		40	16	1600	161 546 066	2 31 546 801	1	0.838
63		50	16	3100	161 546 067	2 31 546 801	1	1.537
75	2 1/2	65	16	5000	161 546 068	2 31 546 604	1	4.343
90		80	16	7000	161 546 069	2 31 546 601	1	6.184
110		100	16	11000	161 546 070	2 31 546 601	1	8.642

d [mm]	FPM Code	PF	SP	Weight [kg]
16	161 546 071	2 31 546 801	1	0.156
20	161 546 072	2 31 546 801	1	0.158
25	161 546 073	2 31 546 801	1	0.242
32	161 546 074	2 31 546 801	1	0.345
40	161 546 075	2 31 546 801	1	0.615
50	161 546 076	2 31 546 801	1	0.844
63	161 546 077	2 31 546 801	1	1.552
75	161 546 078	2 31 546 604	1	3.563
90	161 546 079	2 31 546 601	1	5.376
110	161 546 080	2 31 546 601	0	11.600

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	closest inch [inch]
16	50	57	27	12	92	77	56	25	32	45	6	64	3/8
20	50	57	27	12	95	77	56	25	32	45	6	64	1/2
25	58	67	30	12	110	97	65	25	39	58	6	72	3/4
32	68	73	36	12	123	97	71	25	39	58	6	79	1
40	84	90	44	15	146	128	85	45	54	74	8	94	1 1/4
50	97	97	51	15	157	128	89	45	54	74	8	95	1 1/2
63	124	116	64	15	183	152	101	45	66	87	8	107	2
75	166	149	85	15	233	270	136	70	64	206	8	144	2 1/2
90	200	161	105	15	254	270	141	70	64	206	8	151	3
110	238	178	123	22	301	320	164	120	64	256	12	174	4



DN10/15 - 50



Ball valve type 546 PVC-U With lockable handle With solvent cement sockets Inch BS

Model:

- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Lockable hand lever with ratchet settings

Option:

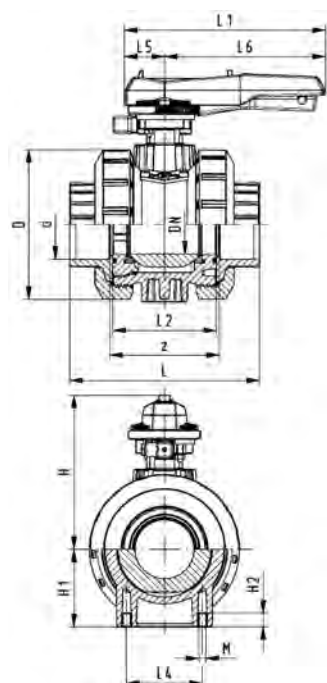
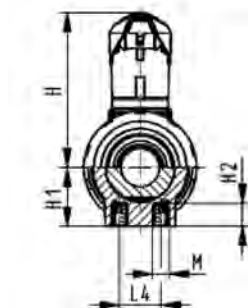
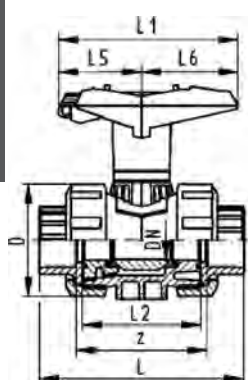
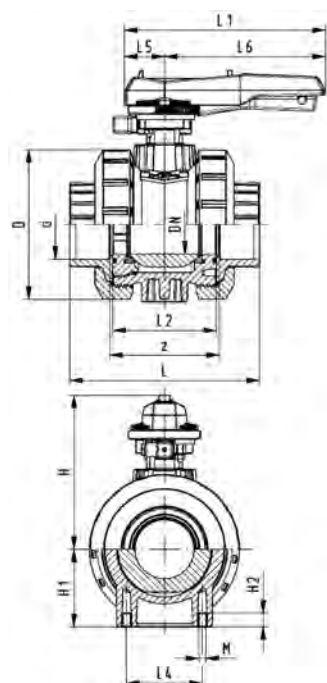
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
75	3/8	10	16	71	161 546 221	2 31 546 804	1	0.165
	1/2	15	16	185	161 546 222	2 31 546 804	1	0.164
	3/4	20	16	350	161 546 223	2 31 546 804	1	0.255
	1	25	16	700	161 546 224	2 31 546 804	1	0.358
	1 1/4	32	16	1000	161 546 225	2 31 546 804	1	0.625
	1 1/2	40	16	1600	161 546 226	2 31 546 804	1	0.855
	2	50	16	3100	161 546 227	2 31 546 804	1	1.605
	2 1/2	65	16	5000	161 546 088	2 31 546 604	0	5.200
	3	80	16	7000	161 546 229	2 31 546 604	0	7.700
	4	100	16	11000	161 546 230	2 31 546 604	0	12.000

FPM Code	PF	SP	Weight [kg]
161 546 231	2 31 546 804	1	0.165
161 546 232	2 31 546 804	1	0.165
161 546 233	2 31 546 804	1	0.255
161 546 234	2 31 546 804	1	0.355
161 546 235	2 31 546 804	1	0.625
161 546 236	2 31 546 804	1	0.855
161 546 237	2 31 546 804	1	1.535
161 546 098	2 31 546 604	0	5.200
161 546 239	2 31 546 604	0	7.700
161 546 240	2 31 546 604	0	12.000

D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	closest inch [inch]
50	79	27	12	92	87	56	25	42	45	M6	60	
50	79	27	12	95	87	56	25	42	45	M6	60	
58	88	30	12	110	108	65	25	50	58	M6	69	
68	94	36	12	123	108	71	25	50	58	M6	75	
84	113	44	15	146	140	85	45	66	75	M8	89	
97	119	51	15	157	140	89	45	66	75	M8	97	

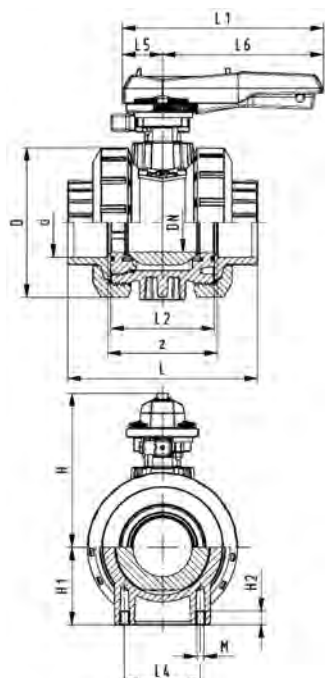
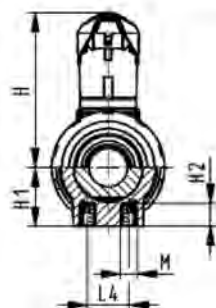
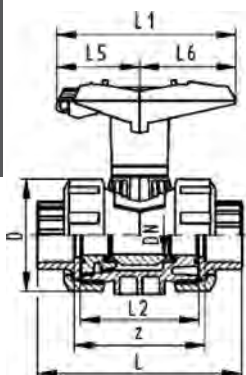
table continued next page



D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	closest inch [inch]	
124	141	64	15	183	165	101	45	78	87	M8	110	2 ½	
166	224	85	15	233	270	136	70	64	206	M8	144		
200	235	105	15	254	270	141	70	64	206	M8	151		
238	245	123	22	301	320	164	120	64	256	M12	174		



DN10/15 - 50



Ball valve type 546 PVC-U With lockable handle With solvent cement sockets Inch BS

Model:

- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Lockable hand lever with ratchet settings

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
75	3/8	10	16	71	161 546 221	2 31 546 804	1	0.165
	1/2	15	16	185	161 546 222	2 31 546 804	1	0.164
	3/4	20	16	350	161 546 223	2 31 546 804	1	0.255
	1	25	16	700	161 546 224	2 31 546 804	1	0.358
	1 1/4	32	16	1000	161 546 225	2 31 546 804	1	0.625
	1 1/2	40	16	1600	161 546 226	2 31 546 804	1	0.855
	2	50	16	3100	161 546 227	2 31 546 804	1	1.605
	2 1/2	65	16	5000	161 546 088	2 31 546 604	0	5.200
	3	80	16	7000	161 546 229	2 31 546 604	0	7.700
	4	100	16	11000	161 546 230	2 31 546 604	0	12.000

FPM Code	PF	SP	Weight [kg]
161 546 231	2 31 546 804	1	0.165
161 546 232	2 31 546 804	1	0.165
161 546 233	2 31 546 804	1	0.255
161 546 234	2 31 546 804	1	0.355
161 546 235	2 31 546 804	1	0.625
161 546 236	2 31 546 804	1	0.855
161 546 237	2 31 546 804	1	1.535
161 546 098	2 31 546 604	0	5.200
161 546 239	2 31 546 604	0	7.700
161 546 240	2 31 546 604	0	12.000

D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	closest inch [inch]
50	79	27	12	92	87	56	25	42	45	M6	60	
50	79	27	12	95	87	56	25	42	45	M6	60	
58	88	30	12	110	108	65	25	50	58	M6	69	
68	94	36	12	123	108	71	25	50	58	M6	75	
84	113	44	15	146	140	85	45	66	75	M8	89	
97	119	51	15	157	140	89	45	66	75	M8	97	

table continued next page

D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	closest inch [inch]	
124	141	64	15	183	165	101	45	78	87	M8	110	2 ½	
166	224	85	15	233	270	136	70	64	206	M8	144		
200	235	105	15	254	270	141	70	64	206	M8	151		
238	245	123	22	301	320	164	120	64	256	M12	174		



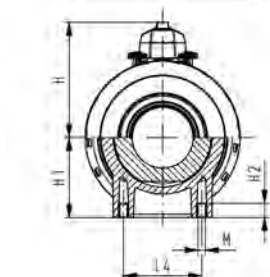
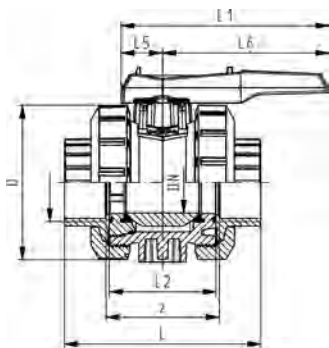
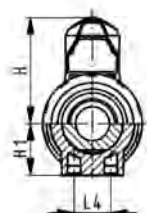
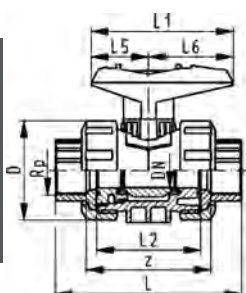
Ball valve type 546 PVC-U With threaded sockets Rp

Model:

- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



Rp [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
3/8	10	10	71	161 546 021	2 31 546 801	1	0.150
1/2	15	10	185	161 546 022	2 31 546 801	1	0.155
3/4	20	10	350	161 546 023	2 31 546 801	1	0.238
1	25	10	700	161 546 024	2 31 546 801	1	0.348
1 1/4	32	10	1000	161 546 025	2 31 546 801	1	0.603
1 1/2	40	10	1600	161 546 026	2 31 546 801	1	0.800
2	50	10	3100	161 546 027	2 31 546 801	1	1.575
2 1/2	65	10	5000	161 546 028	2 31 546 601	0	5.000
3	80	10	7000	161 546 029	2 31 546 601	1	5.437
4	100	10	11000	161 546 030	2 31 546 601	0	11.700

Rp [inch]	FPM Code	PF	SP	Weight [kg]
3/8	161 546 031	2 31 546 801	1	0.150
1/2	161 546 032	2 31 546 801	1	0.150
3/4	161 546 033	2 31 546 801	1	0.230
1	161 546 034	2 31 546 801	1	0.330
1 1/4	161 546 035	2 31 546 801	1	0.600
1 1/2	161 546 036	2 31 546 801	1	0.800
2	161 546 037	2 31 546 801	1	1.460
2 1/2	161 546 038	2 31 546 601	0	5.000
3	161 546 039	2 31 546 601	0	7.500
4	161 546 040	2 31 546 601	0	11.700

Rp [inch]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	z [mm]
3/8	50	57	27	95	77	56	25	32	45	69
1/2	50	57	27	100	77	56	25	32	45	67
3/4	58	67	30	114	97	65	25	39	58	78
1	68	73	36	127	97	71	25	39	58	85
1 1/4	84	90	44	146	128	85	45	54	74	100
1 1/2	97	97	51	152	128	89	45	54	74	106
2	124	116	64	177	152	101	45	66	87	121
2 1/2	166	149	85	233	270	136	70	64	206	144
3	200	161	105	254	270	141	70	64	206	151
4	238	178	123	301	320	164	120	64	256	174



DN10/15 - 50



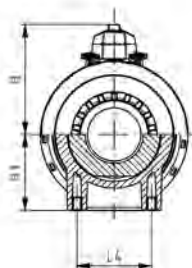
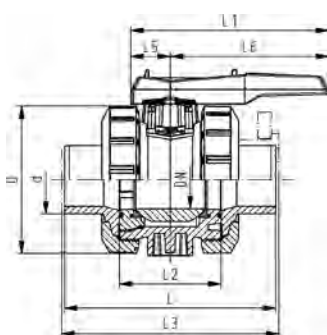
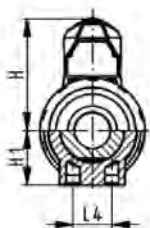
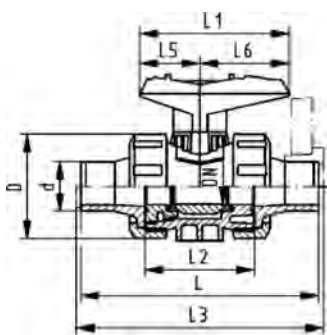
Ball valve type 546 PVC-U With solvent cement spigots metric

Model:

- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



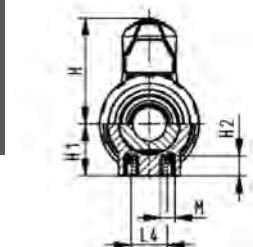
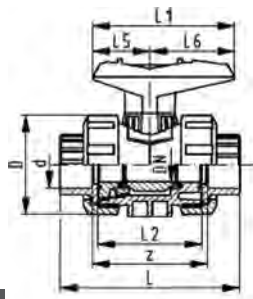
d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
16	10	16	71	161 546 041	2 31 546 801	1	0.155
20	15	16	185	161 546 042	2 31 546 801	1	0.155
25	20	16	350	161 546 043	2 31 546 801	1	0.240
32	25	16	700	161 546 044	2 31 546 801	1	0.351
40	32	16	1000	161 546 045	2 31 546 801	1	0.610
50	40	16	1600	161 546 046	2 31 546 801	1	0.840
63	50	16	3100	161 546 047	2 31 546 801	1	1.602
75	65	16	5000	161 546 048	2 31 546 601	0	5.100
90	80	16	7000	161 546 049	2 31 546 601	1	5.776
110	100	16	11000	161 546 050	2 31 546 601	0	11.900

d [mm]	FPM Code	PF	SP	Weight [kg]
16	161 546 051	2 31 546 801	1	0.155
20	161 546 052	2 31 546 801	1	0.155
25	161 546 053	2 31 546 801	1	0.240
32	161 546 054	2 31 546 801	1	0.345
40	161 546 055	2 31 546 801	1	0.615
50	161 546 056	2 31 546 801	1	0.840
63	161 546 057	2 31 546 801	1	1.545
75	161 546 058	2 31 546 601	0	5.100
90	161 546 059	2 31 546 601	0	7.500
110	161 546 060	2 31 546 601	0	11.900

d [mm]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	closest inch [inch]
16	50	57	27	114	77	56		25	32	45	¾
20	50	57	27	124	77	56	130	25	32	45	½
25	58	67	30	144	97	65	150	25	39	58	¾
32	68	73	36	154	97	71	160	25	39	58	1
40	84	90	44	174	128	85	180	45	54	74	1 ¼
50	97	97	51	194	128	89	200	45	54	74	1 ½
63	124	116	64	224	152	101	230	45	66	87	2
75	166	149	85	284	270	136	290	70	64	206	2 ½
90	200	161	105	300	270	141	310	70	64	206	3
110	238	178	123	340	320	164	350	120	64	256	4



DN10/15 - 50



UPVC Metric

PF 2 31 546 801

Ball valve type 546 PVC-U With mounting inserts With fusion sockets PE100 metric

Model:

- Material: PVC-U/PE
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346

Option:

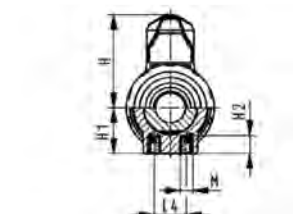
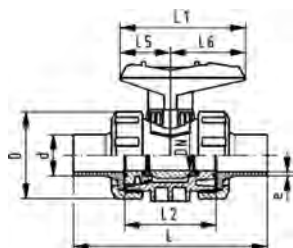
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
16	10	16	71	161 546 761	1	0.150	161 546 771	1	0.150
20	15	16	185	161 546 762	1	0.149	161 546 772	1	0.151
25	20	16	350	161 546 763	1	0.220	161 546 773	1	0.220
32	25	16	700	161 546 764	1	0.310	161 546 774	1	0.329
40	32	16	1000	161 546 765	1	0.550	161 546 775	1	0.550
50	40	16	1600	161 546 766	1	0.750	161 546 776	1	0.750
63	50	16	3100	161 546 767	1	1.360	161 546 777	1	1.360

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	closest inch [inch]
16	50	57	27	12	93	77	56	25	32	45	M6	67	3/8
20	50	57	27	12	95	77	56	25	32	45	M6	66	1/2
25	58	67	30	12	108	97	65	25	39	58	M6	77	3/4
32	68	73	36	12	119	97	71	25	39	58	M6	83	1
40	84	90	44	15	137	128	85	45	54	74	M8	99	1 1/4
50	97	97	51	15	147	128	89	45	54	74	M8	105	1 1/2
63	124	116	64	15	168	152	101	45	66	87	M8	113	2



DN10/15 - 50



Ball valve type 546 PVC-U With mounting inserts With butt fusion spigots PE100 SDR11 metric

Model:

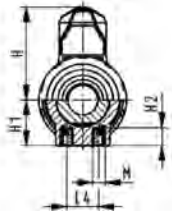
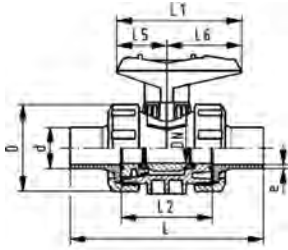
- Material: PVC-U/PE
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
20	15	16	185	161 546 782	1	0.151	161 546 792	1	0.153
25	20	16	350	161 546 783	1	0.231	161 546 793	1	0.220
32	25	16	700	161 546 784	1	0.329	161 546 794	1	0.333
40	32	16	1000	161 546 785	1	0.583	161 546 795	1	0.586
50	40	16	1600	161 546 786	1	0.817	161 546 796	1	0.826
63	50	16	3100	161 546 787	1	1.505	161 546 797	1	1.517

table continued next page



PF 2 31 546 801

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	e [mm]	closest inch [inch]	
20	50	57	27	12	130	77	56	25	32	45	M6	1,9	1/8	
25	58	67	30	12	134	97	65	25	39	58	M6	2,3	3/16	
32	68	73	36	12	150	97	71	25	39	58	M6	2,9	1	
40	84	90	44	15	171	128	85	45	54	74	M8	3,7	1 1/4	
50	97	97	51	15	191	128	89	45	54	74	M8	4,6	1 1/2	
63	124	116	64	15	220	152	101	45	66	87	M8	5,8	2	



DN10/15 - 50



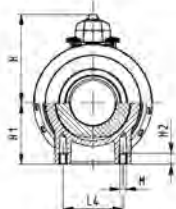
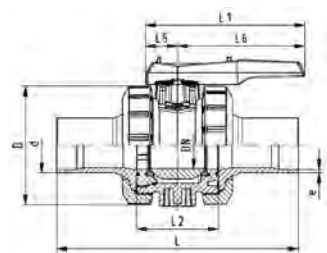
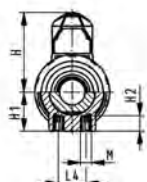
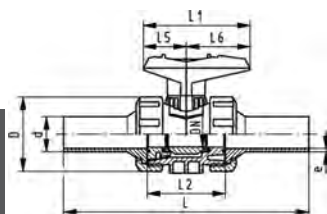
Ball valve type 546 PVC-U With mounting inserts With butt fusion spigots long PE100 SDR11 metric

Model:

- Material: PVC-U/PE
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



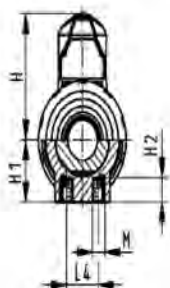
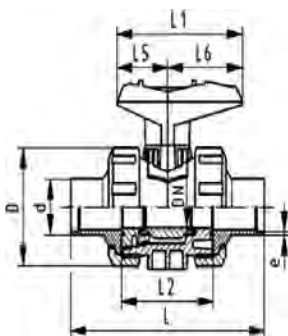
d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
20	15	16	185	161 546 822	2 31 546 801	1	0.162
25	20	16	350	161 546 823	2 31 546 801	1	0.248
32	25	16	700	161 546 824	2 31 546 801	1	0.362
40	32	16	1000	161 546 825	2 31 546 801	1	0.550
50	40	16	1600	161 546 826	2 31 546 801	1	0.886
63	50	16	3100	161 546 827	2 31 546 801	1	1.630
75	65	16	5000	161 546 828	2 31 546 601	1	3.651
90	80	16	7000	161 546 829	2 31 546 601	1	7.500
110	100	16	11000	161 546 830	2 31 546 601	1	8.860

d [mm]	FPM Code	PF	SP	Weight [kg]
20	161 546 832	2 31 546 801	1	0.150
25	161 546 833	2 31 546 801	1	0.220
32	161 546 834	2 31 546 801	1	0.310
40	161 546 835	2 31 546 801	1	0.550
50	161 546 836	2 31 546 801	1	0.750
63	161 546 837	2 31 546 801	1	1.360
75	161 546 838	2 31 546 601	1	5.000
90	161 546 839	2 31 546 601	1	7.500
110	161 546 840	2 31 546 601	1	11.800

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	e [mm]	closest inch [inch]
20	50	57	27	12	193	77	56	25	32	45	M6	2,25	1/2
25	58	67	30	12	216	97	65	25	39	58	M6	2,3	3/4
32	68	73	36	12	223	97	71	25	39	58	M6	2,9	1
40	84	90	44	15	249	128	85	45	54	74	M8	3,7	1 1/4
50	97	97	51	15	271	128	89	45	54	74	M8	4,6	1 1/2
63	124	116	64	15	321	152	101	45	66	87	M8	5,8	2
75	166	149	85	15	386	270	136	70	64	206	M8	6,8	2 1/2
90	200	161	105	15	421	270	141	70	64	206	M8	8,2	3
110	238	178	123	22	484	320	164	120	64	256	M12	10,0	4



DN10/15 - 50



PF 2 31 546 801

Ball valve type 546 PVC-U With mounting inserts With butt fusion spigots PE100 SDR17.6 metric

Model:

- Material: PVC-U/PE
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

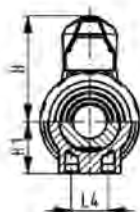
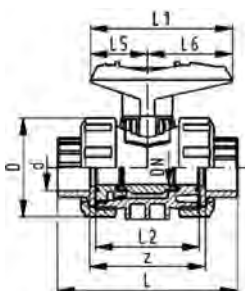
d [mm]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
40	32	10	1000	161 546 805	1	0.582	161 546 815	1	0.550
50	40	10	1600	161 546 806	1	0.750	161 546 816	1	0.750
63	50	10	3100	161 546 807	1	1.605	161 546 817	1	1.501

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	e [mm]	closest inch [inch]
40	84	90	44	15	171	128	85	45	54	74	M8	2,3	1 ¼
50	97	97	51	15	191	128	89	45	54	74	M8	2,9	1 ½
63	124	116	64	15	220	152	101	45	66	87	M8	3,6	2

UPVC Metric



DN10/15 - 50



Ball valve type 546 PVC-U With fusion sockets PE100 metric

Model:

- Material: PVC-U/PE
- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346

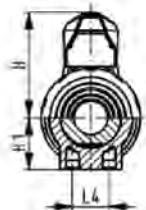
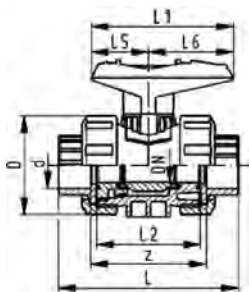
Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d [mm]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
16	10	16	71	800 000 101	1	0.160	800 000 111	1	0.170
20	15	16	185	800 000 102	1	0.170	800 000 112	1	0.170
25	20	16	350	800 000 103	1	0.240	800 000 113	1	0.240
32	25	16	700	800 000 104	1	0.350	800 000 114	1	0.340
40	32	16	1000	800 000 105	1	0.610	800 000 115	1	0.610
50	40	16	1600	800 000 106	1	0.840	800 000 116	1	0.850
63	50	16	3100	800 000 107	1	1.560	800 000 117	1	1.550

d [mm]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	z [mm]	closest inch [inch]
16	50	57	27	93	77	56	25	32	45	67	¾
20	50	57	27	95	77	56	25	32	45	66	½
25	58	67	30	108	97	65	25	39	58	77	¾

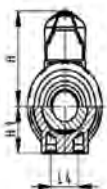
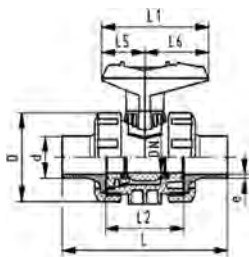
table continued next page



PF 2 31 546 801



DN10/15 - 50



PF 2 31 546 801

d [mm]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	z [mm]	closest inch [inch]	
32	68	73	36	119	97	71	25	39	58	83	1	
40	84	90	44	137	128	85	45	54	74	99	1 ¼	
50	97	97	51	147	128	89	45	54	74	105	1 ½	
63	124	116	64	168	152	101	45	66	87	113	2	

Ball valve type 546 PVC-U With butt fusion spigots PE100 SDR11 metric

Model:

- Material: PVC-U/PE
- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
20	15	16	185	800 000 142	1	0.116	800 000 152	1	0.160	
25	20	16	350	800 000 143	1	0.227	800 000 153	1	0.240	
32	25	16	700	800 000 144	1	0.340	800 000 154	1	0.340	
40	32	16	1000	800 000 145	1	0.600	800 000 155	1	0.600	
50	40	16	1600	800 000 146	1	0.830	800 000 156	1	0.830	
63	50	16	3100	800 000 147	1	1.560	800 000 157	1	1.560	

d [mm]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	e [mm]	closest inch [inch]	
20	50	57	27	130	77	56	25	32	45	1,9	½	
25	58	67	30	134	97	65	25	39	58	2,3	¾	
32	68	73	36	150	97	71	25	39	58	3	1	
40	84	90	44	171	128	85	45	54	74	3,7	1 ¼	
50	97	97	51	191	128	89	45	54	74	4,6	1 ½	
63	124	116	64	220	152	101	45	66	87	5,8	2	



DN10/15 - 50



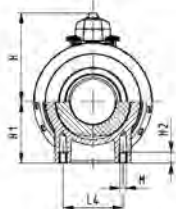
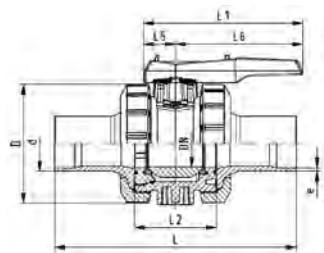
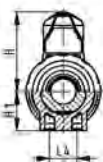
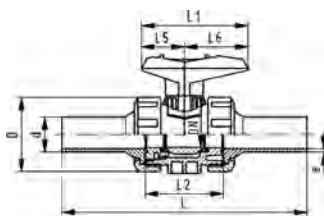
Ball valve type 546 PVC-U With butt fusion spigots long PE100 SDR11 metric

Model:

- Material: PVC-U/PE
- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



d [mm]	DN [mm]	kv-value ($\Delta p=1$ bar) [l/min]	PN [bar]	EPDM Code	PF	FPM Code	PF	Weight [kg]
20	15	185	16	800 000 282	2 31 546 801	800 000 292	2 31 546 801	0.170
25	20	350	16	800 000 283	2 31 546 801	800 000 293	2 31 546 801	0.250
32	25	700	16	800 000 284	2 31 546 801	800 000 294	2 31 546 801	0.370
40	32	1000	16	800 000 285	2 31 546 801	800 000 295	2 31 546 801	0.640
50	40	1600	16	800 000 286	2 31 546 801	800 000 296	2 31 546 801	0.910
63	50	3100	16	800 000 287	2 31 546 801	800 000 297	2 31 546 801	1.634
75	65	5000	16	800 000 288	2 31 546 601	800 000 298	2 31 546 601	5.000
90	80	7000	16	800 000 289	2 31 546 601	800 000 299	2 31 546 601	7.500
110	100	11000	16	800 000 290	2 31 546 601	800 000 300	2 31 546 601	11.800

d [mm]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	e [mm]	closest inch [inch]
20	50	57	27	193	77	56	25	32	45	2,25	1/2
25	58	67	30	216	97	65	25	39	58	2,3	3/4
32	68	73	36	223	97	71	25	39	58	3	1
40	84	90	44	249	128	85	45	54	74	3,7	1 1/4
50	97	97	51	271	128	89	45	54	74	4,6	1 1/2
63	124	116	64	321	152	101	45	66	87	5,8	2
75	166	149	85	386	270	136	70	64	206	6,8	2 1/2
90	200	161	105	421	270	141	70	64	206	8,2	3
110	238	178	123	484	320	164	120	64	256	10	4



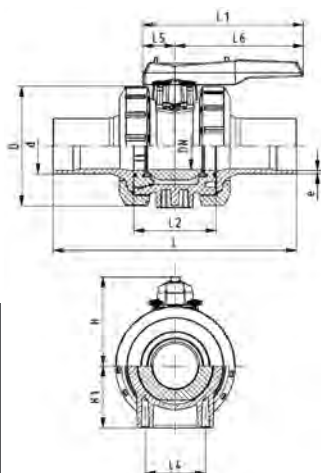
Ball valve type 546 PVC-U With butt fusion spigots long PE100 SDR17.6 metric

Model:

- Material: PVC-U/PE
- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Image and drawing DN65-100 please see "**New product ball valve DN65-100**"

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



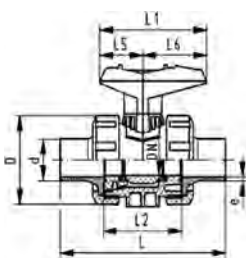
d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	Weight [kg]	
75	65	16	5000	800 000 218	800 000 228	5.000	
90	80	16	7000	800 000 219	800 000 229	7.400	
110	100	16	11000	800 000 220	800 000 230	11.700	

d [mm]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	e [mm]	closest inch [inch]	
75	166	149	85	386	270	136	70	64	206	4.3	2 ½	
90	200	161	105	421	270	141	70	64	206	5.1	3	
110	238	178	123	484	320	164	120	64	256	6.3	4	

PF 2 31 546 601



DN10/15 - 50



Ball valve type 546 PVC-U With butt fusion spigots PE100 SDR17.6 metric

Model:

- Material: PVC-U/PE
- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
40	32	10	1000	800 000 125	1	0.600	800 000 135	1	0.600	
50	40	10	1600	800 000 126	1	0.830	800 000 136	1	0.830	
63	50	10	3100	800 000 127	1	1.560	800 000 137	1	1.560	

d [mm]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	e [mm]	closest inch [inch]	
40	84	90	44	171	128	85	45	54	74	2,3	1 ¼	
50	97	97	51	191	128	89	45	54	74	2,9	1 ½	
63	124	116	64	220	152	101	45	66	87	3,6	2	

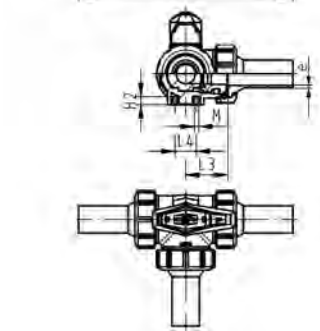
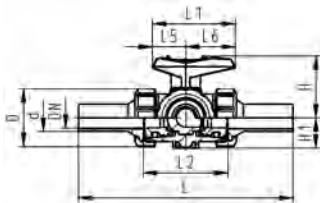
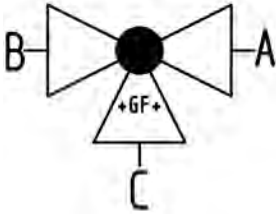
PF 2 31 546 801



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

Model:

- Material: PVC-U/PE
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme



d [mm]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
20	15	10	75	161 543 462	1	0.254	161 543 472	1	0.254	
25	20	10	150	161 543 463	1	0.370	161 543 473	1	0.370	
32	25	10	280	161 543 464	1	0.563	161 543 474	1	0.563	
40	32	10	480	161 543 465	1	0.953	161 543 475	1	0.953	
50	40	10	620	161 543 466	1	1.444	161 543 476	1	1.444	
63	50	10	1230	161 543 467	1	3.141	161 543 477	1	3.141	

d [mm]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	H [mm]	H1 [mm]	H2 [mm]	M	e [mm]	closest inch [inch]	
20	50	210	77	73	36	25	32	45	57	28	8	6	2	1/2	
25	58	237	97	86	43	25	39	58	67	32	8	6	2	3/4	
32	68	251	97	99	50	25	39	58	73	36	8	6	3	1	
40	84	283	128	120	60	45	54	74	90	45	9	8	4	1 1/4	
50	97	319	128	137	69	45	54	74	97	51	9	8	5	1 1/2	
63	124	399	152	179	89	45	66	87	116	65	9	8	6	2	

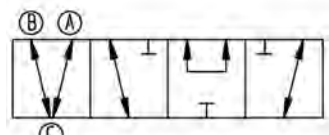
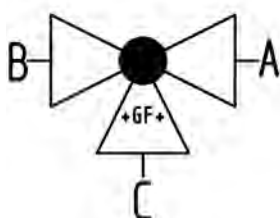
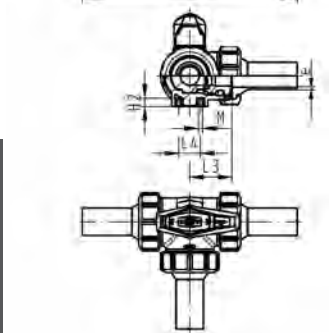
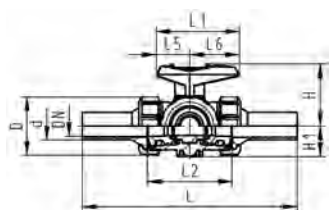
PF 2 31 001 801



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

Model:

- Material: PVC-U/PE
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme



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

d [mm]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	H [mm]	H1 [mm]	H2 [mm]	M	e [mm]	closest inch [inch]
20	50	210	77	73	36	25	32	45	57	28	8	6	2	1/2
25	58	237	97	86	43	25	39	58	67	32	8	6	2	3/4
32	68	251	97	99	50	25	39	58	73	36	8	6	3	1
40	84	283	128	120	60	45	54	74	90	45	9	8	4	1 1/4
50	97	319	128	137	69	45	54	74	97	51	9	8	5	1 1/2
63	124	399	152	179	89	45	66	87	116	65	9	8	6	2

PF 2 31 001 801



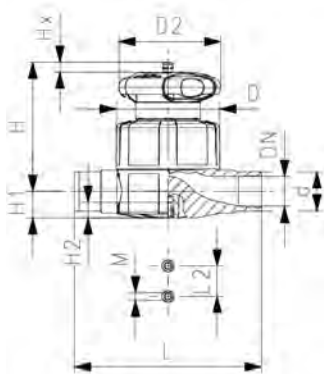
Diaphragm valve type 515 PVC-U With solvent cement spigots metric

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Overall length EN 558

Option:

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



d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	NBR Code	SP	Weight [kg]	EPDM Code	SP	Weight [kg]
20	15	10	125	161 515 002	1	0.335	161 515 012	1	0.240
25	20	10	271	161 515 003	1	0.444	161 515 013	1	0.444
32	25	10	481	161 515 004	1	0.565	161 515 014	1	0.568
40	32	10	759	161 515 005	1	1.237	161 515 015	1	1.237
50	40	10	1263	161 515 006	1	1.363	161 515 016	1	1.364
63	50	10	1728	161 515 007	1	2.963	161 515 017	1	2.248

d [mm]	PTFE/EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
20	161 515 032	1	0.238	161 515 062	1	0.243
25	161 515 033	1	0.456	161 515 063	1	0.444
32	161 515 034	1	0.575	161 515 064	1	1.032
40	161 515 035	1	1.257	161 515 065	1	0.785
50	161 515 036	1	2.292	161 515 066	1	2.262
63	161 515 037	1	2.097	161 515 067	1	2.963

d [mm]	D [mm]	D2 [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L2 [mm]	M	Lift = Hx [mm]	closest inch [inch]
20	65	65	73	14	12	124	25	M6	7	½
25	80	65	81	18	12	144	25	M6	10	¾
32	88	87	107	22	12	154	25	M6	13	1
40	101	87	115	26	15	174	45	M8	15	1 ¼
50	117	135	148	32	15	194	45	M8	19	1 ½
63	144	135	166	39	15	224	45	M8	25	2

PF 2 31 780 010



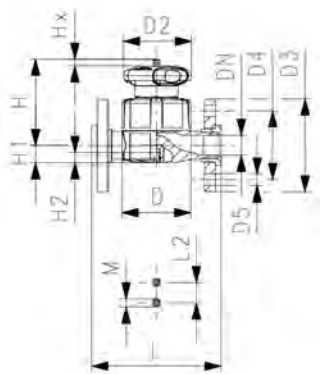
Diaphragm valve type 517 PVC-U With backing flanges PVC-U metric/BS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches

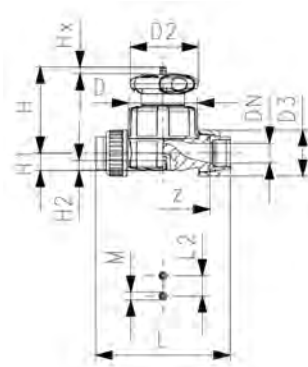


d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	NBR Code	SP	Weight [kg]	EPDM Code	SP	Weight [kg]
20	15	10	125	161 517 002	1	0.493	161 517 012	1	0.395
25	20	10	271	161 517 003	1	0.660	161 517 013	1	0.558
32	25	10	481	161 517 004	1	1.344	161 517 014	1	0.887
40	32	10	759	161 517 005	1	1.352	161 517 015	1	1.230
50	40	10	1263	161 517 006	1	2.868	161 517 016	1	1.962
63	50	10	1728	161 517 007	1	3.789	161 517 017	1	2.893

d [mm]	PTFE/EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
20	161 517 032	1	0.503	161 517 062	1	0.493
25	161 517 033	1	0.672	161 517 063	1	0.660
32	161 517 034	1	1.364	161 517 064	1	0.895
40	161 517 035	1	1.247	161 517 065	1	1.352
50	161 517 036	1	1.992	161 517 066	1	2.868
63	161 517 037	1	2.939	161 517 067	1	2.943

d [mm]	D [mm]	D2 [mm]	D3 [mm]	D4 [mm]	D5 [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L2 [mm]	M	Lift = Hx [mm]	closest inch [inch]
20	65	65	95	65	14	73	14	12	130	25	M6	7	1/2
25	80	65	105	75	14	81	18	12	150	25	M6	10	3/4
32	88	87	115	85	14	107	22	12	160	25	M6	13	1
40	101	87	140	100	18	115	26	15	180	45	M8	15	1 1/4
50	117	135	150	110	18	148	32	15	200	45	M8	19	1 1/2
63	144	135	165	125	18	166	39	15	230	45	M8	25	2

PF 2 31 780 030



Diaphragm valve type 514 PVC-U With threaded sockets Rp

Model:

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

Option:

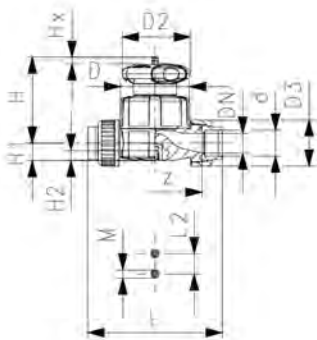
- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches
- PN16 available as a configuration

Rp [inch]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	NBR Code	SP	Weight [kg]	EPDM Code	SP	Weight [kg]
1/2	15	10	125	161 514 402	1	0.400	161 514 412	1	0.298
3/4	20	10	271	161 514 403	1	0.522	161 514 413	1	0.426
1	25	10	481	161 514 404	1	0.678	161 514 414	1	0.679
1 1/4	32	10	759	161 514 405	1	1.429	161 514 415	1	0.957
1 1/2	40	10	1263	161 514 406	1	2.528	161 514 416	1	1.654
2	50	10	1728	161 514 407	1	3.449	161 514 417	1	3.449

Rp [inch]	PTFE/EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
1/2	161 514 432	1	0.410	161 514 462	1	0.400
3/4	161 514 433	1	0.534	161 514 463	1	0.522
1	161 514 434	1	0.693	161 514 464	1	1.163
1 1/4	161 514 435	1	1.449	161 514 465	1	1.429
1 1/2	161 514 436	1	2.558	161 514 466	1	2.528
2	161 514 437	1	3.477	161 514 467	1	3.449

Rp [inch]	D [mm]	D2 [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L2 [mm]	M	z [mm]	Lift = Hx [mm]
1/2	65	65	43	73	14	12	128	25	M6	96	7
3/4	80	65	51	81	18	12	152	25	M6	114	10
1	88	87	58	107	22	12	166	25	M6	122	13
1 1/4	101	87	72	115	26	15	192	45	M8	140	15
1 1/2	117	135	83	148	32	15	222	45	M8	160	19
2	144	135	100	166	39	15	266	45	M8	190	25

PF 2 31 780 020



Diaphragm valve type 514 PVC-U With solvent cement sockets metric PN16

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Not recommended for oxidizing acids
- For easy installation and removal
- Short overall length

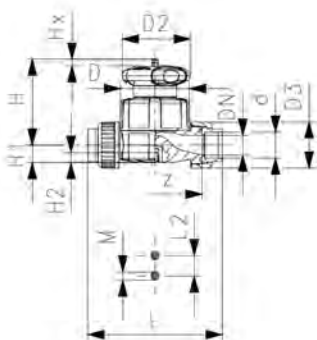
Option:

- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches

d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	PTFE/EPDM Code	SP	Weight [kg]
20	15	16	125	800 047 166	1	0.420	800 047 160	1	0.420
25	20	16	271	800 047 167	1	0.560	800 047 161	1	0.560
32	25	16	481	800 047 168	1	1.210	800 047 162	1	1.210
40	32	16	759	800 047 169	1	1.005	800 047 163	1	1.540
50	40	16	1263	800 047 170	1	1.706	800 047 164	1	2.680
63	50	16	1728	800 047 171	1	3.630	800 047 165	1	3.630

d [mm]	D [mm]	D2 [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L2 [mm]	M	z [mm]	Lift = Hx [mm]	closest inch [inch]
20	65	65	43	73	14	12	128	25	M6	96	7	1/2
25	80	65	51	81	18	12	152	25	M6	114	10	3/4
32	88	87	58	107	22	12	166	25	M6	122	13	1
40	101	87	72	115	26	15	192	45	M8	140	15	1 1/4
50	117	135	83	148	32	15	222	45	M8	160	19	1 1/2
63	144	135	100	166	39	15	266	45	M8	190	25	2

PF 2 31 780 020



Diaphragm valve type 514 PVC-U With solvent cement sockets metric

Model:

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

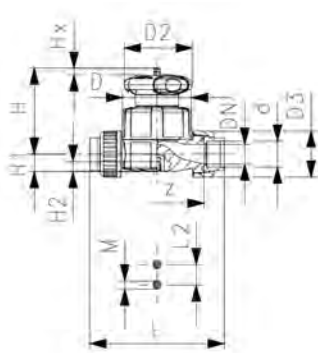
Option:

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

d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	NBR Code	SP	Weight [kg]	EPDM Code	SP	Weight [kg]
16	10	10	125	161 514 001	1	0.305	161 514 011	1	0.303
20	15	10	125	161 514 002	1	0.398	161 514 012	1	0.295
25	20	10	271	161 514 003	1	0.428	161 514 013	1	0.423
32	25	10	481	161 514 004	1	1.161	161 514 014	1	0.673
40	32	10	759	161 514 005	1	0.958	161 514 015	1	0.965
50	40	10	1263	161 514 006	1	1.625	161 514 016	1	1.624
63	50	10	1728	161 514 007	1	2.501	161 514 017	1	2.488

d [mm]	PTFE/EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	PTFE/FPM Code	SP	Weight [kg]
16	161 514 031	1	0.306	161 514 061	1	0.310	800 047 300	1	0.420
20	161 514 032	1	0.298	161 514 062	1	0.302	800 047 301	1	0.420
25	161 514 033	1	0.428	161 514 063	1	0.691	800 047 303	1	0.560

table continued next page



PF 2 31 780 020

d [mm]	PTFE/EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	PTFE/FPM Code	SP	Weight [kg]
32	161 514 034	1	1.181	161 514 064	1	0.691	800 047 304	1	1.210
40	161 514 035	1	0.977	161 514 065	1	0.982	800 047 306	1	1.540
50	161 514 036	1	1.658	161 514 066	1	2.516	800 047 308	1	2.680
63	161 514 037	1	2.547	161 514 067	1	2.546	800 047 309	1	2.581

d [mm]	D [mm]	D2 [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L2 [mm]	M	z [mm]	Lift = Hx [mm]	closest inch [inch]
16	65	65	43	73	14	12	170	25	M6	142	7	¾
20	65	65	43	73	14	12	128	25	M6	96	7	½
25	80	65	51	81	18	12	152	25	M6	114	10	¾
32	88	87	58	107	22	12	166	25	M6	122	13	1
40	101	87	72	115	26	15	192	45	M8	140	15	1 ¼
50	117	135	83	148	32	15	222	45	M8	160	19	1 ½
63	144	135	100	166	39	15	266	45	M8	190	25	2



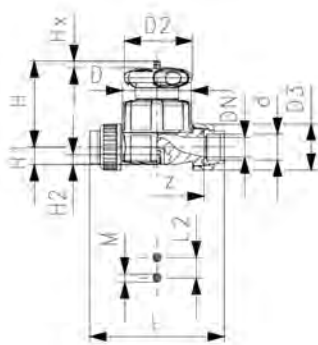
Diaphragm valve type 514 PVC-U With fusion sockets PE80 metric

Model:

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

Option:

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



d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]
20	15	10	125	161 514 212	1	0.290
25	20	10	271	161 514 213	1	0.416
32	25	10	481	161 514 214	1	0.662
40	32	10	759	161 514 215	1	1.405
50	40	10	1263	161 514 216	1	2.492
63	50	10	1728	161 514 217	1	3.331

d [mm]	D [mm]	D2 [mm]	D3 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	M	z [mm]	Lift = Hx [mm]	closest inch [inch]
20	65	65	43	128	25	73	14	12	M6	100	7	½
25	80	65	51	150	25	81	18	12	M6	118	10	¾
32	88	87	58	162	25	107	22	12	M6	126	13	1
40	101	87	72	184	45	115	26	15	M8	144	15	1 ¼
50	117	135	83	210	45	148	32	15	M8	164	19	1 ½
63	144	135	100	248	45	166	39	15	M8	194	25	2

PF 2 31 780 020



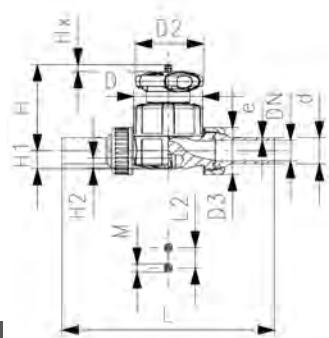
Diaphragm valve type 514 PVC-U With butt and electro fusion ends PE100 SDR11 metric

Model:

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

Option:

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



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

d [mm]	D [mm]	D2 [mm]	D3 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	M	Lift = Hx [mm]	e [mm]	closest inch [inch]	
20	65	65	43	196	25	73	14	12	M6	7	1,9	1/2	
25	80	65	51	221	25	81	18	12	M6	10	2,3	3/4	
32	88	87	58	234	25	107	22	12	M6	13	2,9	1	
40	101	87	72	260	45	115	26	15	M8	15	3,7	1 1/4	
50	117	135	83	284	45	148	32	15	M8	19	4,6	1 1/2	
63	144	135	100	321	45	166	39	15	M8	25	5,8	2	

PF 2 31 780 020



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

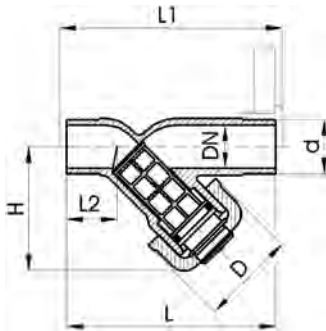
Model:

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



d [mm]	DN [mm]	PN [bar]	EPDM Code	PF	SP	Weight [kg]	
20	15	10	161 305 300	2 31 161 005	1	0.101	
25	20	10	161 305 350	2 31 161 005	1	0.141	
32	25	10	161 305 400	2 31 161 005	1	0.226	
40	32	10	161 305 450	2 31 161 005	1	0.348	
50	40	10	161 305 500	2 31 161 005	1	0.600	
63	50	10	161 305 550	2 31 161 005	1	0.985	
75	65	10	161 305 600	2 31 161 005	1	1.868	
90	80	10	161 305 650	2 31 161 005	1	2.590	

d [mm]	FPM Code	PF	SP	Weight [kg]	D [mm]	H [mm]	L [mm]	L1 [mm]	L2 [mm]	closest inch [inch]	
20	161 305 349	2 31 161 006	1	0.134	43	65	124	130	28	1/2	
25	161 305 399	2 31 161 006	1	0.215	47	76	144	150	37	3/4	
32	161 305 449	2 31 161 006	1	0.257	56	90	154	160	37	1	
40	161 305 499	2 31 161 006	1	0.386	64	104	174	180	44	1 1/4	
50	161 305 549	2 31 161 006	1	0.632	82	124	194	200	48	1 1/2	
63	161 305 599	2 31 161 006	1	1.045	95	148	224	230	60	2	
75	161 305 649	2 31 161 006	1	1.871	106	188	284	290	74	2 1/2	
90	161 305 699	2 31 161 006	1	2.585	120	205	300	310	85	3	



Line strainer type 305 PVC-U Transparent body with solvent cement spigots metric

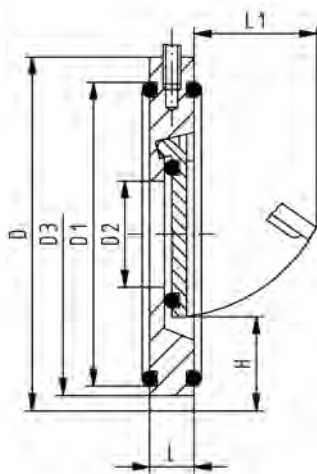
Model:

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

d [mm]	DN [mm]	PN [bar]	EPDM Code	PF	SP	Weight [kg]	
20	15	10	192 305 300	2 31 161 007	1	0.098	
25	20	10	192 305 350	2 31 161 007	1	0.143	
32	25	10	192 305 400	2 31 161 007	1	0.227	
40	32	10	192 305 450	2 31 161 007	1	0.342	
50	40	10	192 305 500	2 31 161 007	1	0.589	
63	50	10	192 305 550	2 31 161 007	1	0.968	
75	65	10	192 305 600	2 31 161 007	1	1.826	
90	80	10	192 305 650	2 31 161 007	1	2.548	

d [mm]	FPM Code	PF	SP	Weight [kg]	D [mm]	H [mm]	L [mm]	L1 [mm]	L2 [mm]	closest inch [inch]	
20	192 305 349	2 31 161 008	1	0.100	43	65	124	130	28	1 ½	
25	192 305 399	2 31 161 008	1	0.170	47	76	144	150	37	¾	
32	192 305 449	2 31 161 008	1	0.227	56	90	154	160	37	1	
40	192 305 499	2 31 161 008	1	0.346	64	104	174	180	44	1 ¼	
50	192 305 549	2 31 161 008	1	0.594	82	124	194	200	48	1 ½	
63	192 305 599	2 31 161 008	1	0.972	95	148	224	230	60	2	
75	192 305 649	2 31 161 008	1	1.838	106	188	284	290	74	2 ½	
90	192 305 699	2 31 161 008	1	2.565	120	205	300	310	85	3	

UPVC Metric



Wafer check valve type 369 PVC-U Without spring

Model:

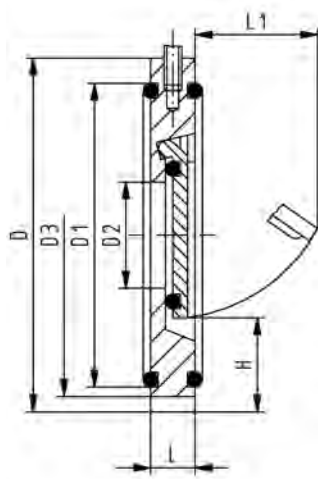
- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

Installation instruction:

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

d [mm]	Size [inch]	DN [mm]	PN [bar]	EPDM Code	PF	SP	Weight [kg]	
40	1 ¼	32	10	161 369 002	2 31 161 026	1	0.110	
50	1 ½	40	10	161 369 003	2 31 161 026	1	0.174	
63	2	50	10	161 369 004	2 31 161 026	1	0.273	
75	2 ½	65	10	161 369 005	2 31 161 026	1	0.352	
90	3	80	10	161 369 006	2 31 161 026	1	0.560	
110	4	100	10	161 369 007	2 31 161 026	1	0.651	
140	5	125	10	161 369 009	2 31 161 026	1	0.791	
160	6	150	6	161 369 010	2 31 161 026	1	1.153	
225	8	200	6	161 369 011	2 31 161 026	1	2.215	
280	10	250	6	161 369 012	2 31 161 026	1	3.850	
315	12	300	6	161 369 013	2 31 161 026	1	7.059	

table continued next page



d [mm]	FPM Code	PF	SP	Weight [kg]	
40	161 369 022	2 31 161 027	1	0.108	
50	161 369 023	2 31 161 027	1	0.202	
63	161 369 024	2 31 161 027	1	0.277	
75	161 369 025	2 31 161 027	1	0.386	
90	161 369 026	2 31 161 027	1	0.591	
110	161 369 027	2 31 161 027	1	0.667	
140	161 369 029	2 31 161 027	1	0.856	
160	161 369 030	2 31 161 027	1	1.207	
225	161 369 031	2 31 161 027	1	2.306	
280	161 369 032	2 31 161 027	1	3.915	
315	161 369 033	2 31 161 027	1	5.300	

d [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	L [mm]	L1 [mm]	Opening pressure vertical [mbar]	Opening pressure hor- izontal [mbar]	Minimum water col- umn for sealing [m]	
40	85	59	18	85	25	15	22	10	1	2	
50	105	74	22	95	27	16	27	10	1	2	
63	124	90	32	109	29	18	40	10	1	2	
75	137	110	40	129	31	20	55	10	1	2	
90	175	130	54	144	32	20	67	10	1	2	
110	175	150	70	164	31	23	67	10	1	2	
140	195	178	92	195	35	23	94	10	1	2	
160	222	192	105	220	41	26	100	10	1	2	
225	279	256	154	275	38	35	152	18	1	2	
280	340	306	192	330	41	40	180	18	1	2	
315	410	342	227	380	41	45	215	18	1	2	



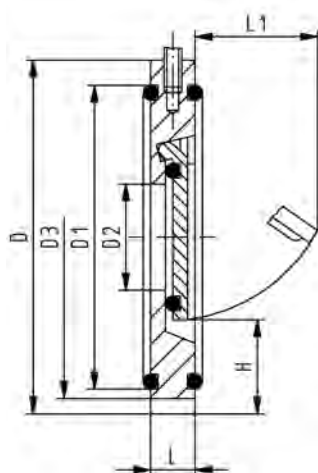
Wafer check valve type 369 PVC-U With Hastelloy C spring

Model:

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

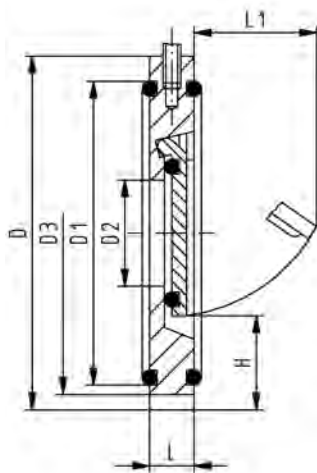
Installation instruction:

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



d [mm]	Size [inch]	DN [mm]	PN [bar]	EPDM Code	PF	SP	Weight [kg]	
40	1 ¼	32	10	161 369 082	2 31 161 026	1	0.130	
50	1 ½	40	10	161 369 083	2 31 161 026	1	0.174	
63	2	50	10	161 369 084	2 31 161 026	1	0.250	
75	2 ½	65	10	161 369 085	2 31 161 026	1	0.320	
90	3	80	10	161 369 086	2 31 161 026	1	0.390	
110	4	100	10	161 369 087	2 31 161 026	1	0.654	
140	5	125	10	161 369 089	2 31 161 026	1	0.750	
160	6	150	6	161 369 090	2 31 161 026	1	1.164	
225	8	200	6	161 369 091	2 31 161 026	1	2.100	
280	10	250	6	161 369 092	2 31 161 026	1	3.500	
315	12	300	6	161 369 093	2 31 161 026	1	5.300	

table continued next page



d [mm]	FPM Code	PF	SP	Weight [kg]
40	161 369 102	2 31 161 027	1	0.130
50	161 369 103	2 31 161 027	1	0.160
63	161 369 104	2 31 161 027	1	0.277
75	161 369 105	2 31 161 027	1	0.320
90	161 369 106	2 31 161 027	1	0.390
110	161 369 107	2 31 161 027	1	0.550
140	161 369 109	2 31 161 027	1	0.750
160	161 369 110	2 31 161 027	1	1.100
225	161 369 111	2 31 161 027	1	2.100
280	161 369 112	2 31 161 027	1	3.500
315	161 369 113	2 31 161 027	1	5.300

d [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	L [mm]	L1 [mm]	Opening pressure vertical [mbar]	Opening pressure hor- izontal [mbar]	Minimum water col- umn for sealing [m]
40	85	59	18	85	25	15	22	30	20	2
50	105	74	22	95	27	16	27	30	20	2
63	124	90	32	109	29	18	40	30	20	2
75	137	110	40	129	31	20	55	30	20	2
90	175	125	54	144	32	20	67	30	20	2
110	175	150	70	164	31	23	67	30	20	2
140	195	178	92	195	35	23	94	30	20	2
160	222	192	105	220	41	26	100	30	20	2
225	279	256	154	275	38	35	152	38	20	2
280	340	306	192	330	41	40	180	38	20	2
315	410	342	227	380	41	45	215	38	20	2

UPVC Metric



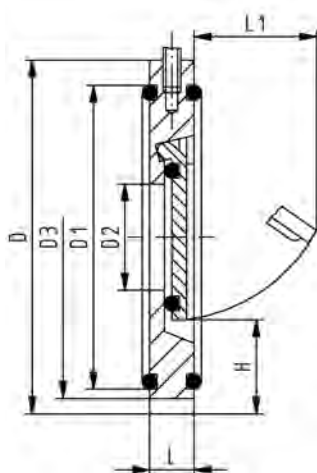
Wafer check valve type 369 PVC-U With V4A spring (stainless steel 316)

Model:

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

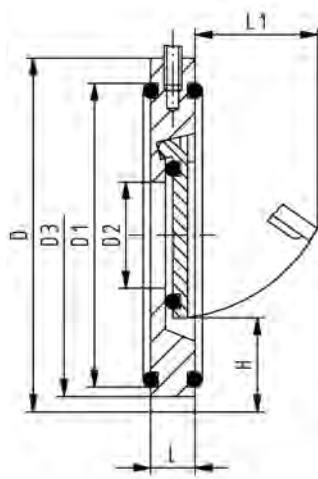
Installation instruction:

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



d [mm]	Size [inch]	DN [mm]	PN [bar]	EPDM Code	PF	SP	Weight [kg]
40	1 ¼	32	10	161 369 042	2 31 161 026	1	0.130
50	1 ½	40	10	161 369 043	2 31 161 026	1	0.160
63	2	50	10	161 369 044	2 31 161 026	1	0.273
75	2 ½	65	10	161 369 045	2 31 161 026	1	0.357
90	3	80	10	161 369 046	2 31 161 026	1	0.561
110	4	100	10	161 369 047	2 31 161 026	1	0.651
140	5	125	10	161 369 049	2 31 161 026	1	0.791
160	6	150	6	161 369 050	2 31 161 026	1	1.171
225	8	200	6	161 369 051	2 31 161 026	1	2.252
280	10	250	6	161 369 052	2 31 161 026	1	3.790
315	12	300	6	161 369 053	2 31 161 026	1	6.274

table continued next page



d [mm]	FPM Code	PF	SP	Weight [kg]	
40	161 369 062	2 31 161 027	1	0.107	
50	161 369 063	2 31 161 027	1	0.206	
63	161 369 064	2 31 161 027	1	0.250	
75	161 369 065	2 31 161 027	1	0.320	
90	161 369 066	2 31 161 027	1	0.390	
110	161 369 067	2 31 161 027	1	0.684	
140	161 369 069	2 31 161 027	1	0.750	
160	161 369 070	2 31 161 027	1	1.100	
225	161 369 071	2 31 161 027	1	2.100	
280	161 369 072	2 31 161 027	1	3.500	
315	161 369 073	2 31 161 027	1	5.300	

d [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	L [mm]	L1 [mm]	Opening pressure vertical [mbar]	Opening pressure hor- izontal [mbar]	Minimum water col- umn for sealing [m]	
40	85	59	18	85	25	15	22	30	20	2	
50	105	74	22	95	27	16	27	30	20	2	
63	124	90	32	109	29	18	40	30	20	2	
75	137	110	40	129	31	20	55	30	20	2	
90	175	125	54	144	32	20	67	30	20	2	
110	175	150	70	164	31	23	67	30	20	2	
140	195	178	92	195	35	23	94	30	20	2	
160	222	192	105	220	41	26	100	30	20	2	
225	279	256	154	275	38	35	152	38	20	2	
280	340	306	192	330	41	40	180	38	20	2	
315	410	342	227	380	41	45	215	38	20	2	

UPVC Metric

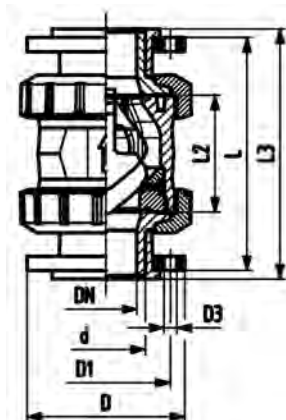
Check valve type 561 PVC-U With backing flanges PP-st metric

Model:

- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
75	65	10	2950	161 561 428	1	4.640	161 561 438	1	4.640	
90	80	10	3600	161 561 429	1	5.810	161 561 439	1	5.810	
110	100	10	4150	161 561 430	1	8.160	161 561 440	1	8.160	

d [mm]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	closest inch [inch]	
75	166	149	85	284	270	136	290	70	64	206	1 ¼	
90	200	161	105	300	270	141	310	70	64	206	1 ½	
110	238	178	123	340	320	164	350	120	64	256	2	



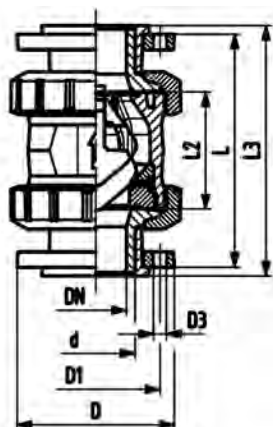
PF 2 31 986 211



Check valve type 561 PVC-U With backing flanges PVC-U metric

Model:

- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Overall length according to EN 558
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10



PF 2 31 986 211

d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
75	65	16	2950	161 561 408	1	4.440	161 561 418	1	4.450	
90	80	16	3600	161 561 409	1	6.740	161 561 419	1	6.770	
110	100	16	4150	161 561 410	1	10.280	161 561 420	1	10.320	

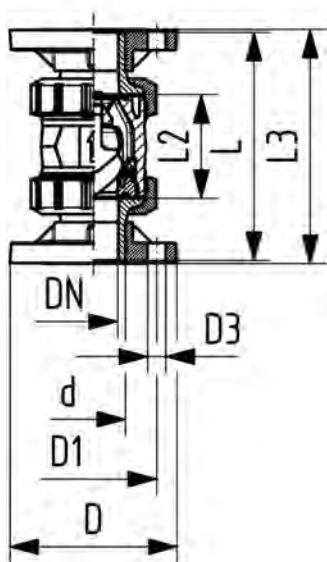
d [mm]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	closest inch [inch]	
75	166	149	85	284	270	136	70	64	206	M8	1 ¼	
90	200	161	105	300	270	141	70	64	206	M8	1 ½	
110	238	178	123	340	320	164	120	64	256	M12	2	



Check valve type 561 PVC-U With fixed flanges metric

Model:

- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Installation length according to EN 558-1
- Z-length, end connectors and union nuts **not** compatible with type 360
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10



PF 2 31 986 211

d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
20	15	16	180	161 561 082	1	0.330	161 561 092	1	0.330	
25	20	16	380	161 561 083	1	0.520	161 561 093	1	0.540	
32	25	16	460	161 561 084	1	0.670	161 561 094	1	0.670	
40	32	16	850	161 561 085	1	1.100	161 561 095	1	1.100	
50	40	16	1080	161 561 086	1	1.490	161 561 096	1	1.490	
63	50	16	1670	161 561 087	1	2.430	161 561 097	1	2.440	

d [mm]	D [mm]	D1 [mm]	D3 [mm]	L [mm]	L2 [mm]	L3 [mm]	closest inch [inch]	
20	95	65	14	124	56	130	½	
25	105	75	14	144	65	150	¾	
32	115	85	14	154	71	160	1	
40	140	100	18	174	85	180	1 ¼	
50	150	110	18	194	89	200	1 ½	
63	165	125	18	224	101	230	2	

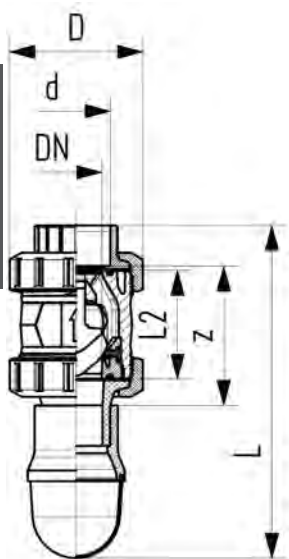


Foot valve type 561 PVC-U With solvent cement sockets metric

Model:

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

d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	D [mm]	L [mm]	L2 [mm]	z [mm]	closest inch [inch]
16	10	16	190	161 561 901	1	0.120	50	173	56	64	3/8
20	15	16	180	161 561 902	1	0.130	50	175	56	64	1/2
25	20	16	380	161 561 903	1	0.250	58	192	65	72	3/4
32	25	16	460	161 561 904	1	0.290	68	204	71	79	1
40	32	16	850	161 561 905	1	0.510	90	267	85	94	1 1/4
50	40	16	1080	161 561 906	1	0.750	90	282	83	95	1 1/2
63	50	16	1670	161 561 907	1	1.330	90	310	101	107	2



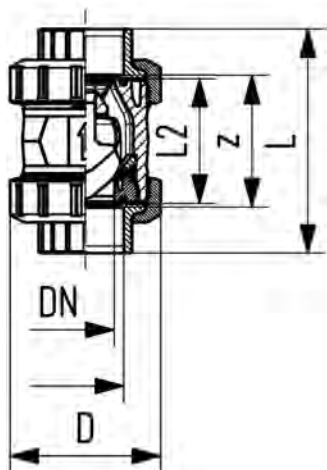
PF 2 31 986 999



Check valve type 561 PVC-U With threaded sockets Rp

Model:

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



Rp [inch]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
3/8	10	10	190	161 561 021	1	0.130	161 561 031	1	0.130
1/2	15	10	180	161 561 022	1	0.130	161 561 032	1	0.130
3/4	20	10	380	161 561 023	1	0.260	161 561 033	1	0.280
1	25	10	460	161 561 024	1	0.300	161 561 034	1	0.300
1 1/4	32	10	850	161 561 025	1	0.510	161 561 035	1	0.520
1 1/2	40	10	1080	161 561 026	1	0.780	161 561 036	1	0.790
2	50	10	1670	161 561 027	1	1.390	161 561 037	1	1.400
2 1/2	65	10	2950	161 561 028	1	3.800	161 561 038	1	3.820
3	80	10	3600	161 561 029	1	5.160	161 561 039	1	5.180
4	100	10	4150	161 561 030	1	8.140	161 561 040	1	8.180

Rp [inch]	D [mm]	L [mm]	L2 [mm]	z [mm]
3/8	50	95	56	69
1/2	50	100	56	67
3/4	58	114	65	78
1	68	127	71	85
1 1/4	84	146	85	100
1 1/2	97	152	89	106
2	124	177	101	121
2 1/2	166	233	136	144
3	200	254	141	151
4	238	301	164	174

PF 2 31 986 211

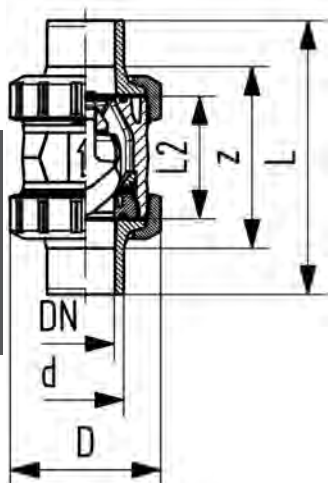


Check valve type 561 PVC-U With solvent cement spigots metric

Model:

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

d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
16	10	16	190	161 561 041	1	0.130	161 561 051	1	0.130
20	15	16	180	161 561 042	1	0.130	161 561 052	1	0.130
25	20	16	380	161 561 043	1	0.188	161 561 053	1	0.290
32	25	16	460	161 561 044	1	0.296	161 561 054	1	0.320
40	32	16	850	161 561 045	1	0.530	161 561 055	1	0.530
50	40	16	1080	161 561 046	1	0.762	161 561 056	1	0.810
63	50	16	1670	161 561 047	1	1.419	161 561 057	1	1.450
75	65	16	2950	161 561 048	1	3.370	161 561 058	1	3.380
90	80	16	3600	161 561 049	1	5.320	161 561 059	1	5.340
110	100	16	4150	161 561 050	1	8.500	161 561 060	1	8.540



d [mm]	D [mm]	L [mm]	L2 [mm]	closest inch [inch]
16	50	114	56	$\frac{3}{8}$
20	50	124	56	$\frac{1}{2}$
25	58	144	65	$\frac{3}{4}$
32	68	154	71	1
40	84	174	85	1 $\frac{1}{4}$
50	97	194	89	1 $\frac{1}{2}$
63	124	224	101	2
75	166	284	136	2 $\frac{1}{2}$
90	200	300	141	3
110	238	340	164	4

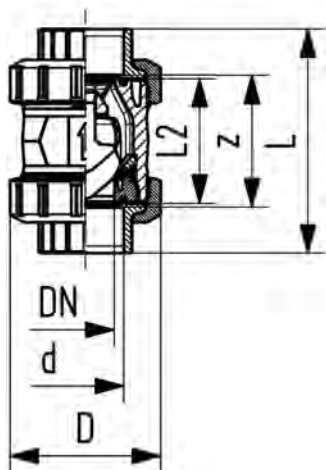
PF 2 31 986 211



Check valve type 561 PVC-U With solvent cement sockets metric

Model:

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



d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
16	10	16	190	161 561 001	1	0.119	161 561 011	1	0.120
20	15	16	180	161 561 002	1	0.117	161 561 012	1	0.119
25	20	16	380	161 561 003	1	0.182	161 561 013	1	0.181
32	25	16	460	161 561 004	1	0.281	161 561 014	1	0.285
40	32	16	850	161 561 005	1	0.480	161 561 015	1	0.488
50	40	16	1080	161 561 006	1	0.714	161 561 016	1	0.750
63	50	16	1670	161 561 007	1	1.344	161 561 017	1	1.376
75	65	16	2950	161 561 008	1	3.160	161 561 018	1	3.170
90	80	16	3600	161 561 009	1	5.040	161 561 019	1	5.060
110	100	16	4150	161 561 010	1	8.130	161 561 020	1	8.170

d [mm]	D [mm]	L [mm]	L2 [mm]	z [mm]	closest inch [inch]
16	50	92	56	64	$\frac{3}{8}$
20	50	95	56	64	$\frac{1}{2}$
25	58	110	65	72	$\frac{3}{4}$
32	68	123	71	79	1
40	84	146	85	94	1 $\frac{1}{4}$
50	97	157	89	95	1 $\frac{1}{2}$
63	124	183	101	107	2
75	166	233	136	144	2 $\frac{1}{2}$
90	200	254	141	151	3
110	238	301	164	174	4

PF 2 31 986 211

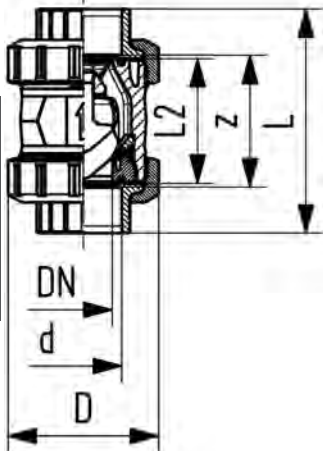


Check valve type 561 PVC-U With transparent housing With solvent cement sockets metric

Model:

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

d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	D [mm]	L [mm]	L2 [mm]	z [mm]	closest inch [inch]
32	25	16	460	192 561 004	1	0.290	68	123	71	79	1
63	50	16	1670	192 561 007	1	1.330	124	183	101	107	2



PF 2 31 986 211

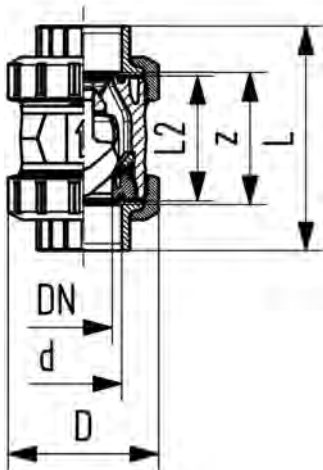


Check valve type 562 PVC-U With solvent cement sockets metric

Model:

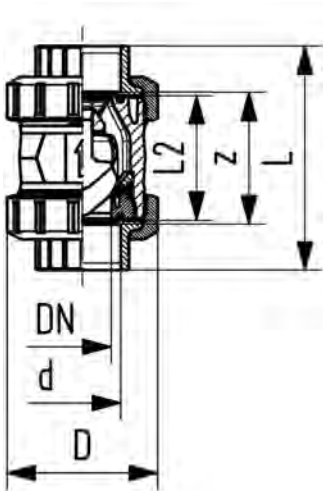
- For horizontal or vertical installation
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
16	10	16	190	161 562 001	1	0.120	161 562 011	1	0.120
20	15	16	180	161 562 002	1	0.130	161 562 012	1	0.130
25	20	16	380	161 562 003	1	0.250	161 562 013	1	0.270
32	25	16	460	161 562 004	1	0.290	161 562 014	1	0.290
40	32	16	850	161 562 005	1	0.510	161 562 015	1	0.510
50	40	16	1080	161 562 006	1	0.750	161 562 016	1	0.750
63	50	16	1670	161 562 007	1	1.330	161 562 017	1	1.340
75	65	16	2950	161 562 008	1	3.160	161 562 018	1	3.170
90	80	16	3600	161 562 009	1	5.040	161 562 019	1	5.060
110	100	16	4150	161 562 010	1	8.130	161 562 020	1	8.170



d [mm]	D [mm]	L [mm]	L2 [mm]	z [mm]	closest inch [inch]
16	50	92	56	64	3/8
20	50	95	56	64	1/2
25	58	110	65	72	3/4

table continued next page



PF 2 31 986 111

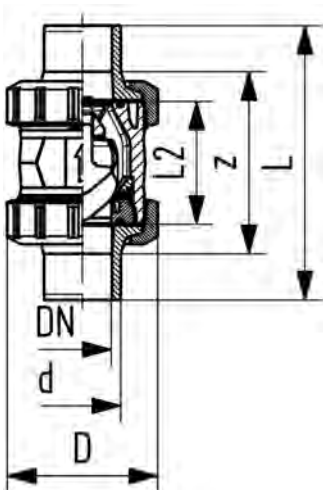
d [mm]	D [mm]	L [mm]	L2 [mm]	z [mm]	closest inch [inch]
32	68	123	71	79	1
40	84	146	85	94	1 ¼
50	97	157	89	95	1 ½
63	124	183	101	107	2
75	166	233	136	144	2 ½
90	200	254	141	151	3
110	238	301	164	174	4



Check valve type 562 PVC-U With solvent cement spigots metric

Model:

- For horizontal or vertical installation
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
16	10	16	190	161 562 041	1	0.130	161 562 051	1	0.130
20	15	16	180	161 562 042	1	0.130	161 562 052	1	0.130
25	20	16	380	161 562 043	1	0.270	161 562 053	1	0.290
32	25	16	460	161 562 044	1	0.320	161 562 054	1	0.320
40	32	16	850	161 562 045	1	0.530	161 562 055	1	0.530
50	40	16	1080	161 562 046	1	0.810	161 562 056	1	0.810
63	50	16	1670	161 562 047	1	1.450	161 562 057	1	1.450
75	65	16	2950	161 562 048	1	3.370	161 562 058	1	3.380
90	80	16	3600	161 562 049	1	5.320	161 562 059	1	5.340
110	100	16	4150	161 562 050	1	8.500	161 562 060	1	8.540

d [mm]	D [mm]	L [mm]	L2 [mm]	closest inch [inch]
16	50	114	56	¾
20	50	124	56	½
25	58	144	65	¾
32	68	154	71	1
40	84	174	85	1 ¼
50	97	194	89	1 ½
63	124	224	101	2
75	166	284	136	2 ½
90	200	300	141	3
110	238	340	164	4

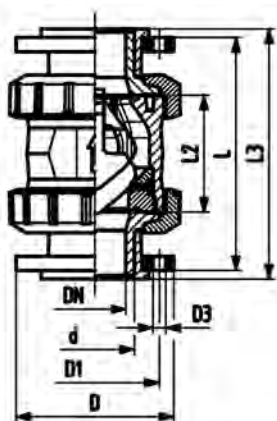
PF 2 31 986 111



Check valve type 562 PVC-U With backing flanges PP-st metric

Model:

- For horizontal or vertical installation
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501



d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
75	65	10	2950	161 562 428	1	6.220	161 562 438	1	6.230
90	80	10	3600	161 562 429	1	8.330	161 562 439	1	8.360
110	100	10	4150	161 562 430	1	12.300	161 562 440	1	12.340

d [mm]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	closest inch [inch]
75	166	149	85	284	270	136	290	70	64	206	1 ¼
90	200	161	105	300	270	141	310	70	64	206	1 ½
110	238	178	123	340	320	164	350	120	64	256	2

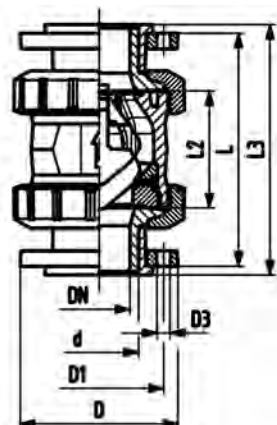
PF 2 31 986 111



Check valve type 562 PVC-U With backing flanges PVC-U metric

Model:

- For horizontal or vertical installation
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Overall length according to EN 558
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10



d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
75	65	16	2950	161 562 408	1	4.440	161 562 418	1	4.450
90	80	16	3600	161 562 409	1	6.740	161 562 419	1	6.770
110	100	16	4150	161 562 410	1	10.280	161 562 420	1	10.320

d [mm]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	closest inch [inch]
75	166	149	85	284	270	136	70	64	206	M8	1 ¼
90	200	161	105	300	270	141	70	64	206	M8	1 ½
110	238	178	123	340	320	164	120	64	256	M12	2

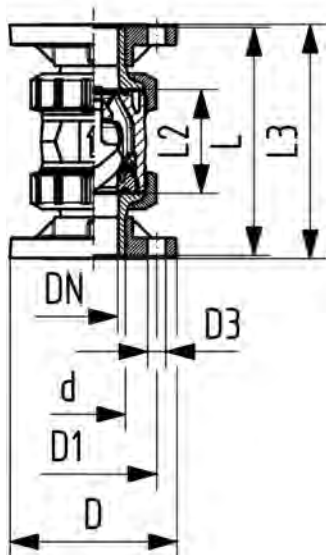
PF 2 31 986 111



Check valve type 562 PVC-U With fixed flanges metric

Model:

- For horizontal or vertical installation
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Installation length according to EN 558-1
- Z-length, end connectors and union nuts **not** compatible with type 360
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10



PF 2 31 986 111

d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
20	15	16	180	161 562 082	1	0.330	161 562 092	1	0.330
25	20	16	380	161 562 083	1	0.520	161 562 093	1	0.540
32	25	16	460	161 562 084	1	0.670	161 562 094	1	0.670
40	32	16	850	161 562 085	1	1.100	161 562 095	1	1.100
50	40	16	1080	161 562 086	1	1.490	161 562 096	1	1.490
63	50	16	1670	161 562 087	1	2.430	161 562 097	1	2.440

d [mm]	D [mm]	D1 [mm]	D3 [mm]	L [mm]	L2 [mm]	L3 [mm]	closest inch [inch]
20	95	65	14	124	56	130	½
25	105	75	14	144	65	150	¾
32	115	85	14	154	71	160	1
40	140	100	18	174	85	180	1 ¼
50	150	110	18	194	89	200	1 ½
63	165	125	18	224	101	230	2

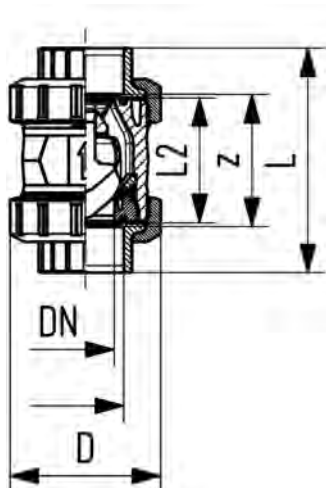
UPVC Metric



Check valve type 562 PVC-U With threaded sockets Rp

Model:

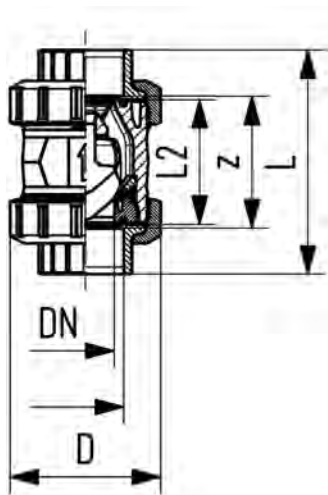
- For horizontal or vertical installation
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



Rp [inch]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
⅜	10	10	190	161 562 021	1	0.130	161 562 031	1	0.130
½	15	10	180	161 562 022	1	0.130	161 562 032	1	0.130
¾	20	10	380	161 562 023	1	0.260	161 562 033	1	0.280
1	25	10	460	161 562 024	1	0.300	161 562 034	1	0.300
1 ¼	32	10	850	161 562 025	1	0.510	161 562 035	1	0.520
1 ½	40	10	1080	161 562 026	1	0.780	161 562 036	1	0.790
2	50	10	1670	161 562 027	1	1.390	161 562 037	1	1.400
2 ½	65	10	2950	161 562 028	1	3.800	161 562 038	1	3.820
3	80	10	3600	161 562 029	1	5.160	161 562 039	1	5.180
4	100	10	4150	161 562 030	1	8.140	161 562 040	1	8.180

Rp [inch]	D [mm]	L [mm]	L2 [mm]	z [mm]
⅜	50	95	56	69
½	50	100	56	67
¾	58	114	65	78

table continued next page



PF 2 31 986 111

Rp [inch]	D [mm]	L [mm]	L2 [mm]	z [mm]	
1	68	127	71	85	
1 ¼	84	146	85	100	
1 ½	97	152	89	106	
2	124	177	101	121	
2 ½	166	233	136	144	
3	200	254	141	151	
4	238	301	164	174	

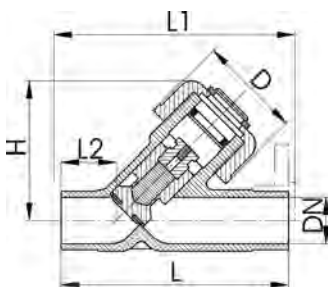
UPVC Metric



Angle seat check valve type 303 PVC-U With solvent cement spigots metric

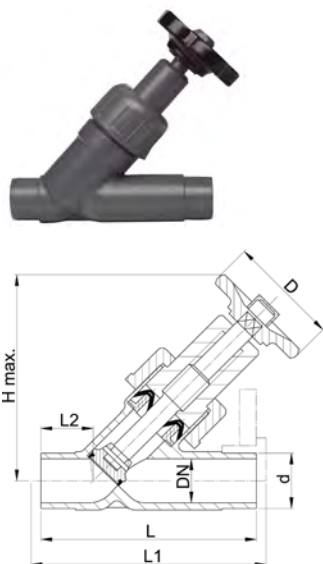
Model:

- For horizontal or vertical installation
- Leakproof from: EPDM 2m, FPM 3m water column
- Specific gravity of piston approx. 2 kg/dm³
- Overall length EN 558



d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PF	SP	Weight [kg]	
16	10	10	41	161 303 005	2 31 161 003	1	0.075	
20	15	10	95	161 303 006	2 31 161 003	1	0.113	
25	20	10	180	161 303 007	2 31 161 003	1	0.170	
32	25	10	327	161 303 008	2 31 161 003	1	0.288	
40	32	10	484	161 303 009	2 31 161 003	1	0.444	
50	40	10	725	161 303 010	2 31 161 003	1	0.791	
63	50	10	1130	161 303 011	2 31 161 003	1	1.345	
75	65	10	1700	161 303 012	2 31 161 003	1	2.483	
90	80	10	2500	161 303 013	2 31 161 003	1	3.514	

d [mm]	FPM Code	PF	SP	Weight [kg]	D [mm]	H [mm]	L [mm]	L1 [mm]	L2 [mm]	closest inch [inch]	
16	161 303 030	2 31 161 004	1	0.094	39	58	114	120	24	¾	
20	161 303 031	2 31 161 004	1	0.132	43	65	124	130	28	½	
25	161 303 032	2 31 161 004	1	0.172	47	75	144	150	37	¾	
32	161 303 033	2 31 161 004	1	0.290	56	90	154	160	37	1	
40	161 303 034	2 31 161 004	1	0.448	64	102	174	180	44	1 ¼	
50	161 303 035	2 31 161 004	1	0.798	82	123	194	200	48	1 ½	
63	161 303 036	2 31 161 004	1	1.345	95	144	224	230	60	2	
75	161 303 037	2 31 161 004	1	2.499	92	186	284	290	74	2 ½	
90	161 303 038	2 31 161 004	1	3.540	104	204	300	310	85	3	



Angle seat valve type 300 PVC-U With solvent cement spigots metric

Model:

- Overall length EN 558

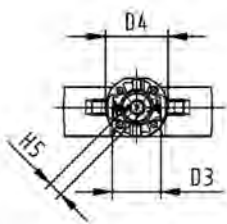
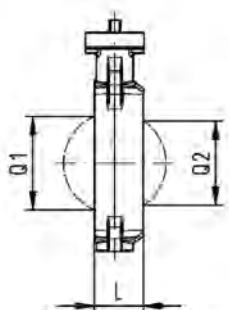
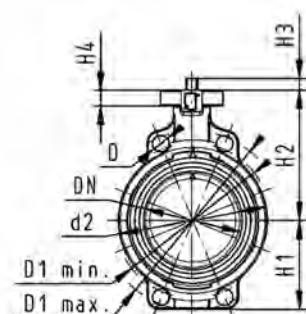
d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	PE Code	PF	SP	Weight [kg]	
16	10	10	41	161 300 250	2 31 160 001	1	0.125	
20	15	10	95	161 300 300	2 31 160 001	1	0.164	
25	20	10	180	161 300 350	2 31 160 001	1	0.223	
32	25	10	327	161 300 400	2 31 160 001	1	0.352	
40	32	10	484	161 300 450	2 31 160 001	1	0.534	
50	40	10	725	161 300 500	2 31 160 001	1	0.970	
63	50	10	1130	161 300 550	2 31 160 001	1	1.510	
75	65	10	1700	161 300 600	2 31 160 001	1	2.664	
90	80	10	2500	161 300 650	2 31 160 001	1	3.370	

d [mm]	PTFE Code	PF	SP	Weight [kg]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	closest inch [inch]	H max. [mm]	
16	161 300 299	2 31 160 002	1	0.128	50	114	120	24	¾	105	
20	161 300 349	2 31 160 002	1	0.168	63	124	130	28	½	126	
25	161 300 399	2 31 160 002	1	0.255	63	144	150	37	¾	140	
32	161 300 449	2 31 160 002	1	0.389	80	154	160	37	1	166	
40	161 300 499	2 31 160 002	1	0.590	80	174	180	44	1 ¼	191	
50	161 300 549	2 31 160 002	1	1.000	100	194	200	48	1 ½	233	
63	161 300 599	2 31 160 002	1	1.540	100	224	230	60	2	264	
75	161 300 649	2 31 160 002	1	2.713	160	284	290	74	2 ½	335	
90	161 300 699	2 31 160 002	1	4.097	200	300	310	85	3	390	

UPVC Metric



UPVC Metric



Butterfly valve type 567 PVC-U Bare shaft

Model:

- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Interface F07 for the dimensions DN50-200 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211
- Interface F12 for the Dimensions DN350-400 according to DIN/ISO 5211

d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
63	2	50	10	1470	161 567 802	1	0.778	161 567 822	1	0.787
75	2 ½	65	10	2200	161 567 803	1	0.921	161 567 823	1	0.895
90	3	80	10	3000	161 567 804	1	1.052	161 567 824	1	1.068
110	4	100	10	6500	161 567 805	1	1.641	161 567 825	1	2.092
140	5	125	10	11500	161 567 806	1	2.266	161 567 826	1	2.236
160	6	150	10	16600	161 567 807	1	3.179	161 567 827	1	3.238
225	8	200	10	39600	161 567 808	1	5.063	161 567 828	1	5.127
280	10	250	10	51000	161 567 809	1	11.588	161 567 829	1	11.735
315	12	300	10	73000	161 567 810	1	16.050	161 567 830	1	15.936
355	14	350	6	90000	161 567 811	1	45.000	161 567 831	1	45.000
400	16	400	6	115000	161 567 812	1	55.000	161 567 832	1	55.000

d [mm]	d2 [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	D3 [mm]	D4 [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	Q1 [mm]	Q2 [mm]
63	104	19	120	125	70	90	77	134	27	23	11	45	40	
75	115	19	140	145	70	90	83	140	27	23	11	46	54	35
90	131	19	150	160	70	90	89	146	27	23	11	49	67	50
110	161	19	175	191	70	90	104	167	16	23	14	56	88	74
140	187	23	210	216	70	90	117	181	16	23	14	64	113	97
160	215	24	241	241	70	90	130	189	19	23	17	72	139	123
225	267	23	290	295	70	90	158	210	19	23	17	73	178	169
280	329	25	353	362	102	125	205	264	40	23	22	113	210	207
315	379	25	400	432	102	125	228	285	40	23	22	113	256	253
355	535	29	445	477	125	180	268	410	31	100	27	129	325	305
400	593	29	510	540	125	180	300	435	31	100	27	169	353	350

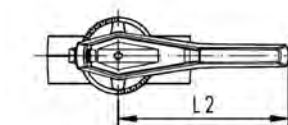
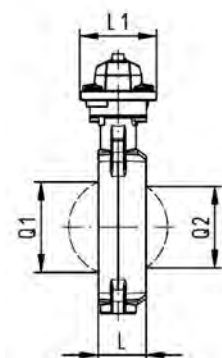
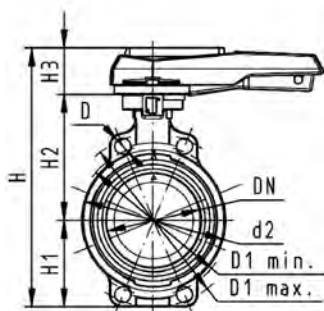
PF 2 31 567 998



Butterfly valve type 567 PVC-U Hand lever with ratchet settings

Model:

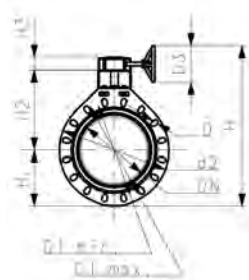
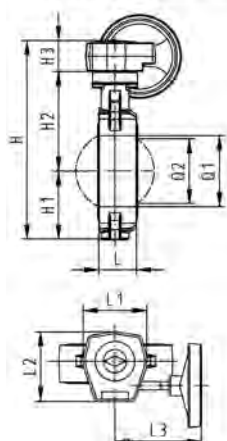
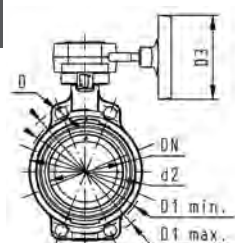
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum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



d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
63	2	50	10	1470	161 567 002	2 31 567 001	1	1.653
75	2 ½	65	10	2200	161 567 003	2 31 567 001	1	1.352
90	3	80	10	3000	161 567 004	2 31 567 001	1	1.515
110	4	100	10	6500	161 567 005	2 31 567 001	1	2.193
140	5	125	10	11500	161 567 006	2 31 567 001	1	2.536
160	6	150	10	16600	161 567 007	2 31 567 001	1	4.268
225	8	200	10	39600	161 567 008	2 31 567 001	1	6.481
280	10	250	10	55200	161 567 009	2 31 567 001	1	14.328
315	12	300	10	80000	161 567 010	2 31 567 001	1	18.899

d [mm]	FPM Code	PF	SP	Weight [kg]
63	161 567 022	2 31 567 002	1	1.259
75	161 567 023	2 31 567 002	1	1.799
90	161 567 024	2 31 567 002	1	1.534
110	161 567 025	2 31 567 002	1	2.235
140	161 567 026	2 31 567 002	1	2.799
160	161 567 027	2 31 567 002	1	3.791
225	161 567 028	2 31 567 002	1	6.570
280	161 567 029	2 31 567 002	1	12.998
315	161 567 030	2 31 567 002	1	19.139

d [mm]	d2 [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	104	19	120	125	264	77	134	54	45	106	205	40	
75	115	19	140	145	277	83	140	54	46	106	205	54	35
90	131	19	150	160	289	89	146	54	49	106	205	67	50
110	161	19	175	191	325	104	167	55	56	106	255	88	74
140	187	23	210	216	352	117	181	55	64	106	255	113	97
160	215	24	241	241	373	130	189	55	72	106	255	139	123
225	267	23	290	295	435	158	210	67	73	140	408	178	169
280	329	25	353	362	554	205	264	85	113	149	408	210	207
315	379	25	400	432	598	228	285	85	113	149	408	256	253



Butterfly valve type 567 PVC-U Reduction gear with handwheel

Model:

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

d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
63	2	50	10	1470	161 567 042	2 31 567 003	1	3.078
75	2 ½	65	10	2200	161 567 043	2 31 567 003	1	3.181
90	3	80	10	3000	161 567 044	2 31 567 003	1	3.346
110	4	100	10	6500	161 567 045	2 31 567 003	1	4.022
140	5	125	10	11500	161 567 046	2 31 567 003	1	4.185
160	6	150	10	16600	161 567 047	2 31 567 003	1	5.174
225	8	200	10	39600	161 567 048	2 31 567 003	1	7.072
280	10	250	10	51000	161 567 049	2 31 567 003	1	14.741
315	12	300	10	73000	161 567 050	2 31 567 003	1	19.254
355	14	350	6	90000	161 567 051	2 31 567 003	1	50.000
400	16	400	6	115000	161 567 052	2 31 567 003	1	60.000

d [mm]	FPM Code	PF	SP	Weight [kg]
63	161 567 062	2 31 567 004	1	3.082
75	161 567 063	2 31 567 004	1	3.186
90	161 567 064	2 31 567 004	1	3.353
110	161 567 065	2 31 567 004	1	3.973
140	161 567 066	2 31 567 004	1	4.544
160	161 567 067	2 31 567 004	1	5.181
225	161 567 068	2 31 567 004	1	8.339
280	161 567 069	2 31 567 004	1	15.115
315	161 567 070	2 31 567 004	1	35.000
355	161 567 071	2 31 567 004	1	55.000
400	161 567 072	2 31 567 004	1	60.000

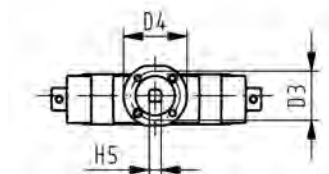
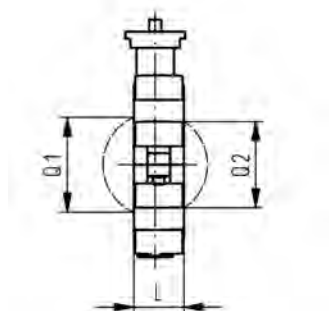
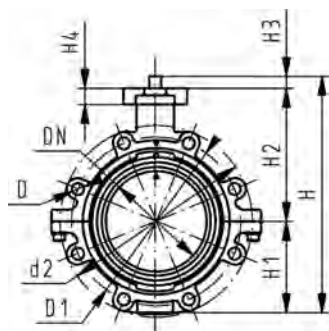
d [mm]	d2 [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	D3 [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	104	19	120	125	150	77	134	50	45	110	120	155	40	
75	115	19	140	145	150	83	140	50	46	110	120	155	54	35
90	131	19	150	160	150	89	146	50	49	110	120	155	67	50
110	160	19	175	191	150	104	167	50	56	110	120	155	88	74
140	187	23	210	216	150	117	181	50	64	110	120	155	113	97
160	215	24	241	241	150	130	189	50	72	110	120	155	139	123
225	267	23	290	295	150	158	210	50	73	110	120	155	178	169
280	329	25	353	362	200	205	264	55	113	130	140	200	210	207
315	379	25	400	432	200	228	285	55	113	130	140	200	256	253
355	535	29	445	477	200	268	410	69	129	180	168	218	325	305
400	595	29	510	540	200	300	435	69	169	180	195	218	353	350



Lugstyle butterfly valve type 568 PVC-U Bare shaft

Model:

- Outer body in GGG-40.3 epoxy-coated
- Overall length according to EN 558, ISO 5752
- Connecting dimension ANSI/ASME B 16.5 Class 150
- Interface F07 according to DIN/ISO 5211



Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
2	50	10	1470	161 568 902	1	2.908	161 568 922	1	2.908
2 ½	65	10	2200	161 568 903	0	3.262	161 568 923	1	3.262
3	80	10	3000	161 568 904	1	3.675	161 568 924	1	3.675
4	100	10	6500	161 568 905	1	6.264	161 568 925	1	5.797
5	125	10	11500	161 568 906	0	7.750	161 568 926	0	7.750
6	150	10	16600	161 568 907	1	10.772	161 568 927	1	9.754
8	200	10	39600	161 568 908	1	14.682	161 568 928	1	14.682

Size [inch]	d2 [mm]	D	D1 [mm]	D3 [mm]	D4 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	Q1 [mm]	Q2 [mm]
2	150	UNC 5/8	121	70	90	238	77	134	27	23	45	40	
2 ½	170	UNC 5/8	138	70	90	250	83	140	27	23	46	54	35
3	177	UNC 5/8	152	70	90	262	89	146	27	23	49	67	50
4	216	UNC 5/8	191	70	90	287	104	167	16	23	56	88	74
5	246	UNC 3/4	216	70	90	314	117	181	16	23	64	113	97
6	273	UNC 3/4	241	70	90	338	130	189	19	23	72	139	123
8	334	UNC 3/4	298	70	90	387	158	210	19	23	73	178	169

PF 2 31 568 998



Lugstyle butterfly valve type 568 PVC-U Hand lever with ratchet settings

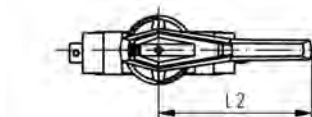
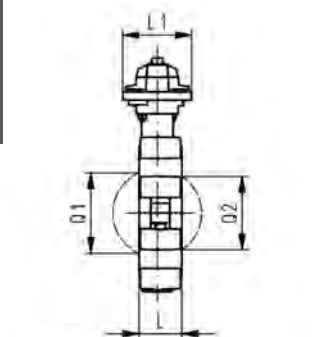
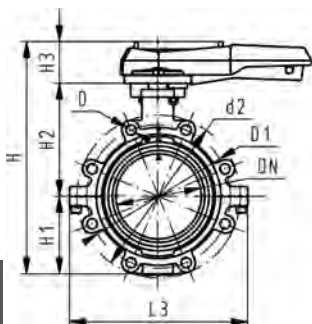
Model:

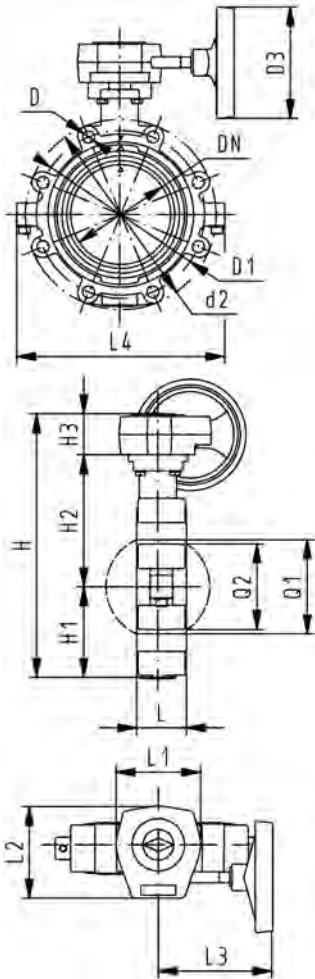
- Outer body in GGG-40.3 epoxy-coated
- Overall length according to EN 558, ISO 5752
- Connecting dimension ANSI/ASME B 16.5 Class 150

Size [inch]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
2	50	10	1470	161 568 102	2 31 568 001	1	3.443
2 ½	65	10	2200	161 568 103	2 31 568 001	1	4.235
3	80	10	3000	161 568 104	2 31 568 001	1	3.897
4	100	10	6500	161 568 105	2 31 568 001	1	6.719
5	125	10	11500	161 568 106	2 31 568 001	1	8.020
6	150	10	16600	161 568 107	2 31 568 001	1	10.024
8	200	10	39600	161 568 108	2 31 568 001	1	15.489

Size [inch]	FPM Code	PF	SP	Weight [kg]
2	161 568 122	2 31 568 002	1	3.130
2 ½	161 568 123	2 31 568 002	1	3.484
3	161 568 124	2 31 568 002	1	3.897
4	161 568 125	2 31 568 002	1	7.571
5	161 568 126	2 31 568 002	0	8.020
6	161 568 127	2 31 568 002	1	10.024
8	161 568 128	2 31 568 002	1	15.489

Size [inch]	d2 [mm]	D	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
2	150	UNC 5/8	121	265	77	134	54	45	106	205	150	40	
2 ½	170	UNC 5/8	138	277	83	140	54	46	106	205	160	54	35
3	177	UNC 5/8	152	289	89	146	54	49	106	205	175	67	50
4	216	UNC 5/8	191	326	104	167	55	56	106	255	244	88	74
5	246	UNC 3/4	216	353	117	181	55	64	106	255	272	113	97
6	273	UNC 3/4	241	374	130	189	55	72	106	255	297	139	123
8	334	UNC 3/4	298	435	158	210	67	73	140	408	360	178	169





Lugstyle butterfly valve type 568 PVC-U Reduction gear with handwheel

Model:

- Outer body in GGG-40.3 epoxy-coated
- Overall length according to EN 558, ISO 5752
- Connecting dimension ANSI/ASME B 16.5 Class 150

Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
2	50	10	1470	161 568 142	2 31 568 003	0	5.168
2 ½	65	10	2200	161 568 143	2 31 568 003	0	5.522
3	80	10	3000	161 568 144	2 31 568 003	0	5.935
4	100	10	6500	161 568 145	2 31 568 003	1	8.057
5	125	10	11500	161 568 146	2 31 568 003	0	10.010
6	150	10	16600	161 568 147	2 31 568 003	1	12.014
8	200	10	39600	161 568 148	2 31 568 003	1	16.942

Size [inch]	FPM Code	PF	SP	Weight [kg]
2	161 568 162	2 31 568 004	0	5.168
2 ½	161 568 163	2 31 568 004	0	5.522
3	161 568 164	2 31 568 004	0	5.935
4	161 568 165	2 31 568 004	0	8.057
5	161 568 166	2 31 568 004	0	10.010
6	161 568 167	2 31 568 004	1	12.014
8	161 568 168	2 31 568 004	1	16.942

Size [inch]	d2 [mm]	D	D1 [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	Q1 [mm]
2	150	UNC 5/8	121	150	279	77	134	50	45	110	120	155	150	40
2 ½	170	UNC 5/8	138	150	291	83	140	50	46	110	120	155	160	54
3	177	UNC 5/8	152	150	303	89	146	50	49	110	120	155	175	67
4	216	UNC 5/8	191	150	339	104	167	50	56	110	120	155	244	88
5	246	UNC 3/4	216	150	366	117	181	50	64	110	120	155	272	113
6	273	UNC 3/4	241	150	387	130	189	50	72	110	120	155	297	139
8	334	UNC 3/4	298	150	436	158	210	50	73	110	120	155	360	178

Size [inch]	Q2 [mm]
2	
2 ½	35
3	50
4	74
5	97
6	123
8	169

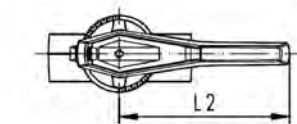
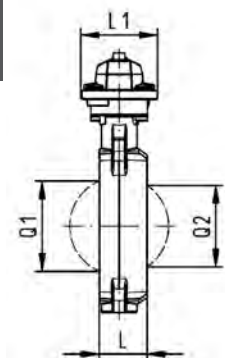
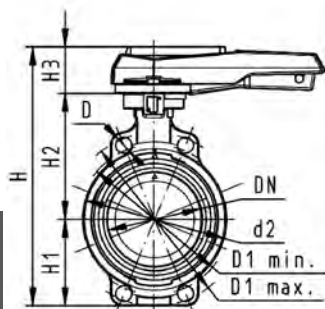
Butterfly valve type 563 PVC-U

Hand lever with ratchet settings

Blue handle and Body

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
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version



d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
63	2	50	10	1470	161 563 002	2 31 567 001	1	1.938
75	2 ½	65	10	2200	161 563 003	2 31 567 001	1	1.344
90	3	80	10	3000	161 563 004	2 31 567 001	1	1.515
110	4	100	10	6500	161 563 005	2 31 567 001	1	2.191
140	5	125	10	11500	161 563 006	2 31 567 001	1	2.747
160	6	150	10	16600	161 563 007	2 31 567 001	1	4.583
225	8	200	10	39600	161 563 008	2 31 567 001	1	6.476
280	10	250	10	55200	161 563 009	2 31 567 001	1	12.930
315	12	300	10	80000	161 563 010	2 31 567 001	1	18.000

d [mm]	FPM Code	PF	SP	Weight [kg]
63	161 563 022	2 31 567 002	1	1.044
75	161 563 023	2 31 567 002	1	1.365
90	161 563 024	2 31 567 002	1	1.315
110	161 563 025	2 31 567 002	1	2.232
140	161 563 026	2 31 567 002	1	2.794
160	161 563 027	2 31 567 002	1	3.564
225	161 563 028	2 31 567 002	1	8.411
280	161 563 029	2 31 567 002	1	14.982
315	161 563 030	2 31 567 002	1	16.757

d [mm]	d2 [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	104	19	120	125	264	77	134	54	45	106	205	40	
75	115	19	140	145	277	83	140	54	46	106	205	54	35
90	131	19	150	160	289	89	146	54	49	106	205	67	50
110	161	19	175	191	325	104	167	55	56	106	255	88	74
140	187	23	210	216	352	117	181	55	64	106	255	113	97
160	215	24	241	241	373	130	189	55	72	106	255	139	123
225	267	23	290	295	435	158	210	67	73	140	408	178	169
280	329	25	353	362	554	205	264	85	113	149	408	210	207
315	379	25	400	432	598	228	285	85	113	149	408	256	253

UPVC Accessories

Accessories and special parts

Accessories hand-operated valves

Angle seat valve bracket type 123 PVC-U

Model:

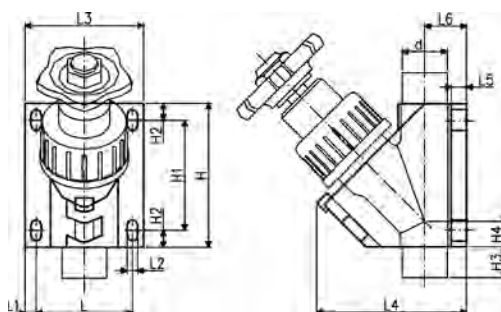
- Can be fitted to existing installations without interrupting their operation
- Easily assembled without tools

- For Angle Seat Valves Type 300



d [mm]	DN [mm]	Code	SP	Weight [kg]	
16	10	161 123 250	1	0.114	
20	15	161 123 300	10	0.146	
25	20	161 123 350	10	0.230	
32	25	161 123 400	5	0.289	
40	32	161 123 450	5	0.374	

d [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	closest inch [inch]	
16	76	55	11	15	9	62	8	7	78	67	10	22	¾	
20	86	65	11	17	11	65	9	7	82	74	10	25	½	
25	100	76	12	20	17	73	9	8	91	87	11	30	¾	
32	102	78	12	23	14	84	9	8	102	104	13	35	1	
40	116	85	16	27	17	90	9	8	107	122	15	42	1 ¼	



PF 2 31 160 997

Pipe clips ASTM/ANSI

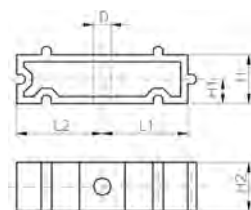
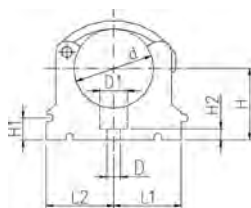
KLIP-IT pipe clip type 061 PP ASTM

Model:

- For inch pipes to ASTM/ANSI
- Material: Clip and safety clip PP black, UV resistant, bolts galvanized
- UV resistant
- **Minimum order quantity: standard packaging SP**

d [inch]	d [mm]	Code	PF	SP	Weight [kg]
1/4		167 061 054	2 30 162 029	10	0.003
3/8		167 061 055	2 30 162 029	10	0.007
1/2		167 061 056	2 30 162 029	10	0.007
3/4		167 061 057	2 30 162 029	10	0.008
1		167 061 058	2 30 162 029	10	0.009
1		167 061 059	2 30 162 029	10	0.012
1 1/2		167 061 060	2 30 162 029	10	0.022
2		167 061 061	2 30 162 029	10	0.030
2 1/2		167 061 112	2 30 162 029	10	0.062
3	90	167 061 013	2 30 162 023	10	0.092
4		167 061 114	2 30 162 023	10	0.114
5	140	167 061 016	2 30 162 023	10	0.224

D1 [mm]	D [mm]	L1 [mm]	L2 [mm]	closest inch [inch]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	SC
8	5	11	14		21	10	6	12	M5
10	6	14	17		23	10	6	16	M5
10	6	17	19		25	10	6	16	M5
10	6	19	22		28	10	6	16	M5
10	6	24	27		31	10	6	16	M5
14	7	34	34		35	10	7	22	M6
14	7	37	37		40	10	7	22	M6
17	9	45	45		52	10	10	25	M8
17	9	52	52		58	10	10	25	M8
17	9	65	65	3	65	10	10	28	M8
17	9	79	79		81	10	10	28	M8
17	9	98	98	5	110	10	10	32	M8



KLIP-IT spacer type 061 PP

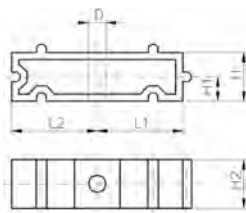
Model:

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

d [mm]	Inch [inch]	Code	Weight [kg]
10 - 12	1/8 - 1/4	167 061 153	0.003
16	3/8	167 061 155	0.005
20	1/2	167 061 156	0.005
25	3/4	167 061 157	0.007
32	1	167 061 158	0.006
40	1 1/4	167 061 159	0.015
50	1 1/2	167 061 160	0.017
63	2	167 061 161	0.020
75	2 1/2	167 061 162	0.027
90	3	167 061 163	0.039
110	4	167 061 164	0.048
140	5	167 061 166	0.065

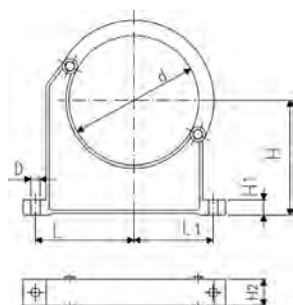
d [mm]	Inch [inch]	HoH +/- 2mm [mm]	D [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	SC
10 - 12	1/8 - 1/4	1	5	11	14	20	10	12	M4
16	3/8	17	6	14	17	20	10	16	M5
20	1/2	21	6	17	19	20	10	16	M5
25	3/4	27	6	19	22	20	10	16	M5
32	1	37	6	24	27	20	10	16	M5
40	1 1/4	44	7	34	34	20	10	22	M6
50	1 1/2	52	7	37	37	20	10	22	M6

table continued next page



PF 2 30 162 023

d [mm]	Inch [inch]	HoH +/- 2mm [mm]	D [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	SC	
63	2	67	9	45	45	20	10	25	M8	
75	2 ½	81	9	52	52	20	10	25	M8	
90	3	100	9	65	65	20	10	28	M8	
110	4	127	9	79	79	20	10	28	M8	
140	5	161	9	98	98	20	10	32	M8	



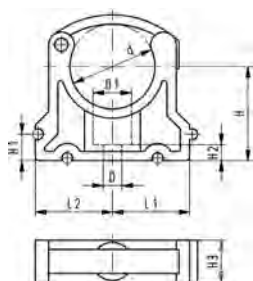
Pipe clip type 060 PP ASTM

Model:

- for ASTM/ANSI pipes 3" - 8"
- Material: Clip and safety clip PP black, UV resistant, bolts galvanized
- UV resistant
- Technical features: Accidental opening of the safety clip is not possible
- Accidental opening of the safety clip is not possible
- **Minimum order quantity: standard packaging SP or gross packaging GP**
- Clip and safety clip are not assembled in the packaging.

d [inch]	d [mm]	Code	PF	SP	GP	Weight [kg]	
3	90	167 060 038	2 30 162 023	10	40	0.144	
4		167 060 064	2 30 162 029	10	30	0.160	
5	140	167 060 041	2 30 162 023	10	20	0.260	
6		167 060 067	2 30 162 029	10	20	0.302	
8		167 060 070	2 30 162 029	5	0	0.514	

d [inch]	d [mm]	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	H2 [mm]	SC	closest inch [inch]	
3	90	9	89	71	105	15	33	M 8	3	
4		9	100	82	120	15	33	M 8		
5	140	11	121	98	130	20	35	M10	5	
6		11	136	111	148	25	35	M 10		
8		13	165	132	175	25	39	M 12		



KLIP-IT pipe clip type 061H PP BS/ASTM

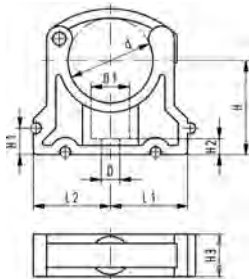
Model:

- **Minimum order quantity: standard packaging SP**
- 3/8" - 2": height designed for Ball Valve Type 546 and 543
- Material: PP black, UV resistant

d [inch]	Code	PF	SP	Weight [kg]	
¼	167 061 054	2 30 162 029	10	0.003	
⅜	167 061 085	2 30 162 023	10	0.006	
½	167 061 086	2 30 162 023	10	0.009	
¾	167 061 087	2 30 162 023	10	0.007	
1	167 061 088	2 30 162 023	10	0.012	
1 ¼	167 061 089	2 30 162 023	10	0.025	
1 ½	167 061 090	2 30 162 023	10	0.032	
2	167 061 091	2 30 162 023	10	0.052	
2 ½	167 061 112	2 30 162 029	10	0.062	
3	167 061 013	2 30 162 023	10	0.092	
4	167 061 114	2 30 162 023	10	0.114	
5	167 061 016	2 30 162 023	10	0.224	

d [inch]	d [mm]	D1 [mm]	D [mm]	L1 [mm]	L2 [mm]	H [mm]	closest inch [inch]	H1 [mm]	H2 [mm]	H3 [mm]	SC	
¼		8	5	11	14	21		10	6	12	M5	
⅜		10	6	14	17	27		10	6	16	M5	
½		10	6	17	19	27		10	6	16	M5	
¾		10	6	19	22	30		10	6	16	M5	
1		10	6	24	27	36		10	6	16	M5	
1 ¼		14	7	34	34	44		10	7	22	M6	
1 ½		14	7	37	37	51		10	7	22	M6	
2		17	9	45	45	64		10	10	25	M8	

table continued next page



d [inch]	d [mm]	D1 [mm]	D [mm]	L1 [mm]	L2 [mm]	H [mm]	closest inch [inch]	H1 [mm]	H2 [mm]	H3 [mm]	SC	
2 1/2		17	9	52	52	58		10	10	25	M8	
3	90	17	9	65	65	65	3	10	10	28	M8	
4		17	9	79	79	81		10	10	28	M8	
5	140	17	9	98	98	110	5	10	10	32	M8	

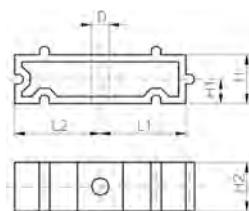
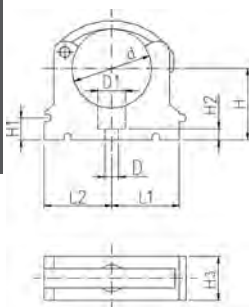
KLIP-IT pipe clip type 061 PP BS

Model:

- 3/8" - 2": height designed for Ball Valve Type 546 and 543
- Material: Clip and safety clip PP black, UV resistant, bolts galvanized
- **Minimum order quantity: standard packaging SP**

d [inch]	d [mm]	Code	PF	SP	Weight [kg]	
1/4		167 061 054	2 30 162 029	10	0.003	
3/8		167 061 055	2 30 162 029	10	0.007	
1/2		167 061 056	2 30 162 029	10	0.007	
3/4		167 061 057	2 30 162 029	10	0.008	
1		167 061 058	2 30 162 029	10	0.009	
1		167 061 059	2 30 162 029	10	0.012	
1 1/2		167 061 060	2 30 162 029	10	0.022	
2		167 061 061	2 30 162 029	10	0.030	
2 1/2	75	167 061 012	2 30 162 023	10	0.057	
3	90	167 061 013	2 30 162 023	10	0.092	
4		167 061 114	2 30 162 023	10	0.114	
5	140	167 061 016	2 30 162 023	10	0.224	

d [inch]	D1 [mm]	D [mm]	L1 [mm]	closest inch [inch]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	SC	
1/4	8	5	11		14	21	10	6	12	M5	
3/8	10	6	14		17	23	10	6	16	M5	
1/2	10	6	17		19	25	10	6	16	M5	
3/4	10	6	19		22	28	10	6	16	M5	
1	10	6	24		27	31	10	6	16	M5	
1	14	7	34		34	35	10	7	22	M6	
1 1/2	14	7	37		37	40	10	7	22	M6	
2	17	9	45		45	52	10	10	25	M8	
2 1/2	17	9	52	2 1/2	52	58	10	10	25	M8	
3	17	9	65	3	65	65	10	10	28	M8	
4	17	9	79		79	81	10	10	28	M8	
5	17	9	98	5	98	110	10	10	32	M8	



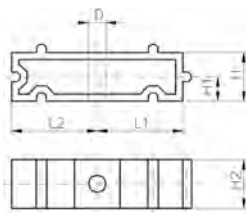
KLIP-IT spacer type 061 PP

Model:

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

d [mm]	Inch [inch]	Code	Weight [kg]	
10 - 12	1/8 - 1/4	167 061 153	0.003	
16	3/8	167 061 155	0.005	
20	1/2	167 061 156	0.005	
25	3/4	167 061 157	0.007	
32	1	167 061 158	0.006	
40	1 1/4	167 061 159	0.015	
50	1 1/2	167 061 160	0.017	
63	2	167 061 161	0.020	
75	2 1/2	167 061 162	0.027	

table continued next page



PF 2 30 162 023

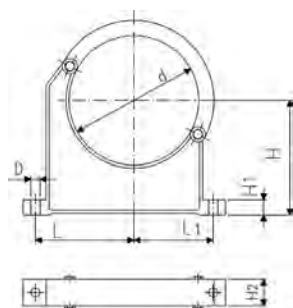
d [mm]	Inch [inch]	HoH +/- 2mm [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L1 [mm]	L2 [mm]	SC	
10 - 12	1/8 - 1/4	1	5	20	10	12	11	14	M4	
16	3/8	17	6	20	10	16	14	17	M5	
20	1/2	21	6	20	10	16	17	19	M5	
25	3/4	27	6	20	10	16	19	22	M5	
32	1	37	6	20	10	16	24	27	M5	
40	1 1/4	44	7	20	10	22	34	34	M6	
50	1 1/2	52	7	20	10	22	37	37	M6	
63	2	67	9	20	10	25	45	45	M8	
75	2 1/2	81	9	20	10	25	52	52	M8	



Pipe clip type 060 PP BS

Model:

- Material: Clip and safety clip PP black, UV resistant, bolts galvanized
- Accidental opening of the safety clip is not possible
- **Minimum order quantity: standard packaging SP or gross packaging GP**
- Clip and safety clip are not assembled in the packaging.



d [inch]	d [mm]	closest inch [inch]	Code	PF	SP	GP	Weight [kg]	
3	90	3	167 060 038	2 30 162 023	10	40	0.144	
4			167 060 064	2 30 162 029	10	30	0.160	
5	140	5	167 060 041	2 30 162 023	10	20	0.260	
6			167 060 067	2 30 162 029	10	20	0.302	
8			167 060 070	2 30 162 029	5	0	0.514	

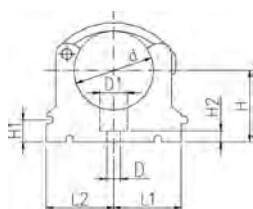
d [inch]	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	H2 [mm]	SC	
3	9	89	71	105	15	33	M 8	
4	9	100	82	120	15	33	M 8	
5	11	121	98	130	20	35	M 10	
6	11	136	111	148	25	35	M 10	
8	13	165	132	175	25	39	M 12	

Pipe clips metric

KLIP-IT pipe clip type 061 PP metric

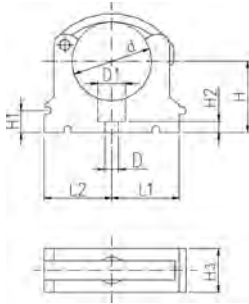
Model:

- Material: Clip and safety clip PP black, UV resistant, bolts galvanized
- d16 - d63: Height designed for Ball Valve Type 546 and 543
- **Minimum order quantity: standard packagings SP**



	d [mm]	d [inch]	Code	SP	Weight [kg]	
*	10		167 061 003	10	0.003	
*	12		167 061 004	10	0.003	
*	16		167 061 035	10	0.007	
	20		167 061 036	10	0.007	
	25		167 061 037	10	0.009	
*	32		167 061 038	10	0.012	
	40		167 061 039	10	0.027	
	50		167 061 040	10	0.031	
	63		167 061 041	10	0.052	
	75	2 1/2	167 061 012	10	0.057	
	90	3	167 061 013	10	0.092	
	110	4	167 061 014	10	0.117	
	125		167 061 015	10	0.180	
	140	5	167 061 016	10	0.224	
	160		167 061 017	10	0.242	

table continued next page



PF 2 30 162 023

	d [mm]	d [inch]	D [mm]	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	HoH +/- 2mm [mm]	L1 [mm]	L2 [mm]	SC	closest inch [inch]
*	10		5	8	20	10	6	12		11	14	M4	1/8
*	12		5	8	21	10	6	12		11	14	M5	1/4
*	16		6	11	27	10	6	16	17	14	17	M5	3/8
	20		6	11	27	10	6	16	21	17	19	M5	1/2
	25		6	11	30	10	6	16	27	19	22	M5	3/4
*	32		6	11	36	10	6	16	37	24	27	M5	1
	40		7	14	44	10	7	22	44	34	34	M6	1 1/4
	50		7	14	51	10	7	22	52	37	37	M6	1 1/2
	63		9	17	64	10	10	25	67	45	45	M8	2
	75	2 1/2	9	17	58	10	10	25		52	52	M8	2 1/2
	90	3	9	17	65	10	10	28		65	65	M8	3
	110	4	9	17	75	10	10	28		79	79	M8	4
	125		9	17	90	10	10	32		88	88	M8	
	140	5	9	17	110	10	10	32		98	98	M8	5
	160		9	17	108	10	10	32		109	109	M8	6



KLIP-IT spacer type 061 PP

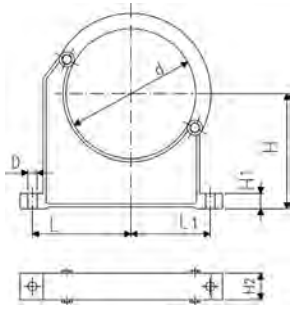
Model:

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

d [mm]	Inch [inch]	Code	SP	Weight [kg]	
10 - 12	1/8 - 1/4	167 061 153	10	0.003	
16	3/8	167 061 155	10	0.005	
20	1/2	167 061 156	10	0.005	
25	3/4	167 061 157	10	0.007	
32	1	167 061 158	10	0.006	
40	1 1/4	167 061 159	10	0.015	
50	1 1/2	167 061 160	10	0.017	
63	2	167 061 161	10	0.020	
75	2 1/2	167 061 162	10	0.027	
90	3	167 061 163	10	0.039	
110	4	167 061 164	10	0.048	
125	4 1/2	167 061 165	10	0.059	
140	5	167 061 166	10	0.065	
160	6	167 061 167	10	0.071	

d [mm]	Inch [inch]	D [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	HoH +/- 2mm [mm]	SC	
10 - 12	1/8 - 1/4	5	11	14	20	10	12	1.0	M4	
16	3/8	6	14	17	20	10	16	17.0	M5	
20	1/2	6	17	19	20	10	16	21.4	M5	
25	3/4	6	19	22	20	10	16	26.9	M5	
32	1	6	24	27	20	10	16	36.7	M5	
40	1 1/4	7	34	34	20	10	22	44.4	M6	
50	1 1/2	7	37	37	20	10	22	52.3	M6	
63	2	9	45	45	20	10	25	66.7	M8	
75	2 1/2	9	52	52	20	10	25	81.2	M8	
90	3	9	65	65	20	10	28	100.0	M8	
110	4	9	79	79	20	10	28	127.3	M8	
125	4 1/2	9	88	88	20	10	32	142.9	M8	
140	5	9	98	98	20	10	32	161.4	M8	
160	6	9	109	109	20	10	32	185.1	M8	

PF 2 30 162 023



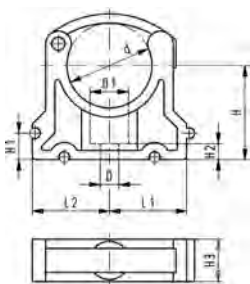
PF 2 30 162 023

Pipe clip type 060 PP metric

Model:

- Material: Clip and safety clip PP black, UV resistant, bolts galvanized
- **Minimum order quantity: standard packaging SP or gross packaging GP**
- Accidental opening of the safety clip is not possible
- Clip and safety clip are not assembled in the packaging.
- Pipes with flanges can be installed directly

d [mm]	d [inch]	Code	SP	Weight [kg]	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	H2 [mm]	SC	closest inch [inch]
90	3	167 060 038	10	0.144	9	89	71	105	15	33	M 8	3
110		167 060 039	10	0.158	9	94	80	115	15	33	M 8	4
125		167 060 040	10	0.249	11	116	91	130	20	35	M10	
140	5	167 060 041	10	0.260	11	121	98	130	20	35	M10	5
160		167 060 042	10	0.296	11	131	107	148	20	35	M10	6
180		167 060 043	10	0.327	11	143	115	163	20	35	M10	7
200		167 060 019	5	0.539	13	152	120	175	25	39	M12	8
225		167 060 020	5	0.178	13	165	132	175	25	39	M12	8
250		167 060 021	5	0.657	13	183	143	200	25	39	M12	9
280		167 060 022	5	0.212	13	198	156	200	25	39	M12	10
315		167 060 023	5	0.805	13	219	172	225	25	39	M12	12
355		167 060 024	5	1.251	17	275	209	258	30	50	M16	14
400		167 060 025	4	1.031	17	300	228	288	30	50	M16	16



PF 2 30 162 023

KLIP-IT pipe clip type 061H PP metric

- * d16 to d32 without bracket
- d16 - d63: height designed for Ball Valve Type 546 und 543

Model:

- Material: Clip and safety clip PP black, UV resistant, bolts galvanized
- **Minimum order quantity: standard packaging SP**

	d [mm]	Code	SP	Weight [kg]	
*	16	167 061 035	10	0.007	
	20	167 061 036	10	0.007	
	25	167 061 037	10	0.009	
*	32	167 061 038	10	0.012	
	40	167 061 039	10	0.027	
	50	167 061 040	10	0.031	
	63	167 061 041	10	0.052	

	d [mm]	HoH +/- 2mm [mm]	closest inch [inch]	D1 [mm]	D [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	SC
*	16	17	3/8	11	6	14	17	27	10	6	16	M5
	20	21	1/2	11	6	17	19	27	10	6	16	M5
	25	27	3/4	11	6	19	22	30	10	6	16	M5
*	32	37	1	11	6	24	27	36	10	6	16	M5
	40	44	1 1/4	14	7	34	34	44	10	7	22	M6
	50	52	1 1/2	14	7	37	37	51	10	7	22	M6
	63	67	2	17	9	45	45	64	10	10	25	M8

Solvent cementing accessories

Tangit solvent cement for PVC-U



PF 2 28 473 001

- 0.125 kg tube
- Tin à 0.250, 0.500 and 1.000 kg (Net)

Code	Weight [kg]	Description	
799 298 000	0.125	tube: 0.125 kg	
799 298 001	0.250	tin: 0.25 kg	
799 298 002	0.500	tin: 0.50 kg	
799 298 003	1.000	tin: 1.00 kg	

Cap for cement

- Tangit cement
- Cap prevents the evaporation of the solvent whilst using the Tangit cement



PF 2 28 473 001

Code	Weight [kg]	
799 298 028	0.035	

Cleaners

Tangit cleaner

Model:

- 1 litre tin



PF 2 28 473 002

Code	Weight [kg]	
799 298 010	0.900	

Brushes

Round brush



d-d [mm]	#	Code	Weight [kg]	Closest inch [inch]	
6 - 10	4 mm (for Fittings 6-10mm)	799 299 001	0.004	1/8	
12 - 32	8 mm (for Fittings 12-32mm)	799 299 002	0.006	1/4 - 1	

PF 2 30 217 004



Flat brush

d-d [mm]	#	Closest inch [inch]	Code	Weight [kg]	
40 - 63	25x3 mm (for Fittings 40-63mm)	1 ¼ - 2	799 299 003	0.015	
75 - 225	50x5 mm (for Fittings 75-225mm)	2 ½ - 8	799 299 004	0.035	
250 - 400	75x6 mm (for Fittings 250-400mm)	9 - 16	799 299 005	0.053	

PF 2 30 217 005

Chamfering tools

Chamfering tools



- Chamfering tool (15° bevel) for plastic pipes (PVC, ABS, PB, PP, PE). Coated prism surface suitable for clean room applications. Fast and reliable adjustment to the different pipe diameters and wall thickness.

d-d [mm]	Code	Weight [kg]	
16 - 200	790 309 003	1.024	
63 - 400	790 309 004	2.548	

PF 3 25 117 906



Plastic pipe cutter

- The KS 355 is the ideal tool for simple right angle precision cutting of PVC, PE and PP pipes, Size range d 160 to 355 mm with a wall thickness up to 40 mm. Including transport box.
- Unique clamping mechanism, no additional tools like belts, chains or reduction inserts necessary

d-d [mm]	Code	
160 - 355	790 202 001	

PF 3 25 129 760

PPC Plastic pipe cutter



- For cutting plastic pipes d10 - d160

Article	d-d [mm]	Code	Closest inch [inch]	
PPC 63, s max. = 7.2mm	10 - 63	790 109 001	½ - 2	
PPC 110, s max. = 12.7mm	50 - 110	790 109 002	1 ½ - 4	
PPC 160, s max. = 19.0mm	110 - 160	790 109 003	4 - 6	

PF 3 25 117 309

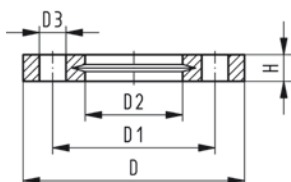


Replacement cutting wheels

- for plastic pipe cutter

d-d [mm]	Article	Code	
10 - 63	SR 63 max. s=7,2 mm	790 109 011	
50 - 110	SR 110/160 max. s=12,7 mm	790 109 012	
110 - 160	SR 160 max. s=19,0 mm	790 109 013	

PF 3 25 117 909



Backing flange PP-V For socket systems Inch ANSI

AL: number of holes

* Combined version, metric-ANSI

• 727701414, 727700417, 727700419: only for use with original metric flange adaptors

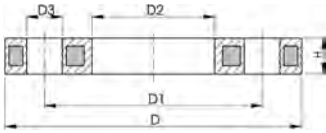
¹⁾ Suitable for socket- and butt fusion systems (no pictograph on flange)

Model:

- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- Bolt circle class 150
- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt-fixing as an assembly aid

	Size [inch]	DN [mm]	d [mm]	PN [bar]	Code	PF	SP	Weight [kg]
1	1/2	15	20	16	727 701 406	2 34 238 032	56	0.091
1	3/4	20	25	16	727 701 407	2 34 238 032	38	0.120
1	1	25	32	16	727 701 408	2 34 238 032	80	0.147
1	1 1/4	32	40	16	727 701 409	2 34 238 032	40	0.246
1	1 1/2	40	50	16	727 701 410	2 34 238 032	30	0.299
1	2	50	63	16	727 701 411	2 34 238 032	25	0.361
1	2 1/2	65	75	16	727 701 412	2 34 238 032	19	0.492
	3	80	90	16	727 701 413	2 34 238 032	14	0.605
	4	100	110	16	200 050 086	2 34 238 032	12	0.704
	6	150	160	16	200 050 081	2 34 238 030	1	1.050
*	8	200	200	16	727 700 419	2 34 238 030	0	1.629
*	8	200	225	16	727 700 420	2 34 238 030	0	1.400
	10	250	280	16	727 701 422	2 34 238 032	0	1.838
	12	300	315	16	727 701 423	2 34 238 032	0	3.482

	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
1	95	60	28	16	16	4	M12
1	105	70	34	16	17	4	M12
1	115	79	42	16	18	4	M12
1	140	89	51	16	20	4	M16
1	150	98	62	16	22	4	M16
1	165	121	78	19	24	4	M16
1	185	140	92	19	26	4	M16
	200	152	110	19	27	4	M16
	229	190	133	19	28	8	M16
	285	241	190	22	32	8	M20
*	340	297	226	22	34	8	M20
*	340	297	250	22	34	8	M20
	406	362	310	26	38	12	M20
	483	432	348	26	42	12	M20



Backing flange PP/Steel For socket systems Inch/ANSI

Model:

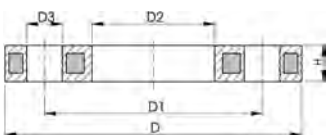
- Material: PP (30 % glass-fibre reinforced) with steel ring
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**
- For Flange Adaptors BS/ANSI

- DN100 and DN150: only for use with original metric flange adaptors

AL: number of holes

d [mm]	DN [mm]	d [inch]	PN [bar]	Code	PF	Weight [kg]	
20	15	1/2	16	727 701 206	2 34 238 021	0.213	
25	20	3/4	16	727 701 207	2 34 238 021	0.260	
32	25	1	16	727 701 208	2 34 238 021	0.416	
40	32	1 1/4	16	727 701 209C	2 34 238 023		
50	40	1 1/2	16	727 701 210C	2 34 238 023		
63	50	2	16	727 701 211C	2 34 238 023		
75	65	2 1/2	16	727 701 212C	2 34 238 023		
90	80	3	16	727 701 213C	2 34 238 021		
110	100	4	16	727 701 214C	2 34 238 021		
225	200	8	16	727 701 220	2 34 238 021	4.473	

H [mm]	D2 [mm]	D1 [mm]	D3 [mm]	D [mm]	AL	
12	28	60	16	95	4	
12	34	70	16	105	4	
16	42	79	16	115	4	
16	51	89	16	140	4	
18	62	98	16	150	4	
18	78	121	19	165	4	
18	92	140	19	185	4	
20	110	152	19	200	4	
20	133	190	19	229	8	
27	250	298	22	340	8	



Backing flange PP-Steel For butt fusion systems Inch/ANSI

Model:

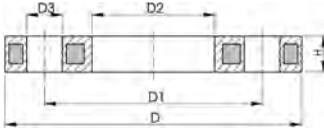
- Material: PP (30 % glass-fibre reinforced) with steel ring
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**

*Combined version, bolt circle metri - ANSI

AL: number of holes

	d [inch]	d [mm]	DN [mm]	PN [bar]	Code	PF	Weight [kg]	
	1/2	20	15	16	727 701 206	2 34 238 021	0.213	
	3/4	25	20	16	727 701 207	2 34 238 021	0.260	
	1	32	25	16	727 701 208	2 34 238 021	0.416	
	1 1/4	40	32	16	727 701 209	2 34 238 021	0.730	
	1 1/2	50	40	16	727 701 210	2 34 238 021	0.809	
	2	63	50	16	727 701 211	2 34 238 021	0.866	
	2 1/2	75	65	16	727 701 212	2 34 238 021	1.117	
	3	90	80	16	727 701 313	2 34 238 023	1.499	
	4	110	100	16	727 701 314	2 34 238 023	1.739	
*	6	160	150	16	727 700 717	2 34 238 022	3.491	
*	8	200	200	16	727 700 719	2 34 238 022	5.600	
*	8	225	200	16	727 700 720	2 34 238 022	5.533	

table continued next page



	d [inch]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC	
	1/2	95	60	28	16	12	4	M12	
	3/4	105	70	34	16	12	4	M12	
	1	115	79	42	16	16	4	M12	
	1 1/4	140	89	51	16	16	4	M16	
	1 1/2	150	98	62	16	18	4	M16	
	2	165	121	78	19	18	4	M16	
	2 1/2	185	140	92	19	18	4	M16	
	3	200	152	108	19	20	4	M16	
	4	229	190	128	19	20	8	M16	
*	6	285	241	178	22	26	8	M20	
*	8	340	297	235	22	29	8	M20	
*	8	340	297	238	22	29	8	M20	

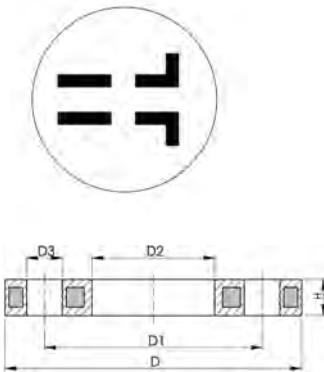


Backing flange PP/Steel For butt fusion systems Inch ANSI

Model:

- Material: PP (30 % glass-fibre reinforced) with steel ring
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**

AL: number of holes



d [mm]	DN [mm]	d [inch]	PN [bar]	Code	PF	Weight [kg]	
20	15	1/2	16	727 701 206	2 34 238 021	0.213	
25	20	3/4	16	727 701 207	2 34 238 021	0.260	
32	25	1	16	727 701 208	2 34 238 021	0.416	
40	32	1 1/4	16	727 701 209C	2 34 238 023		
50	40	1 1/2	16	727 701 210C	2 34 238 023		
63	50	2	16	727 701 211C	2 34 238 023		
75	65	2 1/2	16	727 701 212C	2 34 238 023		
90	80	3	16	727 701 313C	2 34 238 023		
110	100	4	16	727 701 314C	2 34 238 023		
200	200	8	16	727 701 319	2 34 238 023	5.440	
225	200	8	16	727 701 320	2 34 238 023	5.621	

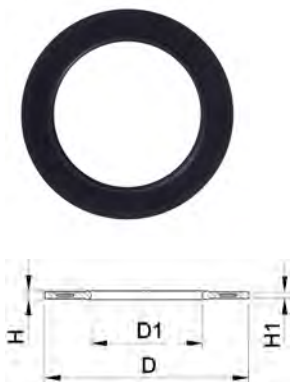
AL	D [mm]	H [mm]	D2 [mm]	D1 [mm]	D3 [mm]	
4	95	12	28	60	16	
4	105	12	34	70	16	
4	115	16	42	79	16	
4	140	16	51	89	16	
4	150	18	62	98	16	
4	165	18	78	121	19	
4	185	18	92	140	19	
4	200	20	108	152	19	
8	229	20	128	190	19	
8	340	27	235	298	22	
8	340	27	238	298	22	

Backing Ring Code Chart to Suit UPVC Stub Flanges

Size	Code	Code	Code	Table D - GAL	Table E - GAL	ANSI 150 - GAL	Table D - SS	Table E - SS	ANSI 150 - SS	PP-V ANSI	PP-V DIN	PP-Steel ANSI	PP-Steel DIN	Van-stone flange
	BS Imperial	Metric												ANSI
1/2"	721791108	20	721800106	200059726	200059726	200059782	200059877	200059877	200059905	727701406	727700406	727701208	727700206	
3/4"	721791107	25	721800107	200059727	200059727	200059783	200059878	200059878	200059906	727701407	727700407	727701207	727700207	
1"	721791108	32	721800108	200059728	200059728	200059784	200059879	200059879	200059907	727701408	727700408	727701208	727700208	
1 1/4"	721791109	40	721800109	200059729	200059729	200059785	200059880	200059880	200059908	727701409	727700409	727701209C	727700209	
1 1/2"	721791110	50	721800110	200059730	200059730	200059786	200059881	200059881	200059909	727701410	727700410	727701210C	727700210	
2"	721790111	63	721790111	200059731	200059731	200059787	200059882	200059882	200059910	727701411	727700411	727701211C	727700211	
2-1/2"	N/a	75	721790112	200059732	200059732	200059788	200059883	200059883	200059911	727701412	727700412	727701212C	727700212	
3"	721791113	90	721790113	200059812	200059812	200059812	200059935	200059935	200064121	727701413	727700413	727701213C	727700213	
4"	721791115	110	721790114	200059813	200059829	200059829	200059936	200059952	200064131	727701414	727700414	727701214C	727700214	
5"				200060455	200059845	200059845	200059936	200059968	200064122	200060086	200050066	200050032	x	
6"	N/a	125	721790116	200059815	200059815	200064132	200059938	200059938	200064123	727700416	727700415	727700215	727700215	200060316
	721791117			200059816	200059847	200059847	200059939	200059970	200064124	727700417	x	200050031	x	V-FLANGE CPVC SLOTTED TO SUIT T/E 6"
8"	721791120	160	721790117	200059832	200059832	200064133	200059939	200059955	200064125	727700417	727700417	727700217	727700217	200060204
10"	721791122	225	721790120	200059818	200059835	200064134	200059941	200059958	200064126	727700420	727700420	727701220	727700220	VanStone CPVC Flange 8" Table E
	721791123	280	721790122	200059819	200059836	200064135	200059942	200059959	200064126	727701422	727700422	200060097	727700222	200060313
12"	721791123	315	721790123	200059820	200059837	200064136	200059943	200059960	200064127	727701423	727700423	200060097	727700223	VanStone UPVC d225 Ansi Sch80 machined
		355	721790124			200064137			200064128		727700424	200060099	727700224	200060311
		400	721790125			200064138			200064129		727700425	200060100	727700225	Vanstone Flange CPVC DN250 T/E (10")

The above codes can also be used for Socket Fusion in PP-H/PE/PB/PVDF Metric Range





Flange gasket For flange connections ANSI

Model:

- Suitable for flange adaptors PP/PE
- Hardness: 70° Shore **EPDM**, 75° Shore **FPM**

- The seal is designed so that it is centered by the flange bolts. The dimension D is in accordance with the centering on the inner diameter of the bolt circle.

d [mm]	DN [mm]	Inch [inch]	EPDM Code	PF	SP	Weight [kg]
16	10		748 440 705	2 30 162 037	0	0.008
25	20	3/4	748 440 502	2 34 237 004	0	0.010
32	25	1	748 440 503	2 34 237 004	0	0.011
40	32	1 1/4	748 440 504	2 34 237 004	0	0.017
50	40	1 1/2	748 440 505	2 34 237 004	0	0.030
63	50	2	748 440 506	2 34 237 004	0	0.029
75	65	2 1/2	748 440 507	2 34 237 004	0	0.046
90	80	3	748 440 508	2 34 237 004	0	0.053
110	100	4	748 440 509	2 34 237 004	0	0.088
160 - 180	150		748 440 717	2 30 162 037	0	0.142
225	200		748 440 720	2 30 162 037	0	0.175
250	250	10	748 440 517	2 34 237 004	0	0.243
315	300	12	748 440 518	2 34 237 004	0	0.398
355	350	14	748 440 519	2 34 237 004	1	0.001
400	400	16	748 440 520	2 34 237 004	1	0.001

FPM Code	PF	SP	Weight [kg]	di FA [mm]	Closest inch [inch]	D1 [mm]	D [mm]	H [mm]	H1 [mm]	
749 440 705	2 30 162 038	0	0.012	6 - 16		16	46	4	3	
749 440 502	2 34 237 005	0	0.011		¾	27	54	4	3	
749 440 503	2 34 237 005	0	0.023		1	33	64	4	3	
749 440 504	2 34 237 005	0	0.024		1 ¼	42	73	4	3	
749 440 505	2 34 237 005	0	0.030		1 ½	48	83	4	3	
749 440 506	2 34 237 005	0	0.042		2	60	102	5	4	
749 440 507	2 34 237 005	0	0.068		2 ½	73	121	5	4	
749 440 508	2 34 237 005	0	0.083		3	89	133	5	4	
749 440 509	2 34 237 005	0	0.139		4	115	171	6	5	
749 440 717	2 30 162 038	0	0.207	150 - 160 207 - 220		6	160	218	8	6
749 440 720	2 30 162 038	0	0.255		8 - 9	220	273	8	6	
749 440 517	2 34 237 005	0	0.373		10	273	337	8	6	
749 440 518	2 34 237 005	0	0.750		12	325	406	8	6	
749 440 519	2 34 237 004	0	0.800		14	356	448	10	7	
749 440 520	2 34 237 004	0	0.900		16	406	512	10	7	

CPVC Imperial - Sch 80 Pipe & Fittings

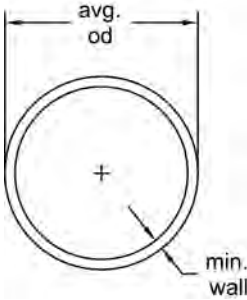
Pipes

Schedule 80 CPVC Pressure Pipe

Harvel Corzan® - 20 ft lengths

Max Water Pressure at 73°F (22.7°C) with solvent-cemented joints

Belled-end pipe available upon request



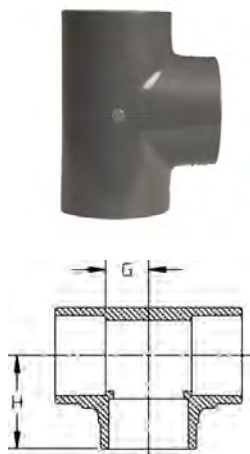
Size [inch]	Ponta/Ponta Code	Lift Qty [ft]	Average O.D. [inch]	Average I.D. [inch]	min. wall [inch]	Wt/Ft [lbs./ft]	Max Water Pressure [psi]
¼	H0800025CG2000		0.540	0.288	0.119	0.112	1130
⅜	H0800038CG2000		0.675	0.407	0.126	0.154	920
½	H0800050CG2000	5700	0.840	0.528	0.147	0.225	850
¾	H0800075CG2000	5260	1.050	0.724	0.154	0.305	690
1	H0800100CG2000	4280	1.315	0.935	0.179	0.449	630
1 ¼	H0800125CG2000	2360	1.000	1.256	0.191	0.618	520
1 ½	H0800150CG2000	2060	1.900	1.476	0.200	0.751	470
2	H0800200CG2000	1660	2.375	1.913	0.218	1.040	400
2 ½	H0800250CG2000	1080	2.875	2.289	0.276	1.584	420
3	H0800300CG2000	840	3.500	2.864	0.300	2.124	370
3 ½	H0800350CG2000		4.000	3.326	0.318	2.607	350
4	H0800400CG2000	520	4.500	3.786	0.337	3.105	320
5	H0800500CG2000	400	5.563	4.767	0.375	4.343	290
6	H0800600CG2000	340	6.625	5.709	0.432	5.929	280
8	H0800800CG2000	220	8.625	7.565	0.500	9.051	250
10	H0801000CG2000	80	10.750	9.492	0.593	13.429	230
12	H0801200CG2000	60	12.750	11.294	0.687	18.458	230
14	H0801400CG2000	60	14.000	12.410	0.750	22.224	220
16	H0801600CG2000	60	16.000	14.214	0.843	28.557	220
18	H0801800CG2000	40	18.000	16.014	0.937	35.745	220
20	H0802000CG2000	40	20.000	17.814	1.031	45.022	220
24	H0802400CG2000	40	24.000	21.418	1.218	63.878	210

PF 2 H1 H06 001

Fittings

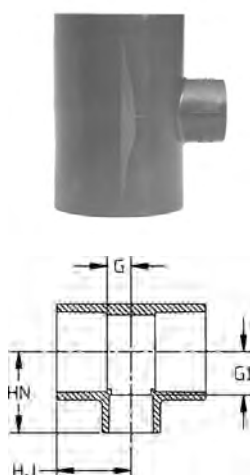
Schedule 80 CPVC Pressure Fittings

Tee (S x S x S)



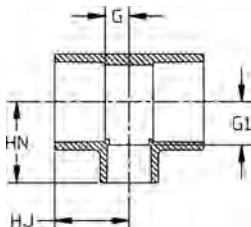
Size [inch]	P/L	Code	Pack Qty	H [inch]	G [inch]	Design	
1/2	25	9801-005	25	1.49	0.50	SL	
3/4	25	9801-007	15	1.61	0.56	SL	
1	25	9801-010	20	1.86	0.72	SL	
1 1/4	25	9801-012	5	2.19	0.91	SL	
1 1/2	25	9801-015	5	2.44	1.06	SL	
2	25	9801-020	5	2.82	1.32	SL	
2 1/2	25	9801-025	5	3.33	1.50	SL	
3	25	9801-030	5	3.75	1.85	SL	
4	25	9801-040	5	4.63	2.38	SL	
6	25	9801-060	2	6.53	3.53	SL	
8	25	9801-080	1	8.63	4.59	SL	
10	02	9801-100	1	11.25	5.75	SL	
12	02	9801-120	1	13.35	6.89	SL	
14		9801-140N	1	19.50	10.88		
16		9801-160N	1	22.75	12.13		
18		9801-180N	1	26.00	13.38		
20		9801-200N	1	28.25	14.63		
24		9801-240N	1	34.50	17.13		

Reducing Tee (S x S x S)



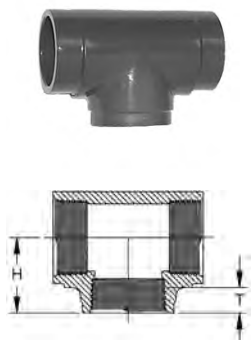
Size [inch]	P/L	Code	Pack Qty	HJ [inch]	HN [inch]	G [inch]	G1 [inch]	Design	
3/4 - 1/2	25	9801-101	25	1.63	1.63	0.61	0.73	SL	
1 - 1/2	25	9801-130	25	1.88	1.63	0.73	0.75	SL	
1 - 3/4	25	9801-131	25	1.88	1.87	0.73	0.86	SL	
1 1/4 - 1	25	9801-168	20	2.00	2.00	0.73	0.91	SL	
1 1/2 - 1/2	25	9801-209	5	2.41	2.70	1.03	1.82	SL	
1 1/2 - 3/4	25	9801-210	5	2.00	2.00	0.61	1.05	SL	
1 1/2 - 1	25	9801-211	5	2.13	2.20	0.73	0.81	SL	
2 - 1/2	25	9801-247	5	2.78	3.06	1.28	1.22	SL	
2 - 3/4	25	9801-248	5	2.13	2.31	0.73	1.29	SL	
2 - 1	25	9801-249	5	2.25	2.44	0.73	1.26	SL	
2 - 1 1/2	25	9801-251	5	2.56	2.69	1.05	1.29	SL	
2 1/2 - 2	25	9801-292	5	3.04	3.04	1.28	1.53	SL	
3 - 3/4	25	9801-334FB	5	3.19	3.50	1.30	2.00	BUSH	
3 - 1	25	9801-335FB	5	3.20	3.50	1.30	2.43	BUSH	
3 - 1 1/4	25	9801-336FB	5	3.21	3.69	1.31	2.43	BUSH	
3 - 2	25	9801-338	5	3.21	3.40	1.31	1.87	SL	
3 - 2 1/2	25	9801-339FB	5	3.75	4.08	1.85	2.24	BUSH	
4 - 1 1/2	25	9801-419FB	5	3.50	4.12	1.30	2.30	BUSH	
4 - 2	25	9801-420	5	3.52	3.88	1.26	2.37	SL	
4 - 3	25	9801-422	5	4.15	4.31	1.87	2.39	SL	
6 - 3/4	06	9801-524FB	1	6.58	7.49	3.56	6.49	BUSH	
6 - 1 1/2	06	9801-527FB	1	6.58	7.49	3.56	6.05	BUSH	
6 - 2	25	9801-528FB	2	6.58	7.21	3.56	5.65	BUSH	
6 - 3	25	9801-530FB	2	6.58	7.21	3.56	5.26	BUSH	
6 - 4	25	9801-532	2	6.58	6.81	3.49	4.50	HS	
8 - 4	25	9801-582FB	1	7.63	8.09	3.59	5.84	BUSH	
8 - 6	25	9801-585	1	7.63	7.52	3.59	4.50	SL	
10 - 2		9801-619N	1	10.75	11.50	5.75	9.50		
10 - 3		9801-621N	1	10.75	11.50	5.75	9.50		
10 - 4		9801-623N	1	10.75	11.50	5.75	9.50		
10 - 6	02	9801-626FB	1	11.25	11.88	5.75	8.32	BUSH	
10 - 6		9801-626N	1	11.88	12.50	6.88	9.50		
10 - 8	02	9801-628FB	1	11.25	11.88	5.75	7.32	BUSH	
10 - 8		9801-628N	1	13.00	13.50	8.00	9.50		
12 - 2		9801-659N	1	12.00	12.75	6.00	10.75		
12 - 3		9801-661N	1	12.00	12.75	6.00	10.75		
12 - 4		9801-663N	1	12.00	12.75	6.00	10.75		
12 - 6		9801-666N	1	13.13	13.75	7.13	10.75		

table continued next page



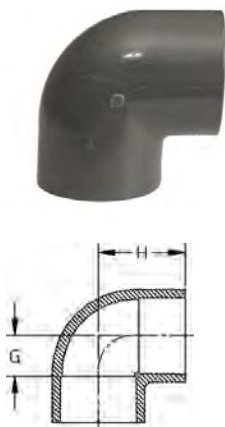
Size [inch]	P/L	Code	Pack Qty	HJ [inch]	HN [inch]	G [inch]	G1 [inch]	Design	
12 - 8	02	9801-668FB	1	13.35	14.00	6.89	9.52	BUSH	
12 - 8		9801-668N	1	14.13	14.75	8.13	10.75		
12 - 10	02	9801-670FB	1	13.35	14.00	6.89	8.52	BUSH	
12 - 10		9801-670N	1	15.13	15.75	9.13	10.00		
14 - 2		9801-692N	1	13.13	13.50	6.13	11.50		
14 - 3		9801-694N	1	13.13	13.50	6.13	11.50		
14 - 4		9801-696N	1	13.13	13.50	6.13	11.50		
14 - 6		9801-698N	1	14.25	14.50	7.25	11.50		
14 - 8		9801-700N	1	15.25	15.50	8.25	11.50		
14 - 10		9801-702N	1	16.25	16.50	9.25	11.50		
14 - 12		9801-704N	1	17.25	18.50	10.25	12.50		
16 - 2		9801-726N	1	14.34	14.75	6.38	12.75		
16 - 3		9801-728N	1	14.38	14.75	6.38	12.75		
16 - 4		9801-730N	1	14.38	14.75	6.38	12.75		
16 - 6		9801-732N	1	15.50	15.75	7.50	12.75		
16 - 8		9801-734N	1	16.50	16.75	8.50	12.75		
16 - 10		9801-736N	1	17.50	17.75	9.50	12.75		
16 - 12	06	9801-738N	1	18.50	19.75	10.50	13.75	FAB	
16 - 14		9801-740N	1	19.13	20.75	11.13	13.75		
18 - 4		9801-784N	1	15.63	16.00	6.63	14.00		
18 - 6		9801-786N	1	16.75	17.00	7.75	14.00		
18 - 8		9801-788N	1	17.75	18.00	8.75	14.00		
18 - 10		9801-790N	1	18.75	19.00	9.75	14.00		
18 - 12		9801-792N	1	19.75	21.00	10.75	15.00		
18 - 14		9801-794N	1	20.38	22.00	11.38	15.00		
18 - 16		9801-796N	1	21.38	24.00	12.38	16.00		
20 - 4		9801-814N	1	16.88	17.25	6.88	15.25		
20 - 6		9801-816N	1	18.00	18.25	8.00	15.25		
20 - 8		9801-818N	1	19.00	19.25	9.00	15.25		
20 - 10		9801-820N	1	20.00	20.25	10.00	15.25		
20 - 12		9801-822N	1	21.00	22.25	11.00	16.25		
20 - 14		9801-824N	1	21.63	23.25	11.63	16.25		
20 - 16		9801-826N	1	22.63	25.25	12.63	17.25		
20 - 18		9801-828N	1	23.63	27.25	13.63	18.25		
24 - 4		9801-904N	1	19.38	19.50	7.38	17.50		
24 - 6		9801-906N	1	20.50	20.50	8.50	17.50		
24 - 8		9801-908N	1	21.50	21.50	9.50	17.50		
24 - 10		9801-910N	1	22.50	22.50	10.50	17.50		
24 - 12		9801-912N	1	23.50	24.50	11.50	18.50		
24 - 14		9801-914N	1	24.13	25.50	12.13	18.50		
24 - 16		9801-916N	1	25.13	27.50	13.13	19.50		
24 - 18		9801-918N	1	26.13	30.50	14.13	20.50		
24 - 20		9801-920N	1	27.13	32.50	15.13	20.50		

Tee (FPT x FPT x FPT)



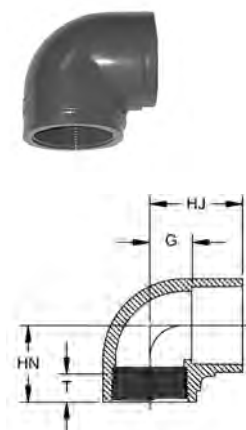
Size [inch]	P/L	Code	Pack Qty	H [inch]	T [inch]	Design	
¼	25	9805-002	50	0.92	0.40	HS	
⅜	25	9805-003	50	1.16	0.41	HS	
½	25	9805-005	25	1.27	0.53	HS	
¾	25	9805-007	15	1.38	0.55	HS	
1	25	9805-010	15	1.70	0.68	HS	
1 ¼	25	9805-012	10	1.93	0.71	HS	
1 ½	25	9805-015	10	2.08	0.72	HS	
3	25	9805-030	5	2.35	1.20	HS	
2	25	9805-020	5	2.88	0.76	HS	
4	25	9805-040	5	3.50	1.30	HS	
2 ½	25	9805-025	5	4.06	1.14	HS	

90° EII (S x S)



Size [inch]	P/L	Code	Pack Qty	H [inch]	G [inch]	Design	
1/4		9806-002S	50	0.95	0.33		
3/8		9806-003S	50	1.17	0.41		
1/2	25	9806-005	25	1.41	0.50	SL	
3/4	25	9806-007	25	1.61	0.56	SL	
1	25	9806-010	10	1.86	0.69	SL	
1 1/4	25	9806-012	10	2.16	0.91	SL	
1 1/2	25	9806-015	10	2.41	1.03	SL	
2	25	9806-020	10	2.78	1.28	SL	
2 1/2	25	9806-025	5	3.29	1.53	SL	
3	25	9806-030	5	3.75	1.85	SL	
4	25	9806-040	5	4.59	2.34	SL	
6	25	9806-060	2	6.70	3.69	SL	
8	25	9806-080	1	8.52	4.47	SL	
10	02	9806-100	1	10.75	5.75	SL	
12	02	9806-120	1	12.63	6.06	SL	
14	06	9806-140N	1	26.00	19.00	FAB	
16	06	9806-160N	1	29.75	21.75	FAB	
18	06	9806-180N	1	33.50	24.50	FAB	
20	06	9806-200N	1	37.25	27.25	FAB	
24	06	9806-240N	1	44.75	32.75	FAB	

90° EII (S x FPT)



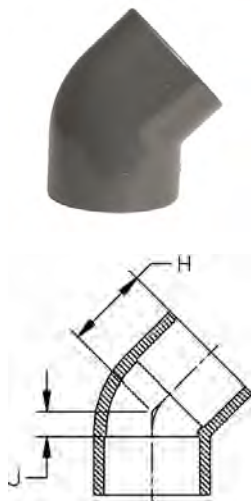
Size [inch]	P/L	Code	Pack Qty	HJ [inch]	HN [inch]	G [inch]	T [inch]	Design	
1/2	25	9807-005	25	1.38	1.28	0.50	0.53	HS	
3/4	25	9807-007	25	1.57	1.38	0.56	0.55	HS	
1	25	9807-010	10	1.82	1.70	0.69	0.68	HS	

90° EII (FPT x FPT)



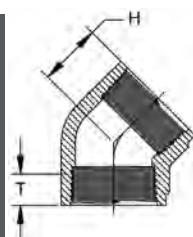
Size [inch]	P/L	Code	Pack Qty	H [inch]	T [inch]	Design	
1/4	25	9808-002	50	0.92	0.40	HS	
3/8	25	9808-003	50	1.00	0.41	HS	
1/2	25	9808-005	25	1.29	0.53	HS	
3/4	25	9808-007	20	1.38	0.55	HS	
1	25	9808-010	10	1.70	0.68	HS	
1 1/4	25	9808-012	10	1.93	0.71	HS	
1 1/2	25	9808-015	10	2.06	0.72	HS	
2	25	9808-020	5	2.36	0.76	HS	
2 1/2	25	9808-025	5	3.00	1.14	HS	
3	25	9808-030	5	3.50	1.20	HS	
4	25	9808-040	5	4.13	1.30	HS	

45° EII (S x S)



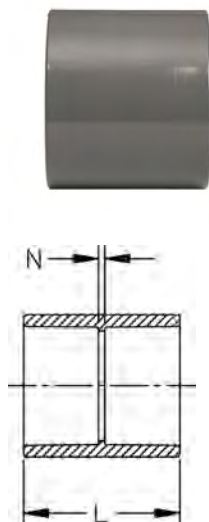
Size [inch]	P/L	Code	Pack Qty	H [inch]	J [inch]	Design	
¼		9817-002S	25	0.81	0.13		
⅜		9817-003S	25	0.97	0.22		
½	25	9817-005	25	1.21	0.25	SL	
¾	25	9817-007	20	1.32	0.33	SL	
1	25	9817-010	25	1.47	0.29	SL	
1 ¼	25	9817-012	15	1.68	0.38	SL	
1 ½	25	9817-015	10	1.88	0.44	SL	
2	25	9817-020	5	2.16	0.60	SL	
2 ½	25	9817-025	5	2.53	0.76	SL	
3	25	9817-030	5	2.66	0.78	SL	
4	25	9817-040	5	3.24	0.95	SL	
6	25	9817-060	2	4.81	1.74	SL	
8	25	9817-080	2	6.11	2.02	SL	
10	02	9817-100	1	7.50	2.50	SL	
12	02	9817-120	1	9.00	3.00	SL	
14	06	9817-140N	1	10.25	3.25	FAB	
16	06	9817-160N	1	11.75	3.75	FAB	
18	06	9817-180N	1	13.25	4.25	FAB	
20	06	9817-200N	1	14.75	4.75	FAB	
24	06	9817-240N	1	17.75	5.75	FAB	

45° EII (FPT x FPT)



