GF Piping Systems

+GF+

Industrial Applications
Australian Product Range 2024

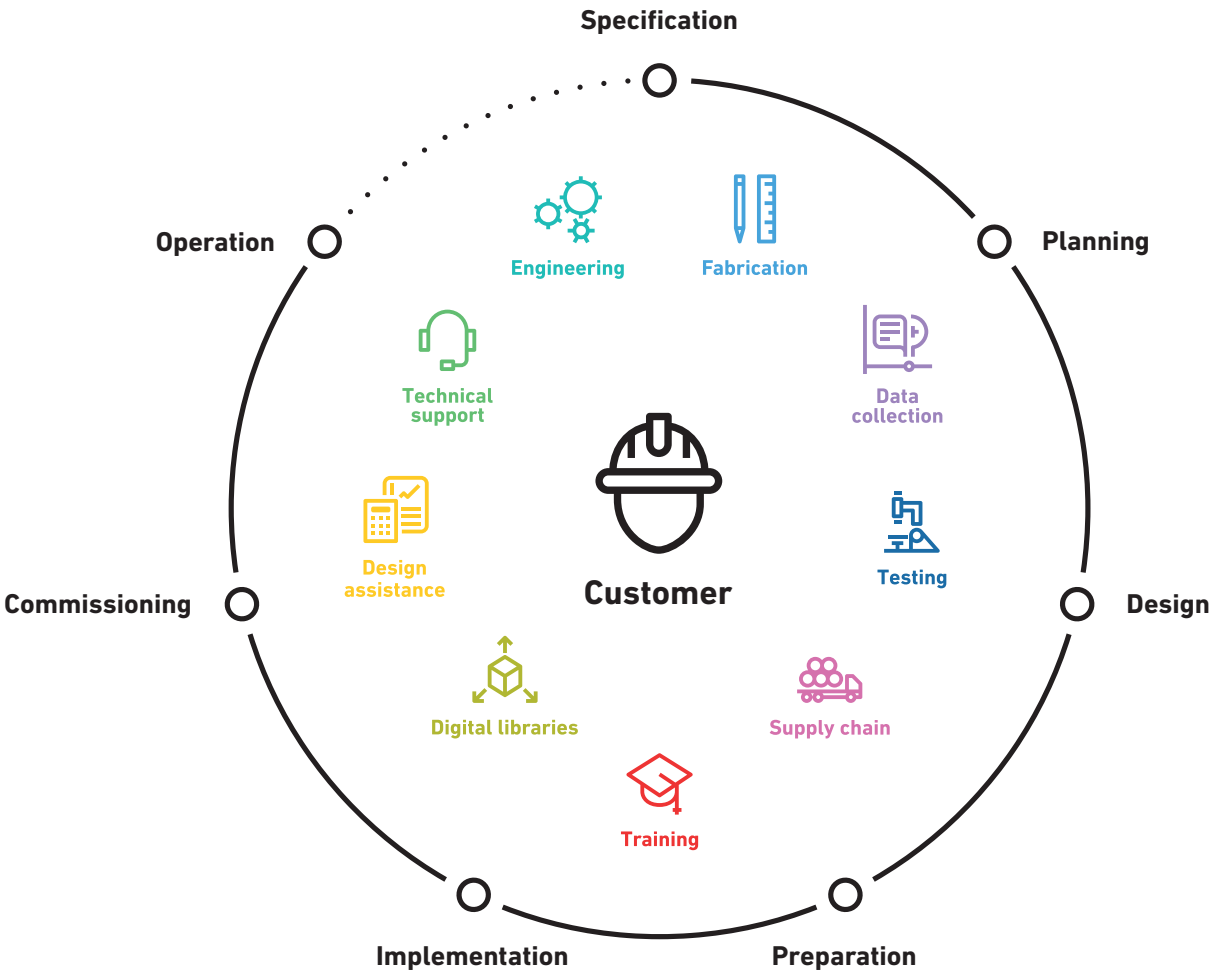
PVC-U, PVC-C and Double-See™

List of abbreviations

ANSI	American National Standard
ASTM	American Society for Testing and Materials
BS	British Standard
DIN	Deutsche Industrie-Normen
ISO	International Standardization Organisation
ABS	Acrylnitril Butadien Styrene
PVC-U	Polyvinyl Chloride unplasticized
PVC-C	Polyvinyl Chloride chlorinated
PP	Polypropylene, heat stabilised
PP-N	Polypropylene, Random copolymer unpigmented
PE	Polyethylene
PVDF	Polyvinylidene fluoride
EPDM	Ethylene Propylene Diene Monomer
FKM	Fluorine Rubber, e.g. Viton®
NBR	Nitrile Butadiene Rubber
IIR	Butyl Rubber
CSM	Chlore Sulphonyl Polythene, e.g. Hypalon®
CR	Chloroprene Rubber, e.g. Neoprene®
PROGEF	GF of PP
PTFE	Polytetrafluorethylene, e.g. Teflon®
UP-GF	Unsaturated polyester resin glassfibre reinforced
St	Steel
Ms	Brass
Tg	Malleable Iron
d	Pipe outside diameter
FM	Fusion Method
DN	Nominal diameter
PN	Nominal pressure at 20°C, water
kg	Weight in kilograms
g	Weight in grams
SP	Standard pack. The figure given indicates the quantity of fittings contained in a standard pack
GP	Gross pack. The figure given indicates the quantityof fittings contained in a gross pack
G	Pipe thread, not pressure tight in the thread to ISO 228/1
NPT	Taper male thread pressure tight in the thread to ANSI B 1.20.1
R	Taper male thread, pressure tight in the thread to ISO 7/DIN 2999/1
Rc	Taper female thread, pressure tight in the thread to ISO 7/1
Rp	Parallel female thread, pressure tight in the thread to ISO 7/DIN 999/1
Tr	Trapezoid thread
SC	Size of hexagon bolts
s	A/F
e	Wall thickness
AL	Number of bolt holes
®	Registered trade-mark

One partner from planning to commissioning

With Specialized Solutions, the global leader GF Piping Systems provides project support every step of the way to achieve construction excellence. Allowing owners and planners to concentrate on their daily business without interruption.



ProSite

ProSite from GF Piping Systems is the logistics solution that reduces the administration effort of ordering, reordering, and accounting of piping system components. It simplifies the stock management of installation projects, reducing necessary workforce and related costs, supporting your team and project design process from the outset to ensure that a sustainable and efficient solution is achieved. Material flow, ready when you are.

Training

GF Piping Systems instructional courses to help you teach your customers and their installers essential knowledge for the welding of pipes and piping components, as well as in-depth knowledge of butt and electrofusion connections. With Specialized education from GF Piping Systems, we help prevent damage before it occurs, with well-trained and qualified installers. Trusted training, empowering you.

Condition Analysis

Having your individual needs and application in focus, our customizing teams forge the solution that fits you best, developing custom-made parts to complete systems or special solutions produced in small series, individual consulting and off-site prefabrication.

Design Assistance

Our Design Assistance includes providing technical manuals on a multitude of topics and an extensive CAD library. From detailed information on products, systems and materials to practical online calculation tools and personal assistance, we back you with our expertise. Valuable insight, the tools you need.

Technical Hotline

Our customer support comprises an international team of experts, which works closely with local sales companies. This pool of highly trained individuals is available to resolve any questions or problems that may arise as your project comes to life. Superior help, when you need it.

www.gfps.com/specialized-solutions
aus_customerservice@georgfischer.com

Next steps

In this catalogue, you have received the most important information and technical details. But nothing replaces a personal conversation with an expert from GF Piping Systems. It is all about your needs and how we can support you in your daily business challenges. If you have not already done so, make an appointment today.

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

More information please visit
www.gfps.com/au

PVC-U Piping System

The piping system made of PVC-U material can be used for operating temperatures in the range of 0 °C to +60 °C. Thanks to outstanding chemical resistance, PVC-U piping systems withstand demanding conditions, particularly during the transport of aggressive media, such as acids, bases and salts. The PVC-U system is widely used in the chemical and textile industry, in water treatment processes, for drinking water applications and vacuum lines.

Pipes

Fittings

Jointing technology

Automation

Valves

Essential system properties

- Food and drinking water approvals, proven physiological harmlessness
- First-class solution for aggressive media, such as acids, bases and salts
- Space-saving installation with PRO-FIT spigot-socket fittings
- Safe and simple joining technologies with low costs for tools and materials

Most important market segments

- Water treatment
- Chemical process industry
- Marine
- Microelectronics
- Energy

Technical data

Nominal pressure	Up to 16 bar
Temperature range	0 °C to +60 °C
Jointing technology	Solvent cementing
Standards and guidelines[1)]	ISO, EN, ASTM, BS, JIS, CE, RoHS, DIN, DVS
Approvals[1)]	DIBT, DVGW, GOST-R, DGS (ACS), WRAS, KIWA, CSTB, IIP, ABS, BV, CCS, DNV-GL, LR, RINA, RMROS

[1)] For additional information about standards, guidelines and approvals, see www.gfps.com

PVC solvent cement training video

IPS Weld-On® installation guide and videos

Polyvinyl chloride, unplasticized (PVC-U)

PVC-U properties (reference values)

Property	Value[1]	Units	Test standard
Density	1.38	g/cm³	EN ISO 1183-1
Yield stress at 23 °C	≥ 54	N/mm²	EN ISO 527-1
Tensile e-modulus at 23 °C	≥ 2,700	N/mm²	EN ISO 527-1
Charpy notched impact strength at 23 °C	≥ 3	kJ/m²	EN ISO 179-1/1eA
Charpy notched impact strength at 0 °C	≥ 2	kJ/m²	EN ISO 179-1/1eA
Vicat-heat distortion temperature B/50N	≥ 76	°C	ISO 306
Thermal conductivity at 23 °C	0.15	W/m K	EN 12664
Water absorption at 23 °C	≤ 0.1	%	EN ISO 62
Color	7,011	-	RAL
Limiting oxygen index (LOI)	42	%	ISO 4589-1

[1] Typical characteristics measured at the material should not be used for calculations.

General

Polyvinylchloride (PVC) is one of the most important and oldest plastics. Worldwide consumption of PVC is exceeded only by PE and PP. PVC was produced for the first time as early as the middle of the 19th century. But an industrial manufacturing process was not patented until the year 1913. Nowadays, many industrial applications could not be implemented without PVC, but PVC has also become irreplaceable in the use of daily products.

PVC is a polymer having approximately 56 % by weight of chlorine. The PVC resin becomes a processable and usable material only by using additives. The choice of the additives allows a wide variation of its characteristics and an adjustment to the planned application. There are two classes of PVC materials. Soft PVC (PVC-P) which is created by adding plasticizers (e.g. phthalates). This type is not used at GF Piping Systems. Hard PVC, also called unplasticized PVC (PVC-U), is used for piping system construction.

PVC-U is an amorphous thermoplastic. The properties of PVC-U molded parts are strongly dependent on the composition of the individual components, but also on the processing. Because of our 65 years of experience in PVC processing and the continuous advancement of our own formulation of materials, GF Piping Systems has become a benchmark in the field of PVC-U piping. Long-term creep strength was tested in long-term tests according to ISO 1167 and calculated according to ISO 9080. According to ISO 12162, our PVC-U types are classified as MRS 25.

Advantages of PVC-U

- Versatility of use
- Very good chemical and corrosion resistance
- Proven physiological harmlessness and therefore suitable for contact with food
- No influence on drinking water quality
- Biologically inert; no support of microbial growth
- High mechanical tensile strength
- Secure solvent cementing using Tangit
- Use of tin stabilizers for fittings and valves

UV and weather resistance

PVC-U is very weather-resistant. Even longer exposure to direct sunlight, wind and rain does hardly any damage to the material. In extreme applications, it can be advantageous to protect the material from direct sunlight exposure. Despite its very good weather resistance to ultraviolet radiation, PVC-U loses some of its impact strength. Contact your GF Piping Systems representative for suitable protective measures.

Chemical resistance

PVC-U shows a good resistance against a broad range of media. For detailed information, observe the comprehensive list of chemical resistance from GF Piping Systems or contact an authorized GF Piping Systems representative.

Abrasion resistance

As a relatively hard thermoplastic, the resistance of PVC-U against abrasive stress is lower than those of other pipe materials. For this reason, it is seldom used for applications in the area of solid transport.

Application limits

The application limits of the material on the one hand depend on embrittlement and softening temperatures and on the other hand on the nature and the expected service life of the application. The pressure-temperature diagrams give details on application temperatures and pressures.

Combustion behavior

The high chlorine content of PVC-U causes an advantageous combustion behavior. Self-ignition resulting from temperature influences occurs only at 450 °C. PVC-U burns when exposed to an open flame, but extinguishes immediately after removing the flame. The oxygen index (LOI) amounts to 42 % (materials that burn with less than 21 % of oxygen in the air are considered to be flammable).

PVC-U thus also falls in the best flammability class V0 according to UL94, and in the building materials classes:

- B1 (flame retardant) for pipe wall thicknesses less than 3.2 mm
- B2 (normal flammable) for pipe wall thicknesses greater than 3.2 mm according to DIN 4102-1. According to the French test method NF P 92-501, PVC-U from GF Piping Systems is tested as M2.

Because the combustion of PVC-U produces hydrogen chloride, which forms a corrosive acid in connection with water, immediate cleaning of areas susceptible to corrosion is necessary after a fire. Danger to personnel from hydrochloric acid (HCl) is minimal because its pungent odor allows early escape from toxic combustion gases, mainly from the odorless carbon monoxide. There are no restrictions for the choice of firefighting agents.

Electrical properties

PVC-U, like all unmodified thermoplastics, is non-conductive. This means that no electrochemical corrosion takes place in PVC-U systems. On the other hand, these non-conductive properties have to be taken into account because an electrostatic charge can develop in the piping. Special attention must be paid to this fact in environments in which explosive gases may occur. Various methods are available to prevent the occurrence of electrostatic charges. GF Piping Systems representatives can provide support in selecting the right one. The specific volume resistance is at least 1,015 Ωcm.

Physiological properties

The PVC-U formulas were developed by GF Piping systems for use with drinking water and food. PVC-U's physiological harmlessness regarding neutral, acidic and alcoholic foodstuffs, and the non-influence on drinking water with respect to odor, taste or microbiological effects are not affected and regularly checked and monitored by neutral institutions in various countries. GF Piping Systems offers PVC-U systems free from lead and cadmium for your applications in the fields of drinking water or food. The residual monomer content of vinyl chloride lies below the detection limit of modern analytical methods. For details regarding existing approvals for applications with drinking water or foodstuffs, please contact your authorized GF Piping Systems representative.

PVC-C Piping System

PVC-C piping systems, having an operational temperature range from 0 °C to 80 ˚C, are suitable for high temperature environments. The excellent mechanical properties such as a high tensile strength, stiffness and impact strength are evident even at increased temperatures. PVC-C systems are used wherever aggressive media such as mixed acid waste or acids at a high temperature are transported, for example, in the chemical, paper and pulp industry or in metal treatment and microelectronic production.

Pipes

Fittings

Jointing technology

Automation

Valves

Essential system properties

- Very good mechanical properties, even at higher temperatures
- Flame-retardant and self-extinguishing
- Safe and simple jointing technology with low costs for tools and materials

Most important market segments

- Chemical process industry
- Marine
- Microelectronics
- Energy

Technical data

Nominal pressure	Up to 16 bar
Temperature range	0 °C to 80 °C
Jointing technology	Solvent cementing
Standards and guidelines[1)]	ISO, EN, ASTM, BS, JIS, CE, RoHS, DIN, DVS
Approvals[1)]	DGS (ACS), WRAS, GOST-R, ABS, BV, CCS, DNV-GL, LR, RINA, RMROS

[1)] For additional information about standards, guidelines and approvals, see www.gfps.com

PVC solvent cement training video

IPS Weld-On® installation guide and videos

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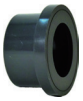	PVC-U Stub Flanges and Backing Rings	209
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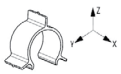
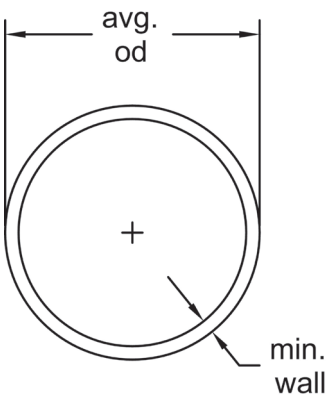
	Double-See™ Piping System	286

PVC-U Schedule 80 Pipes



PVC-U Schedule 80 Pipe - 19ft lengths (5.8m) GFCN

Model:

- Colour: dark grey
- AS/NZS 4020 DWC Approved
- Raw Material: PVC Type I Grade 1 material as defined by ASTM D1785 Appendix. Cell class 12454

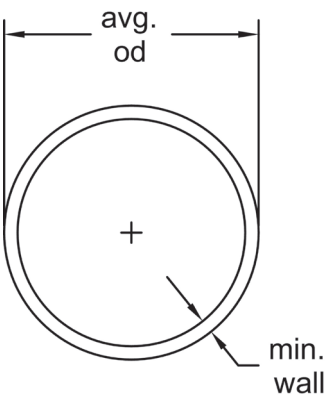
Inch (inch)	OD (mm)	ID (mm)	min. wall (mm)	Weight (kg/m)	Code	Max Water Pressure (psi)
½	21.3	13.4	3.70	0.31	**300 160 205**	848
¾	26.7	18.3	3.90	0.41	**300 160 207**	688
1	33.4	23.7	4.50	0.61	**300 160 210**	630
1 ¼	42.2	31.9	4.90	0.84	**300 160 212**	520
1 ½	48.3	37.5	5.10	1.02	**300 160 215**	471
2	60.3	48.6	5.50	1.46	**300 160 220**	404
2 ½	73.0	58.2	7.00	2.15	**300 160 225**	425
3	88.9	72.7	7.60	2.88	**300 160 230**	375
4	114.3	96.2	8.60	4.21	**300 160 240**	324
6	168.3	144.8	11.00	8.04	**300 160 260**	279

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-U Schedule 80 Pipe - 20ft lengths (6.1m)

- Meets NSF®-pw-G
- Meets CAN/CSA B137.3 Requirements

Size (inch)	Code	Average O.D. (mm)	Min. Wall (mm)	Weight (kg/m)	Max Water Pressure (psi)
¼	H0800025 PG2000	13.7	3.0	0.15	1130
⅜	H0800038 PG2000	17.1	3.2	0.21	920
8	H0800000 PG2000	219.1	12.7	11.99	250
10	H0801000 PG2000	273.1	15.1	17.79	230
12	H0801200 PG2000	323.9	17.4	24.46	230
14	H0801400 PG2000	355.6	19.1	29.45	220
16	H0801600 PG2000	406.4	21.4	37.84	220

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						

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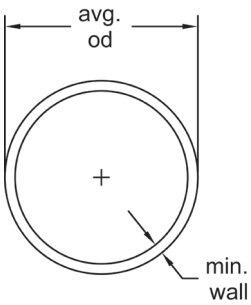
2 Pressure rating values are for PVC (12454-B) pipe and for most values are calculated from the experimentally determined long term strength of PVC1 extrusion compounds. Because moulding compounds may differ in long term strength and elevated temperature properties from pipe compounds, piping systems 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 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.
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Pressure ratings given are 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: 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 Temperature (bar) @ 23˚C	Code	Weight (kg)
½	21	3	15	21	**200 060 180**	0.314
¾	27	3	21	17	**200 060 181**	0.426
1	33	4	26	16	**200 060 182**	0.638
1 ¼	42	4	35	13	**200 060 183**	0.881
1 ½	48	4	40	12	**200 060 184**	1.081
2	60	4	52	10	**200 060 185**	1.452
2 ½	73	6	62	11	**200 060 186**	2.227
3	89	6	77	9	**200 060 187**	2.956
4	114	6	102	8	**200 060 188**	4.228
6	168	8	153	7	**200 060 189**	8.214
8	219	8			**200 060 190**	12.943
10	273	9			**200 060 461**	15.000

PVC-U Schedule 80 Fittings

(All Schedule 80 threads are NPT)

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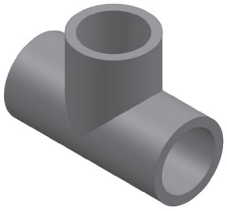
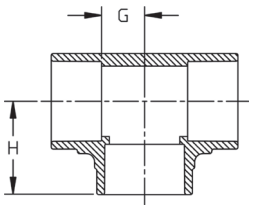
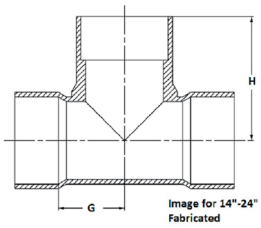
Tees

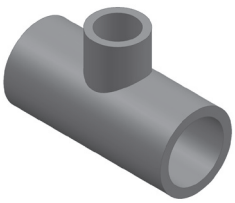


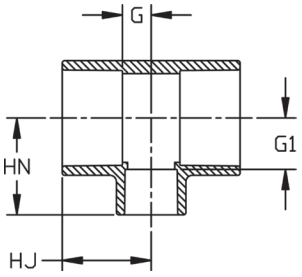


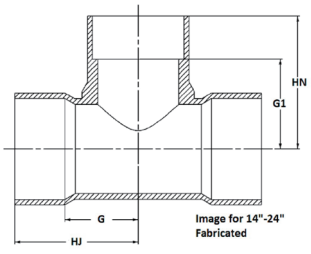


Tee (S x S x S)

Size (inch)	P/L	Code	Pack Qty	H (inch)	G (inch)	Design
¼	08	**801-002**	50	0.95	0.27	HS
⅜	08	**801-003**	50	1.16	0.38	HS
½	08	**801-005**	25	1.41	0.51	SL
¾	08	**801-007**	25	1.60	0.58	SL
1	08	**801-010**	20	1.85	0.71	SL
1 ¼	08	**801-012**	10	2.17	0.91	SL
1 ½	08	**801-015**	10	2.43	1.04	SL
2	08	**801-020**	10	2.81	1.30	SL
2 ½	08	**801-025**	5	3.31	1.55	SL
3	08	**801-030**	5	3.71	1.81	SL
4	08	**801-040**	5	4.60	2.33	SL
6	08	**801-060**	2	6.53	3.51	SL
8	08	**801-080**	1	8.66	4.58	SL
10	02	**801-100**	1	10.79	5.78	SL
12	02	**801-120**	1	12.96	6.94	SL
14	05	**801-140N**	1	19.50	10.88	FAB
16	05	**801-160N**	1	22.75	12.13	FAB
18	05	**801-180N**	1	26.00	13.38	FAB
20	05	**801-200N**	1	28.25	14.63	FAB
24	05	**801-240N**	1	34.50	17.13	FAB



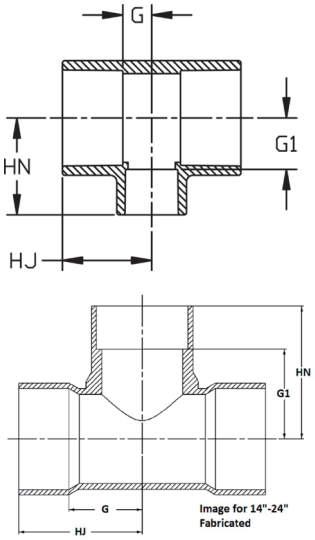




Reducing Tee (S x S x S)