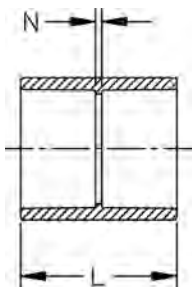
Size [inch]	P/L	Code	Pack Qty	H [inch]	T [inch]	Design	
¼	25	9819-002	50	0.76	0.40	HS	
⅜		9819-003S	50	0.94	0.41		
½	25	9819-005	25	1.02	0.53	HS	
¾	25	9819-007	20	1.14	0.55	HS	
1	25	9819-010	25	1.33	0.68	HS	
1 ¼	25	9819-012	15	1.40	0.71	HS	
1 ½	25	9819-015	10	1.52	0.72	HS	
2	25	9819-020	5	1.72	0.76	HS	
3	25	9819-030	5	2.44	1.20	HS	
4	25	9819-040	5	2.77	1.30	HS	

Coupling (S x S)

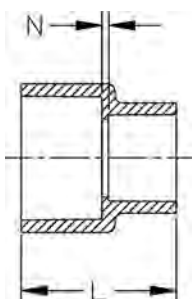


Size [inch]	P/L	Code	Pack Qty	L [inch]	N [inch]	Design	
¼		9829-002S	50	1.39	0.14		
⅜		9829-003S	50	1.64	0.14		
½	25	9829-005	25	1.93	0.13	SL	
¾	25	9829-007	20	2.18	0.13	SL	
1	25	9829-010	25	2.41	0.13	SL	
1 ¼	25	9829-012	25	2.64	0.12	SL	
1 ½	25	9829-015	10	2.90	0.13	SL	
2	25	9829-020	5	3.14	0.12	SL	
2 ½	25	9829-025	5	3.75	0.16	SL	
3	25	9829-030	5	4.05	0.25	SL	
4	25	9829-040	5	4.79	0.25	SL	
6	25	9829-060	2	6.41	0.34	SL	
8	25	9829-080	2	8.40	0.34	SL	
10	02	9829-100	2	10.54	0.50	SL	
12	02	9829-120	1	12.54	0.50	SL	
14	06	9829-140N	1	17.75	3.75	FAB	

table continued next page



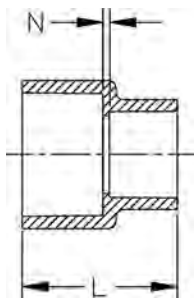
Size [inch]	P/L	Code	Pack Qty	L [inch]	N [inch]	Design	
16	06	9829-160N	1	20.25	4.25	FAB	
18	06	9829-180N	1	22.75	4.75	FAB	
20	06	9829-200N	1	25.25	5.25	FAB	
24	06	9829-240N	1	30.25	6.25	FAB	



Reducing Coupling (S x S)

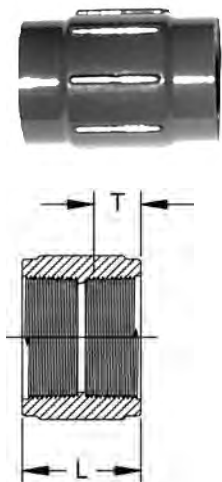
Size [inch]	P/L	Code	Pack Qty	L [inch]	N [inch]	Design	
¾ - ½	25	9829-101	25	2.16	0.14	HS	
1 - ½	25	9829-130	25	2.12	0.09	HS	
1 - ¾	25	9829-131	25	2.26	0.12	HS	
1 ½ - ½	25	9829-209FB	15	2.93	0.64	BUSH	
1 ½ - ¾	25	9829-210FB	15	2.93	0.54	BUSH	
1 ½ - 1	25	9829-211	15	2.66	0.10	HS	
1 ½ - 1 ¼	25	9829-212	20	2.82	0.10	HS	
2 - ½	25	9829-247FB	5	3.39	0.87	BUSH	
2 - ¾		9829-248	5	3.39	0.77		
2 - 1	25	9829-249	5	3.12	0.33	HS	
2 - 1 ¼	25	9829-250	5	3.37	0.52	HS	
2 - 1 ½	25	9829-251	5	3.05	0.10	HS	
2 ½ - 1 ½	25	9829-291	5	3.30	0.13	HS	
2 ½ - 2	25	9829-292FB	5	4.00	0.65	BUSH	
3 - 1 ½	25	9829-337FB	5	3.91	0.56	BUSH	
3 - 2	25	9829-338	5	3.61	0.16	HS	
3 - 2 ½	25	9829-339FB	5	4.58	0.64	BUSH	
4 - 2	25	9829-420FB	5	4.94	1.12	BUSH	
4 - 2 ½	25	9829-421FB	5	4.92	0.65	BUSH	
4 - 3	25	9829-422	5	4.39	0.26	HS	
6 - 4	25	9829-532	2	10.25	3.50	HS	
8 - 4	25	9829-582FB	1	8.75	2.59	BUSH	
8 - 6	25	9829-585	2	9.12	2.07	HS	
10 - 6	02	9829-626FB	1	11.17	3.07	BUSH	
10 - 8	02	9829-628FB	1	11.17	2.07	BUSH	
12 - 4	06	9829-663N	1			FAB	
12 - 6	06	9829-666N	1			FAB	
12 - 8	02	9829-668FB	1	13.17	3.13	BUSH	
12 - 10	06	9829-670N	1	15.00	4.00	FAB	
12 - 10	02	9829-670FB	1	13.17	2.13	BUSH	
14 - 4	06	9829-696N	1			FAB	
14 - 6	06	9829-698N	1	21.00	11.00	FAB	
14 - 8	06	9829-700N	1	21.00	10.00	FAB	
14 - 10	06	9829-702N	1	17.00	5.00	FAB	
14 - 12	06	9829-704N	1	16.50	3.50	FAB	
16 - 4	06	9829-730N	1			FAB	
16 - 6	06	9829-732N	1			FAB	
16 - 8	06	9829-734N	1			FAB	
16 - 10	06	9829-736N	1			FAB	
16 - 12	06	9829-738N	1	19.25	5.25	FAB	
16 - 14	06	9829-740N	1	19.50	4.50	FAB	
18 - 4	06	9829-784N	1	48.50	37.50	FAB	
18 - 6	06	9829-786N	1	36.00	24.00	FAB	
18 - 8	06	9829-788N	1	42.50	29.50	FAB	
18 - 10	06	9829-790N	1	33.50	19.50	FAB	
18 - 12	06	9829-792N	1	22.00	7.00	FAB	
18 - 14	06	9829-794N	1	22.25	6.25	FAB	
18 - 16	06	9829-796N	1	21.75	4.75	FAB	
20 - 4	06	9829-814N	1	60.50	48.50	FAB	
20 - 6	06	9829-816N	1	55.50	42.50	FAB	
20 - 8	06	9829-818N	1	56.25	42.25	FAB	
20 - 10	06	9829-820N	1	47.25	32.25	FAB	
20 - 12	06	9829-822N	1	37.00	21.00	FAB	

table continued next page



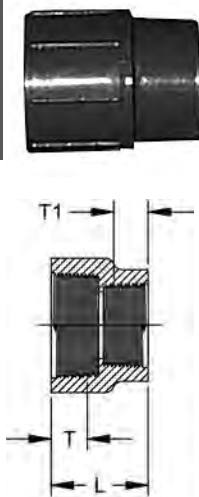
Size [inch]	P/L	Code	Pack Qty	L [inch]	N [inch]	Design	
20 - 14	06	9829-824N	1	37.25	20.25	FAB	
20 - 16	06	9829-826N	1	24.50	6.50	FAB	
20 - 18	06	9829-828N	1	24.00	5.00	FAB	
24 - 4	06	9829-904N	1	66.00	52.00	FAB	
24 - 6	06	9829-906N	1	61.00	46.00	FAB	
24 - 8	06	9829-908N	1	52.00	36.00	FAB	
24 - 10	06	9829-910N	1	52.75	35.75	FAB	
24 - 12	06	9829-912N	1	42.50	24.50	FAB	
24 - 14	06	9829-914N	1	42.75	23.75	FAB	
24 - 16	06	9829-916N	1	42.25	22.25	FAB	
24 - 18	06	9829-918N	1	29.50	8.50	FAB	
24 - 20	06	9829-920N	1	29.25	7.25	FAB	

Coupling (FPT x FPT)

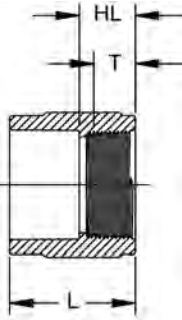


Size [inch]	P/L	Code	Pack Qty	L [inch]	T [inch]	Design	
¼	25	9830-002	50	1.30	0.40	HS	
⅜	25	9830-003	50	1.34	0.41	HS	
½	25	9830-005	25	1.66	0.53	HS	
¾	25	9830-007	25	1.73	0.55	HS	
1	25	9830-010	25	2.10	0.68	HS	
1 ¼	25	9830-012	25	2.19	0.71	HS	
1 ½	25	9830-015	10	2.22	0.72	HS	
2	25	9830-020	5	2.29	0.76	HS	
3	25	9830-030	5	3.57	1.20	HS	
4	25	9830-040	5	3.73	1.30	HS	

Reducing Coupling (FPT x FPT)

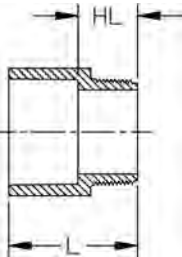


Size [inch]	P/L	Code	Pack Qty	L [inch]	T [inch]	T1 [inch]	Design	
½ - ¼	25	9830-072	50	1.45	0.53	0.40	HS	
½ - ⅜	25	9830-073	50	1.46	0.53	0.41	HS	
¾ - ½	25	9830-101	25	1.69	0.55	0.53	HS	
1 - ½	25	9830-130	25	1.83	0.68	0.53	HS	
1 - ¾	25	9830-131	25	1.88	0.68	0.55	HS	
1 ½ - 1	25	9830-211	20	1.91	0.71	0.68	HS	



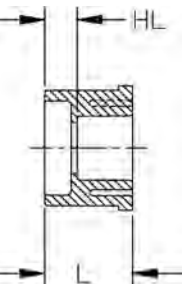
Female Adapter (S x FPT)

Size [inch]	P/L	Code	Pack Qty	HL [inch]	L [inch]	T [inch]	Design
1/4	25	9835-002	50	0.75	1.43	0.40	HS
1/2	25	9835-005	25	0.91	1.79	0.53	HS
3/4	25	9835-007	20	0.95	1.96	0.55	HS
1	25	9835-010	25	1.11	2.26	0.68	HS
1 1/4	25	9835-012	10	1.16	2.44	0.71	HS
1 1/2	25	9835-015	10	1.19	2.58	0.72	HS
2	25	9835-020	5	1.23	2.74	0.76	HS
3	25	9835-030	5	1.91	3.82	1.20	HS
4	25	9835-040	5	2.02	4.29	1.30	HS
6		9835-060N	1	4.50	7.50	1.51	
8		9835-080N	1	4.25	8.50	1.71	
10		9835-100N	1	5.00	10.00	2.00	
12		9835-120N	1	5.13	11.13	2.13	



Male Adapter (S x MPT)

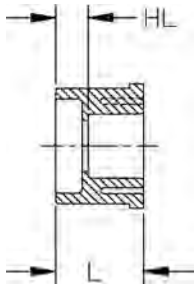
Size [inch]	P/L	Code	Pack Qty	HL [inch]	L [inch]	Design
1/2	25	9836-005	50	0.98	1.86	HS
3/4	25	9836-007	25	1.00	2.04	SL
1	25	9836-010	25	1.21	2.39	HS
1 1/4	25	9836-012	15	1.29	2.56	HS
1 1/2	25	9836-015	15	1.32	2.72	HS
2	25	9836-020	5	1.35	2.88	HS
3	25	9836-030	5	2.02	3.92	HS
4	25	9836-040	5	2.08	4.40	HS
6		9836-060N	1	3.25	6.25	
8		9836-080N	1	3.50	7.50	
10		9836-100N	1	4.18	9.18	
12		9836-120N	1	4.63	10.63	



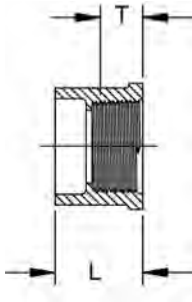
Flush Style Reducer Bushing (Spg x S)

Size [inch]	P/L	Code	Pack Qty	HL [inch]	L [inch]	Design
1/2 - 1/4	25	9837-072	50	0.46	1.14	FLUSH
1/2 - 3/8	25	9837-073	50	0.32	1.10	FLUSH
3/4 - 1/2	25	9837-101	50	0.40	1.29	FLUSH
1 - 1/2	25	9837-130	50	0.54	1.42	FLUSH
1 - 3/4	25	9837-131	50	0.44	1.42	FLUSH
1 1/4 - 1/2	25	9837-166	25	0.66	1.56	FLUSH
1 1/4 - 3/4	25	9837-167	25	0.55	1.57	FLUSH
1 1/4 - 1	25	9837-168	25	0.42	1.57	FLUSH
1 1/2 - 1/2	25	9837-209	25	0.77	1.68	FLUSH
1 1/2 - 3/4	25	9837-210	25	0.67	1.69	FLUSH
1 1/2 - 1	25	9837-211	25	0.55	1.68	FLUSH
1 1/2 - 1 1/4	25	9837-212	25	0.42	1.70	FLUSH
2 - 1/2	25	9837-247	10	0.88	1.79	FLUSH
2 - 3/4	25	9837-248	10	0.78	1.81	FLUSH
2 - 1	25	9837-249	10	0.66	1.81	FLUSH
2 - 1 1/4	25	9837-250	10	0.56	1.82	FLUSH
2 - 1 1/2	25	9837-251	10	0.40	1.80	FLUSH
2 1/2 - 1 1/2	25	9837-291	5	0.96	2.43	FLUSH
2 1/2 - 2	25	9837-292	5	0.55	2.13	FLUSH
3 - 1	25	9837-335FB	5	1.53	2.68	BUSH
3 - 1 1/2	25	9837-337	5	0.92	2.43	FLUSH
3 - 2	25	9837-338	5	0.87	2.43	FLUSH
3 - 2 1/2	25	9837-339	5	0.39	2.23	FLUSH
4 - 2	25	9837-420	5	1.15	2.72	FLUSH
4 - 3	25	9837-422	5	0.77	2.76	FLUSH
6 - 3/4	25	9837-524FB	2			BUSH

table continued next page

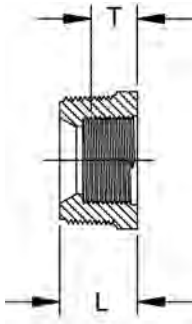


Size [inch]	P/L	Code	Pack Qty	HL [inch]	L [inch]	Design	
6 - 1	25	9837-525FB	2			BUSH	
6 - 1 ½	25	9837-527FB	2			BUSH	
6 - 2	25	9837-528FB	2			BUSH	
6 - 2 ½	25	9837-529FB	2			BUSH	
6 - 3	25	9837-530	2	1.79	3.66	FLUSH	
6 - 4	25	9837-532	2	1.13	3.66	FLUSH	
8 - 1 ½	25	9837-577FB	1			BUSH	
8 - 2	25	9837-578FB	1			BUSH	
8 - 3	25	9837-580FB	1			BUSH	
8 - 4	25	9837-582FB	1			BUSH	
8 - 6	25	9837-585	1	1.56	4.66	FLUSH	
10 - 2	25	9837-619FB	1			BUSH	
10 - 3	25	9837-621FB	1			BUSH	
10 - 4	02	9837-623FB	1	3.75	6.00	BUSH	
10 - 4	06	9837-623N	1	3.25	5.25	FAB	
10 - 6	02	9837-626	1	2.57	5.66	FLUSH	
10 - 8	02	9837-628	1	1.57	5.66	FLUSH	
12 - 3	25	9837-662FB	1			BUSH	
12 - 4	25	9837-663FB	1			BUSH	
12 - 4	06	9837-663N	1			FAB	
12 - 6	02	9837-666FB	1	4.19	7.29	BUSH	
12 - 8	02	9837-668	1	2.63	6.72	FLUSH	
12 - 10	02	9837-670	1	1.63	6.72	FLUSH	
14 - 4	06	9837-696N	1	5.25	7.25	FAB	
14 - 6	06	9837-698N	1	4.25	7.25	FAB	
14 - 8	06	9837-700N	1	3.25	7.25	FAB	
14 - 10	06	9837-702N	1	2.25	7.25	FAB	
14 - 12	06	9837-704N	1	1.25	7.25	FAB	
16 - 4	06	9837-730N	1	6.25	8.25	FAB	
16 - 6	06	9837-732N	1	5.25	8.25	FAB	
16 - 8	06	9837-734N	1	4.25	8.25	FAB	
16 - 10	06	9837-736N	1	3.25	8.25	FAB	
16 - 12	06	9837-738N	1	2.25	8.25	FAB	
16 - 14	06	9837-740N	1	1.25	8.25	FAB	
18 - 4	06	9837-784N	1	7.25	9.25	FAB	
18 - 6	06	9837-786N	1	6.25	9.25	FAB	
18 - 8	06	9837-788N	1	5.25	9.25	FAB	
18 - 10	06	9837-790N	1	4.25	9.25	FAB	
18 - 12	06	9837-792N	1	3.25	9.25	FAB	
18 - 14	06	9837-794N	1	2.25	9.25	FAB	
18 - 16	06	9837-796N	1	1.25	9.25	FAB	
20 - 4	06	9837-814N	1	8.25	10.25	FAB	
20 - 6	06	9837-816N	1	7.25	10.25	FAB	
20 - 8	06	9837-818N	1	6.25	10.25	FAB	
20 - 10	06	9837-820N	1	5.25	10.25	FAB	
20 - 12	06	9837-822N	1	4.25	10.25	FAB	
20 - 14	06	9837-824N	1	3.25	10.25	FAB	
20 - 16	06	9837-826N	1	2.25	10.25	FAB	
20 - 18	06	9837-828N	1	1.25	10.25	FAB	
24 - 4	06	9837-904N	1	10.25	12.25	FAB	
24 - 6	06	9837-906N	1	9.25	12.25	FAB	
24 - 8	06	9837-908N	1	8.25	12.25	FAB	
24 - 10	06	9837-910N	1	7.25	12.25	FAB	
24 - 12	06	9837-912N	1	6.25	12.25	FAB	
24 - 14	06	9837-914N	1	5.25	12.25	FAB	
24 - 16	06	9837-916N	1	4.25	12.25	FAB	
24 - 18	06	9837-918N	1	3.25	12.25	FAB	
24 - 20	06	9837-920N	1	2.25	12.25	FAB	



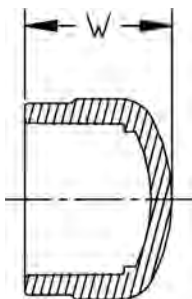
Flush Style Reducer Bushing (Spq x FPT)

Size [inch]	P/L	Code	Pack Qty	L [inch]	T [inch]	Design
½ - ¼	25	9838-072	50	1.14	0.40	FLUSH
½ - ⅜	25	9838-073	50	1.12	0.41	FLUSH
¾ - ¼	25	9838-098	50	1.21	0.40	FLUSH
¾ - ½	25	9838-101	50	1.28	0.53	FLUSH
1 - ½	25	9838-130	50	1.42	0.53	FLUSH
1 - ¾	25	9838-131	50	1.41	0.55	FLUSH
1 ¼ - ½	25	9838-166	15	1.53	0.53	FLUSH
1 ¼ - ¾	25	9838-167	15	1.56	0.55	FLUSH
1 ¼ - 1	25	9838-168	15	1.55	0.68	FLUSH
1 ½ - ½	25	9838-209	15	1.68	0.53	FLUSH
1 ½ - ¾	25	9838-210	15	1.68	0.55	FLUSH
1 ½ - 1	25	9838-211	15	1.69	0.68	FLUSH
1 ½ - 1 ¼	25	9838-212	15	1.68	0.71	FLUSH
2 - ½	25	9838-247	10	1.80	0.53	FLUSH
2 - ¾	25	9838-248	10	1.80	0.55	FLUSH
2 - 1	25	9838-249	10	1.79	0.68	FLUSH
2 - 1 ¼	25	9838-250	10	1.78	0.71	FLUSH
2 - 1 ½	25	9838-251	10	1.79	0.72	FLUSH
2 ½ - 1 ½	25	9838-291	5	2.11	0.72	FLUSH
2 ½ - 2	25	9838-292	5	2.20	0.76	FLUSH
3 - 2	25	9838-338	5	2.44	0.76	FLUSH
4 - 2	25	9838-420	5	2.73	0.76	FLUSH
4 - 3	25	9838-422	5	2.75	0.38	FLUSH



Flush Style Reducer Bushing (MPT x FPT)

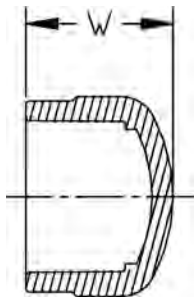
Size [inch]	P/L	Code	Pack Qty	L [inch]	T [inch]	Style
¾ - ¼	25	9839-052	50	0.79	0.40	
½ - ¼	25	9839-072	50	0.96	0.40	
½ - ⅜	25	9839-073	50	0.94	0.41	
¾ - ⅜	25	9839-099	50	1.02	0.41	
¾ - ½	25	9839-101	50	1.08	0.53	
1 - ½	25	9839-130	25	1.24	0.53	
1 - ¾	25	9839-131	25	1.27	0.55	
1 ¼ - 1	25	9839-168	25	1.30	0.68	
1 ½ - ¾	25	9839-210	25	1.33	0.55	
1 ½ - 1	25	9839-211	25	1.34	0.68	
1 ½ - 1 ¼	25	9839-212	25	1.32	0.71	
2 - 1	25	9839-249	10	1.43	0.68	
2 - 1 ¼	25	9839-250	10	1.43	0.71	
2 - 1 ½	25	9839-251	10	1.35	0.72	



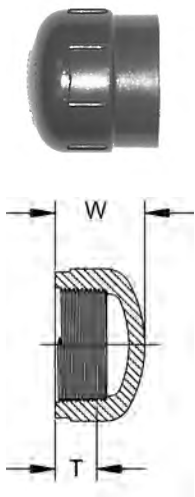
Cap (S)

Size [inch]	P/L	Code	Pack Qty	W [inch]	Design
½	25	9847-005	50	1.29	HS
¾	25	9847-007	25	1.46	HS
1	25	9847-010	25	1.67	HS
1 ¼	25	9847-012	15	1.88	HS
1 ½	25	9847-015	10	2.09	HS
2	25	9847-020	5	2.32	HS
2 ½	25	9847-025	5	2.73	HS
3	25	9847-030	5	3.05	HS
4	25	9847-040	5	3.67	HS
6	25	9847-060	2	4.93	HS
8	25	9847-080	2	6.29	SL
10	02	9847-100	1	7.88	SL
12	02	9847-120	1	9.38	SL
14	06	9847-140N	1	5.75	FAB

table continued next page

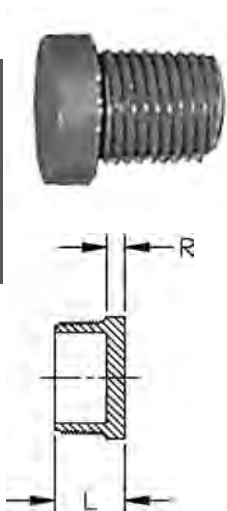


Size [inch]	P/L	Code	Pack Qty	W [inch]	Design	
16	06	9847-160N	1	7.00	FAB	
18	06	9847-180N	1	8.25	FAB	
20	06	9847-200N	1	8.75	FAB	
24	06	9847-240N	1	10.25	FAB	



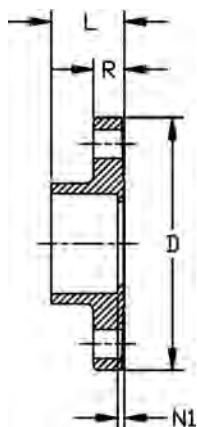
Cap (FPT)

Size [inch]	P/L	Code	Pack Qty	W [inch]	T [inch]	Design	
¼	25	9848-002	50	0.93	0.40	HS	
⅜	25	9848-003	50	0.95	0.41	HS	
½	25	9848-005	50	1.16	0.53	HS	
¾	25	9848-007	25	1.24	0.55	HS	
1	25	9848-010	25	1.50	0.68	HS	
1 ¼	25	9848-012	15	1.61	0.71	HS	
1 ½	25	9848-015	10	1.66	0.72	HS	
2	25	9848-020	5	1.84	0.76	HS	



Plug (MPT)

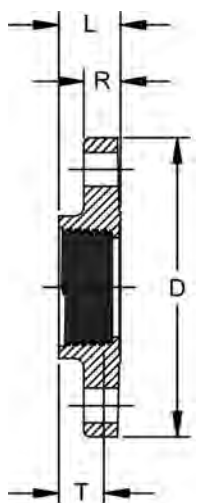
Size [inch]	P/L	Code	Pack Qty	L [inch]	R [inch]	Design	
¼	25	9850-002	50	0.81	0.22	HS	
⅜	25	9850-003	50	0.83	0.22	HS	
½	25	9850-005	50	0.97	0.22	HS	
¾	25	9850-007	50	1.04	0.25	HS	
1	25	9850-010	25	1.25	0.27	HS	
1 ½	25	9850-015	20	1.38	0.34	HS	
2	25	9850-020	10	1.46	0.40	HS	
2 ½		9850-025S	10	0.38	2.00		
3	25	9850-030	5	2.00	0.38	HS	
4	25	9850-040	5	2.15	0.38	HS	
6		9850-060N	1	0.75	2.00		
8		9850-080N	1	0.75	2.00		
10		9850-100N	1	0.75	2.00		
12		9850-120N	1	0.75	2.00		



Flange - One Piece (S)

150 psi @ 73°F (10.3 bar @ 22.7°C)
HC = Honeycomb (Front)

Size [inch]	P/L	Code	Pack Qty	# holes	Bolt Dia. [inch]	bolt cir. dia. [inch]	D [inch]	L [inch]	N1 [inch]	R [inch]	Design
1/2	25	9851-005	5	4	1/2	2.38	3.50	1.03	0.15	0.43	SOLID
3/4	25	9851-007	5	4	1/2	2.75	3.88	1.21	0.19	0.44	SOLID
1	25	9851-010	5	4	1/2	3.13	4.23	1.29	0.15	0.56	HC
1 1/4	25	9851-012	5	4	1/2	3.50	4.63	1.42	0.16	0.56	HC
1 1/2	25	9851-015	5	4	1/2	3.88	5.00	1.54	0.16	0.71	HC
2	25	9851-020	5	4	5/8	4.75	6.00	1.77	0.16	0.74	HC
2 1/2	25	9851-025	5	4	5/8	5.50	7.00	2.01	0.19	0.89	SOLID
3	25	9851-030	5	4	5/8	6.00	7.50	2.20	0.31	1.12	WEB
4	25	9851-040	5	8	5/8	7.50	9.00	2.55	0.22	1.27	WEB
6	25	9851-060	2	8	3/4	9.50	11.00	3.86	0.34	1.45	HC



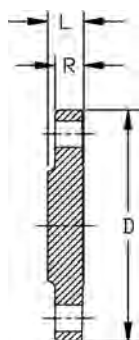
Flange - One Piece (FPT)

150 psi @ 73°F (10.3 bar @ 22.7°C)
HC = Honeycomb (Front)

Size [inch]	P/L	Code	Pack Qty	# holes	Bolt Dia. [inch]	bolt cir. dia. [inch]	D [inch]	L [inch]	T [inch]	R [inch]	Design
1/2	25	9852-005	5	4	1/2	2.38	3.50	0.94	0.53	0.44	SOLID
3/4	25	9852-007	5	4	1/2	2.75	3.88	0.95	0.55	0.51	SOLID
1	25	9852-010	5	4	1/2	3.13	4.25	1.13	0.68	0.55	HC
1 1/4	25	9852-012	5	4	1/2	3.50	4.63	1.19	0.71	0.63	HC
1 1/2	25	9852-015	5	4	1/2	3.88	5.00	1.21	0.72	0.72	HC
2	25	9852-020	5	4	5/8	4.75	6.00	1.23	0.76	0.75	HC
2 1/2	25	9852-025	5	4	5/8	5.50	7.00	1.75	1.14	0.80	HC
3	25	9852-030	5	4	5/8	6.00	7.50	1.88	1.20	0.98	WEB
4	25	9852-040	5	8	5/8	7.50	9.00	1.99	1.30	1.24	WEB

Flange (Blind)

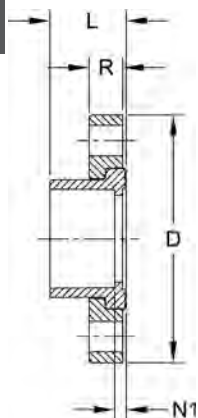
150 psi @ 73°F (10.3 bar @ 22.7°C)
HC = Honeycomb (Front)



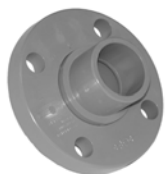
Size [inch]	P/L	Code	Pack Qty	# holes	Bolt Dia. [inch]	bolt cir. dia. [inch]	D [inch]	L [inch]	R [inch]	Design
1/2	25	9853-005	5	4	1/2	2.38	3.50	0.50	0.43	HC
3/4	25	9853-007	5	4	1/2	2.75	3.88	0.50	0.44	HC
1	25	9853-010	5	4	1/2	3.13	4.25	0.60	0.57	HC
1 1/4	25	9853-012	5	4	1/2	3.50	4.63	0.63	0.56	HC
1 1/2	25	9853-015	5	4	1/2	3.88	5.00	0.82	0.71	HC
2	25	9853-020	5	4	5/8	4.75	6.00	0.92	0.74	HC
2 1/2	25	9853-025	5	4	5/8	5.50	7.00	0.96	0.78	HC
3	25	9853-030	5	4	5/8	6.00	7.50	1.03	0.89	HC
4	25	9853-040	5	8	5/8	7.50	9.00	1.35	1.12	HC
6	25	9853-060	2	8	3/4	9.50	11.00	1.49	1.27	HC
8	25	9853-080	2	8	3/4	11.75	13.50	1.63	1.45	HC
10		9853-100N	1	12	7/8	14.25	16.00	1.00	1.00	
12		9853-120N	1	12	7/8	17.00	19.00	1.00	1.00	
14	06	9853-140N	1	12	1	18.75	21.00	1.00	1.00	SOLID
16	06	9853-160N	1	16	1	21.25	23.50	1.00	1.00	SOLID
18	06	9853-180N	1	16	1 1/8	22.75	25.00	1.00	1.00	SOLID
20	06	9853-200N	1	20	1 1/8	25.00	27.50	1.00	1.00	SOLID
24	06	9853-240N	1	20	1 1/4	29.50	32.00	1.00	1.00	SOLID

Van Stone Flange (S)

150 psi @ 73°F (10.3 bar @ 22.7°C)
HC = Honeycomb (Front)

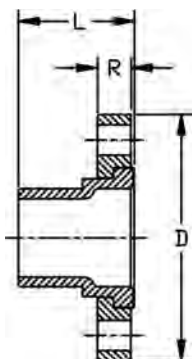


Size [inch]	P/L	Code	Pack Qty	# holes	Bolt Dia. [inch]	bolt cir. dia. [inch]	D [inch]	L [inch]	N1 [inch]	R [inch]	Design
1/2	25	9854-005	5	4	1/2	2.38	3.50	1.03	0.11	0.57	HC
3/4	25	9854-007	5	4	1/2	2.75	3.88	1.15	0.13	0.58	HC
1	25	9854-010	5	4	1/2	3.13	4.25	1.38	0.11	0.66	HC
1 1/4	25	9854-012	5	4	1/2	3.50	4.63	1.45	0.14	0.69	HC
1 1/2	25	9854-015	5	4	1/2	3.88	5.00	1.59	0.15	0.76	HC
2	25	9854-020	5	4	5/8	4.75	6.00	1.76	0.20	0.82	HC
2 1/2	25	9854-025	5	4	5/8	5.50	7.00	2.05	0.22	0.98	HC
3	25	9854-030	5	4	5/8	6.00	7.50	2.25	0.30	1.02	HC
4	25	9854-040	5	8	5/8	7.50	9.00	2.65	0.34	1.11	HC
6	25	9854-060	2	8	3/4	9.50	11.00	3.59	0.48	1.27	HC
8	25	9854-080	2	8	3/4	11.75	13.50	4.63	0.50	1.73	HC
10	02	9854-100	2	12	7/8	14.25	16.00	5.63	0.50	1.73	HC
12	02	9854-120	2	12	7/8	17.00	19.00	6.69	0.56	1.73	HC
14	06	9854-140N	1	12	1	18.75	21.00	11.75	0.50	4.75	FAB
16	06	9854-160N	1	16	1	21.25	23.50	13.50	0.50	5.50	FAB
18	06	9854-180N	1	16	1 1/8	22.75	25.00	15.50	0.50	6.50	FAB
20	06	9854-200N	1	20	1 1/8	25.00	27.50	17.25	0.50	7.25	FAB
24	06	9854-240N	1	20	1 1/4	29.50	32.00	19.50	0.50	7.50	FAB



Van Stone Flange (Spg)

150 psi @ 73°F (10.3 bar @ 22.7°C)
HC = Honeycomb (Front)

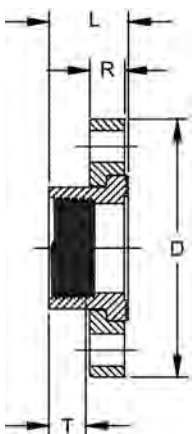


Size [inch]	P/L	Code	Pack Qty	# holes	Bolt Dia. [inch]	bolt cir. dia. [inch]	D [inch]	L [inch]	R [inch]	Design
1/2	25	9856-005	5	4	1/2	2.38	3.50	1.65	0.57	HC
3/4	25	9856-007	5	4	1/2	2.75	3.88	1.78	0.58	HC
1	25	9856-010	5	4	1/2	3.13	4.25	2.02	0.66	HC
1 1/4	25	9856-012	5	4	1/2	3.50	4.63	2.20	0.69	HC
1 1/2	25	9856-015	5	4	1/2	3.88	5.00	2.40	0.76	HC
2	25	9856-020	5	4	5/8	4.75	6.00	2.72	0.82	HC
2 1/2	25	9856-025	5	4	5/8	5.50	7.00	3.19	0.98	HC
3	25	9856-030	5	4	5/8	6.00	7.50	3.52	1.02	HC
4	25	9856-040	5	8	5/8	7.50	9.00	4.02	1.11	HC
6	25	9856-060	2	8	3/4	9.50	11.00	5.09	1.37	HC
8	25	9856-080	1	8	3/4	11.75	13.50	6.85	1.73	HC
10	02	9856-100	1	12	7/8	14.25	16.00	8.33	1.73	HC
12	02	9856-120	1	12	7/8	17.00	19.00	9.54	1.73	HC
14	06	9856-140N	1	12	1	18.75	21.00	13.00	0.50	FAB
16	06	9856-160N	1	16	1	21.25	23.50	14.00	0.50	FAB
18	06	9856-180N	1	16	1 1/8	22.75	25.00	16.00	0.50	FAB
20		9856-200N	1	20	1 1/8	25.00	27.50	18.00	0.50	FAB
24	06	9856-240N	1	20	1 1/4	29.50	32.00	20.00	0.50	FAB



Van Stone Flange (FPT)

150 psi @ 73°F (10.3 bar @ 22.7°C)
HC = Honeycomb (Front)



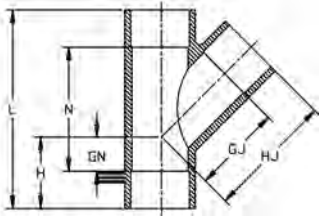
Size [inch]	P/L	Code	Pack Qty	# holes	Bolt Dia. [inch]	bolt cir. dia. [inch]	D [inch]	L [inch]	T [inch]	R [inch]	Design
1	25	9855-010	5	4	1/2	3.13	4.25	1.38	0.68	0.66	HC
1 1/4	25	9855-012	5	4	1/2	3.50	4.63	1.49	0.71	0.69	HC
1 1/2	25	9855-015	5	4	1/2	3.88	5.00	1.61	0.72	0.76	HC
2	25	9855-020	5	4	5/8	4.75	6.00	1.75	0.76	0.82	HC

45° Wye (S x S x S)

1-1/2" - 2" 235 psi @ 72°F (16.2 bar @ 22.7°C)

3" - 6" 150 psi @ 72°F (10.3 bar @ 22.7°C)

8" & Larger 100 psi @ 72°F (6.9 bar @ 22.7°C)



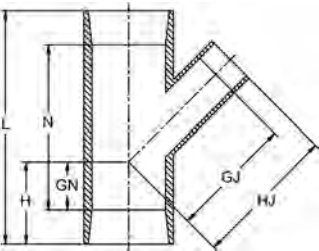
Size [inch]	P/L	Code	Pack Qty	GJ [inch]	GN [inch]	H [inch]	HJ [inch]	L [inch]	N [inch]	Design
1 1/2	25	9870-015	20	2.88	1.12	2.51	4.26	6.77	4.00	SL
2	25	9870-020	10	3.61	1.38	2.89	5.16	8.05	5.00	SL
3	25	9870-030	4	5.00	1.66	3.55	6.88	10.46	6.63	SL
4	25	9870-040	4	6.38	1.84	4.20	8.75	12.96	8.25	SL
6	25	9870-060	2	8.50	1.81	4.86	11.59	16.50	10.39	HS
8		9870-080S	1	11.06	2.06	6.06	15.25	21.25	13.31	
10		9875-100N	1	16.98	5.73	10.73	21.98	33.21	23.21	
12		9875-120N	1	19.39	6.14	12.14	25.39	38.03	26.03	
14	06	9875-140N	1	25.75	7.00	14.00	32.75	41.75	27.75	FAB
16	06	9875-160N	1	28.88	7.75	15.75	36.88	47.25	31.25	FAB
18	06	9875-180N	1	32.50	8.50	17.50	41.50	53.00	35.00	FAB
20	06	9875-200N	1	35.50	9.50	19.50	45.50	58.75	38.75	FAB
24	06	9875-240N	1	42.00	11.00	23.00	54.00	70.00	46.00	FAB

Reducing 45° Wye (S x S x S)

2" 235 psi @ 72°F (16.2 bar @ 22.7° C)

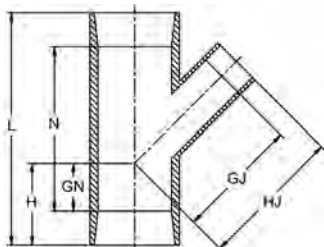
3" - 6" 150 psi @ 72°F (10.3 bar @ 22.7°C)

8" 100 psi @ 72°F (6.9 bar @ 22.7°C)



Size [inch]	P/L	Code	Pack Qty	GJ [inch]	GN [inch]	H [inch]	HJ [inch]	L [inch]	N [inch]	Design
2 - 1 1/2	25	9870-251FB	10	4.03	1.38	2.88	5.43	8.02	5.00	BUSH
3 - 1 1/2	25	9870-337FB	4	5.92	1.87	3.77	7.43	10.46	6.65	BUSH
3 - 2	25	9870-338FB	4	5.87	1.87	3.77	7.43	10.46	6.65	BUSH
4 - 2	25	9870-420FB	4	7.53	1.88	4.20	9.10	12.91	8.25	BUSH
4 - 3	25	9870-422FB	4	7.15	1.88	4.20	9.14	12.91	8.25	BUSH
6 - 3	25	9870-530FB	2	9.95	1.87	4.91	12.09	16.50	10.39	BUSH
6 - 4	25	9870-532	2	7.18	1.87	4.91	9.45	16.50	10.39	HS
8 - 4	25	9870-582FB	1	13.95	2.06	6.06	16.21	21.25	13.31	BUSH
8 - 6	25	9870-585FB	1	12.62	2.06	6.06	15.72	21.25	13.31	BUSH
10 - 4	06	9875-623N	1	14.00	1.25	6.25	16.00	23.00	13.00	FAB
10 - 6	06	9875-626N	1	16.13	2.75	7.75	19.13	26.00	16.00	FAB
10 - 8	06	9875-628N	1	17.50	4.00	9.00	21.50	28.75	18.75	FAB
12 - 4	06	9875-663N	1	15.50	0.50	6.50	17.50	25.75	13.75	FAB
12 - 6	06	9875-666N	1	17.50	2.00	8.00	20.50	28.68	16.68	FAB
12 - 8	06	9875-668N	1	19.00	3.50	9.50	23.00	31.50	19.50	FAB
12 - 10	06	9875-670N	1	21.25	5.00	11.00	26.25	34.50	22.50	FAB
14 - 4	06	9875-696N	1	16.25	0.25	7.25	18.25	28.25	14.25	FAB
14 - 6	06	9875-698N	1	18.50	1.75	8.75	21.50	31.25	17.25	FAB
14 - 8	06	9875-700N	1	19.75	3.00	10.00	23.75	34.00	20.00	FAB
14 - 10	06	9875-702N	1	22.00	4.50	11.50	27.00	37.00	23.00	FAB
14 - 12	06	9875-704N	1	23.50	6.00	13.00	29.50	39.75	25.75	FAB
16 - 4	06	9875-730N	1	17.75	0.75	7.25	19.75	31.00	15.00	FAB
16 - 6	06	9875-732N	1	19.88	1.00	9.00	22.88	34.00	18.00	FAB
16 - 8	06	9875-734N	1	21.25	2.50	10.50	25.25	36.75	20.75	FAB
16 - 10	06	9875-736N	1	23.50	4.00	12.00	28.50	39.75	23.75	FAB
16 - 12	06	9875-738N	1	25.00	5.50	13.50	31.00	42.75	26.75	FAB
16 - 14	06	9875-740N	1	27.25	6.25	14.25	34.25	44.50	28.50	FAB
18 - 4	06	9875-784N	1	19.00	1.25	7.75	21.00	34.00	16.00	FAB
18 - 6	06	9875-786N	1	21.25	0.50	9.50	24.25	37.00	19.00	FAB
18 - 8	06	9875-788N	1	22.75	2.00	11.00	26.75	39.75	21.75	FAB
18 - 10	06	9875-790N	1	25.00	3.50	12.50	30.00	42.75	24.75	FAB
18 - 12	06	9875-792N	1	26.50	4.75	13.75	32.50	45.50	27.50	FAB
18 - 14	06	9875-794N	1	28.75	5.75	14.75	35.75	47.50	29.50	FAB
18 - 16	06	9875-796N	1	30.25	7.25	16.25	38.25	50.25	32.25	FAB
20 - 4	06	9875-814N	1	20.50	1.75	8.25	22.50	36.75	16.75	FAB
20 - 6	06	9875-816N	1	22.75	0.25	9.75	25.75	39.75	19.75	FAB
20 - 8	06	9875-818N	1	24.25	1.50	11.50	28.25	42.75	22.75	FAB

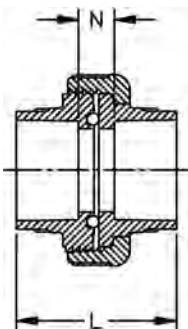
table continued next page



Size [inch]	P/L	Code	Pack Qty	GJ [inch]	GN [inch]	H [inch]	HJ [inch]	L [inch]	N [inch]	Design
20 - 10	06	9875-820N	1	26.50	3.00	13.00	31.50	45.75	25.75	FAB
20 - 12	06	9875-822N	1	28.00	4.25	14.25	34.00	48.50	28.50	FAB
20 - 14	06	9875-824N	1	30.25	5.25	15.25	37.25	50.25	30.25	FAB
20 - 16	06	9875-826N	1	31.75	6.50	16.50	39.75	53.00	33.00	FAB
20 - 18	06	9875-828N	1	34.00	8.00	18.00	43.00	56.00	36.00	FAB
24 - 4	06	9875-904N	1	23.25	3.00	9.00	25.25	42.50	18.50	FAB
24 - 6	06	9875-906N	1	25.50	1.50	10.50	28.50	45.50	21.50	FAB
24 - 8	06	9875-908N	1	27.00	0.00	12.00	31.00	48.25	24.25	FAB
24 - 10	06	9875-910N	1	29.25	1.75	13.75	34.25	51.25	27.25	FAB
24 - 12	06	9875-912N	1	30.60	3.25	15.25	36.60	54.25	30.25	FAB
24 - 14	06	9875-914N	1	33.00	4.00	16.00	40.00	56.00	32.00	FAB
24 - 16	06	9875-916N	1	34.50	5.50	17.50	42.50	58.75	34.75	FAB
24 - 18	06	9875-918N	1	36.75	6.75	18.75	45.75	61.50	37.50	FAB
24 - 20	06	9875-920N	1	38.25	8.25	20.25	48.25	64.50	40.50	FAB

Union Type 375 (S x S)

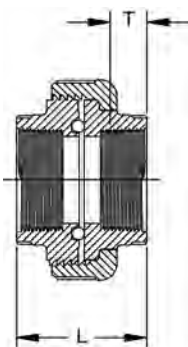
235 psi @ 73°F (16.2 bar @ 22.7°C)



Size [inch]	P/L	EPDM Code	FPM Code	Pack Qty	L [inch]	N [inch]
1/2	25	9897-375-005	9857-375-005	25	2.58	0.80
3/4	25	9897-375-007	9857-375-007	10	2.82	0.82
1	25	9897-375-010	9857-375-010	5	3.14	0.88
1 1/4	25	9897-375-012	9857-375-012	5	3.49	0.99
1 1/2	25	9897-375-015	9857-375-015	5	3.70	0.95
2	25	9897-375-020	9857-375-020	2	4.11	1.11

Union Type 375 (FPT X FPT)

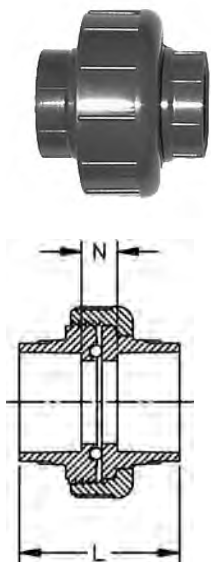
235 psi @ 73°F (16.2 bar @ 22.7°C)



Size [inch]	P/L	EPDM Code	FPM Code	Pack Qty	L [inch]	T [inch]
1/2	25	9898-375-005	9858-375-005	25	2.03	0.53
3/4	25	9898-375-007	9858-375-007	10	2.11	0.55
1	25	9898-375-010	9858-375-010	5	2.56	0.68
1 1/4	25	9898-375-012	9858-375-012	5	2.79	0.71
1 1/2	25	9898-375-015	9858-375-015	5	2.72	0.72
2	25	9898-375-020	9858-375-020	2	2.89	0.76

Union (S x S)

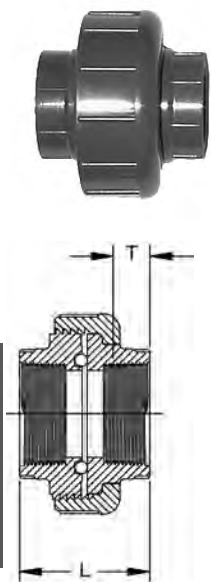
150 psi @ 73°F (10.3 bar @ 22.7°C)



Size [inch]	P/L	EPDM Code	FPM Code	Pack Qty	L [inch]	N [inch]	
3	25	9897-030	9857-030	1	4.75	0.99	
4	25	9897-040	9857-040	1	5.72	1.14	

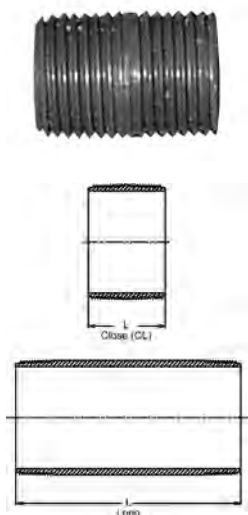
Union (FPT X FPT)

150 psi @ 73°F (10.3 bar @ 22.7°C)



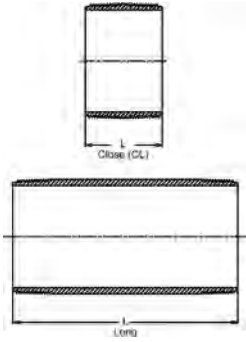
Size [inch]	P/L	EPDM Code	FPM Code	Pack Qty	L [inch]	T [inch]	
3	25	9898-030	9858-030	1	4.69	1.20	
4	25	9898-040	9858-040	1	5.62	1.30	

Nipple (MPT x MPT)



Inch [inch]	P/L	Code	Pack Qty	L [inch]	
1/2 x CL	25	9861-077	50	1.13	
1/2 x 2	25	9861-079	50	2.00	
1/2 x 3	25	9861-081	50	3.00	
1/2 x 4	25	9861-082	50	4.00	
1/2 x 5	25	9861-083	50	5.00	
1/2 x 6	25	9861-084	50	6.00	
3/4 x CL	25	9861-104	25	1.38	
3/4 x 2	25	9861-020	25	2.00	
3/4 x 3	25	9861-106	25	3.00	
3/4 x 4	25	9861-107	25	4.00	
3/4 x 5	25	9861-108	25	5.00	
3/4 x 6	25	9861-109	25	6.00	
1 x CL	25	9861-133	25	1.50	
1 x 2	25	9861-134	25	2.00	
1 x 3	25	9861-135	25	3.00	
1 x 4	25	9861-136	25	4.00	
1 x 5	25	9861-137	25	5.00	
1 x 6	25	9861-138	25	6.00	
1 1/4 x CL	25	9861-170	25	1.63	

table continued next page



Inch [inch]	P/L	Code	Pack Qty	L [inch]	
1 1/4 x 2	25	9861-171	25	2.00	
1 1/4 x 3	25	9861-172	25	3.00	
1 1/4 x 4	25	9861-173	25	4.00	
1 1/4 x 5	25	9861-174	25	5.00	
1 1/4 x 6	25	9861-175	25	6.00	
1 1/2 x CL	25	9861-213	25	1.75	
1 1/2 x 2	25	9861-214	25	2.00	
1 1/2 x 3	25	9861-215	25	3.00	
1 1/2 x 4	25	9861-216	25	4.00	
1 1/2 x 5	25	9861-217	25	5.00	
1 1/2 x 6	25	9861-218	25	6.00	
2 x CL	25	9861-251	25	2.00	
2 x 2 1/2	25	9861-252	25	2.50	
2 x 3	25	9861-253	25	3.00	
2 x 4	25	9861-254	25	4.00	
2 x 5	25	9861-255	25	5.00	
2 x 6	25	9861-256	25	6.00	
2 1/2 x CL	25	9861-291	5	2.50	
2 1/2 x 3	25	9861-292	5	3.00	
2 1/2 x 4	25	9861-295	5	4.00	
2 1/2 x 5	25	9861-296	5	5.00	
2 1/2 x 6	25	9861-297	5	6.00	
3 x CL	25	9861-338	5	2.63	
3 x 3	25	9861-340	5	3.00	
3 x 4	25	9861-341	5	4.00	
3 x 5	25	9861-342	5	5.00	
3 x 6	25	9861-343	5	6.00	
4 x CL	25	9861-422	5	2.88	
4 x 4	25	9861-423	5	4.00	
4 x 5	25	9861-425	5	5.00	
4 x 6	25	9861-426	5	6.00	

CPVC Valves

PVC-C ASTM/ANSI/BS

Hand-operated valves

Ball valve type 546 PVC-C With solvent cement sockets Inch ASTM Including 2 threaded union ends NPT

Model:

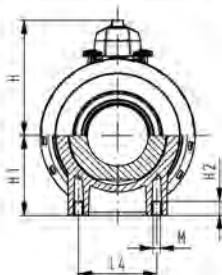
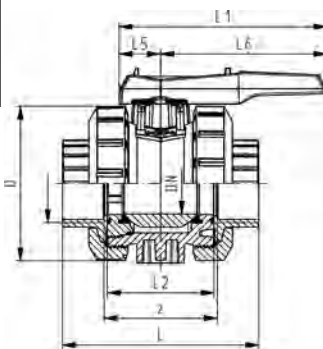
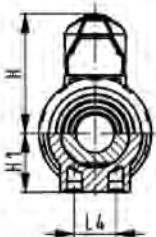
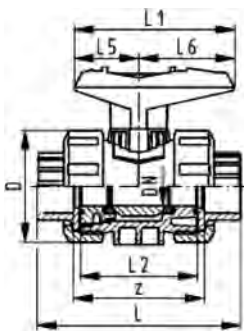
- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- Threaded valve ends are only enclosed for DN10/15-50
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



DN10/15 - 50



Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
3/8	10	16	71	163 546 301	2 32 541 803	1	0.190
1/2	15	16	185	163 546 302	2 32 541 803	1	0.242
3/4	20	16	350	163 546 303	2 32 541 803	1	0.349
1	25	16	700	163 546 304	2 32 541 803	1	0.512
1 1/4	32	16	1000	163 546 305	2 32 541 803	1	0.651
1 1/2	40	16	1600	163 546 306	2 32 541 803	1	1.158
2	50	16	3100	163 546 307	2 32 541 803	1	2.045
2 1/2	65	16	5000	163 546 308	2 32 541 603	1	5.400
3	80	16	7000	163 546 309	2 32 541 603	1	5.809
4	100	16	11000	163 546 310	2 32 541 603	1	9.544

Size [inch]	FPM Code	PF	SP	Weight [kg]
3/8	163 546 311	2 32 541 803	1	0.190
1/2	163 546 312	2 32 541 803	1	0.244
3/4	163 546 313	2 32 541 803	1	0.300
1	163 546 314	2 32 541 803	1	0.515
1 1/4	163 546 315	2 32 541 803	1	0.800
1 1/2	163 546 316	2 32 541 803	1	0.905
2	163 546 317	2 32 541 803	1	2.068
2 1/2	163 546 318	2 32 541 603	1	3.871
3	163 546 319	2 32 541 603	1	8.100
4	163 546 320	2 32 541 603	1	9.541

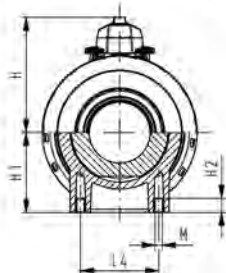
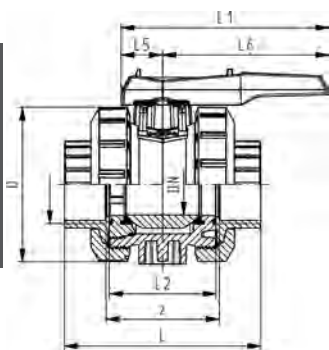
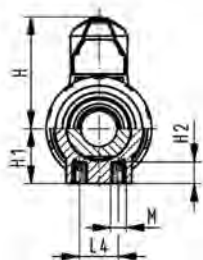
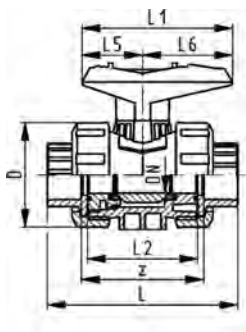
Size [inch]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	z [mm]
3/8	50	57	27	105	77	56	25	32	45	67
1/2	50	57	27	105	77	56	25	32	45	61
3/4	58	67	30	121	97	65	25	39	58	70
1	68	73	36	133	97	71	25	39	58	76
1 1/4	84	90	44	154	128	85	45	54	74	90
1 1/2	97	97	51	164	128	89	45	54	74	94

table continued next page

Size [inch]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	z [mm]	
2	124	116	64	183	152	101	45	66	87	107	
2 ½	166	149	85	233	270	136	70	64	206	144	
3	200	161	105	254	270	141	70	64	206	151	
4	238	178	123	301	320	164	120	64	256	174	



DN10/15 - 50



Ball valve type 546 PVC-C With mounting inserts With solvent cement sockets Inch ASTM Including 2 threaded union ends NPT

Model:

- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Threaded valve ends are only enclosed for DN10/15-50
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

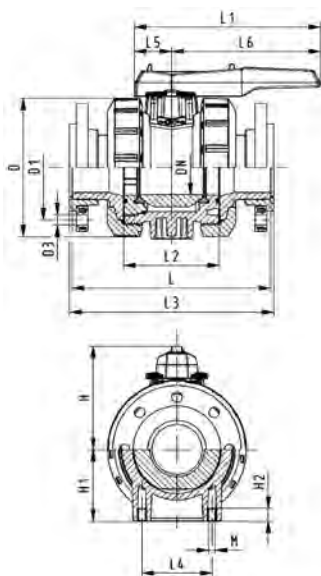
Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
3/8	10	16	71	163 546 341	2 32 541 803	1	0.194
1/2	15	16	185	163 546 342	2 32 541 803	1	0.248
3/4	20	16	350	163 546 343	2 32 541 803	1	0.358
1	25	16	700	163 546 344	2 32 541 803	1	0.517
1 1/4	32	16	1000	163 546 345	2 32 541 803	1	0.652
1 1/2	40	16	1600	163 546 346	2 32 541 803	1	1.166
2	50	16	3100	163 546 347	2 32 541 803	1	2.055
2 1/2	65	16	5000	163 546 348	2 32 541 603	1	5.400
3	80	16	7000	163 546 349	2 32 541 603	1	5.821
4	100	16	11000	163 546 350	2 32 541 603	1	12.800

Size [inch]	FPM Code	PF	SP	Weight [kg]
3/8	163 546 351	2 32 541 803	1	0.194
1/2	163 546 352	2 32 541 803	1	0.250
3/4	163 546 353	2 32 541 803	1	0.267
1	163 546 354	2 32 541 803	1	0.520
1 1/4	163 546 355	2 32 541 803	1	0.810
1 1/2	163 546 356	2 32 541 803	1	1.180
2	163 546 357	2 32 541 803	1	2.078
2 1/2	163 546 358	2 32 541 603	1	5.400
3	163 546 359	2 32 541 603	1	6.689
4	163 546 360	2 32 541 603	1	12.800

Size [inch]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]
3/8	50	57	27	105	77	56	25	32	45	M6	67
1/2	50	57	27	105	77	56	25	32	45	M6	61
3/4	58	67	30	121	97	65	25	39	58	M6	70
1	68	73	36	133	97	71	25	39	58	M6	76
1 1/4	84	90	44	154	128	85	45	54	74	M8	90
1 1/2	97	97	51	164	128	89	45	54	74	M8	94
2	124	116	64	183	152	101	45	66	87	M8	107
2 1/2	166	149	85	233	270	136	70	64	206	M8	144
3	200	161	105	254	270	141	70	64	206	M8	151
4	238	178	123	301	320	164	120	64	256	M12	174



PF 2 32 541 603

Ball valve type 546 PVC-C With mounting inserts With backing flanges PP-st Inch ANSI

Model:

- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Overall length according to EN 558
- Connecting dimension ANSI/ASME B 16.5 / ASTM D 4024

Option:

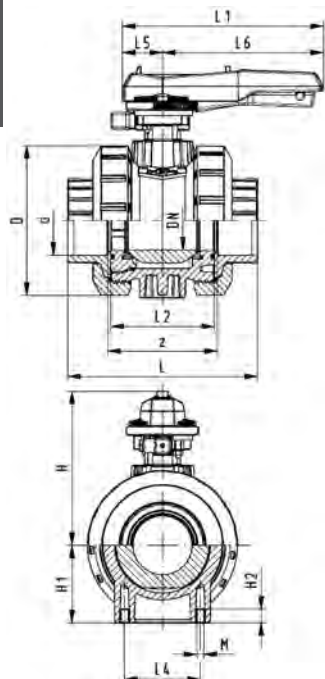
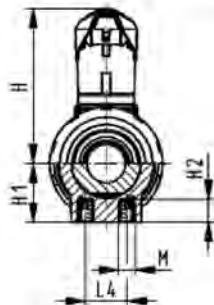
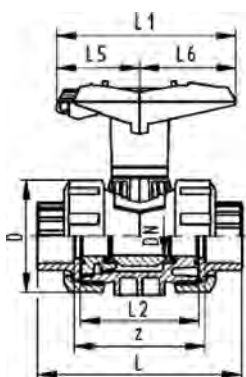
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
2 1/2	65	16	5000	163 546 168	1	6.000	163 546 178	1	6.000	
3	80	16	7000	163 546 169	1	9.100	163 546 179	1	9.100	
4	100	16	11000	163 546 170	1	14.200	163 546 180	1	14.200	

Size [inch]	D [mm]	D1 [mm]	D3 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	
2 1/2	166	140	19	149	85	284	270	136	290	70	64	206	8	
3	200	152	19	161	105	300	270	141	310	70	64	206	8	
4	238	191	19	178	123	340	320	164	350	120	64	256	12	



DN10/15 - 50



Ball valve type 546 PVC-C With lockable handle With solvent cement sockets Inch ASTM Including 2 threaded union ends NPT

Model:

- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Threaded valve ends are only enclosed for DN10/15-50
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Lockable hand lever with ratchet settings

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

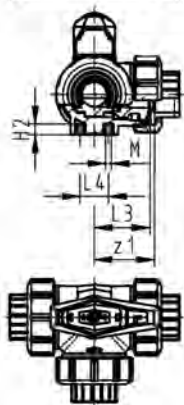
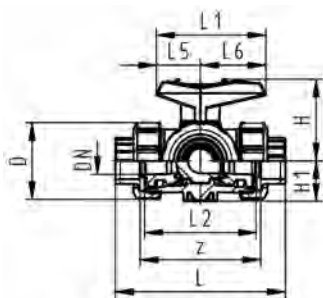
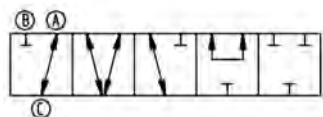
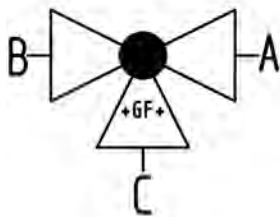
Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
3/8	10	16	71	163 546 361	2 32 541 803	1	0.205
1/2	15	16	185	163 546 362	2 32 541 803	1	0.215
3/4	20	16	350	163 546 363	2 32 541 803	1	0.325
1	25	16	700	163 546 364	2 32 541 803	1	0.485
1 1/4	32	16	1000	163 546 365	2 32 541 803	1	0.840
1 1/2	40	16	1600	163 546 366	2 32 541 803	1	0.930
2	50	16	3100	163 546 367	2 32 541 803	1	1.987
2 1/2	65	16	5000	163 546 368	2 32 541 603	1	5.800
3	80	16	7000	163 546 369	2 32 541 603	1	8.500
4	100	16	11000	163 546 370	2 32 541 603	1	13.100

Size [inch]	FPM Code	PF	SP	Weight [kg]
3/8	163 546 371	2 32 541 803	1	0.205
1/2	163 546 372	2 32 541 803	1	0.215
3/4	163 546 373	2 32 541 803	1	0.325
1	163 546 374	2 32 541 803	1	0.485
1 1/4	163 546 375	2 32 541 803	1	0.840
1 1/2	163 546 376	2 32 541 803	1	1.135
2	163 546 377	2 32 541 803	1	2.126
2 1/2	163 546 378	2 32 541 603	1	5.800
3	163 546 379	2 32 541 603	1	8.500
4	163 546 380	2 32 541 603	1	13.100

Size [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]
3/8	50	79	27	12	105	87	56	25	42	45	M6	67
1/2	50	79	27	12	105	87	56	25	42	45	M6	61
3/4	58	88	30	12	121	108	65	25	50	58	M6	70
1	68	94	36	12	133	108	71	25	50	58	M6	76
1 1/4	84	113	44	15	154	140	85	45	66	75	M8	90
1 1/2	97	119	51	15	164	140	89	45	66	75	M8	94

table continued next page

Size [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	
2	124	141	64	15	183	165	101	45	78	87	M8	107	
2 ½	166	224	85	15	233	270	136	70	64	206	M8	144	
3	200	235	105	15	254	270	141	70	64	206	M8	151	
4	238	245	123	22	301	320	164	120	64	256	M12	174	



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

Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme

Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
3/8	10	10	50	163 543 081	1	0.265	163 543 091	1	0.265
1/2	15	10	75	163 543 082	1	0.272	163 543 092	1	0.272
3/4	20	10	150	163 543 083	1	0.391	163 543 093	1	0.391
1	25	10	280	163 543 084	1	0.598	163 543 094	1	0.598
1 1/4	32	10	480	163 543 085	1	1.018	163 543 095	1	1.018
1 1/2	40	10	620	163 543 086	1	1.480	163 543 096	1	1.496
2	50	10	1230	163 543 087	1	2.938	163 543 097	1	2.938

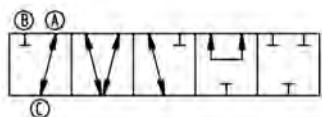
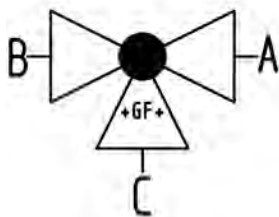
Size [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	z1 [mm]
3/8	50	57	28	8	123	77	73	36	25	32	45	6	85	42
1/2	50	57	28	8	122	77	73	36	25	32	45	6	77	38
3/4	58	67	32	8	141	97	86	43	25	39	58	6	92	46
1	68	73	36	8	161	97	99	50	25	39	58	6	105	53
1 1/4	84	90	45	9	187	128	120	60	45	54	74	8	126	63
1 1/2	97	97	51	9	213	128	137	69	45	54	74	8	143	72
2	124	116	65	9	261	152	179	89	45	66	87	8	185	92



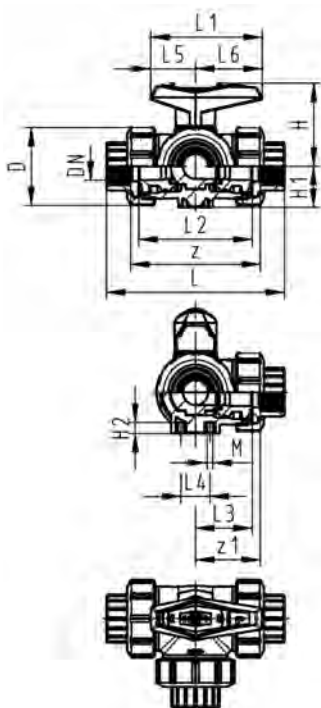
3-Way ball valve type 543 PVC-C Horizontal/L-port With threaded sockets NPT

Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme



NPT [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
3/8	10	10	50	163 543 101	1	0.265	163 543 111	1	0.265
1/2	15	10	75	163 543 102	1	0.272	163 543 112	1	0.272
3/4	20	10	150	163 543 103	1	0.391	163 543 113	1	0.391
1	25	10	280	163 543 104	1	0.598	163 543 114	1	0.598
1 1/4	32	10	480	163 543 105	1	1.018	163 543 115	1	1.018
1 1/2	40	10	620	163 543 106	1	1.509	163 543 116	1	1.509
2	50	10	1230	163 543 107	1	2.938	163 543 117	1	2.938



NPT [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	z1 [mm]
3/8	50	57	28	8	115	77	73	36	25	32	45	6	87	43
1/2	50	57	28	8	114	77	73	36	25	32	45	6	81	40
3/4	58	67	32	8	131	97	86	43	25	39	58	6	96	48
1	68	73	36	8	155	97	99	50	25	39	58	6	111	56
1 1/4	84	90	45	9	181	128	120	60	45	54	74	8	134	67
1 1/2	97	97	51	9	205	128	137	69	45	54	74	8	159	80
2	124	116	65	9	261	152	179	89	45	66	87	8	213	106

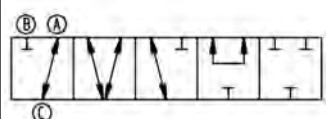
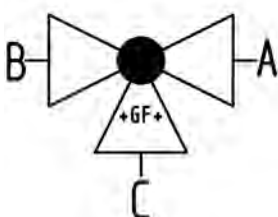
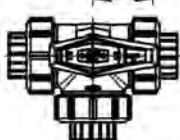
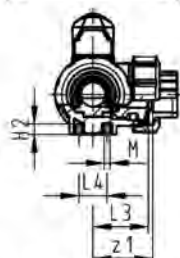
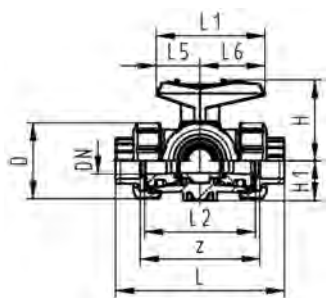
PF 2 32 002 803



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

Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme



Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
3/8	10	10	140	163 543 281	1	0.264	163 543 291	1	0.264
1/2	15	10	200	163 543 282	1	0.271	163 543 292	1	0.271
3/4	20	10	470	163 543 283	1	0.389	163 543 293	1	0.389
1	25	10	793	163 543 284	1	0.590	163 543 294	1	0.590
1 1/4	32	10	1290	163 543 285	1	1.007	163 543 295	1	1.007
1 1/2	40	10	1910	163 543 286	1	1.458	163 543 296	1	1.487
2	50	10	3100	163 543 287	1	2.889	163 543 297	1	2.889

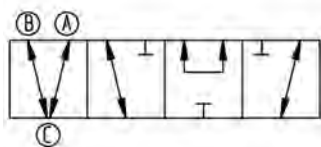
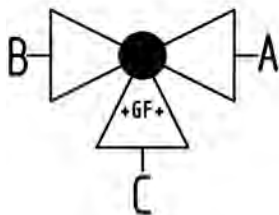
Size [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	z1 [mm]
3/8	50	57	28	8	123	77	73	36	25	32	45	6	85	42
1/2	50	57	28	8	122	77	73	36	25	32	45	6	77	38
3/4	58	67	32	8	141	97	86	43	25	39	58	6	92	46
1	68	73	36	8	161	97	99	50	25	39	58	6	105	53
1 1/4	84	90	45	9	187	128	120	60	45	54	74	8	126	63
1 1/2	97	97	51	9	213	128	137	69	45	54	74	8	143	72
2	124	116	65	9	261	152	179	89	45	66	87	8	185	92



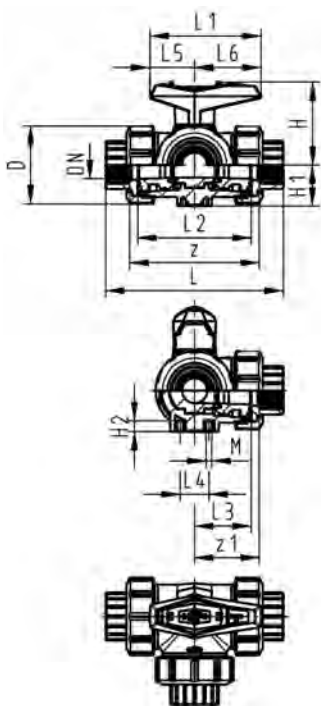
3-Way ball valve type 543 PVC-C Horizontal/T-port With threaded sockets NPT

Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme

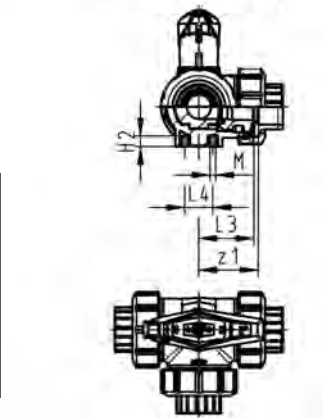
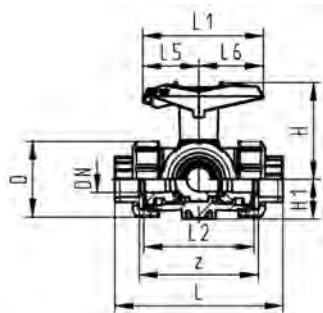
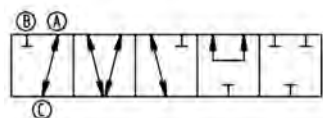
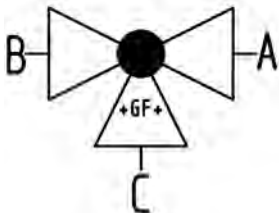


NPT [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
3/8	10	10	140	163 543 301	1	0.264	163 543 311	1	0.264	
1/2	15	10	200	163 543 302	1	0.271	163 543 312	1	0.271	
3/4	20	10	470	163 543 303	1	0.389	163 543 313	1	0.389	
1	25	10	793	163 543 304	1	0.590	163 543 314	1	0.590	
1 1/4	32	10	1290	163 543 305	1	1.007	163 543 315	1	1.007	
1 1/2	40	10	1910	163 543 306	1	1.487	163 543 316	1	1.487	
2	50	10	3100	163 543 307	1	2.889	163 543 317	1	2.889	



NPT [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	z1 [mm]	
3/8	50	57	28	8	115	77	73	36	25	32	45	6	87	43	
1/2	50	57	28	8	114	77	73	36	25	32	45	6	81	40	
3/4	58	67	32	8	131	97	86	43	25	39	58	6	96	48	
1	68	73	36	8	155	97	99	50	25	39	58	6	111	56	
1 1/4	84	90	45	9	181	128	120	60	45	54	74	8	134	67	
1 1/2	97	97	51	9	205	128	137	69	45	54	74	8	159	80	
2	124	116	65	9	261	152	179	89	45	66	87	8	213	106	

PF 2 32 002 803



3-Way ball valve type 543 PVC-C

Horizontal/L-port

With lockable handle

With solvent cement sockets ASTM

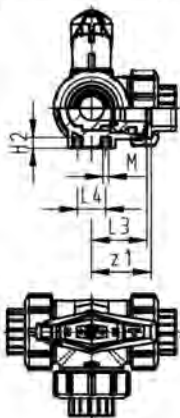
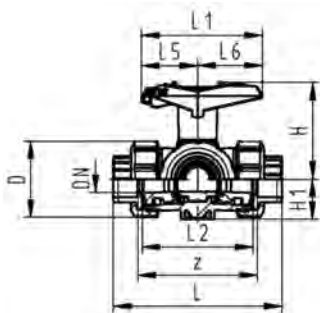
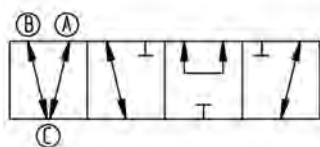
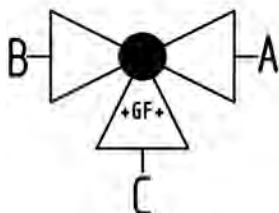
Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Multifunctional lever red with ratched setting 45°, lockable
- Delivery status A-C opened, see flow scheme

Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
3/8	10	10	50	163 543 421	1	0.281	163 543 431	1	0.281
1/2	15	10	75	163 543 422	1	0.287	163 543 432	1	0.287
3/4	20	10	150	163 543 423	1	0.410	163 543 433	1	0.410
1	25	10	280	163 543 424	1	0.616	163 543 434	1	0.616
1 1/4	32	10	480	163 543 425	1	1.043	163 543 435	1	1.043
1 1/2	40	10	620	163 543 426	1	1.534	163 543 436	1	1.534
2	50	10	1230	163 543 427	1	2.972	163 543 437	1	2.972

Size [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	z1 [mm]
3/8	50	79	28	8	123	87	73	36	25	42	45	6	85	42
1/2	50	79	28	8	122	87	73	36	25	42	45	6	77	38
3/4	58	88	32	8	141	108	86	43	25	50	58	6	92	46
1	68	94	36	8	161	108	99	50	25	50	58	6	105	53
1 1/4	84	113	45	9	187	141	120	60	45	66	75	8	126	63
1 1/2	97	119	51	9	213	141	137	69	45	66	75	8	143	72
2	124	141	65	9	261	165	179	89	45	78	87	8	185	92

PF 2 32 002 803



3-Way ball valve type 543 PVC-C

Horizontal/T-port

With lockable handle

With solvent cement sockets ASTM

Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Multifunctional lever red with ratched setting 45°, lockable
- Delivery status A-B-C opened, see flow scheme

Size [inch]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
3/8	10	10	140	163 543 441	1	0.280	163 543 451	1	0.280
1/2	15	10	200	163 543 442	1	0.286	163 543 452	1	0.286
3/4	20	10	470	163 543 443	1	0.408	163 543 453	1	0.408
1	25	10	793	163 543 444	1	0.609	163 543 454	1	0.609
1 1/4	32	10	1290	163 543 445	1	1.031	163 543 455	1	1.031
1 1/2	40	10	1910	163 543 446	1	1.512	163 543 456	1	1.512
2	50	10	3100	163 543 447	1	2.923	163 543 457	1	2.923

Size [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	z1 [mm]
3/8	50	79	28	8	123	87	73	36	25	42	45	6	85	42
1/2	50	79	28	8	122	87	73	36	25	42	45	6	77	38
3/4	58	88	32	8	141	108	86	43	25	50	58	6	92	46
1	68	94	36	8	161	108	99	50	25	50	58	6	105	53
1 1/4	84	113	45	9	187	141	120	60	45	66	75	8	126	63
1 1/2	97	119	51	9	213	141	137	69	45	66	75	8	143	72
2	124	141	65	9	261	165	179	89	45	78	87	8	185	92

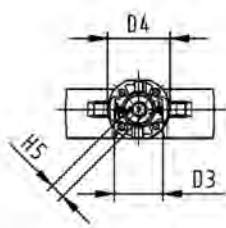
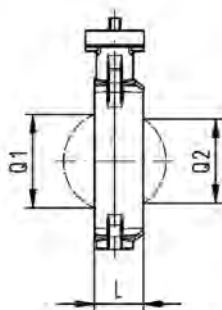
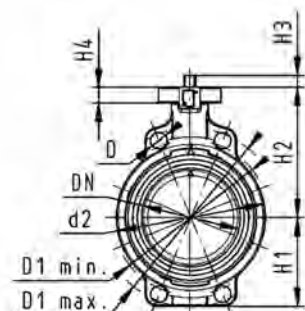
PF 2 32 002 803



Butterfly valve type 567 PVC-C Bare shaft

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
- Interface F07 according to DIN/ISO 5211



d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PF	SP	Weight [kg]	
63	2	50	10	1470	163 567 802	2 32 693 998	1	0.831	
75	2 ½	65	10	2200	163 567 803	2 32 693 998	1	0.947	
90	3	80	10	3000	163 567 804	2 32 693 998	1	1.079	
110	4	100	10	6500	163 567 805	2 32 693 998	1	1.759	
140	5	125	10	11500	163 567 806	2 32 693 998	1	2.361	
160	6	150	10	16600	163 567 807	2 32 693 998	1	3.289	
225	8	200	10	39600	163 567 808	2 32 693 998	1	5.269	

d [mm]	FPM Code	PF	SP	Weight [kg]	PTFE Code	PF	Weight [kg]	
63	163 567 822	2 32 693 998	1	0.835	163 567 832	2 32 693 005	0.947	
75	163 567 823	2 32 693 998	1	0.952	163 567 833	2 32 693 005	0.947	
90	163 567 824	2 32 693 998	1	1.097	163 567 834	2 32 693 005	1.079	
110	163 567 825	2 32 693 998	1	1.737	163 567 835	2 32 693 005	1.759	
140	163 567 826	2 32 693 998	1	2.379	163 567 836	2 32 693 005	2.361	
160	163 567 827	2 32 693 998	1	3.364	163 567 837	2 32 693 005	3.289	
225	163 567 828	2 32 693 998	1	5.094	163 567 838	2 32 693 005	5.269	

d [mm]	d2 [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	D3 [mm]	D4 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	Q1 [mm]	
63	104	19	120	125	70	90	222	77	134	27	23	11	45	40	
75	115	19	140	145	70	90	235	83	140	27	23	11	46	54	
90	131	19	150	160	70	90	247	89	146	27	23	11	49	67	
110	161	19	175	191	70	90	287	104	167	16	23	14	56	88	
140	187	23	210	216	70	90	313	117	181	16	23	14	64	113	
160	215	24	241	241	70	90	335	130	189	19	23	17	72	139	
225	267	23	290	295	70	90	387	158	210	19	23	17	73	178	

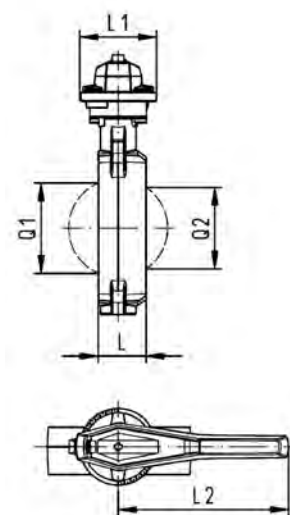
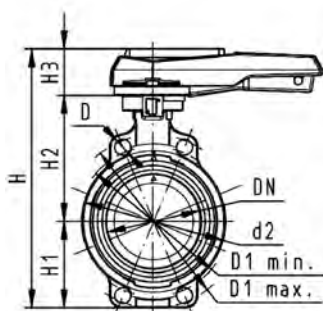
d [mm]	Q2 [mm]	
63		
75	35	
90	50	
110	74	
140	97	
160	123	
225	169	



Butterfly valve type 567 PVC-C Hand lever with ratchet settings

Model:

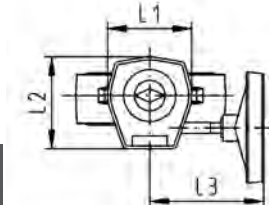
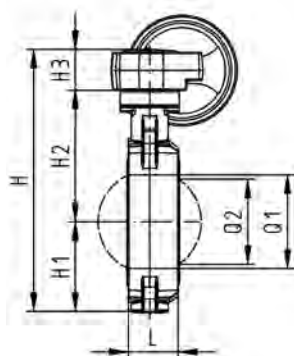
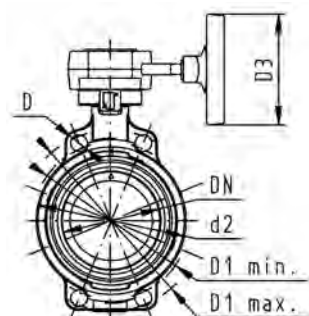
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220



d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
63	2	50	10	1470	163 567 002	2 32 693 001	1	1.257
75	2 ½	65	10	2200	163 567 003	2 32 693 001	1	1.366
90	3	80	10	3000	163 567 004	2 32 693 001	1	1.542
110	4	100	10	6500	163 567 005	2 32 693 001	1	2.231
140	5	125	10	11500	163 567 006	2 32 693 001	1	2.820
160	6	150	10	16600	163 567 007	2 32 693 001	1	6.719
225	8	200	10	39600	163 567 008	2 32 693 001	1	5.873

d [mm]	FPM Code	PF	SP	Weight [kg]	PTFE Code	PF	Weight [kg]
63	163 567 022	2 32 693 002	1	1.268	163 567 202	2 32 693 005	1.257
75	163 567 023	2 32 693 002	1	1.174	163 567 203	2 32 693 005	1.366
90	163 567 024	2 32 693 002	1	1.997	163 567 204	2 32 693 005	1.542
110	163 567 025	2 32 693 002	1	2.715	163 567 205	2 32 693 005	2.231
140	163 567 026	2 32 693 002	1	2.536	163 567 206	2 32 693 005	2.820
160	163 567 027	2 32 693 002	1	3.361	163 567 207	2 32 693 005	6.719
225	163 567 028	2 32 693 002	1	6.803	163 567 208	2 32 693 005	5.873

d [mm]	d2 [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	104	19	120	125	264	77	134	54	45	106	205	40	
75	115	19	140	145	277	83	140	54	46	106	205	54	35
90	131	19	150	160	289	89	146	54	49	106	205	67	50
110	161	19	175	191	325	104	167	55	56	106	255	88	74
140	187	23	210	216	352	117	181	55	64	106	255	113	97
160	215	24	241	241	373	130	189	55	72	106	255	139	123
225	267	23	290	295	435	158	210	67	73	140	408	178	169