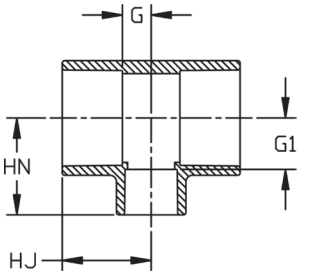
Size (inch)	P/L	Code	Pack Qty	HJ (inch)	HN (inch)	G (inch)	G1 (inch)	Design
¾ x ½	08	**801-101**	25	1.62	1.62	0.60	0.72	SL
1 x ½	08	**801-130**	25	1.87	1.64	0.72	0.74	SL
1 x ¾	08	**801-131**	20	1.86	1.89	0.72	0.75	SL
1 ¼ x ½	608	**801-166FB**	20	1.99	2.35	0.73	1.47	BUSH
1 ¼ x ¾	608	**801-167FB**	20	1.99	2.35	0.73	1.33	BUSH
1 ¼ x 1	08	**801-168**	20	2.01	2.05	0.73	0.91	SL
1 ½ x ½	08	**801-209**	5	1.92	1.91	0.53	1.03	SL
1 ½ x ¾	08	**801-210**	5	1.99	2.07	0.60	1.05	SL
1 ½ x 1	08	**801-211**	5	2.12	2.17	0.72	1.03	SL
1 ½ x 1 ¼	608	**801-212FB**	5	2.44	2.74	1.04	1.47	BUSH
2 x ½	08	**801-247**	5	1.99	2.16	0.54	1.28	SL
2 x ¾	08	**801-248**	5	2.22	2.31	0.60	1.30	SL
2 x 1	08	**801-249**	5	2.24	2.42	0.72	1.27	SL
2 x 1 ¼	08	**801-250FB**	5	2.81	3.11	1.30	1.84	BUSH
2 x 1 ½	08	**801-251**	5	2.54	2.66	1.03	1.27	SL
2 ½ x ½	608	**801-287FB**	5	3.05	3.35	1.28	2.44	BUSH
2 ½ x ¾	608	**801-288FB**	5	3.05	3.35	1.28	2.33	BUSH
2 ½ x 1	608	**801-289FB**	5	3.05	3.36	1.28	2.22	BUSH
2 ½ x 1 ¼	608	**801-290FB**	5	3.05	3.34	1.28	2.07	BUSH
2 ½ x 1 ½	608	**801-291FB**	5	3.05	3.35	1.28	1.94	BUSH
2 ½ x 2	08	**801-292**	5	3.05	3.05	1.28	1.54	SL
3 x ½	608	**801-333FB**	5	3.20	3.68	1.30	2.77	BUSH
3 x ¾	608	**801-334FB**	5	3.20	3.68	1.30	2.66	BUSH
3 x 1	608	**801-335FB**	5	3.20	3.69	1.30	2.55	BUSH
3 x 1 ¼	608	**801-336FB**	5	3.20	3.67	1.30	2.40	BUSH
3 x 1 ½	608	**801-337FB**	5	3.20	3.68	1.30	2.27	BUSH
3 x 2	08	**801-338**	5	3.20	3.39	1.30	1.87	SL
3 x 2 ½	608	**801-339FB**	5	3.73	4.07	1.81	2.17	BUSH
4 x ½	608	**801-415FB**	5	3.52	4.19	1.27	3.28	BUSH

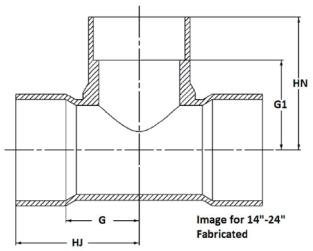
table continued on the next page



Size (inch)	P/L	Code	Pack Qty	HJ (inch)	HN (inch)	G (inch)	G1 (inch)	Design
4 x ¾	608	**801-416FB**	5	3.52	4.19	1.27	3.17	BUSH
4 x 1		**801-417**	5	2.99	3.49	0.74	2.36	
4 x 1 ¼	608	**801-418FB**	5	3.52	4.18	1.27	2.91	BUSH
4 x 1 ½	08	**801-419FB**	5	3.52	4.19	1.27	2.78	BUSH
4 x 2	08	**801-420**	5	3.54	3.87	1.27	2.37	SL
4 x 2 ½	608	**801-421FB**	5	4.14	4.62	1.85	2.73	BUSH
4 x 3	08	**801-422**	5	4.13	4.26	1.85	2.35	SL
6 x ½	608	**801-523FB**	2	6.56	7.42	3.56	6.52	BUSH
6 x ¾	608	**801-524FB**	2	6.56	7.43	3.49	6.41	BUSH
6 x 1	608	**801-525FB**	2	6.56	7.44	3.49	6.29	BUSH
6 x 1 ¼	608	**801-526FB**	2	6.56	7.42	3.49	6.15	BUSH
6 x 1 ½	608	**801-527FB**	2	6.56	7.42	3.49	6.02	BUSH
6 x 2	608	**801-528**	2	4.45	5.25	1.43	3.74	SL
6 x 2 ½	608	**801-529FB**	2	6.56	7.52	3.49	5.62	BUSH
6 x 3	08	**801-530FB**	2	6.56	7.21	3.49	5.25	BUSH
6 x 4	08	**801-532**	2	6.57	6.80	3.49	4.47	HS
6 x 5	H04	**801-533FS**	1	9.00	9.50	5.75	6.50	FAB
8 x 4	608	**801-582**	2	8.41	8.53	4.29	6.30	SL
8 x 6	08	**801-585**	1	7.65	7.54	3.55	4.63	SL
10 x 1 ½	A33	**801-618N**	1	10.75	12.00	5.75	9.50	FAB
10 x 2	05	**801-619N**	1	10.75	12.00	5.75	11.00	FAB
10 x 3	05	**801-621N**	1	10.75	12.00	5.75	9.50	FAB
10 x 4	05	**801-623N**	1	10.75	11.50	5.75	9.50	FAB
10 x 6	602	**801-626FB**	1	10.83	11.43	5.78	8.33	BUSH
10 x 6	05	**801-626N**	1	11.88	12.50	6.88	9.50	FAB
10 x 8	02	**801-628FB**	1	10.83	11.46	5.78	7.36	BUSH
10 x 8	05	**801-628N**	1	13.00	13.50	8.00	9.50	FAB
12 x 2	05	**801-659N**	1	12.00	13.25	6.00	11.75	FAB
12 x 3	05	**801-661N**	1	12.00	13.25	6.00	11.25	FAB
12 x 4	05	**801-663N**	1	12.00	12.75	6.00	10.75	FAB
12 x 6	05	**801-666N**	1	13.13	13.75	7.13	10.75	FAB
12 x 8	602	**801-668FB**	1	12.99	13.67	6.94	9.58	BUSH
12 x 8	05	**801-668N**	1	14.13	14.75	8.13	10.75	FAB
12 x 10	02	**801-670FB**	1	12.99	13.68	6.94	8.57	BUSH
12 x 10	05	**801-670N**	1	15.13	15.75	9.13	10.75	FAB
14 x 2	05	**801-692N**	1	13.13	14.00	6.13	11.50	FAB
14 x 3	05	**801-694N**	1	13.13	14.00	6.13	11.50	FAB
14 x 4	05	**801-696N**	1	13.13	13.50	6.13	11.50	FAB
14 x 6	05	**801-698N**	1	14.25	14.50	7.25	11.50	FAB
14 x 8	05	**801-700N**	1	15.25	15.50	8.25	11.50	FAB
14 x 10	05	**801-702N**	1	16.25	16.50	9.25	11.50	FAB
14 x 12	05	**801-704N**	1	17.25	18.50	10.25	12.50	FAB
16 x 2	05	**801-726N**	1	14.38	15.25	6.38	12.75	FAB
16 x 3	05	**801-728N**	1	14.38	15.25	6.38	14.25	FAB
16 x 4	05	**801-730N**	1	14.38	14.75	6.38	12.75	FAB
16 x 6	05	**801-732N**	1	15.50	15.75	7.50	12.75	FAB
16 x 8	05	**801-734N**	1	16.50	16.75	8.50	12.75	FAB
16 x 10	05	**801-736N**	1	17.50	17.75	9.50	12.75	FAB
16 x 12	05	**801-738N**	1	18.50	19.75	10.50	13.75	FAB
16 x 14	05	**801-740N**	1	19.13	20.75	11.75	13.75	FAB
18 x 4	05	**801-784N**	1	15.63	16.00	6.63	14.00	
18 x 6	05	**801-786N**	1	16.75	17.00	7.75	14.00	
18 x 8	05	**801-788N**	1	17.75	18.00	8.75	14.00	
18 x 10	05	**801-790N**	1	18.75	19.00	9.75	14.00	
18 x 12	05	**801-792N**	1	19.75	21.00	10.75	15.00	
18 x 14	05	**801-794N**	1	20.88	22.00	11.88	15.00	
18 x 16		**801-796N**	1	21.38	24.00	12.38	16.00	
20 x 4		**801-814N**	1	16.88	17.25	6.88	15.25	
20 x 6		**801-816N**	1	18.00	18.25	8.00	15.25	
20 x 8		**801-818N**	1	19.00	19.25	9.00	15.25	
20 x 10		**801-820N**	1	20.00	20.25	10.00	15.25	
20 x 12		**801-822N**	1	21.00	22.25	11.00	16.25	
20 x 14		**801-824N**	1	21.63	23.25	11.63	16.25	

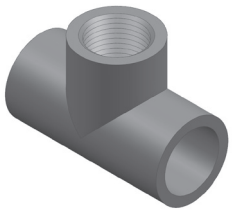
table continued on the next page

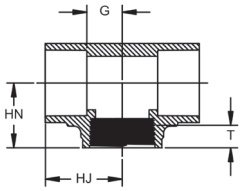




Size (inch)	P/L	Code	Pack Qty	HJ (inch)	HN (inch)	G (inch)	G1 (inch)	Design
20 x 16		**801-826N**	1	22.63	25.25	12.63	17.25	
20 x 18		**801-828N**	1	23.63	27.25	13.63	18.25	
24 x 4		**801-904N**	1	19.38	19.50	7.38	17.50	
24 x 6		**801-906N**	1	20.50	20.50	8.50	17.50	
24 x 8		**801-908N**	1	21.50	21.50	9.50	17.50	
24 x 10		**801-910N**	1	22.50	22.50	10.50	17.50	
24 x 12		**801-912N**	1	23.50	24.50	11.50	18.50	
24 x 14		**801-914N**	1	24.13	25.50	12.13	18.50	
24 x 16		**801-916N**	1	25.13	27.50	13.13	19.50	
24 x 18		**801-918N**	1	26.13	29.50	14.13	20.50	
24 x 20		**801-920N**	1	27.13	30.50	15.13	20.50	

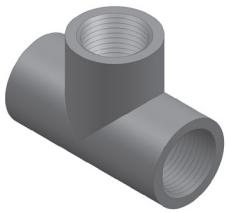
Tee (S x S x FPT)

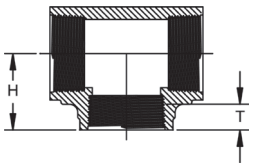




Size (inch)	P/L	Code	Pack Qty	HJ (inch)	HN (inch)	G (inch)	T (inch)	Design
½	08	**802-005**	25	1.41	1.30	0.53	0.81	HS
¾	08	**802-007**	25	1.60	1.37	0.60	0.71	HS
1	08	**802-010**	15	1.83	1.73	0.69	0.99	HS
1 ½	08	**802-015**	5	2.41	2.08	1.02	1.04	HS
2	08	**802-020**	5	2.79	2.37	1.29	1.08	HS

Tee (FPT x FPT x FPT)

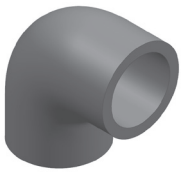


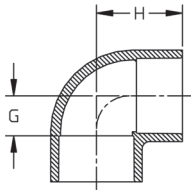


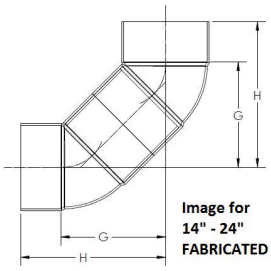
Size (inch)	P/L	Code	Pack Qty	H (inch)	T (inch)	Design
¼	08	**805-002**	50	0.94	0.59	HS
⅜	08	**805-003**	50	1.01	0.60	HS
½	08	**805-005**	25	1.26	0.76	HS
¾	08	**805-007**	25	1.36	0.72	HS
1	08	**805-010**	15	1.79	0.99	HS
1 ¼	08	**805-012**	10	1.93	1.01	HS
1 ½	08	**805-015**	5	2.08	1.03	HS
2	08	**805-020**	5	2.39	1.06	HS
2 ½	08	**805-025**	5	2.87	1.35	HS
3	08	**805-030**	5	3.52	1.65	HS
4	08	**805-040**	5	4.07	1.72	HS

Elbows

90° Elbow (SxS)

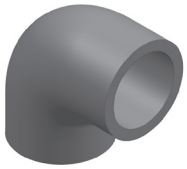


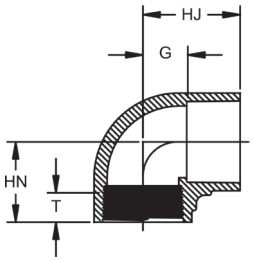




Size (inch)	P/L	Code	Pack Qty	H (inch)	G (inch)	Design
¼	08	**806-002**	50	0.96	0.35	HS
⅜	08	**806-003**	50	1.15	0.39	HS
½	08	**806-005**	25	1.41	0.51	SL
¾	08	**806-007**	25	1.60	0.57	SL
1	08	**806-010**	10	1.83	0.68	SL
1 ¼	08	**806-012**	10	2.18	0.90	SL
1 ½	08	**806-015**	10	2.43	1.04	SL
2	08	**806-020**	20	2.80	1.27	SL
2 ½	08	**806-025**	5	3.33	1.53	SL
3	08	**806-030**	5	3.73	1.81	SL
4	08	**806-040**	5	4.63	2.32	SL
6	08	**806-060**	2	6.56	3.53	SL
8	08	**806-080**	1	8.68	4.55	SL
10	02	**806-100**	1	10.79	5.77	SL
12	02	**806-120**	1	12.92	6.87	SL
14	05	**806-140N**	1	26.00	19.00	FAB
16	05	**806-160N**	1	29.00	21.75	FAB
18	A33	**806-180N**	1	33.50	24.50	FAB
20	A33	**806-200N**	1	37.25	27.25	FAB
24	A33	**806-240N**	1	44.75	31.00	FAB

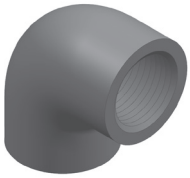
90° Elbow (SxFPT)

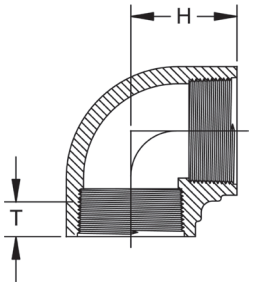




Size (inch)	P/L	Code	Pack Qty	HJ (inch)	HN (inch)	G (inch)	T (inch)	Design
½	08	**807-005**	25	1.40	1.31	0.50	0.81	HS
¾	08	**807-007**	25	1.59	1.36	0.58	0.72	HS
1	08	**807-010**	10	1.81	1.70	0.67	1.00	HS
1 ¼	08	**807-012**	10	2.15	1.92	0.90	1.03	HS
1 ½	08	**807-015**	10	2.39	2.05	1.01	1.05	HS
2	08	**807-020**	5	2.77	2.36	1.24	1.09	HS
3	08	**807-030**	5	3.73	3.47	1.83	1.66	HS

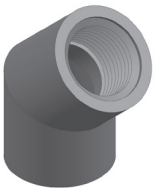
90° Elbow (FPTxFPT)

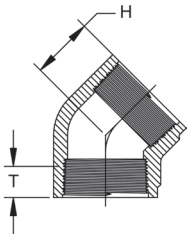




Size (inch)	P/L	Code	Pack Qty	H (inch)	T (inch)	Design
¼	08	**808-002**	50	0.94	0.61	HS
⅜	608	**808-003**	50	1.00	0.63	HS
½	608	**808-005**	25	1.27	0.78	HS
¾	08	**808-007**	25	1.36	0.72	HS
1	08	**808-010**	10	1.71	1.00	HS
1 ¼	08	**808-012**	10	1.92	1.01	HS
1 ½	08	**808-015**	10	2.08	1.06	HS
2	608	**808-020**	5	2.36	1.08	HS
2 ½	08	**808-025**	5	3.36	1.51	HS
3	608	**808-030**	5	3.53	1.63	HS
4	608	**808-040**	5	4.17	1.75	HS

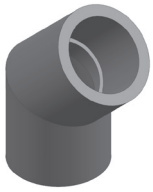
45° Elbow (FPT x FPT)

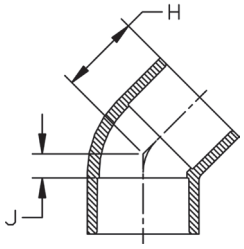




Size (inch)	P/L	Code	Pack Qty	H (inch)	T (inch)	Design
¼	08	**819-002**	50	0.69	0.59	HS
⅜	608	**819-003**	50	0.86	0.68	HS
½	608	**819-005**	25	1.02	0.76	HS
¾	608	**819-007**	20	1.14	0.81	HS
1	08	**819-010**	25	1.33	0.97	HS
1 ¼	608	**819-012**	15	1.42	1.01	SL
1 ½	608	**819-015**	10	1.47	1.07	SL
2	08	**819-020**	5	1.74	2.37	HS
3	08	**819-030**	5	2.43	1.66	SL
4	608	**819-040**	5	2.78	1.76	SL

45° Elbow (SxS)





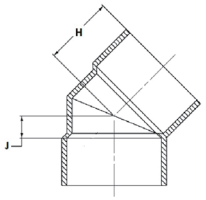
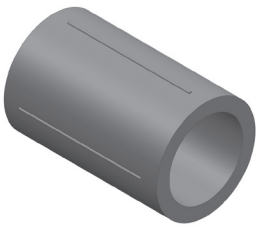


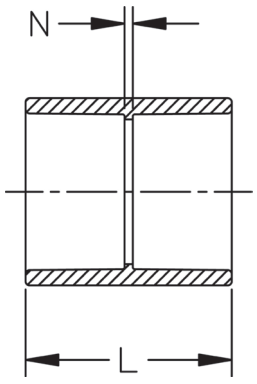
Image for 14"-24" Fabricated

Size (inch)	P/L	Code	Pack Qty	H (inch)	J (inch)	Design
¼	608	**817-002**	50	0.81	0.18	HS
⅜	608	**817-003**	50	0.94	0.19	HS
½	08	**817-005**	25	1.22	0.30	SL
¾	608	**817-007**	20	1.29	0.28	SL
1	608	**817-010**	25	1.48	0.32	SL
1 ¼	08	**817-012**	15	1.78	0.47	SL
1 ½	608	**817-015**	10	1.88	0.45	SL
2	608	**817-020**	5	2.16	0.60	SL
2 ½	08	**817-025**	5	2.56	0.79	SL
3	08	**817-030**	5	2.67	0.77	SL
4	608	**817-040**	5	3.31	1.04	SL
6	608	**817-060**	2	4.86	1.77	SL
8	08	**817-080**	2	6.15	2.07	SL
10	02	**817-100**	1	7.51	2.46	SL
12	602	**817-120**	1	9.00	2.96	SL
14	A33	**817-140N**	1	10.25	3.50	FAB
16	05	**817-160N**	1	11.75	3.75	FAB
18	A33	**817-180N**	1	13.25	4.25	FAB
20	A33	**817-200N**	1	14.75	4.75	FAB
24	A33	**817-240N**	1	17.75	5.75	FAB

Couplings and adaptors

Coupling (S x S)





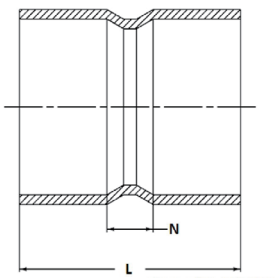
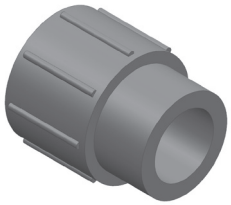
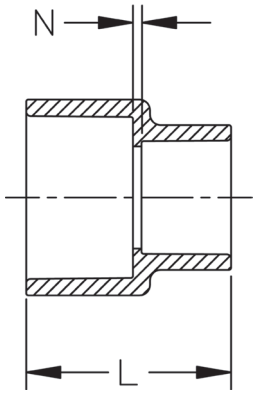
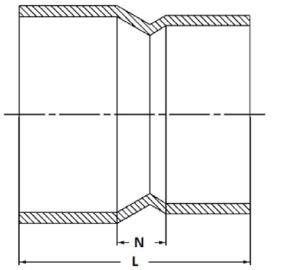


Image for 14"-24" Fabricated

Size (inch)	P/L	Code	Pack Qty	L (inch)	N (inch)	Design
⅜	08	**829-003**	50	1.65	0.11	HS
½	608	**829-005**	25	1.93	0.12	SL
¾	608	**829-007**	20	2.18	0.12	SL
1	608	**829-010**	25	2.41	0.12	SL
1 ¼	08	**829-012**	10	2.67	0.13	SL
1 ½	608	**829-015**	10	2.94	0.15	SL
2	08	**829-020**	20	3.18	0.13	SL
2 ½	08	**829-025**	5	3.77	0.19	SL
3	608	**829-030**	5	4.04	0.26	SL
4	08	**829-040**	5	4.80	0.26	SL
6	08	**829-060**	2	6.40	0.36	SL
8	608	**829-080**	2	8.40	0.35	SL
10	02	**829-100**	1	10.77	0.75	SL
12	602	**829-120**	1	12.82	0.75	SL
14	A33	**829-140N**	1	17.75	3.75	FAB
16	A33	**829-160N**	1	20.25	4.25	FAB
18	A33	**829-180N**	1	22.75	4.75	FAB
20	A33	**829-200N**	1	25.25	5.25	FAB
24	A33	**829-240N**	1	30.25	6.25	FAB





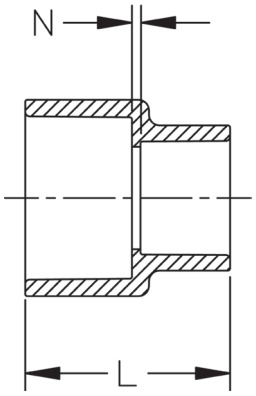


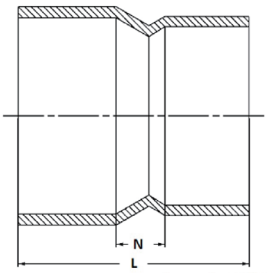
Imgae for 14"-24"
Fabricated

Reducing Coupling (S x S)