Butterfly valve type 567 PVC-C Reduction gear with handwheel

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

d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PF	SP	Weight [kg]	
63	2	50	10	1470	163 567 042	2 32 693 003	1	3.078	
75	2 ½	65	10	2200	163 567 043	2 32 693 003	1	3.201	
90	3	80	10	3000	163 567 044	2 32 693 003	1	3.384	
110	4	100	10	6500	163 567 045	2 32 693 003	1	4.019	
140	5	125	10	11500	163 567 046	2 32 693 003	1	4.526	
160	6	150	10	16600	163 567 047	2 32 693 003	1	5.601	
225	8	200	10	39600	163 567 048	2 32 693 003	1	7.326	

d [mm]	FPM Code	PF	SP	Weight [kg]	PTFE Code	PF	Weight [kg]	
63	163 567 062	2 32 693 004	1	3.078	163 567 242	2 32 693 005	3.078	
75	163 567 063	2 32 693 004	1	3.212	163 567 243	2 32 693 005	3.201	
90	163 567 064	2 32 693 004	1	3.391	163 567 244	2 32 693 005	3.384	
110	163 567 065	2 32 693 004	1	4.033	163 567 245	2 32 693 005	4.019	
140	163 567 066	2 32 693 004	1	4.526	163 567 246	2 32 693 005	4.526	
160	163 567 067	2 32 693 004	1	5.624	163 567 247	2 32 693 005	5.601	
225	163 567 068	2 32 693 004	1	7.354	163 567 248	2 32 693 005	7.326	

d [mm]	d2 [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]
63	104	19	120	125	150	278	77	134	50	45	110	120	155	40
75	115	19	140	145	150	291	83	140	50	46	110	120	155	54
90	131	19	150	160	150	303	89	146	50	49	110	120	155	67
110	160	19	175	191	150	339	104	167	50	56	110	120	155	88
140	187	23	210	216	150	365	117	181	50	64	110	120	155	113
160	215	24	241	241	150	387	130	189	50	72	110	120	155	139
225	267	23	290	295	150	436	158	210	50	73	110	120	155	178

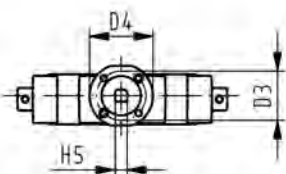
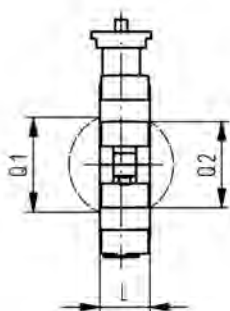
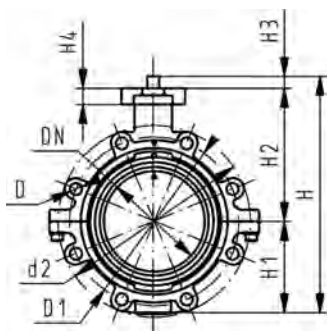
d [mm]	Q2 [mm]	
63		
75	35	
90	50	
110	74	
140	97	
160	123	
225	169	



Lugstyle butterfly valve type 568 PVC-C Bare shaft

Model:

- Outer body in GGG-40.3 epoxy-coated
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Interface F07 according to DIN/ISO 5211



d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	PF	SP	Weight [kg]	
63	2	50	10	1470	163 568 802	2 32 694 998	1	2.921	
75	2 ½	65	10	2200	163 568 803	2 32 694 998	1	3.288	
90	3	80	10	3000	163 568 804	2 32 694 998	1	4.342	
110	4	100	10	6500	163 568 805	2 32 694 998	1	5.857	
140	5	125	10	11500	163 568 806	2 32 694 998	1	7.845	
160	6	150	10	16600	163 568 807	2 32 694 998	1	9.824	
225	8	200	10	39600	163 568 808	2 32 694 998	1	15.042	

d [mm]	FPM Code	PF	SP	Weight [kg]	PTFE Code	PF	Weight [kg]	
63	163 568 822	2 32 694 998	1	2.921	163 568 832	2 32 694 005	2.921	
75	163 568 823	2 32 694 998	1	3.288	163 568 833	2 32 694 005	3.288	
90	163 568 824	2 32 694 998	1	4.342	163 568 834	2 32 694 005	4.342	
110	163 568 825	2 32 694 998	1	5.857	163 568 835	2 32 694 005	5.857	
140	163 568 826	2 32 694 998	1	7.845	163 568 836	2 32 694 005	7.845	
160	163 568 827	2 32 694 998	1	9.824	163 568 837	2 32 694 005	9.824	
225	163 568 828	2 32 694 998	1	15.042	163 568 838	2 32 694 005	15.042	

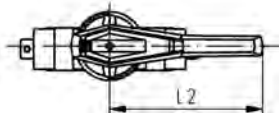
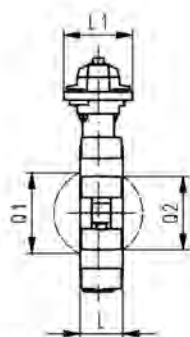
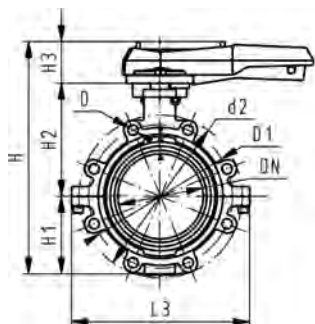
d [mm]	d2 [mm]	D	D1 [mm]	D3 [mm]	D4 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	Q1 [mm]	Q2 [mm]	
63	150	M16	125	70	90	238	77	134	27	23	45	40		
75	170	M16	145	70	90	250	83	140	27	23	46	54	35	
90	184	M16	160	70	90	262	89	146	27	23	49	67	50	
110	216	M16	180	70	90	287	104	167	16	23	56	88	74	
140	246	M16	210	70	90	314	117	181	16	23	64	113	97	
160	273	M20	240	70	90	338	130	189	19	23	72	139	123	
225	334	M20	295	70	90	387	158	210	19	23	73	178	169	



Lugstyle butterfly valve type 568 PVC-C Hand lever with ratchet settings

Model:

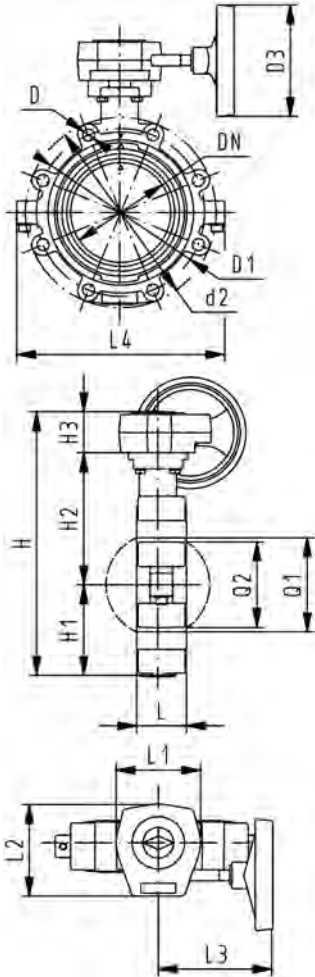
- Outer body in GGG-40.3 epoxy-coated
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10



d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
63	2	50	10	1470	163 568 002	2 32 694 001	1	3.143
75	2 ½	65	10	2200	163 568 003	2 32 694 001	1	3.510
90	3	80	10	3000	163 568 004	2 32 694 001	1	4.564
110	4	100	10	6500	163 568 005	2 32 694 001	1	6.127
140	5	125	10	11500	163 568 006	2 32 694 001	1	8.115
160	6	150	10	16600	163 568 007	2 32 694 001	1	10.094
225	8	200	10	39600	163 568 008	2 32 694 001	1	15.849

d [mm]	FPM Code	PF	SP	Weight [kg]	PTFE Code	PF	Weight [kg]
63	163 568 022	2 32 694 002	1	3.143	163 568 202	2 32 694 005	3.143
75	163 568 023	2 32 694 002	1	3.510	163 568 203	2 32 694 005	3.510
90	163 568 024	2 32 694 002	1	4.564	163 568 204	2 32 694 005	4.564
110	163 568 025	2 32 694 002	1	6.127	163 568 205	2 32 694 005	6.127
140	163 568 026	2 32 694 002	1	8.115	163 568 206	2 32 694 005	8.115
160	163 568 027	2 32 694 002	1	10.094	163 568 207	2 32 694 005	10.094
225	163 568 028	2 32 694 002	1	15.849	163 568 208	2 32 694 005	15.849

d [mm]	d2 [mm]	D [mm]	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	150	M16	125	265	77	134	54	45	106	205	150	40	35
75	170	M16	145	277	83	140	54	46	106	205	160	54	50
90	184	M16	160	289	89	146	54	49	106	205	205	67	74
110	216	M16	180	326	104	167	55	56	106	255	244	88	97
140	246	M16	210	353	117	181	55	64	106	255	272	113	123
160	273	M20	240	374	130	189	55	72	106	255	297	139	169
225	334	M20	295	435	158	210	67	73	140	408	360	178	



Lugstyle butterfly valve type 568 PVC-C Reduction gear with handwheel

Model:

- Outer body in GGG-40.3 epoxy-coated
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
63	2	50	10	1470	163 568 042	2 32 694 003	0	5.181
75	2 ½	65	10	2200	163 568 043	2 32 694 003	0	5.548
90	3	80	10	3000	163 568 044	2 32 694 003	0	6.602
110	4	100	10	6500	163 568 045	2 32 694 003	0	8.117
140	5	125	10	11500	163 568 046	2 32 694 003	0	10.105
160	6	150	10	16600	163 568 047	2 32 694 003	1	12.084
225	8	200	10	39600	163 568 048	2 32 694 003	1	17.302

d [mm]	FPM Code	PF	SP	Weight [kg]	PTFE Code	PF	Weight [kg]
63	163 568 062	2 32 694 004	0	5.181	163 568 242	2 32 694 005	5.181
75	163 568 063	2 32 694 004	0	5.548	163 568 243	2 32 694 005	5.548
90	163 568 064	2 32 694 004	0	6.602	163 568 244	2 32 694 005	6.602
110	163 568 065	2 32 694 004	0	8.117	163 568 245	2 32 694 005	8.117
140	163 568 066	2 32 694 004	0	10.105	163 568 246	2 32 694 005	10.105
160	163 568 067	2 32 694 004	1	12.084	163 568 247	2 32 694 005	12.084
225	163 568 068	2 32 694 004	1	17.302	163 568 248	2 32 694 005	17.302

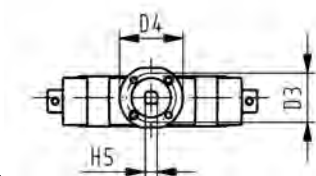
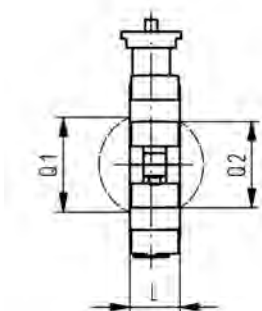
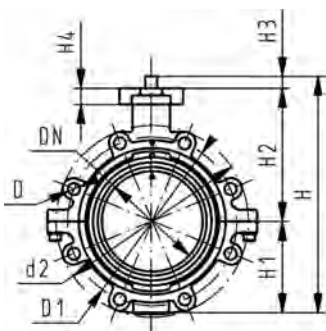
d [mm]	d2 [mm]	D [mm]	D1 [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	Q1 [mm]	Q2 [mm]
63	150	M16	125	150	279	77	134	50	45	110	120	155	150	40	
75	170	M16	145	150	291	83	140	50	46	110	120	155	160	54	35
90	184	M16	160	150	303	89	146	50	49	110	120	155	205	67	50
110	216	M16	180	150	339	104	167	50	56	110	120	155	244	88	74
140	246	M16	210	150	366	117	181	50	64	110	120	155	272	113	97
160	273	M20	240	150	387	130	189	50	72	110	120	155	297	139	123
225	334	M20	295	150	436	158	210	50	73	110	120	155	360	178	169



Lugstyle butterfly valve type 568 PVC-C Bare shaft

Model:

- Outer body in GGG-40.3 epoxy-coated
- Overall length according to EN 558, ISO 5752
- Connecting dimension ANSI/ASME B 16.5 Class 150
- Interface F07 according to DIN/ISO 5211



d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PF	SP	Weight [kg]	
63	2	50	10	1470	163 568 902	2 32 694 998	1	2.921	
75	2 ½	65	10	2200	163 568 903	2 32 694 998	0	3.288	
90	3	80	10	3000	163 568 904	2 32 694 998	1	3.713	
110	4	100	10	6500	163 568 905	2 32 694 998	1	5.857	
140	5	125	10	11500	163 568 906	2 32 694 998	0	7.845	
160	6	150	10	16600	163 568 907	2 32 694 998	1	9.824	
225	8	200	10	39600	163 568 908	2 32 694 998	1	15.042	

FPM Code	PF	SP	Weight [kg]	PTFE Code	PF	Weight [kg]	
163 568 922	2 32 694 998	1	2.921	163 568 932	2 32 694 005	2.921	
163 568 923	2 32 694 998	0	3.288	163 568 933	2 32 694 005	3.288	
163 568 924	2 32 694 998	1	3.713	163 568 934	2 32 694 005	3.713	
163 568 925	2 32 694 998	0	5.857	163 568 935	2 32 694 005	5.857	
163 568 926	2 32 694 998	0	7.845	163 568 936	2 32 694 005	7.845	
163 568 927	2 32 694 998	0	9.824	163 568 937	2 32 694 005	9.824	
163 568 928	2 32 694 998	0	15.042	163 568 938	2 32 694 005	15.042	

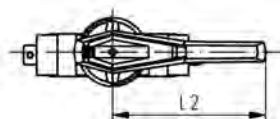
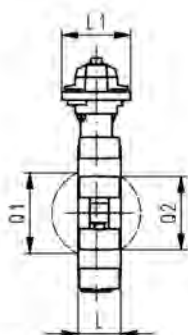
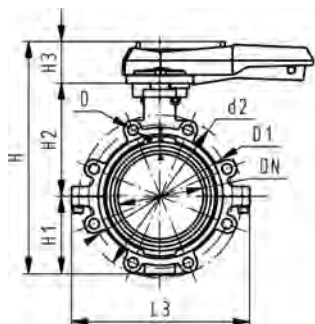
d2 [mm]	D	D1 [mm]	D3 [mm]	D4 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	Q1 [mm]	Q2 [mm]	
150	UNC 5/8	121	70	90	238	77	134	27	23	45	40		
170	UNC 5/8	138	70	90	250	83	140	27	23	46	54	35	
177	UNC 5/8	152	70	90	262	89	146	27	23	49	67	50	
216	UNC 5/8	191	70	90	287	104	167	16	23	56	88	74	
246	UNC 3/4	216	70	90	314	117	181	16	23	64	113	97	
273	UNC 3/4	241	70	90	338	130	189	19	23	72	139	123	
334	UNC 3/4	298	70	90	387	158	210	19	23	73	178	169	



Lugstyle butterfly valve type 568 PVC-C Hand lever with ratchet settings

Model:

- Outer body in GGG-40.3 epoxy-coated
- Overall length according to EN 558, ISO 5752
- Connecting dimension ANSI/ASME B 16.5 Class 150



d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	PF	SP	Weight [kg]	
63	2	50	10	1470	163 568 102	2 32 694 001	1	3.143	
75	2 ½	65	10	2200	163 568 103	2 32 694 001	1	3.510	
90	3	80	10	3000	163 568 104	2 32 694 001	1	4.202	
110	4	100	10	6500	163 568 105	2 32 694 001	1	6.127	
140	5	125	10	11500	163 568 106	2 32 694 001	1	8.115	
160	6	150	10	16600	163 568 107	2 32 694 001	1	12.305	
225	8	200	10	39600	163 568 108	2 32 694 001	1	18.194	

FPM Code	PF	SP	Weight [kg]	PTFE Code	PF	Weight [kg]	
163 568 122	2 32 694 002	1	3.143	163 568 302	2 32 694 005	3.143	
163 568 123	2 32 694 002	1	3.510	163 568 303	2 32 694 005	3.510	
163 568 124	2 32 694 002	1	3.935	163 568 304	2 32 694 005	4.202	
163 568 125	2 32 694 002	1	6.127	163 568 305	2 32 694 005	6.127	
163 568 126	2 32 694 002	1	8.115	163 568 306	2 32 694 005	8.115	
163 568 127	2 32 694 002	1	10.094	163 568 307	2 32 694 005	12.305	
163 568 128	2 32 694 002	1	15.849	163 568 308	2 32 694 005	18.194	

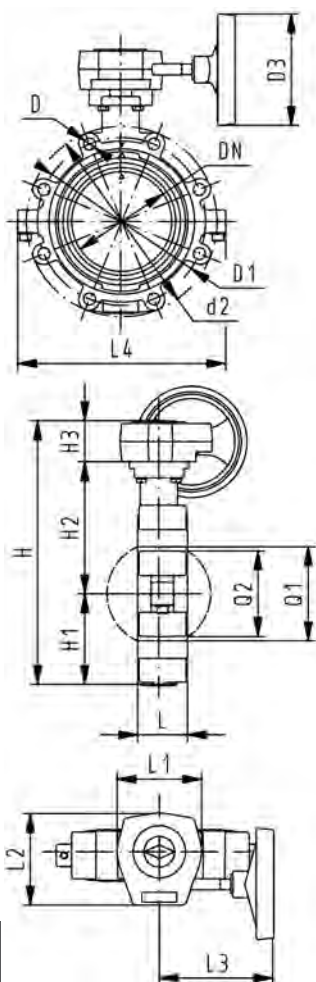
d2 [mm]	D	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]	
150	UNC 5/8	121	265	77	134	54	45	106	205	150	40		
170	UNC 5/8	138	277	83	140	54	46	106	205	160	54	35	
177	UNC 5/8	152	289	89	146	54	49	106	205	175	67	50	
216	UNC 5/8	191	326	104	167	55	56	106	255	244	88	74	
246	UNC 3/4	216	353	117	181	55	64	106	255	272	113	97	
273	UNC 3/4	241	374	130	189	55	72	106	255	297	139	123	
334	UNC 3/4	298	435	158	210	67	73	140	408	360	178	169	



Lugstyle butterfly valve type 568 PVC-C Reduction gear with handwheel

Model:

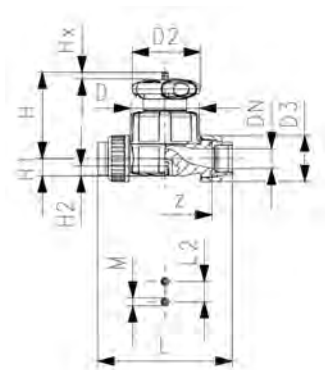
- Outer body in GGG-40.3 epoxy-coated
- Overall length according to EN 558, ISO 5752
- Connecting dimension ANSI/ASME B 16.5 Class 150



d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
63	2	50	10	1470	163 568 142	2 32 694 003	1	5.181
75	2 ½	65	10	2200	163 568 143	2 32 694 003	1	5.548
90	3	80	10	3000	163 568 144	2 32 694 003	1	5.973
110	4	100	10	6500	163 568 145	2 32 694 003	1	8.117
140	5	125	10	11500	163 568 146	2 32 694 003	1	10.105
160	6	150	10	16600	163 568 147	2 32 694 003	1	12.084
225	8	200	10	39600	163 568 148	2 32 694 003	1	17.302

FPM Code	PF	SP	Weight [kg]	PTFE Code	PF	Weight [kg]
163 568 162	2 32 694 004	0	5.181	163 568 342	2 32 694 005	5.181
163 568 163	2 32 694 004	0	5.548	163 568 343	2 32 694 005	5.548
163 568 164	2 32 694 004	0	5.973	163 568 344	2 32 694 005	5.973
163 568 165	2 32 694 004	0	8.117	163 568 345	2 32 694 005	8.117
163 568 166	2 32 694 004	0	10.105	163 568 346	2 32 694 005	10.105
163 568 167	2 32 694 004	1	12.084	163 568 347	2 32 694 005	12.084
163 568 168	2 32 694 004	1	17.302	163 568 348	2 32 694 005	17.302

d2 [mm]	D	D1 [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	Q1 [mm]	Q2 [mm]
150	UNC 5/8	121	150	279	77	134	50	45	110	120	155	150	40	
170	UNC 5/8	138	150	291	83	140	50	46	110	120	155	160	54	35
177	UNC 5/8	152	150	303	89	146	50	49	110	120	155	175	67	50
216	UNC 5/8	191	150	339	104	167	50	56	110	120	155	244	88	74
246	UNC 3/4	216	150	366	117	181	50	64	110	120	155	272	113	97
273	UNC 3/4	241	150	387	130	189	50	72	110	120	155	297	139	123
334	UNC 3/4	298	150	436	158	210	50	73	110	120	155	360	178	169



Diaphragm valve type 514 PVC-C With solvent cement sockets ASTM

Model:

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

Option:

- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches

Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	
1/2	15	10	125	163 514 612	1	0.310	
3/4	20	10	271	163 514 613	1	0.445	
1	25	10	481	163 514 614	1	0.708	
1 1/4	32	10	759	163 514 615	1	0.998	
1 1/2	40	10	1263	163 514 616	1	1.692	
2	50	10	1728	163 514 617	1	2.583	

Size [inch]	FPM Code	PTFE/EPDM Code	SP	Weight [kg]	
1/2	163 514 662	163 514 632	1	0.310	
3/4	163 514 663	163 514 633	1	0.522	
1	163 514 664	163 514 634	1	0.727	
1 1/4	163 514 665	163 514 635	1	1.412	
1 1/2	163 514 666	163 514 636	1	1.726	
2	163 514 667	163 514 637	1	3.382	

Size [inch]	D [mm]	D2 [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L2 [mm]	M	z [mm]	Lift = Hx [mm]	
1/2	65	65	43	73	14	12	141	25	M6	96	7	
3/4	80	65	51	81	18	12	165	25	M6	114	10	
1	88	87	58	107	22	12	179	25	M6	122	13	
1 1/4	101	87	72	115	26	15	204	45	M8	140	15	
1 1/2	117	135	83	148	32	15	230	45	M8	160	19	
2	144	135	100	166	39	15	268	45	M8	190	25	

PF 2 32 779 025



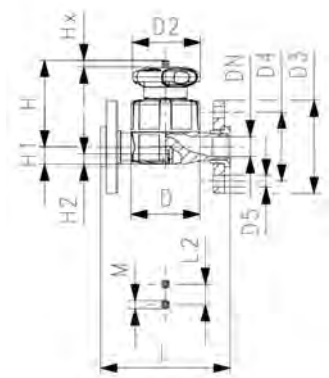
Diaphragm valve type 517 PVC-C With backing flanges PP-V Inch ANSI

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches



Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	
½	15	10	125	163 517 712	1	0.528	
¾	20	10	271	163 517 713	1	0.695	
1	25	10	481	163 517 714	1	1.388	
1 ¼	32	10	759	163 517 715	1	1.797	
1 ½	40	10	1263	163 517 716	1	2.854	
2	50	10	1728	163 517 717	1	4.022	

Size [inch]	FPM Code	PTFE/EPDM Code	SP	Weight [kg]	
½	163 517 762	163 517 732	1	0.456	
¾	163 517 763	163 517 733	1	0.695	
1	163 517 764	163 517 734	1	0.951	
1 ¼	163 517 765	163 517 735	1	1.818	
1 ½	163 517 766	163 517 736	1	2.883	
2	163 517 767	163 517 737	1	4.050	

Size [inch]	D [mm]	D2 [mm]	D3 [mm]	D4 [mm]	D5 [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L2 [mm]	M	Lift = Hx [mm]	
½	65	65	95	60	16	73	14	12	130	25	M6	7	
¾	80	65	105	70	16	81	18	12	150	25	M6	10	
1	88	87	115	79	16	107	22	12	160	25	M6	13	
1 ¼	101	87	140	89	16	115	26	15	180	45	M8	15	
1 ½	117	135	150	98	16	148	32	15	200	45	M8	19	
2	144	135	165	121	19	166	39	15	230	45	M8	25	

PF 2 32 779 035



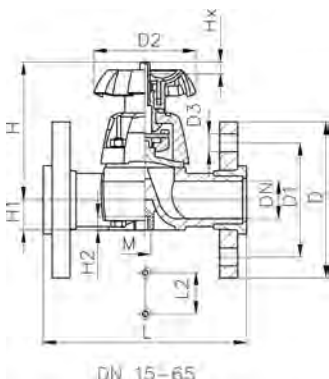
Diaphragm valve type 317 PVC-C With backing flange PP-V Inch ANSI

Model:

- Flat sealing faces
- DN 15-65 with backing flange
- Overall length according to EN 558
- Connecting dimension ANSI/ASME B 16.5 / ASTM D 4024

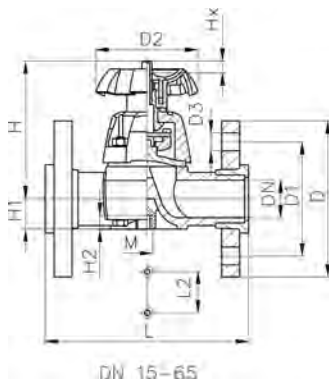
Option:

- Handwheel with built-in locking mechanism (standard version is nonlockable)



	d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	PF	Weight [kg]	
*	90	2 ½	65	10	992	163 317 623	2 32 169 020	5.335	
		3	80	10	1700	163 317 024	2 32 169 002	9.722	
		4	100	10	2700	163 317 325	2 32 169 020	13.600	

table continued next page



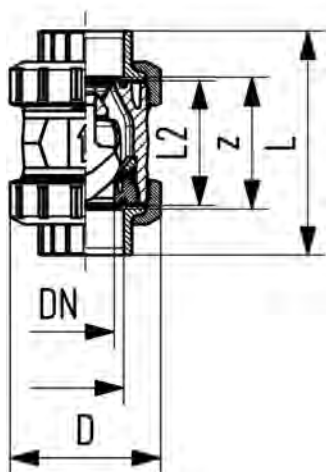
	FPM Code		PF		PTFEwith EPDM supp. diaphragm Code			PF		Weight [kg]				
*	163 317 668		2 32 169 020		163 317 638			2 32 169 020		4.425				
	163 317 069		2 32 169 008											
	163 317 370		2 32 169 020		163 317 340			2 32 169 020		13.815				
	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	M	Lift = Hx [mm]	AL	
*	185		152		201	46		290		70	M8			
	200	160	270	18	265	57	23	310	35	120	M12	40	8	
	225		270		304	69		350		120	M12		8	



Check valve type 561 PVC-C With solvent cement sockets Inch ASTM Inclusive 2 threaded valve ends NPT

Model:

- Sealing at a minimum water column of 2m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



NPT [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
3/8	10	16	190	163 561 101	1	0.120	163 561 111	1	0.120	
1/2	15	16	180	163 561 102	1	0.130	163 561 112	1	0.130	
3/4	20	16	380	163 561 103	1	0.260	163 561 113	1	0.280	
1	25	16	460	163 561 104	1	0.290	163 561 114	1	0.290	
1 1/4	32	16	850	163 561 105	1	0.490	163 561 115	1	0.490	
1 1/2	40	16	1080	163 561 106	1	0.710	163 561 116	1	0.720	
2	50	16	1670	163 561 107	1	1.460	163 561 117	1	1.470	
2 1/2	65	16	2950	163 561 108	1	3.500	163 561 118	1	3.510	
3	80	16	3600	163 561 109	1	5.500	163 561 119	1	5.520	
4	100	16	4150	163 561 110	1	8.820	163 561 120	1	8.860	

NPT [inch]	D [mm]	L [mm]	L2 [mm]	z [mm]	
3/8	50	105	56	67	
1/2	50	105	56	61	
3/4	58	121	65	70	
1	68	133	71	76	
1 1/4	84	154	85	90	
1 1/2	97	164	89	94	
2	124	183	101	107	
2 1/2	166	233	136	144	
3	200	254	141	151	
4	238	301	164	174	

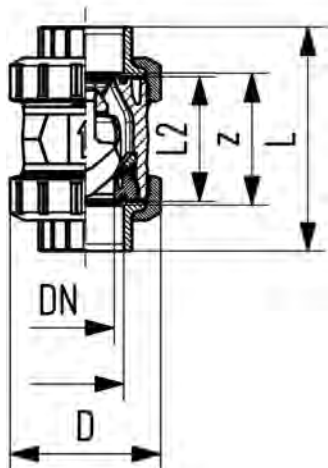
PF 2 32 987 213



Check valve type 562 PVC-C With solvent cement sockets Inch ASTM Inclusive 2 threaded valve ends NPT

Model:

- For horizontal or vertical installation
- Sealing at a minimum water column of 1m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



NPT [inch]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
3/8	10	16	190	163 562 101	1	0.120	163 562 111	1	0.120
1/2	15	16	180	163 562 102	1	0.130	163 562 112	1	0.130
3/4	20	16	380	163 562 103	1	0.260	163 562 113	1	0.280
1	25	16	460	163 562 104	1	0.290	163 562 114	1	0.290
1 1/4	32	16	850	163 562 105	1	0.490	163 562 115	1	0.490
1 1/2	40	16	1080	163 562 106	1	0.710	163 562 116	1	0.720
2	50	16	1670	163 562 107	1	1.460	163 562 117	1	1.470
2 1/2	65	16	2950	163 562 108	1	3.500	163 562 118	1	3.510
3	80	16	3600	163 562 109	1	5.500	163 562 119	1	5.520
4	100	16	4150	163 562 110	1	8.820	163 562 120	1	8.860

NPT [inch]	D [mm]	L [mm]	L2 [mm]	z [mm]
3/8	50	105	56	67
1/2	50	105	56	61
3/4	58	121	65	70
1	68	133	71	76
1 1/4	84	154	85	90
1 1/2	97	164	89	94
2	124	183	101	107
2 1/2	166	233	136	144
3	200	254	141	151
4	238	301	164	174

PF 2 32 987 113



Ventilating and bleed valve Type 591 PVC-C With solvent cement sockets Inch ASTM Inclusive 2 threaded valve ends NPT

Model:

- With protection cap up to DN50 made from PP-GF, DN65-100 made from POM
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length

NPT [inch]	DN [mm]	PN [bar]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	D [mm]	L [mm]	t [mm]
3/8	10	16	163 591 101	1	0.137	163 591 111	1	0.137	50	111	19
1/2	15	16	163 591 102	1	0.147	163 591 112	1	0.147	50	119	23
3/4	20	16	163 591 103	1	0.283	163 591 113	1	0.303	58	137	25
1	25	16	163 591 104	1	0.324	163 591 114	1	0.324	68	152	28
1 1/4	32	16	163 591 105	1	0.542	163 591 115	1	0.542	84	176	31
1 1/2	40	16	163 591 106	1	0.779	163 591 116	1	0.789	97	193	35
2	50	16	163 591 107	1	1.566	163 591 117	1	1.576	124	229	38
2 1/2	65	16	163 591 108	1	3.500	163 591 118	1	3.510	166	258	45
3	80	16	163 591 109	1	5.500	163 591 119	1	5.520	200	277	49
4	100	16	163 591 110	1	8.820	163 591 120	1	8.860	238	320	58

PF 2 32 987 312



Ventilating valve type 595 PVC-C With solvent cement sockets Inch ASTM Inclusive 2 threaded valve ends NPT

Model:

- With protection cap up to DN50 made from PP-GF, DN65-100 made from POM
- Spring loaded, spring made of NIMONIC 90, HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length

NPT [inch]	DN [mm]	PN [bar]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	D [mm]	L [mm]	t [mm]
3/8	10	16	163 595 101	1	0.137	163 595 111	1	0.137	50	111	19
1/2	15	16	163 595 102	1	0.147	163 595 112	1	0.147	50	119	23
3/4	20	16	163 595 103	1	0.283	163 595 113	1	0.303	58	137	25
1	25	16	163 595 104	1	0.324	163 595 114	1	0.324	68	152	28
1 1/4	32	16	163 595 105	1	0.542	163 595 115	1	0.542	84	176	31
1 1/2	40	16	163 595 106	1	0.779	163 595 116	1	0.789	97	193	35
2	50	16	163 595 107	1	1.566	163 595 117	1	1.576	124	229	38
2 1/2	65	16	163 595 108	1	3.500	163 595 118	1	3.510	166	258	45
3	80	16	163 595 109	1	5.500	163 595 119	1	5.520	200	277	49
4	100	16	163 595 110	1	8.820	163 595 120	1	8.860	238	320	58

PF 2 32 987 412



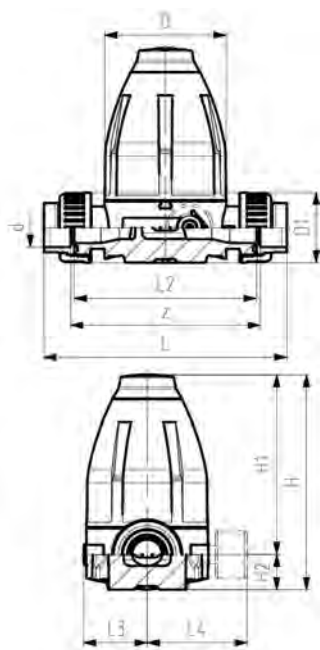
Pressure retaining valve type 586 PVC-C Unions with solvent cement sockets ASTM Without manometer

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



DN [mm]	PN [bar]	O-rings EPDM Code	Weight [kg]	SP	GP	O-rings FPM Code
15	10	163 586 202	0.720	1	0	163 586 212
20	10	163 586 203	1.560	1	0	163 586 213
25	10	163 586 204	1.600	1	0	163 586 214
32	10	163 586 205	4.360	1	0	163 586 215
40	10	163 586 206	4.430	1	0	163 586 216
50	10	163 586 207	4.690	1	0	163 586 217

D [mm]	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L2 [mm]	L3 [mm]	L5 [mm]	M	z [mm]	Inch [inch]
79	43	132	111	21	12	171	120	42	40	M6	126	1/2
100	51	177	148	29	14	207	150	53	46	M6	156	3/4
100	58	177	148	29	14	214	150	53	46	M6	156	1
147	72	251	207	44	21	275	205	76	65	M8	211	1 1/4
147	83	251	207	44	21	281	205	76	65	M8	211	1 1/2
147	101	251	207	44	21	288	205	76	65	M8	211	2

PF 3 39 A71 002



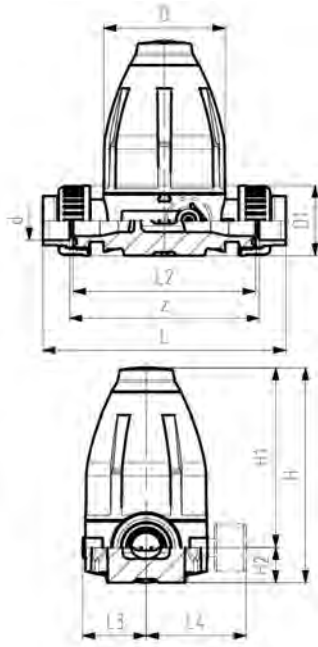
Pressure reducing valve type 582 PVC-C Unions with solvent cement sockets ASTM Without manometer

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



DN [mm]	PN [bar]	O-rings EPDM Code	Weight [kg]	SP	GP	O-rings FPM Code							
15	10	163 582 202	0.730	1	0	163 582 212							
20	10	163 582 203	1.540	1	0	163 582 213							
25	10	163 582 204	1.580	1	0	163 582 214							
32	10	163 582 205	4.220	1	0	163 582 215							
40	10	163 582 206	4.410	1	0	163 582 216							
50	10	163 582 207	4.660	1	0	163 582 217							
D [mm]	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L2 [mm]	L3 [mm]	L5 [mm]	M	z [mm]	Inch [inch]	
79	43	132	111	21	12	171	120	42	40	M6	126	1/2	
100	51	177	148	29	14	207	150	53	46	M6	156	3/4	
100	58	177	148	29	14	214	150	53	46	M6	156	1	
147	72	251	207	44	21	275	205	76	65	M8	211	1 1/4	
147	83	251	207	44	21	281	205	76	65	M8	211	1 1/2	
147	101	251	207	44	21	288	205	76	65	M8	211	2	

PF 3 39 A71 001

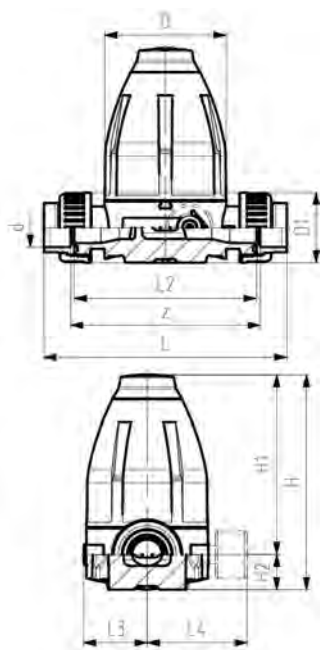


Pressure reducing valve type 582 PVC-C Unions with solvent cement sockets ASTM With manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)
- Attention: Manometer with brass connection in direct contact with medium. Check for chemical resistance, otherwise chose the optional manometer adapter for media separation.

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



DN [mm]	PN [bar]	O-rings EPDM Code	Weight [kg]	SP	GP	O-rings FPM Code								
15	10	163 582 222	0.760	1	0	163 582 232								
20	10	163 582 223	1.570	1	0	163 582 233								
25	10	163 582 224	1.610	1	0	163 582 234								
32	10	163 582 225	4.250	1	0	163 582 235								
40	10	163 582 226	4.440	1	0	163 582 236								
50	10	163 582 227	4.690	1	0	163 582 237								

D [mm]	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	M	z [mm]	Inch [inch]		
79	43	132	111	21	12	171	120	42	77	40	M6	126	1/2		
100	51	177	148	29	14	207	150	53	88	46	M6	156	3/4		
100	58	177	148	29	14	214	150	53	88	46	M6	156	1		
147	72	251	207	44	21	275	205	76	111	65	M8	211	1 1/4		
147	83	251	207	44	21	281	205	76	111	65	M8	211	1 1/2		
147	101	251	207	44	21	288	205	76	111	65	M8	211	2		

PF 3 39 A71 001

PVC-C metric

Hand-operated and control valves

Ball valve type 546 PVC-C With solvent cement spigots metric

Model:

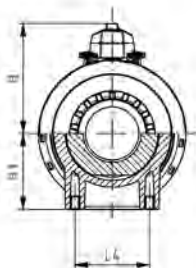
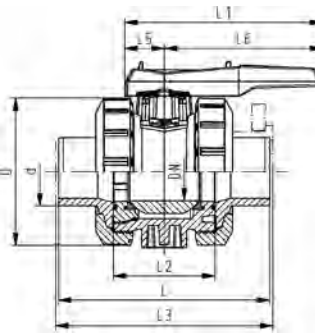
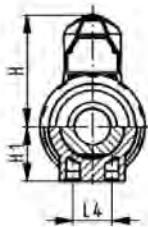
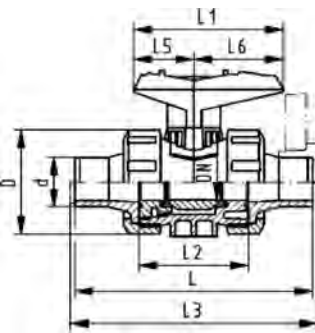
- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



DN10/15 - 50



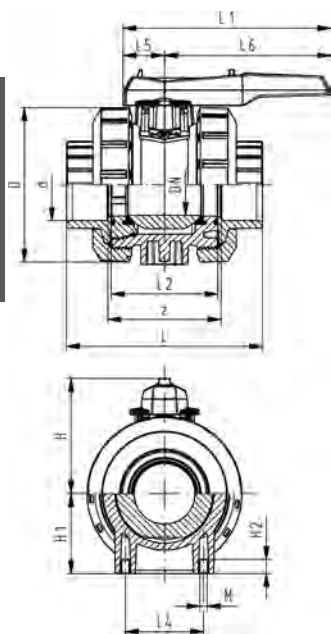
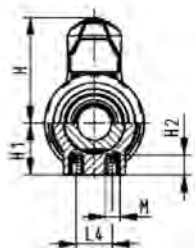
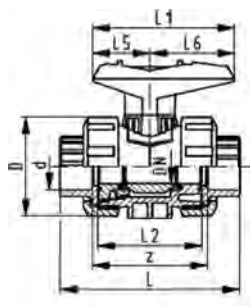
d [mm]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
16	10	16	71	163 546 041	2 32 541 801	1	0.160
20	15	16	185	163 546 042	2 32 541 801	1	0.160
25	20	16	350	163 546 043	2 32 541 801	1	0.245
32	25	16	700	163 546 044	2 32 541 801	1	0.365
40	32	16	1000	163 546 045	2 32 541 801	1	0.660
50	40	16	1600	163 546 046	2 32 541 801	1	0.890
63	50	16	3100	163 546 047	2 32 541 802	1	1.650
75	65	16	5000	163 546 048	2 32 541 601	1	5.500
90	80	16	7000	163 546 049	2 32 541 601	1	6.209
110	100	16	11000	163 546 050	2 32 541 601	1	9.581

d [mm]	FPM Code	PF	SP	Weight [kg]
16	163 546 051	2 32 541 801	1	0.160
20	163 546 052	2 32 541 801	1	0.160
25	163 546 053	2 32 541 801	1	0.245
32	163 546 054	2 32 541 801	1	0.365
40	163 546 055	2 32 541 801	1	0.660
50	163 546 056	2 32 541 801	1	0.890
63	163 546 057	2 32 541 801	1	1.650
75	163 546 058	2 32 541 601	1	5.500
90	163 546 059	2 32 541 601	1	8.200
110	163 546 060	2 32 541 601	1	12.900

d [mm]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	closest inch [inch]
16	50	57	27	114	77	56		25	32	45	3/8
20	50	57	27	124	77	56	130	25	32	45	1/2
25	58	67	30	144	97	65	150	25	39	58	3/4
32	68	73	36	154	97	71	160	25	39	58	1
40	84	90	44	174	128	85	180	45	54	74	1 1/4
50	97	97	51	194	128	89	200	45	54	74	1 1/2
63	124	116	64	224	152	101	230	45	66	87	2
75	166	149	85	284	270	136	290	70	64	206	2 1/2
90	200	161	105	300	270	141	310	70	64	206	3
110	238	178	123	340	320	164	350	120	64	256	4



DN10/15 - 50



Ball valve type 546 PVC-C With mounting inserts With solvent cement sockets metric

Model:

- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

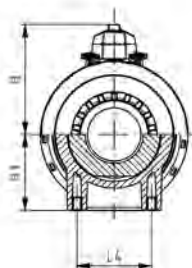
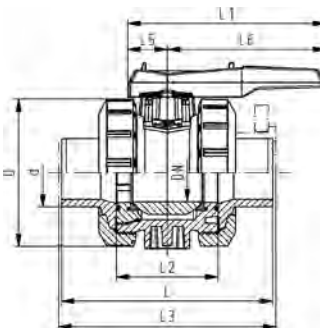
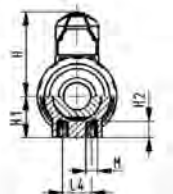
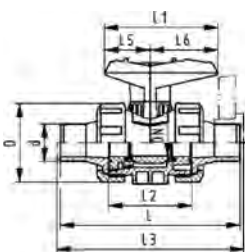
d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
16	10	16	71	163 546 061	2 32 541 801	1	0.160
20	15	16	185	163 546 062	2 32 541 801	1	0.169
25	20	16	350	163 546 063	2 32 541 801	1	0.255
32	25	16	700	163 546 064	2 32 541 801	1	0.370
40	32	16	1000	163 546 065	2 32 541 801	1	0.648
50	40	16	1600	163 546 066	2 32 541 801	1	0.894
63	50	16	3100	163 546 067	2 32 541 801	1	1.653
75	65	16	5000	163 546 068	2 32 541 601	1	3.552
90	80	16	7000	163 546 069	2 32 541 601	1	6.646
110	100	16	11000	163 546 070	2 32 541 601	1	9.697

d [mm]	FPM Code	PF	SP	Weight [kg]
16	163 546 071	2 32 541 801	1	0.160
20	163 546 072	2 32 541 801	1	0.160
25	163 546 073	2 32 541 801	1	0.245
32	163 546 074	2 32 541 801	1	0.373
40	163 546 075	2 32 541 801	1	0.658
50	163 546 076	2 32 541 801	1	0.890
63	163 546 077	2 32 541 801	1	1.662
75	163 546 078	2 32 541 601	1	4.122
90	163 546 079	2 32 541 601	1	6.698
110	163 546 080	2 32 541 601	1	12.700

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	closest inch [inch]
16	50	57	27	12	92	77	56	25	32	45	M6	64	3/8
20	50	57	27	12	95	77	56	25	32	45	M6	64	1/2
25	58	67	30	12	110	97	65	25	39	58	M6	72	3/4
32	68	73	36	12	123	97	71	25	39	58	M6	79	1
40	84	90	44	15	146	128	85	45	54	74	M8	94	1 1/4
50	97	97	51	15	157	128	89	45	54	74	M8	95	1 1/2
63	124	116	64	15	183	152	101	45	66	87	M8	107	2
75	166	149	85	15	233	270	136	70	64	206	M8	144	2 1/2
90	200	161	105	15	254	270	141	70	64	206	M8	151	3
110	238	178	123	22	301	320	164	120	64	256	M12	174	4



DN10/15 - 50



Ball valve type 546 PVC-C With mounting inserts With solvent cement spigots metric

Model:

- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

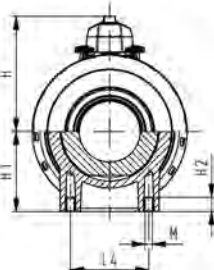
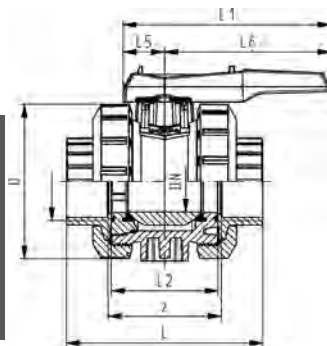
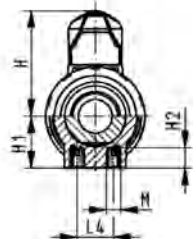
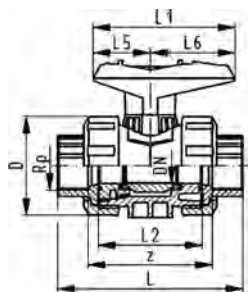
d [mm]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
16	10	16	71	163 546 381	2 32 541 801	1	0.162
20	15	16	185	163 546 382	2 32 541 801	1	0.162
25	20	16	350	163 546 383	2 32 541 801	1	0.247
32	25	16	700	163 546 384	2 32 541 801	1	0.367
40	32	16	1000	163 546 385	2 32 541 801	1	0.665
50	40	16	1600	163 546 386	2 32 541 801	1	0.895
63	50	16	3100	163 546 387	2 32 541 801	1	1.655
75	65	16	5000	163 546 388	2 32 541 601	1	5.500
90	80	16	7000	163 546 389	2 32 541 601	1	8.200
110	100	16	11000	163 546 390	2 32 541 601	1	12.900

d [mm]	FPM Code	PF	SP	Weight [kg]
16	163 546 391	2 32 541 801	1	0.162
20	163 546 392	2 32 541 801	1	0.162
25	163 546 393	2 32 541 801	1	0.247
32	163 546 394	2 32 541 801	1	0.367
40	163 546 395	2 32 541 801	1	0.665
50	163 546 396	2 32 541 801	1	0.895
63	163 546 397	2 32 541 801	1	1.655
75	163 546 398	2 32 541 601	1	5.500
90	163 546 399	2 32 541 601	1	8.200
110	163 546 400	2 32 541 601	1	12.900

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	closest inch [inch]
16	50	57	27	12	114	77	56		25	32	45	M6	3/8
20	50	57	27	12	124	77	56	130	25	32	45	M6	1/2
25	58	67	30	12	144	97	65	150	25	39	58	M6	3/4
32	68	73	36	12	154	97	71	160	25	39	58	M6	1
40	84	90	44	15	174	128	85	180	45	54	74	M8	1 1/4
50	97	97	51	15	194	128	89	200	45	54	74	M8	1 1/2
63	124	116	64	15	224	152	101	230	45	66	87	M8	2
75	166	149	85	15	284	270	136	290	70	64	206	M8	2 1/2
90	200	161	105	15	300	270	141	310	70	64	206	M8	3
110	238	178	123	22	340	320	164	350	120	64	256	M12	4



DN10/15 - 50



Ball valve type 546 PVC-C With mounting inserts With threaded sockets Rp

Model:

- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

Rp [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
3/8	10	10	71	163 546 401	2 32 541 801	1	0.162
1/2	15	10	185	163 546 402	2 32 541 801	1	0.162
3/4	20	10	350	163 546 403	2 32 541 801	1	0.247
1	25	10	700	163 546 404	2 32 541 801	1	0.367
1 1/4	32	10	1000	163 546 405	2 32 541 801	1	0.665
1 1/2	40	10	1600	163 546 406	2 32 541 801	1	0.895
2	50	10	3100	163 546 407	2 32 541 801	1	1.655
2 1/2	65	10	5000	163 546 408	2 32 541 601	1	5.400
3	80	10	7000	163 546 409	2 32 541 601	1	8.100
4	100	10	11000	163 546 410	2 32 541 601	1	12.700

Rp [inch]	FPM Code	PF	SP	Weight [kg]
3/8	163 546 411	2 32 541 801	1	0.162
1/2	163 546 412	2 32 541 801	1	0.162
3/4	163 546 413	2 32 541 801	1	0.247
1	163 546 414	2 32 541 801	1	0.367
1 1/4	163 546 415	2 32 541 801	1	0.665
1 1/2	163 546 416	2 32 541 801	1	0.895
2	163 546 417	2 32 541 801	1	1.655
2 1/2	163 546 418	2 32 541 601	1	5.400
3	163 546 419	2 32 541 601	1	8.100
4	163 546 420	2 32 541 601	1	12.700

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]
3/8	50	57	27	12	95	77	56	25	32	45	M6	69
1/2	50	57	27	12	100	77	56	25	32	45	M6	67
3/4	58	67	30	12	114	97	65	25	39	58	M6	78
1	68	73	36	12	127	97	71	25	39	58	M6	85
1 1/4	84	90	44	12	146	128	85	45	54	74	M8	100
1 1/2	97	97	51	15	152	128	89	45	54	74	M8	106
2	124	116	64	15	177	152	101	45	66	87	M8	121
2 1/2	166	149	85	15	233	270	136	70	64	206	M8	144
3	200	161	105	15	254	270	141	70	64	206	M8	151
4	238	178	123	22	301	320	164	120	64	256	M12	174



DN10/15 - 50



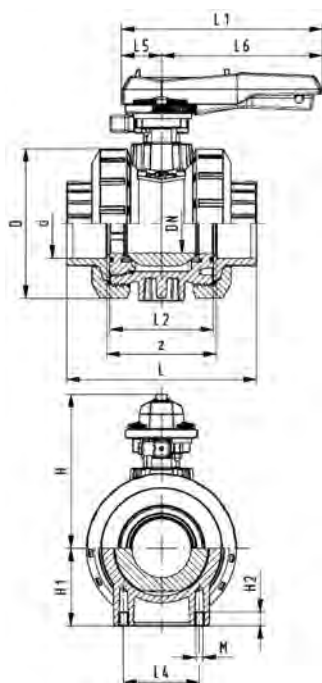
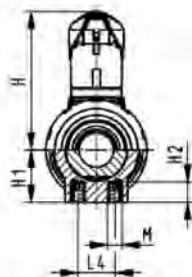
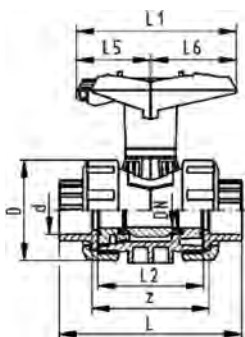
Ball valve type 546 PVC-C With lockable handle With solvent cement sockets metric

Model:

- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Lockable hand lever with ratchet settings

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



d [mm]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	PF	SP	Weight [kg]	
16	10	16	71	163 546 081	2 32 541 801	1	0.175	
20	15	16	185	163 546 082	2 32 541 801	1	0.175	
25	20	16	350	163 546 083	2 32 541 801	1	0.270	
32	25	16	700	163 546 084	2 32 541 801	1	0.390	
40	32	16	1000	163 546 085	2 32 541 801	1	0.700	
50	40	16	1600	163 546 086	2 32 541 801	1	0.930	
63	50	16	3100	163 546 087	2 32 541 801	1	1.695	
75	65	16	5000	163 546 088	2 32 541 601	1	4.900	
90	80	16	7000	163 546 089	2 32 541 601	1	6.647	
110	100	16	11000	163 546 090	2 32 541 601	1	11.600	

d [mm]	FPM Code	PF	SP	Weight [kg]	
16	163 546 091	2 32 541 801	1	0.175	
20	163 546 092	2 32 541 801	1	0.175	
25	163 546 093	2 32 541 801	1	0.270	
32	163 546 094	2 32 541 801	1	0.390	
40	163 546 095	2 32 541 801	1	0.700	
50	163 546 096	2 32 541 801	1	0.930	
63	163 546 097	2 32 541 801	1	1.695	
75	163 546 098	2 32 541 601	1	4.900	
90	163 546 099	2 32 541 601	1	7.400	
110	163 546 100	2 32 541 601	1	0.000	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	closest inch [inch]	
16	50	79	27	12	92	87	56	25	42	45	M6	64	¾	
20	50	79	27	12	95	87	56	25	42	45	M6	64	½	
25	58	88	30	12	110	108	65	25	50	58	M6	72	¾	
32	68	94	36	12	123	108	71	25	50	58	M6	79	1	
40	84	113	44	15	146	140	85	45	66	75	M8	94	1 ¼	
50	97	119	51	15	157	140	89	45	66	75	M8	95	1 ½	
63	124	141	64	15	183	165	101	45	78	87	M8	107	2	
75	166	224	85	15	233	270	136	70	64	206	M8	144	2 ½	
90	200	235	105	15	254	270	141	70	64	206	M8	151	3	
110	238	245	123	22	301	320	164	120	64	256	M12	174	4	



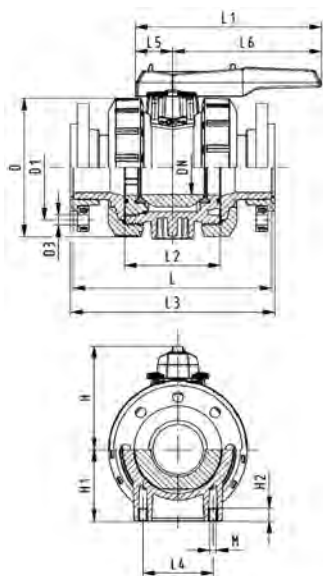
Ball valve type 546 PVC-C With mounting inserts With backing flanges PP-st metric

Model:

- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



PF 2 32 541 601

d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
75	65	16	5000	163 546 108	1	6.000	163 546 118	1	6.546
90	80	16	7000	163 546 109	1	9.501	163 546 119	1	9.320
110	100	16	11000	163 546 110	1	14.200	163 546 120	1	14.200

d [mm]	D [mm]	D1 [mm]	D3 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M [mm]
75	166	145	18	149	85	284	270	136	290	70	64	206	8
90	200	160	18	161	105	300	270	141	310	70	64	206	8
110	238	180	18	178	123	340	320	164	350	120	64	256	12



DN10/15 - 50



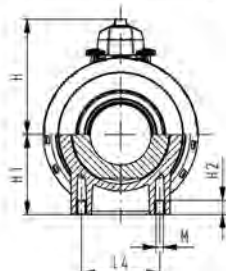
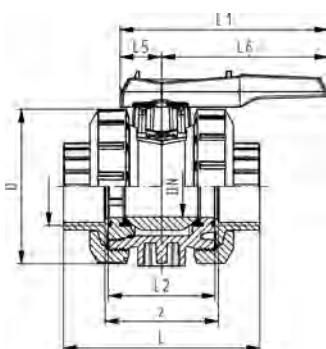
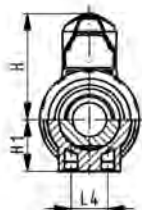
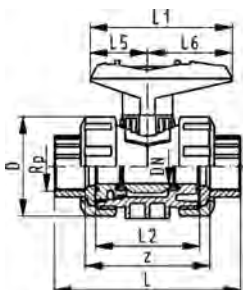
Ball valve type 546 PVC-C With threaded sockets Rp

Model:

- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



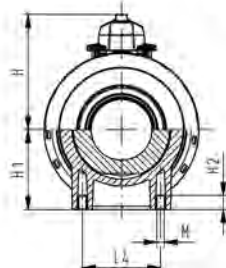
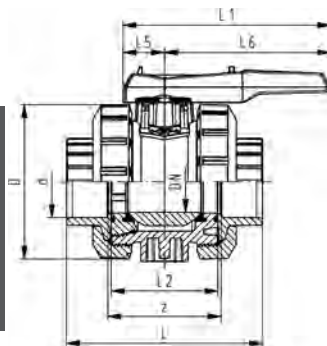
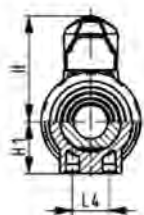
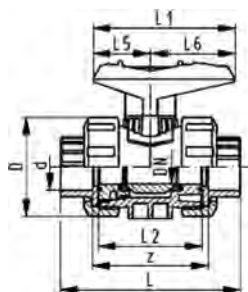
Rp [inch]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
3/8	10	10	71	163 546 021	2 32 541 801	1	0.160
1/2	15	10	185	163 546 022	2 32 541 801	1	0.160
3/4	20	10	350	163 546 023	2 32 541 801	1	0.245
1	25	10	700	163 546 024	2 32 541 801	1	0.365
1 1/4	32	10	1000	163 546 025	2 32 541 801	1	0.660
1 1/2	40	10	1600	163 546 026	2 32 541 801	1	0.890
2	50	10	3100	163 546 027	2 32 541 801	1	1.650
2 1/2	65	10	5000	163 546 028	2 32 541 601	1	5.400
3	80	10	7000	163 546 029	2 32 541 601	1	8.100
4	100	10	11000	163 546 030	2 32 541 601	1	12.700

Rp [inch]	FPM Code	PF	SP	Weight [kg]
3/8	163 546 031	2 32 541 801	1	0.160
1/2	163 546 032	2 32 541 801	1	0.160
3/4	163 546 033	2 32 541 801	1	0.245
1	163 546 034	2 32 541 801	1	0.365
1 1/4	163 546 035	2 32 541 801	1	0.660
1 1/2	163 546 036	2 32 541 801	1	0.890
2	163 546 037	2 32 541 801	1	1.650
2 1/2	163 546 038	2 32 541 601	1	5.400
3	163 546 039	2 32 541 601	1	8.100
4	163 546 040	2 32 541 601	1	12.700

Rp [inch]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	z [mm]
3/8	50	57	27	95	77	56	25	32	45	69
1/2	50	57	27	100	77	56	25	32	45	67
3/4	58	67	30	114	97	65	25	39	58	78
1	68	73	36	127	97	71	25	39	58	85
1 1/4	84	90	44	146	128	85	45	54	74	100
1 1/2	97	97	51	152	128	89	45	54	74	106
2	124	116	64	177	152	101	45	66	87	121
2 1/2	166	149	85	233	270	136	70	64	206	144
3	200	161	105	254	270	141	70	64	206	151
4	238	178	123	301	320	164	120	64	256	174



DN10/15 - 50



Ball valve type 546 PVC-C With solvent cement sockets metric

Model:

- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PF	SP	Weight [kg]
16	10	16	71	163 546 001	2 32 541 801	1	0.160
20	15	16	185	163 546 002	2 32 541 801	1	0.163
25	20	16	350	163 546 003	2 32 541 801	1	0.252
32	25	16	700	163 546 004	2 32 541 801	1	0.362
40	32	16	1000	163 546 005	2 32 541 801	1	0.638
50	40	16	1600	163 546 006	2 32 541 801	1	0.891
63	50	16	3100	163 546 007	2 32 541 801	1	1.644
75	65	16	5000	163 546 008	2 32 541 601	1	4.069
90	80	16	7000	163 546 009	2 32 541 601	1	6.023
110	100	16	11000	163 546 010	2 32 541 601	1	10.457

d [mm]	FPM Code	PF	SP	Weight [kg]
16	163 546 011	2 32 541 801	1	0.160
20	163 546 012	2 32 541 801	1	0.160
25	163 546 013	2 32 541 801	1	0.245
32	163 546 014	2 32 541 801	1	0.366
40	163 546 015	2 32 541 801	1	0.660
50	163 546 016	2 32 541 801	1	0.890
63	163 546 017	2 32 541 801	1	1.652
75	163 546 018	2 32 541 601	1	5.300
90	163 546 019	2 32 541 601	1	8.000
110	163 546 020	2 32 541 601	1	12.700

d [mm]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	z [mm]	closest inch [inch]
16	50	57	27	92	77	56	25	32	45	64	$\frac{3}{8}$
20	50	57	27	95	77	56	25	32	45	64	$\frac{1}{2}$
25	58	67	30	110	97	65	25	39	58	72	$\frac{3}{4}$
32	68	73	36	123	97	71	25	39	58	79	1
40	84	90	44	146	128	85	45	54	74	94	1 $\frac{1}{4}$
50	97	97	51	157	128	89	45	54	74	95	1 $\frac{1}{2}$
63	124	116	64	183	152	101	45	66	87	107	2
75	166	149	85	233	270	136	70	64	206	144	2 $\frac{1}{2}$
90	200	161	105	254	270	141	70	64	206	151	3
110	238	178	123	301	320	164	120	64	256	174	4



3-Way ball valve type 543 PVC-C

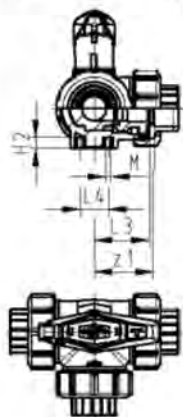
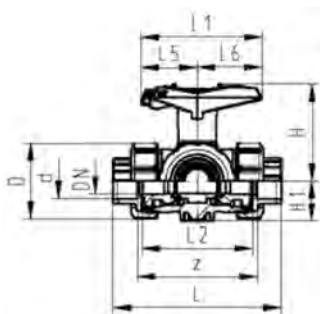
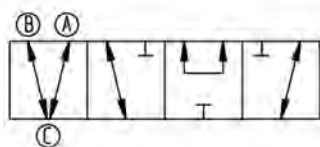
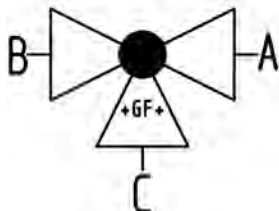
Horizontal/T-port

With lockable handle

With solvent cement sockets metric

Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Multifunctional lever red with ratched setting 45°, lockable
- Delivery status A-B-C opened, see flow scheme

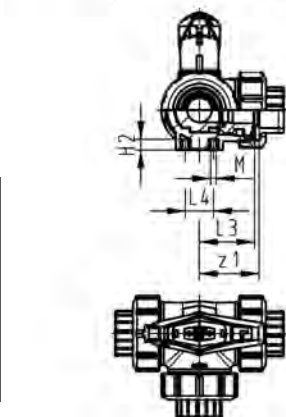
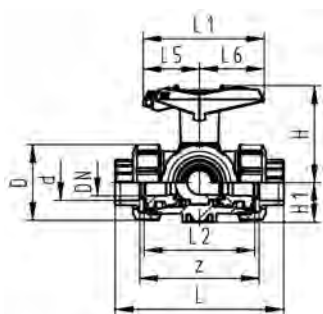
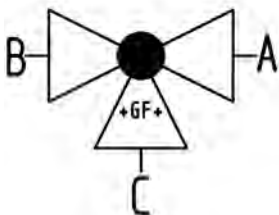


d [mm]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
16	10	10	140	163 543 401	1	0.280	163 543 411	1	0.280
20	15	10	200	163 543 402	1	0.286	163 543 412	1	0.286
25	20	10	470	163 543 403	1	0.408	163 543 413	1	0.408
32	25	10	793	163 543 404	1	0.609	163 543 414	1	0.609
40	32	10	1290	163 543 405	1	1.031	163 543 415	1	1.031
50	40	10	1910	163 543 406	1	1.512	163 543 416	1	1.512
63	50	10	3100	163 543 407	1	2.923	163 543 417	1	2.923

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	z1 [mm]
16	50	79	28	8	109	87	73	36	25	42	45	6	81	40
20	50	79	28	8	112	87	73	36	25	42	45	6	81	40
25	58	88	32	8	131	108	86	43	25	50	58	6	94	47
32	68	94	36	8	151	108	99	50	25	50	58	6	107	54
40	84	113	45	9	181	141	120	60	45	66	75	8	130	65
50	97	119	51	9	205	141	137	69	45	66	75	8	143	72
63	124	141	65	9	261	165	179	89	45	78	87	8	185	92

d [mm]	closest inch [inch]
16	3/8
20	1/2
25	3/4
32	1
40	1 1/4
50	1 1/2
63	2

PF 2 32 002 801



3-Way ball valve type 543 PVC-C

Horizontal/L-port

With lockable handle

With solvent cement sockets metric

Model:

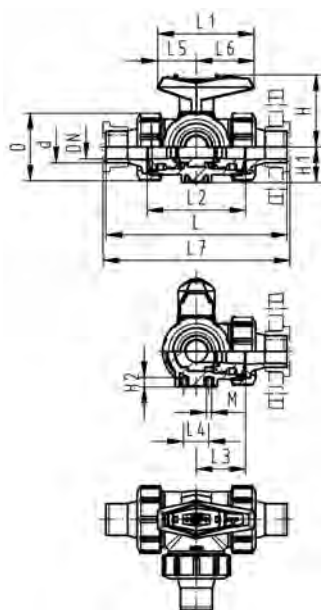
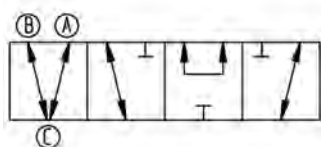
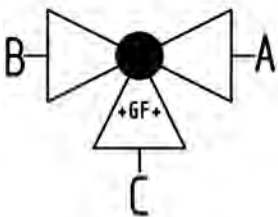
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Multifunctional lever red with ratched setting 45°, lockable
- Delivery status A-C opened, see flow scheme

d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
16	10	10	50	163 543 381	1	0.281	163 543 391	1	0.281
20	15	10	75	163 543 382	1	0.287	163 543 392	1	0.287
25	20	10	150	163 543 383	1	0.410	163 543 393	1	0.410
32	25	10	280	163 543 384	1	0.616	163 543 394	1	0.616
40	32	10	480	163 543 385	1	1.043	163 543 395	1	1.043
50	40	10	620	163 543 386	1	1.534	163 543 396	1	1.534
63	50	10	1230	163 543 387	1	2.972	163 543 397	1	2.972

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	z1 [mm]
16	50	79	28	8	109	87	73	36	25	42	45	6	81	40
20	50	79	28	8	112	87	73	36	25	42	45	6	81	40
25	58	88	32	8	131	108	86	43	25	50	58	6	94	47
32	68	94	36	8	151	108	99	50	25	50	58	6	107	54
40	84	113	45	9	181	141	120	60	45	66	75	8	130	65
50	97	119	51	9	205	141	137	69	45	66	75	8	143	72
63	124	141	65	9	261	165	179	89	45	78	87	8	185	92

d [mm]	closest inch [inch]
16	3/4
20	1/2
25	3/4
32	1
40	1 1/4
50	1 1/2
63	2

PF 2 32 002 801



3-Way ball valve type 543 PVC-C Horizontal/T-port With solvent cement spigots metric

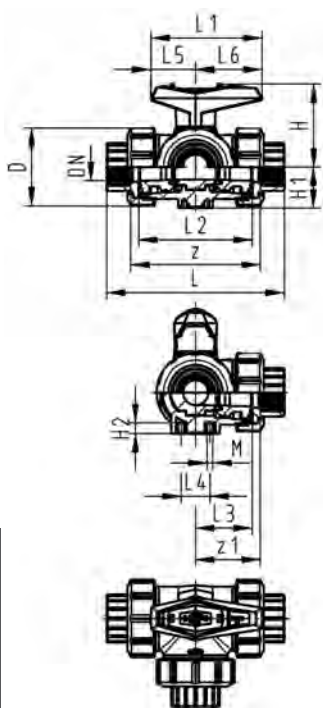
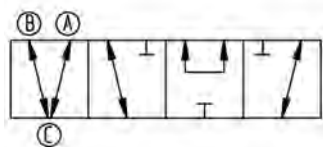
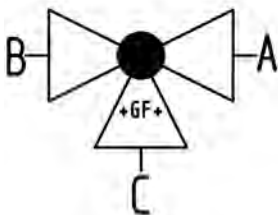
Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme

d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	140	163 543 221	1	0.264	163 543 231	1	0.264	
20	15	10	200	163 543 222	1	0.271	163 543 232	1	0.271	
25	20	10	470	163 543 223	1	0.389	163 543 233	1	0.389	
32	25	10	793	163 543 224	1	0.590	163 543 234	1	0.590	
40	32	10	1290	163 543 225	1	1.007	163 543 235	1	1.007	
50	40	10	1910	163 543 226	1	1.487	163 543 236	1	1.487	
63	50	10	3100	163 543 227	1	2.889	163 543 237	1	2.889	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	M	closest inch [inch]	
16	50	57	28	8	131	77	73	36	25	32	45	137	6	¼	
20	50	57	28	8	141	77	73	36	25	32	45	147	6	½	
25	58	67	32	8	165	97	86	43	25	39	58	171	6	¾	
32	68	73	36	8	182	97	99	50	25	39	58	188	6	1	
40	84	90	45	9	209	128	120	60	45	54	74	215	8	1 ¼	
50	97	97	51	9	242	128	137	69	45	54	74	248	8	1 ½	
63	124	116	65	9	302	152	179	89	45	66	87	308	8	2	

PF 2 32 002 801



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

Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme

Rp [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
3/8	10	10	140	163 543 241	1	0.264	163 543 251	1	0.264	
1/2	15	10	200	163 543 242	1	0.271	163 543 252	1	0.271	
3/4	20	10	470	163 543 243	1	0.389	163 543 253	1	0.389	
1	25	10	793	163 543 244	1	0.590	163 543 254	1	0.590	
1 1/4	32	10	1290	163 543 245	1	1.007	163 543 255	1	1.007	
1 1/2	40	10	1910	163 543 246	1	1.487	163 543 256	1	1.487	
2	50	10	3100	163 543 247	1	2.889	163 543 257	1	2.889	

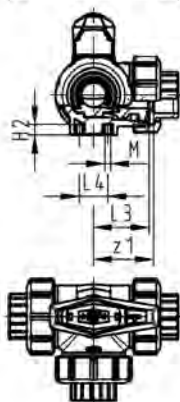
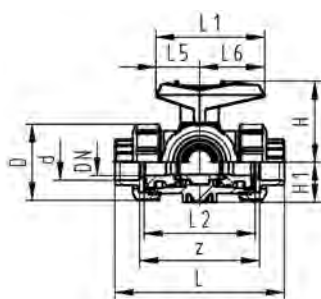
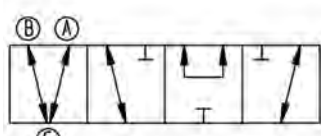
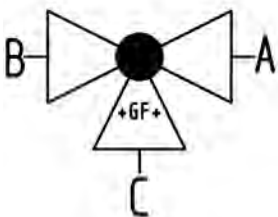
Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	z1 [mm]	
3/8	50	57	28	8	113	77	73	36	25	32	45	6	87	43	
1/2	50	57	28	8	116	77	73	36	25	32	45	6	85	42	
3/4	58	67	32	8	135	97	86	43	25	39	58	6	100	50	
1	68	73	36	8	155	97	99	50	25	39	58	6	113	57	
1 1/4	84	90	45	9	179	128	120	60	45	54	74	8	134	67	
1 1/2	97	97	51	9	201	128	137	69	45	54	74	8	155	78	
2	124	116	65	9	255	152	179	89	45	66	87	8	199	99	



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

Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme

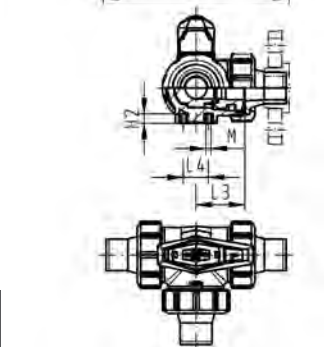
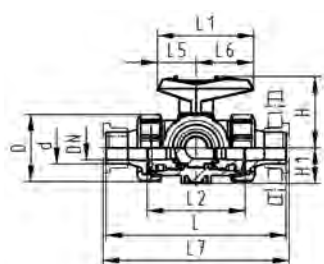
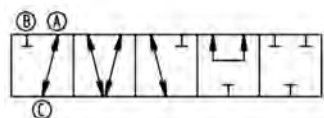
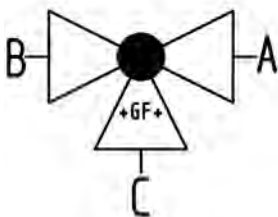


d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
16	10	10	140	163 543 201	1	0.264	163 543 211	1	0.264
20	15	10	200	163 543 202	1	0.271	163 543 212	1	0.271
25	20	10	470	163 543 203	1	0.389	163 543 213	1	0.389
32	25	10	793	163 543 204	1	0.561	163 543 214	1	0.590
40	32	10	1290	163 543 205	1	1.007	163 543 215	1	1.007
50	40	10	1910	163 543 206	1	1.487	163 543 216	1	1.487
63	50	10	3100	163 543 207	1	2.889	163 543 217	1	2.889

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	z1 [mm]
16	50	57	28	8	109	77	73	36	25	32	45	6	81	40
20	50	57	28	8	112	77	73	36	25	32	45	6	81	40
25	58	67	32	8	131	97	86	43	25	39	58	6	94	47
32	68	73	36	8	151	97	99	50	25	39	58	6	107	54
40	84	90	45	9	181	128	120	60	45	54	74	8	130	65
50	97	97	51	9	205	128	137	69	45	54	74	8	143	72
63	124	116	65	9	261	152	179	89	45	66	87	8	185	92

d [mm]	closest inch [inch]
16	$\frac{3}{8}$
20	$\frac{1}{2}$
25	$\frac{3}{4}$
32	1
40	1 $\frac{1}{4}$
50	1 $\frac{1}{2}$
63	2

PF 2 32 002 801



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

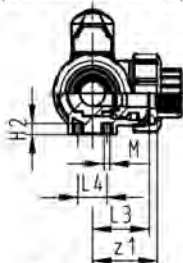
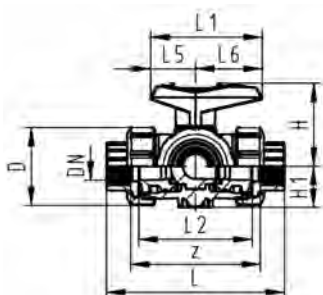
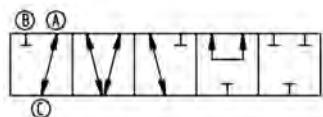
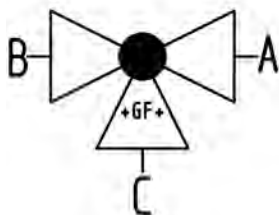
Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme

d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	50	163 543 021	1	0.272	163 543 031	1	0.272	
20	15	10	75	163 543 022	1	0.282	163 543 032	1	0.282	
25	20	10	150	163 543 023	1	0.408	163 543 033	1	0.408	
32	25	10	280	163 543 024	1	0.624	163 543 034	1	0.624	
40	32	10	480	163 543 025	1	1.041	163 543 035	1	1.041	
50	40	10	620	163 543 026	1	1.578	163 543 036	1	1.578	
63	50	10	1230	163 543 027	1	3.075	163 543 037	1	3.075	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	M	closest inch [inch]
16	50	57	28	8	131	77	73	36	25	32	45	137	6	3/8
20	50	57	28	8	141	77	73	36	25	32	45	147	6	1/2
25	58	67	32	8	165	97	86	43	25	39	58	171	6	3/4
32	68	73	36	8	182	97	99	50	25	39	58	188	6	1
40	84	90	45	9	209	128	120	60	45	54	74	215	8	1 1/4
50	97	97	51	9	242	128	137	69	45	54	74	248	8	1 1/2
63	124	116	65	9	302	152	179	89	45	66	87	308	8	2

PF 2 32 002 801



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

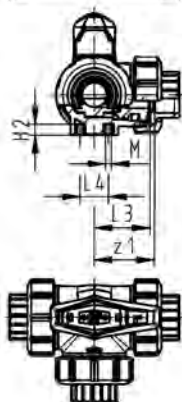
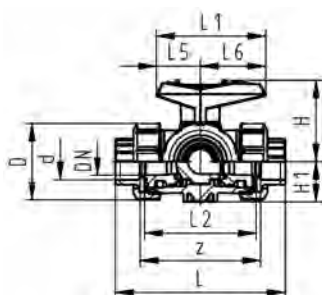
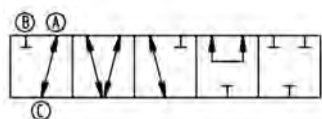
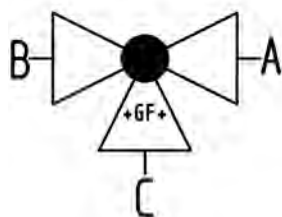
Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme

Rp [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
3/8	10	10	50	163 543 041	1	0.265	163 543 051	1	0.265
1/2	15	10	75	163 543 042	1	0.272	163 543 052	1	0.272
3/4	20	10	150	163 543 043	1	0.391	163 543 053	1	0.391
1	25	10	280	163 543 044	1	0.598	163 543 054	1	0.598
1 1/4	32	10	480	163 543 045	1	1.018	163 543 055	1	1.018
1 1/2	40	10	620	163 543 046	1	1.509	163 543 056	1	1.509
2	50	10	1230	163 543 047	1	2.938	163 543 057	1	2.938

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	z1 [mm]
3/8	50	57	28	8	113	77	73	36	25	32	45	6	87	43
1/2	50	57	28	8	116	77	73	36	25	32	45	6	85	42
3/4	58	67	32	8	135	97	86	43	25	39	58	6	100	50
1	68	73	36	8	155	97	99	50	25	39	58	6	113	57
1 1/4	84	90	45	9	179	128	120	60	45	54	74	8	134	67
1 1/2	97	97	51	9	201	128	137	69	45	54	74	8	155	78
2	124	116	65	9	255	152	179	89	45	66	87	8	199	99

PF 2 32 002 801



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

Model:

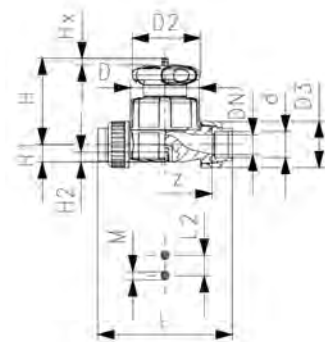
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme

d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
16	10	10	50	163 543 001	1	0.265	163 543 011	1	0.265
20	15	10	75	163 543 002	1	0.272	163 543 012	1	0.272
25	20	10	150	163 543 003	1	0.391	163 543 013	1	0.391
32	25	10	280	163 543 004	1	0.598	163 543 014	1	0.598
40	32	10	480	163 543 005	1	1.018	163 543 015	1	1.018
50	40	10	620	163 543 006	1	1.509	163 543 016	1	1.509
63	50	10	1230	163 543 007	1	2.938	163 543 017	1	2.938

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	z1 [mm]
16	50	57	28	8	109	77	73	36	25	32	45	6	81	40
20	50	57	28	8	112	77	73	36	25	32	45	6	81	40
25	58	67	32	8	131	97	86	43	25	39	58	6	94	47
32	68	73	36	8	151	97	99	50	25	39	58	6	107	54
40	84	90	45	9	181	128	120	60	45	54	74	8	130	65
50	97	97	51	9	205	128	137	69	45	54	74	8	143	72
63	124	116	65	9	261	152	179	89	45	66	87	8	185	92

d [mm]	closest inch [inch]
16	3/8
20	1/2
25	3/4
32	1
40	1 1/4
50	1 1/2
63	2

PF 2 32 002 801



Diaphragm valve type 514 PVC-C With solvent cement sockets metric

Model:

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

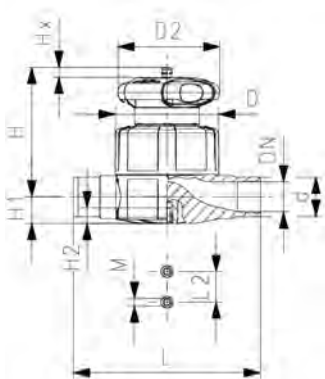
Option:

- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches

d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	PTFE/EPDM Code	SP	Weight [kg]
20	15	10	125	163 514 012	1	0.409	163 514 032	1	0.312
25	20	10	271	163 514 013	1	0.448	163 514 033	1	0.558
32	25	10	481	163 514 014	1	0.707	163 514 034	1	1.207
40	32	10	759	163 514 015	1	1.516	163 514 035	1	1.536
50	40	10	1263	163 514 016	1	1.674	163 514 036	1	1.541
63	50	10	1728	163 514 017	1	2.568	163 514 037	1	3.622

d [mm]	D [mm]	D2 [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L2 [mm]	M	z [mm]	Lift = Hx [mm]	closest inch [inch]
20	65	65	43	73	14	12	128	25	M6	96	7	1/2
25	80	65	51	81	18	12	152	25	M6	114	10	3/4
32	88	87	58	107	22	12	166	25	M6	122	13	1
40	101	87	72	115	26	15	192	45	M8	140	15	1 1/4
50	117	135	83	148	32	15	222	45	M8	160	19	1 1/2
63	144	135	100	166	39	15	266	45	M8	190	25	2

PF 2 32 779 020



Diaphragm valve type 515 PVC-C With solvent cement spigots metric

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Overall length EN 558

Option:

- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches

d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	PTFE/EPDM Code	SP	Weight [kg]
20	15	10	125	163 515 012	1	0.344	163 515 032	1	0.344
25	20	10	271	163 515 013	1	0.361	163 515 033	1	0.364
32	25	10	481	163 515 014	1	0.589	163 515 034	1	1.073
40	32	10	759	163 515 015	1	1.269	163 515 035	1	1.290
50	40	10	1263	163 515 016	1	2.314	163 515 036	1	2.343
63	50	10	1728	163 515 017	1	3.054	163 515 037	1	3.082

d [mm]	D [mm]	D2 [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L2 [mm]	M	Lift = Hx [mm]	closest inch [inch]
20	65	65	73	14	12	124	25	M6	7	1/2
25	80	65	81	18	12	144	25	M6	10	3/4
32	88	87	107	22	12	154	25	M6	13	1
40	101	87	115	26	15	174	45	M8	15	1 1/4
50	117	135	148	32	15	194	45	M8	19	1 1/2
63	144	135	166	39	15	224	45	M8	25	2

PF 2 32 779 010



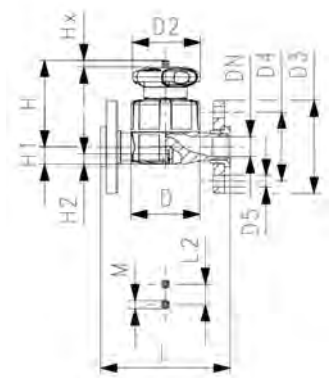
Diaphragm valve type 517 PVC-C With backing flanges PP-V metric/BS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches



d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	PTFE/EPDM Code	SP	Weight [kg]	
20	15	10	125	163 517 112	1	0.447	163 517 132	1	0.528	
25	20	10	271	163 517 113	1	0.695	163 517 133	1	0.695	
32	25	10	481	163 517 114	1	1.388	163 517 134	1	0.952	
40	32	10	759	163 517 115	1	1.797	163 517 135	1	1.818	
50	40	10	1263	163 517 116	1	2.854	163 517 136	1	2.142	
63	50	10	1728	163 517 117	1	3.318	163 517 137	1	3.115	

d [mm]	D [mm]	D2 [mm]	D3 [mm]	D4 [mm]	D5 [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L2 [mm]	M	Lift = Hx [mm]	closest inch [inch]	
20	65	65	95	65	14	73	14	12	130	25	M6	7	1/2	
25	80	65	105	75	14	81	18	12	150	25	M6	10	3/4	
32	88	87	115	85	14	107	22	12	160	25	M6	13	1	
40	101	87	140	100	18	115	26	15	180	45	M8	15	1 1/4	
50	117	135	150	110	18	148	32	15	200	45	M8	19	1 1/2	
63	144	135	165	125	18	166	39	15	230	45	M8	25	2	

PF 2 32 779 030



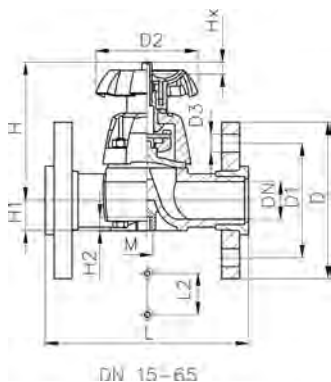
Diaphragm valve type 317 PVC-C With flanges PP-V

Model:

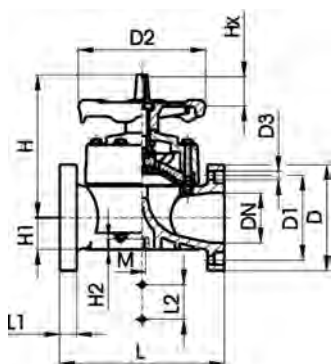
- Flat sealing faces
- DN 15-65 with backing flange
- DN 80-150 with fixed flange
- Overall length according to EN 558

Option:

- Handwheel lockable DN15-65 (basic version not lockable)



DN 15-65



DN 80-100

* DN80 and DN150 fixed flanges metric and Inch ANSI B16.5

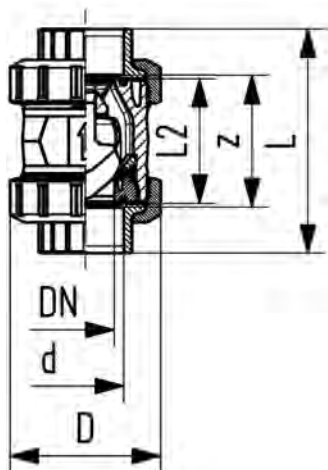
	d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PF							
*	75	2 ½	65	10	992	163 317 523	2 32 169 020							
	90	3	80	10	1700	163 317 024	2 32 169 002							
	110	4	100	10	2700	163 317 025	2 32 169 002							
	d [mm]	PTFE/EPDM Code		PF		SP	Weight [kg]							
*	75	163 317 538		2 32 169 020		1	4.425							
	90	163 317 039		2 32 169 003		1	9.822							
	110	163 317 040		2 32 169 003		1	13.799							
	d [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	M	Lift = Hx [mm]	AL
*	75	185	145	152	18	201	46	15	290		70	M8	30	4
	90	200	160	270	18	265	57	23	310	35	120	M12	40	8
	110	225	180	270	18	304	69	23	350	35	120	M12	50	8



Check valve type 561 PVC-C With solvent cement sockets metric

Model:

- Sealing at a minimum water column of 2m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
16	10	16	190	163 561 001	1	0.120	163 561 011	1	0.120
20	15	16	180	163 561 002	1	0.120	163 561 012	1	0.120
25	20	16	380	163 561 003	1	0.260	163 561 013	1	0.280
32	25	16	460	163 561 004	1	0.280	163 561 014	1	0.280
40	32	16	850	163 561 005	1	0.490	163 561 015	1	0.490
50	40	16	1080	163 561 006	1	0.710	163 561 016	1	0.710
63	50	16	1670	163 561 007	1	1.456	163 561 017	1	1.470
75	65	16	2950	163 561 008	1	3.460	163 561 018	1	3.480
90	80	16	3600	163 561 009	1	5.540	163 561 019	1	5.570
110	100	16	4150	163 561 010	1	8.930	163 561 020	1	8.970

d [mm]	D [mm]	L [mm]	L2 [mm]	z [mm]	closest inch [inch]
16	50	92	56	64	$\frac{3}{8}$
20	50	95	56	64	$\frac{1}{2}$
25	58	110	65	72	$\frac{3}{4}$
32	68	123	71	79	1
40	84	146	85	94	1 $\frac{1}{4}$
50	97	157	89	95	1 $\frac{1}{2}$
63	124	183	101	107	2
75	166	233	136	144	2 $\frac{1}{2}$
90	200	254	141	151	3
110	238	301	164	174	4

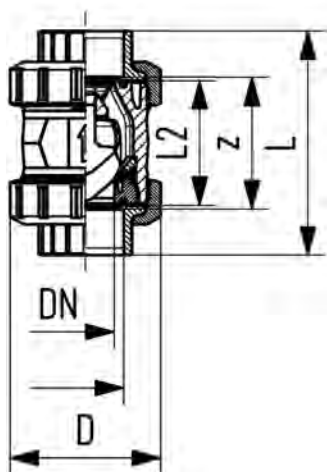
PF 2 32 987 211



Check valve type 561 PVC-C With threaded sockets Rp

Model:

- Sealing at a minimum water column of 2m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



Rp [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
3/8	10	10	190	163 561 021	1	0.120	163 561 031	1	0.120
1/2	15	10	180	163 561 022	1	0.120	163 561 032	1	0.120
3/4	20	10	380	163 561 023	1	0.260	163 561 033	1	0.280
1	25	10	460	163 561 024	1	0.290	163 561 034	1	0.290
1 1/4	32	10	850	163 561 025	1	0.490	163 561 035	1	0.500
1 1/2	40	10	1080	163 561 026	1	0.740	163 561 036	1	0.750
2	50	10	1670	163 561 027	1	1.530	163 561 037	1	1.530
2 1/2	65	10	2950	163 561 028	1	3.530	163 561 038	1	3.550
3	80	10	3600	163 561 029	1	5.670	163 561 039	1	5.700
4	100	10	4150	163 561 030	1	8.990	163 561 040	1	9.030

Rp [inch]	D [mm]	L [mm]	L2 [mm]	z [mm]
3/8	50	95	56	69
1/2	50	100	56	67
3/4	58	114	65	78
1	68	127	71	85
1 1/4	84	146	85	100
1 1/2	97	152	89	106
2	124	177	101	121
2 1/2	166	233	136	144
3	200	254	141	151
4	238	301	164	174

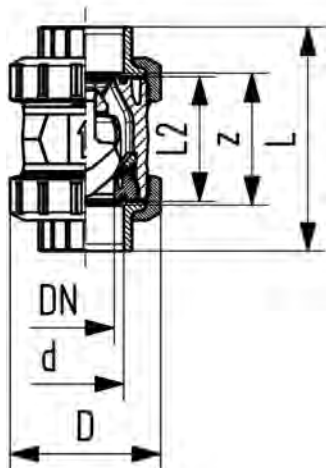
PF 2 32 987 211



Check valve type 562 PVC-C With solvent cement sockets metric

Model:

- For horizontal or vertical installation
- Sealing at a minimum water column of 1m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
16	10	16	190	163 562 001	1	0.120	163 562 011	1	0.120
20	15	16	180	163 562 002	1	0.120	163 562 012	1	0.120
25	20	16	380	163 562 003	1	0.260	163 562 013	1	0.280
32	25	16	460	163 562 004	1	0.280	163 562 014	1	0.280
40	32	16	850	163 562 005	1	0.490	163 562 015	1	0.490
50	40	16	1080	163 562 006	1	0.710	163 562 016	1	0.710
63	50	16	1670	163 562 007	1	1.460	163 562 017	1	1.470
75	65	16	2950	163 562 008	1	3.460	163 562 018	1	3.480
90	80	16	3600	163 562 009	1	5.540	163 562 019	1	5.570
110	100	16	4150	163 562 010	1	8.930	163 562 020	1	8.970

d [mm]	D [mm]	L [mm]	L2 [mm]	z [mm]	closest inch [inch]
16	50	92	56	64	3/8
20	50	95	56	64	1/2
25	58	110	65	72	3/4
32	68	123	71	79	1
40	84	146	85	94	1 1/4
50	97	157	89	95	1 1/2
63	124	183	101	107	2
75	166	233	136	144	2 1/2
90	200	254	141	151	3
110	238	301	164	174	4

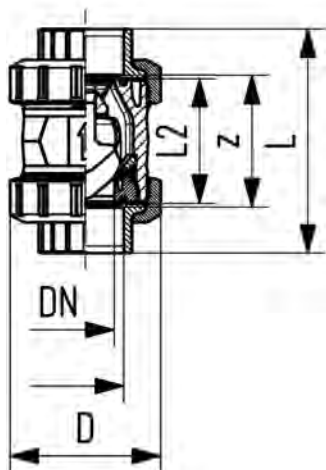
PF 2 32 987 111



Check valve type 562 PVC-C With threaded sockets Rp

Model:

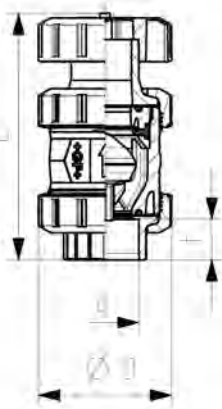
- For horizontal or vertical installation
- Sealing at a minimum water column of 1m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



Rp [inch]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
3/8	10	10	190	163 562 021	1	0.120	163 562 031	1	0.120
1/2	15	10	180	163 562 022	1	0.120	163 562 032	1	0.120
3/4	20	10	380	163 562 023	1	0.260	163 562 033	1	0.280
1	25	10	460	163 562 024	1	0.290	163 562 034	1	0.290
1 1/4	32	10	850	163 562 025	1	0.490	163 562 035	1	0.500
1 1/2	40	10	1080	163 562 026	1	0.740	163 562 036	1	0.750
2	50	10	1670	163 562 027	1	1.530	163 562 037	1	1.530
2 1/2	65	10	2950	163 562 028	1	3.530	163 562 038	1	3.550
3	80	10	3600	163 562 029	1	5.670	163 562 039	1	5.700
4	100	10	4150	163 562 030	1	8.990	163 562 040	1	9.030

Rp [inch]	D [mm]	L [mm]	L2 [mm]	z [mm]
3/8	50	95	56	69
1/2	50	100	56	67
3/4	58	114	65	78
1	68	127	71	85
1 1/4	84	146	85	100
1 1/2	97	152	89	106
2	124	177	101	121
2 1/2	166	233	136	144
3	200	254	141	151
4	238	301	164	174

PF 2 32 987 111



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

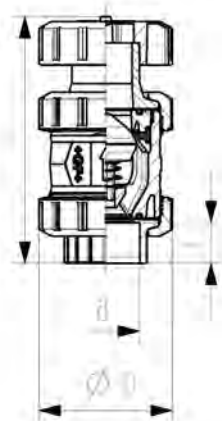
Model:

- With protection cap up to DN50 made from PP-GF, DN65-100 made from POM
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length

d [mm]	DN [mm]	PN [bar]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
16	10	16	163 591 001	1	0.137	163 591 011	1	0.137
20	15	16	163 591 002	1	0.137	163 591 012	1	0.137
25	20	16	163 591 003	1	0.283	163 591 013	1	0.303
32	25	16	163 591 004	1	0.314	163 591 014	1	0.314
40	32	16	163 591 005	1	0.542	163 591 015	1	0.542
50	40	16	163 591 006	1	0.779	163 591 016	1	0.779
63	50	16	163 591 007	1	1.566	163 591 017	1	1.576
75	65	16	163 591 008	1	3.460	163 591 018	1	3.480
90	80	16	163 591 009	1	5.540	163 591 019	1	5.570
110	100	16	163 591 010	1	8.930	163 591 020	1	8.970

d [mm]	D [mm]	L [mm]	t [mm]	closest inch [inch]
16	50	118	14	3/8
20	50	124	16	1/2
25	58	142	19	3/4
32	68	157	22	1
40	84	179	26	1 1/4
50	97	197	31	1 1/2
63	124	229	38	2
75	166	258	45	2 1/2
90	200	277	52	3
110	238	320	64	4

PF 2 32 987 311



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

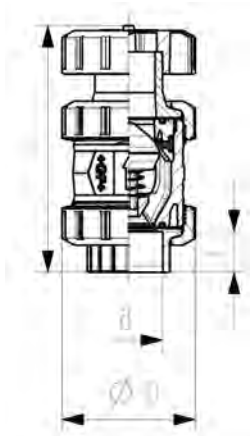
Model:

- With protection cap up to DN50 made from PP-GF, DN65-100 made from POM
- Spring loaded, spring made of NIMONIC 90, HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length

d [mm]	DN [mm]	PN [bar]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
16	10	16	163 595 001	1	0.137	163 595 011	1	0.137
20	15	16	163 595 002	1	0.137	163 595 012	1	0.137
25	20	16	163 595 003	1	0.283	163 595 013	1	0.303
32	25	16	163 595 004	1	0.314	163 595 014	1	0.314
40	32	16	163 595 005	1	0.542	163 595 015	1	0.542
50	40	16	163 595 006	1	0.779	163 595 016	1	0.779
63	50	16	163 595 007	1	1.566	163 595 017	1	1.576
75	65	16	163 595 008	1	3.460	163 595 018	1	3.480
90	80	16	163 595 009	1	5.540	163 595 019	1	5.570
110	100	16	163 595 010	1	8.930	163 595 020	1	8.970

d [mm]	D [mm]	L [mm]	t [mm]	closest inch [inch]
16	50	118	14	3/8
20	50	124	16	1/2
25	58	142	19	3/4
32	68	157	22	1
40	84	179	26	1 1/4

table continued next page



PF 2 32 987 411

d [mm]	D [mm]	L [mm]	t [mm]	closest inch [inch]	
50	97	197	31	1 ½	
63	124	229	38	2	
75	166	258	45	2 ½	
90	200	277	52	3	
110	238	320	64	4	



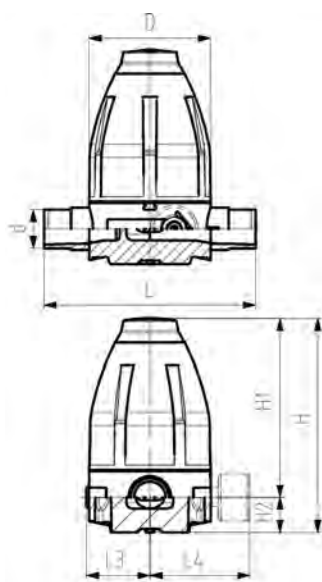
Pressure retaining valve type 586 PVC-C With solvent cement spigots metric Without manometer

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]	PN [bar]	O-rings EPDM Code	Weight [kg]	SP	GP	O-rings FPM Code	
16	10	10	163 586 001	0.640	1	0	163 586 011	
20	15	10	163 586 002	0.650	1	0	163 586 012	
25	20	10	163 586 003	1.470	1	0	163 586 013	
32	25	10	163 586 004	1.470	1	0	163 586 014	
40	32	10	163 586 005	4.100	1	0	163 586 015	
50	40	10	163 586 006	4.100	1	0	163 586 016	
63	50	10	163 586 007	4.180	1	0	163 586 017	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L3 [mm]	L5 [mm]	M	closest inch [inch]	
16	79	132	111	21	12	134	42	40	M6	¾	
20	79	132	111	21	12	134	42	40	M6	½	
25	100	177	148	29	14	174	53	46	M6	¾	
32	100	177	148	29	14	174	53	46	M6	1	
40	147	251	207	44	21	224	76	65	M8	1 ¼	
50	147	251	207	44	21	224	76	65	M8	1 ½	
63	147	251	207	44	21	244	76	65	M8	2	

PF 3 39 A71 002



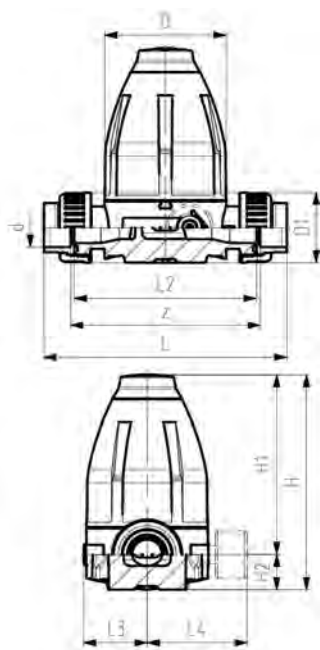
Pressure retaining valve type 586 PVC-C Unions with solvent cement sockets metric Without manometer

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]	PN [bar]	O-rings EPDM Code	Weight [kg]	SP	GP	O-rings FPM Code
20	15	10	163 586 102	0.720	1	0	163 586 112
25	20	10	163 586 103	1.560	1	0	163 586 113
32	25	10	163 586 104	1.600	1	0	163 586 114
40	32	10	163 586 105	4.360	1	0	163 586 115
50	40	10	163 586 106	4.430	1	0	163 586 116
63	50	10	163 586 107	4.690	1	0	163 586 117

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	43	132	111	21	12	162	120	42	40	M6	126	½
25	100	51	177	148	29	14	198	150	53	46	M6	156	¾
32	100	58	177	148	29	14	204	150	53	46	M6	156	1
40	147	72	251	207	44	21	267	205	76	65	M8	211	1 ¼
50	147	83	251	207	44	21	273	205	76	65	M8	211	1 ½
63	147	100	251	207	44	21	287	205	76	65	M8	211	2

PF 3 39 A71 002



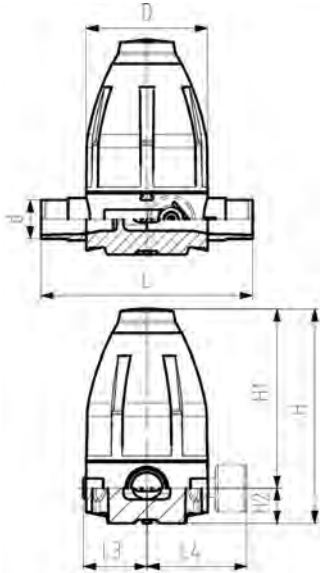
Pressure reducing valve type 582 PVC-C With solvent cement spigots metric Without manometer

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]	PN [bar]	O-rings EPDM Code	Weight [kg]	SP	GP	O-rings FPM Code
16	10	10	163 582 001	0.650	1	0	163 582 011
20	15	10	163 582 002	0.650	1	0	163 582 012
25	20	10	163 582 003	1.450	1	0	163 582 013
32	25	10	163 582 004	1.460	1	0	163 582 014
40	32	10	163 582 005	4.070	1	0	163 582 015
50	40	10	163 582 006	4.080	1	0	163 582 016
63	50	10	163 582 007	4.160	1	0	163 582 017

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L3 [mm]	L5 [mm]	M	closest inch [inch]
16	79	132	111	21	12	134	42	40	M6	3/8
20	79	132	111	21	12	134	42	40	M6	1/2
25	100	177	148	29	14	174	53	46	M6	3/4
32	100	177	148	29	14	174	53	46	M6	1
40	147	251	207	44	21	224	76	65	M8	1 1/4
50	147	251	207	44	21	224	76	65	M8	1 1/2
63	147	251	207	44	21	244	76	65	M8	2

PF 3 39 A71 001

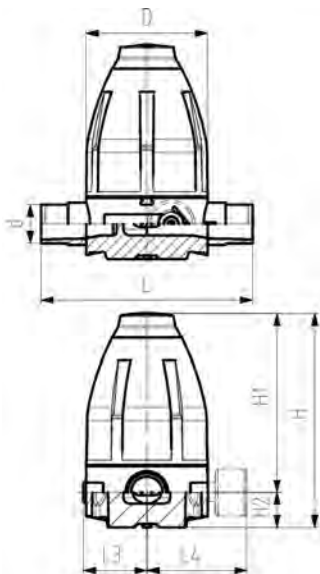


Pressure reducing valve type 582 PVC-C With solvent cement spigots metric With manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)
- Attention: Manometer with brass connection in direct contact with medium. Check for chemical resistance, otherwise chose the optional manometer adapter for media separation.

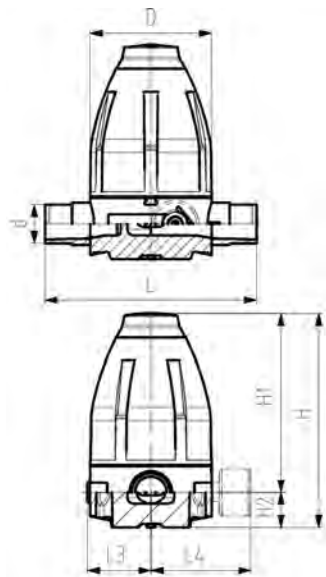
0.3-3.0 bar (4-44 psi) on request



d [mm]	DN [mm]	PN [bar]	O-rings EPDM Code	Weight [kg]	SP	GP	O-rings FPM Code
16	10	10	163 582 021	0.680	1	0	163 582 031
20	15	10	163 582 022	0.680	1	0	163 582 032
25	20	10	163 582 023	1.480	1	0	163 582 033
32	25	10	163 582 024	1.490	1	0	163 582 034
40	32	10	163 582 025	4.100	1	0	163 582 035
50	40	10	163 582 026	4.110	1	0	163 582 036
63	50	10	163 582 027	4.190	1	0	163 582 037

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L3 [mm]	L4 [mm]	L5 [mm]	M	closest inch [inch]
16	79	132	111	21	12	134	42	77	40	M6	3/8
20	79	132	111	21	12	134	42	77	40	M6	1/2
25	100	177	148	29	14	174	53	88	46	M6	3/4

table continued next page



PF 3 39 A71 001

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L3 [mm]	L4 [mm]	L5 [mm]	M	closest inch [inch]	
32	100	177	148	29	14	174	53	88	46	M6	1	
40	147	251	207	44	21	224	76	111	65	M8	1 ¼	
50	147	251	207	44	21	224	76	111	65	M8	1 ½	
63	147	251	207	44	21	244	76	111	65	M8	2	



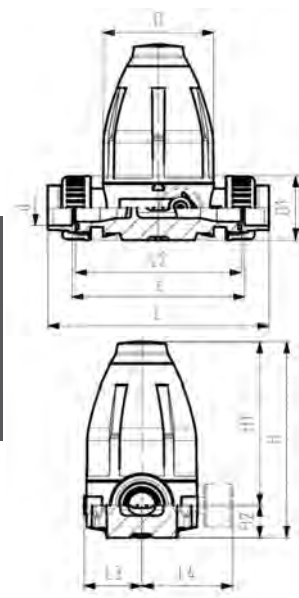
Pressure reducing valve type 582 PVC-C Unions with solvent cement sockets metric Without manometer

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]	PN [bar]	O-rings EPDM Code	Weight [kg]	SP	GP	O-rings FPM Code	
20	15	10	163 582 102	0.730	1	0	163 582 112	
25	20	10	163 582 103	1.540	1	0	163 582 113	
32	25	10	163 582 104	1.580	1	0	163 582 114	
40	32	10	163 582 105	4.220	1	0	163 582 115	
50	40	10	163 582 106	4.410	1	0	163 582 116	
63	50	10	163 582 107	4.660	1	0	163 582 117	

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	43	132	111	21	12	162	120	42	40	M6	126	½	
25	100	51	177	148	29	14	198	150	53	46	M6	156	¾	
32	100	58	177	148	29	14	204	150	53	46	M6	156	1	
40	147	72	251	207	44	21	267	205	76	65	M8	211	1 ¼	
50	147	83	251	207	44	21	273	205	76	65	M8	211	1 ½	
63	147	100	251	207	44	21	287	205	76	65	M8	211	2	

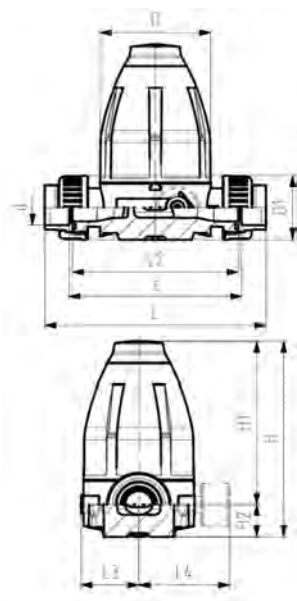
PF 3 39 A71 001



Pressure reducing valve type 582 PVC-C Unions with solvent cement sockets metric With manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)
- Attention: Manometer with brass connection in direct contact with medium. Check for chemical resistance, otherwise chose the optional manometer adapter for media separation.



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

d [mm]	DN [mm]	PN [bar]	O-rings EPDM Code	Weight [kg]	SP	GP	O-rings FPM Code
20	15	10	163 582 122	0.760	1	0	163 582 132
25	20	10	163 582 123	1.570	1	0	163 582 133
32	25	10	163 582 124	1.610	1	0	163 582 134
40	32	10	163 582 125	4.250	1	0	163 582 135
50	40	10	163 582 126	4.440	1	0	163 582 136
63	50	10	163 582 127	4.690	1	0	163 582 137

d [mm]	D [mm]	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	M	z [mm]
20	79	43	132	111	21	12	162	120	42	77	40	M6	126
25	100	51	177	148	29	14	198	150	53	88	46	M6	156
32	100	58	177	148	29	14	204	150	53	88	46	M6	156
40	147	72	251	207	44	21	267	205	76	111	65	M8	211
50	147	83	251	207	44	21	273	205	76	111	65	M8	211
63	147	100	251	207	44	21	287	205	76	111	65	M8	211

d [mm]	closest inch [inch]
20	¾
25	¾
32	1
40	1 ¼
50	1 ½
63	2

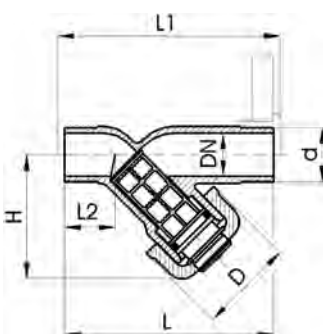
PF 3 39 A71 001



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

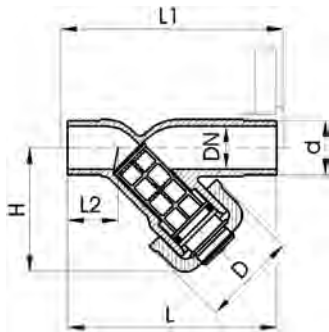
Model:

- Protects valves, pumps, etc. from becoming soiled
- Easy dismantling for cleaning the screens
- Overall length EN 558
- Cylindrical screen must be ordered separately



d [mm]	DN [mm]	PN [bar]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
20	15	10	163 305 302	1	0.110	163 305 317	1	0.120
25	20	10	163 305 303	1	0.160	163 305 318	1	0.160
32	25	10	163 305 304	1	0.250	163 305 319	1	0.250
40	32	10	163 305 305	1	0.380	163 305 320	1	0.640
50	40	10	163 305 306	1	0.640	163 305 321	1	0.640
63	50	10	163 305 307	1	1.072	163 305 322	1	1.076

table continued next page



PF 2 32 200 004

d [mm]	D [mm]	H [mm]	L [mm]	L1 [mm]	L2 [mm]	closest inch [inch]	
20	48	65	124	130	28	½	
25	54	76	144	150	37	¾	
32	62	90	154	160	37	1	
40	71	104	174	180	44	1 ¼	
50	88	124	194	200	48	1 ½	
63	103	148	224	230	60	2	



Screen stainless steel Screen perforation 0.5 mm

Model:

- Stainless Steel A4 Quality (AISI 316)

- For line strainers Type 305

d [mm]	DN [mm]	kv-value (Δp=1 bar) [l/min]	Code	D [mm]	L [mm]	closest inch [inch]	
20	15	35	161 486 100	14	39	½	
25	20	60	161 486 101	18	48	¾	
32	25	85	161 486 102	24	60	1	
40	32	130	161 486 103	30	71	1 ¼	
50	40	200	161 486 104	38	87	1 ½	
63	50	330	161 486 105	48	106	2	
75	65	460	161 486 106	61	100	2 ½	
90	80	665	161 486 107	73	118	3	

PF 2 32 200 999

CPVC Accessories

Accessories and special parts

Solvent cementing accessories

Tangit solvent cement for PVC-C



PF 2 28 473 006

Code	Weight [kg]	
799 298 027	0.700	



PF 2 28 473 001

Cap for cement

Model:

- Cap prevents the evaporation of the solvent whilst using the Tangit cement
- Tangit cement

Code	Weight [kg]	
799 298 028	0.035	

Cleaners

Tangit cleaner

Model:

- 1 litre tin



PF 2 28 473 002

Code	Weight [kg]	
799 298 010	0.900	

Brushes

Round brush



PF 2 30 217 004

#	d-d [mm]	Closest inch [inch]	Code	Weight [kg]	
4 mm (for Fittings 6-10mm)	6 - 10	1/8	799 299 001	0.004	
8 mm (for Fittings 12-32mm)	12 - 32	1/4 - 1	799 299 002	0.006	



Flat brush

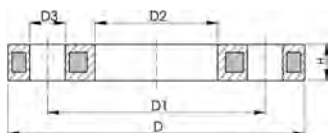
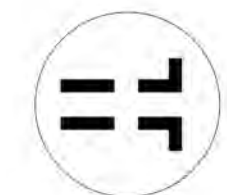
d-d [mm]	#	Closest inch [inch]	Code	Weight [kg]	
40 - 63	25x3 mm (for Fittings 40-63mm)	1 ¼ - 2	799 299 003	0.015	
75 - 225	50x5 mm (for Fittings 75-225mm)	2 ½ - 8	799 299 004	0.035	
250 - 400	75x6 mm (for Fittings 250-400mm)	9 - 16	799 299 005	0.053	

PF 2 30 217 005

Accessories

Flange Rings

Backing flange PP-Steel For butt fusion systems Inch ANSI



d [inch]	d [mm]	Code	PF	Weight [lb]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC	
½	20	727 701 206	2 34 238 021	0.470	95	60	28	16	12	4	M12	
¾	25	727 701 207	2 34 238 021	0.573	105	70	34	16	12	4	M12	
1	32	727 701 208	2 34 238 021	0.917	115	79	42	16	16	4	M12	
1 ¼	40	727 701 209	2 34 238 021	1.609	140	89	51	16	16	4	M16	
1 ½	50	727 701 210	2 34 238 021	1.784	150	98	62	16	18	4	M16	
2	63	727 701 211	2 34 238 021	1.909	165	121	78	19	18	4	M16	
2 ½	75	727 701 212	2 34 238 021	2.463	185	140	92	19	18	4	M16	
3	90	727 701 313	2 34 238 023	3.305	200	152	108	19	20	4	M16	
4	110	727 701 314	2 34 238 023	3.834	229	190	128	19	20	8	M16	
6	160	727 700 317	2 34 238 022	7.696	285	240	178	22	24	8	M20	
8	200	727 701 319	2 34 238 023	11.993	340	298	235	22	27	8	M20	
8	225	727 701 320	2 34 238 023	12.392	340	298	238	22	27	8	M20	

Backing flange PP-Steel For socket systems Inch/ANSI

- 727701214, 727700217: only for use with original metric flange adaptors
- AL: number of holes

Model:

- For Flange Adaptors BS/ANSI
- Material: PP (30 % glass-fibre reinforced) with steel ring
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**

d [inch]	d [mm]	Code	PF	Weight [lb]	D1 [mm]	D2 [mm]	D3 [mm]	D [mm]	H [mm]	AL	SC	
½	20	727 701 206	2 34 238 021	0.470	60	28	16	95	12	4	M12	
¾	25	727 701 207	2 34 238 021	0.573	70	34	16	105	12	4	M12	
1	32	727 701 208	2 34 238 021	0.917	79	42	16	115	16	4	M12	
1 ¼	40	727 701 209	2 34 238 021	1.609	89	51	16	140	16	4	M16	
1 ½	50	727 701 210	2 34 238 021	1.784	98	62	16	150	18	4	M16	
2	63	727 701 211	2 34 238 021	1.909	121	78	19	165	18	4	M16	
2 ½	75	727 701 212	2 34 238 021	2.463	140	92	19	185	18	4	M16	

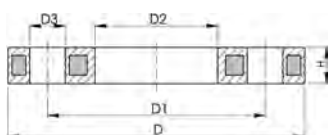
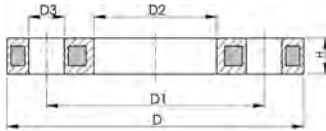


table continued next page



d [inch]	d [mm]	Code	PF	Weight [lb]	D1 [mm]	D2 [mm]	D3 [mm]	D [mm]	H [mm]	AL	SC
3	90	727 701 213	2 34 238 021	3.289	152	110	19	200	20	4	M16
4	110	727 701 214	2 34 238 021	3.737	190	133	19	229	20	8	M16
6	160	727 700 217	2 34 238 020	6.975	240	190	22	285	24	8	M20
8	225	727 701 220	2 34 238 021	9.861	298	250	22	340	27	8	M20



Backing flange PP-V For butt fusion systems Inch ANSI

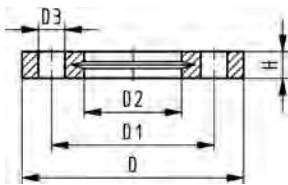
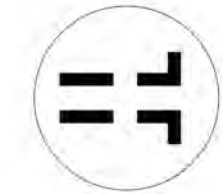
Model:

- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt-fixing as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**

AL: number of holes

¹⁾ Suitable for socket- and butt fusion systems (no pictograph on flange)

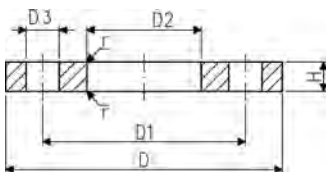
* Combined version, metric-ANSI



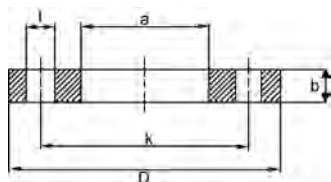
	Size [inch]	d [mm]	Code	PF	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
	½	20	727 701 406	2 34 238 032	95	60	28	16	16	4	M12
	¾	25	727 701 407	2 34 238 032	105	70	34	16	17	4	M12
	1	32	727 701 408	2 34 238 032	115	79	42	16	18	4	M12
	1 ¼	40	727 701 409	2 34 238 032	140	89	51	16	20	4	M16
	1 ½	50	727 701 410	2 34 238 032	150	98	62	16	22	4	M16
	2	63	727 701 411	2 34 238 032	165	121	78	19	24	4	M16
	2 ½	75	727 701 412	2 34 238 032	185	140	92	19	26	4	M16
	3	90	727 701 513	2 34 238 033	200	152	108	19	27	4	M16
	4	110	727 701 514	2 34 238 033	229	190	128	19	28	8	M16
	6	160	727 700 517	2 34 238 031	285	241	178	22	32	8	M20
*	8	200	727 700 519	2 34 238 031	340	297	235	22	34	8	M20
	8	225	727 700 520	2 34 238 031	340	297	238	22	34	8	M20
	10	250	727 701 521	2 34 238 033	406	362	288	26	38	12	M20
	10	280	727 701 522	2 34 238 033	406	362	294	26	38	12	M20
	12	315	727 701 523	2 34 238 033	483	432	338	26	42	12	M20



Galvanized Steel for Butt Fusion Systems Inch/ANSI



d [mm]	Code	PF	Weight [lb]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	AL	SC
25	724 701 807	2 30 164 004	0.597	98	70	34	16	4	M12x60
32	724 701 808	2 30 164 004	0.791	108	79	42	16	4	M12x60
40	724 701 809	2 30 164 004	1.058	117	89	51	16	4	M12x70
50	724 701 810	2 30 164 004	0.873	127	98	62	16	4	M12x75
63	724 701 811	2 30 164 004	1.493	152	121	78	19	4	M16x80
75	724 701 812	2 30 164 004	2.646	178	140	92	19	4	M16x85
90	724 701 813	2 30 164 004	2.202	190	152	110	19	4	M16x90
110	724 703 814	2 30 164 004	4.433	229	190	133	19	8	M16x95
160	724 701 917	2 34 238 007	0.002	279	241	178	22	8	M20x120
200	724 701 919	2 34 238 007	0.002	348	298	235	22	8	M20x150
225	724 701 920	2 34 238 007	0.002	343	298	238	22	8	M20x150
250	724 701 921	2 30 164 001	17.015	406	362	288	22	12	M20x240
315	724 701 923	2 30 164 001	25.022	483	432	338	22	12	M20x260



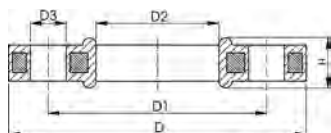
PVDF Coated Steel for Butt Fusion Systems Inch/ANSI Flange Ring blue coated steel

Material: PVDF blue coated steel

Bolt holes drilled in accordance with ANSI B16.5, Class 150 pattern

d [mm]	Size [inch]	Code	Weight [lb]	D [inch]	a [inch]	k [inch]	b [inch]	l [inch]	Bolt Holes
25	¾	155 701 807	0.00	3.86	1.34	2.76	0.28	0.63	4
20	½	155 701 806	0.00	3.50	1.10	2.36	0.28	0.63	4
32	1	155 701 808	0.00	4.25	1.65	3.11	0.28	0.63	4
40	1 ¼	155 701 809	0.00	4.61	2.01	3.50	0.32	0.63	4
50	1 ½	155 701 810	0.00	5.00	2.44	3.86	0.32	0.63	4
63	2	155 701 811	0.00	5.98	3.07	4.76	0.39	0.75	4
75	2 ½	155 701 812	0.00	7.01	3.62	5.51	0.39	0.75	4
90	3	155 701 813	0.00	7.48	4.33	5.98	0.39	0.75	4
110	4	155 703 814	0.00	9.02	5.24	7.48	0.39	0.75	8
160	6	155 701 917	0.00	10.98	7.05	9.48	0.50	0.88	8
200	8	155 701 919	0.00	13.50	9.30	11.73	0.63	0.88	8
225	9	155 701 920	0.00	13.50	9.42	11.73	0.63	0.88	8
250	10	155 701 921	0.00	16.00	11.35	14.25	0.88	0.88	12
315	12	155 701 923	0.00	19.00	13.31	17.00	1.00	1.00	12
355	14	155 701 924	0.00	21.00	14.80	18.75	1.00	1.00	12
400	16	155 701 925	0.00	23.50	16.93	21.25	1.13	1.13	16

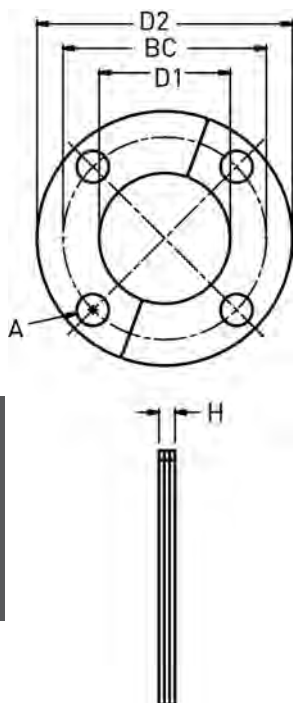
PF 2 34 238 007



Backing flange PVDF coated steel for butt fusion systems inch/ANSI

d [mm]	Size [mm]	Code	Weight [lb]	D1 [mm]	D2 [mm]	D3 [mm]	D [mm]	Bolt Holes	H [mm]
355	14	155 801 924	0.002	476	376	30	533	12	30
400	16	155 801 925	0.002	540	429	30	597	16	33
450	18	155 801 926	0.002	578	470	33	637	16	36

PF 2 34 238 007



Flange Ring, Two-Piece Corrosion Resistant Flange Back- ing Rings

The split ring design allows for a flange ring to be added after a flange adapter has been joined to the pipe for retrofit purposes. Flange is made from 304 stainless steel.

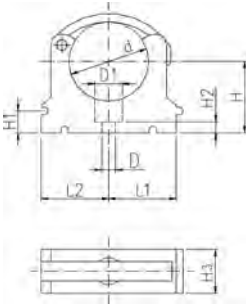
d [mm]	Size [inch]	Code	PF	Weight [lb]	D1 [mm]	D2 [mm]	H [mm]	B.C [mm]	A [mm]	Bolt Holes
20	¾	150 701 806	2 34 238 008	0.002	28	89	10	60	16	4
25	¾	150 701 807	2 34 238 008	1.301	34	98	10	70	16	4
32	1	150 701 808	2 34 238 008	0.002	42	108	10	79	16	4
40	1 ¼	150 701 809	2 34 238 008	0.002	51	117	10	89	16	4
50	1 ½	150 701 810	2 34 238 008	0.002	62	127	10	98	16	4
63	2	150 701 811	2 34 238 008	0.002	78	152	10	121	19	4
75	2 ½	150 701 812	2 34 238 008	0.002	92	178	11	140	19	4
90	3	150 701 813	2 34 238 007	0.002	110	190	11	152	19	4
110	4	150 701 814	2 34 238 008	0.002	133	229	11	190	19	8
160	6	150 701 817	2 34 238 008	0.002	179	279	19	241	22	8
200	8	150 701 819	2 34 238 008	17.600	236	343	19	298	22	8
225	9	150 701 820	2 34 238 008	17.200	239	343	19	298	22	8
250	10	150 701 821	2 34 238 008	35.300	288	406	29	362	22	12
315	12	150 701 823	2 34 238 008	51.000	338	483	29	432	25	12

Pipe Support

KLIP-IT pipe clip type 061 PP ASTM

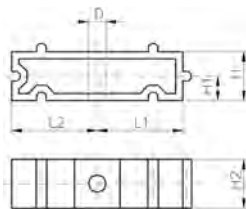
Model:

- For inch pipes to ASTM/ANSI
- Material: Clip and safety clip PP black, UV resistant, bolts galvanized
- UV resistant
- **Minimum order quantity: standard packaging SP**



d [mm]	d [inch]	Code	PF	SP	Weight [kg]	
90	1/4	167 061 054	2 30 162 029	10	0.003	
	3/8	167 061 055	2 30 162 029	10	0.007	
	1/2	167 061 056	2 30 162 029	10	0.007	
	3/4	167 061 057	2 30 162 029	10	0.008	
	1	167 061 058	2 30 162 029	10	0.009	
	1	167 061 059	2 30 162 029	10	0.012	
	1 1/2	167 061 060	2 30 162 029	10	0.022	
	2	167 061 061	2 30 162 029	10	0.030	
	2 1/2	167 061 112	2 30 162 029	10	0.062	
	3	167 061 013	2 30 162 023	10	0.092	
140	4	167 061 114	2 30 162 023	10	0.114	
	5	167 061 016	2 30 162 023	10	0.224	

d [mm]	d [inch]	D1 [mm]	D [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	SC	closest inch [inch]	
90	1/4	8	5	11	14	21	10	6	12	M5		
	3/8	10	6	14	17	23	10	6	16	M5		
	1/2	10	6	17	19	25	10	6	16	M5		
	3/4	10	6	19	22	28	10	6	16	M5		
	1	10	6	24	27	31	10	6	16	M5		
	1	14	7	34	34	35	10	7	22	M6		
	1 1/2	14	7	37	37	40	10	7	22	M6		
	2	17	9	45	45	52	10	10	25	M8		
	2 1/2	17	9	52	52	58	10	10	25	M8		
	3	17	9	65	65	65	10	10	28	M8	3	
140	4	17	9	79	79	81	10	10	28	M8		
	5	17	9	98	98	110	10	10	32	M8	5	



KLIP-IT spacer type 061 PP

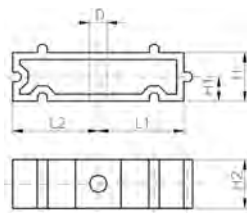
Model:

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

d [mm]	Inch [inch]	Code	Weight [kg]	
10 - 12	1/8 - 1/4	167 061 153	0.003	
16	3/8	167 061 155	0.005	
20	1/2	167 061 156	0.005	
25	3/4	167 061 157	0.007	
32	1	167 061 158	0.006	
40	1 1/4	167 061 159	0.015	
50	1 1/2	167 061 160	0.017	
63	2	167 061 161	0.020	
75	2 1/2	167 061 162	0.027	
90	3	167 061 163	0.039	
110	4	167 061 164	0.048	
140	5	167 061 166	0.065	

d [mm]	Inch [inch]	HoH +/- 2mm [mm]	D [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	SC	
10 - 12	1/8 - 1/4	1	5	11	14	20	10	12	M4	
16	3/8	17	6	14	17	20	10	16	M5	
20	1/2	21	6	17	19	20	10	16	M5	
25	3/4	27	6	19	22	20	10	16	M5	
32	1	37	6	24	27	20	10	16	M5	
40	1 1/4	44	7	34	34	20	10	22	M6	
50	1 1/2	52	7	37	37	20	10	22	M6	

table continued next page



PF 2 30 162 023

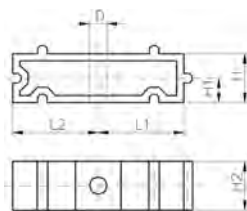
d [mm]	Inch [inch]	HoH +/- 2mm [mm]	D [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	SC	
63	2	67	9	45	45	20	10	25	M8	
75	2 1/2	81	9	52	52	20	10	25	M8	
90	3	100	9	65	65	20	10	28	M8	
110	4	127	9	79	79	20	10	28	M8	
140	5	161	9	98	98	20	10	32	M8	



KLIP-IT spacer type 061 PE

Model:

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



d-d [mm]	Inch [inch]	Code	PF	SP	Weight [kg]	
10 - 12	1/8-1/4	173 061 153	2 30 162 023	10	0.003	
16	3/8	173 061 155	2 30 162 023	10	0.005	
25	3/4	173 061 157	2 30 162 023	10	0.006	
32	1	173 061 158	2 30 162 023	10	0.008	
40	1 1/4	173 061 159	2 30 162 023	10	0.016	
50	1 1/2	173 061 160	2 30 162 023	10	0.017	
63	2	173 061 161	2 30 162 023	10	0.025	
75	2 1/2	173 061 162	2 30 162 023	10	0.027	
90	3	173 061 163	2 30 162 026	10	0.040	
110	4	173 061 164	2 30 162 026	10	0.050	
140	5	173 061 166	2 30 162 026	10	0.065	
20	1/2	173 061 156	2 30 162 023	10	0.005	

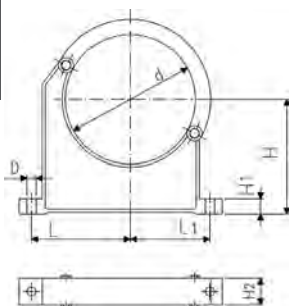
d-d [mm]	Inch [inch]	D [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	HoH +/- 2mm [mm]	SC	
10 - 12	1/8-1/4	5	11	14	20	10	12	17	M4	
16	3/8	6	14	17	20	10	16	21	M5	
25	3/4	6	19	22	20	10	16	37	M5	
32	1	6	24	27	20	10	16	44	M5	
40	1 1/4	7	34	34	20	10	22	52	M6	
50	1 1/2	7	37	37	20	10	22	67	M6	
63	2	9	45	45	20	10	25	81	M8	
75	2 1/2	9	52	52	20	10	25	100	M8	
90	3	9	65	65	20	10	28	127	M8	
110	4	9	79	79	20	10	28	143	M8	
140	5	9	98	98	20	10	32	185	M8	
20	1/2	6	17	19	20	10	16	27	M5	



Pipe clip type 060 PP ASTM

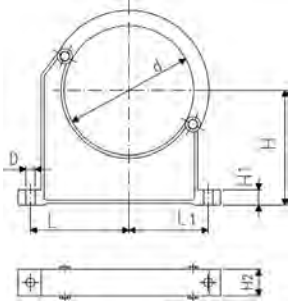
Model:

- for ASTM/ANSI pipes 3" - 8"
- Material: Clip and safety clip PP black, UV resistant, bolts galvanized
- UV resistant
- Technical features: Accidental opening of the safety clip is not possible
- Accidental opening of the safety clip is not possible
- **Minimum order quantity: standard packaging SP or gross packaging GP**
- Clip and safety clip are not assembled in the packaging.

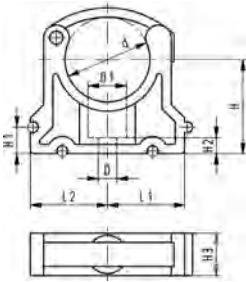


d [inch]	d [mm]	Code	PF	SP	GP	Weight [kg]	
3	90	167 060 038	2 30 162 023	10	40	0.144	
4		167 060 064	2 30 162 029	10	30	0.160	
5	140	167 060 041	2 30 162 023	10	20	0.260	
6		167 060 067	2 30 162 029	10	20	0.302	
8		167 060 070	2 30 162 029	5	0	0.514	

table continued next page



d [inch]	d [mm]	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	H2 [mm]	SC	closest inch [inch]	
3	90	9	89	71	105	15	33	M 8	3	
4		9	100	82	120	15	33	M 8		
5	140	11	121	98	130	20	35	M10	5	
6		11	136	111	148	25	35	M 10		
8		13	165	132	175	25	39	M 12		



KLIP-IT pipe clip type 061H PP BS/ASTM

Model:

- Minimum order quantity: standard packaging SP
- 3/8" - 2": height designed for Ball Valve Type 546 and 543
- Material: PP black, UV resistant

d [inch]	Code	PF	SP	Weight [kg]	
1/4	167 061 054	2 30 162 029	10	0.003	
3/8	167 061 085	2 30 162 023	10	0.006	
1/2	167 061 086	2 30 162 023	10	0.009	
3/4	167 061 087	2 30 162 023	10	0.007	
1	167 061 088	2 30 162 023	10	0.012	
1 1/4	167 061 089	2 30 162 023	10	0.025	
1 1/2	167 061 090	2 30 162 023	10	0.032	
2	167 061 091	2 30 162 023	10	0.052	
2 1/2	167 061 112	2 30 162 029	10	0.062	
3	167 061 013	2 30 162 023	10	0.092	
4	167 061 114	2 30 162 023	10	0.114	
5	167 061 016	2 30 162 023	10	0.224	

d [inch]	D [mm]	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L1 [mm]	L2 [mm]	SC	closest inch [inch]	
1/4	5	8	21	10	6	12	11	14	M5		
3/8	6	10	27	10	6	16	14	17	M5		
1/2	6	10	27	10	6	16	17	19	M5		
3/4	6	10	30	10	6	16	19	22	M5		
1	6	10	36	10	6	16	24	27	M5		
1 1/4	7	14	44	10	7	22	34	34	M6		
1 1/2	7	14	51	10	7	22	37	37	M6		
2	9	17	64	10	10	25	45	45	M8		
2 1/2	9	17	58	10	10	25	52	52	M8		
3	9	17	65	10	10	28	65	65	M8	3	
4	9	17	81	10	10	28	79	79	M8		
5	9	17	110	10	10	32	98	98	M8	5	



KLIP-IT pipe clip type 061 PP metric

Model:

- Material: Clip and safety clip PP black, UV resistant, bolts galvanized
- d16 - d63: Height designed for Ball Valve Type 546 and 543
- **Minimum order quantity: standard packagings SP**

d [inch]	d [mm]	Code	
	10	167 061 003	
	12	167 061 004	
	16	167 061 035	
	20	167 061 036	
	25	167 061 037	
	32	167 061 038	
	40	167 061 039	
	50	167 061 040	
	63	167 061 041	
2 ½	75	167 061 012	
3	90	167 061 013	
4	110	167 061 014	
	125	167 061 015	
5	140	167 061 016	
	160	167 061 017	

H1 [mm]	H3 [mm]	closest inch [inch]	D1 [mm]	HoH +/- 2mm [mm]	L1 [mm]	D [mm]	H [mm]	L2 [mm]	H2 [mm]	SC	
10	12	¼	8		11	5	20	14	6	M4	
10	12	¼	8		11	5	21	14	6	M5	
10	16	⅜	11	17	14	6	27	17	6	M5	
10	16	½	11	21	17	6	27	19	6	M5	
10	16	¾	11	27	19	6	30	22	6	M5	
10	16	1	11	37	24	6	36	27	6	M5	
10	22	1 ¼	14	44	34	7	44	34	7	M6	
10	22	1 ½	14	52	37	7	51	37	7	M6	
10	25	2	17	67	45	9	64	45	10	M8	
10	25	2 ½	17		52	9	58	52	10	M8	
10	28	3	17		65	9	65	65	10	M8	
10	28	4	17		79	9	75	79	10	M8	
10	32		17		88	9	90	88	10	M8	
10	32	5	17		98	9	110	98	10	M8	
10	32	6	17		109	9	108	109	10	M8	

PF 2 30 162 023



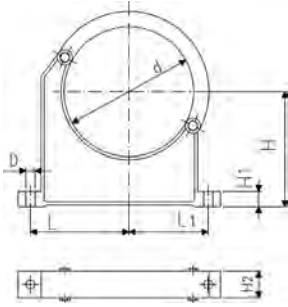
KLIP-IT spacer type 061 PP

Model:

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

Inch [inch]	d [mm]	Code	HoH +/- 2mm [mm]	D [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	SC	
¾ - ¼	10 - 12	167 061 153	1.0	5	11	14	20	10	12	M4	
¾	16	167 061 155	17.0	6	14	17	20	10	16	M5	
½	20	167 061 156	21.4	6	17	19	20	10	16	M5	
¾	25	167 061 157	26.9	6	19	22	20	10	16	M5	
1	32	167 061 158	36.7	6	24	27	20	10	16	M5	
1 ¼	40	167 061 159	44.4	7	34	34	20	10	22	M6	
1 ½	50	167 061 160	52.3	7	37	37	20	10	22	M6	
2	63	167 061 161	66.7	9	45	45	20	10	25	M8	
2 ½	75	167 061 162	81.2	9	52	52	20	10	25	M8	
3	90	167 061 163	100.0	9	65	65	20	10	28	M8	
4	110	167 061 164	127.3	9	79	79	20	10	28	M8	
4 ½	125	167 061 165	142.9	9	88	88	20	10	32	M8	
5	140	167 061 166	161.4	9	98	98	20	10	32	M8	
6	160	167 061 167	185.1	9	109	109	20	10	32	M8	

PF 2 30 162 023



Pipe clip type 060 PP metric

Model:

- Material: Clip and safety clip PP black, UV resistant, bolts galvanized
- **Minimum order quantity: standard packaging SP or gross packaging GP**
- Accidental opening of the safety clip is not possible
- Clip and safety clip are not assembled in the packaging.
- Pipes with flanges can be installed directly

d [inch]	d [mm]	Code	closest inch [inch]	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	H2 [mm]	SC	
3	90	167 060 038	3	9	89	71	105	15	33	M 8	
	110	167 060 039	4	9	94	80	115	15	33	M 8	
	125	167 060 040		11	116	91	130	20	35	M10	
5	140	167 060 041	5	11	121	98	130	20	35	M10	
	160	167 060 042	6	11	131	107	148	20	35	M10	
	180	167 060 043	7	11	143	115	163	20	35	M10	
	200	167 060 019	8	13	152	120	175	25	39	M12	
	225	167 060 020	8	13	165	132	175	25	39	M12	
	250	167 060 021	9	13	183	143	200	25	39	M12	
	280	167 060 022	10	13	198	156	200	25	39	M12	
	315	167 060 023	12	13	219	172	225	25	39	M12	
	355	167 060 024	14	17	275	209	258	30	50	M16	
	400	167 060 025	16	17	300	228	288	30	50	M16	

PF 2 30 162 023

Double-See™

Pipes

Pipe, PVC 80 x PVC 80 (20-ft lengths)

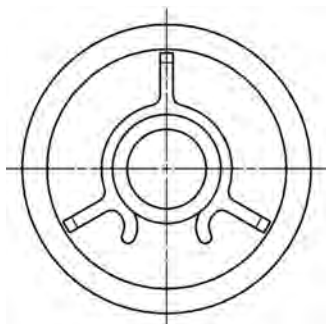


Size [inch]	Code	
1/2 x 2	8808005020AB	
3/4 x 3	8808007030AB	
1 x 3	8808010030AB	
1 1/2 x 4	8808015040AB	
2 x 4	8808020040AB	
3 x 6	8808030060AB	
4 x 8	8808040080AB	
6 x 10	8808060100AB	

Pipe, CPVC 80 x PVC 80 (20-ft lengths)

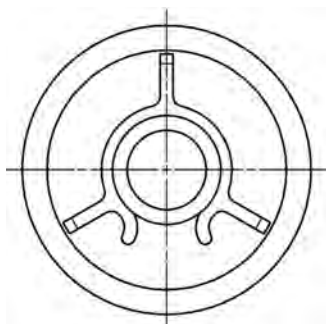


Size [inch]	Code	
1/2 x 2	9808005020AB	
3/4 x 3	9808007030AB	
1 x 3	9808010030AB	
1 1/2 x 4	9808015040AB	
2 x 4	9808020040AB	
3 x 6	9808030060AB	
4 x 8	9808040080AB	
6 x 10	9808060100AB	



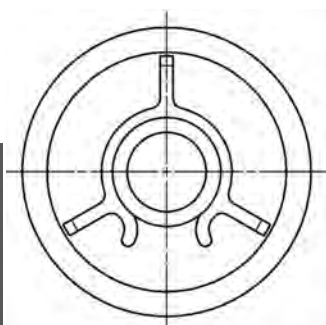
Pipe, CPVC 80 x CPVC 80 (20-ft lengths)

Size [inch]	Code	
½ x 2	9908005020AB	
¾ x 3	9908007030AB	
1 x 3	9908010030AB	
1 ½ x 4	9908015040AB	
2 x 4	9908020040AB	
3 x 6	9908030060AB	
4 x 8	9908040080AB	
6 x 10	9908060100AB	



Pipe, PVC 80 x PVC 40 Clear (20-ft lengths)

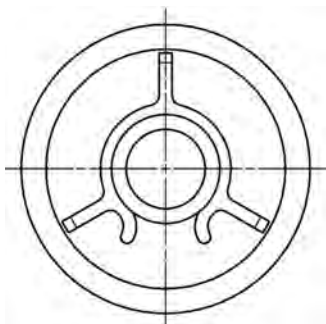
Size [inch]	Code	
½ x 2	8308005020AB	
¾ x 3	8308007030AB	
1 x 3	8308010030AB	
1 ½ x 4	8308015040AB	
2 x 4	8308020040AB	
3 x 6	8308030060AB	
4 x 8	8308040080AB	
6 x 10	8308060100AB	



Pipe, CPVC 80 x PVC 40 Clear (20-ft lengths)

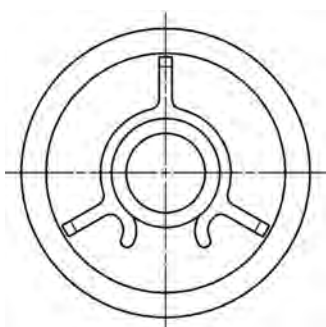
Size [inch]	Code	
½ x 2	9308005020AB	
¾ x 3	9308007030AB	
1 x 3	9308010030AB	
1 ½ x 4	9308015040AB	
2 x 4	9308020040AB	
3 x 6	9308030060AB	
4 x 8	9308040080AB	
6 x 10	9308060100AB	

Pipe, PVC 80 x PVC 40 (20-ft lengths)



Size [inch]	Code	
½ x 2	8408005020AB	
¾ x 3	8408007030AB	
1 x 3	8408010030AB	
1 ½ x 4	8408015040AB	
2 x 4	8408020040AB	
3 x 6	8408030060AB	
4 x 8	8408040080AB	
6 x 10	8408060100AB	

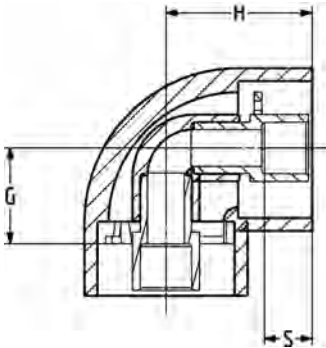
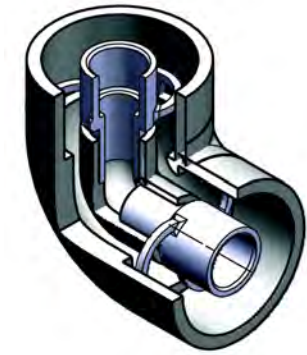
Pipe, CPVC 80 x PVC 40 (20-ft lengths)



Size [inch]	Code	
½ x 2	9408005020AB	
¾ x 3	9408007030AB	
1 x 3	9408010030AB	
1 ½ x 4	9408015040AB	
2 x 4	9408020040AB	
3 x 6	9408030060AB	
4 x 8	9408040080AB	
6 x 10	9408060100AB	

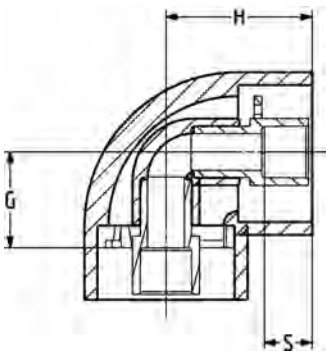
Elbows

90° Elbow, PVC 80 x PVC 80



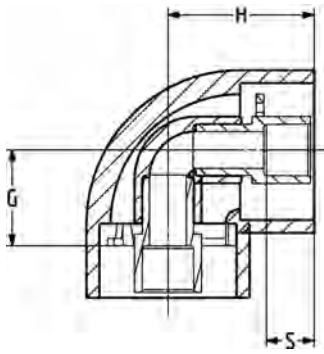
Size [inch]	Code	G [inch]	H [inch]	S [inch]
½ x 2	8806005020	1.90	2.78	0.88
¾ x 3	8806007030	2.75	3.75	1.00
1 x 3	8806010030	2.56	3.75	1.19
1 ½ x 4	8806015040	3.20	4.60	1.40
2 x 4	8806020040	3.10	4.60	1.50
3 x 6	8806030060	4.80	6.70	1.90
4 x 8	8806040080	6.47	8.67	2.20
6 x 10	8806060100	7.77	10.77	3.00

90° Elbow, CPVC 80 x PVC 80



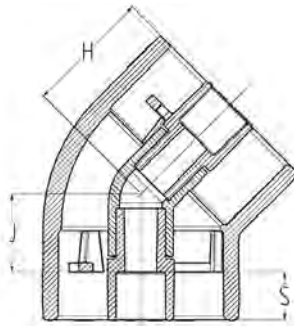
Size [inch]	Code	G [inch]	H [inch]	S [inch]
½ x 2	9806005020	1.90	2.78	0.88
¾ x 3	9806007030	2.75	3.75	1.00
1 x 3	9806010030	2.56	3.75	1.19
1 ½ x 4	9806015040	3.20	4.60	1.40
2 x 4	9806020040	3.10	4.60	1.50
3 x 6	9806030060	4.80	6.70	1.90
4 x 8	9806040080	6.47	8.67	2.20
6 x 10	9806060100	7.77	10.77	3.00

90° Elbow, CPVC 80 x CPVC 80

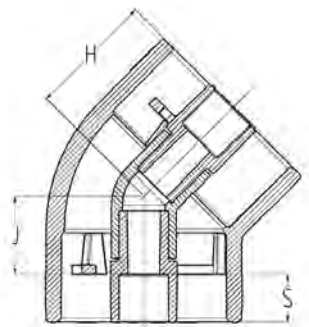


Size [inch]	Code	G [inch]	H [inch]	S [inch]	
½ x 2	9906005020	1.90	2.78	0.88	
¾ x 3	9906007030	2.75	3.75	1.00	
1 x 3	9906010030	2.56	3.75	1.19	
1 ½ x 4	9906015040	3.19	4.59	1.40	
2 x 4	9906020040	3.09	4.59	1.50	
3 x 6	9906030060	4.80	6.70	1.90	
4 x 8	9906040080	6.32	8.52	2.20	
6 x 10	9906060100	7.70	10.70	3.00	

45° Elbow, PVC 80 x PVC 80

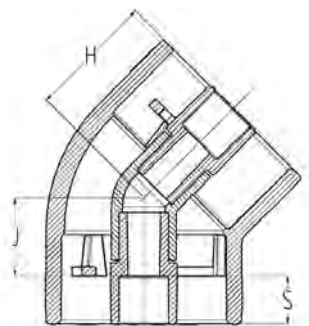


Size [inch]	Code	J [inch]	H [inch]	S [inch]	
½ x 2	8817005020	1.29	2.16	0.87	
¾ x 3	8817007030	1.66	2.66	1.00	
1 x 3	8817010030	1.52	2.66	1.14	
1 ½ x 4	8817015040	1.91	3.24	1.33	
2 x 4	8817020040	1.74	3.24	1.50	
3 x 6	8817030060	3.01	4.81	1.80	
4 x 8	8817040080	4.02	6.11	2.20	
6 x 10	8817060100	4.77	7.50	3.00	



45° Elbow, CPVC 80 x PVC 80

Size [inch]	Code	J [inch]	H [inch]	S [inch]	
½ x 2	9817005020	1.29	2.16	0.87	
¾ x 3	9817007030	1.66	2.66	1.00	
1 x 3	9817010030	1.52	2.66	1.14	
1 ½ x 4	9817015040	1.91	3.24	1.33	
2 x 4	9817020040	1.74	3.24	1.50	
3 x 6	9817030060	3.01	4.81	1.80	
4 x 8	9817040080	4.02	6.11	2.20	
6 x 10	9817060100	4.77	7.50	3.00	

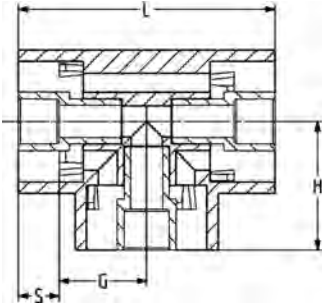
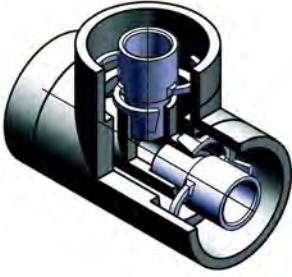


45° Elbow, CPVC 80 x CPVC 80

Size [inch]	Code	J [inch]	H [inch]	S [inch]	
½ x 2	9917005020	1.29	2.16	0.87	
¾ x 3	9917007030	1.66	2.66	1.00	
1 x 3	9917010030	1.52	2.66	1.14	
1 ½ x 4	9917015040	1.91	3.24	1.33	
2 x 4	9917020040	1.74	3.24	1.50	
3 x 6	9917030060	3.01	4.81	1.80	
4 x 8	9917040080	4.02	6.11	2.20	
6 x 10	9917060100	4.77	7.50	3.00	

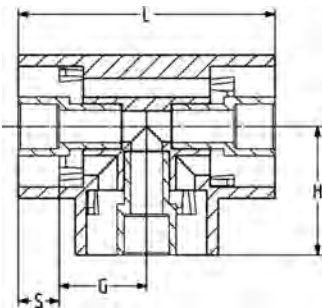
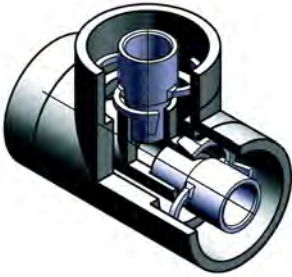
Tees

Tee, PVC 80 x PVC 80

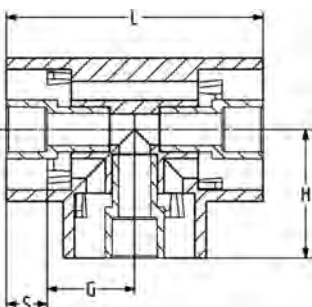
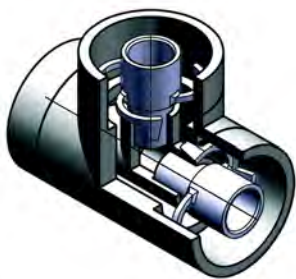


Size [inch]	Code	L [inch]	H [inch]	G [inch]	S [inch]	
½ x 2	8801005020	5.56	2.78	1.90	0.88	
¾ x 3	8801007030	7.50	3.75	2.75	1.00	
1 x 3	8801010030	7.50	3.75	2.56	1.19	
1 ½ x 4	8801015040	9.26	4.63	3.23	1.40	
2 x 4	8801020040	9.26	4.63	3.13	1.50	
3 x 6	8801030060	13.26	6.63	4.73	1.90	
4 x 8	8801040080	17.40	8.70	6.50	2.20	
6 x 10	8801060100	21.70	10.85	7.85	3.00	

Tee, CPVC 80 x PVC 80

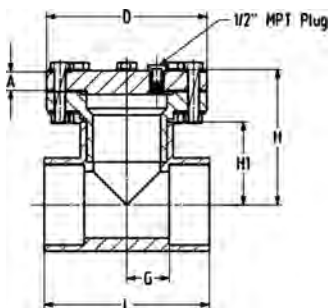


Size [inch]	Code	L [inch]	H [inch]	G [inch]	S [inch]	
½ x 2	9801005020	5.56	2.78	1.90	0.88	
¾ x 3	9801007030	7.50	3.75	2.75	1.00	
1 x 3	9801010030	7.50	3.75	2.56	1.19	
1 ½ x 4	9801015040	9.26	4.63	3.23	1.40	
2 x 4	9801020040	9.26	4.63	3.13	1.50	
3 x 6	9801030060	13.26	6.63	4.73	1.90	
4 x 8	9801040080	17.40	8.70	6.50	2.20	
6 x 10	9801060100	21.70	10.85	7.85	3.00	



Tee, CPVC 80 x CPVC 80

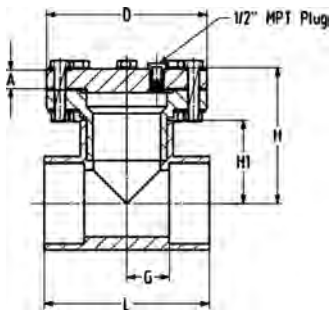
Size [inch]	Code	L [inch]	H [inch]	G [inch]	S [inch]	
1/2 x 2	9901005020	5.64	2.82	1.94	0.88	
3/4 x 3	9901007030	7.50	3.75	2.75	1.00	
1 x 3	9901010030	7.50	3.75	2.56	1.19	
1 1/2 x 4	9901015040	9.26	4.63	3.23	1.40	
2 x 4	9901020040	9.26	4.63	3.13	1.50	
3 x 6	9901030060	13.06	6.53	4.63	1.90	
4 x 8	9901040080	17.26	8.63	6.43	2.20	
6 x 10	9901060100	22.50	11.25	8.25	3.00	



Access Tee, PVC

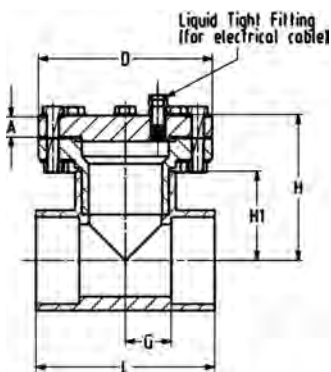
Size [inch]	Code	L [inch]	H1 [inch]	G [inch]	D [inch]	H [inch]	A [inch]	
2	8801853020	5.56	2.78	1.29	6.00	4.93	0.92	
3	8801853030	7.50	3.75	1.85	7.50	6.40	1.03	
4	8801853040	9.26	4.63	2.38	9.00	7.75	1.35	
6	8801853060	13.26	6.63	3.55	11.00	10.04	1.49	
8	8801853080	17.40	8.70	4.59	13.50	13.07	1.63	
10	8801853100	21.70	10.85	5.57	16.00	15.14	1.00	

Access Tee, CPVC



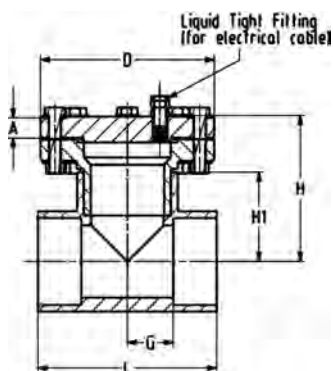
Size [inch]	Code	L [inch]	H1 [inch]	G [inch]	D [inch]	H [inch]	A [inch]	
2	9801853020	5.64	2.82	1.32	6.00	4.96	0.92	
3	9801853030	7.50	3.75	1.85	7.50	6.40	1.03	
4	9801853040	9.26	4.63	2.38	9.00	7.75	1.35	
6	9801853060	13.06	6.53	3.53	11.00	10.02	1.49	
8	9801853080	17.26	8.63	4.59	13.50	13.07	1.63	
10	9801853100	22.50	11.25	5.75	16.00	15.14	1.00	

Access Tee (Liquid Tight), PVC



Size [inch]	Code	L [inch]	H1 [inch]	G [inch]	D [inch]	H [inch]	A [inch]	
2	8801853020LT	5.56	2.78	1.29	6.00	4.93	0.92	
3	8801853030LT	7.50	3.75	1.85	7.50	6.40	1.03	
4	8801853040LT	9.26	4.63	2.38	9.00	7.75	1.35	
6	8801853060LT	13.26	6.63	3.55	11.00	10.04	1.49	
8	8801853080lt	17.40	8.70	4.59	13.50	13.07	1.63	
10	8801853100LT	21.70	10.85	5.75	16.00	15.14	1.00	

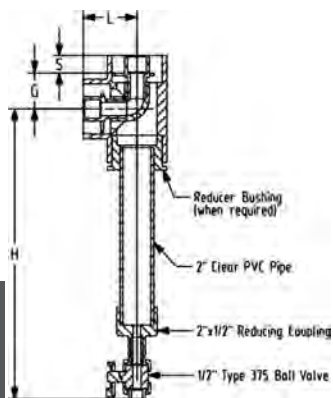
Access Tee (Liquid Tight), CPVC



Size [inch]	Code	L [inch]	H1 [inch]	G [inch]	D [inch]	H [inch]	A [inch]	
2	9801853020LT	5.64	2.82	1.32	6.00	4.96	0.92	
3	9801853030LT	7.50	3.75	1.85	7.50	6.40	1.03	
4	9801853040LT	9.26	4.63	2.38	9.00	7.75	1.35	
6	9801853060LT	13.06	6.53	3.53	11.00	10.02	1.49	
8	9801853080LT	17.26	8.63	4.59	13.50	13.07	1.63	
10	9801853100LT	22.50	11.25	5.75	16.00	15.14	1.00	

90° Low Point Drain/High Point Vent Tee PVC 80 x PVC 80

Visual Leak Detection

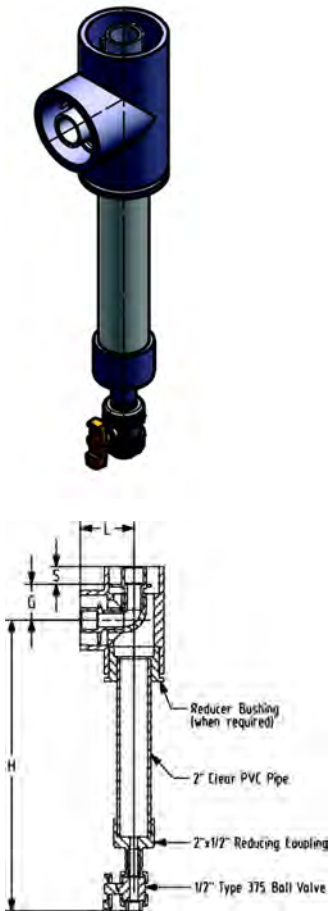


Size [inch]	Code	G [inch]	L [inch]	S [inch]	H [inch]	
1/2 x 2	8802005020	1.90	2.78	0.88	19.66	
3/4 x 3	8802007030	2.75	3.75	1.00	20.28	
1 x 3	8802010030	2.56	3.75	1.79	20.28	
1 1/2 x 4	8802015040	3.23	4.53	1.40	20.76	
2 x 4	8802020040	3.13	4.63	1.50	20.76	
3 x 6	8802030060	4.73	6.63	1.90	24.09	
4 x 8	8802040080	6.50	8.70	2.20	24.47	
6 x 10	8802060100	7.85	10.85	3.00	27.75	

90° Low Point Drain/High Point Vent Tee CPVC 80 x PVC 80

Visual Leak Detection

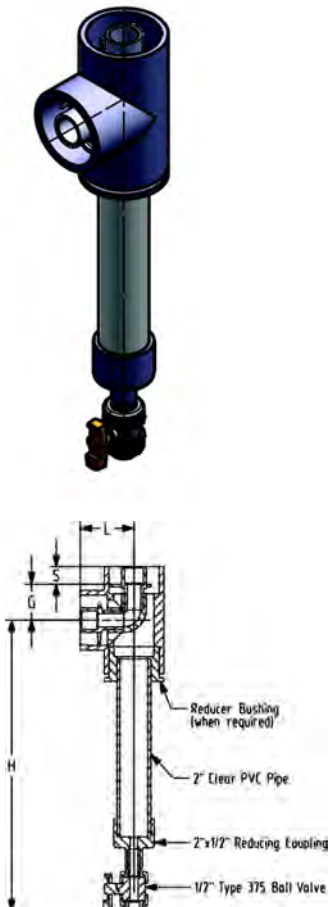
Size [inch]	Code	G [inch]	L [inch]	S [inch]	H [inch]
1/2 x 2	9802005020	1.90	2.78	0.88	19.66
3/4 x 3	9802007030	2.75	3.75	1.00	20.28
1 x 3	9802010030	2.56	3.75	1.79	20.28
1 1/2 x 4	9802015040	3.23	4.63	1.40	20.76
2 x 4	9802020040	3.13	4.63	1.50	20.76
3 x 6	9802030060	4.73	6.63	1.90	24.09
4 x 8	9802040080	6.50	8.70	2.20	24.47
6 x 10	9802060100	7.85	10.85	3.00	27.75



90° Low Point Drain/High Point Vent Tee CPVC 80 x CPVC 80

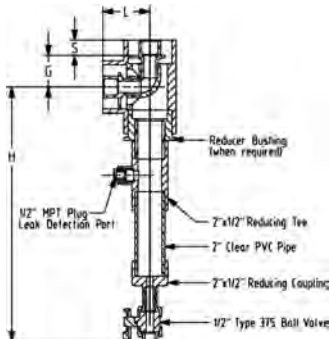
Visual Leak Detection

Size [inch]	Code	G [inch]	L [inch]	S [inch]	H [inch]
1/2 x 2	9902005020	1.90	2.78	0.88	21.44
3/4 x 3	9902007030	2.75	3.75	1.00	22.02
1 x 3	9902010030	2.56	3.75	1.19	22.02
1 1/2 x 4	9902015040	3.23	4.63	1.40	22.50
2 x 4	9902020040	3.13	4.63	1.50	22.50
3 x 6	9902030060	4.63	6.53	1.90	25.83
4 x 8	9902040080	6.43	8.63	2.20	26.21
6 x 10	9902060100	8.25	11.25	3.00	27.75



90° Low Point Drain/High Point Vent Tee PVC 80 x PVC 80

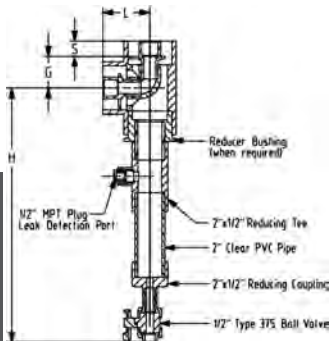
Visual Leak Detection and Leak Detection Port



Size [inch]	Code	G [inch]	L [inch]	S [inch]	H [inch]	
1/2 x 2	8803005020	1.90	2.78	0.88	19.66	
3/4 x 3	8803007030	2.75	3.75	1.00	20.28	
1 x 3	8803010030	2.56	3.75	1.79	20.28	
1 1/2 x 4	8803015040	3.23	4.63	1.40	20.76	
2 x 4	8803020040	3.13	4.63	1.50	20.76	
3 x 6	8803030060	4.73	6.63	1.90	24.09	
4 x 8	8803040080	6.50	8.70	2.20	24.47	
6 x 10	8803060100	7.85	10.85	3.00	27.75	

90° Low Point Drain/High Point Vent Tee CPVC 80 x PVC 80

Visual Leak Detection and Leak Detection Port



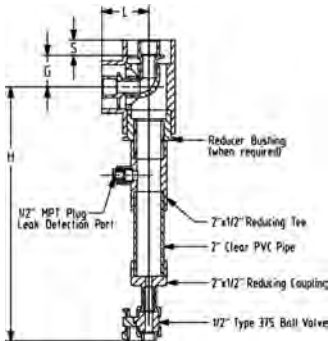
Size [inch]	Code	G [inch]	L [inch]	S [inch]	H [inch]	
1/2 x 2	9803005020	1.90	2.78	0.88	19.66	
3/4 x 3	9803007030	2.75	3.75	1.00	20.28	
1 x 3	9803010030	2.56	3.75	1.79	20.28	
1 1/2 x 4	9803015040	3.23	4.63	1.40	20.76	
2 x 4	9803020040	3.13	4.63	1.50	20.76	
3 x 6	9803030060	4.73	6.63	1.90	24.09	
4 x 8	9803040080	6.50	8.70	2.20	24.47	
6 x 10	9803060100	7.85	10.85	3.00	27.75	