Size (inch)	P/L	Code	Pack Qty	L (inch)	N (inch)	Design
¾ x ½	08	**829-101**	20	2.13	0.13	HS
1 x ½	608	**829-130**	25	2.17	0.12	HS
1 x ¾	608	**829-131**	25	2.26	0.11	HS
1 ¼ x 1	08	**829-168**	10	2.52	0.10	HS
1 ½ x ½	608	**829-209FB**	10	2.94	0.66	BUSH
1 ½ x ¾	608	**829-210**	10	2.50	0.09	BUSH
1 ½ x 1	08	**829-211**	10	2.65	0.11	HS
1 ½ x 1 ¼	08	**829-212**	10	2.82	0.09	HS
2 x ½	08	**829-247FB**	5	3.44	0.87	BUSH
2 x ¾		**829-248**	5	3.14	0.34	
2 x 1	08	**829-249**	5	3.15	0.32	HS
2 x 1 ¼	08	**829-250**	5	3.05	0.14	HS
2 x 1 ½	08	**829-251**	5	3.06	0.07	HS
2 ½ x 1 ½	08	**829-291**	5	3.36	0.14	HS
2 ½ x 2	08	**829-292FB**	5	4.08	0.66	BUSH
3 x	608	**829-335FB**	5	4.56	1.53	BUSH
3 x 1 ¼	608	**829-336FB**	5	4.29	1.07	FAB
3 x 1 ½		**829-337FB**	5	4.58	1.15	BUSH
3 x 2	08	**829-338**	5	3.61	0.17	HS
3 x 2 ½	608	**829-339FB**	5	4.42	0.63	BUSH
4 x 2	08	**829-420FB**	5	4.94	1.08	BUSH
4 x	608	**829-422**	5	4.38	0.22	HS
6 x	608	**829-528FB**	2	10.61	4.60	BUSH
6 x	608	**829-530FB**	2	10.65	4.23	BUSH
6 x	608	**829-532**	2	10.17	3.46	HS
8 x	608	**829-582FB**	2	9.81	3.53	BUSH
8 x 6	08	**829-585**	2	9.18	2.11	HS
10 x	A33	**829-623N**	1	17.00	10.00	FAB
10 x 6	02	**829-626FB**	1	11.42	3.29	
10 x	A33	**829-626N**	1	13.00	5.00	FAB
10 x 8	02	**829-628FB**	1	11.45	2.32	BUSH
10 x	A33	**829-628N**	1	12.75	3.75	FAB
12 x	A33	**829-663N**	1	26.25	18.25	FAB
12 x	A33	**829-666N**	1	20.50	11.50	FAB
12 x	602	**829-668FB**	1	13.54	3.41	BUSH
12 x 8	05	**829-668N**	1	15.50	5.50	FAB
12 x 10	02	**829-670FB**	1	13.24	2.13	BUSH
12 x	A33	**829-670N**	1	15.00	4.00	FAB
14 x	A33	**829-696N**	1	21.00	3.00	FAB
14 x	A33	**829-698N**	1	31.00	21.00	FAB
14 x	A33	**829-700N**	1	24.50	13.50	FAB
14 x 10	05	**829-702N**	1	17.00	5.00	FAB
14 x	A33	**829-704N**	1	16.50	3.50	FAB
16 x	A33	**829-730N**	1	32.50	22.50	FAB
16 x	A33	**829-732N**	1	28.50	17.50	FAB
16 x	A33	**829-734N**	1	27.00	15.00	FAB
16 x	A33	**829-736N**	1	19.50	6.50	FAB
16 x 12	05	**829-738N**	1	19.25	5.25	FAB
16 x 14	05	**829-740N**	1	19.50	4.50	FAB
18 x	A33	**829-784N**	1	48.50	37.50	FAB
18 x	A33	**829-786N**	1	36.00	24.00	FAB
18 x	A33	**829-788N**	1	42.50	26.00	FAB
18 x	A33	**829-790N**	1	33.50	19.50	FAB
18 x	A33	**829-792N**	1	22.00	7.00	FAB
18 x	A33	**829-794N**	1	22.25	6.25	FAB
18 x	A33	**829-796N**	1	21.75	4.75	FAB
20 x	A33	**829-814N**	1	60.50	48.50	FAB
20 x	A33	**829-816N**	1	55.50	42.50	FAB
20 x	A33	**829-818N**	1	56.25	42.25	FAB
20 x	A33	**829-820N**	1	47.25	32.25	FAB
20 x	A33	**829-822N**	1	37.00	21.00	FAB

table continued on the next page

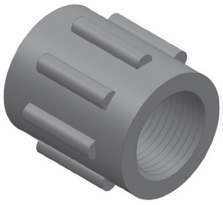


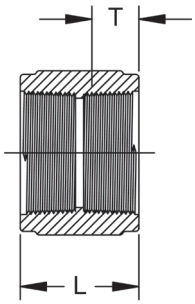


Imgae for 14"-24"
Fabricated

Size (inch)	P/L	Code	Pack Qty	L (inch)	N (inch)	Design
20 x 14	A33	**829-824N**	1	37.25	20.25	FAB
20 x 16	A33	**829-826N**	1	24.50	6.50	FAB
20 x 18	A33	**829-828N**	1	24.00	5.00	FAB
24 x 4	A33	**829-904N**	1	66.00	52.00	FAB
24 x 6	A33	**829-906N**	1	61.00	46.00	FAB
24 x 8	A33	**829-908N**	1	52.00	36.00	FAB
24 x 10	A33	**829-910N**	1	52.75	35.75	FAB
24 x 12	A33	**829-912N**	1	42.50	24.50	FAB
24 x 14	A33	**829-914N**	1	42.75	23.75	FAB
24 x 18	A33	**829-918N**	1	29.50	8.50	FAB
24 x 20	A33	**829-920N**	1	29.25	7.25	FAB
24 x 16	A33	**829-916N**	1	42.25	22.25	FAB

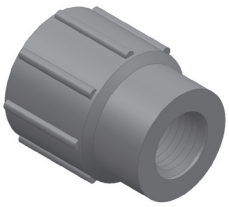
Coupling (FPT x FPT)

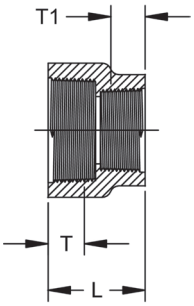




Size (inch)	P/L	Code	Pack Qty	L (inch)	T (inch)	Design
¼	608	**830-002**	50	1.29	0.61	HS
⅜	08	**830-003**	50	1.35	0.62	HS
½	608	**830-005**	25	1.68	0.77	HS
¾	08	**830-007**	20	1.75	0.80	SL
1	08	**830-010**	25	2.13	0.99	SL
1 ¼	608	**830-012**	10	2.19	1.03	SL
1 ½	08	**830-015**	10	2.22	1.03	HS
2	08	**830-020**	5	2.29	1.08	HS
2 ½	08	**830-025**	5	3.33	1.51	HS
3	608	**830-030**	5	3.53	1.65	HS
4	608	**830-040**	5	3.76	1.75	SL

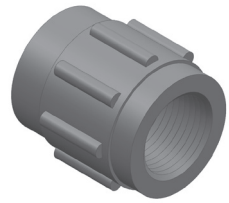
Reducing Coupling (FPT x FPT)

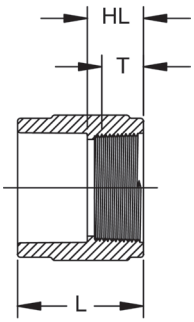




Size (inch)	P/L	Code	Pack Qty	L (inch)	T (inch)	T1 (inch)	Design
⅜ x ¼	608	**830-052**	50	1.29	0.60	0.59	HS
½ x ¼	608	**830-072**	50	1.44	0.75	0.59	HS
½ x ⅜	08	**830-073**	50	1.46	0.74	0.60	HS
¾ x ½	08	**830-101**	25	1.68	0.78	0.78	HS
1 x ½	608	**830-130**	25	1.84	0.98	0.77	HS
1 x ¾	08	**830-131**	25	1.88	0.98	0.80	HS
1 ¼ x ¾	08	**830-167**	25	1.90	1.00	0.79	HS
1 ½ x 1	08	**830-211**	20	2.06	1.02	0.95	HS
2 x 1 ½	608	**830-251**	10	2.18	1.05	1.02	HS

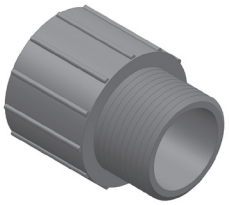
Female Adapter (S x FPT)

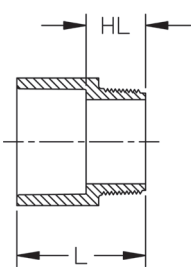




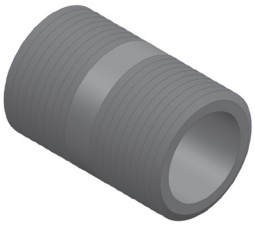
Size (inch)	P/L	Code	Pack Qty	HL (inch)	L (inch)	T (inch)	Design
¼	08	**835-002**	50	0.75	1.43	0.58	HS
⅜	608	**835-003**	50	0.75	1.56	0.62	HS
½	608	**835-005**	25	0.91	1.80	0.75	HS
¾	608	**835-007**	25	0.95	1.96	0.79	HS
1	608	**835-010**	25	1.11	2.27	0.98	HS
1 ¼	08	**835-012**	10	1.18	2.44	1.02	HS
1 ½	608	**835-015**	10	1.19	2.59	1.03	HS
2	608	**835-020**	5	1.25	2.76	1.06	HS
2 ½	08	**835-025**	5	1.77	3.53	1.51	HS
3	608	**835-030**	5	1.91	3.80	1.65	HS
4	08	**835-040**	5	2.02	4.29	1.74	HS
6	608	**835-060**	2	3.27	6.37	2.37	SL
8		**835-080**	2	4.35	8.36	2.35	
10		**835-100**	2	5.68	10.78	2.68	
12	A33	**835-120N**	1	6.00	11.13	2.13	FAB

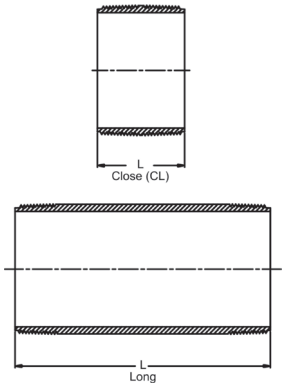
Male Adapter (S x MPT)





Size (inch)	P/L	Code	Pack Qty	HL (inch)	L (inch)	Design
½	608	**836-005**	50	0.94	1.85	SL
¾	08	**836-007**	25	1.05	2.03	HS
1	08	**836-010**	25	1.22	2.38	HS
1 ¼	08	**836-012**	15	1.28	2.56	HS
1 ½	608	**836-015**	10	1.30	2.69	HS
2	08	**836-020**	5	1.32	2.83	HS
2 ½	08	**836-025**	5	1.87	3.70	HS
3	608	**836-030**	5	1.99	3.90	HS
4	08	**836-040**	5	2.15	4.40	HS
6	05	**836-060N**	1	3.25	6.25	FAB
8	05	**836-080N**	1	3.50	7.50	FAB
10	05	**836-100N**	1	4.18	9.18	FAB
12	A33	**836-120N**	1	4.63	10.63	FAB





Nipple (MPT x MPT)

Inch (inch)	P/L	Code	Pack Qty	L (inch)	Design
1/2 x CL	608	**861-077**	50	1.13	MOLD
1/2 x 2	608	**861-079**	25	2.00	MOLD
1/2 x 3	608	**861-081**	25	3.00	MOLD
1/2 x 4	608	**861-082**	25	4.00	MOLD
1/2 x 5	608	**861-083**	25	5.00	MOLD
1/2 x 6	608	**861-084**	25	6.00	MOLD
1/2 x 8	608	**861-086**	25	8.00	FAB
1/2 x 10	608	**861-087**	25	10.00	FAB
1/2 x 12	608	**861-088**	25	12.00	FAB
3/4 x CL	608	**861-104**	25	1.38	MOLD
3/4 x 2	608	**861-020**	25	2.00	MOLD
3/4 x 3	608	**861-106**	25	3.00	MOLD
3/4 x 4	608	**861-107**	25	4.00	MOLD
3/4 x 5	608	**861-108**	25	5.00	MOLD
3/4 x 6	608	**861-109**	25	6.00	MOLD
3/4 x 8	608	**861-110**	25	8.00	FAB
3/4 x 10	608	**861-111**	25	10.00	FAB
3/4 x 12	608	**861-112**	25	12.00	FAB
1 x CL	608	**861-133**	25	1.50	MOLD
1 x 2	608	**861-134**	25	2.00	MOLD
1 x 3	608	**861-135**	25	3.00	MOLD
1 x 4	608	**861-136**	25	4.00	MOLD
1 x 5	608	**861-137**	25	5.00	MOLD
1 x 6	608	**861-138**	25	6.00	MOLD
1 x 8	608	**861-139**	25	8.00	FAB
1 x 10	608	**861-140**	25	10.00	FAB
1 x 12	608	**861-141**	25	12.00	FAB
1 1/4 x CL	608	**861-170**	25	1.63	MOLD
1 1/4 x 2	608	**861-171**	25	2.00	MOLD
1 1/4 x 3	608	**861-172**	25	3.00	MOLD
1 1/4 x 4	608	**861-173**	25	4.00	MOLD
1 1/4 x 5	608	**861-174**	25	5.00	MOLD
1 1/4 x 6	608	**861-175**	25	6.00	MOLD
1 1/4 x 8	608	**861-176**	25	8.00	FAB
1 1/4 x 10	608	**861-177**	25	10.00	FAB
1 1/4 x 12	608	**861-178**	25	12.00	FAB
1 1/2 x CL	608	**861-213**	25	1.75	MOLD
1 1/2 x 2	608	**861-214**	25	2.00	MOLD
1 1/2 x 3	608	**861-215**	25	3.00	MOLD
1 1/2 x 4	608	**861-216**	25	4.00	MOLD
1 1/2 x 5	608	**861-217**	25	5.00	MOLD
1 1/2 x 6	608	**861-218**	25	6.00	MOLD
1 1/2 x 8	608	**861-219**	25	8.00	FAB
1 1/2 x 10	608	**861-220**	25	10.00	FAB
1 1/2 x 12	608	**861-221**	25	12.00	FAB
2 x CL	608	**861-251**	25	2.00	MOLD
2 x 2 1/2	608	**861-252**	25	2.50	MOLD
2 x 3	608	**861-253**	25	3.00	MOLD
2 x 4	608	**861-254**	25	4.00	MOLD
2 x 5	608	**861-255**	25	5.00	MOLD
2 x 6	608	**861-256**	25	6.00	MOLD
2 x 8	608	**861-257**	25	8.00	FAB
2 x 10	608	**861-258**	25	10.00	FAB
2 x 12	608	**861-259**	25	12.00	FAB
2 1/2 x CL	608	**861-291**	10	2.50	FAB
2 1/2 x 4	608	**861-295**	10	4.00	FAB
2 1/2 x 3	608	**861-292**	10	3.00	FAB
2 1/2 x 5	608	**861-296**	10	5.00	FAB
2 1/2 x 6	608	**861-297**	10	6.00	FAB
2 1/2 x 8	608	**861-298**	10	8.00	FAB
2 1/2 x 10	608	**861-299**	10	10.00	FAB

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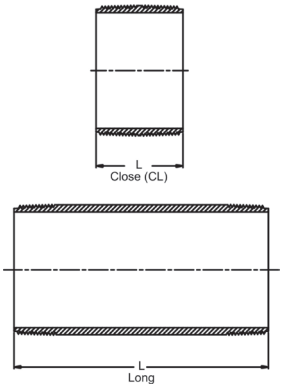
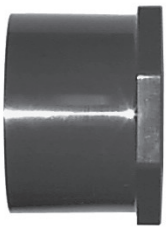
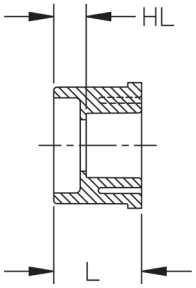


Inch (inch)	P/L	Code	Pack Qty	L (inch)	Design
2 1/2 x 12	608	**861-300**	10	12.00	FAB
3 x CL	608	**861-338**	10	2.63	FAB
3 x 3	608	**861-340**	10	3.00	FAB
3 x 4	608	**861-341**	10	4.00	FAB
3 x 5	608	**861-342**	10	5.00	FAB
3 x 6	608	**861-343**	10	6.00	FAB
3 x 8	608	**861-344**	10	8.00	FAB
3 x 10	608	**861-345**	10	10.00	FAB
3 x 12	608	**861-346**	10	12.00	FAB
4 x CL	608	**861-422**	10	2.88	FAB
4 x 4	608	**861-423**	10	4.00	FAB
4 x 5	608	**861-425**	10	5.00	FAB
4 x 6	608	**861-426**	10	6.00	FAB
4 x 8	608	**861-427**	5	8.00	FAB
4 x 10	608	**861-428**	5	10.00	FAB
4 x 12	608	**861-429**	5	12.00	FAB

Reducers





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

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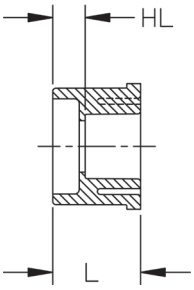
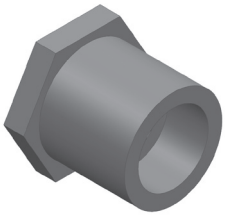
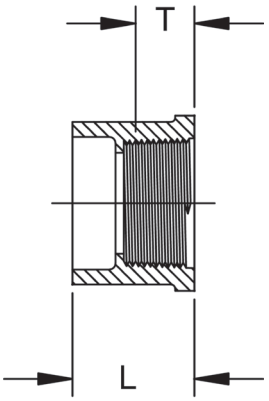


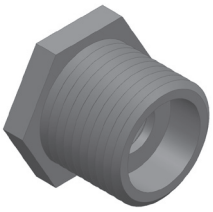
Size (inch)	P/L	Code	Pack Qty	HL (inch)	L (inch)	Design
20 - 8	05	**837-818N**	1	6.25	10.25	FAB
20 - 10	05	**837-820N**	1	5.25	10.25	FAB
20 - 12	05	**837-822N**	1	4.25	10.25	FAB
20 - 14	05	**837-824N**	1	3.25	10.25	FAB
20 - 16	05	**837-826N**	1	2.25	10.25	FAB
20 - 18	05	**837-828N**	1	1.25	10.25	FAB
24 - 4	05	**837-904N**	1	10.25	12.25	FAB
24 - 6	05	**837-906N**	1	9.25	12.25	FAB
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

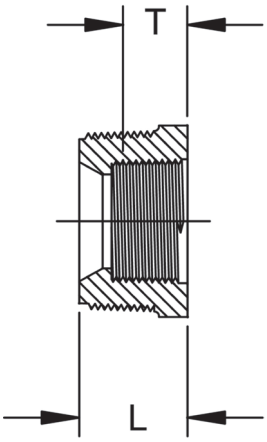




Flush Style Reducer Bushing (SPG x FPT)

Size (inch)	P/L	Code	Pack Qty	L (inch)	T (inch)	Design
⅜ x ¼	08	**838-052E**	50	1.59	0.60	Extended
½ x ¼	608	**838-072**	50	1.14	0.61	FLUSH
½ x ⅜	608	**838-073**	50	1.21	0.60	FLUSH
¾ x ¼	608	**838-098**	50	1.13	0.61	FLUSH
¾ x ½	608	**838-101**	50	1.28	0.77	FLUSH
1 x ½	608	**838-130**	50	1.42	0.76	FLUSH
1 x ¾	08	**838-131**	50	1.41	0.81	FLUSH
1 ¼ x ½	608	**838-166**	15	1.56	0.75	FLUSH
1 ¼ x ¾	08	**838-167**	15	1.56	0.79	FLUSH
1 ¼ x 1	08	**838-168**	15	1.56	0.99	FLUSH
1 ½ x ½	608	**838-209**	15	1.68	0.76	FLUSH
1 ½ x ¾	08	**838-210**	15	1.69	0.79	FLUSH
1 ½ x 1	608	**838-211**	15	1.68	0.99	FLUSH
1 ½ x 1 ¼	08	**838-212**	15	1.69	1.10	FLUSH
2 x ½	608	**838-247**	10	1.80	0.77	FLUSH
2 x ¾	08	**838-248**	10	1.80	0.80	FLUSH
2 x 1	608	**838-249**	10	1.80	0.99	FLUSH
2 x 1 ¼	08	**838-250**	10	1.81	1.02	FLUSH
2 x 1 ½	08	**838-251**	10	1.88	1.04	FLUSH
2 ½ x 1 ½	608	**838-291**	5	2.24	1.07	FLUSH
2 ½ x 2	08	**838-292**	5	2.12	1.10	FLUSH
3 x 2	608	**838-338**	5	2.42	1.07	FLUSH
3 x 2 ½	608	**838-339**	5	2.25	1.61	FLUSH
4 x 2	08	**838-420**	5	2.71	1.10	FLUSH
4 x 3	08	**838-422**	5	2.75	1.62	FLUSH

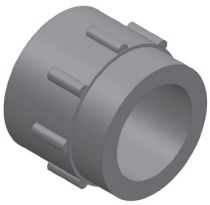


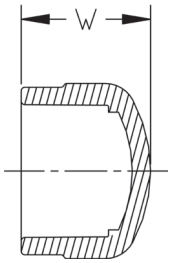


Flush Style Reducer Bushing (MPT x FPT)

Size (inch)	P/L	Code	Pack Qty	L (inch)	T (inch)	Style
⅜ x ¼	08	**839-052**	50	0.80	0.60	FLUSH
½ x ¼	08	**839-072**	50	0.95	0.60	FLUSH
½ x ⅜	08	**839-073**	50	0.96	0.61	FLUSH
¾ x ¼	08	**839-098**	50	1.01	0.61	FLUSH
¾ x ⅜	08	**839-099**	50	1.02	0.61	FLUSH
¾ x ½	08	**839-101**	50	1.08	0.75	FLUSH
1 x ¼	08	**839-128**	25	1.23	0.58	FLUSH
1 x ½	08	**839-130**	25	1.24	0.76	FLUSH
1 x ¾	08	**839-131**	25	1.28	0.80	FLUSH
1 ¼ x ½	08	**839-166**	25	1.29	0.76	FLUSH
1 ¼ x ¾	08	**839-167**	25	1.29	0.79	FLUSH
1 ¼ x 1	08	**839-168**	25	1.30	1.00	FLUSH
1 ½ x ¾	08	**839-210**	25	1.33	0.78	FLUSH
1 ½ x 1	08	**839-211**	25	1.34	0.98	FLUSH
1 ½ x 1 ¼	08	**839-212**	25	1.33	1.02	FLUSH
2 x ½	08	**839-247**	10	1.44	0.76	FLUSH
2 x ¾	08	**839-248**	10	1.44	0.80	FLUSH
2 x 1	08	**839-249**	10	1.42	0.97	FLUSH
2 x 1 ¼	08	**839-250**	10	1.43	1.01	FLUSH
2 x 1 ½	08	**839-251**	10	1.35	1.02	FLUSH
3 x 2	08	**839-338**	5	2.02	1.09	FLUSH
4 x 2	08	**839-420**	5	2.07	1.10	FLUSH
4 x 3	08	**839-422**	5	2.06	1.60	FLUSH

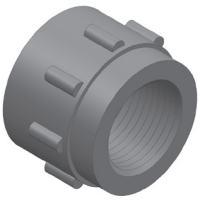
Caps and plugs

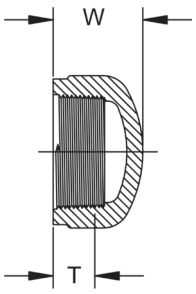




Cap (S) Schedule 80 Harvel® PVC

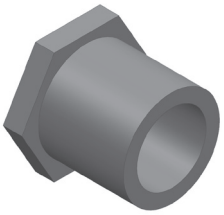
Size (inch)	P/L	Code	Pack Qty	W (inch)	Design
¼	08	**847-002**	50	0.96	HS
⅜	08	**847-003**	50	1.11	HS
½	08	**847-005**	50	1.30	HS
¾	08	**847-007**	50	1.46	HS
1	608	**847-010**	25	1.66	HS
1 ¼	08	**847-012**	15	1.89	HS
1 ½	608	**847-015**	10	2.08	HS
2	08	**847-020**	5	2.32	HS
2 ½	608	**847-025**	5	2.61	HS
3	08	**847-030**	5	3.06	HS
4	08	**847-040**	5	3.69	HS
6	08	**847-060**	2	4.86	HS
8	08	**847-080**	2	6.25	SL
10	02	**847-100**	1	7.92	SL
12	02	**847-120**	1	9.37	SL
14	05	**847-140N**	1	5.75	FAB
16	05	**847-160N**	1	7.00	FAB
18	A33	**847-180N**	1	8.25	FAB
20	A33	**847-200N**	1	8.75	FAB
24	A33	**847-240N**	1	10.25	FAB

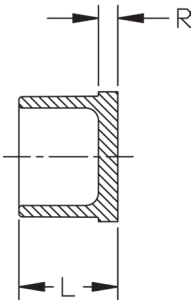




Cap (FPT) Schedule 80 Harvel® PVC

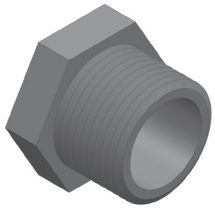
Size (inch)	P/L	Code	Pack Qty	W (inch)	T (inch)	Design
¼	608	**848-002**	50	0.93	0.54	HS
⅜	608	**848-003**	50	0.94	0.62	HS
½	608	**848-005**	50	1.14	0.74	HS
¾	608	**848-007**	25	1.25	0.80	HS
1	608	**848-010**	25	1.51	0.97	HS
1 ¼	608	**848-012**	15	1.59	1.00	HS
1 ½	608	**848-015**	10	1.70	1.01	HS
2	608	**848-020**	5	1.82	1.06	HS
2 ½	608	**848-025**	5	2.61	1.45	HS
3	608	**848-030**	5	2.80	1.83	HS
4	608	**848-040**	5	3.16	1.80	HS