90° Low Point Drain/High Point Vent Tee CPVC 80 x CPVC 80



Visual Leak Detection and Leak Detection Port

Size [inch]	Code	G [inch]	L [inch]	S [inch]	H [inch]
1/2 x 2	9903005020	1.90	2.78	0.88	21.44
3/4 x 3	9903007030	2.75	3.75	1.00	22.02
1 x 3	9903010030	2.56	3.75	1.19	22.02
1 1/2 x 4	9903015040	3.23	4.63	1.40	22.50
2 x 4	9903020040	3.13	4.63	1.50	22.50
3 x 6	9903030060	4.63	6.53	1.90	25.83
4 x 8	9903040080	6.43	8.63	2.20	26.21
6 x 10	9903060100	8.25	11.25	3.00	27.75

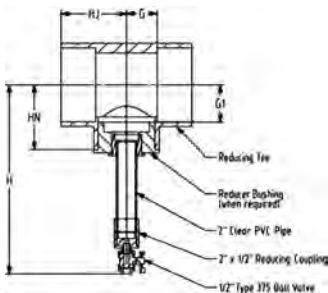


Low Point Drain/High Point Vent Tee, PVC



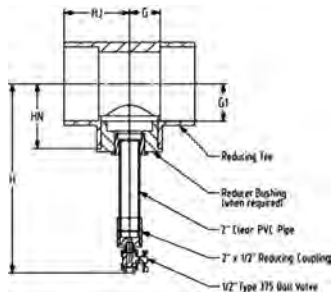
Visual Leak Detection

Secondary [inch]	Reducing Tee [inch]	Code	H [inch]	HJ [inch]	HN [inch]	G [inch]	G1 [inch]
2	2 x 2	8801375020	17.28	2.78	2.78	1.29	1.29
3	3 x 2	8801375030	17.90	3.21	3.40	1.31	1.87
4	4 x 2	8801375040	18.38	3.52	3.88	1.26	2.37
6	6 x 2	8801375060	21.71	6.58	7.21	3.50	5.65
8	8 x 2	8801375080	22.09	7.63	7.59	3.59	3.56
10	10 x 2	8801375100	23.63	9.69	9.13	4.69	13.31



Low Point Drain/High Point Vent Tee, CPVC

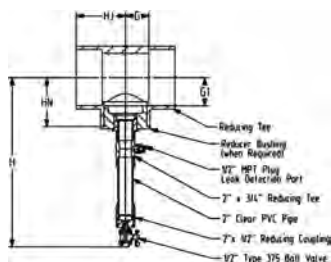
Visual Leak Detection



Secondary [inch]	Reducing Tee [inch]	Code	H [inch]	HJ [inch]	HN [inch]	G [inch]	G1 [inch]	
2	2 x 2	9801375020	17.32	2.82	2.82	1.32	1.32	
3	3 x 2	9801375030	17.90	3.21	3.40	1.31	1.87	
4	4 x 2	9801375040	18.38	3.52	3.88	1.26	2.37	
6	6 x 2	9801375060	21.71	6.58	7.21	3.56	5.65	
8	8 x 2	9801375080	22.09	7.63	7.59	3.59	3.56	
10	10 x 2	9801375100	23.63	9.69	9.13	4.69	13.31	

Low Point Drain/High Point Vent Tee, PVC

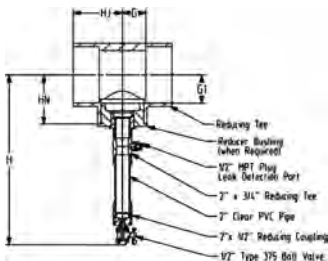
Visual Leak Detection and Leak Detection Port



Secondary [inch]	Reducing Tee [inch]	Code	H [inch]	HJ [inch]	HN [inch]	G [inch]	G1 [inch]	
2	2 x 2	8801375020P	19.66	2.78	2.78	1.29	1.29	
3	3 x 2	8801375030P	20.28	3.21	3.40	1.31	1.87	
4	4 x 2	8801375040P	20.76	3.52	3.88	1.26	2.37	
6	6 x 2	8801375060P	24.09	6.58	7.21	3.56	5.65	
8	8 x 2	8801375080P	24.47	7.63	7.59	3.59	3.56	
10	10 x 2	8801375100P	26.01	9.69	9.13	4.69	13.31	

Low Point Drain/High Point Vent Tee, CPVC

Visual Leak Detection and Leak Detection Port

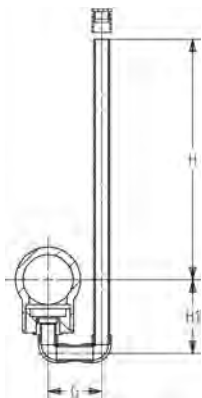


Secondary [inch]	Reducing Tee [inch]	Code	H [inch]	HJ [inch]	HN [inch]	G [inch]	G1 [inch]	
2	2 x 2	9801375020P	21.44	2.82	2.82	1.32	1.32	
3	3 x 2	9801375030P	22.02	3.21	3.40	1.31	1.87	
4	4 x 2	9801375040P	22.50	3.52	3.88	1.26	2.37	
6	6 x 2	9801375060P	25.83	6.58	7.21	3.56	5.65	
8	8 x 2	9801375080P	26.21	7.63	7.59	3.59	3.56	
10	10 x 2	9801375100P	27.75	9.69	9.13	4.69	13.31	

Sump

Low Point Leak Detection Sump PVC

Riser Pipe not included

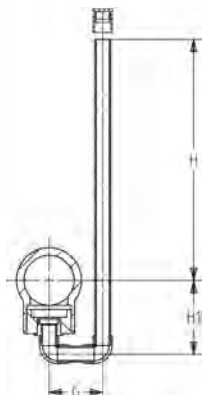


Size [inch]	Reducing Tee [inch]	Code	H [inch]	H1 [inch]	G [inch]	
2	2 x 2	8804806020	36	5.56	5.56	
3	3 x 2	8804806030	36	6.18	5.56	
4	4 x 2	8804806040	36	6.66	5.56	
6	6 x 2	8804806060	36	9.99	8.00	
8	8 x 2	8804806080	36	11.02	8.00	
10	10 x 2	8804806100	36	11.91	10.00	

Low Point leak Detection Sump CPVC

Riser Pipe not included

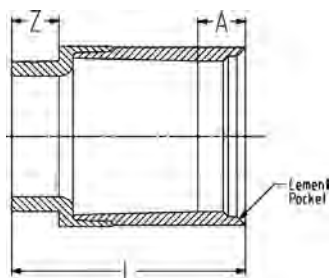
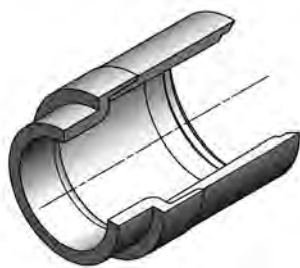
Size [inch]	Reducing Tee [inch]	Code	H [inch]	H1 [inch]	G [inch]	
2	2 x 2	9804806020	36	5.56	5.56	
3	3 x 2	9804806030	36	6.18	5.56	
4	4 x 2	9804806040	36	6.66	5.56	
6	6 x 2	9804806060	36	9.99	8.00	
8	8 x 2	9804806080	36	11.02	8.00	
10	10 x 2	9804806100	36	11.91	10.00	



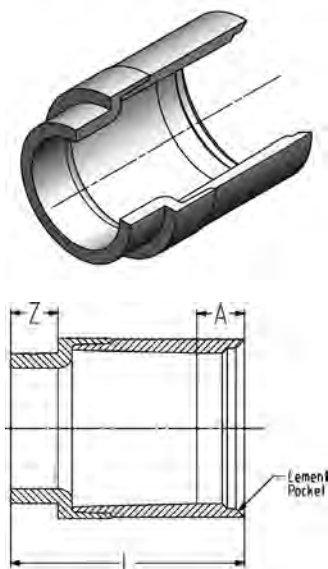
Closure Couplings

Closure Coupling, PVC

Size [inch]	Code	L [inch]	A [inch]	Z [inch]	
2	831020	3.71	0.75	0.75	
3	831030	4.74	0.75	0.75	
4	831040	5.46	1.00	1.00	
6	831060	9.41	1.50	1.50	
8	831080	10.70	1.75	1.75	
10	831100	12.45	2.00	2.00	



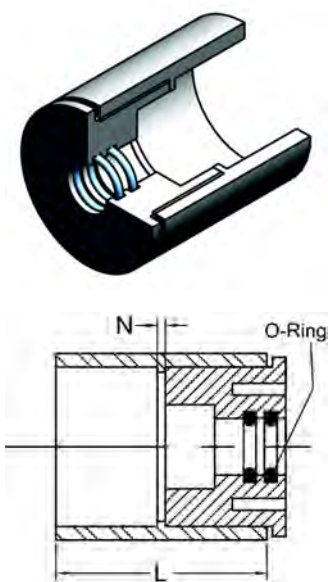
Closure Coupling, CPVC



Size [inch]	Code	L [inch]	A [inch]	Z [inch]	
2	931020	3.71	0.75	0.75	
3	931030	4.74	1.00	0.75	
4	931040	5.46	1.00	1.00	
6	931060	9.41	1.19	1.50	
8	931080	10.70	1.19	1.75	
10	931100	12.45	1.92	2.00	

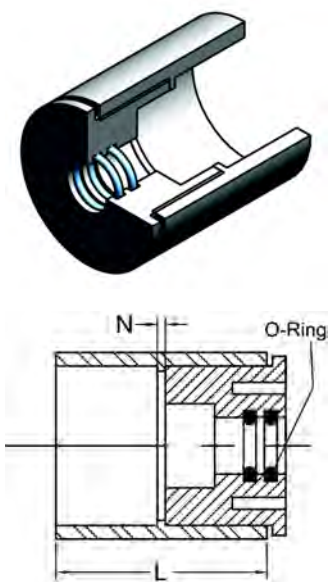
Terminations

Termination, PVC 80



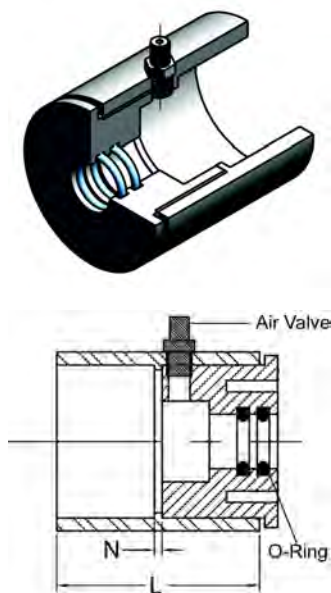
Size [inch]	FPM Code	EPDM Code	L [inch]	N [inch]	
½ x 2	825005020F	825005020E	3.14	0.12	
¾ x 3	825007030F	825007030E	4.04	0.25	
1 x 3	825010030F	825010030E	4.04	0.25	
1 ½ x 4	825015040F	825015040E	4.79	0.25	
2 x 4	825020040F	825020040E	4.79	0.25	
3 x 6	825030060F	825030060E	6.41	0.34	
4 x 8	825040080F	825040080E	8.40	0.34	
6 x 10	825060100F	825060100E	10.55	0.49	

Termination, CPVC 80



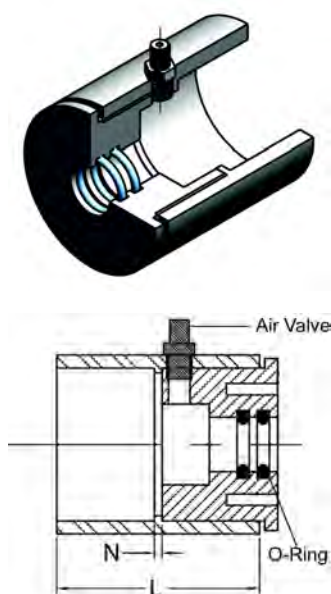
Size [inch]	FPM Code	EPDM Code	L [inch]	N [inch]	
½ x 2	925005020F	925005020E	3.14	0.12	
¾ x 3	925007030F	925007030E	4.04	0.25	
1 x 3	925010030F	925010030E	4.04	0.25	
1 ½ x 4	925015040F	925015040E	4.79	0.25	
2 x 4	925020040F	925020040E	4.79	0.25	
3 x 6	925030060F	925030060E	6.41	0.34	
4 x 8	925040080F	925040080E	8.40	0.34	
6 x 10	925060100F	925060100E	10.54	0.50	

Test Termination, PVC 80



Size [inch]	FPM Code	EPDM Code	L [inch]	N [inch]	
½ x 2	825005020FT	825005020ET	3.14	0.12	
¾ x 3	825007030FT	825007030ET	4.04	0.25	
1 x 3	825010030FT	825010030ET	4.04	0.25	
1 ½ x 4	825015040FT	825015040ET	4.79	0.25	
2 x 4	825020040FT	825020040ET	4.79	0.25	
3 x 6	825030060FT	825030060ET	6.41	0.34	
4 x 8	825040080FT	825040080ET	8.40	0.34	
6 x 10	825060100FT	825060100ET	10.55	0.49	

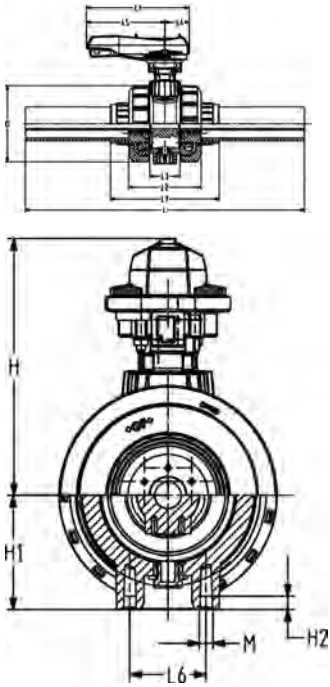
Test Termination, CPVC 80



Size [inch]	FPM Code	EPDM Code	L [inch]	N [inch]	
½ x 2	925005020FT	925005020ET	3.14	0.12	
¾ x 3	925007030FT	925007030ET	4.04	0.25	
1 x 3	925010030FT	925010030ET	4.04	0.25	
1 ½ x 4	925015040FT	925015040ET	4.79	0.25	
2 x 4	925020040FT	925020040ET	4.79	0.25	
3 x 6	925030060FT	925030060ET	6.41	0.34	
4 x 8	925040080FT	925040080ET	8.40	0.34	
6 x 10	925060100FT	925060100ET	10.55	0.49	

Valves

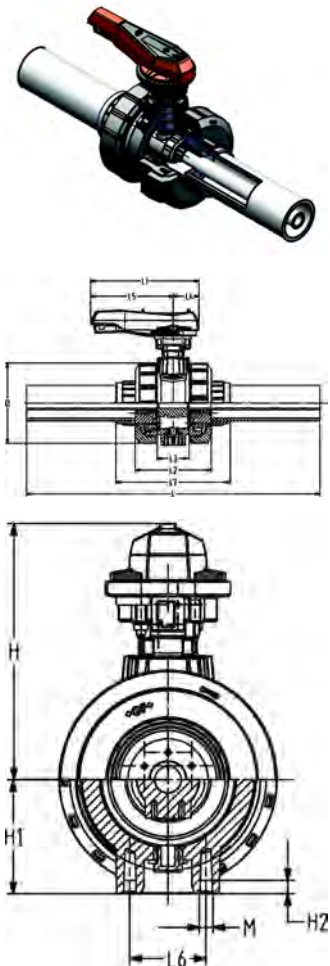
Type 546 Manual Ball Valve, Double Contained PVC x PVC Pressure Rated



PF 2 29 A29 009

Size [inch]	EPDM Code	FPM Code										
1/2 x 2	150 546 005	150 546 805										
3/4 x 3	150 546 007	150 546 807										
1 x 3	150 546 010	150 546 810										
1 1/2 x 4	150 546 015	150 546 815										
2 x 4	150 546 020	150 546 820										
D [inch]	L [inch]	L2 [inch]	L3 [inch]	L1 [inch]	L4 [inch]	L5 [inch]	L6 [inch]	M [inch]	H2 [inch]	H1 [inch]	H [inch]	
4.88	8.13	5.13	2.40	5.98	2.60	3.43	1.77	8	0.59	2.52	5.67	
7.87	11.22	7.47	2.76	10.59	2.52	8.11	2.76	8	0.59	4.13	9.25	
7.87	11.22	7.47	2.99	10.59	2.52	8.11	2.76	8	0.59	4.13	9.25	
9.37	14.20	9.20	3.70	12.60	2.52	10.05	4.72	12	0.87	4.84	9.63	
9.37	14.20	9.20	4.21	12.60	2.52	10.05	4.72	12	0.87	4.84	9.63	

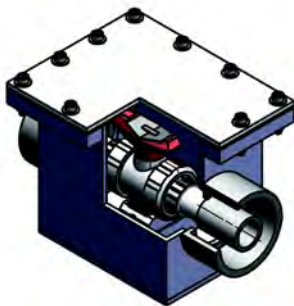
Type 546 Manual Ball Valve, Double Contained CPVC x PVC Pressure Rated



PF 2 29 A29 009

Pressure Rated

Size [inch]	EPDM Code	FPM Code											
½ x 2	150 546 905	150 546 705											
¾ x 3	150 546 907	150 546 707											
1 x 3	150 546 910	150 546 710											
1 ½ x 4	150 546 915	150 546 715											
2 x 4	150 546 920	150 546 720											
Size [inch]	D [inch]	L [inch]	L1 [inch]	L2 [inch]	L3 [inch]	L4 [inch]	L5 [inch]	L6 [inch]	H [inch]	H1 [inch]	H2 [inch]	M [inch]	
½ x 2	4.88	8.13	5.98	5.13	2.10	2.60	3.43	1.77	5.67	2.52	0.59	8.00	
¾ x 3	7.87	11.22	10.59	7.47	2.76	2.52	8.11	2.76	9.25	4.13	0.59	8.00	
1 x 3	7.87	11.22	10.59	7.47	2.99	2.52	8.11	2.76	9.25	4.13	0.59	8.00	
1 ½ x 4	9.37	14.20	12.60	9.20	3.70	2.52	10.05	4.72	9.63	4.84	0.87	12.00	
2 x 4	9.37	14.20	12.60	9.20	4.21	2.52	10.05	4.72	9.63	4.84	0.87	12.00	

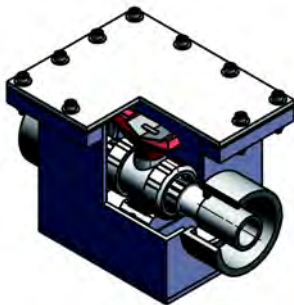
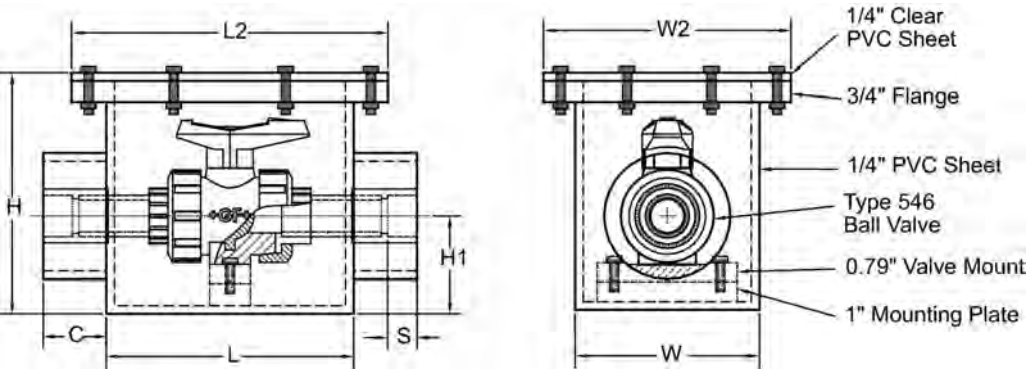


Manual Valve Box, PVC x PVC

Not Pressure Rated

Size [inch]	EPDM Code	FPM Code	
½ x 2	8546005020EVB	8546005020FVB	
¾ x 3	8546007030EVB	8546007030FVB	
1 x 3	8546010030EVB	8546010030FVB	
1 ½ x 4	8546015040EVB	8546015040FVB	
2 x 4	8546020040EVB	8546020040FVB	
3 x 6	8546030060EVB	8546030060FVB	
4 x 8	8546040080EVB	8546040080FVB	

Size [inch]	Weight [lb]	W [inch]	L [inch]	H [inch]	H1 [inch]	C [inch]	S [inch]	W2 [inch]	L2 [inch]	
½ x 2	7.20	6.00	8.00	8.00	3.10	1.57	0.88	8.00	10.00	
¾ x 3	7.45	6.00	8.00	8.00	2.02	2.02	1.00	8.00	10.00	
1 x 3	8.20	10.00	8.00	8.00	2.02	2.02	1.13	8.00	10.00	
1 ½ x 4	12.09	10.00	10.00	11.00	2.40	2.40	1.38	12.00	12.00	
2 x 4	28.34	10.00	10.00	11.00	2.40	2.40	1.50	12.00	12.00	
3 x 6	53.84	18.00	18.00	15.00	3.21	3.21	1.88	20.00	20.00	
4 x 8	83.02	22.00	22.00	17.00	4.20	4.20	2.25	24.00	24.00	

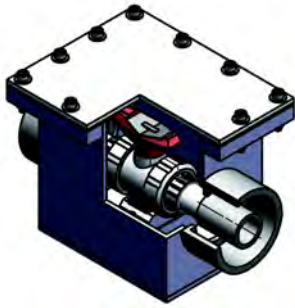


Manual Valve Box, CPVC x PVC

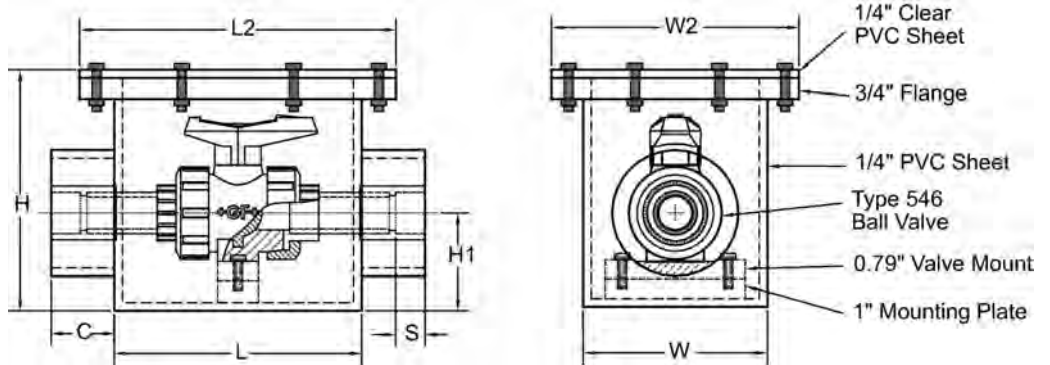
Not Pressure Rated

Size [inch]	EPDM Code	FPM Code	
½ x 2	9546005020EVB	9546005020FVB	
¾ x 3	9546007030EVB	9546007030FVB	
1 x 3	9546010030EVB	9546010030FVB	
1 ½ x 4	9546015040EVB	9546015040FVB	
2 x 4	9546020040EVB	9546020040FVB	
3 x 6	9546030060EVB	9546030060FVB	
4 x 8	9546040080EVB	9546040080FVB	

Size [inch]	Weight [lb]	W [inch]	L [inch]	H [inch]	H1 [inch]	C [inch]	S [inch]	W2 [inch]	L2 [inch]	
½ x 2	7.22	6.00	8.00	3.10	3.10	1.57	0.88	8.00	10	
¾ x 3	7.47	6.00	8.00	3.22	2.02	2.02	1.00	8.00	10	
1 x 3	8.27	6.00	8.00	3.46	2.02	2.02	1.13	8.00	10	

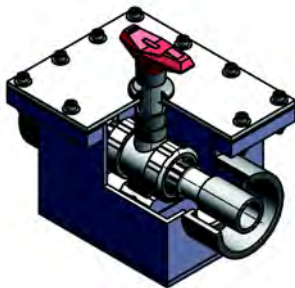


Size [inch]	Weight [lb]	W [inch]	L [inch]	H [inch]	H1 [inch]	C [inch]	S [inch]	W2 [inch]	L2 [inch]	
1 ½ x 4	12.32	10.00	10.00	4.05	2.40	2.40	1.38	12.00	12	
2 x 4	28.82	10.00	10.00	4.56	2.40	2.40	1.50	12.00	12	
3 x 6	55.38	18.00	18.00	6.17	3.21	3.21	1.88	20.00	20	
4 x 8	85.88	22.00	22.00	6.88	4.20	4.20	2.25	24.00	24	



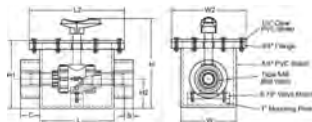
Manual Valve Box, External Handle PVC x PVC

Not Pressure Rated



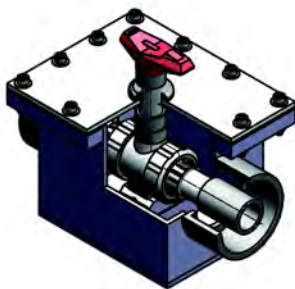
Size [inch]	EPDM Code	FPM Code	
½ x 2	8546005020EEH	8546005020FEH	
¾ x 3	8546007030EEH	8546007030FEH	
1 x 3	8546010030EEH	8546010030FEH	
1 ½ x 4	8546015040EEH	8546015040FEH	
2 x 4	8546020040EEH	8546020040FEH	

Size [inch]	Weight [lb]	W [inch]	L [inch]	H [inch]	H1 [inch]	H2 [inch]	C [inch]	S [inch]	W2 [inch]	L2 [inch]	
½ x 2	7.50	6.00	8.00	9.20	7.00	3.10	1.57	0.88	8.00	10.00	
¾ x 3	7.75	6.00	8.00	9.50	7.00	3.22	2.02	1.00	8.00	10.00	
1 x 3	8.50	6.00	8.00	9.50	7.00	3.46	2.02	1.13	8.00	10.00	
1 ½ x 4	12.49	8.00	10.00	12.80	10.00	4.05	2.40	1.38	10.00	12.00	
2 x 4	28.74	8.00	10.00	13.00	10.00	4.56	2.40	1.50	10.00	12.00	



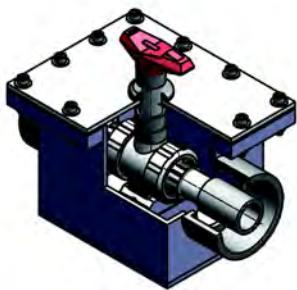
Manual Valve Box, External Handle CPVC x PVC

Not Pressure Rated

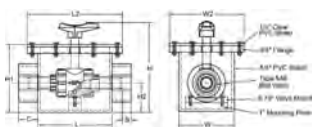


Size [inch]	EPDM Code	FPM Code	
½ x 2	9546005020EEH	9546005020FEH	
¾ x 3	9546007030EEH	9546007030FEH	
1 x 3	9546010030EEH	9546010030FEH	
1 ½ x 4	9546015040EEH	9546015040FEH	
2 x 4	9546020040EEH	9546020040FEH	

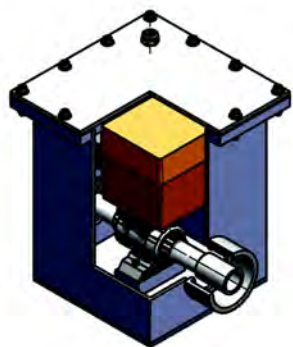
table continued next page



Size [inch]	Weight [lb]	W [inch]	L [inch]	H [inch]	H1 [inch]	H2 [inch]	C [inch]	S [inch]	W2 [inch]	L2 [inch]	
½ x 2	7.52	5.00	8.00	9.20	7.00	3.10	1.57	0.88	7.00	10.00	
¾ x 3	7.77	5.00	8.00	9.50	7.00	3.22	2.02	1.00	7.00	10.00	
1 x 3	8.57	5.00	8.00	9.50	7.00	3.46	2.02	1.13	7.00	10.00	
1 ½ x 4	12.72	8.00	10.00	12.80	10.00	4.05	2.40	1.38	10.00	12.00	
2 x 4	29.22	8.00	10.00	13.00	10.00	4.56	2.40	1.50	10.00	12.00	

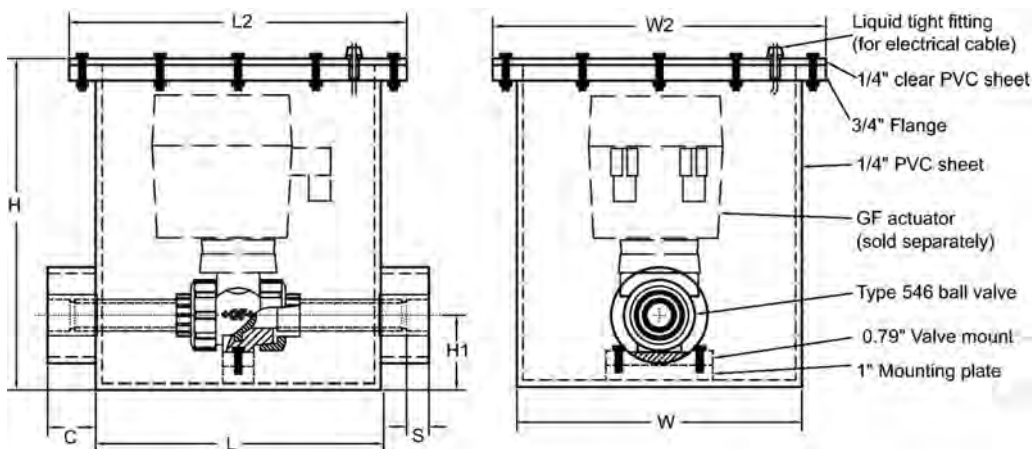


Actuated Valve Box, PVC x PVC



Size [inch]	EPDM Code	FPM Code	
½ x 2	8546005020EAV	8546005020FAV	
¾ x 3	8546007030EAV	8546007030FAV	
1 x 3	8546010030EAV	8546010030FAV	
1 ½ x 4	8546015040EAV	8546015040FAV	
2 x 4	8546020040EAV	8546020040FAV	
3 x 6	8546030060EAV	8546030060FAV	
4 x 8	8546040080EAV	8546040080FAV	

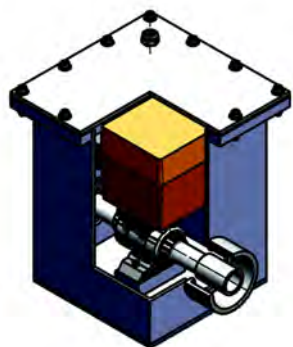
Size [inch]	Weight [lb]	W [inch]	L [inch]	H [inch]	H1 [inch]	C [inch]	S [inch]	W2 [inch]	L2 [inch]	
½ x 2	8.70	10.00	10.00	14.00	3.10	1.57	0.88	12.00	12.00	
¾ x 3	8.95	10.00	10.00	14.00	3.22	2.02	1.00	12.00	12.00	
1 x 3	10.20	10.00	10.00	14.00	3.46	2.02	1.13	12.00	12.00	
1 ½ x 4	14.34	10.00	10.00	16.00	4.05	2.40	1.38	12.00	12.00	
2 x 4	33.44	10.00	10.00	16.00	4.56	2.40	1.50	12.00	12.00	
3 x 6	61.34	13.00	15.00	24.00	6.17	3.21	1.88	15.00	17.00	
4 x 8	94.52	15.00	17.00	24.00	6.88	4.20	2.25	17.00	19.00	



Actuated Valve Box, CPVC x PVC

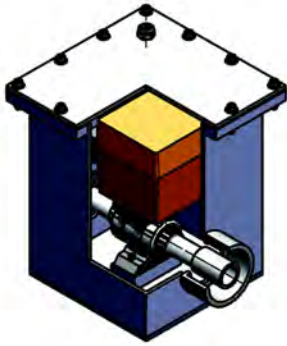
Not Pressure Rated

Includes 546 Ball Valve, customer to purchase actuator of choice separately, to be mounted onto valve

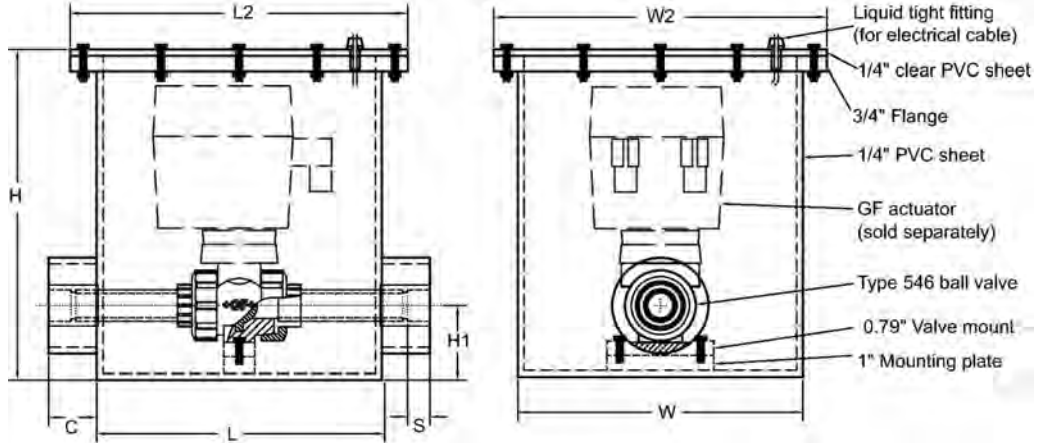


Size [inch]	EPDM Code	FPM Code	
½ x 2	9546005020EAV	9546005020FAV	
¾ x 3	9546007030EAV	9546007030FAV	
1 x 3	9546010030EAV	9546010030FAV	
1 ½ x 4	9546015040EAV	9546015040FAV	
2 x 4	9546020040EAV	9546020040FAV	
3 x 6	9546030060EAV	9546030060FAV	
4 x 8	9546040080EAV	9546040080FAV	

table continued next page

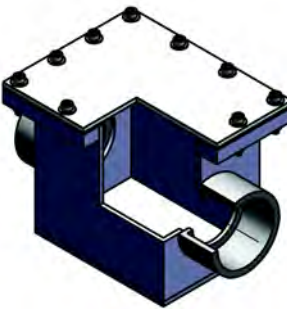


Size [inch]	Weight [lb]	W [inch]	L [inch]	H [inch]	H1 [inch]	C [inch]	S [inch]	W2 [inch]	L2 [inch]	
1/2 x 2	8.72	10.00	10.00	14.00	3.10	1.57	0.88	12.00	12.00	
3/4 x 3	8.97	10.00	10.00	14.00	3.22	2.02	1.00	12.00	12.00	
1 x 3	10.27	10.00	10.00	14.00	3.46	2.02	1.13	12.00	12.00	
1 1/2 x 4	14.57	10.00	10.00	16.00	4.05	2.40	1.38	12.00	12.00	
2 x 4	33.92	10.00	10.00	16.00	4.56	2.40	1.50	12.00	12.00	
3 x 6	62.88	13.00	15.00	24.00	6.17	3.21	1.88	15.00	17.00	
4 x 8	97.38	15.00	17.00	24.00	6.88	4.20	2.25	17.00	19.00	

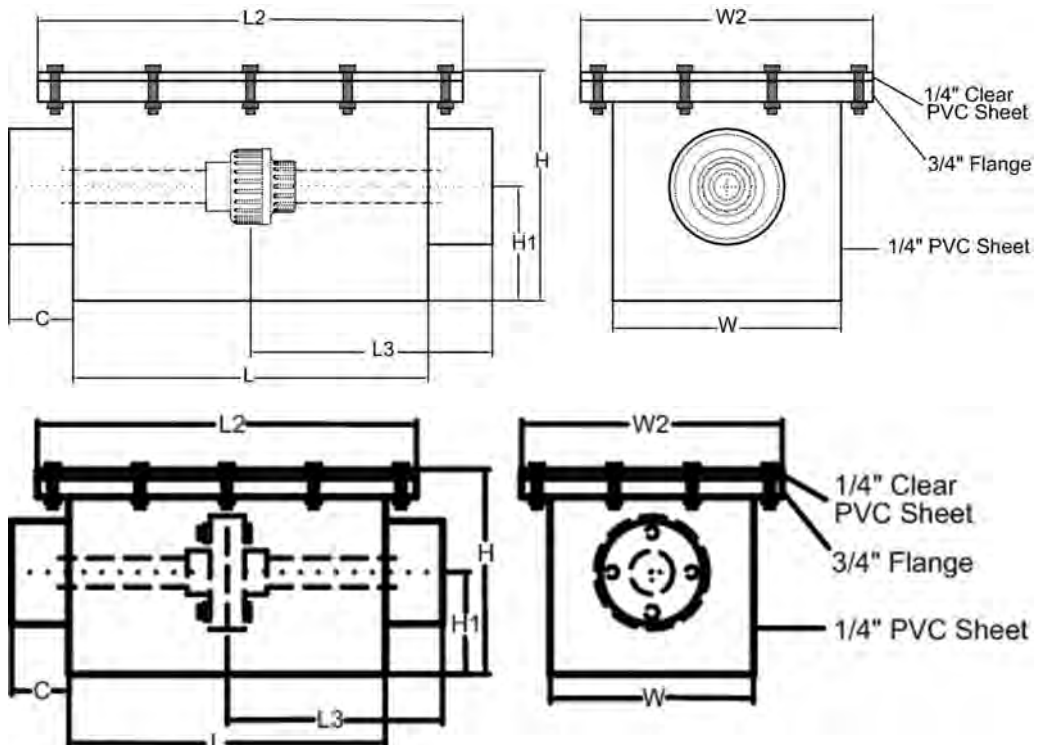


Flange/Union Box, PVC

Not Pressure Rated



Secondary Connection [inch]	Code	Weight [lb]	W [inch]	W2 [inch]	L [inch]	L2 [inch]	L3 [inch]	H [inch]	H1 [inch]	C [inch]	
2	8854020F	6.58	9	11.00	14.00	16.00	8.57	9.00	4.50	1.57	
3	8854030F	6.97	9	11.00	14.00	16.00	9.02	9.00	4.50	2.02	
4	8854040F	9.32	12	14.00	14.00	16.00	9.40	12.00	6.00	2.40	
6	8854060F	23.63	12	14.00	14.00	16.00	10.21	12.00	6.00	3.21	
8	8854080F	36.29	15	17.00	15.00	17.00	11.70	15.00	7.50	4.20	
10	8854100F	55.75	15	17.00	15.00	17.00	12.78	15.00	7.50	5.28	



IPS Weld-on Product Range

Cement



724™

Heavy bodied, medium setting, gray CPVC cement for all classes and schedules with interference fit through 12" diameter. May be used on PVC industrial piping systems for chemical applications. Approved for Corzan® Industrial Systems.

Gray

2 year shelf life

Corzan® is a registered trademark of The Lubrizol Corporation



PW-G/DWW/SW

200064140

WELD-ON 724 CPVC CEMENT GREY QUART (946mL)

Cleaner



P-70™ Primer

Premium industrial strength primer essential for proper softening and preparation of PVC and CPVC pipe and fitting surfaces. Specially recommended for use on Schedule 80 (PN 10 and higher) and large size pipe. Excellent for cold weather applications.

Clear

3 year shelf life



PW-G/DWW/SW

200064143

WELD-ON P70 CPVC PRIMER CLEAR QUART (946mL)

Repair & Fabrication - Back Welding of Closure Couplings



845

Two-component, high strength, reactive acrylic adhesive. For bonding and repairing most plastics (PVC, CPVC, ABS), metals, fiberglass, copper, concrete and other dissimilar materials. May be used in wet conditions.

Tan

1 year shelf life

12709

43 mL
in 50 mL
cartridge

12759

400 mL

200063388	WELD-ON 845 SML ADHESIVE CARTRIDGE	43ml
200064148	WELD-ON 845 ADHESIVE CARTRIDGE TAN	400ml



ACCESSORIES for 845 Cartridges

43mL in 50mL Cartridge

Manual Dispensing Gun
Mixing Tip

12471
11195

400mL Cartridge

Manual Dispensing Gun
Metal Frame Manual Dispensing Gun
Pneumatic Gun
Mixing Tip

12613
13302
12933
11651



200063387	845 Manual Disp.Gun Small 50mL Cartridge
200064145	845 Pneumatic Dispensing Gun 400ml cart
200064146	845 Manual Dispensing Gun 400ml cart
200064147	845 Mixing Tip for 400ml cartridge

Daubers



Cap Dauber: DH dauber fits 1/4 and 1/2 pint cans. DP daubers fit 1/2 pint and pint cans. DQ daubers fit quart cans. Available in 3/8", 1/2", 3/4" and 1 1/2".



Can-Mate Daubers: Adjustable plastic applicator with telescoping stem to fit all cans (except 1/4 pint). Available in 1/2", 3/4" and 1 1/4" dauber sizes.



5020: 4" swab for pipe diameters from 3" through 8"; fits standard quart can as well as MT-651 empty quart can.

200064151	Cap Dauber DQ 3/8"
200064152	1/2" CAP DAUBER DQ FOR PIPE 3/8" TO 1"
200064153	3/4" CAP DAUBER DQ FOR PIPE 3/8" TO 1 1/2"
200064154	1 1/2" CAP DAUBER DQ FOR PIPE 3/8" TO 3"

200064155	CAN-MATE DAUBER 1/2"
200064156	CAN-MATE DAUBER 3/4"
200064157	CAN-MATE DAUBER 1-1/4"

200064150	4" SWAB FOR PIPE 3" TO 8"
200064149	4" SWAB FOR PIPE 6" AND ABOVE

Spare Parts

Spare Parts Ball Valve 546

Spare parts ball valve type 546 Ball set

Model:

- Ball seals standard in PTFE
- Ball set consisting of: ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)



Size [inch]	DN [mm]	d [mm]	PVC-U EPDM Code	PF	SP	Weight [kg]	
3/8	10	16	161 486 375	2 31 546 998	0	0.016	
1/2	15	20	161 486 375	2 31 546 998	0	0.016	
3/4	20	25	161 486 376	2 31 546 998	0	0.025	
1	25	32	161 486 377	2 31 546 998	0	0.040	
1 1/4	32	40	161 486 378	2 31 546 998	1	0.079	
1 1/2	40	50	161 486 379	2 31 546 998	1	0.128	
2	50	63	161 486 380	2 31 546 998	1	0.249	
2 1/2	65	75	161 486 381	2 31 546 998	1	0.488	
3	80	90	161 486 382	2 31 546 998	1	0.769	
4	100	110	161 486 383	2 31 546 998	0	1.279	

PVC-U FPM Code	PF	SP	Weight [kg]	PVC-C EPDM Code	PF	SP	Weight [kg]	
161 486 385	2 31 546 998	0	0.016	163 481 375	2 32 541 998	0	0.017	
161 486 385	2 31 546 998	0	0.016	163 481 375	2 32 541 998	0	0.017	
161 486 386	2 31 546 998	0	0.025	163 481 376	2 32 541 998	0	0.026	
161 486 387	2 31 546 998	0	0.042	163 481 377	2 32 541 998	0	0.045	
161 486 388	2 31 546 998	1	0.078	163 481 378	2 32 541 998	1	0.085	
161 486 389	2 31 546 998	1	0.130	163 481 379	2 32 541 998	1	0.135	
161 486 390	2 31 546 998	1	0.250	163 481 380	2 32 541 998	1	0.265	
161 486 391	2 31 546 998	1	0.493	163 481 381	2 31 546 998	1	0.533	
161 486 392	2 31 546 998	1	0.777	163 481 382	2 31 546 998	1	0.841	
161 486 393	2 31 546 998	1	1.288	163 481 383	2 31 546 998	0	1.399	

PVC-C FPM Code	PF	SP	Weight [kg]	ABS EPDM Code	PF	SP	Weight [kg]	
163 481 385	2 32 541 998	0	0.017	169 480 900	2 33 542 998	0	0.013	
163 481 385	2 32 541 998	0	0.017	169 480 900	2 33 542 998	0	0.013	
163 481 386	2 32 541 998	0	0.026	169 480 901	2 33 542 998	0	0.020	
163 481 387	2 32 541 998	0	0.045	169 480 902	2 33 542 998	0	0.035	
163 481 388	2 32 541 998	1	0.088	169 480 903	2 33 542 998	1	0.065	
163 481 389	2 32 541 998	1	0.138	169 480 904	2 33 542 998	1	0.100	
163 481 390	2 32 541 998	1	0.268	169 480 905	2 33 542 998	1	0.195	
163 481 391	2 31 546 998	1	0.538	169 480 906	2 31 546 998	1	0.388	
163 481 392	2 31 546 998	1	0.849	169 480 907	2 31 546 998	1	0.610	
163 481 393	2 31 546 998	1	1.494	169 480 908	2 31 546 998	0	1.014	

PP-H EPDM Code	PF	SP	Weight [kg]	PP-H FPM Code	PF	SP	Weight [kg]	
167 484 125	2 34 539 998	0	0.012	167 484 135	2 34 539 998	0	0.012	
167 484 125	2 34 539 998	0	0.012	167 484 135	2 34 539 998	0	0.012	
167 484 126	2 34 539 998	0	0.020	167 484 136	2 34 539 998	1	0.020	
167 484 127	2 34 539 998	1	0.030	167 484 137	2 34 539 998	1	0.039	
167 484 128	2 34 539 998	1	0.060	167 484 138	2 34 539 998	1	0.060	
167 484 129	2 34 539 998	1	0.090	167 484 139	2 34 539 998	1	0.096	
167 484 130	2 34 539 998	1	0.184	167 484 140	2 34 539 998	1	0.182	
167 484 131	2 31 546 998	1	0.340	167 484 141	2 31 546 998	1	0.345	
167 484 132	2 31 546 998	1	0.587	167 484 142	2 31 546 998	1	0.539	
167 484 133	2 31 546 998	0	0.884	167 484 143	2 31 546 998	1	1.001	

table continued next page

PVDF FPM Code	PF	SP	Weight [kg]	
175 483 275	2 35 540 998	0	0.020	
175 483 275	2 35 540 998	0	0.020	
175 483 276	2 35 540 998	0	0.030	
175 483 277	2 35 540 998	0	0.055	
175 483 278	2 35 540 998	1	0.105	
175 483 279	2 35 540 998	1	0.160	
175 483 280	2 35 540 998	1	0.310	
175 483 281	2 35 540 998	1	0.675	
175 483 282	2 35 540 998	1	1.055	
175 483 283	2 35 540 998	1	1.747	



Spare parts ball valve type 546

Face seal

Model:

- Face seal no. 10



Size [inch]	DN [mm]	d [mm]	EPDM Code	PF	SP	Weight [kg]	
3/8	10	16	748 410 059	2 31 800 999	0	0.002	
1/2	15	20	748 410 059	2 31 800 999	0	0.002	
3/4	20	25	748 410 106	2 31 800 999	0	0.002	
1	25	32	748 410 151	2 31 800 999	0	0.001	
1 1/4	32	40	748 410 062	2 31 800 999	0	0.002	
1 1/2	40	50	748 410 003	2 30 162 006	100	0.004	
2	50	63	748 410 231	2 31 800 999	1	0.005	
2 1/2	65	75	748 410 119	2 31 161 999	0	0.005	
3	80	90	748 410 023	2 31 800 999	0	0.010	
4	100	110	748 410 254	2 31 800 999	0	0.020	

FPM Code	PF	SP	Weight [kg]	
749 410 059	2 31 800 999	0	0.001	
749 410 059	2 31 800 999	0	0.001	
749 410 106	2 31 800 999	0	0.001	
749 410 151	2 31 800 999	0	0.002	
749 410 062	2 31 800 999	0	0.002	
749 410 003	2 30 162 008	0	0.001	
749 410 231	2 31 800 999	0	0.008	
749 410 119	2 31 161 999	0	0.010	
749 410 023	2 31 800 999	0	0.012	
749 410 254	2 31 800 999	0	0.030	



DN10/15 - 50



DN10/15 - 50



Spare parts ball valve type 546 Lever

d [mm]	DN [mm]	Size [inch]	Standard lever red Code	PF	SP	Weight [kg]	
16	10	3/8	167 484 088	2 31 798 999	0	0.012	
20	15	1/2	167 484 088	2 31 798 999	0	0.012	
25	20	3/4	167 484 089	2 31 798 999	0	0.022	
32	25	1	167 484 090	2 31 798 999	0	0.022	
40	32	1 1/4	167 484 091	2 31 798 999	0	0.042	
50	40	1 1/2	167 484 092	2 31 798 999	0	0.042	
63	50	2	167 484 093	2 31 798 999	0	0.064	
75	65	2 1/2	167 484 094	2 31 798 999	0	0.250	
90	80	3	167 484 095	2 31 798 999	1	0.250	
110	100	4	167 484 096	2 31 798 999	1	0.298	

d [mm]	Standard lever black Code	PF	SP	Weight [kg]	Multifunctional lever Code	PF	SP	Weight [kg]	
16	167 484 076	2 31 798 999	0	0.012	167 484 100	2 31 798 999	0	0.026	
20	167 484 076	2 31 798 999	0	0.012	167 484 100	2 31 798 999	0	0.026	
25	167 484 077	2 31 798 999	0	0.022	167 484 101	2 31 798 999	0	0.045	
32	167 484 078	2 31 798 999	0	0.022	167 484 102	2 31 798 999	0	0.047	
40	167 484 079	2 31 798 999	0	0.042	167 484 103	2 31 798 999	0	0.091	
50	167 484 080	2 31 798 999	0	0.042	167 484 104	2 31 798 999	0	0.080	
63	167 484 081	2 31 798 999	0	0.059	167 484 105	2 31 798 999	0	0.124	
75	167 484 082	2 31 798 999	0	0.250	161 486 689	2 31 567 998	1	0.468	
90	167 484 083	2 31 798 999	0	0.250	161 486 690	2 31 567 998	1	0.467	
110	167 484 084	2 31 798 999	0	0.298	161 486 691	2 31 567 998	1	0.543	



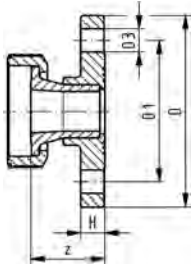
PF 2 31 800 999

Spare parts ball valve type 546 Seal set

Model:

- Seal set consisting of: backing-, body-, face- and stem seal (8-11)

DN [mm]	Size [inch]	d [mm]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
10	3/8	16	161 486 400	1	0.010	161 486 410	1	0.006	
15	1/2	20	161 486 400	1	0.010	161 486 410	1	0.006	
20	3/4	25	161 486 401	1	0.001	161 486 411	1	0.015	
25	1	32	161 486 402	1	0.003	161 486 412	1	0.008	
32	1 1/4	40	161 486 403	1	0.008	161 486 413	1	0.010	
40	1 1/2	50	161 486 404	1	0.012	161 486 414	1	0.023	
50	2	63	161 486 405	1	0.016	161 486 415	1	0.031	
65	2 1/2	75	161 486 406	1	0.018	161 486 416	1	0.051	
80	3	90	161 486 407	1	0.024	161 486 417	1	0.034	
100	4	110	161 486 408	0	0.039	161 486 418	1	0.058	



PF 2 31 546 999

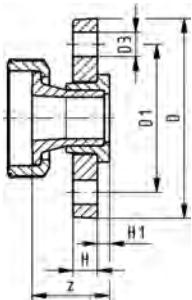
Valve end 546 PVC-U (G60) Assembly with fixed flange PVC-U metric

Model:

- Joint made with special adhesive Tangit for PVC-U
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

- Combined jointing face: flat and serrated

d [mm]	DN [mm]	PN [bar]	Code	SP	Weight [kg]	D [mm]	D1 [mm]	D3 [mm]	H [mm]	z [mm]	
20	15	16	161 486 360	0	0.131	95	65	14	12	37	
25	20	16	161 486 361	0	0.175	105	75	14	13	42	
32	25	16	161 486 362	1	0.254	115	85	14	15	45	
40	32	16	161 486 363	0	0.417	140	100	18	17	48	
50	40	16	161 486 364	1	0.548	150	110	18	18	56	
63	50	16	161 486 365	1	0.862	165	125	18	20	65	



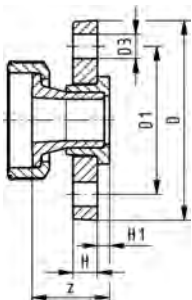
PF 2 31 546 999

Valve end 546 PVC-U (G70) Assembly with backing flange PVC-U metric

Model:

- Joint made with special adhesive Tangit for PVC-U
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

d [mm]	DN [mm]	PN [bar]	Code	SP	Weight [kg]	D [mm]	D1 [mm]	D3 [mm]	H [mm]	H1 [mm]	z [mm]	
20	15	16	161 486 265	0	0.110	95	65	14	11	6	37	
25	20	16	161 486 266	0	0.155	105	75	14	12	7	42	
32	25	16	161 486 267	0	0.230	115	85	14	14	7	45	
40	32	16	161 486 268	0	0.360	140	100	18	15	8	48	
50	40	16	161 486 269	0	0.500	150	110	18	16	8	56	
63	50	16	161 486 270	0	0.770	165	125	18	18	9	65	
75	65	10	161 486 271	0	1.429	185	145	18	19	10	77	
90	80	10	161 486 272	0	2.109	200	160	18	20	11	85	
110	100	10	161 486 273	1	3.067	220	180	18	22	12	93	



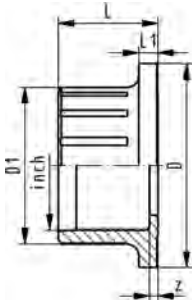
PF 2 31 546 999

Valve end 546 PVC-U (G71) Assembly with backing flange PVC-U Inch ANSI

Model:

- Joint made with special adhesive Tangit for PVC-U
- Connecting dimensions: ANSI/ASME B 16.5, ASTM D 4024, BS 1560 (bolt circle 150 lbs)

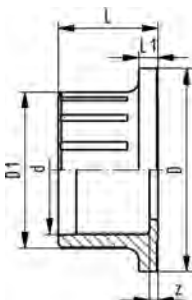
Size [inch]	d [mm]	PN [bar]	Code	SP	Weight [kg]	D [mm]	D1 [mm]	D3 [mm]	H [mm]	H1 [mm]	z [mm]	
½	20	16	161 486 275	0	0.110	95	60	14	11	6	37	
¾	25	16	161 486 276	0	0.150	105	70	14	12	7	42	
1	32	16	161 486 277	1	0.220	115	79	14	14	7	45	
1 ¼	40	16	161 486 278	0	0.375	140	89	18	15	8	48	
1 ½	50	16	161 486 279	0	0.495	150	98	18	16	8	56	
2	63	16	161 486 280	0	0.760	165	121	18	18	9	65	
2 ½	75	10	161 486 281	0	1.429	185	140	19	19	10	77	
3	90	10	161 486 282	1	3.136	200	152	19	20	11	85	
4	110	10	161 486 283	1	4.214	220	190	19	22	12	93	



PF 2 31 546 999

Valve end 546 and 543 PVC-U (G04) With solvent cement socket Inch BS

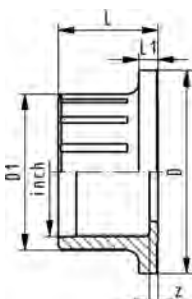
Size [inch]	d [mm]	PN [bar]	Code	SP	Weight [kg]	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]	
3/8	16	16	161 490 734	0	0.009	38	23	18	4	2	
1/2	20	16	161 490 735	1	0.010	38	27	20	4	2	
3/4	25	16	161 490 736	0	0.013	44	33	23	5	2	
1	32	16	161 490 737	1	0.021	53	41	26	5	2	
1 1/4	40	16	161 490 738	0	0.036	65	51	31	5	2	
1 1/2	50	16	161 490 739	0	0.071	77	62	34	6	4	
2	63	16	161 490 740	1	0.135	99	77	41	7	5	
	75	16	161 490 673	1	0.224	125	92	49	9	4	
3	90	16	161 490 742	1	0.393	150	110	57	10	6	
4	110	16	161 490 743	0	0.577	180	134	69	11	5	



PF 2 31 546 999

Valve end 546 and 543 PVC-U (G01) With solvent cement socket metric

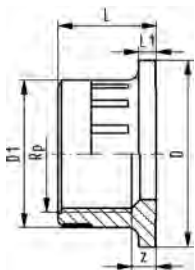
d [mm]	PN [bar]	Code	SP	Weight [kg]	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]	
16	16	161 490 666	1	0.011	38	23	18	4	4	
20	16	161 490 667	1	0.009	38	27	20	4	4	
25	16	161 490 668	1	0.012	44	33	23	5	4	
32	16	161 490 669	1	0.024	53	41	26	5	4	
40	16	161 490 670	1	0.042	65	51	31	5	5	
50	16	161 490 671	1	0.065	77	62	34	6	3	
63	16	161 490 672	1	0.118	99	77	41	7	3	
75	16	161 490 673	1	0.224	125	92	49	9	4	
90	16	161 490 674	1	0.377	150	110	57	10	5	
110	16	161 490 675	0	0.639	180	134	69	11	5	



PF 2 31 546 999

Valve end 546 and 543 PVC-U (G03) With solvent cement socket Inch ASTM

Size [inch]	d [mm]	PN [bar]	Code	SP	Weight [kg]	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]	
3/8	16	16	161 490 712	1	0.012	38	24	25	4	6	
1/2	20	16	161 490 713	1	0.014	38	30	25	4	2	
3/4	25	16	161 490 714	1	0.020	44	35	28	5	3	
1	32	16	161 490 715	1	0.031	53	43	31	5	3	
1 1/4	40	16	161 490 716	0	0.046	65	53	34	5	3	
1 1/2	50	16	161 490 717	1	0.066	77	60	38	6	3	
2	63	16	161 490 718	1	0.112	99	73	41	7	3	
2 1/2	75	16	161 490 719	1	0.241	125	92	49	9	4	
3	90	16	161 490 720	1	0.394	150	110	57	10	9	
4	110	16	161 490 721	0	0.582	180	134	69	11	11	



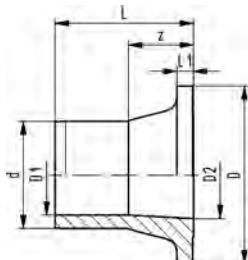
PF 2 31 546 999

Valve end 546 and 543 PVC-U (G07) With threaded socket Rp reinforced

Model:

- Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- Do not use thread sealing pastes that are harmful to PVC-U

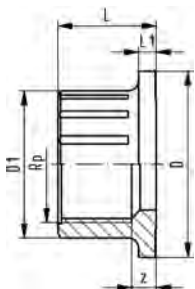
Rp [inch]	PN [bar]	Code	SP	Weight [kg]	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]	
3/8	16	161 490 825	1	0.013	38	24	20	4	7	
1/2	16	161 490 826	1	0.016	38	28	22	4	6	
3/4	16	161 490 827	1	0.023	44	34	25	5	7	
1	16	161 490 828	1	0.036	53	42	28	5	7	
1 1/4	16	161 490 829	0	0.058	65	52	30	5	7	
1 1/2	16	161 490 830	1	0.084	77	63	32	6	9	
2	16	161 490 831	0	0.166	99	78	38	7	10	



PF 2 31 546 999

Valve end 546 and 543 PVC-U (G05) With solvent cement spigot metric

d [mm]	PN [bar]	Code	SP	Weight [kg]	D [mm]	D1 [mm]	D2 [mm]	L [mm]	L1 [mm]	z [mm]	
16	16	161 490 701	1	0.011	38	10	16	29	4	15	
20	16	161 490 702	1	0.015	38	14	16	34	4	18	
25	16	161 490 703	1	0.021	44	19	20	39	5	20	
32	16	161 490 704	1	0.031	53	24	26	42	5	20	
40	16	161 490 705	0	0.050	65	31	33	45	5	19	
50	16	161 490 706	1	0.082	77	39	41	53	6	22	
63	16	161 490 707	0	0.161	99	49	51	62	7	24	
75	16	161 490 708	0	0.302	125	58	65	74	9	30	
90	16	161 490 709	0	0.467	150	70	90	80	10	28	
110	16	161 490 710	0	0.747	180	86	100	88	11	27	



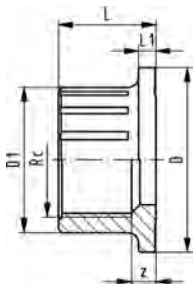
PF 2 31 546 999

Valve end 546 and 543 PVC-U (G06) With threaded socket Rp

Model:

- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U

Rp [inch]	PN [bar]	Code	SP	Weight [kg]	z [mm]	D1 [mm]	D [mm]	L [mm]	L1 [mm]	
3/8	10	161 490 690	0	0.011	7	24	38	20	4	
1/2	10	161 490 691	1	0.013	6	28	38	22	4	
3/4	10	161 490 692	1	0.019	7	34	44	25	5	
1	10	161 490 693	1	0.031	7	42	53	28	5	
1 1/4	10	161 490 694	0	0.047	7	52	65	30	5	
1 1/2	10	161 490 695	1	0.074	9	63	77	32	6	
2	10	161 490 696	1	0.129	10	78	99	38	7	
2 1/2	10	161 490 697	0	0.255	18	58	125	49	9	
3	10	161 490 698	0	0.436	23	110	150	57	10	
4	10	161 490 699	0	0.645	29	134	180	69	11	



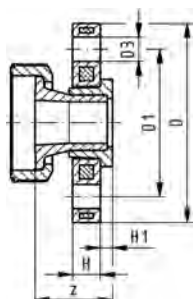
PF 2 31 546 999

Valve end 546 and 543 PVC-U (G08) With threaded socket Rc

Model:

- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U

PN [bar]	Rc [inch]	Code	SP	Weight [kg]	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]	
10	½	161 490 755	0	0.013	38	28	22	4	5	
10	¾	161 490 756	0	0.019	44	34	25	5	7	
10	1	161 490 757	1	0.041	53	42	28	5	7	
10	1 ¼	161 490 758	0	0.047	65	52	30	5	6	
10	1 ½	161 490 759	0	0.081	77	63	32	6	8	
10	2	161 490 760	1	0.145	99	78	38	7	9	
10	2 ½	161 490 761	0	0.261	125	58	49	9	18	
10	3	161 490 762	0	0.444	150	110	57	10	23	
10	4	161 490 763	0	0.682	180	134	69	11	29	



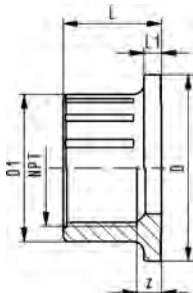
PF 2 31 546 999

Valve end 546 PVC-U (G73) Assembly with backing flange PP-st inch

Model:

- Joint made with special adhesive Tangit for PVC-U
- Connecting dimensions: ANSI/ASME B 16.5, ASTM D 4024, BS 1560 (bolt circle 150 lbs)

Size [inch]	DN [mm]	PN [bar]	Code	SP	Weight [kg]	D [mm]	D1 [mm]	D3 [mm]	H [mm]	H1 [mm]	z [mm]	
½	15	16	161 486 425	0	0.250	95	60	16	12	6	37	
¾	20	16	161 486 426	0	0.310	105	70	16	12	7	42	
1	25	16	161 486 427	0	0.520	115	79	16	16	7	45	
1 ¼	32	16	161 486 428	0	0.835	140	89	16	16	8	48	
1 ½	40	16	161 486 429	0	1.110	150	98	16	18	8	56	
2	50	16	161 486 430	0	1.385	165	121	19	18	9	65	
2 ½	65	16	161 486 431	1	2.319	185	140	19	18	10	77	
3	80	16	161 486 432	1	2.905	200	152	19	20	11	85	
4	100	16	161 486 433	1	4.079	229	190	19	20	12	93	



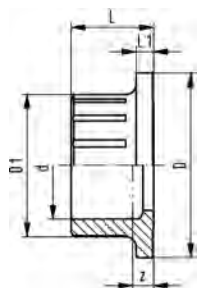
PF 2 31 546 999

Valve end 546 and 543 PVC-U (G09) With threaded socket NPT

Model:

- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U

NPT [inch]	PN [bar]	Code	SP	Weight [kg]	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]	
¾	10	161 490 723	0	0.014	38	26	21	4	7	
½	10	161 490 724	1	0.017	38	33	21	4	4	
¾	10	161 490 725	1	0.020	44	39	23	5	5	
1	10	161 490 726	1	0.038	53	47	28	5	6	
1 ¼	10	161 490 727	0	0.064	65	57	31	5	7	
1 ½	10	161 490 728	1	0.087	77	65	34	6	11	
2	10	161 490 729	1	0.146	99	77	41	7	17	
2 ½	10	161 490 730	0	0.287	125	58	49	9	15	
3	10	161 490 731	0	0.451	150	110	57	10	21	
4	10	161 490 732	0	0.692	180	134	69	11	31	



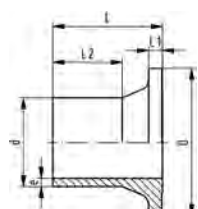
PF 2 34 539 999

Valve end 546 and 543 PE 100 (G40) With fusion socket metric

Model:

- Material: PE100

d [mm]	PN [bar]	Code	SP	Weight [kg]	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]	
16	16	193 480 175	0	0.007	38	23	19	4	5	
20	16	193 480 176	0	0.007	38	27	20	4	5	
25	16	193 480 177	0	0.012	44	33	22	5	6	
32	16	193 480 178	0	0.017	53	41	24	5	6	
40	16	193 480 179	0	0.026	65	51	26	5	7	
50	16	193 480 180	0	0.042	77	62	29	6	8	
63	16	193 480 181	0	0.075	99	77	34	7	8	



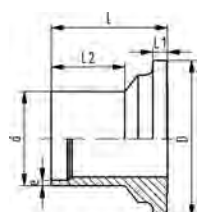
PF 2 34 539 999

Valve end 546 and 543 PE 100 (G41) With butt fusion spigot IR-Plus® SDR11 metric

Model:

- Material: PE100

d [mm]	FM	PN [bar]	Code	SP	Weight [kg]	D [mm]	e [mm]	L [mm]	L1 [mm]	L2 [mm]	
20	IR	16	193 480 102	0	0.008	38	1,9	37	4	25	
25	IR	16	193 480 103	0	0.013	44	2,3	39	5	25	
32	IR	16	193 480 104	0	0.019	53	2,9	40	5	25	
40	IR	16	193 480 105	0	0.030	65	3,7	43	5	25	
50	IR	16	193 480 106	0	0.054	77	4,6	51	6	25	
63	IR	16	193 480 107	0	0.096	99	5,8	60	7	28	



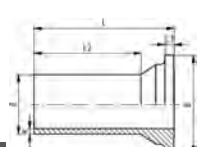
PF 2 34 539 999

Valve end 546 and 543 PE 100 (G42) With butt fusion spigot IR-Plus® SDR17,6 metric

Model:

- Material: PE100

d [mm]	FM	PN [bar]	Code	SP	Weight [kg]	D [mm]	e [mm]	L [mm]	L1 [mm]	L2 [mm]	
40	IR	10	193 480 086	0	0.030	65	2,3	43	5	25	
50	IR	10	193 480 087	0	0.053	77	2,9	51	6	25	
63	IR	10	193 480 088	0	0.096	99	3,6	60	7	28	



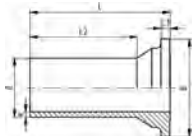
Valve end 546 and 543 PE 100 (G43) With butt fusion spigot long SDR11 metric

Model:

- Material: PE100

d [mm]	PN [bar]	Code	SP	Weight [kg]	D [mm]	e [mm]	L [mm]	L1 [mm]	L2 [mm]	
20	16	193 480 152	0	0.013	38	2,25	69	4	53	
25	16	193 480 153	0	0.023	44	2,3	76	5	58	
32	16	193 480 154	0	0.032	53	2,9	76	5	58	
40	16	193 480 155	0	0.054	65	3,7	82	5	61	
50	16	193 480 156	0	0.086	77	4,6	91	6	63	

table continued next page



PF 2 34 539 999

d [mm]	PN [bar]	Code	SP	Weight [kg]	D [mm]	e [mm]	L [mm]	L1 [mm]	L2 [mm]	
63	16	193 480 157	0	0.165	99	5,8	110	7	77	
75	16	193 480 158	1	0.280	125	6,8	125	9	89	
90	16	193 480 159	1	0.447	150	8,2	140	10	103	
110	16	193 480 160	1	0.731	180	10,0	160	11	117	

Valve end blank 546 and 543 PVC-U (G80)

Model:

- Flat sealing faces



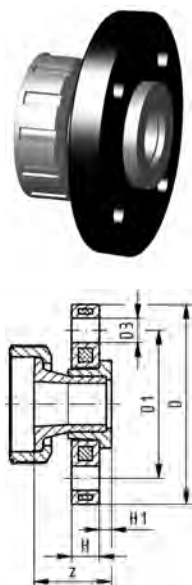
PF 2 31 546 999

d [mm]	DN [mm]	Size [inch]	PN [bar]	Code	SP	Weight [kg]	D [mm]	D1 [mm]	L [mm]	L1 [mm]	
20	15	½	16	161 490 837	0	0.009	38	23	8	4	
25	20	¾	16	161 490 838	1	0.014	44	33	10	5	
32	25	1	16	161 490 839	0	0.021	53	41	11	5	
40	32	1 ¼	16	161 490 840	0	0.034	65	51	11	5	
50	40	1 ½	16	161 490 841	1	0.057	77	62	14	6	
63	50	2	16	161 490 842	0	0.113	99	77	17	7	

Valve end 546 PVC-U (G72) Assembly with backing flange PP-st metric

Model:

- Joint made with special adhesive Tangit for PVC-U
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504



PF 2 31 546 999

d [mm]	DN [mm]	PN [bar]	Code	SP	Weight [kg]	D [mm]	D1 [mm]	D3 [mm]	H [mm]	H1 [mm]	z [mm]	
20	15	16	161 486 285	1	0.259	95	65	14	12	6	37	
25	20	16	161 486 286	0	0.325	105	75	14	12	7	42	
32	25	16	161 486 287	0	0.530	115	85	14	16	7	45	
40	32	16	161 486 288	1	0.786	140	100	18	16	8	48	
50	40	16	161 486 289	0	1.070	150	110	18	18	8	56	
63	50	16	161 486 290	1	1.529	165	125	18	18	9	65	
75	65	16	161 486 291	1	2.319	185	145	18	18	10	77	
90	80	16	161 486 292	0	2.905	200	160	18	20	11	85	
110	100	16	161 486 293	0	4.079	220	180	18	20	12	93	



Spare parts ball valve type 346 Central part

Model:

- Ball seals standard in PTFE
- Central part consisting of: lever red (12), body (1), union bush (2), ball (5), stem (6), ball-backing-, body- and stem seal (7-9,11)

Size [inch]	DN [mm]	d [mm]	PVC-U EPDM Code	PF	SP	Weight [kg]	
3/8	10	16	161 483 930	2 31 155 998	12	0.092	
1/2	15	20	161 483 931	2 31 155 998	1	0.088	
3/4	20	25	161 483 932	2 31 155 998	1	0.145	
1	25	32	161 483 933	2 31 155 998	1	0.205	
1 1/4	32	40	161 483 934	2 31 155 998	1	0.343	
1 1/2	40	50	161 483 935	2 31 155 998	1	0.500	
2	50	63	161 483 936	2 31 155 998	1	0.925	

PVC-U FPM Code	PF	SP	Weight [kg]	PVC-C EPDM Code	PF	SP	Weight [kg]	
161 483 940	2 31 155 998	1	0.092	163 480 620	2 32 168 998	1	0.101	
161 483 941	2 31 155 998	1	0.086	163 480 621	2 32 168 998	1	0.091	
161 483 942	2 31 155 998	1	0.140	163 480 622	2 32 168 998	1	0.154	
161 483 943	2 31 155 998	1	0.206	163 480 623	2 32 168 998	1	0.231	
161 483 944	2 31 155 998	1	0.346	163 480 624	2 32 168 998	1	0.365	
161 483 945	2 31 155 998	1	0.521	163 480 625	2 32 168 998	1	0.540	
161 483 946	2 31 155 998	1	0.927	163 480 626	2 32 168 998	1	0.973	

PVC-C FPM Code	PF	SP	Weight [kg]	ABS EPDM Code	PF	SP	Weight [kg]	
163 480 630	2 32 168 998	1	0.101	169 480 301	2 33 173 998	1	0.092	
163 480 631	2 32 168 998	1	0.101	169 480 301	2 33 173 998	1	0.092	
163 480 632	2 32 168 998	1	0.157	169 480 302	2 33 173 998	1	0.140	
163 480 633	2 32 168 998	1	0.231	169 480 303	2 33 173 998	1	0.210	
163 480 634	2 32 168 998	1	0.385	169 480 304	2 33 173 998	1	0.350	
163 480 635	2 32 168 998	1	0.555	169 480 305	2 33 173 998	1	0.505	
163 480 636	2 32 168 998	1	0.976	169 480 306	2 33 173 998	1	0.920	

PP-H EPDM Code	PF	SP	Weight [kg]	PP-H FPM Code	PF	SP	Weight [kg]	
167 480 806	2 34 181 998	1	0.059	167 480 813	2 34 181 998	1	0.059	
167 480 807	2 34 181 998	1	0.059	167 480 814	2 34 181 998	1	0.059	
167 480 808	2 34 181 998	1	0.097	167 480 815	2 34 181 998	1	0.102	
167 480 809	2 34 181 998	1	0.140	167 480 816	2 34 181 998	1	0.145	
167 480 810	2 34 181 998	1	0.221	167 480 817	2 34 181 998	1	0.229	
167 480 811	2 34 181 998	1	0.343	167 480 818	2 34 181 998	1	0.340	
167 480 812	2 34 181 998	1	0.607	167 480 819	2 34 181 998	1	0.613	

PVDF FPM Code	PF	SP	Weight [kg]	
175 480 825	2 35 192 998	1	0.099	
175 480 826	2 35 192 998	1	0.097	
175 480 827	2 35 192 998	1	0.165	
175 480 828	2 35 192 998	1	0.245	
175 480 829	2 35 192 998	1	0.411	
175 480 830	2 34 181 999	1	0.599	
175 480 831	2 35 192 998	1	1.098	

Spare Parts 543

Spare parts ball valve type 543 horizontal Central part L-port

Model:

- Ball seals standard in PTFE
- Central part consisting of: body (1), union bush (2), ball (5), stem (6), ball-, backing-, body-, face- and stem seal (7-11), standard lever (12) and threaded inserts stainless steel (14)
- Every connecting pieces and union nuts are listed on product range industry valves



DN [mm]	Size [inch]	d [mm]	PVC-U EPDM Code	PF	SP	Weight [kg]	
10	3/8	16	161 488 002	2 31 001 999	1	0.158	
15	1/2	20	161 488 002	2 31 001 999	1	0.158	
20	3/4	25	161 488 003	2 31 001 999	1	0.232	
25	1	32	161 488 004	2 31 001 999	1	0.350	
32	1 1/4	40	161 488 005	2 31 001 999	1	0.617	
40	1 1/2	50	161 488 006	2 31 001 999	1	0.916	
50	2	63	161 488 007	2 31 001 999	1	1.757	

PVC-U FPM Code	PF	SP	Weight [kg]	PVC-C EPDM Code	PF	SP	Weight [kg]	
161 488 012	2 31 001 999	1	0.158	163 481 902	2 32 002 999	1	0.172	
161 488 012	2 31 001 999	1	0.158	163 481 902	2 32 002 999	1	0.172	
161 488 013	2 31 001 999	1	0.232	163 481 903	2 32 002 999	1	0.252	
161 488 014	2 31 001 999	1	0.350	163 481 904	2 32 002 999	1	0.380	
161 488 015	2 31 001 999	1	0.617	163 481 905	2 32 002 999	1	0.670	
161 488 016	2 31 001 999	1	0.916	163 481 906	2 32 002 999	1	0.995	
161 488 017	2 31 001 999	1	1.757	163 481 907	2 32 002 999	1	1.909	

PVC-C FPM Code	PF	SP	Weight [kg]	ABS EPDM Code	PF	SP	Weight [kg]	
163 481 912	2 32 002 999	1	0.172	169 481 202	2 33 728 999	0	0.120	
163 481 912	2 32 002 999	1	0.172	169 481 202	2 33 728 999	0	0.120	
163 481 913	2 32 002 999	1	0.252	169 481 203	2 33 728 999	0	0.177	
163 481 914	2 32 002 999	1	0.380	169 481 204	2 33 728 999	0	0.267	
163 481 915	2 32 002 999	1	0.670	169 481 205	2 33 728 999	0	0.471	
163 481 916	2 32 002 999	1	0.995	169 481 206	2 33 728 999	0	0.699	
163 481 917	2 32 002 999	1	1.909	169 481 207	2 33 728 999	0	1.340	

PP-H EPDM Code	PF	SP	Weight [kg]	PP-H FPM Code	PF	SP	Weight [kg]	
167 484 802	2 34 729 999	0	0.103	167 484 812	2 34 729 999	0	0.103	
167 484 802	2 34 729 999	0	0.103	167 484 812	2 34 729 999	0	0.103	
167 484 803	2 34 729 999	1	0.160	167 484 813	2 34 729 999	1	0.160	
167 484 804	2 34 729 999	0	0.229	167 484 814	2 34 729 999	0	0.229	
167 484 805	2 34 729 999	1	0.404	167 484 815	2 34 729 999	0	0.000	
167 484 806	2 34 729 999	0	0.000	167 484 816	2 34 729 999	0	0.000	
167 484 807	2 34 729 999	1	2.380	167 484 817	2 34 729 999	0	0.000	

PVDF FPM Code	PF	SP	Weight [kg]	
175 483 602	2 35 735 999	1	0.180	
175 483 602	2 35 735 999	1	0.180	
175 483 603	2 35 735 999	0	0.000	
175 483 604	2 35 735 999	0	0.450	
175 483 605	2 35 735 999	0	0.765	
175 483 606	2 35 735 999	1	1.080	
175 483 607	2 35 735 999	1	2.210	



Spare parts ball valve type 543 horizontal Central part T-port

Model:

- Ball seals standard in PTFE
- Central part consisting of: body (1), union bush (2), ball (5), stem (6), ball-, backing-, body-, face- and stem seal (7-11), standard lever (12) and threaded inserts stainless steel (14)

d [mm]	Size [inch]	DN [mm]	PVC-U EPDM Code	PF	SP	Weight [kg]	
16	3/8	10	161 488 022	2 31 001 999	1	0.157	
20	1/2	15	161 488 022	2 31 001 999	1	0.157	
25	3/4	20	161 488 023	2 31 001 999	1	0.230	
32	1	25	161 488 024	2 31 001 999	1	0.343	
40	1 1/4	32	161 488 025	2 31 001 999	1	0.606	
50	1 1/2	40	161 488 026	2 31 001 999	1	0.895	
63	2	50	161 488 027	2 31 001 999	1	1.708	

PVC-U FPM Code	PF	SP	Weight [kg]	PVC-C EPDM Code	PF	SP	Weight [kg]	
161 488 032	2 31 001 999	1	0.150	163 481 922	2 32 002 999	1	0.171	
161 488 032	2 31 001 999	1	0.150	163 481 922	2 32 002 999	1	0.171	
161 488 033	2 31 001 999	1	0.230	163 481 923	2 32 002 999	1	0.250	
161 488 034	2 31 001 999	1	0.343	163 481 924	2 32 002 999	1	0.373	
161 488 035	2 31 001 999	1	0.606	163 481 925	2 32 002 999	1	0.658	
161 488 036	2 31 001 999	1	0.895	163 481 926	2 32 002 999	1	0.972	
161 488 037	2 31 001 999	1	1.712	163 481 927	2 32 002 999	1	1.860	

PVC-C FPM Code	PF	SP	Weight [kg]	ABS EPDM Code	PF	SP	Weight [kg]	
163 481 932	2 32 002 999	1	0.171	169 481 212	2 33 728 999	0	0.120	
163 481 932	2 32 002 999	1	0.171	169 481 212	2 33 728 999	0	0.120	
163 481 933	2 32 002 999	1	0.250	169 481 213	2 33 728 999	0	0.175	
163 481 934	2 32 002 999	1	0.250	169 481 214	2 33 728 999	0	0.262	
163 481 935	2 32 002 999	1	0.658	169 481 215	2 33 728 999	0	0.462	
163 481 936	2 32 002 999	1	0.972	169 481 216	2 33 728 999	0	0.683	
163 481 937	2 32 002 999	1	1.860	169 481 217	2 33 728 999	0	1.306	

PP-H EPDM Code	PF	SP	Weight [kg]	PP-H FPM Code	PF	SP	Weight [kg]	
167 484 822	2 34 729 999	0	0.103	167 484 832	2 34 729 999	0	0.103	
167 484 822	2 34 729 999	0	0.103	167 484 832	2 34 729 999	0	0.103	
167 484 823	2 34 729 999	1	0.050	167 484 833	2 34 729 999	0	0.000	
167 484 824	2 34 729 999	0	0.225	167 484 834	2 34 729 999	0	0.225	
167 484 825	2 34 729 999	1	0.400	167 484 835	2 34 729 999	0	0.000	
167 484 826	2 34 729 999	1	0.200	167 484 836	2 34 729 999	0	0.000	
167 484 827	2 34 729 999	1	1.150	167 484 837	2 34 729 999	0	0.000	

PVDF FPM Code	PF	SP	Weight [kg]	
175 483 612	2 35 735 999	1	0.180	
175 483 612	2 35 735 999	1	0.180	
175 483 613	2 35 735 999	1	0.295	
175 483 614	2 35 735 999	1	0.390	
175 483 615	2 35 735 999	1	0.700	
175 483 616	2 35 735 999	0	0.000	
175 483 617	2 35 735 999	0	2.150	



Spare parts ball valve type 543 horizontal Ball set L-port

Model:

- Ball set consisting of: lever (12), ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)
- Ball seals standard in PTFE

d [mm]	Size [inch]	DN [mm]	PVC-U EPDM Code	PF	SP	Weight [kg]	
16	3/8	10	161 488 162	2 31 001 999	1	0.029	
20	1/2	15	161 488 162	2 31 001 999	1	0.029	
25	3/4	20	161 488 163	2 31 001 999	1	0.055	
32	1	25	161 488 164	2 31 001 999	1	0.078	
40	1 1/4	32	161 488 165	2 31 001 999	1	0.132	
50	1 1/2	40	161 488 166	2 31 001 999	1	0.200	
63	2	50	161 488 167	2 31 001 999	1	0.337	