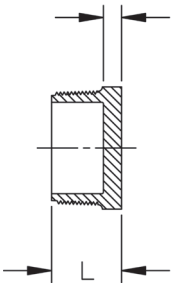




Plug (P)

Size (inch)	P/L	Code	Pack Qty	L (inch)	R (inch)
½	608	**849-005**	50	1.08	0.18
¾	608	**849-007**	50	1.25	0.22
1	608	**849-010**	25	1.41	0.25
1 ½	608	**849-015**	20	1.72	0.31
2	608	**849-020**	10	1.90	0.38
4	608	**849-040**	5	2.65	0.39

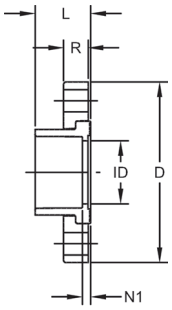




Plug (MPT)

Size (inch)	P/L	Code	Pack Qty	L (inch)	R (inch)	Design
¼	608	**850-002**	50	0.81	0.22	HS
⅜	608	**850-003**	50	0.83	0.22	HS
½	608	**850-005**	50	0.98	0.22	HS
¾	608	**850-007**	50	1.06	0.25	HS
1	608	**850-010**	25	1.24	0.27	HS
1 ¼	608	**850-012**	25	1.33	0.31	HS
1 ½	608	**850-015**	20	1.38	0.34	HS
2	608	**850-020**	10	1.47	0.39	HS
2 ½	608	**850-025**	10	1.95	0.38	HS
3	608	**850-030**	5	1.98	0.38	HS
4	608	**850-040**	5	2.16	0.39	HS
6	A33	**850-060N**	1	2.00	0.75	FAB
8	A33	**850-080N**	1	2.00	0.75	FAB
10	A33	**850-100N**	1	2.00	0.75	FAB
12	A33	**850-120N**	1	2.00	0.75	FAB

Van Stone Flanges



Flange - Van Stone (S)

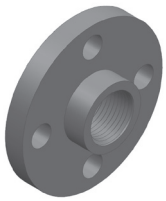
3" - 12" have Steel Ring
150 psi @ 73°F (10.3 bar @ 22.7°C)
- 14" - 24" pressure rating is 100 psi @ 73°F (6.9 bar @ 22.7°C) - Steel Ring

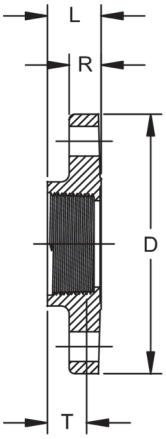
HC = Honeycomb (Front)

Size (inch)	P/L	Code
½	08	**854-005**
¾	08	**854-007**
1	608	**854-010**
1 ¼	08	**854-012**
1 ½	08	**854-015**
2	08	**854-020**
2 ½	08	**854-025**
3	08	**854-030**
4	08	**854-040**
6	08	**854-060**
8	08	**854-080**
10	02	**854-100**
12	02	**854-120**
14	05	**854-140N**
16	A33	**854-160N**
18	A33	**854-180N**
20	A33	**854-200N**
24	A33	**854-240N**

Size (inch)	Inch Size (inch)	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	N1 (inch)	R (inch)	ID (inch)	Design
½	½	5	4	½	2.38	3.50	1.03	0.11	0.57	0.63	HC
¾	¾	5	4	½	2.75	3.88	1.15	0.13	0.58	0.84	HC
1	1	5	4	½	3.13	4.25	1.38	0.11	0.66	1.06	HC
1 ¼	1 ¼	5	4	½	3.50	4.63	1.45	0.14	0.69	1.40	HC
1 ½	1 ½	5	4	½	3.88	5.00	1.59	0.15	0.76	1.61	HC
2	2	5	4	⅝	4.75	6.00	1.76	0.20	0.82	2.10	HC
2 ½	2 ½	5	4	⅝	5.50	7.00	2.05	0.22	0.98	2.50	HC
3	3	5	4	⅝	6.00	7.50	2.25	0.30	1.02	3.11	HC
4	4	5	8	⅝	7.50	9.00	2.65	0.34	1.11	4.07	HC
6	6	2	8	¾	9.50	11.00	3.50	0.48	1.27	6.13	HC
8	8	2	8	¾	11.75	13.50	4.63	0.50	1.73	8.02	HC
10	10	2	12	⅞	14.25	16.00	5.63	0.50	1.73	10.09	HC
12	12	2	12	⅞	17.00	19.00	6.69	0.56	1.73	11.98	HC
14	14	1	12	1	18.75	21.00	11.75	4.75	0.50	12.50	FAB
16	16	1	16	1	21.25	23.50	13.50	5.50	0.50	14.31	FAB
18	18	1	16	1 ⅛	22.75	25.00	15.50	6.50	0.50	16.13	FAB
20	20	1	20	1 ⅛	25.00	27.50	17.25	7.25	0.50	18.00	FAB
24	24	1	20	1 ¼	29.50	32.00	19.50	7.50	0.50	21.56	FAB

Flange - One Piece (FPT)

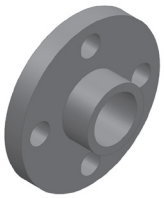


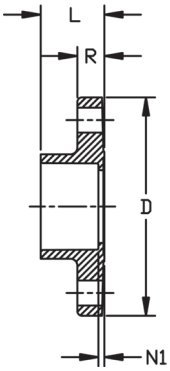


- ANSI 150 Class according to ANSI B16.5

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	3.51	0.89	0.77	0.39	SOLID
¾	08	**852-007**	5	4	½	2.75	3.89	0.91	0.79	0.45	SOLID
1	08	**852-010**	5	4	½	3.13	4.28	1.13	1.00	0.53	HC
1 ¼	608	**852-012**	5	4	½	3.50	4.62	1.20	1.06	0.58	HC
1 ½	08	**852-015**	5	4	½	3.88	4.99	1.19	1.03	0.68	HC
2	608	**852-020**	5	4	⅝	4.75	6.02	1.22	1.06	0.70	HC
2 ½	08	**852-025**	5	4	⅝	5.50	7.00	1.72	1.53	0.75	HC
3	08	**852-030**	5	4	⅝	6.00	7.50	2.15	1.63	1.15	HC
4	08	**852-040**	5	8	⅝	7.50	9.00	2.30	1.77	1.23	HC

One Piece Flange (S) Schedule 80 Harvel® PVC





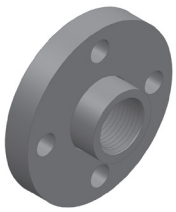
- ANSI 150 Class according to ANSI B16.5
- 14" & 16" 100 psi @ 73°F (6.9 bar @ 22.7°C
- 3" - 12" Have CPVC Ring
- 14" - 24" pressure rating is 100 psi @ 73°F (6.9 bar @ 22.7°C) - Steel Ring

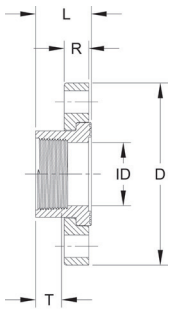
3" - 12" have Steel Ring

Size (inch)	P/L	Code
½	08	**851-005**
¾	608	**851-007**
1	08	**851-010**
1 ¼	608	**851-012**
1 ½	08	**851-015**
2	08	**851-020**
2 ½	608	**851-025**
3	08	**851-030**
4	08	**851-040**
6	08	**851-060**
8	08	**851-080**

Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	N1 (inch)	R (inch)	Design	ID (inch)	Inch Size (inch)
5	4	½	2.38	3.50	1.02	0.13	0.39	SOLID		
5	4	½	2.75	3.89	1.14	0.13	0.45	HC		
5	4	½	3.13	4.28	1.30	0.16	0.52	HC		
5	4	½	3.50	4.64	1.45	0.14	0.59	HC		
5	4	½	3.88	5.01	1.54	0.16	0.68	HC		
5	4	⅝	4.75	6.01	1.73	0.16	0.69	HC		
5	4	⅝	5.50	7.00	1.99	0.17	0.75	HC		
5	4	⅝	6.00	7.51	2.46	0.57	1.10	HC		
5	8	⅝	7.50	9.04	2.79	0.52	1.19	HC		
2	8	¾	9.50	11.13	3.88	0.36	1.38	HC		
2	8	¾	11.75	13.54	4.90	0.42	1.45	HC		

Van Stone Flange (FPT) Schedule 80 Harvel® PVC



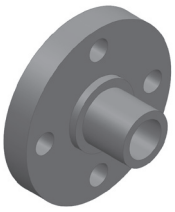


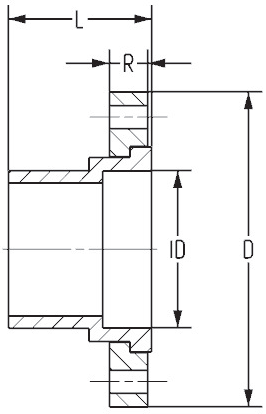
- ANSI 150 Class according to ANSI B16.5
- 150 psi @ 73°F (10.3 bar @ 22.7°C)

150 psi @ 73°F (10.3 bar @ 22.7°C)

Size (inch)	P/L	Code	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	T (inch)	R (inch)	ID (inch)	Design
½	08	**855-005**	5	4	½	2.38	3.53	1.10	0.79	0.57	0.63	HC
¾	08	**855-007**	5	4	½	2.75	3.87	1.23	0.82	0.59	0.83	HC
1	608	**855-010**	5	4	½	3.13	4.25	1.39	1.01	0.66	1.06	HC
1 ¼	608	**855-012**	5	4	½	3.50	4.62	1.50	1.02	0.69	1.38	HC
1 ½	08	**855-015**	5	4	½	3.88	5.01	1.67	1.06	0.75	1.61	HC
2	08	**855-020**	5	4	⅝	4.75	6.02	1.82	1.09	0.82	2.08	HC
2 ½	08	**855-025**	5	4	⅝	5.50	7.01	2.13	1.58	0.98	2.50	HC
3	08	**855-030**	5	4	⅝	6.00	7.50	2.36	1.71	1.02	3.08	HC
4	608	**855-040**	5	8	⅝	7.50	8.99	2.78	1.72	1.10	4.09	HC

Flange - Van Stone (SPG)



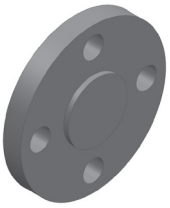


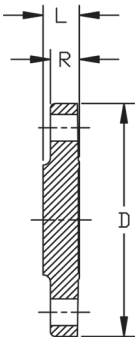
- ANSI 150 Class according to ANSI B16.5
- 1/2" - 12" rating pressione 150 psi @ 73°F (10.3 bar @ 22.7°C)
- 14" - 24" pressure rating is 100 psi @ 73°F (6.9 bar @ 22.7°C) - Steel Ring

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

Size (inch)	P/L	Code	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	R (inch)	ID (inch)	Design
½	608	**856-005**	5	4	½	2.38	3.53	1.72	0.57	0.84	HC
¾	608	**856-007**	5	4	½	2.75	3.87	1.85	0.59	1.05	HC
1	608	**856-010**	5	4	½	3.13	4.25	2.10	0.66	1.32	HC
1 ¼	608	**856-012**	5	4	½	3.50	4.62	2.28	0.69	1.66	HC
1 ½	608	**856-015**	5	4	½	3.88	5.01	2.48	0.75	1.90	HC
2	608	**856-020**	5	4	⅝	4.75	6.02	2.80	0.82	2.38	HC
2 ½	608	**856-025**	5	4	⅝	5.50	7.01	3.27	0.98	2.86	HC
3	608	**856-030**	5	4	⅝	6.00	7.50	3.60	1.02	3.49	HC
4	608	**856-040**	5	8	⅝	7.50	8.99	4.10	1.10	4.49	HC
6	608	**856-060**	2	8	¾	9.50	10.98	5.10	1.25	6.60	HC
8	608	**856-080**	1	8	¾	11.75	13.51	6.88	1.71	8.62	HC
10	602	**856-100**	1	12	⅞	14.25	15.97	8.30	1.73	10.70	HC
12	602	**856-120**	1	12	⅞	17.00	18.95	9.55	1.72	12.69	HC
14	A33	**856-140N**	1	12	1	18.75	21.00	13.00	0.50	11.41	FAB
16	A33	**856-160N**	1	16	1	21.25	23.50	14.00	0.50	13.08	FAB
18	A33	**856-180N**	1	16	1 ⅛	22.75	25.00	16.00	0.50	14.76	FAB
20	A33	**856-200N**	1	20	1 ⅛	25.00	27.50	18.00	0.50	16.43	FAB
24	A33	**856-240N**	1	20	1 ¼	29.50	32.00	20.00	0.50	19.79	FAB