PVC-U FPM Code	PF	SP	Weight [kg]	PVC-C EPDM Code	PF	SP	Weight [kg]	
161 488 172	2 31 001 999	1	0.029	163 481 982	2 32 002 999	1	0.029	
161 488 172	2 31 001 999	1	0.029	163 481 982	2 32 002 999	1	0.029	
161 488 173	2 31 001 999	1	0.059	163 481 983	2 32 002 999	1	0.057	
161 488 174	2 31 001 999	1	0.076	163 481 984	2 32 002 999	1	0.079	
161 488 175	2 31 001 999	1	0.132	163 481 985	2 32 002 999	1	0.138	
161 488 176	2 31 001 999	1	0.200	163 481 986	2 32 002 999	1	0.212	
161 488 177	2 31 001 999	1	0.337	163 481 987	2 32 002 999	1	0.358	

PVC-C FPM Code	PF	SP	Weight [kg]	ABS EPDM Code	PF	SP	Weight [kg]	
163 481 992	2 32 002 999	1	0.029	169 481 282	2 33 728 999	1	0.026	
163 481 992	2 32 002 999	1	0.029	169 481 282	2 33 728 999	1	0.026	
163 481 993	2 32 002 999	1	0.057	169 481 283	2 33 728 999	1	0.049	
163 481 994	2 32 002 999	1	0.057	169 481 284	2 33 728 999	1	0.066	
163 481 995	2 32 002 999	1	0.138	169 481 285	2 33 728 999	1	0.114	
163 481 996	2 32 002 999	1	0.212	169 481 286	2 33 728 999	1	0.170	
163 481 997	2 32 002 999	1	0.358	169 481 287	2 33 728 999	1	0.282	

PP-H EPDM Code	PF	SP	Weight [kg]	PP-H FPM Code	PF	SP	Weight [kg]	
167 484 882	2 34 729 999	1	0.025	167 484 892	2 34 729 999	1	0.052	
167 484 882	2 34 729 999	1	0.025	167 484 892	2 34 729 999	1	0.052	
167 484 883	2 34 729 999	1	0.470	167 484 893	2 34 729 999	1	0.047	
167 484 884	2 34 729 999	1	0.061	167 484 894	2 34 729 999	1	0.061	
167 484 885	2 34 729 999	1	0.106	167 484 895	2 34 729 999	1	0.106	
167 484 886	2 34 729 999	1	0.156	167 484 896	2 34 729 999	1	0.156	
167 484 887	2 34 729 999	1	0.256	167 484 897	2 34 729 999	1	0.256	

PVDF FPM Code	PF	SP	Weight [kg]	
175 483 642	2 35 735 999	1	0.032	
175 483 642	2 35 735 999	1	0.032	
175 483 643	2 35 735 999	1	0.061	
175 483 644	2 35 735 999	0	0.088	
175 483 645	2 35 735 999	0	0.152	
175 483 646	2 35 735 999	0	0.237	
175 483 647	2 35 735 999	1	0.403	



Spare parts ball valve type 543 horizontal Lever

Size [inch]	DN [mm]	d [mm]	Standard lever L-port red Code	SP	Weight [kg]	Standard lever L-port black Code	SP	Weight [kg]	
3/8	10	16	167 484 488	0	0.012	167 484 376	0	0.012	
1/2	15	20	167 484 488	0	0.012	167 484 376	0	0.012	
3/4	20	25	167 484 489	0	0.024	167 484 377	0	0.024	
1	25	32	167 484 490	0	0.024	167 484 378	0	0.024	
1 1/4	32	40	167 484 491	0	0.045	167 484 379	0	0.045	
1 1/2	40	50	167 484 492	0	0.045	167 484 380	0	0.045	
2	50	63	167 484 493	0	0.075	167 484 381	0	0.064	

Standard lever T-port red Code	SP	Weight [kg]	Standard lever T-port black Code	SP	Weight [kg]	Multifunctional lever L-port red Code	SP	Weight [kg]	
167 484 588	0	0.012	167 484 576	0	0.012	167 484 442	0	0.026	
167 484 588	0	0.012	167 484 576	0	0.012	167 484 442	0	0.026	
167 484 589	0	0.024	167 484 577	0	0.024	167 484 443	0	0.045	
167 484 590	0	0.024	167 484 578	0	0.024	167 484 444	0	0.045	
167 484 591	0	0.045	167 484 579	0	0.045	167 484 445	0	0.082	
167 484 592	0	0.045	167 484 580	0	0.045	167 484 446	0	0.082	
167 484 593	0	0.064	167 484 581	0	0.064	167 484 447	0	0.104	

Multifunctional lever T-port red Code	SP	Weight [kg]	
167 484 542	0	0.026	
167 484 542	0	0.026	
167 484 543	0	0.045	
167 484 544	0	0.045	
167 484 545	0	0.082	
167 484 546	0	0.082	
167 484 547	0	0.104	

PF 2 31 001 999



Spare parts ball valve type 543 horizontal Face seal

Model:

- Face seal no. 10



Size [inch]	DN [mm]	d [mm]	EPDM Code	PF	SP	Weight [kg]	
3/8	10	16	748 410 059	2 31 800 999	0	0.002	
1/2	15	20	748 410 059	2 31 800 999	0	0.002	
3/4	20	25	748 410 106	2 31 800 999	0	0.002	
1	25	32	748 410 151	2 31 800 999	0	0.001	
1 1/4	32	40	748 410 062	2 31 800 999	0	0.002	
1 1/2	40	50	748 410 003	2 30 162 006	100	0.004	
2	50	63	748 410 231	2 31 800 999	1	0.005	

FPM Code	PF	SP	Weight [kg]	
749 410 059	2 31 800 999	0	0.001	
749 410 059	2 31 800 999	0	0.001	
749 410 106	2 31 800 999	0	0.001	
749 410 151	2 31 800 999	0	0.002	
749 410 062	2 31 800 999	0	0.002	
749 410 003	2 30 162 008	0	0.001	
749 410 231	2 31 800 999	0	0.008	



Spare parts ball valve type 543 vertical Central part diverter ball

Model:

- Ball seals standard in PTFE
- Central part consisting of: body (1), union bush (2), ball (5), stem (6), ball-, backing-, body-, face- and stem seal (7-11) and standard lever (12)

Size [inch]	DN [mm]	d [mm]	PVC-U EPDM Code	PF	SP	Weight [kg]
3/8	10	16	161 488 061	2 31 001 999	1	0.103
1/2	15	20	161 488 062	2 31 001 999	1	0.103
3/4	20	25	161 488 063	2 31 001 999	1	0.167
1	25	32	161 488 064	2 31 001 999	1	0.231
1 1/4	32	40	161 488 065	2 31 001 999	1	0.397
1 1/2	40	50	161 488 066	2 31 001 999	1	0.549
2	50	63	161 488 067	2 31 001 999	1	0.940

PVC-U FPM Code	PF	SP	Weight [kg]	ABS EPDM Code	PF	SP	Weight [kg]
161 488 071	2 31 001 999	1	0.103	169 481 231	2 33 728 999	1	0.079
161 488 072	2 31 001 999	1	0.103	169 481 232	2 33 728 999	1	0.079
161 488 073	2 31 001 999	1	0.167	169 481 233	2 33 728 999	0	0.127
161 488 074	2 31 001 999	1	0.231	169 481 234	2 33 728 999	0	0.176
161 488 075	2 31 001 999	1	0.397	169 481 235	2 33 728 999	0	0.303
161 488 076	2 31 001 999	1	0.549	169 481 236	2 33 728 999	0	0.419
161 488 077	2 31 001 999	1	0.940	169 481 237	2 33 728 999	0	0.717



Spare parts ball valve type 543 vertical Central part L-port

Model:

- Every connecting pieces and union nuts are listed on product range industry valves
- Ball seals standard in PTFE
- Central part consisting of: body (1), union bush (2), ball (5), stem (6), ball-, backing-, body-, face- and stem seal (7-11) and standard lever (12)

Size [inch]	d [mm]	DN [mm]	PVC-U EPDM Code	PF	SP	Weight [kg]
3/8	16	10	161 488 041	2 31 001 999	1	0.104
3/8	20	15	161 488 042	2 31 001 999	1	0.102
3/4	25	20	161 488 043	2 31 001 999	1	0.169
1	32	25	161 488 044	2 31 001 999	1	0.238
1 1/4	40	32	161 488 045	2 31 001 999	1	0.408
1 1/2	50	40	161 488 046	2 31 001 999	1	0.570
2	63	50	161 488 047	2 31 001 999	1	0.985

PVC-U FPM Code	PF	SP	Weight [kg]	ABS EPDM Code	PF	SP	Weight [kg]
161 488 051	2 31 001 999	1	0.104	169 481 221	2 33 728 999	1	0.079
161 488 052	2 31 001 999	1	0.104	169 481 222	2 33 728 999	1	0.079
161 488 053	2 31 001 999	1	0.169	169 481 223	2 33 728 999	0	0.129
161 488 054	2 31 001 999	1	0.238	169 481 224	2 33 728 999	0	0.181
161 488 055	2 31 001 999	1	0.408	169 481 225	2 33 728 999	0	0.311
161 488 056	2 31 001 999	1	0.570	169 481 226	2 33 728 999	0	0.435
161 488 057	2 31 001 999	1	0.985	169 481 227	2 33 728 999	0	0.751



PF 3 39 980 999

Spare parts ball valve type 543 vertical Assembly kit

Model:

- Intermediate element for ball valve type 543 vertical and electric or pneumatic actuators EA21; PA11/21
- Including screws and position indicator for actuators

d [mm]	DN [mm]	Inch [inch]	Code	SP	Weight [kg]	
16 - 20	10 - 15	$\frac{3}{8}$ - $\frac{1}{2}$	167 484 945	0	0.170	
25 - 32	20 - 25	$\frac{3}{4}$ - 1	167 484 946	0	0.164	
40 - 50	32 - 40	1 $\frac{1}{4}$ - 1 $\frac{1}{2}$	167 484 947	0	0.203	
63	50	2	167 484 948	0	0.260	



Spare parts ball valve type 543 vertical Face seal

Model:

- Face seal no. 10



d [mm]	DN [mm]	Size [inch]	EPDM Code	PF	SP	Weight [kg]	
16	10	$\frac{3}{8}$	748 410 059	2 31 800 999	0	0.002	
20	15	$\frac{1}{2}$	748 410 059	2 31 800 999	0	0.002	
25	20	$\frac{3}{4}$	748 410 106	2 31 800 999	0	0.002	
32	25	1	748 410 151	2 31 800 999	0	0.001	
40	32	1 $\frac{1}{4}$	748 410 062	2 31 800 999	0	0.002	
50	40	1 $\frac{1}{2}$	748 410 003	2 30 162 006	100	0.004	
63	50	2	748 410 231	2 31 800 999	1	0.005	

FPM Code	PF	SP	Weight [kg]	
749 410 059	2 31 800 999	0	0.001	
749 410 059	2 31 800 999	0	0.001	
749 410 106	2 31 800 999	0	0.001	
749 410 151	2 31 800 999	0	0.002	
749 410 062	2 31 800 999	0	0.002	
749 410 003	2 30 162 008	0	0.001	
749 410 231	2 31 800 999	0	0.008	

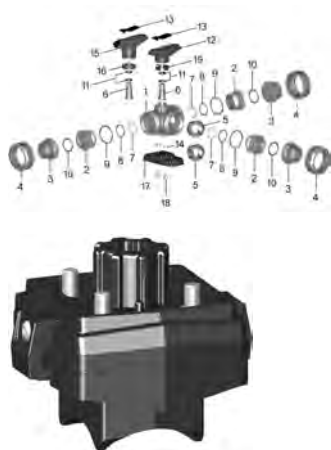


PF 2 31 001 999

Spare parts ball valve type 543 vertical Lever

DN [mm]	d [mm]	Size [inch]	Standard lever L-port red Code	SP	Weight [kg]	Standard lever diverter ball red Code	SP	Weight [kg]	
10	16	3/8	167 484 688	0	0.012	167 484 788	0	0.012	
15	20	1/2	167 484 688	0	0.012	167 484 788	0	0.012	
20	25	3/4	167 484 689	0	0.024	167 484 789	0	0.024	
25	32	1	167 484 690	0	0.024	167 484 790	0	0.024	
32	40	1 1/4	167 484 691	0	0.045	167 484 791	0	0.045	
40	50	1 1/2	167 484 692	0	0.045	167 484 792	0	0.045	
50	63	2	167 484 693	0	0.064	167 484 793	0	0.064	

Multifunctional lever L-port red Code	SP	Weight [kg]	Multifunctional lever diverter ball red Code	SP	Weight [kg]	
167 484 642	0	0.026	167 484 742	0	0.026	
167 484 642	0	0.026	167 484 742	0	0.026	
167 484 643	0	0.045	167 484 743	0	0.045	
167 484 644	0	0.045	167 484 744	0	0.045	
167 484 645	0	0.082	167 484 745	0	0.082	
167 484 646	0	0.082	167 484 746	0	0.082	
167 484 647	0	0.104	167 484 747	0	0.104	



PF 3 39 980 999

Spare parts ball valve type 543 horizontal Assembly kit

Model:

- Intermediate element for ball valve type 543 horizontal and electric or pneumatic actuators EA21; PA11/21
- Including screws and position indicator for actuators

Inch [inch]	d [mm]	DN [mm]	Code	SP	Weight [kg]	
3/8 - 1/2	16 - 20	10 - 15	167 484 941	0	0.156	
1/4 - 1	25 - 32	20 - 25	167 484 942	0	0.188	
1 1/4 - 1 1/2	40 - 50	32 - 40	167 484 943	0	0.211	
2	63	50	167 484 944	0	0.270	



PF 2 31 001 999

Spare parts ball valve type 543 horizontal Turn limiter 90°

DN [mm]	Size [inch]	d [mm]	Code	SP	Weight [kg]	
10	3/8	16	167 482 479	1	0.001	
15	1/2	20	167 482 479	1	0.001	
20	3/4	25	167 482 480	0	0.002	
25	1	32	167 482 480	0	0.002	
32	1 1/4	40	167 482 481	0	0.004	
40	1 1/2	50	167 482 481	0	0.004	
50	2	63	167 482 482	0	0.004	



Spare parts ball valve type 543 horizontal Ball set T-port

Model:

- Ball seals standard in PTFE
- Ball set consisting of: lever (12), ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)

Size [inch]	DN [mm]	d [mm]	PVC-U EPDM Code	PF	SP	Weight [kg]	
3/8	10	16	161 488 182	2 31 001 999	1	0.028	
1/2	15	20	161 488 182	2 31 001 999	1	0.028	
3/4	20	25	161 488 183	2 31 001 999	1	0.053	
1	25	32	161 488 184	2 31 001 999	1	0.069	
1 1/4	32	40	161 488 185	2 31 001 999	1	0.121	
1 1/2	40	50	161 488 186	2 31 001 999	1	0.199	
2	50	63	161 488 187	2 31 001 999	1	0.292	

PVC-U FPM Code	PF	SP	Weight [kg]	PVC-C EPDM Code	PF	SP	Weight [kg]	
161 488 192	2 31 001 999	1	0.028	163 482 002	2 32 002 999	1	0.028	
161 488 192	2 31 001 999	1	0.028	163 482 002	2 32 002 999	1	0.028	
161 488 193	2 31 001 999	1	0.053	163 482 003	2 32 002 999	1	0.055	
161 488 194	2 31 001 999	1	0.076	163 482 004	2 32 002 999	1	0.072	
161 488 195	2 31 001 999	1	0.121	163 482 005	2 32 002 999	1	0.126	
161 488 196	2 31 001 999	1	0.179	163 482 006	2 32 002 999	1	0.189	
161 488 197	2 31 001 999	1	0.292	163 482 007	2 32 002 999	1	0.309	

PVC-C FPM Code	PF	SP	Weight [kg]	ABS EPDM Code	PF	SP	Weight [kg]	
163 482 012	2 32 002 999	1	0.028	169 481 292	2 33 728 999	1	0.025	
163 482 012	2 32 002 999	1	0.028	169 481 292	2 33 728 999	1	0.025	
163 482 013	2 32 002 999	1	0.055	169 481 293	2 33 728 999	1	0.048	
163 482 014	2 32 002 999	1	0.072	169 481 294	2 33 728 999	1	0.060	
163 482 015	2 32 002 999	1	0.126	169 481 295	2 33 728 999	1	0.105	
163 482 016	2 32 002 999	1	0.189	169 481 296	2 33 728 999	1	0.154	
163 482 017	2 32 002 999	1	0.309	169 481 297	2 33 728 999	1	0.247	

PP-H EPDM Code	PF	SP	Weight [kg]	PP-H FPM Code	PF	SP	Weight [kg]	
167 484 902	2 34 729 999	1	0.024	167 484 912	2 34 729 999	1	0.024	
167 484 902	2 34 729 999	1	0.024	167 484 912	2 34 729 999	1	0.024	
167 484 903	2 34 729 999	1	0.045	167 484 913	2 34 729 999	1	0.048	
167 484 904	2 34 729 999	1	0.057	167 484 914	2 34 729 999	1	0.057	
167 484 905	2 34 729 999	1	0.099	167 484 915	2 34 729 999	1	0.099	
167 484 906	2 34 729 999	1	0.142	167 484 916	2 34 729 999	1	0.142	
167 484 907	2 34 729 999	1	0.227	167 484 917	2 34 729 999	1	0.227	

PVDF FPM Code	PF	SP	Weight [kg]	
175 483 652	2 35 735 999	1	0.030	
175 483 652	2 35 735 999	1	0.030	
175 483 653	2 35 735 999	1	0.059	
175 483 654	2 35 735 999	0	0.079	
175 483 655	2 35 735 999	0	0.138	
175 483 656	2 35 735 999	0	0.210	
175 483 657	2 35 735 999	1	0.346	

Multifunctional modules

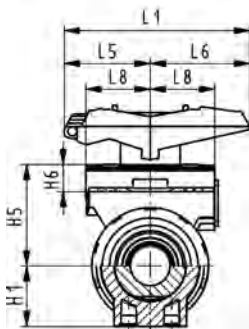
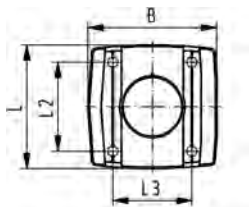
Multifunctional module (I02) PP-GF Module empty

Model:

- Accessory to Ball Valve Type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100
- The multifunctional module from d75 - d110 has a master gauge F07 according to EN ISO 5211.



DN10/15 - 50



PF 2 31 798 999

d-d [mm]	Inch [inch]	DN-DN [mm]	Code	SP	Weight [kg]
16 - 20	3/8 - 1/2	10 - 15	167 482 680	1	0.069
25 - 32	3/4 - 1	20 - 25	167 482 681	1	0.149
40 - 50	1 1/4 - 1 1/2	32 - 40	167 482 682	1	0.168
63	2	50	167 482 683	1	0.209
75 - 90	2 1/2 - 3	65 - 80	167 482 684	1	0.379
110	4	100	167 482 685	1	0.607

d-d [mm]	B [mm]	H1 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L5 [mm]	L6 [mm]	L8 [mm]
16 - 20	67	27	50	17	72	87	54	40	42	45	34
25 - 32	75	30	53	16	72	108	52	46	50	58	38
40 - 50	81	44	72	16	80	140	60	50	66	75	41
63	91	64	94	19	93	165	68	65	78	87	46
75 - 90	90	85	157	23	85	270			64	206	
110	106	123	175	23	97	320			64	256	

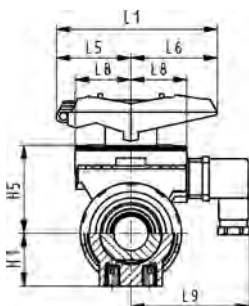
Multifunctional module (I03) PP-GF With mechanical limit switches Ag Ni

Model:

- Accessory to Ball Valve Type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including Plug 3P+E / Protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100



DN10/15 - 50



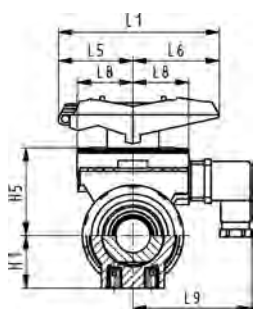
PF 2 31 798 999

d-d [mm]	DN-DN [mm]	Inch [inch]	Code	SP	Weight [kg]
16 - 20	10 - 15	3/8 - 1/2	167 482 626	1	0.104
25 - 32	20 - 25	3/4 - 1	167 482 627	1	0.118
40 - 50	32 - 40	1 1/4 - 1 1/2	167 482 628	1	0.140
63	50	2	167 482 629	1	0.257
75 - 90	65 - 80	2 1/2 - 3	167 482 630	1	0.478
110	100	4	167 482 631	1	0.480

d-d [mm]	H1 [mm]	H5 [mm]	L1 [mm]	L5 [mm]	L6 [mm]	L8 [mm]	L9 [mm]
16 - 20	27	50	87	42	45	34	73
25 - 32	30	53	108	50	58	38	77
40 - 50	44	72	140	66	75	41	80
63	64	94	165	78	87	46	85
75 - 90	85	157	270	64	206		
110	123	175	320	64	256		



DN10/15 - 50



PF 2 31 798 999

Multifunctional module (I04) PP-GF With mechanical limit switches Au

Model:

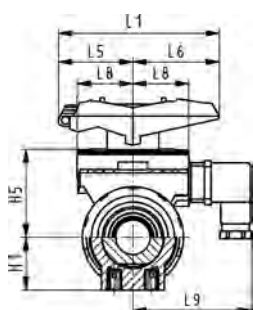
- Accessory to Ball Valve Type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including Plug 3P+E / Protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100

DN-DN [mm]	d-d [mm]	Inch [inch]	Code	SP	Weight [kg]
10 - 15	16 - 20	$\frac{3}{8}$ - $\frac{1}{2}$	167 482 635	1	0.103
20 - 25	25 - 32	$\frac{3}{4}$ - 1	167 482 636	1	0.120
32 - 40	40 - 50	1 $\frac{1}{4}$ - 1 $\frac{1}{2}$	167 482 637	1	0.138
50	63	2	167 482 638	1	0.175
65 - 80	75 - 90	2 $\frac{1}{2}$ - 3	167 482 639	1	0.460
100	110	4	167 482 640	1	0.480

H1 [mm]	H5 [mm]	L1 [mm]	L5 [mm]	L6 [mm]	L8 [mm]	L9 [mm]
27	50	87	42	45	34	73
30	53	108	50	58	38	77
44	72	140	66	75	41	80
64	94	165	78	87	46	85
85	157	270	64	206		
123	175	320	64	256		



DN10/15 - 50



PF 2 31 798 999

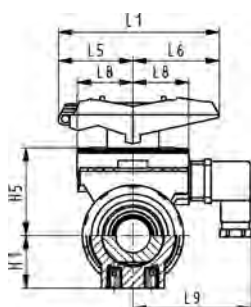
Multifunctional module (I05) PP-GF With inductive limit switches Namur

Model:

- Accessory to Ball Valve Type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including Plug 3P+E / Protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100

Inch [inch]	DN-DN [mm]	d-d [mm]	Code	SP	Weight [kg]
$\frac{3}{8}$ - $\frac{1}{2}$	10 - 15	16 - 20	167 482 671	1	0.097
$\frac{3}{4}$ - 1	20 - 25	25 - 32	167 482 672	1	0.107
1 $\frac{1}{4}$ - 1 $\frac{1}{2}$	32 - 40	40 - 50	167 482 673	1	0.135
2	50	63	167 482 674	1	0.257
2 $\frac{1}{2}$ - 3	65 - 80	75 - 90	167 482 675	1	0.460
4	100	110	167 482 676	1	0.480

H1 [mm]	H5 [mm]	L1 [mm]	L5 [mm]	L6 [mm]	L8 [mm]	L9 [mm]
27	50	87	42	45	34	73
30	53	108	50	58	38	77
44	72	140	66	75	41	80
64	94	165	78	87	46	85
85	157	270	64	206		
123	175	320	64	256		



PF 2 31 798 999

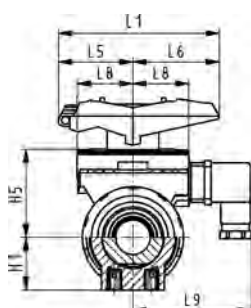
Multifunctional module (I06) PP-GF With inductive limit switches PNP

Model:

- Accessory to Ball Valve Type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including Plug 3P+E / Protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100

Inch [inch]	DN-DN [mm]	d-d [mm]	Code	SP	Weight [kg]
3/8 - 1/2	10 - 15	16 - 20	167 482 662	1	0.182
1/4 - 1	20 - 25	25 - 32	167 482 663	1	0.197
1 1/4 - 1 1/2	32 - 40	40 - 50	167 482 664	1	0.215
2	50	63	167 482 665	1	0.175
2 1/2 - 3	65 - 80	75 - 90	167 482 666	1	0.460
4	100	110	167 482 667	1	0.480

H1 [mm]	H5 [mm]	L1 [mm]	L5 [mm]	L6 [mm]	L8 [mm]	L9 [mm]
27	50	87	42	45	34	73
30	53	108	50	58	38	77
44	72	140	66	75	41	80
64	94	165	78	87	46	85
85	157	270	64	206		
123	175	320	64	256		



PF 2 31 798 999

Multifunctional module (I07) PP-GF With inductive limit switches NPN

Model:

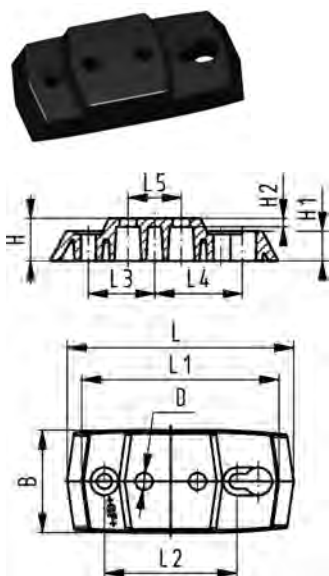
- Accessory to Ball Valve Type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including Plug 3P+E / Protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100

Inch [inch]	DN-DN [mm]	d-d [mm]	Code	SP	Weight [kg]
3/8 - 1/2	10 - 15	16 - 20	167 482 653	1	0.110
1/4 - 1	20 - 25	25 - 32	167 482 654	1	0.120
1 1/4 - 1 1/2	32 - 40	40 - 50	167 482 655	1	0.135
2	50	63	167 482 656	1	0.175
2 1/2 - 3	65 - 80	75 - 90	167 482 657	1	0.460
4	100	110	167 482 658	1	0.480

H1 [mm]	H5 [mm]	L1 [mm]	L5 [mm]	L6 [mm]	L8 [mm]	L9 [mm]
27	50	87	42	45	34	73
30	53	108	50	58	38	77
44	72	140	66	75	41	80
64	94	165	78	87	46	85
85	157	270	64	206		
123	175	320	64	256		

Mounting plates

Mounting plate 546 and 543 PP-GF (L02)



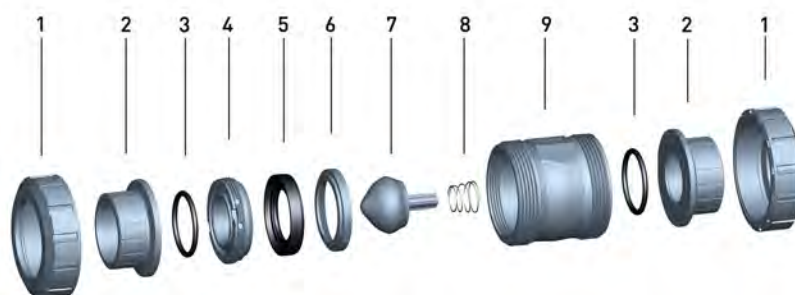
- 2 mounting screws inclusive

Inch [inch]	DN-DN [mm]	d-d [mm]	Code	SP	Weight [kg]	
3/8 - 1	10 - 25	16 - 32	167 484 110	0	0.054	
1 1/4 - 2	32 - 50	40 - 63	167 484 111	0	0.066	

B [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	
48	8	20	14	4	106	92	62	31	41	25	
54	9	20	14	4	149	134	104	52	62	45	

PF 2 31 798 999

Spare parts cone check valve type 561/562



Spare parts cone check valve type 561/562 Central part without spring

Model:

- Central body consisting of: housing (9), union bush (4), support ring (6), cone (7), profile seal ring (5) and face seal (3)

d [mm]	Size [inch]	DN [mm]	PVC-U EPDM Code	PF	Weight [kg]	PVC-U FPM Code	PF	Weight [kg]
16	3/8	10	161 485 201	2 31 986 999	0.070	161 485 211	2 31 986 999	0.070
20	1/2	15	161 485 201	2 31 986 999	0.070	161 485 211	2 31 986 999	0.070
25	3/4	20	161 485 202	2 31 986 999	0.170	161 485 212	2 31 986 999	0.190
32	1	25	161 485 203	2 31 986 999	0.160	161 485 213	2 31 986 999	0.160
40	1 1/4	32	161 485 204	2 31 986 999	0.270	161 485 214	2 31 986 999	0.270
50	1 1/2	40	161 485 205	2 31 986 999	0.400	161 485 215	2 31 986 999	0.400
63	2	50	161 485 206	2 31 986 999	0.710	161 485 216	2 31 986 999	0.720
75	2 1/2	65	161 485 207	2 31 986 999	1.580	161 485 217	2 31 986 999	1.590
90	3	80	161 485 208	2 31 986 999	2.520	161 485 218	2 31 986 999	2.550
110	4	100	161 485 209	2 31 986 999	4.140	161 485 219	2 31 986 999	4.180

table continued next page

d [mm]	PVC-C EPDM Code	PF	Weight [kg]	PVC-C FPM Code	PF	Weight [kg]	
16	163 485 201	2 32 987 999	0.070	163 485 211	2 32 987 999	0.070	
20	163 485 201	2 32 987 999	0.070	163 485 211	2 32 987 999	0.070	
25	163 485 202	2 32 987 999	0.190	163 485 212	2 32 987 999	0.210	
32	163 485 203	2 32 987 999	0.170	163 485 213	2 32 987 999	0.170	
40	163 485 204	2 32 987 999	0.290	163 485 214	2 32 987 999	0.290	
50	163 485 205	2 32 987 999	0.440	163 485 215	2 32 987 999	0.440	
63	163 485 206	2 32 987 999	0.780	163 485 216	2 32 987 999	0.780	
75	163 485 207	2 32 987 999	1.730	163 485 217	2 32 987 999	1.740	
90	163 485 208	2 32 987 999	2.760	163 485 218	2 32 987 999	2.790	
110	163 485 209	2 32 987 999	4.530	163 485 219	2 32 987 999	4.580	

d [mm]	ABS EPDM Code	PF	Weight [kg]	PP-H EPDM Code	PF	Weight [kg]	
16	169 485 201	2 33 988 999	0.050	167 485 201	2 34 989 999	0.040	
20	169 485 201	2 33 988 999	0.050	167 485 201	2 34 989 999	0.040	
25	169 485 202	2 33 988 999	0.130	167 485 202	2 34 989 999	0.110	
32	169 485 203	2 33 988 999	0.120	167 485 203	2 34 989 999	0.100	
40	169 485 204	2 33 988 999	0.200	167 485 204	2 34 989 999	0.180	
50	169 485 205	2 33 988 999	0.300	167 485 205	2 34 989 999	0.260	
63	169 485 206	2 33 988 999	0.540	167 485 206	2 34 989 999	0.470	
75	169 485 207	2 33 988 999	1.310	167 485 207	2 34 989 999	1.040	
90	169 485 208	2 33 988 999	2.100	167 485 208	2 34 989 999	1.660	
110	169 485 209	2 33 988 999	3.450	167 485 209	2 34 989 999	2.730	

d [mm]	PP-H FPM Code	PF	Weight [kg]	PVDF FPM Code	PF	Weight [kg]	
16	167 485 211	2 34 989 999	0.040	175 485 211	2 35 990 999	0.080	
20	167 485 211	2 34 989 999	0.040	175 485 211	2 35 990 999	0.080	
25	167 485 212	2 34 989 999	0.120	175 485 212	2 35 990 999	0.220	
32	167 485 213	2 34 989 999	0.100	175 485 213	2 35 990 999	0.200	
40	167 485 214	2 34 989 999	0.180	175 485 214	2 35 990 999	0.350	
50	167 485 215	2 34 989 999	0.260	175 485 215	2 35 990 999	0.520	
63	167 485 216	2 34 989 999	0.470	175 485 216	2 35 990 999	0.920	
75	167 485 217	2 34 989 999	1.050	175 485 217	2 35 990 999	2.060	
90	167 485 218	2 34 989 999	1.680	175 485 218	2 35 990 999	3.290	
110	167 485 219	2 34 989 999	2.760	175 485 219	2 35 990 999	2.960	



DN10/15 - 50



PF 2 31 798 999

Spare parts cone check valve type 561/562 Handle for dismantling

d [mm]	Size [inch]	DN [mm]	red Code	Weight [kg]	black Code	Weight [kg]	
16	3/8	10	167 484 088	0.012	167 484 076	0.012	
20	1/2	15	167 484 088	0.012	167 484 076	0.012	
25	3/4	20	167 484 089	0.022	167 484 077	0.022	
32	1	25	167 484 090	0.022	167 484 078	0.022	
40	1 1/4	32	167 484 091	0.042	167 484 079	0.042	
50	1 1/2	40	167 484 092	0.042	167 484 080	0.042	
63	2	50	167 484 093	0.064	167 484 081	0.059	
75	2 1/2	65	167 484 094	0.250	167 484 082	0.250	
90	3	80	167 484 095	0.250	167 484 083	0.250	
110	4	100	167 484 096	0.298	167 484 084	0.298	



Spare parts cone check valve type 561/562 Face seal (3)

d [mm]	Size [inch]	DN [mm]	EPDM Code	PF	Weight [kg]	FPM Code	PF	Weight [kg]	
16	3/8	10	748 410 059	2 31 800 999	0.002	749 410 059	2 31 800 999	0.001	
20	1/2	15	748 410 059	2 31 800 999	0.002	749 410 059	2 31 800 999	0.001	
25	3/4	20	748 410 106	2 31 800 999	0.002	749 410 106	2 31 800 999	0.001	
32	1	25	748 410 151	2 31 800 999	0.001	749 410 151	2 31 800 999	0.002	
40	1 1/4	32	748 410 062	2 31 800 999	0.002	749 410 062	2 31 800 999	0.002	

table continued next page

d [mm]	Size [inch]	DN [mm]	EPDM Code	PF	Weight [kg]	FPM Code	PF	Weight [kg]
50	1 ½	40	748 410 003	2 30 162 006	0.004	749 410 003	2 30 162 008	0.001
63	2	50	748 410 231	2 31 800 999	0.005	749 410 231	2 31 800 999	0.008
75	2 ½	65	748 410 119	2 31 161 999	0.005	749 410 119	2 31 161 999	0.010
90	3	80	748 410 023	2 31 800 999	0.010	749 410 023	2 31 800 999	0.012
110	4	100	748 410 254	2 31 800 999	0.020	749 410 254	2 31 800 999	0.030



Spare parts cone check valve type 561/562

Seal set

- Model:**
- Seal set consisting of: profile seal ring (5) and face seal (3)

d [mm]	Size [inch]	DN [mm]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
16	¾	10	161 485 241	0.010	161 485 251	0.009
20	½	15	161 485 241	0.010	161 485 251	0.009
25	¾	20	161 485 242	0.007	161 485 252	0.010
32	1	25	161 485 243	0.010	161 485 253	0.015
40	1 ¼	32	161 485 244	0.130	161 485 254	0.020
50	1 ½	40	161 485 245	0.220	161 485 255	0.039
63	2	50	161 485 246	0.047	161 485 256	0.052
75	2 ½	65	161 485 247	0.074	161 485 257	0.128
90	3	80	161 485 248	0.111	161 485 258	0.184
110	4	100	161 485 249	0.188	161 485 259	0.318

PF 2 31 986 999



Spare parts cone check valve type 561/562

Profile seal ring (5)

d [mm]	Size [inch]	DN [mm]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
16	¾	10	748 436 001	0.003	749 436 001	0.005
20	½	15	748 436 001	0.003	749 436 001	0.005
25	¾	20	748 436 002	0.003	749 436 002	0.006
32	1	25	748 436 003	0.006	749 436 003	0.011
40	1 ¼	32	748 436 004	0.009	749 436 004	0.016
50	1 ½	40	748 436 005	0.014	749 436 005	0.025
63	2	50	748 436 006	0.027	749 436 006	0.048
75	2 ½	65	748 436 007	0.069	749 436 007	0.121
90	3	80	748 436 008	0.101	749 436 008	0.177
110	4	100	748 436 009	0.149	749 436 009	0.261

PF 2 31 986 999



Spare parts cone check valve type 561/562

Cone (7)

d [mm]	Size [inch]	DN [mm]	PVC-U Code	PF	Weight [kg]	PVC-C Code	PF	Weight [kg]
16	¾	10	161 491 151	2 31 986 999	0.005	163 482 151	2 32 987 999	0.006
20	½	15	161 491 151	2 31 986 999	0.005	163 482 151	2 32 987 999	0.006
25	¾	20	161 491 152	2 31 986 999	0.009	163 482 152	2 32 987 999	0.010
32	1	25	161 491 153	2 31 986 999	0.018	163 482 153	2 32 987 999	0.020
40	1 ¼	32	161 491 154	2 31 986 999	0.037	163 482 154	2 32 987 999	0.040
50	1 ½	40	161 491 155	2 31 986 999	0.067	163 482 155	2 32 987 999	0.073
63	2	50	161 491 156	2 31 986 999	0.105	163 482 156	2 32 987 999	0.115
75	2 ½	65	161 491 157	2 31 986 999	0.230	163 482 157	2 32 987 999	0.251
90	3	80	161 491 158	2 31 986 999	0.405	163 482 158	2 32 987 999	0.044
110	4	100	161 491 159	2 31 986 999	0.730	163 482 159	2 32 987 999	0.770

d [mm]	ABS Code	PF	Weight [kg]	PP-H Code	PF	Weight [kg]
16	169 482 151	2 33 988 999	0.004	167 485 151	2 34 989 999	0.003
20	169 482 151	2 33 988 999	0.004	167 485 151	2 34 989 999	0.003
25	169 482 152	2 33 988 999	0.007	167 485 152	2 34 989 999	0.006
32	169 482 153	2 33 988 999	0.014	167 485 153	2 34 989 999	0.012

table continued next page

d [mm]	ABS Code	PF	Weight [kg]	PP-H Code	PF	Weight [kg]	
40	169 482 154	2 33 988 999	0.028	167 485 154	2 34 989 999	0.024	
50	169 482 155	2 33 988 999	0.051	167 485 155	2 34 989 999	0.044	
63	169 482 156	2 33 988 999	0.080	167 485 156	2 34 989 999	0.069	
75	169 482 157	2 33 988 999	0.175	167 485 157	2 34 989 999	0.152	
90	169 482 158	2 33 988 999	0.305	167 485 158	2 34 989 999	0.265	
110	169 482 159	2 33 988 999	0.535	167 485 159	2 34 989 999	0.485	
d [mm]	PP-Talkum 20% Code	PF	Weight [kg]	PVDF Code	PF	Weight [kg]	
16	167 485 351	2 34 989 999	0.004	175 484 151	2 35 990 999	0.007	
20	167 485 351	2 34 989 999	0.004	175 484 151	2 35 990 999	0.007	
25	167 485 352	2 34 989 999	0.007	175 484 152	2 35 990 999	0.011	
32	167 485 353	2 34 989 999	0.014	175 484 153	2 35 990 999	0.024	
40	167 485 354	2 34 989 999	0.028	175 484 154	2 35 990 999	0.047	
50	167 485 355	2 34 989 999	0.044	175 484 155	2 35 990 999	0.086	
63	167 485 356	2 34 989 999	0.079	175 484 156	2 35 990 999	0.136	
75	167 485 357	2 34 989 999	0.165	175 484 157	2 35 990 999	0.296	
90	167 485 358	2 34 989 999	0.295	175 484 158	2 35 990 999	0.520	
110	167 485 359	2 34 989 999	0.530	175 484 159	2 35 990 999	0.860	



Spare parts cone check valve type 561/562 Spring (8)

Model:

- Material: NIMONIC 90, code: 2.4632
- Material: V2A, code: 1.4310, HALAR® coated
- Material: V2A, code: 1.4310

d [mm]	Size [inch]	DN [mm]	Stainless steel V2A Code	Weight [kg]	V2A HALAR coated Code	Weight [kg]	NIMONIC 90 Code	Weight [kg]	
16	3/8	10	161 485 132	0.001	161 485 142	0.001	161 485 152	0.001	
20	1/2	15	161 485 132	0.001	161 485 142	0.001	161 485 152	0.001	
25	3/4	20	161 485 132	0.001	161 485 142	0.001	161 485 152	0.001	
32	1	25	161 485 133	0.001	161 485 143	0.001	161 485 153	0.001	
40	1 1/4	32	161 485 134	0.002	161 485 144	0.002	161 485 154	0.002	
50	1 1/2	40	161 485 135	0.002	161 485 145	0.002	161 485 155	0.002	
63	2	50	161 485 136	0.003	161 485 146	0.003	161 485 156	0.003	
75	2 1/2	65	161 485 137	0.003	161 485 147	0.003	161 485 157	0.003	
90	3	80	161 485 138	0.004	161 485 148	0.004	161 485 158	0.004	
110	4	100	161 485 139	0.004	161 485 149	0.004	161 485 159	0.004	

PF 2 31 986 999



Spare parts cone check valve type 561/562 Central part with spring

Model:

- Central body consisting of: housing (9), union bush (4), support ring (6), cone (7), spring V2A (8), profile seal ring (5) and face seal (3)

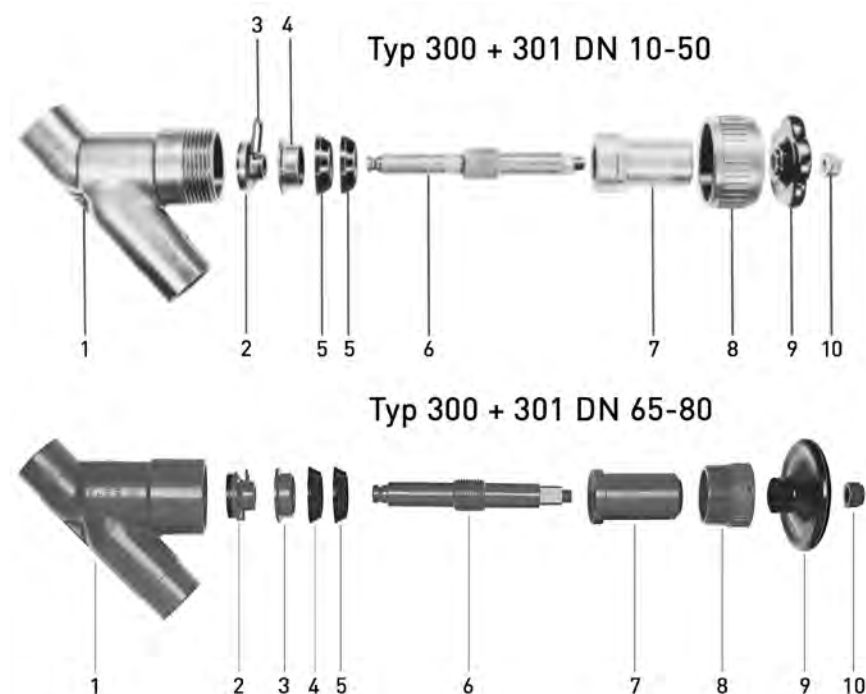
d [mm]	Size [inch]	DN [mm]	PVC-U EPDM Code	PF	Weight [kg]	PVC-U FPM Code	PF	Weight [kg]	
16	3/8	10	161 485 221	2 31 986 999	0.070	161 485 231	2 31 986 999	0.070	
20	1/2	15	161 485 221	2 31 986 999	0.070	161 485 231	2 31 986 999	0.070	
25	3/4	20	161 485 222	2 31 986 999	0.170	161 485 232	2 31 986 999	0.190	
32	1	25	161 485 223	2 31 986 999	0.160	161 485 233	2 31 986 999	0.160	
40	1 1/4	32	161 485 224	2 31 986 999	0.270	161 485 234	2 31 986 999	0.270	
50	1 1/2	40	161 485 225	2 31 986 999	0.400	161 485 235	2 31 986 999	0.400	
63	2	50	161 485 226	2 31 986 999	0.710	161 485 236	2 31 986 999	0.720	
75	2 1/2	65	161 485 227	2 31 986 999	1.580	161 485 237	2 31 986 999	1.590	
90	3	80	161 485 228	2 31 986 999	2.520	161 485 238	2 31 986 999	2.550	
110	4	100	161 485 229	2 31 986 999	4.140	161 485 239	2 31 986 999	4.180	

table continued next page

d [mm]	PVC-C EPDM Code	PF	Weight [kg]	PVC-C FPM Code	PF	Weight [kg]	
16	163 485 221	2 32 987 999	0.070	163 485 231	2 32 987 999	0.070	
20	163 485 221	2 32 987 999	0.070	163 485 231	2 32 987 999	0.070	
25	163 485 222	2 32 987 999	0.190	163 485 232	2 32 987 999	0.210	
32	163 485 223	2 32 987 999	0.170	163 485 233	2 32 987 999	0.170	
40	163 485 224	2 32 987 999	0.290	163 485 234	2 32 987 999	0.290	
50	163 485 225	2 32 987 999	0.440	163 485 235	2 32 987 999	0.440	
63	163 485 226	2 32 987 999	0.780	163 485 236	2 32 987 999	0.780	
75	163 485 227	2 32 987 999	1.730	163 485 237	2 32 987 999	1.740	
90	163 485 228	2 32 987 999	2.760	163 485 238	2 32 987 999	2.790	
110	163 485 229	2 32 987 999	4.530	163 485 239	2 32 987 999	4.580	
d [mm]	ABS EPDM Code	PF	Weight [kg]	PP-H EPDM Code	PF	Weight [kg]	
16	169 485 221	2 33 988 999	0.050	167 485 231	2 34 989 999	0.040	
20	169 485 221	2 33 988 999	0.050	167 485 231	2 34 989 999	0.040	
25	169 485 222	2 33 988 999	0.140	167 485 232	2 34 989 999	0.100	
32	169 485 223	2 33 988 999	0.130	167 485 233	2 34 989 999	0.090	
40	169 485 224	2 33 988 999	0.220	167 485 234	2 34 989 999	0.150	
50	169 485 225	2 33 988 999	0.330	167 485 235	2 34 989 999	0.220	
63	169 485 226	2 33 988 999	0.590	167 485 236	2 34 989 999	0.390	
75	169 485 227	2 33 988 999	1.310	167 485 237	2 34 989 999	0.880	
90	169 485 228	2 33 988 999	2.100	167 485 238	2 34 989 999	1.400	
110	169 485 229	2 33 988 999	3.450	167 485 239	2 34 989 999	2.300	
d [mm]	PP-H FPM Code	PF	Weight [kg]	PVDF FPM Code	PF	Weight [kg]	
16	167 485 241	2 34 989 999	0.040	175 485 231	2 35 990 999	0.050	
20	167 485 241	2 34 989 999	0.040	175 485 231	2 35 990 999	0.050	
25	167 485 242	2 34 989 999	0.090	175 485 232	2 35 990 999	0.130	
32	167 485 243	2 34 989 999	0.090	175 485 233	2 35 990 999	0.110	
40	167 485 244	2 34 989 999	0.150	175 485 234	2 35 990 999	0.190	
50	167 485 245	2 34 989 999	0.220	175 485 235	2 35 990 999	0.280	
63	167 485 246	2 34 989 999	0.390	175 485 236	2 35 990 999	0.510	
75	167 485 247	2 34 989 999	0.870	175 485 237	2 35 990 999	1.130	
90	167 485 248	2 34 989 999	1.390	175 485 238	2 35 990 999	1.800	
110	167 485 249	2 34 989 999	2.270	175 485 239	2 35 990 999	2.960	

Spare parts angle seat valves

Spare parts angel seat valves type 300/301



Spare parts angle seat valve type 300/301 Bonnet complete

Model:

- Bonnet complete consisting of: seal element PVC-U and seating PE, retaining pin, seal support ring, stem, threaded bush, union nut and handwheel nut in PVC-U, cup seal and handwheel in PE (2 -10)

d [mm]	DN [mm]	Size [inch]	PVC-U/PE Code	SP	Weight [kg]	
16	10	3/8	161 482 250	1	0.500	
20	15	1/2	161 482 251	1	0.140	
25	20	3/4	161 482 252	1	0.190	
32	25	1	161 482 253	1	0.215	
40	32	1 1/4	161 482 254	1	0.330	
50	40	1 1/2	161 482 255	1	0.750	
63	50	2	161 482 256	1	0.900	
75	65	2 1/2	161 482 257	1	0.300	
90	80	3	161 482 258	0	2.400	

PF 2 31 160 998



Spare parts angle seat valve type 300/301 Body (1)

Size [inch]	DN [mm]	d [mm]	PVC-U Code	SP	Weight [kg]	PVC-U transparent Code	SP	Weight [kg]	
3/8	10	16	161 300 251	0	0.044	192 480 000	0	0.112	
1/2	15	20	161 300 301	0	0.062	192 480 001	0	0.066	
3/4	20	25	161 300 351	0	0.095	192 480 002	0	0.095	
1	25	32	161 300 401	0	0.156	192 301 401	0	0.185	
1 1/4	32	40	161 300 451	0	0.242	192 301 451	0	0.256	
1 1/2	40	50	161 300 501	0	0.410	192 301 501	0	0.401	
2	50	63	161 300 551	0	0.695	192 301 551	0	0.657	
2 1/2	65	75	161 300 601	0	1.327	192 301 601	0	1.327	
3	80	90	161 300 651	0	1.903	192 301 651	0	1.920	

PF 2 31 160 999



Spare parts angle seat valve type 300/301 Plug

Model:

- DN65-DN80 (8)

d [mm]	Size [inch]	DN [mm]	PVC-U Code	SP	Weight [kg]	
75	2 1/2	65	161 300 608	0	0.202	
90	3	80	161 300 658	0	0.280	

PF 2 31 160 999



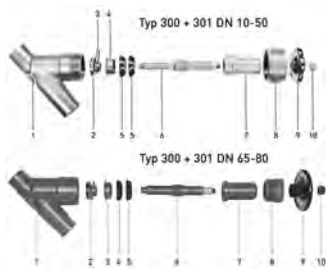
Spare parts angle seat valve type 300/301 Handwheel (9)

Size [inch]	d [mm]	DN [mm]	Code	SP	Weight [kg]	
3/8	16	10	161 300 259	0	0.030	
1/2	20	15	161 300 309	0	0.040	
3/4	25	20	161 300 309	0	0.040	
1	32	25	161 300 409	0	0.062	
1 1/4	40	32	161 300 459	0	0.750	
1 1/2	50	40	161 300 509	0	0.125	
2	63	50	161 300 559	0	0.120	
2 1/2	75	65	161 300 609	0	0.310	
3	90	80	161 300 659	0	0.630	

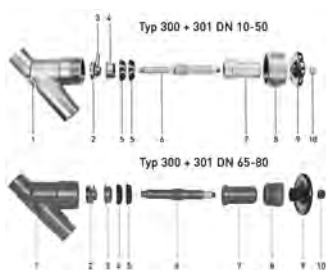
PF 2 31 160 999



Spare parts angle seat valve type 300/301 Handwheel nut (10)



d [mm]	DN [mm]	Size [inch]	PVC-U Code	PF	SP	Weight [kg]
16	10	3/8	161 300 260	2 31 160 999	0	0.002
20	15	1/2	721 960 603	2 30 166 016	10	0.013
25	20	3/4	721 960 603	2 30 166 016	10	0.013
32	25	1	721 960 603	2 30 166 016	10	0.013
40	32	1 1/4	721 960 604	2 30 166 016	10	0.024
50	40	1 1/2	721 960 604	2 30 166 016	10	0.024
63	50	2	721 960 605	2 30 166 016	10	0.012
75	65	2 1/2	721 960 606	2 30 166 016	10	0.018
90	80	3	721 960 607	2 30 166 016	10	0.024



Spare parts angle seat valve type 300/301 Stem set

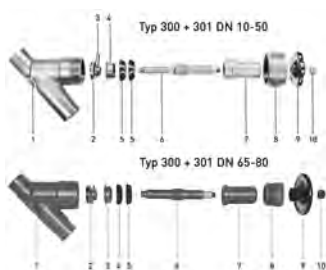
Model:

- Stem set consisting of: stem and threaded bush (6, 7)



DN [mm]	Size [inch]	d [mm]	PVC-U Code	SP	Weight [kg]
10	3/8	16	161 483 062	1	0.026
15	1/2	20	161 483 063	1	0.039
20	3/4	25	161 483 064	1	0.054
25	1	32	161 483 065	1	0.075
32	1 1/4	40	161 483 066	1	0.144
40	1 1/2	50	161 483 067	1	0.241
50	2	63	161 483 068	1	0.379
65	2 1/2	75	161 483 069	1	0.585
80	3	90	161 483 070	1	0.903

PF 2 31 160 998



Spare parts angle seat valve type 300/301 Union nut

Model:

- DN10-DN50 (8)



d [mm]	DN [mm]	Size [inch]	PVC-U Code	SP	Weight [kg]
16	10	3/8	161 300 258	0	0.028
20	15	1/2	161 300 308	0	0.015
25	20	3/4	161 300 358	0	0.022
32	25	1	161 300 408	0	0.039
40	32	1 1/4	161 300 458	0	0.047
50	40	1 1/2	161 300 508	0	0.085
63	50	2	161 300 558	0	0.132

PF 2 31 160 999



PF 2 31 160 998

Spare parts angle seat valve type 300/301 Disc retaining pin set

Model:

- Disc retaining pin set consisting of: seal element and seating, retaining pin, screen support and cup seal (2-5)

d [mm]	Size [inch]	DN [mm]	PE Code	SP	Weight [kg]	PTFE Code	SP	Weight [kg]	
16	3/8	10	161 483 076	1	0.011	161 483 089	1	0.012	
20	1/2	15	161 483 077	1	0.012	161 483 090	1	0.015	
25	3/4	20	161 483 078	1	0.019	161 483 091	1	0.022	
32	1	25	161 483 079	1	0.024	161 483 092	1	0.031	
40	1 1/4	32	161 483 080	1	0.040	161 483 093	1	0.053	
50	1 1/2	40	161 483 081	1	0.067	161 483 094	1	0.091	
63	2	50	161 483 082	1	0.105	161 483 095	1	0.144	
75	2 1/2	65	161 483 083	1	0.175	161 483 096	1	0.500	
90	3	80	161 483 084	1	0.280	161 483 097	1	0.273	



Spare parts angle seat valve type 303/304 Body (1)

Size [inch]	d [mm]	DN [mm]	PVC-U Code	PF	SP	Weight [kg]	
3/8	16	10	161 480 699	2 31 161 999	0	0.112	
1/2	20	15	161 480 700	2 31 161 999	0	0.062	
3/4	25	20	161 480 701	2 31 161 999	0	0.260	
1	32	25	161 300 401	2 31 160 999	0	0.156	
1 1/4	40	32	161 300 451	2 31 160 999	0	0.242	
1 1/2	50	40	161 300 501	2 31 160 999	0	0.410	
2	63	50	161 300 551	2 31 160 999	0	0.695	
2 1/2	75	65	161 300 601	2 31 160 999	0	1.327	
3	90	80	161 300 651	2 31 160 999	0	1.903	

PVC-U transparent Code	PF	SP	Weight [kg]	
192 480 000	2 31 160 999	0	0.112	
192 480 001	2 31 160 999	0	0.066	
192 480 002	2 31 160 999	0	0.095	
192 301 401	2 31 160 999	0	0.185	
192 301 451	2 31 160 999	0	0.256	
192 301 501	2 31 160 999	0	0.401	
192 301 551	2 31 160 999	0	0.657	
192 301 601	2 31 160 999	0	1.327	
192 301 651	2 31 160 999	0	1.920	



Spare parts angle seat valve type 303/304 Closure plug (5)

Size [inch]	d [mm]	DN [mm]	PVC-U Code	SP	Weight [kg]	
3/8	16	10	161 480 648	0	0.013	
1/2	20	15	161 480 649	1	0.019	
3/4	25	20	161 480 650	0	0.026	
1	32	25	161 480 651	0	0.040	
1 1/4	40	32	161 480 652	0	0.071	
1 1/2	50	40	161 480 653	0	0.112	
2	63	50	161 480 654	0	0.172	
2 1/2	75	65	161 490 412	0	0.458	
3	90	80	161 490 413	0	0.591	

PF 2 31 161 999



Spare parts angle seat valve type 303/304 Plug

Model:

- DN65-DN80 (6)

Size [inch]	DN [mm]	d [mm]	PVC-U Code	SP	Weight [kg]	
2 1/2	65	75	161 305 604	0	0.200	
3	80	90	161 305 654	0	0.265	

PF 2 31 161 999



Spare parts angle seat valve type 303/304 Circlip (7)

DN [mm]	d [mm]	Size [inch]	PVC-U Code	SP	Weight [kg]	
10	16	3/8	161 482 076	1	0.001	
15	20	1/2	161 482 017	0	0.001	
20	25	3/4	161 482 018	0	0.003	
25	32	1	161 482 019	0	0.001	
32	40	1 1/4	161 482 020	0	0.003	
40	50	1 1/2	161 482 021	0	0.003	
50	63	2	161 482 022	0	0.004	



PF 2 31 161 999



Spare parts angle seat valve type 303/304 Union nut

Model:

- DN10-DN50 (6)

DN [mm]	d [mm]	Size [inch]	PVC-U Code	SP	Weight [kg]	
10	16	3/8	161 300 258	0	0.028	
15	20	1/2	161 300 308	0	0.015	
20	25	3/4	161 300 358	0	0.022	
25	32	1	161 300 408	0	0.039	
32	40	1 1/4	161 300 458	0	0.047	
40	50	1 1/2	161 300 508	0	0.085	
50	63	2	161 300 558	0	0.132	



PF 2 31 160 999



Spare parts angle seat valve type 303/304 O-ring (4)

d [mm]	Size [inch]	DN [mm]	EPDM Code	PF	SP	Weight [kg]	
16	3/8	10	748 410 059	2 31 800 999	0	0.002	
20	1/2	15	748 410 106	2 31 800 999	0	0.002	
25	3/4	20	748 410 001	2 30 162 007	100	0.002	
32	1	25	748 410 007	2 30 162 006	0	0.004	
40	1 1/4	32	748 410 002	2 30 162 007	100	0.003	
50	1 1/2	40	748 410 102	2 31 161 999	0	0.005	
63	2	50	748 410 101	2 31 800 999	0	0.001	
75	2 1/2	65	748 410 119	2 31 161 999	0	0.005	
90	3	80	748 410 014	2 30 162 007	500	0.001	

table continued next page

FPM Code	PF	SP	Weight [kg]	
749 410 059	2 31 800 999	0	0.001	
749 410 106	2 31 800 999	0	0.001	
749 410 001	2 30 162 009	100	0.002	
749 410 007	2 30 162 008	100	0.002	
749 410 002	2 30 162 009	100	0.003	
749 410 102	2 31 161 999	0	0.004	
749 410 101	2 31 800 999	0	0.004	
749 410 119	2 31 161 999	0	0.010	
749 410 014	2 30 162 009	100	0.012	



Spare parts angle seat valve type 303/304 Piston (3)

DN [mm]	d [mm]	Size [inch]	PVC-U Code	SP	Weight [kg]	
10	16	3/8	161 480 682	0	0.009	
15	20	1/2	161 480 683	0	0.015	
20	25	3/4	161 480 684	0	0.027	
25	32	1	161 480 685	0	0.061	
32	40	1 1/4	161 480 686	0	0.097	
40	50	1 1/2	161 480 687	0	0.193	
50	63	2	161 480 688	0	0.352	
65	75	2 1/2	161 480 689	0	0.140	
80	90	3	161 480 690	0	0.735	

PF 2 31 161 999

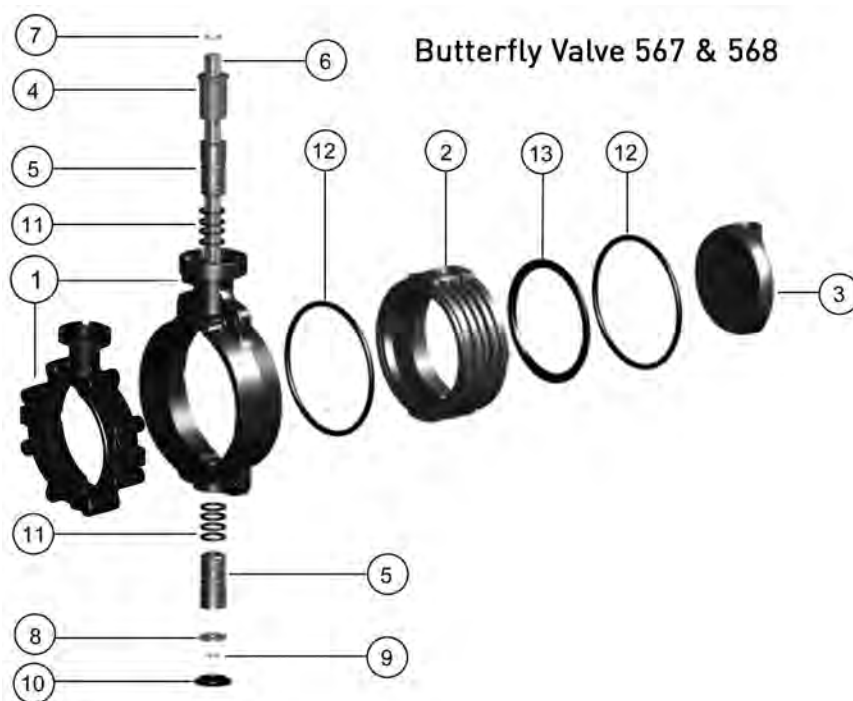


Spare parts angle seat valve type 303/304 Flat gasket (2)

DN [mm]	Size [inch]	d [mm]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
10	3/8	16	161 480 664	0	0.005	161 480 673	0	0.004	
15	1/2	20	161 480 665	0	0.003	161 480 674	1	0.001	
20	3/4	25	161 480 666	0	0.003	161 480 675	1	0.005	
25	1	32	161 480 667	0	0.001	161 480 676	0	0.001	
32	1 1/4	40	161 480 668	0	0.003	161 480 677	1	0.004	
40	1 1/2	50	161 480 669	0	0.004	161 480 678	0	0.006	
50	2	63	161 480 670	0	0.001	161 480 679	0	0.008	
65	2 1/2	75	161 480 671	0	0.020	161 480 680	0	0.015	
80	3	90	161 480 672	0	0.030	161 480 681	1	0.020	

PF 2 31 161 999

Spare parts butterfly valve type 567/568



Spare parts butterfly valve type 567/568 Inner body

Model:

- Inner body consisting of: inner body (2) and profile seal (13)

d [mm]	Size [inch]	DN [mm]	PVC-U EPDM Code	PF	PVC-U FPM Code	PF	
63	2	50	161 486 861	2 31 567 998	161 486 873	2 31 567 998	
75	2 ½	65	161 486 862	2 31 567 998	161 486 874	2 31 567 998	
90	3	80	161 486 863	2 31 567 998	161 486 875	2 31 567 998	
110	4	100	161 486 864	2 31 567 998	161 486 876	2 31 567 998	
140	5	125	161 486 865	2 31 567 998	161 486 877	2 31 567 998	
160	6	150	161 486 866	2 31 567 998	161 486 878	2 31 567 998	
225	8	200	161 486 867	2 31 567 998	161 486 879	2 31 567 998	
280	10	250	161 486 868	2 31 567 999	161 486 880	2 31 567 998	
315	12	300	161 486 869	2 31 567 999	161 486 881	2 31 567 998	

d [mm]	PVC-C EPDM Code	PF	PVC-C FPM Code	PF	ABS EPDM Code	PF	
63	163 481 591	2 32 693 998	163 481 603	2 32 693 998	169 481 067	2 33 564 998	
75	163 481 592	2 32 693 998	163 481 604	2 32 693 998	169 481 068	2 33 564 998	
90	163 481 593	2 32 693 998	163 481 605	2 32 693 998	169 481 069	2 33 564 998	
110	163 481 594	2 32 693 998	163 481 606	2 32 693 998	169 481 070	2 33 564 998	
140	163 481 595	2 32 693 998	163 481 607	2 32 693 998	169 481 071	2 33 564 998	
160	163 481 596	2 32 693 998	163 481 608	2 32 693 998	169 481 072	2 33 564 998	
225	163 481 597	2 32 693 998	163 481 609	2 32 693 998	169 481 073	2 33 564 998	
280							
315							

d [mm]	PP-H EPDM Code	PF	PP-H FPM Code	PF	PVDF FPM Code	PF	
63	167 484 271	2 34 637 998	167 484 286	2 34 637 998	175 483 413	2 35 566 999	
75	167 484 272	2 34 637 998	167 484 287	2 34 637 998	175 483 414	2 35 566 999	
90	167 484 273	2 34 637 998	167 484 288	2 34 637 998	175 483 415	2 35 566 998	
110	167 484 274	2 34 637 998	167 484 289	2 34 637 998	175 483 416	2 35 566 998	
140	167 484 275	2 34 637 998	167 484 290	2 34 637 998	175 483 417	2 35 566 998	

table continued next page

d [mm]	PP-H EPDM Code	PF	PP-H FPM Code	PF	PVDF FPM Code	PF	
160	167 484 276	2 34 637 998	167 484 291	2 34 637 998	175 483 418	2 35 566 998	
225	167 484 277	2 34 637 998	167 484 292	2 34 637 998	175 483 419	2 35 566 998	
280	167 484 278	2 31 567 999	167 484 293	2 31 567 999	175 483 420	2 31 567 999	
315	167 484 279	2 31 567 999	167 484 294	2 31 567 999	175 483 421	2 31 567 999	
d [mm]	PVDF PTFE Code	PF					
63	175 483 752	2 34 637 999					
75	175 483 753	2 35 767 999					
90	175 483 754	2 35 767 999					
110	175 483 755	2 35 767 999					
140	175 483 756	2 34 637 999					
160	175 483 757	2 35 767 999					
225	175 483 758	2 35 767 999					
280	175 483 759	2 35 767 999					
315	175 483 760	2 31 567 999					



Spare parts butterfly valve type 567/568 Disc (3)

d [mm]	Size [inch]	DN [mm]	PVC-U Code	PF	PVC-C Code	PF	
63	2	50	161 490 889	2 31 567 999	163 481 451	2 32 693 999	
75	2 ½	65	161 490 890	2 31 567 999	163 481 452	2 32 693 999	
90	3	80	161 490 891	2 31 567 999	163 481 453	2 32 693 999	
110	4	100	161 490 892	2 31 567 999	163 481 454	2 32 693 999	
140	5	125	161 490 893	2 31 567 999	163 481 455	2 32 693 999	
160	6	150	161 490 894	2 31 567 999	163 481 456	2 32 693 999	
225	8	200	161 490 895	2 31 567 999	163 481 457	2 32 693 999	
280	10	250	161 490 896	2 31 567 999			
315	12	300	161 490 897	2 31 567 999			
355	14	350		2 31 567 998			
400	16	400		2 31 567 998			
450	18	450		2 31 567 998			
500	20	500		2 31 567 998			
630	24	600		2 31 567 998			
d [mm]	ABS Code	PF	PP-H Code	PF	PVDF Code	PF	
63	169 480 951	2 33 564 999	167 483 226	2 34 637 999	175 483 251	2 35 566 999	
75	169 480 952	2 33 564 999	167 483 227	2 34 637 999	175 483 252	2 35 566 999	
90	169 480 953	2 33 564 999	167 483 228	2 34 637 999	175 483 253	2 35 566 999	
110	169 480 954	2 33 564 999	167 483 229	2 34 637 999	175 483 254	2 35 566 999	
140	169 480 955	2 33 564 999	167 483 230	2 34 637 999	175 483 255	2 35 566 999	
160	169 480 956	2 33 564 999	167 483 231	2 34 637 999	175 483 256	2 35 566 999	
225	169 480 957	2 33 564 999	167 483 232	2 34 637 999	175 483 257	2 35 566 999	
280			167 483 233	2 34 637 999	175 483 258	2 35 566 999	
315			167 483 234	2 34 637 999	175 483 259	2 35 566 999	
355			167 483 235	2 34 637 999			
400			167 483 236	2 34 637 999			
450			167 483 237	2 31 567 999			
500			167 483 238	2 31 567 999			
630			167 483 239	2 34 637 999			



Spare parts butterfly valve type 567/568 Bearing bush (5, 11)

Model:

- included in delivery 2 pcs.
- With O-ring
- Bearing bushes in PP-H are used in PP-H and ABS butterfly valves

d [mm]	Size [inch]	DN [mm]	PVC-U EPDM Code	PF	PVC-U FPM Code	PF	
63	2	50	161 486 886	2 31 567 998	161 486 892	2 31 567 998	
75	2 ½	65	161 486 886	2 31 567 998	161 486 892	2 31 567 998	
90	3	80	161 486 886	2 31 567 998	161 486 892	2 31 567 998	
110	4	100	161 486 887	2 31 567 998	161 486 893	2 31 567 998	
140	5	125	161 486 887	2 31 567 998	161 486 893	2 31 567 998	
160	6	150	161 486 888	2 31 567 998	161 486 894	2 31 567 998	
225	8	200	161 486 888	2 31 567 998	161 486 894	2 31 567 998	
280	10	250	161 486 889	2 31 567 998	161 486 895	2 31 567 998	
315	12	300	161 486 889	2 31 567 998	161 486 895	2 31 567 998	
355	14	350					
400	16	400					
450	18	450					
500	20	500					
630	24	600					

d [mm]	PVC-C EPDM Code	PF	PVC-C FPM Code	PF	PP-H EPDM Code	PF	
63	163 481 576	2 32 693 998	163 481 582	2 32 693 998	167 484 259	2 34 637 998	
75	163 481 576	2 32 693 998	163 481 582	2 32 693 998	167 484 259	2 34 637 998	
90	163 481 576	2 32 693 998	163 481 582	2 32 693 998	167 484 259	2 34 637 998	
110	163 481 577	2 32 693 998	163 481 583	2 32 693 998	167 484 260	2 34 637 998	
140	163 481 577	2 32 693 998	163 481 583	2 32 693 998	167 484 260	2 34 637 998	
160	163 481 578	2 32 693 998	163 481 584	2 32 693 998	167 484 261	2 34 637 998	
225	163 481 578	2 32 693 998	163 481 584	2 32 693 998	167 484 261	2 34 637 998	
280					167 484 262	2 31 567 998	
315					167 484 262	2 31 567 998	
355					167 484 263	2 31 567 999	
400					167 484 264	2 31 567 999	
450					167 484 280	2 31 567 999	
500					167 484 281	2 31 567 999	
630					167 484 282	2 31 567 999	

d [mm]	PP-H FPM Code	PF	PVDF FPM Code	PF	
63	167 484 265	2 34 637 998	175 483 426	2 35 566 998	
75	167 484 265	2 34 637 998	175 483 426	2 35 566 998	
90	167 484 265	2 34 637 998	175 483 426	2 35 566 998	
110	167 484 266	2 34 637 998	175 483 427	2 35 566 998	
140	167 484 266	2 34 637 998	175 483 427	2 35 566 998	
160	167 484 267	2 34 637 998	175 483 428	2 35 566 998	
225	167 484 267	2 34 637 998	175 483 428	2 35 566 998	
280	167 484 268	2 31 567 998	175 483 429	2 31 567 998	
315	167 484 268	2 31 567 998	175 483 429	2 31 567 998	
355	167 484 269	2 31 567 999			
400	167 484 270	2 31 567 999			
450	167 484 283	2 31 567 999			
500	167 484 284	2 31 567 999			
630	167 484 285	2 31 567 999			



Spare parts butterfly valve type 567/568 Shaft set

Model:

- Shaft set consisting of: shaft chrom steel 1.4301 AISI 304 (6), retention ring (7, 9) and washer (8)

d [mm]	Size [inch]	DN [mm]	Code	PF	
63	2	50	161 486 899	2 31 567 998	
75	2 ½	65	161 486 900	2 31 567 998	
90	3	80	161 486 901	2 31 567 998	
110	4	100	161 486 902	2 31 567 998	
140	5	125	161 486 903	2 31 567 998	
160	6	150	161 486 904	2 31 567 998	
225	8	200	161 486 905	2 31 567 998	
280	10	250	161 486 906	2 31 567 998	
315	12	300	161 486 907	2 31 567 998	
355	14	350	161 486 908	2 31 567 999	
400	16	400	161 486 909	2 31 567 999	
450	18	450	161 486 926	2 31 567 999	
500	20	500	161 486 927	2 31 567 999	
630	24	600	161 486 928	2 31 567 999	



Spare parts butterfly valve type 567/568 Hand lever

d [mm]	Size [inch]	DN [mm]	with index plate Code	PF	with fine adjustment Code	PF	
63	2	50	161 486 690	2 31 567 998	161 486 325	2 31 567 998	
75	2 ½	65	161 486 690	2 31 567 998	161 486 325	2 31 567 998	
90	3	80	161 486 690	2 31 567 998	161 486 325	2 31 567 998	
110	4	100	161 486 691	2 31 567 998	161 486 326	2 31 567 998	
140	5	125	161 486 691	2 31 567 998	161 486 326	2 31 567 998	
160	6	150	161 486 694	2 31 567 998	161 486 327	2 31 567 998	
225	8	200	161 486 695	2 31 567 998	161 486 328	2 31 567 998	
280	10	250	161 486 697	2 31 567 998			
315	12	300	161 486 697	2 31 567 998			



Reduction gear with handwheel

d [mm]	Size [inch]	DN [mm]	Code	
75	2 ½	65	161 482 408	
90	3	80	161 482 408	
110	4	100	161 482 408	
125	4 ½	125	161 482 408	
160	6	150	161 482 408	
225	8	200	161 482 408	
280	10	250	161 483 462	
315	12	300	161 483 462	

PF 2 31 159 998

Spare parts butterfly valve type 567/568 Snap ring DN350-600

- For fixation of profile seal in body

d [mm]	Size [inch]	DN [mm]	PP-H Code	
355	14	350	167 484 295	
400	16	400	167 484 296	
450	18	450	167 484 297	
500	20	500	167 484 298	
630	24	600	167 484 299	

PF 2 31 567 998

Spare parts butterfly valve type 567/568 Profile seal (13) DN350-600

d [mm]	Size [inch]	DN [mm]	EPDM Code	FPM Code	
355	14	350	748 440 018	749 440 028	
400	16	400	748 440 019	749 440 029	
450	18	450	748 440 020	749 440 030	
500	20	500	748 440 021	749 440 031	
630	24	600	748 440 022	749 440 032	

PF 2 31 567 999

Spare parts ventilating- and bleed valves

Spare parts ventilating- and bleed valve type 591/595 Handle for dismantling



DN10/15 - 50



DN [mm]	Size [inch]	d [mm]	red Code	SP	Weight [kg]	black Code	SP	Weight [kg]	
10	3/8	16	167 484 088	0	0.012	167 484 076	0	0.012	
15	1/2	20	167 484 088	0	0.012	167 484 076	0	0.012	
20	3/4	25	167 484 089	0	0.022	167 484 077	0	0.022	
25	1	32	167 484 090	0	0.022	167 484 078	0	0.022	
32	1 1/4	40	167 484 091	0	0.042	167 484 079	0	0.042	
40	1 1/2	50	167 484 092	0	0.042	167 484 080	0	0.042	
50	2	63	167 484 093	0	0.064	167 484 081	0	0.059	
65	2 1/2	75	167 484 094	0	0.250	167 484 082	0	0.250	
80	3	90	167 484 095	1	0.250	167 484 083	0	0.250	
100	4	110	167 484 096	1	0.298	167 484 084	0	0.298	

PF 2 31 798 999



Spare parts ventilating- and bleed valve type 591/595 Spring (8)

Model:

- Material: V2A, code: 1.4310, HALAR® coated



d [mm]	Size [inch]	DN [mm]	NIMONIC 90 HALAR coated Code	SP	Weight [kg]	
16	3/8	10	161 485 112	1	0.001	
20	1/2	15	161 485 112	1	0.001	
25	3/4	20	161 485 112	1	0.001	
32	1	25	161 485 113	1	0.001	
40	1 1/4	32	161 485 114	1	0.002	
50	1 1/2	40	161 485 115	1	0.002	
63	2	50	161 485 116	1	0.003	
75	2 1/2	65	161 485 117	1	0.003	
90	3	80	161 485 118	1	0.004	
110	4	100	161 485 119	1	0.004	

PF 2 31 986 999



Spare parts ventilating- and bleed valve type 591/595 Face seal (3)



DN [mm]	d [mm]	Size [inch]	EPDM Code	PF	SP	Weight [kg]	
10	16	3/8	748 410 059	2 31 800 999	0	0.002	
15	20	1/2	748 410 059	2 31 800 999	0	0.002	
20	25	3/4	748 410 106	2 31 800 999	0	0.002	
25	32	1	748 410 151	2 31 800 999	0	0.001	
32	40	1 1/4	748 410 062	2 31 800 999	0	0.002	
40	50	1 1/2	748 410 003	2 30 162 006	100	0.004	

table continued next page

DN [mm]	d [mm]	Size [inch]	EPDM Code	PF	SP	Weight [kg]	
50	63	2	748 410 231	2 31 800 999	1	0.005	
65	75	2 ½	748 410 119	2 31 161 999	0	0.005	
80	90	3	748 410 023	2 31 800 999	0	0.010	
100	110	4	748 410 254	2 31 800 999	0	0.020	

FPM Code	PF	SP	Weight [kg]	
749 410 059	2 31 800 999	0	0.001	
749 410 059	2 31 800 999	0	0.001	
749 410 106	2 31 800 999	0	0.001	
749 410 151	2 31 800 999	0	0.002	
749 410 062	2 31 800 999	0	0.002	
749 410 003	2 30 162 008	0	0.001	
749 410 231	2 31 800 999	0	0.008	
749 410 119	2 31 161 999	0	0.010	
749 410 023	2 31 800 999	0	0.012	
749 410 254	2 31 800 999	0	0.030	



Spare parts ventilating- and bleed valve type 591/595 Seal set

Model:

- Seal set consisting of: profile seal ring (5) and face seal (3)



DN [mm]	Size [inch]	d [mm]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
10	¾	16	161 485 241	1	0.010	161 485 251	1	0.009	
15	½	20	161 485 241	1	0.010	161 485 251	1	0.009	
20	¾	25	161 485 242	1	0.007	161 485 252	1	0.010	
25	1	32	161 485 243	1	0.010	161 485 253	1	0.015	
32	1 ¼	40	161 485 244	1	0.130	161 485 254	1	0.020	
40	1 ½	50	161 485 245	1	0.220	161 485 255	1	0.039	
50	2	63	161 485 246	1	0.047	161 485 256	1	0.052	
65	2 ½	75	161 485 247	1	0.074	161 485 257	1	0.128	
80	3	90	161 485 248	1	0.111	161 485 258	1	0.184	
100	4	110	161 485 249	1	0.188	161 485 259	1	0.318	

PF 2 31 986 999



Spare parts ventilating- and bleed valve type 591/595 Protective cap (10)

Model:

- Protects the piping system from dirt particles out of the ambient airCan also be used as tool for opening and closing the valve union bushing



Size [inch]	d [mm]	DN [mm]	PP-GF Code	SP	Weight [kg]	
¾	16	10	167 485 361	0	0.017	
½	20	15	167 485 361	0	0.017	
¾	25	20	167 485 362	0	0.023	
1	32	25	167 485 363	0	0.034	
1 ¼	40	32	167 485 364	0	0.052	
1 ½	50	40	167 485 365	0	0.069	
2	63	50	167 485 366	0	0.103	

PF 2 34 989 999



PF 2 31 986 999

Spare parts ventilating- and bleed valve type 591/595 Profile seal ring (5)

Size [inch]	DN [mm]	d [mm]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
3/8	10	16	748 436 001	0	0.003	749 436 001	0	0.005
1/2	15	20	748 436 001	0	0.003	749 436 001	0	0.005
3/4	20	25	748 436 002	0	0.003	749 436 002	0	0.006
1	25	32	748 436 003	0	0.006	749 436 003	0	0.011
1 1/4	32	40	748 436 004	0	0.009	749 436 004	0	0.016
1 1/2	40	50	748 436 005	0	0.014	749 436 005	0	0.025
2	50	63	748 436 006	0	0.027	749 436 006	0	0.048
2 1/2	65	75	748 436 007	0	0.069	749 436 007	0	0.121
3	80	90	748 436 008	0	0.101	749 436 008	0	0.177
4	100	110	748 436 009	0	0.149	749 436 009	0	0.261



Spare parts ventilating- and bleed valve type 591/595 Floater (7)

Model:

- For type 591

d [mm]	Size [inch]	DN [mm]	PP-H Code	PF	SP	Weight [kg]
16	3/8	10	167 485 151	2 34 989 999	0	0.003
20	1/2	15	167 485 151	2 34 989 999	0	0.003
25	3/4	20	167 485 152	2 34 989 999	0	0.006
32	1	25	167 485 153	2 34 989 999	0	0.012
40	1 1/4	32	167 485 154	2 34 989 999	0	0.024
50	1 1/2	40	167 485 155	2 34 989 999	0	0.044
63	2	50	167 485 156	2 34 989 999	0	0.069
75	2 1/2	65	167 485 157	2 34 989 999	0	0.152
90	3	80	167 485 158	2 34 989 999	0	0.265
110	4	100	167 485 159	2 34 989 999	0	0.485

PVDF Code	PF	SP	Weight [kg]
175 484 161	2 35 990 999	0	0.005
175 484 161	2 35 990 999	0	0.005
175 484 162	2 35 990 999	0	0.008
175 484 163	2 35 990 999	0	0.016
175 484 164	2 35 990 999	0	0.017
175 484 165	2 35 990 999	0	0.024
175 484 166	2 35 990 999	0	0.039
175 484 167	2 35 990 999	0	0.098
175 484 168	2 35 990 999	0	0.162
175 484 169	2 35 990 999	0	0.325



Spare parts ventilating- and bleed valve type 591/595 Central part with spring

Model:

- Central body consisting of: housing (9), union bush (4), support ring (6), floater (7), spring Nimonic 90 Halar coated (8), profile seal ring (5) and face seal (3)

d [mm]	Size [inch]	DN [mm]	PVC-U EPDM Code	PF	SP	Weight [kg]
16	3/8	10	161 485 281	2 31 986 999	1	0.070
20	1/2	15	161 485 281	2 31 986 999	1	0.070
25	3/4	20	161 485 282	2 31 986 999	1	0.170
32	1	25	161 485 283	2 31 986 999	1	0.160
40	1 1/4	32	161 485 284	2 31 986 999	1	0.270
50	1 1/2	40	161 485 285	2 31 986 999	1	0.400

table continued next page

d [mm]	Size [inch]	DN [mm]	PVC-U EPDM Code	PF	SP	Weight [kg]				
63	2	50	161 485 286	2 31 986 999	1	0.710				
75	2 ½	65	161 485 287	2 31 986 999	1	1.580				
90	3	80	161 485 288	2 31 986 999	1	2.520				
110	4	100	161 485 289	2 31 986 999	1	4.140				
PVC-U FPM Code		PF	SP	Weight [kg]	PVC-C EPDM Code		PF	SP	Weight [kg]	
161 485 291		2 31 986 999	1	0.070	163 485 281		2 32 987 999	1	0.070	
161 485 291		2 31 986 999	1	0.070	163 485 281		2 32 987 999	1	0.070	
161 485 292		2 31 986 999	1	0.190	163 485 282		2 32 987 999	1	0.190	
161 485 293		2 31 986 999	1	0.160	163 485 283		2 32 987 999	1	0.170	
161 485 294		2 31 986 999	1	0.270	163 485 284		2 32 987 999	1	0.290	
161 485 295		2 31 986 999	1	0.400	163 485 285		2 32 987 999	1	0.440	
161 485 296		2 31 986 999	1	0.720	163 485 286		2 32 987 999	1	0.780	
161 485 297		2 31 986 999	1	1.590	163 485 287		2 32 987 999	1	1.730	
161 485 298		2 31 986 999	1	2.550	163 485 288		2 32 987 999	1	2.760	
161 485 299		2 31 986 999	1	4.180	163 485 289		2 32 987 999	1	4.530	
PVC-C FPM Code		PF	SP	Weight [kg]	ABS EPDM Code		PF	SP	Weight [kg]	
163 485 291		2 32 987 999	1	0.070	169 485 281		2 33 988 999	1	0.050	
163 485 291		2 32 987 999	1	0.070	169 485 281		2 33 988 999	1	0.050	
163 485 292		2 32 987 999	1	0.210	169 485 282		2 33 988 999	1	0.140	
163 485 293		2 32 987 999	1	0.170	169 485 283		2 33 988 999	1	0.130	
163 485 294		2 32 987 999	1	0.290	169 485 284		2 33 988 999	1	0.220	
163 485 295		2 32 987 999	1	0.440	169 485 285		2 33 988 999	1	0.330	
163 485 296		2 32 987 999	1	0.780	169 485 286		2 33 988 999	1	0.590	
163 485 297		2 32 987 999	1	1.740	169 485 287		2 33 988 999	1	1.310	
163 485 298		2 32 987 999	1	2.790	169 485 288		2 33 988 999	1	2.100	
163 485 299		2 32 987 999	1	4.580	169 485 289		2 33 988 999	1	3.450	
PP-H EPDM Code		PF	SP	Weight [kg]	PP-H FPM Code		PF	SP	Weight [kg]	
167 485 281		2 34 989 999	1	0.040	167 485 291		2 34 989 999	1	0.040	
167 485 281		2 34 989 999	1	0.040	167 485 291		2 34 989 999	1	0.040	
167 485 282		2 34 989 999	1	0.100	167 485 292		2 34 989 999	1	0.090	
167 485 283		2 34 989 999	1	0.090	167 485 293		2 34 989 999	1	0.090	
167 485 284		2 34 989 999	1	0.150	167 485 294		2 34 989 999	1	0.150	
167 485 285		2 34 989 999	1	0.220	167 485 295		2 34 989 999	1	0.220	
167 485 286		2 34 989 999	1	0.390	167 485 296		2 34 989 999	1	0.390	
167 485 287		2 34 989 999	1	0.880	167 485 297		2 34 989 999	1	0.870	
167 485 288		2 34 989 999	1	1.400	167 485 298		2 34 989 999	1	1.390	
167 485 289		2 34 989 999	1	2.300	167 485 299		2 34 989 999	1	2.270	
PVDF FPM Code		PF	SP	Weight [kg]						
175 485 291		2 35 990 999	1	0.050						
175 485 291		2 35 990 999	1	0.050						
175 485 292		2 35 990 999	1	0.130						
175 485 293		2 35 990 999	1	0.110						
175 485 294		2 35 990 999	1	0.190						
175 485 295		2 35 990 999	1	0.280						
175 485 296		2 35 990 999	1	0.510						
175 485 297		2 35 990 999	1	1.130						
175 485 298		2 35 990 999	1	1.800						
175 485 299		2 35 990 999	1	2.960						



Spare parts ventilating- and bleed valve type 591/595 Central part without spring

Model:

- Central body consisting of: housing (9), union bush (4), support ring (6), floater PP-H/ PVDF (7), profile seal ring (5) and face seal (3)

Size [inch]	DN [mm]	d [mm]	PVC-U EPDM Code	PF	SP	Weight [kg]	
3/8	10	16	161 485 261	2 31 986 999	1	0.070	
1/2	15	20	161 485 261	2 31 986 999	1	0.070	
3/4	20	25	161 485 262	2 31 986 999	1	0.170	
1	25	32	161 485 263	2 31 986 999	1	0.160	
1 1/4	32	40	161 485 264	2 31 986 999	1	0.270	
1 1/2	40	50	161 485 265	2 31 986 999	1	0.400	
2	50	63	161 485 266	2 31 986 999	1	0.710	
2 1/2	65	75	161 485 267	2 31 986 999	1	1.580	
3	80	90	161 485 268	2 31 986 999	1	2.520	
4	100	110	161 485 269	2 31 986 999	1	4.140	

PVC-U FPM Code	PF	SP	Weight [kg]	PVC-C EPDM Code	PF	SP	Weight [kg]	
161 485 271	2 31 986 999	1	0.070	163 485 261	2 32 987 999	1	0.070	
161 485 271	2 31 986 999	1	0.070	163 485 261	2 32 987 999	1	0.070	
161 485 272	2 31 986 999	1	0.190	163 485 262	2 32 987 999	1	0.190	
161 485 273	2 31 986 999	1	0.160	163 485 263	2 32 987 999	1	0.170	
161 485 274	2 31 986 999	1	0.270	163 485 264	2 32 987 999	1	0.290	
161 485 275	2 31 986 999	1	0.400	163 485 265	2 32 987 999	1	0.440	
161 485 276	2 31 986 999	1	0.720	163 485 266	2 32 987 999	1	0.780	
161 485 277	2 31 986 999	1	1.590	163 485 267	2 32 987 999	1	1.730	
161 485 278	2 31 986 999	1	2.550	163 485 268	2 32 987 999	1	2.760	
161 485 279	2 31 986 999	1	4.180	163 485 269	2 32 987 999	1	4.530	

PVC-C FPM Code	PF	SP	Weight [kg]	ABS EPDM Code	PF	SP	Weight [kg]	
163 485 271	2 32 987 999	1	0.070	169 485 261	2 33 988 999	1	0.050	
163 485 271	2 32 987 999	1	0.070	169 485 261	2 33 988 999	1	0.050	
163 485 272	2 32 987 999	1	0.210	169 485 262	2 33 988 999	1	0.130	
163 485 273	2 32 987 999	1	0.170	169 485 263	2 33 988 999	1	0.120	
163 485 274	2 32 987 999	1	0.290	169 485 264	2 33 988 999	1	0.200	
163 485 275	2 32 987 999	1	0.440	169 485 265	2 33 988 999	1	0.300	
163 485 276	2 32 987 999	1	0.780	169 485 266	2 33 988 999	1	0.540	
163 485 277	2 32 987 999	1	1.740	169 485 267	2 33 988 999	1	1.200	
163 485 278	2 32 987 999	1	2.790	169 485 268	2 33 988 999	1	1.920	
163 485 279	2 32 987 999	1	4.580	169 485 269	2 33 988 999	1	3.150	

PP-H EPDM Code	PF	SP	Weight [kg]	PP-H FPM Code	PF	SP	Weight [kg]	
167 485 261	2 34 989 999	1	0.040	167 485 271	2 34 989 999	1	0.040	
167 485 261	2 34 989 999	1	0.040	167 485 271	2 34 989 999	1	0.040	
167 485 262	2 34 989 999	1	0.110	167 485 272	2 34 989 999	1	0.120	
167 485 263	2 34 989 999	1	0.100	167 485 273	2 34 989 999	1	0.100	
167 485 264	2 34 989 999	1	0.180	167 485 274	2 34 989 999	1	0.180	
167 485 265	2 34 989 999	1	0.260	167 485 275	2 34 989 999	1	0.260	
167 485 266	2 34 989 999	1	0.470	167 485 276	2 34 989 999	1	0.470	
167 485 267	2 34 989 999	1	1.040	167 485 277	2 34 989 999	1	1.050	
167 485 268	2 34 989 999	1	1.660	167 485 278	2 34 989 999	1	1.680	
167 485 269	2 34 989 999	1	2.730	167 485 279	2 34 989 999	1	2.760	

PVDF FPM Code	PF	SP	Weight [kg]	
175 485 271	2 35 990 999	1	0.080	
175 485 271	2 35 990 999	1	0.080	
175 485 272	2 35 990 999	1	0.240	
175 485 273	2 35 990 999	1	0.200	
175 485 274	2 35 990 999	1	0.350	
175 485 275	2 35 990 999	1	0.520	

table continued next page

PVDF FPM Code	PF	SP	Weight [kg]	
175 485 276	2 35 990 999	1	0.920	
175 485 277	2 35 990 999	1	2.060	
175 485 278	2 35 990 999	1	3.290	
175 485 279	2 35 990 999	1	5.390	

Spare parts diaphragm valves new generation



Spare parts for automatic valves Diastar Six/Ten/Sixteen Actuators

d [mm]	Size [inch]	DN [mm]	Diastar Six Code	Diastar Ten Code	Diastar Ten + FC Code	Diastar Sixteen FC Code	Diastar Ten FO Code	
20	½	15	198 151 762	198 151 772	198 153 062	198 151 782	198 151 792	
25	¾	20	198 151 763	198 151 773	198 153 063	198 151 783	198 151 793	
32	1	25	198 151 764	198 151 774	198 153 064	198 151 784	198 151 794	
40	1 ¼	32	198 151 765	198 151 775	198 153 065	198 151 785	198 151 795	
50	1 ½	40	198 151 766	198 151 776	198 153 066	198 151 786	198 151 796	
63	2	50	198 151 767	198 151 777	198 153 067	198 151 787	198 151 797	

d [mm]	Size [inch]	DN [mm]	Diastar Ten DA Code	
20	½	15	198 151 802	
25	¾	20	198 151 803	
32	1	25	198 151 804	
40	1 ¼	32	198 151 805	
50	1 ½	40	198 151 806	
63	2	50	198 151 807	

PF 3 39 772 998



Spare parts for automatic valves Diastar Six/Ten/Sixteen Seal set

Model:

- Spindle seal and piston seal

Size [mm]	Diastar Six/Ten/Sixteen Code	PF	SP	Weight [kg]	Only for Diastar Six DN40/DN50 Code	PF	Weight [kg]	
Gr. 1	198 000 881	3 39 772 998	1	0.006	198 000 886	3 39 772 998	0.006	
Gr. 2	198 000 882	3 39 772 998	1	0.008				
Gr. 3	198 000 883	3 39 772 998	1	0.010				
Gr. 4	198 000 884	3 39 772 998	1	0.010				
Gr. 5	198 000 885	3 39 772 998	1	0.072				





Spare parts for automatic valves Diastar Six/Ten/Sixteen Compressor set

Model:

- Incl. diaphragm holder



Inch [inch]	DN [mm]	d [mm]	Code	SP	Weight [kg]	
1/2	15	20	198 000 872	1	0.018	
3/4	20	25	198 000 873	1	0.035	
1	25	32	198 000 874	1	0.073	
1 1/4	32	40	198 000 875	1	0.084	
1 1/2	40	50	198 000 876	1	0.122	
2	50	63	198 000 877	1	0.146	

PF 3 39 772 998



Spare parts for automatic valves Diastar Six/Ten/Sixteen Indicator cap



Size [mm]	Code	SP	Weight [kg]	
1-2	198 806 639	0	0.002	
3-5	198 806 640	0	0.004	

PF 3 46 254 999



Spare parts for hand-operated valves Type 514/515/517/519 Bonnet complete



DN [mm]	d [mm]	Size [inch]	Standard configuration PN10 Code	SP	Weight [kg]	For pressure tight housing PN10 Code	SP	Weight [kg]	
15	20	1/2	198 151 742	1	0.218	198 151 752	1	0.321	
20	25	3/4	198 151 743	1	0.253	198 151 753	1	0.356	
25	32	1	198 151 744	1	0.766	198 151 754	1	0.870	
32	40	1 1/4	198 151 745	1	0.819	198 151 755	1	0.923	
40	50	1 1/2	198 151 746	1	1.612	198 151 756	1	1.716	
50	63	2	198 151 747	1	1.825	198 151 757	1	1.929	

PF 2 31 780 998

Standard configuration PN16 Code	SP	Weight [kg]	For pressure tight housing PN16 Code	SP	Weight [kg]	
198 151 842	1	0.229	198 151 852	1	0.137	
198 151 843	1	0.271	198 151 853	1	0.177	
198 151 844	1	0.791	198 151 854	1	0.366	
198 151 845	1	0.856	198 151 855	1	0.390	
198 151 846	1	1.667	198 151 856	1	0.746	
198 151 847	1	1.933	198 151 857	1	1.016	



Spare parts for hand-operated valves Type 514/515/517/519 Spindle assembly

Model:

- Incl. position indicator and compressor

DN-DN [mm]	Code	SP	Weight [kg]	
15 - 20	198 204 327	1	0.049	
25 - 32	198 204 328	1	0.135	
40 - 50	198 204 329	1	0.251	

PF 2 31 780 998



Spare parts for hand-operated valves Type 514/515/517/519 Position indicator

DN [mm]	Size [inch]	d [mm]	Code	SP	Weight [kg]	
15	½	20	167 484 992	1	0.011	
20	¾	25	167 484 993	1	0.011	
25	1	32	167 484 994	1	0.013	
32	1 ¼	40	167 484 995	1	0.012	
40	1 ½	50	167 484 996	1	0.014	
50	2	63	167 484 997	1	0.015	

PF 2 31 780 998



Spare parts for hand-operated valves Type 514/515/517/519 Hand wheel

Model:

- Without position indicator

DN [mm]	Code	SP	Weight [kg]	
15 - 20	198 204 162	1	0.024	
25 - 32	198 204 164	1	0.056	
40 - 50	198 104 166	1	0.190	



PF 2 31 780 998

Spare parts diaphragm For type 514/515/517/519



DN [mm]	Size [inch]	d [mm]	NBR Code	SP	Weight [kg]	EPDM Code	SP	Weight [kg]	
15	½	20	745 500 012	1	0.010	748 500 012	1	0.008	
20	¾	25	745 500 013	1	0.014	748 500 013	1	0.012	
25	1	32	745 500 014	1	0.021	748 500 014	1	0.022	
32	1 ¼	40	745 500 015	1	0.031	748 500 015	1	0.030	
40	1 ½	50	745 500 016	1	0.049	748 500 016	1	0.046	
50	2	63	745 500 017	1	0.082	748 500 017	1	0.073	

FPM Code	SP	Weight [kg]	PTFE/EPDM Code	SP	Weight [kg]	PTFE/EPDM HP Code	SP	Weight [kg]	
749 500 012	1	0.013	747 502 012	1	0.020	747 502 032	1	0.020	
749 500 013	1	0.020	747 502 013	1	0.018	747 502 033	1	0.028	
749 500 014	1	0.035	747 502 014	1	0.033	747 502 034	1	0.040	
749 500 015	1	0.048	747 502 015	1	0.036	747 502 035	1	0.066	
749 500 016	1	0.075	747 502 016	1	0.085	747 502 036	1	0.085	
749 500 017	1	0.127	747 502 017	1	0.087	747 502 037	1	0.120	

PTFE/FPM Code	SP	Weight [kg]	
747 503 012	1	0.013	
747 503 013	1	0.021	
747 503 014	1	0.044	
747 503 015	1	0.045	
747 503 016	1	0.069	
747 503 017	4	0.118	

PF 2 31 780 997



Spare parts for valve body type 514 O-ring

DN [mm]	Size [inch]	d [mm]	EPDM Code	PF	SP	Weight [kg]	
15	½	20	748 410 006	2 30 162 006	0	0.001	
20	¾	25	748 410 007	2 30 162 006	0	0.004	
25	1	32	748 410 008	2 30 162 006	0	0.002	
32	1 ¼	40	748 410 009	2 30 162 006	0	0.001	
40	1 ½	50	748 410 010	2 30 162 006	0	0.001	
50	2	63	748 410 011	2 30 162 006	0	0.010	

table continued next page

FPM Code	PF	SP	Weight [kg]	FPM for PVDF standard Code	PF	SP	Weight [kg]
749 410 006	2 30 162 008	0	0.001	749 410 005	2 30 162 008	0	0.001
749 410 007	2 30 162 008	100	0.002	749 410 006	2 30 162 008	0	0.001
749 410 008	2 30 162 008	100	0.002	749 410 120	2 30 162 009	0	0.002
749 410 009	2 30 162 008	0	0.007	749 410 062	2 31 800 999	0	0.002
749 410 010	2 30 162 008	0	0.060	749 410 172	2 31 800 999	1	0.003
749 410 011	2 30 162 008	100	0.003	749 410 054	2 31 156 999	100	0.005

FPM for PVDF-HP Code	PF	SP	Weight [kg]
749 411 005	2 65 434 999	1	0.001
749 411 006	2 65 434 999	1	0.003
749 411 120	2 65 434 999	0	0.002
749 411 062	2 65 434 999	1	0.002
749 411 172	2 65 434 999	1	0.001
749 411 054	2 65 434 999	1	0.003



Spare parts for valve body type 514 Union nut

Size [inch]	DN [mm]	d [mm]	PVC-U Code	PF	SP	Weight [kg]
½	15	20	721 890 006	2 30 153 999	10	0.020
¾	20	25	721 890 007	2 30 153 999	10	0.020
1	25	32	721 890 008	2 30 153 999	10	0.030
1 ¼	32	40	721 890 009	2 30 153 999	10	0.049
1 ½	40	50	721 890 010	2 30 153 999	10	0.087
2	50	63	721 890 011	2 30 153 999	10	0.138

PVC-C Code	PF	SP	Weight [kg]	ABS Code	PF	SP	Weight [kg]
723 690 006	2 32 450 008	0	0.020	729 890 406	2 33 172 999	10	0.048
723 690 007	2 32 450 008	0	0.022	729 890 407	2 33 172 999	10	0.046
723 690 008	2 32 450 008	500	0.032	729 890 408	2 33 172 999	10	0.025
723 690 009	2 32 450 008	0	0.053	729 890 409	2 33 172 999	10	0.060
723 690 010	2 32 450 008	0	0.092	729 890 410	2 33 172 999	10	0.100
723 690 011	2 32 450 008	140	0.143	729 890 411	2 33 172 999	10	0.147

PP-H Code	PF	SP	Weight [kg]	PVDF Code	PF	SP	Weight [kg]
727 890 406	2 34 180 999	10	0.023	735 690 406	2 35 191 999	1	0.021
727 890 407	2 34 180 999	10	0.035	735 690 407	2 35 191 999	110	0.030
727 890 408	2 34 180 999	10	0.044	735 690 408	2 35 191 999	80	0.035
727 890 409	2 34 180 999	10	0.044	735 690 409	2 35 191 999	1	0.065
727 890 410	2 34 180 999	10	0.062	735 690 410	2 35 191 999	1	0.093
727 890 411	2 34 180 999	10	0.119	735 690 411	2 35 191 999	20	0.144



*

Spare parts for valve body type 514 Valve end with spigot

DN [mm]	Size [inch]	d [mm]	PVC-U Code	PF	SP	Weight [kg]
15	½	20	721 600 406	2 30 153 999	1500	0.009
20	¾	25	721 600 407	2 30 153 999	1500	0.022
25	1	32	721 600 408	2 30 153 999	1500	0.035
32	1 ¼	40	721 600 409	2 30 153 999	330	0.057
40	1 ½	50	721 600 410	2 30 153 999	1500	0.086
50	2	63	721 600 411	2 30 153 999	1500	0.153

table continued next page

PP-H SDR11 Code	PF	SP	Weight [kg]	PVDF Code	PF	SP	Weight [kg]
727 508 506	2 34 403 999	10	0.009	735 608 606	2 35 421 999	1	0.020
727 508 507	2 34 403 999	10	0.017	735 608 607	2 35 421 999	1	0.030
727 508 508	2 34 403 999	10	0.026	735 608 608	2 35 421 999	1	0.044
727 508 509	2 34 403 999	10	0.043	735 608 609	2 35 421 999	1	0.069
727 508 510	2 34 403 999	10	0.058	735 608 610	2 35 421 999	1	0.082
727 508 511	2 34 403 999	10	0.095	735 608 611	2 35 421 999	1	0.127
PE100 SDR11 Code	PF	SP	Weight [kg]	PE100 long Code	PF	SP	Weight [kg]
753 508 606	2 68 241 999	10	0.011	753 508 616	2 68 241 999	10	0.006
753 508 607	2 68 241 999	10	0.018	753 508 617	2 68 241 999	10	0.019
753 508 608	2 68 241 999	10	0.027	753 508 618	2 68 241 999	10	0.027
753 508 609	2 68 241 999	10	0.044	753 508 619	2 68 241 999	10	0.048
753 508 610	2 68 241 999	10	0.061	753 508 620	2 68 241 999	10	0.069
753 508 611	2 68 241 999	10	0.100	753 508 621	2 68 241 999	10	0.120



Spare parts for valve body type 514 Union end

Size [inch]	DN [mm]	d [mm]	PVC-U metric Code	PF	SP	Weight [kg]			
½	15	20	721 500 106	2 30 153 999	10	0.008			
¾	20	25	721 500 107	2 30 153 999	10	0.014			
1	25	32	721 500 108	2 30 153 999	10	0.020			
1 ¼	32	40	721 500 109	2 30 153 999	10	0.037			
1 ½	40	50	721 500 110	2 30 153 999	10	0.039			
2	50	63	721 500 111	2 30 153 999	10	0.072			
PVC-U JIS Code		PF	SP	Weight [kg]	PVC-U BS Code	PF	SP	Weight [kg]	
721 605 106		2 30 153 999	10	0.020	721 601 106	2 30 166 999	0	0.008	
721 605 107		2 30 153 999	10	0.014	721 601 107	2 30 166 999	10	0.013	
721 605 108		2 30 153 999	930	0.021	721 601 108	2 30 166 999	0	0.018	
721 605 109		2 30 153 999	10	0.043	721 601 109	2 30 166 999	500	0.033	
721 605 110		2 30 153 999	375	0.049	721 601 110	2 30 166 999	400	0.043	
721 605 111		2 30 153 999	200	0.092	721 601 111	2 30 166 999	170	0.077	
PVC-U ASTM Code		PF	SP	Weight [kg]	ABS metric Code	PF	SP	Weight [kg]	
721 602 006		2 30 166 999	0	0.029	729 800 106	2 33 198 999	10	0.007	
721 602 007		2 30 166 999	0	0.015	729 800 107	2 33 198 999	10	0.012	
721 602 008		2 30 166 999	10	0.023	729 800 108	2 33 198 999	10	0.016	
721 602 009		2 30 166 999	500	0.034	729 800 109	2 33 198 999	10	0.042	
721 602 010		2 30 166 999	0	0.047	729 800 110	2 33 198 999	10	0.045	
721 602 011		2 30 166 999	250	0.075	729 800 111	2 33 198 999	10	0.084	
PP-H metric Code		PF	SP	Weight [kg]	PVDF metric Code	PF	SP	Weight [kg]	
727 500 106		2 34 180 999	10	0.006	735 600 106	2 35 191 999	4	0.006	
727 500 107		2 34 180 999	10	0.011	735 600 107	2 35 191 999	4	0.022	
727 500 108		2 34 180 999	10	0.014	735 600 108	2 35 191 999	4	0.022	
727 500 109		2 34 180 999	10	0.025	735 600 109	2 35 191 999	4	0.055	
727 500 110		2 34 180 999	10	0.025	735 600 110	2 35 191 999	2	0.054	
727 500 111		2 34 180 999	10	0.043	735 600 111	2 35 191 999	2	0.079	

table continued next page

PVC-C metric Code	PF	SP	Weight [kg]	PVC-C ANSI Code	PF	SP	Weight [kg]	
723 800 106	2 32 450 008	10	0.010	723 602 006	2 32 450 032	0	0.013	
723 800 107	2 32 450 008	10	0.018	723 602 007	2 32 450 032	0	0.017	
723 800 108	2 32 450 008	10	0.023	723 602 008	2 32 450 032	0	0.024	
723 800 109	2 32 450 008	10	0.062	723 602 009	2 32 450 032	210	0.040	
723 800 110	2 32 450 008	10	0.064	723 602 010	2 32 450 032	0	0.048	
723 800 111	2 32 450 008	10	0.120	723 602 011	2 32 450 032	0	0.080	
ABS BS Code	PF	SP	Weight [kg]					
729 601 106	2 33 172 999	0	0.006					
729 601 107	2 33 172 999	0	0.004					
729 601 108	2 33 172 999	0	0.015					
729 601 109	2 33 172 999	300	0.027					
729 601 110	2 33 172 999	0	0.032					
729 601 111	2 33 172 999	0	0.062					



Spare parts for valve body type 514 Valve body with true union

Model:

- Without connection parts

d [mm]	Size [inch]	DN [mm]	PVC-U Code	PF	SP	Weight [kg]	
20	½	15	161 492 062	2 31 780 998	1	0.118	
25	¾	20	161 492 063	2 31 780 998	1	0.189	
32	1	25	161 492 064	2 31 780 998	1	0.253	
40	1 ¼	32	161 492 065	2 31 780 998	1	0.391	
50	1 ½	40	161 492 066	2 31 780 998	1	0.601	
63	2	50	161 492 067	2 31 780 998	1	1.068	

PVC-C Code	PF	SP	Weight [kg]	ABS Code	PF	SP	Weight [kg]	
163 482 052	2 32 779 998	1	0.132	169 481 322	2 33 778 998	1	0.081	
163 482 053	2 32 779 998	1	0.198	169 481 333	2 33 778 998	1	0.147	
161 482 053				169 481 334	2 33 778 998	1	0.192	
163 482 054	2 32 779 998	1	0.268	169 481 325	2 33 778 998	1	0.285	
163 482 055	2 32 779 998	1	0.430	169 481 336	2 33 778 998	1	0.445	
163 482 057	2 32 779 998	1	1.134	169 481 337	2 33 778 998	1	0.792	

PP-H Code	PF	SP	Weight [kg]	PVDF Code	PF	SP	Weight [kg]	
167 483 522	2 34 777 998	1	0.081	175 483 682	2 35 774 998	1	0.145	
167 483 523	2 34 777 998	1	0.122	175 483 683	2 35 774 998	1	0.231	
167 483 524	2 34 777 998	1	0.169	175 483 684	2 35 774 998	1	0.310	
167 483 525	2 34 777 998	1	0.261	175 483 685	2 35 774 998	1	0.492	
167 483 526	2 34 777 998	1	0.398	175 483 686	2 35 774 998	1	0.737	
167 483 527	2 34 777 998	1	0.704	175 483 687	2 35 774 998	1	1.301	

PVDF HP Code	PF	SP	Weight [kg]	
180 001 002	2 37 773 998	1	0.145	
180 001 003	2 37 773 998	1	0.231	
180 001 004	2 37 773 998	1	0.310	
180 001 005	2 37 773 998	1	0.492	
180 001 006	2 37 773 998	1	0.737	
180 001 007	2 37 773 998	1	1.301	



Spare parts for valve body type 517

Flat gasket

DN [mm]	Size [inch]	d [mm]	EPDM Code	PF	SP	Weight [kg]
15	½	20	748 400 006	2 30 162 002	1	0.001
20	¾	25	748 400 007	2 30 162 002	100	0.004
25	1	32	748 400 008	2 30 162 002	100	0.002
32	1 ¼	40	748 400 009	2 30 162 002	1	0.007
40	1 ½	50	748 400 010	2 30 162 002	1	0.004
50	2	63	748 400 011	2 30 162 002	1	0.005

FPM Code	PF	SP	Weight [kg]
749 400 006	2 30 162 005	1	0.003
749 400 007	2 30 162 005	1	0.004
749 400 008	2 30 162 005	1	0.002
749 400 009	2 30 162 005	1	0.003
749 400 010	2 30 162 005	1	0.007
749 400 011	2 30 162 005	1	0.006



Spare parts for hand-operated valves

Type 514/515/517/519

Seal set

Model:

- For manual valve - pressure tight housing
- Incl. position indicator

d [mm]	Size [inch]	DN [mm]	EPDM Code	SP	Weight [kg]
20	½	15	198 000 892	1	0.004
25	¾	20	198 000 893	1	0.004
32	1	25	198 000 894	1	0.007
40	1 ¼	32	198 000 895	1	0.006
50	1 ½	40	198 000 896	1	0.008
63	2	50	198 000 897	1	0.009



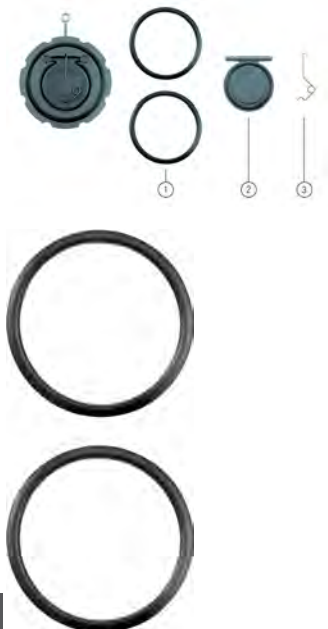
PF 2 31 780 998

Spare parts wafer check valves

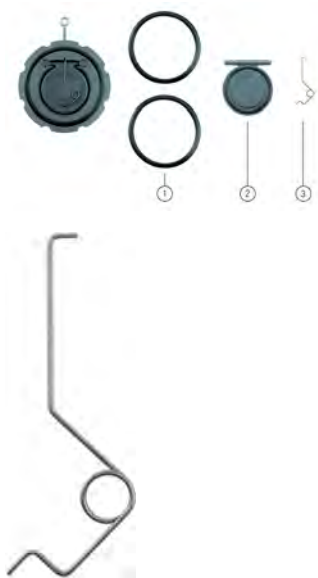
Spare parts wafer check valve type 369

Seal set (1)

Size [inch]	DN [mm]	d [mm]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
1 ¼	32	40	161 484 875	1	0.025	161 484 887	1	0.025
1 ½	40	50	161 484 876	1	0.030	161 484 888	1	0.030
2	50	63	161 484 877	1	0.045	161 484 889	1	0.045
2 ½	65	75	161 484 878	1	0.014	161 484 890	1	0.012
3	80	90	161 484 879	1	0.040	161 484 891	1	0.040
4	100	110	161 484 880	1	0.018	161 484 892	1	0.018
5	125	140	161 484 881	1	0.050	161 484 893	1	0.033
6	150	160	161 484 882	1	0.060	161 484 894	1	0.034
8	200	225	161 484 883	1	0.040	161 484 895	1	0.040
10	250	280	161 484 884	1	0.069	161 484 896	1	0.069
12	300	315	161 484 885	1	0.071	161 484 897	1	0.071



PF 2 31 161 999



Spare parts wafer check valve type 369 Spring (3)

Size [inch]	DN [mm]	d [mm]	V4A Code	SP	Weight [kg]	Hastelloy C Code	SP	Weight [kg]	
1 1/4	32	40	161 484 900	1	0.001	161 484 912	0	0.100	
1 1/2	40	50	161 484 901	0	0.001	161 484 913	0	0.001	
2	50	63	161 484 902	0	0.001	161 484 914	0	0.002	
2 1/2	65	75	161 484 903	0	0.005	161 484 915	0	0.011	
3	80	90	161 484 904	0	0.003	161 484 916	0	0.001	
4	100	110	161 484 905	0	0.004	161 484 917	1	0.005	
5	125	140	161 484 905	0	0.004	161 484 917	1	0.005	
6	150	160	161 484 907	0	0.009	161 484 919	0	0.002	
8	200	225	161 484 908	0	0.019	161 484 920	0	0.023	
10	250	280	161 484 909	0	0.027	161 484 921	0	0.032	
12	300	315	161 484 910	0	0.042	161 484 922	0	0.035	

PF 2 31 161 999



Spare parts wafer check valve type 369 Disc set (2)

Size [inch]	DN [mm]	d [mm]	PVC-U EPDM Code	PF	SP	Weight [kg]	
1 1/4	32	40	161 369 122	2 31 161 999	1	0.005	
1 1/2	40	50	161 369 123	2 31 161 999	1	0.009	
2	50	63	161 369 124	2 31 161 999	1	0.018	
2 1/2	65	75	161 369 125	2 31 161 999	1	0.036	
3	80	90	161 369 126	2 31 161 999	1	0.047	
4	100	110	161 369 127	2 31 161 999	1	0.098	
5	125	140	161 369 128	2 31 161 999	1	0.135	
6	150	160	161 369 129	2 31 161 999	1	0.217	
8	200	225	161 369 130	2 31 161 999	1	0.525	
10	250	280	161 369 131	2 31 161 999	1	0.927	
12	300	315	161 369 132	2 31 161 999	1	1.287	

PVC-U FPM Code	PF	SP	Weight [kg]	PP-H EPDM Code	PF	SP	Weight [kg]	
161 369 142	2 31 161 999	1	0.005	167 369 122	2 34 184 999	1	0.003	
161 369 143	2 31 161 999	1	0.009	167 369 123	2 34 184 999	1	0.006	
161 369 144	2 31 161 999	1	0.018	167 369 124	2 34 184 999	1	0.012	
161 369 145	2 31 161 999	1	0.036	167 369 125	2 34 184 999	1	0.024	
161 369 146	2 31 161 999	1	0.047	167 369 126	2 34 184 999	1	0.032	
161 369 147	2 31 161 999	1	0.098	167 369 127	2 34 184 999	1	0.060	
161 369 148	2 31 161 999	1	0.142	167 369 128	2 34 184 999	1	0.095	
161 369 149	2 31 161 999	1	0.217	167 369 129	2 34 184 999	1	0.142	
161 369 150	2 31 161 999	1	0.525	167 369 130	2 34 184 999	1	0.344	
161 369 151	2 31 161 999	1	0.927	167 369 131	2 34 184 999	1	0.579	
161 369 152	2 31 161 999	1	1.287	167 369 132	2 34 184 999	1	0.844	

PP-H FPM Code	PF	SP	Weight [kg]	PVDF FPM Code	PF	SP	Weight [kg]	
167 369 142	2 34 184 999	1	0.003	175 369 142	2 35 195 999	1	0.005	
167 369 143	2 34 184 999	1	0.006	175 369 143	2 35 195 999	1	0.010	
167 369 144	2 34 184 999	1	0.012	175 369 144	2 35 195 999	1	0.022	
167 369 145	2 34 184 999	1	0.024	175 369 145	2 35 195 999	1	0.041	
167 369 146	2 34 184 999	1	0.032	175 369 146	2 35 195 999	1	0.055	
167 369 147	2 34 184 999	1	0.065	175 369 147	2 35 195 999	1	0.114	
167 369 148	2 34 184 999	1	0.095	175 369 148	2 35 195 999	1	0.168	
167 369 149	2 34 184 999	1	0.142	175 369 149	2 35 195 999	1	0.250	
167 369 150	2 34 184 999	1	0.344	175 369 150	2 35 195 999	1	0.615	
167 369 151	2 34 184 999	1	0.593	175 369 151	2 35 195 999	1	1.081	
167 369 152	2 34 184 999	1	0.844	175 369 152	2 35 195 999	1	1.628	



Connecting parts for ball valves 546/543/523

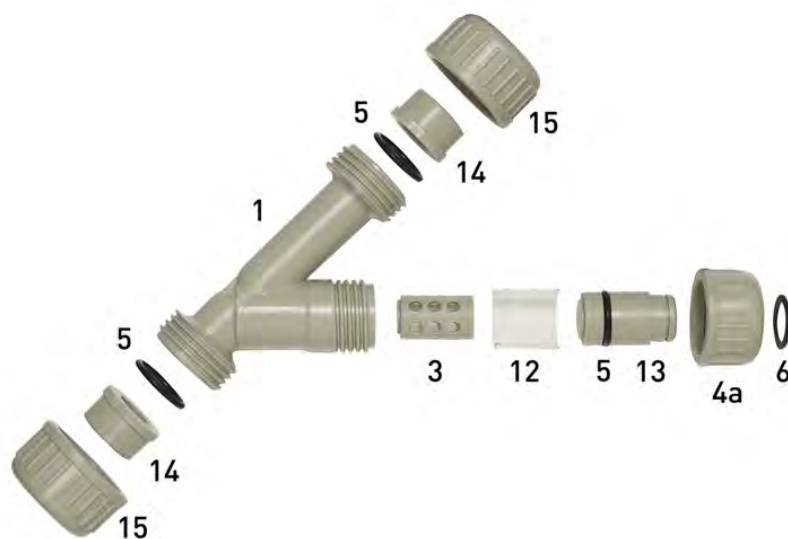
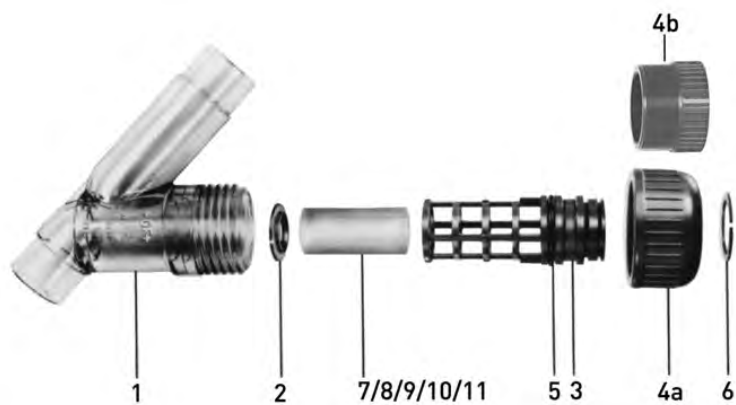
d [mm]	DN [mm]	PVC-U Code	PF	SP	Weight [kg]	
16	10	161 490 538	2 31 546 999	1	0.019	
20	15	161 490 538	2 31 546 999	1	0.019	
25	20	161 490 539	2 31 546 999	1	0.023	
32	25	161 490 540	2 31 546 999	1	0.041	
40	32	161 490 541	2 31 546 999	1	0.066	
50	40	161 490 542	2 31 546 999	1	0.092	
63	50	161 490 543	2 31 546 999	1	0.189	
75	65	161 490 544	2 31 546 999	1	0.562	
90	80	161 490 545	2 31 546 999	1	0.882	
110	100	161 490 546	2 31 546 999	1	1.355	

PVC-C Code	PF	SP	Weight [kg]	ABS Code	PF	SP	Weight [kg]	
163 481 226	2 32 541 999	0	0.020	169 480 713	2 33 542 999	0	0.014	
163 481 226	2 32 541 999	0	0.020	169 480 713	2 33 542 999	0	0.014	
163 481 227	2 32 541 999	0	0.019	169 480 714	2 33 542 999	0	0.021	
163 481 228	2 32 541 999	0	0.041	169 480 715	2 33 542 999	0	0.030	
163 481 229	2 32 541 999	1	0.054	169 480 716	2 33 542 999	1	0.047	
163 481 230	2 32 541 999	0	0.099	169 480 717	2 33 542 999	0	0.067	
163 481 231	2 32 541 999	0	0.199	169 480 718	2 33 542 999	0	0.139	
163 481 232	2 32 541 999	1	0.619	169 480 719	2 33 542 999	1	0.435	
163 481 233	2 32 541 999	1	0.973	169 480 720	2 33 542 999	1	0.683	
163 481 234	2 32 541 999	1	1.493	169 480 721	2 33 542 999	1	1.048	

PP-H Code	PF	SP	Weight [kg]	PVDF Code	PF	SP	Weight [kg]	
167 482 712	2 34 539 999	1	0.014	175 482 937	2 35 540 999	0	0.022	
167 482 712	2 34 539 999	1	0.014	175 482 937	2 35 540 999	0	0.022	
167 482 713	2 34 539 999	1	0.018	175 482 938	2 35 540 999	0	0.033	
167 482 714	2 34 539 999	1	0.030	175 482 939	2 35 540 999	0	0.053	
167 482 715	2 34 539 999	1	0.054	175 482 940	2 35 540 999	0	0.099	
167 482 716	2 34 539 999	1	0.076	175 482 941	2 35 540 999	1	0.095	
167 482 717	2 34 539 999	1	0.151	175 482 942	2 35 540 999	1	0.200	
167 482 718	2 34 539 999	1	0.463	175 482 943	2 35 538 999	0	0.463	
167 482 719	2 34 539 999	1	0.728	175 482 944	2 35 538 999	1	0.728	
167 482 720	2 34 539 999	1	1.117	175 482 945	2 35 538 999	1	1.117	

Spare parts line strainer

Spare parts line strainer type 305/306



Spare parts line strainer type 305/306 Body (1)

d [mm]	Size [inch]	DN [mm]	PVC-U transparent Code	PF	PVC-U transparent ASTM Code	PF	
20	½	15	192 300 301	2 31 161 999	192 480 001	2 31 160 999	
25	¾	20	192 300 351	2 31 161 999	192 480 002	2 31 160 999	
32	1	25	192 300 401	2 31 161 999	192 301 401	2 31 160 999	
40	1 ¼	32	192 300 451	2 31 161 999	192 301 451	2 31 160 999	
50	1 ½	40	192 300 501	2 31 161 999	192 301 501	2 31 160 999	
63	2	50	192 300 551	2 31 161 999	192 301 551	2 31 160 999	
75	2 ½	65	192 300 601	2 31 161 999			
90	3	80	192 300 651	2 31 161 999			

d [mm]	PVC-C Code	PF	ABS Code	PF	PP-H Code	PF	
20	163 481 075	2 32 200 999	169 480 600	2 32 200 999	167 305 010	2 31 160 999	
25	163 481 076	2 32 200 999	169 480 601	2 32 200 999	167 305 011	2 31 160 999	
32	163 481 077	2 32 200 999	169 480 602	2 32 200 999	167 305 012	2 31 160 999	
40	163 481 078	2 32 200 999	169 480 603	2 32 200 999	167 305 013	2 31 160 999	
50	163 481 079	2 32 200 999	169 480 604	2 32 200 999	167 305 014	2 31 160 999	
63	163 481 080	2 32 200 999	169 480 605	2 32 200 999	167 305 015	2 31 160 999	
75							
90							



Spare parts line strainer type 305/306

Screen set

Model:

- Screen set PVC-U and PVC-C DN15-DN50 consisting of: screen (3), screen support ring (2) and circlip (6), PVC-U DN65-DN80: screen (3) and screen support ring (2). PP-H DN15-DN50: screen basket compl. with screen (3) and circlip (6)

d [mm]	Size [inch]	DN [mm]	PVC-U Code	PF	PP-H Code	PF	
20	½	15	161 483 126	2 31 161 999	167 305 001	2 34 184 998	
25	¾	20	161 483 127	2 31 161 999	167 305 002	2 34 184 998	
32	1	25	161 483 128	2 31 161 999	167 305 003	2 34 184 998	
40	1 ¼	32	161 483 129	2 31 161 999	167 305 004	2 34 184 998	
50	1 ½	40	161 483 130	2 31 161 999	167 305 005	2 34 184 998	
63	2	50	161 483 131	2 31 161 999	167 305 006	2 34 184 998	
75	2 ½	65	161 483 132	2 31 161 999			
90	3	80	161 483 133	2 31 161 999			

d [mm]	PVC-C Code	PF	
20	163 305 330	2 31 161 999	
25	163 305 331	2 31 161 999	
32	163 305 332	2 31 161 999	
40	163 305 333	2 31 161 999	
50	163 305 334	2 31 161 999	
63	163 305 335	2 31 161 999	
75			
90			



Spare parts line strainer type 305/306

Screen perforation (7-11)

d [mm]	Size [inch]	DN [mm]	PVC-U 0.5mm (7) Code	PF	PVC-U 0.8mm (8) Code	PF	
20	½	15	161 305 339	2 31 161 998	161 305 338	2 31 161 998	
25	¾	20	161 305 389	2 31 161 998	161 305 388	2 31 161 998	
32	1	25	161 305 439	2 31 161 998	161 305 438	2 31 161 998	
40	1 ¼	32	161 305 489	2 31 161 998	161 305 488	2 31 161 998	
50	1 ½	40	161 305 539	2 31 161 998	161 305 538	2 31 161 998	
63	2	50	161 305 589	2 31 161 998	161 305 588	2 31 161 998	
75	2 ½	65	161 305 639	2 31 161 998	161 305 638	2 31 161 998	
90	3	80	161 305 689	2 31 161 998	161 305 688	2 31 161 998	

d [mm]	Size [inch]	PVC-U 1.4mm (9) Code	PF	PVC-U 2.2mm (10) Code	PF	
20	½	161 305 337	2 31 161 998	161 305 336	2 31 161 998	
25	¾	161 305 387	2 31 161 998	161 305 386	2 31 161 998	
32	1	161 305 437	2 31 161 998	161 305 436	2 31 161 998	
40	1 ¼	161 305 487	2 31 161 998	161 305 486	2 31 161 998	
50	1 ½	161 305 537	2 31 161 998	161 305 536	2 31 161 998	
63	2	161 305 587	2 31 161 998	161 305 586	2 31 161 998	
75	2 ½	161 305 637	2 31 161 998	161 305 636	2 31 161 998	
90	3	161 305 687	2 31 161 998	161 305 686	2 31 161 998	

d [mm]	Size [inch]	PP-H (12) Code	PF	stainless steel 0.5mm AISI 316 (11) Code	PF	
20	½	167 305 030	2 34 184 999	161 486 100	2 32 200 999	
25	¾	167 305 031	2 34 184 999	161 486 101	2 32 200 999	
32	1	167 305 032	2 34 184 999	161 486 102	2 32 200 999	
40	1 ¼	167 305 033	2 34 184 999	161 486 103	2 32 200 999	

table continued next page

d [mm]	Size [inch]	PP-H (12) Code	PF	stainless steel 0.5mm AISI 316 (11) Code	PF	
50	1 ½	167 305 034	2 34 184 999	161 486 104	2 32 200 999	
63	2	167 305 035	2 34 184 999	161 486 105	2 32 200 999	
75	2 ½			161 486 106	2 32 200 999	
90	3			161 486 107	2 32 200 999	



Spare parts line strainer type 305/306 Screen cage bracket (13)

Model:

- Only available for PP-H version

d [mm]	Size [inch]	DN [mm]	PP-H Code	
20	½	15	167 305 040	
25	¾	20	167 305 041	
32	1	25	167 305 042	
40	1 ¼	32	167 305 043	
50	1 ½	40	167 305 044	
63	2	50	167 305 045	

PF 2 34 184 999



Spare parts line strainer type 305/306 Screen cage (3)

Model:

- Screen cage in PVC-U, PVC-C and PP-H

d [mm]	Size [inch]	DN [mm]	PVC-U Code	PF	PVC-C Code	PF	
20	½	15	161 305 303	2 31 161 999	163 481 102	2 32 200 999	
25	¾	20	161 305 353	2 31 161 999	163 481 103	2 32 200 999	
32	1	25	161 305 403	2 31 161 999	163 481 104	2 32 200 999	
40	1 ¼	32	161 305 453	2 31 161 999	163 481 105	2 32 200 999	
50	1 ½	40	161 305 503	2 31 161 999	163 481 106	2 32 200 999	
63	2	50	161 305 553	2 31 161 999	163 481 107	2 32 200 999	
75	2 ½	65	161 305 603	2 31 161 999			
90	3	80	161 305 653	2 31 161 999			

d [mm]	PP-H Code	PF	
20	167 305 020	2 31 161 998	
25	167 305 021	2 31 161 998	
32	167 305 022	2 31 161 998	
40	167 305 023	2 31 161 998	
50	167 305 024	2 31 161 998	
63	167 305 025	2 31 161 998	
75			
90			



Spare parts line strainer type 305/306 Circlip (6)

d [mm]	Size [inch]	DN [mm]	PP-H Code	PVC-U Code	
20	½	15	161 482 017	161 482 076	
25	¾	20	161 482 018	161 482 017	
32	1	25	161 482 019	161 482 018	
40	1 ¼	32	161 482 020	161 482 019	
50	1 ½	40	161 482 021	161 482 021	
63	2	50	161 482 022	161 482 022	

PF 2 31 161 999



Spare parts line strainer type 305/306 Plug (4b)

Model:

- Only for PVC-U DN65-DN80

d [mm]	Size [inch]	DN [mm]	PVC-U Code	
75	2 ½	65	161 305 604	
90	3	80	161 305 654	

PF 2 31 161 999



Spare parts line strainer type 305/306 Body seal (5)

Model:

- Body seal vor PVC-U and PP-H

d [mm]	Size [inch]	DN [mm]	EPDM Code	PF	FPM Code	PF	
20	½	15	748 410 006	2 30 162 006	749 410 006	2 30 162 008	
25	¾	20	748 410 001	2 30 162 007	749 410 001	2 30 162 009	
32	1	25	748 410 007	2 30 162 006	749 410 007	2 30 162 008	
40	1 ¼	32	748 410 002	2 30 162 007	749 410 002	2 30 162 009	
50	1 ½	40	748 410 003	2 30 162 006	749 410 003	2 30 162 008	
63	2	50	748 410 012	2 30 162 007	749 410 012	2 30 162 009	
75	2 ½	65	748 410 013	2 30 162 007	749 410 013	2 30 162 009	
90	3	80	748 410 014	2 30 162 007	749 410 014	2 30 162 009	



Spare parts line strainer type 305/306 Valve nut (4a/15)

Model:

- Union nut PVC-U DN15-DN50, PP-H

d [mm]	Size [inch]	DN [mm]	Cap nut PVC-U (4a) Code	PF	Cap nut PVC-C (4a) Code	PF	
20	½	15	161 300 308	2 31 160 999	163 481 084	2 32 200 999	
25	¾	20	161 300 358	2 31 160 999	163 481 085	2 32 200 999	
32	1	25	161 300 408	2 31 160 999	163 481 086	2 32 200 999	
40	1 ¼	32	161 300 458	2 31 160 999	163 481 087	2 32 200 999	
50	1 ½	40	161 300 508	2 31 160 999	163 481 088	2 32 200 999	
63	2	50	161 300 558	2 31 160 999	163 481 089	2 32 200 999	

d [mm]	Cap nut ABS (4a) Code	PF	Cap nut PP- H (4a) Code	PF	Connecting Nut PP-H (15) Code	PF	
20	169 480 609	2 33 199 999	167 305 060	2 34 184 999	167 305 070	2 34 184 999	
25	169 480 610	2 33 199 999	167 305 061	2 34 184 999	167 305 071	2 34 184 999	
32	169 480 611	2 33 199 999	167 305 062	2 34 184 999	167 305 072	2 34 184 999	
40	169 480 612	2 33 199 999	167 305 063	2 34 184 999	167 305 073	2 34 184 999	
50	169 480 613	2 33 199 999	167 305 064	2 34 184 999	167 305 074	2 34 184 999	
63	169 480 614	2 33 199 999	167 305 065	2 34 184 999	167 305 075	2 34 184 999	



Spare parts line strainer type 305/306 Valve end metric (14)

Model:

- Only available for PP-H version

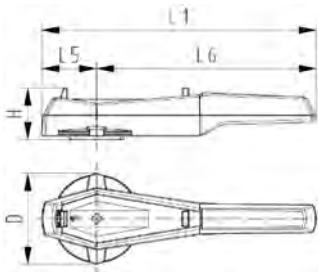
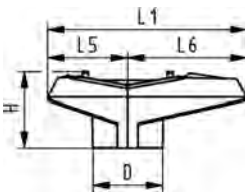
d [mm]	Size [inch]	DN [mm]	fusion socket PP-H Code	PF	butt fusion spigot IR PP-H SDR11 Code	PF	
20	½	15	727 600 106	2 34 180 999	727 508 506	2 34 403 999	
25	¾	20	727 600 107	2 34 180 999	727 508 507	2 34 403 999	
32	1	25	727 600 108	2 34 180 999	727 508 508	2 34 403 999	
40	1 ¼	32	727 600 109	2 34 180 999	727 508 509	2 34 403 999	
50	1 ½	40	727 600 110	2 34 180 999	727 508 510	2 34 403 999	
63	2	50	727 600 111	2 34 180 999	727 508 511	2 34 403 999	

Handle and handle extensions

Standard handle 546



DN10/15 - 50



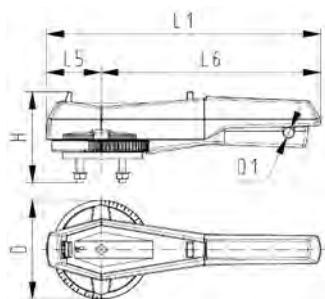
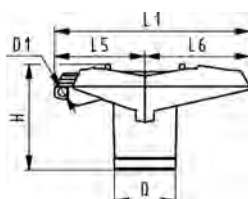
DN [mm]	d [mm]	red (K01) Code	SP	Weight [kg]	black (K02) Code	SP	Weight [kg]	
10 - 15	16 - 20	167 484 088	0	0.012	167 484 076	0	0.012	
20	25	167 484 089	0	0.022	167 484 077	0	0.022	
25	32	167 484 090	0	0.022	167 484 078	0	0.022	
32	40	167 484 091	0	0.042	167 484 079	0	0.042	
40	50	167 484 092	0	0.042	167 484 080	0	0.042	
50	63	167 484 093	0	0.064	167 484 081	0	0.059	
65	75	167 484 094	0	0.250	167 484 082	0	0.250	
80	90	167 484 095	1	0.250	167 484 083	0	0.250	
100	110	167 484 096	1	0.298	167 484 084	0	0.298	

H [mm]	L5 [mm]	L1 [mm]	D [mm]	L6 [mm]	
31	32	77	26	45	
37	39	97	34	58	
37	39	97	34	58	
46	54	128	40	74	
46	54	128	40	74	
54	66	152	44	87	
58	64	270	106	206	
58	64	270	106	206	
60	64	320	106	256	

PF 2 31 798 999



DN10/15 - 50



Multifunctional handle 546 red (K11) With ratchet settings lockable

Note:

To retrofit the ball valve 546 with the multifunctional handle a multifunction module is necessary in the dimensions DN65-100

d-d [mm]	DN-DN [mm]	Code	PF	SP	Weight [kg]
16 - 20	10 - 15	167 484 100	2 31 798 999	0	0.026
25	20	167 484 101	2 31 798 999	0	0.045
32	25	167 484 102	2 31 798 999	0	0.047
40	32	167 484 103	2 31 798 999	0	0.091
50	40	167 484 104	2 31 798 999	0	0.080
63	50	167 484 105	2 31 798 999	0	0.124
75	65	161 486 689	2 31 567 998	1	0.468
90	80	161 486 690	2 31 567 998	1	0.467
110 - 140	100 - 125	161 486 691	2 31 567 998	1	0.543

d-d [mm]	D1 [mm]	D [mm]	H [mm]	L1 [mm]	L5 [mm]	L6 [mm]
16 - 20	5	26	53	87	42	45
25	5	34	59	108	50	58
32	5	34	59	108	50	58
40	5	40	69	140	66	75
50	5	40	69	140	66	75
63	5	44	80	165	78	87
75	12	115	105	270	64	206
90	12	115	105	270	64	206
110 - 140	12	115	107	320	64	256



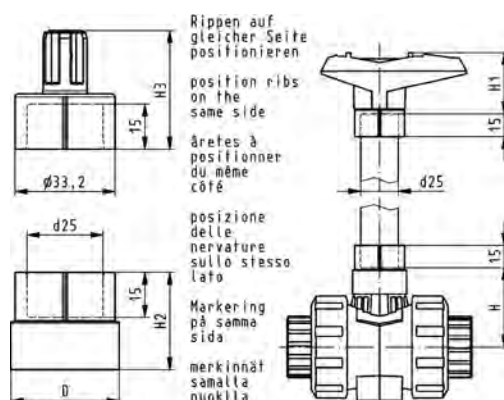
PF 2 31 798 999

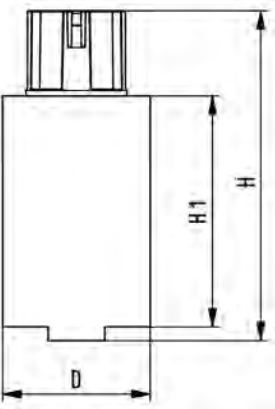
Handle extension 546 and 543 PVC-U metric

Model:

- For ball valve type 546 and 543
- Composed of adapter sockets for handle connection and stem connection
- PVC-U pipe in suitable length has to be obtained on site

DN-DN [mm]	d-d [mm]	Code	SP	Weight [kg]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	D [mm]
10 - 15	16 - 20	161 486 435	0	0.030	41	52	29	36	26
20 - 25	25 - 32	161 486 436	0	0.029	50	62	32	39	36
32 - 40	40 - 50	161 486 437	0	0.045	65	76	34	44	40
50	63	161 486 438	0	0.059	84	87	37	48	44





PF 2 31 798 999

Handle extension for ball valve type 546 PVC-U DN65 - DN100

Model:

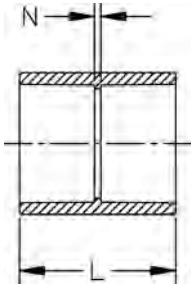
- Height variable
- Multiple use in succession possible

d-d [mm]	DN-DN [mm]	Code	SP	Weight [kg]	H [mm]	D [mm]	H1 [mm]	
75 - 90	65 - 80	161 490 920	1	0.323	143	58	100	
110	100	161 490 921	1	0.413	143	64	100	

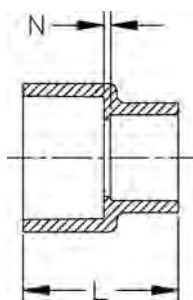
PVC Fittings

Coupling (S x S)

• --> Placeholder



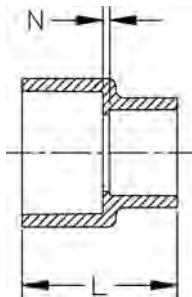
Size [inch]	P/L	Code	Pack Qty	L [inch]	N [inch]	Design	
¼	08	829-002	50	1.39	0.14	HS	
⅜	08	829-003	50	1.64	0.14	HS	
½	08	829-005	25	1.93	0.13	SL	
¾	08	829-007	20	2.18	0.13	SL	
1	08	829-010	25	2.41	0.13	SL	
1 ¼	08	829-012	10	2.64	0.12	SL	
1 ½	08	829-015	10	2.90	0.13	SL	
2	08	829-020	20	3.14	0.12	SL	
2 ½	08	829-025	5	3.75	0.16	SL	
3	08	829-030	5	4.05	0.25	SL	
4	08	829-040	5	4.79	0.25	SL	
6	08	829-060	2	6.41	0.34	SL	
8	08	829-080	2	8.40	0.34	SL	
10	02	829-100	2	10.55	0.49	SL	
12	02	829-120	1	12.54	0.50	SL	
14	05	829-140N	1	17.75	3.75	FAB	
16	05	829-160N	1	20.25	4.25	FAB	
18	05	829-180N	1	22.75	4.75	FAB	
20	05	829-200N	1	25.25	5.25	FAB	
24	05	829-240N	1	30.25	6.25	FAB	



Reducing Coupling (S x S)

Size [inch]	P/L	Code	Pack Qty	L [inch]	N [inch]	Design
¾ - ½	08	829-101	20	2.16	0.14	HS
1 - ½	08	829-130	25	2.12	0.09	HS
1 - ¾	08	829-131	25	2.26	0.12	HS
1 ¼ - 1	08	829-168	10	2.54	0.09	HS
1 ½ - ½	08	829-209FB	10	3.34	0.17	BUSH
1 ½ - ¾	08	829-210	10	3.34	0.17	BUSH
1 ½ - 1	08	829-211	10	2.66	0.10	HS
1 ½ - 1 ¼	08	829-212	10	2.82	0.10	HS
2 - ½	08	829-247FB	5	3.35	0.88	BUSH
2 - ¾		829-248	5	3.05	0.47	
2 - 1	08	829-249	5	3.12	0.33	HS
2 - 1 ¼	08	829-250	5	3.00	0.13	HS
2 - 1 ½	08	829-251	5	3.05	0.10	HS
2 ½ - 1 ½	08	829-291	5	3.30	0.13	HS
2 ½ - 2	08	829-292FB	5	4.00	0.65	BUSH
3 - 1 ½	08	829-337FB	5	4.55	1.16	BUSH
3 - 2	08	829-338	5	3.61	0.16	HS
3 - 2 ½	08	829-339FB	5	4.49	0.76	BUSH
4 - 2	08	829-420FB	5	4.94	1.12	BUSH
4 - 3	08	829-422	5	4.39	0.26	HS
6 - 4	08	829-532	2	10.25	3.50	HS
8 - 4	08	829-582FB	2	9.77	3.42	BUSH
8 - 6	08	829-585	2	9.26	2.07	HS
10 - 4	05	829-623N	1	17.50	10.50	FAB
10 - 6	05	829-626N	1	13.25	5.25	FAB
10 - 6	02	829-626FB	1	10.96	2.90	BUSH
10 - 8	05	829-628N	1	12.75	3.75	FAB
10 - 8	02	829-628FB	2	11.18	2.07	BUSH
12 - 8	05	829-668N	1	15.50	5.50	FAB
12 - 8	02	829-668FB	1	13.40	2.97	BUSH
12 - 10	05	829-670N	1	15.00	4.00	FAB
12 - 10	02	829-670FB	1	13.24	2.13	BUSH
14 - 4	05	829-696N	1	13.00	3.00	FAB
14 - 6	05	829-698N	1	14.00	3.50	FAB
14 - 8	05	829-700N	1	15.00	4.00	FAB
14 - 10	05	829-702N	1	17.00	5.00	FAB
14 - 12	05	829-704N	1	16.50	3.50	FAB
16 - 4	05	829-730N	1	16.50	3.50	FAB
16 - 6	05	829-732N	1	16.50	4.50	FAB
16 - 8	05	829-734N	1	18.05	5.00	FAB
16 - 10	05	829-736N	1	19.00	5.10	FAB
16 - 12	05	829-738N	1	19.25	5.25	FAB
16 - 14	05	829-740N	1	19.50	4.50	FAB
18 - 4	05	829-784N	1	48.50	37.50	FAB
18 - 6	05	829-786N	1	36.00	24.00	FAB
18 - 8	05	829-788N	1	42.50	29.50	FAB
18 - 10	05	829-790N	1	33.50	19.50	FAB
18 - 12	05	829-792N	1	22.00	7.00	FAB
18 - 14	05	829-794N	1	22.25	25.00	FAB
18 - 16	05	829-796N	1	21.75	4.75	FAB
20 - 4	05	829-814N	1	60.50	48.50	FAB
20 - 6	05	829-816N	1	55.50	42.50	FAB
20 - 8	05	829-818N	1	56.25	42.25	FAB
20 - 10	05	829-820N	1	47.25	32.25	FAB
20 - 12	05	829-822N	1	37.00	21.00	FAB
20 - 14	05	829-824N	1	37.25	20.25	FAB
20 - 16	05	829-826N	1	24.50	6.50	FAB
20 - 18	05	829-828N	1	24.00	5.00	FAB
24 - 4	05	829-904N	1	66.00	52.00	FAB
24 - 6	05	829-906N	1	61.00	46.00	FAB
24 - 8	05	829-908N	1	52.00	36.00	FAB
24 - 10	05	829-910N	1	52.75	35.75	FAB
24 - 12	05	829-912N	1	42.50	24.50	FAB

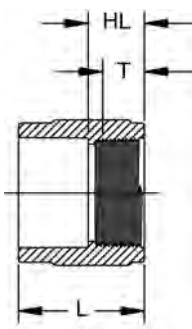
table continued next page



Size [inch]	P/L	Code	Pack Qty	L [inch]	N [inch]	Design	
24 - 14	05	829-914N	1	42.75	23.75	FAB	
24 - 16	05	829-916N	1	42.25	22.25	FAB	
24 - 18	05	829-918N	1	29.50	8.50	FAB	
24 - 20	05	829-920N	1	29.25	7.25	FAB	



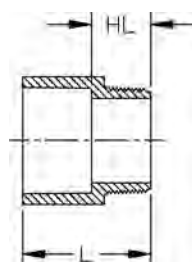
Female Adapter (S x FPT)



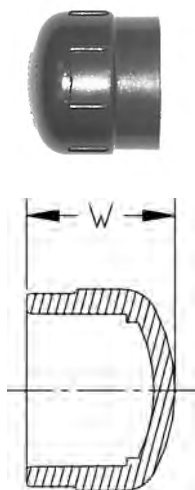
Size [inch]	P/L	Code	Pack Qty	HL [inch]	L [inch]	T [inch]	Design	
¼	08	835-002	50	0.75	1.43	0.40	HS	
⅜	08	835-003	50	0.75	1.55	0.41	HS	
½	08	835-005	25	0.91	1.79	0.53	HS	
¾	08	835-007	25	0.95	1.96	0.55	HS	
1	08	835-010	25	1.11	2.26	0.68	HS	
1 ¼	08	835-012	10	1.16	2.44	0.71	HS	
1 ½	08	835-015	10	1.19	2.58	0.72	HS	
2	08	835-020	5	1.23	2.74	0.76	HS	
2 ½	08	835-025	5	1.75	3.50	1.14	HS	
3	08	835-030	5	1.91	3.82	1.20	HS	
4	08	835-040	5	2.02	4.29	1.30	HS	
6	08	835-060	1	3.35	6.40	1.50	SL	
8	05	835-080	1	5.00	9.00	1.75	HS	
10	05	835-100	1	5.00	10.00	2.00	HS	
12	05	835-120N	1	4.50	10.50	2.13	FAB	



Male Adapter (S x MPT)

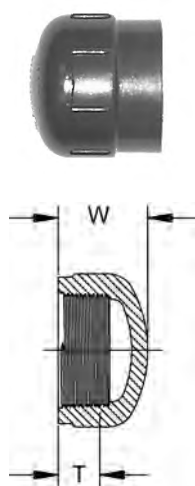


Size [inch]	P/L	Code	Pack Qty	HL [inch]	L [inch]	Design	
½	08	836-005	50	0.93	1.86	SL	
¾	08	836-007	25	1.00	2.04	HS	
1	08	836-010	25	1.21	2.39	HS	
1 ¼	08	836-012	15	1.29	2.56	HS	
1 ½	08	836-015	10	1.32	2.72	HS	
2	08	836-020	5	1.35	2.88	HS	
2 ½	08	836-025	5	1.87	3.68	HS	
3	08	836-030	5	2.02	3.92	HS	
4	08	836-040	5	2.08	4.40	HS	
6	05	836-060N	1	3.63	6.63	FAB	
8	05	836-080N	1	3.50	7.50	FAB	
10	05	836-100N	1	4.25	9.25	FAB	
12	05	836-120N	1	4.25	10.25	FAB	



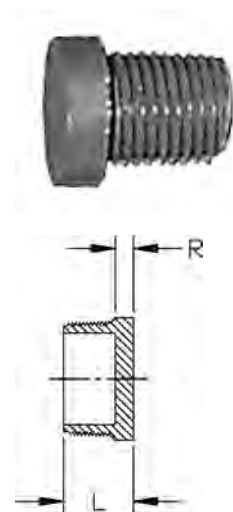
Cap (S)

Size [inch]	P/L	Code	Pack Qty	W [inch]	Design	
¼	08	847-002	50	0.95	HS	
⅜	08	847-003	50	1.09	HS	
½	08	847-005	50	1.29	HS	
¾	08	847-007	50	1.46	HS	
1	08	847-010	25	1.67	HS	
1 ¼	08	847-012	15	1.88	HS	
1 ½	08	847-015	10	2.09	HS	
2	08	847-020	5	2.32	HS	
2 ½	08	847-025	5	2.73	HS	
3	08	847-030	5	3.05	HS	
4	08	847-040	5	3.67	HS	
6	08	847-060	2	4.96	HS	
8	08	847-080	2	6.29	SL	
10	02	847-100	1	7.88	SL	
12	02	847-120	1	9.38	SL	
14	05	847-140N	1	5.75	FAB	
16	05	847-160N	1	7.50	FAB	
18	05	847-180N	1	8.25	FAB	
20	05	847-200N	1	8.75	FAB	
24	05	847-240N	1	10.25	FAB	



Cap (FPT)

Size [inch]	P/L	Code	Pack Qty	W [inch]	T [inch]	Design	
¼	08	848-002	50	0.93	0.40	HS	
⅜	08	848-003	50	0.95	0.41	HS	
½	08	848-005	50	1.16	0.53	HS	
¾	08	848-007	25	1.24	0.55	HS	
1	08	848-010	25	1.50	0.68	HS	
1 ¼	08	848-012	15	1.61	0.71	HS	
1 ½	08	848-015	10	1.66	0.72	HS	
2	08	848-020	5	1.84	0.76	HS	
2 ½	08	848-025	5	2.56	1.14	HS	
3	08	848-030	5	2.83	1.20	HS	
4	08	848-040	5	3.13	1.30	HS	



Plug (MPT)

Size [inch]	P/L	Code	Pack Qty	L [inch]	R [inch]	
¼	08	850-002	50	0.81	0.22	
⅜	08	850-003	50	0.83	0.22	
½	08	850-005	50	0.97	0.22	
¾	08	850-007	50	1.04	0.25	
1	08	850-010	25	1.25	0.27	
1 ¼	08	850-012	25	1.32	0.31	
1 ½	08	850-015	20	1.38	0.34	
2	08	850-020	10	1.46	0.40	
2 ½	08	850-025	10	1.95	0.38	
3	08	850-030	5	2.00	0.38	
4	08	850-040	5	2.15	0.39	
6	05	850-060N	1	2.00	0.75	
8	05	850-080N	1	2.00	0.75	
10	05	850-100N	1	2.00	0.75	
12	05	850-120N	1	2.00	0.75	

GEORGE FISCHER PTY LTD A.B.N. 37 001 686 399
STANDARD TERMS AND CONDITIONS OF SALE

1 DEFINITIONS 1.1 "Customer" means the person, firm or corporation to which George Fischer Pty Ltd supplies goods upon request. 1.2 "Goods" means the articles, goods, merchandise and/or materials or services supplied by George Fischer Pty Ltd to the Customer. 1.3 "GF" means George Fischer Pty Limited (A.B.N. 37 001 686 399). 2 INCORPORATION OF TERMS 2.1 All quotations or submissions given and orders accepted for goods by GF are given or accepted subject to these terms and conditions. 2.2 There shall be no variation to these Terms and Conditions unless specifically agreed to in writing by GF. 2.3 Sales of Goods by GF are made on the specific condition that the customer is aware of the Terms and Conditions of Sale. The conditions of sale are printed on the reverse side of all GF purchase orders. 2.4 Any terms or conditions included in the Customer's order are expressly excluded in favour of these Terms and Conditions of Sale. 2.5 For goods sold outside of Australia, the terms and conditions of sale are excluded from the Vienna Convention for the International Sale of Goods. 3 PRICES 3.1 Prices for Goods quoted in published price lists or by representatives of GF are subject to change without notice and are not binding on GF. GF reserves the right to increase prices to take account of cost escalation between the time of order and delivery. All Goods are sold at the applicable ruling price at the date of dispatch but where the price of Goods increases between the time of order and time of delivery the Customer shall be entitled to cancel the order upon returning the Goods to GF in an undamaged condition. 3.2 Freight charges will be applied unless otherwise agreed in writing. Delivery surcharges will apply in the following situations: a) Same day, courier or express delivery b) Special conditions specified by the Customer c) Loading or unloading times at the Customer's designated site exceeding the allowed one hour period for a full truckload. d) The cost of additional equipment required for the purpose of loading or unloading at the Customer's designated site. 3.3 Prices quoted or published on official price lists do not include sales tax, a goods and services tax or other imposts. (Refer Clause 5. IMPOSTS). 3.4 Prices are subject to Customer's order being for the whole quantity mentioned in the quotation unless otherwise negotiated. 3.5 Where goods are imported, prices are based on existing rates of freight, exchange, insurance, customs and other duties. Any increase in such rates between time of quotation and time of payment will be to the Customer's account. 4. IMPOSTS (Taxes) 4.1 IMPOST means any royalty, tax (including sales tax or a goods and services tax), duty, excise, levy, fee, rate or charge imposed by any governmental, semi-governmental or other body authorised by law which is imposed on or in respect of or in relation to:- • The provision, sale, purchase, acquisition, rental or supply of pipe, tubing, pipe fittings, equipment or other goods; or • The provision, supply or performance of any services, or any other thing done or performed by GF. 4.2 Prices charged will be increased by the amount of any impost. In relation to a goods and services tax (GST), any amounts stated in price lists, quotations or other correspondence, or charged will be increased by such amount as is necessary to ensure that the amount stated or charged net of GST is the same as it would have been prior to the imposition of a GST. 4.3 It is the Customer's responsibility to ensure that where a sales tax or other impost exemption is claimed, such claim is supported IN WRITING by the quotation of a tax	exemption number or notice of exemption in the prescribed format. Should doubt exist as to the validity of a claimed exemption, GF reserves the right to charge the tax or levy. 5 PAYMENT TERMS 5.1 Unless otherwise agreed, all sums owing to GF are due for payment in Australian dollars within thirty (30) days from invoice date and the Customer will have no right of set-off in respect of any claim against GF. 5.2 GF reserves the right to apply a daily account charge of 2% per annum above the Westpac Banking Corporation Base rate (as at the due date) from the due date for payment until actual date of payment to all balances not paid within the required thirty (30) days. No settlement discounts are offered or allowed unless specifically confirmed in writing. 5.3 All legal and other costs incurred by GF due to non-payment by the Customer, including fees paid to third parties employed by GF to pursue the debt, shall be for the Customer's account. 5.4 GF shall be entitled before delivery or continuing delivery, to stipulate that sufficient security for the fulfilment of the payment obligations is provided or payment is made in advance by the Customer 5.5 GF reserves the right to immediately cancel any order or suspend any delivery without incurring any liability to the Customer if the Customer is overdue with any payment, enters into bankruptcy, a composition with its creditors, an administrator, liquidator or provisional liquidator is appointed in respect with the customer. 5.6 GF reserves the right to suspend any delivery without incurring any liability to the Customer upon becoming aware of any factors which in the opinion of GF affect the Customer's financial solvency. Resumption of deliveries will depend on the Customer being able to satisfy GF that it has the capacity to pay its debts as they fall due. 6. PERSONAL PROPERTY SECURITIES ACT 2008 6.1 The Customer acknowledges that these Terms & Conditions create a security interest under the Personal Property Securities Act 2009 (PPSA) in favour of the Company in all goods supplied by the Company to the Customer (and all goods previously supplied by the Company to the Customer), and for avoidance of doubt, the proceeds of sale of those goods. 6.2 The Customer consents to the Company effecting a registration on the PPSA register (in any manner the Company considers appropriate) in relation to any security interest contemplated by these Terms & Conditions (including but not limited to an interest under relation to retention of title provisions of these Terms & Conditions) and further agrees; (1) to do all things necessary and required by the Company to make sure that the security interest is a perfected "Purchase money security interest" under the PPSA and (2) not to allow any third party to acquire a security interest in the goods. 6.3 To the extent that the goods are for the customer 's business use, the Customer agrees to the extent permitted under the PPSA, that the Customer has no right; (1) to receive notice of removal of an accession under the PPSA; (2) under Chapter 4 of the PPSA: or (3) under the PPSA to receive a copy of any verification statement of financial change statement under the PPSA. 6.4 Without in any way limiting subclause © above, the customer agrees that to the extent permitted under the PPSA, the customer hereby waives its rights under section 95,96,117,118,120,121(4) 123,125,126,128,129,130,132,134,135,142 and 143 of the PPSA. 6.5 Unless otherwise agreed to in writing by the Company, the customer waives its right to receive a verification statement in accordance with section 157 of the PPSA. 6.6 The customer hereby waives its rights to receive notices under sections 95,118,121(4), 130,132(3)(D) AND 132(4) of the PPSA. 6.7 The customer must not assign or grant security interest in respect of any accounts owed to it in relation to the goods without the Company's prior written consent. 6.8 Without limiting any other provision of these Terms & Conditions, if the Customer makes a payment to the Company at any time whether in connection with the supply of goods or otherwise, the Company may, at its absolute discretion, apply that payment to first satisfy obligations that are not secured, then obligations that are secured, then obligations that are secured, but not by a purchase money security interest, in the order in which those obligations were incurred, and then obligations that are secured by a purchase money security interest in the order in which those
--	--

GEORGE FISCHER PTY LTD A.B.N. 37 001 686 399
STANDARD TERMS AND CONDITIONS OF SALE

6.9	obligations were incurred. Everything the Customer is required to do under this clause is at the Customer's expense. The Customer agrees to pay or reimburse the Company's costs and expenses in connection with anything the Company does under this clause.	10.3	The following Goods will not be accepted for return:- a) Special equipment including butt welders and electro-fusion machines b) Nylon and polyethylene gas pipe and fittings c) Special purpose and fabricated fittings d) Surplus pipe on GF drums. e) Specialised pipe & fittings manufactured or bought-in to satisfy a Customers requirements. f) Other items which are not part of the GF standard inventory range.
7	AVAILABILITY AND DELIVERY	10.4	The Customer shall not be relieved of any obligation to accept or pay for the goods by reason of any delay or cancellation of the goods in transit.
7.1	The Customer shall place orders for Goods in multiples of standard lengths or quantities. Whilst every reasonable endeavour will be made to deliver the quantity ordered, GF reserves the right to deliver within a + or - 5% margin of the ordered quantity. Unless otherwise agreed delivery of ex-stock items will not be effected within forty-eight (48) hours from receipt of order. GF does not guarantee ex-stock availability of Goods and orders are accepted subject to the prior sale of the required Goods. GF shall not be liable for any loss or damage arising as a result of non-availability of Goods.	11	GUARANTEE BY CUSTOMER
7.2	Depending upon availability, GF will use its reasonable endeavours to meet a Customer's requested delivery date. However, GF shall not be liable to the Customer for any loss or damage (including consequential loss) caused by any delay or failure to deliver any Goods due to any cause or circumstances beyond its reasonable control. In the event of any delay in delivery as aforesaid, the delivery date may be deferred for a period at least equal to the time lost by reason of the intervening cause or circumstance.	11.1	The Customer in ordering specific Goods from GF guarantees that in manufacturing such goods GF will not be liable for any infringement of letters of patent, trade marks, registered designs, copyright or other registered or unregistered intellectual property.
7.3	It is the Customer's responsibility to ensure adequate equipment is on hand to unload the transport vehicle in a safe and efficient manner. If, in the opinion of the transport driver, conditions are not adequate to ensure the safety of all concerned in the unloading operation, the Goods will be returned to GF at the Customer's expense.	12	WARRANTY
8	FORCE MAJEURE	12.1	The liability of GF is limited in all circumstances to: (a) in the case of goods proved under proper care and use to be of faulty manufacture, any one of the following:- (1) the replacement of the goods or supply of equivalent goods; (2) the repair of the goods; (3) the payment of the cost of replacing the goods or of acquiring equivalent goods; (4) the payment of the cost of having the goods repaired; or (b) in the case of services; (1) the supplying of the services again; or (2) the payment of the cost of having the services supplied again.
8.1	GF will use its reasonable endeavours to fulfil any contract based on quotations given, but the due performance is subject to variation or cancellation owing to Acts of God; War; Strikes; Lockouts; Fire; Flood; Drought or any other cause beyond the control of GF.	12.2	To the extent permitted by law, GF is not bound by any other warranty (express or implied), clause or statement whatsoever by whomsoever made unless the same is set out herein. All liability in contract, tort or arising under any legislation or otherwise or any consequential loss, injury damage or expense whatsoever is expressly excluded to the full extent possible.
9	CLAIMS	12.3	Unless full specifications and application details are made available to GF, the Customer acknowledges and agrees that GF does not warrant that the Goods supplied against the Customer's written or verbal order will be fit for the purpose for which they are used. It is the Customer's responsibility at all times to seek expert advice to ensure the goods selected are fit for purpose.
9.1	It is the Customer's responsibility to inspect all Goods promptly upon delivery. GF shall not be liable for short delivery; delivery of incorrect Goods; damaged Goods or non-delivery of Goods unless the Customer submits a written claim to GF within seven (7) working days of the delivery to which the claim relates.	12.4	GF warrants that Goods manufactured by it and branded with the applicable Australian or international quality standard to which they were produced will conform with those standards.
9.2	Where Goods are delivered by Carriers appointed by GF, the Customer must also notify the Carrier in accordance with the Carrier's conditions of carriage.	12.5	GF manufactured Goods that are not branded with an Australian or international quality standard are not warranted unless specified in writing to the Customer.
9.3	GF shall not recognise claims for incorrect application or use of the Goods. The responsibility to verify that the Goods have or will be used in the correct application rests with the Customer.	13	JURISDICTION
10	CANCELLATION AND RETURNS	13.1	This agreement shall be governed by the laws of the State of New South Wales.
10.1	Goods may not be returned more than one (1) month after the date of the applicable invoice.	13.2	At its request, George Fischer shall be given the opportunity to inspect the defect and / or damage, prior to commencement of remedial work, either itself or by third party experts.
10.2	The Customer may return for credit (against subsequent orders) Goods of current standing provided the following conditions are met: a) GF's written approval has first been obtained and the original invoice number and date have been quoted for reference. b) the Goods are returned in original condition. c) the Customer agrees to pay, if required by GF, a retesting and/or handling charge which shall be charged to the Customer's account at a rate of no less than thirty per cent (30%) of the original price for the Goods.		

George Fischer Pty Ltd

ABN 37 001 686 399

australia.ps@georgfischer.com

www.georgfischer.com.au

Head Office

Sydney

Unit 1, 100 Belmore Road North

Riverwood NSW 2210

Tel. 02 9502 8000 Fax. 02 9502 8090

Sales Offices

Adelaide

169 Philip Highway

Elizabeth SA 5112

Tel. 1300 130 149 Fax. 1300 884 122

Brisbane

Unit 7, 30 Raubers Road

Banyo QLD 4014

Tel. 07 3621 7500 Fax. 07 3267 6400

Mackay

Tel. 1300 130 149 Fax. 1300 884 122

Melbourne

51 Stubbs Street

Kensington VIC 3031

Tel. 03 9376 0988 Fax. 03 9376 0933

Perth

Unit 12, 279 Oxford Street

Leederville WA 6007

Tel. 08 9347 2400 Fax. 08 9347 2444

Terms & Conditions

All standard Georg Fischer terms and conditions apply.