Flange (Blind) Schedule 80 Harvel® PVC

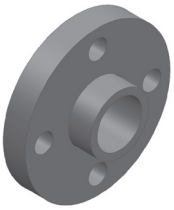


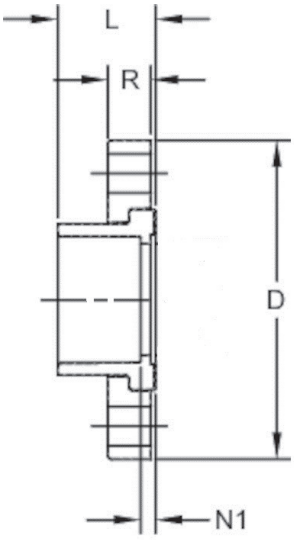


- ANSI 150 Class according to ANSI B16.5
- 1/2" - 8" 150 psi @ 73°F (10.3 bar @ 22.7°C)
- 10" - 24" 50 psi @73°F (3.5 bar @ 22.7°C)

Size (inch)	P/L	Code	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	R (inch)	Design
½	608	**853-005**	5	4	½	2.38	3.51	0.48	0.39	HC
¾	608	**853-007**	5	4	½	2.75	3.90	0.55	0.45	HC
1	608	**853-010**	5	4	½	3.13	4.29	0.66	0.53	HC
1 ¼	608	**853-012**	5	4	½	3.50	4.62	0.73	0.59	HC
1 ½	608	**853-015**	5	4	½	3.88	5.01	0.81	0.68	HC
2	608	**853-020**	5	4	⅝	4.75	6.02	0.90	0.70	HC
2 ½	608	**853-025**	5	4	⅝	5.50	7.00	0.97	0.76	HC
3	608	**853-030**	5	4	⅝	6.00	7.45	1.03	1.03	HC
4	608	**853-040**	5	8	⅝	7.50	8.96	1.14	1.14	HC
6	608	**853-060**	2	8	¾	9.50	10.95	1.51	1.27	HC
8	608	**853-080**	2	8	¾	11.75	13.51	1.62	1.45	HC
10	A33	**853-100N**	1	12	⅞	14.25	16.00	1.00	1.00	SOLID
12	A33	**853-120N**	1	12	⅞	17.00	19.00	1.00	1.00	SOLID
14	A33	**853-140N**	1	12	1	18.75	21.00	1.00	1.00	SOLID
16	A33	**853-160N**	1	16	1	21.25	23.50	1.00	1.00	SOLID
18	A33	**853-180N**	1	16	1 ⅛	22.75	25.00	1.00	1.00	SOLID
20	A33	**853-200N**	1	20	1 ⅛	25.00	27.50	1.00	1.00	SOLID
24	A33	**853-240N**	1	20	1 ¼	29.50	32.00	1.00	1.00	SOLID

Flange - Van Stone 300 (S)

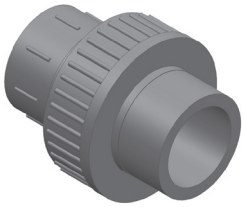


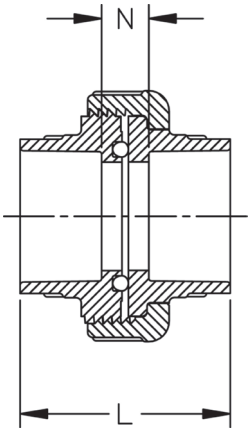


- ANSI 300 Class according to ANSI B16.5
- 150 psi @ 73°F (10.3 bar @ 22.7°C)

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	608	**854-005-300**	5	4	½	2.63	3.75	1.03	0.11	0.57	FAB
¾	608	**854-007-300**	5	4	⅝	3.25	4.63	1.15	0.13	0.59	FAB
1	608	**854-010-300**	5	4	⅝	3.50	4.88	1.38	0.11	0.66	FAB
1 ¼	608	**854-012-300**	5	4	⅝	3.88	5.25	1.45	0.14	0.69	FAB
1 ½	608	**854-015-300**	5	4	¾	4.50	6.13	1.59	0.15	0.75	FAB
2	608	**854-020-300**	5	8	⅝	5.00	6.50	1.76	0.20	0.82	FAB
2 ½	608	**854-025-300**	5	8	¾	5.88	7.50	2.05	0.22	0.98	FAB
3	608	**854-030-300**	5	8	¾	6.63	8.25	2.25	0.30	1.02	FAB
4	608	**854-040-300**	5	8	¾	7.88	10.00	2.65	0.34	1.10	FAB
6	608	**854-060-300**	2	12	¾	10.63	12.50	3.45	0.35	1.25	FAB
8	608	**854-080-300**	2	12	⅞	13.00	15.00	4.50	0.40	1.71	FAB
10	602	**854-100-300**	2	16	1	15.25	17.50	5.63	0.50	1.73	FAB
12	602	**854-120-300**	2	16	1 ⅛	17.75	20.50	6.69	0.56	1.72	FAB

Unions

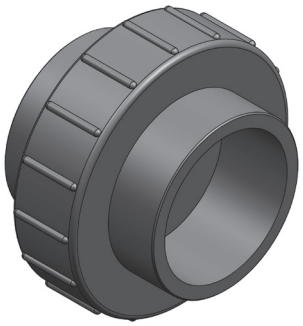


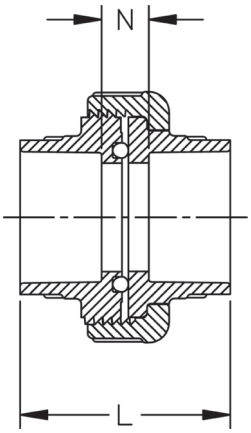


Union Type 375 (S x S)

235 psi @ 73°F (16.2 bar @ 22.7°C)

Size (inch)	P/L	EPDM Code	FKM Code	Pack Qty	L (inch)	N (inch)
½	608	**300 162 171**	**300 162 181**	5	2.56	0.78
¾	608	**300 162 172**	**300 162 182**	5	2.80	0.76
1	608	**300 162 173**	**300 162 183**	5	3.22	0.89
1 ¼	608	**300 162 174**	**300 162 184**	5	3.56	0.99
1 ½	608	**300 162 175**	**300 162 185**	5	3.76	0.92
2	608	**300 162 176**	**300 162 186**	2	4.18	1.11

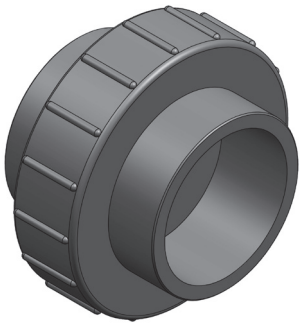


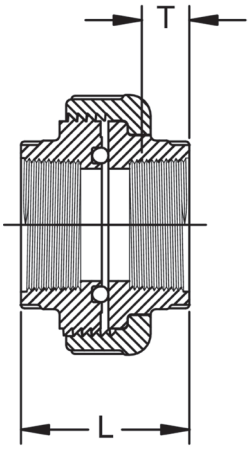


Union (SxS)

150 psi @ 73°F (10.3 bar @ 22.7°C)

Size (inch)	P/L	EPDM Code	FKM Code	Pack Qty	L (inch)	N (inch)
3	08	**897-030**	**857-030**	1	4.74	0.96
4	08	**897-040**	**857-040**	1	5.62	1.11





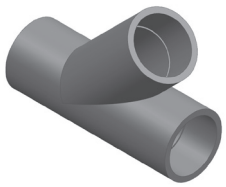
Union (FPT X FPT)

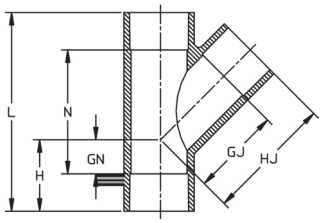
- 150 psi @ 73°F (10.3 bar @ 22.7°C)

Size (inch)	P/L	EPDM Code	FKM Code	Pack Qty	L (inch)	T (inch)
3	08	**898-030**	**858-030**	1	4.75	1.33
4	08	**898-040**	**858-040**	1	5.71	1.78

45° Wyes

45° Wye (SxSxS)

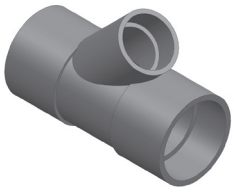


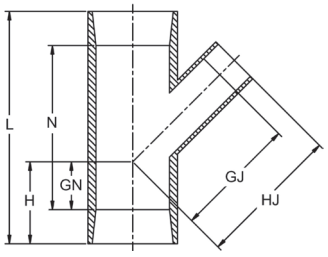


1-1/2" - 2" 235 psi @ 72°F (16.2 bar @ 22.7°C)
3" - 6" 150 psi @ 72°F (10.3 bar @ 22.7°C)
8" & Larger 100 psi @ 72°F (6.9 bar @ 22.7°C)

Size (inch)	P/L	Code	Pack Qty	GJ (inch)	GN (inch)	H (inch)	HJ (inch)	L (inch)	N (inch)	Design
1 ½	08	**870-015**	20	2.79	1.20	2.60	4.18	6.80	4.02	SL
2	08	**870-020**	10	3.56	1.36	2.87	5.07	7.99	4.97	SL
2 ½	H02	**870-025S**	1	3.97	0.84	2.59	5.72	8.31	3.97	SL
3	08	**870-030**	4	4.91	1.82	3.73	6.83	10.45	6.62	SL
4	08	**870-040**	4	6.26	2.06	4.41	8.61	12.94	8.24	SL
6	08	**870-060**	2	8.38	1.85	4.90	11.44	16.50	10.39	HS
8	08	**870-080**	1	11.20	2.06	6.08	15.22	21.34	13.31	HS
10	05	**875-100N**	1	19.75	5.50	11.25	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	16.00	36.88	47.25	31.25	FAB
18	A33	**875-180N**	1	32.50	8.50	17.50	41.50	53.00	35.00	FAB
20	A33	**875-200N**	1	35.50	9.50	19.50	45.50	58.75	38.75	FAB
24	A33	**875-240N**	1	42.00	11.00	23.00	54.00	70.00	46.00	FAB

Reducing 45° Wye (SxSxS)

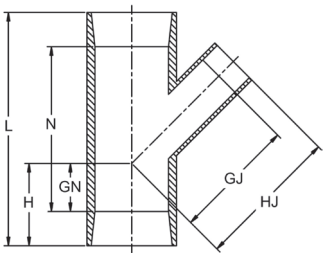




2" 235 psi @ 72°F (16.2 bar @ 22.7° C)
3" - 6" 150 psi @ 72°F (10.3 bar @ 22.7°C)
8" & Larger 100 psi @ 72°F (6.9 bar @ 22.7°C)

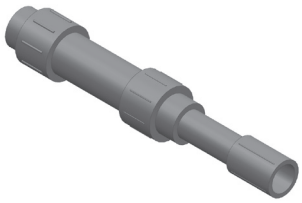
Size (inch)	P/L	Code	Pack Qty	GJ (inch)	GN (inch)	H (inch)	HJ (inch)	L (inch)	N (inch)	Design
2 x 1 ½		**870-251FB**	10	3.96	1.36	2.87	5.37	7.99	4.97	
3 x 1 ½		**870-337FB**	4	5.80	1.82	3.73	7.34	10.45	6.62	BUSH
3 x 2	608	**870-338FB**	4	5.77	1.82	3.73	7.33	10.45	6.62	BUSH
4 x 2	608	**870-420FB**	4	7.40	2.06	4.41	9.00	12.94	8.24	BUSH
4 x 3	08	**870-422FB**	4	7.03	2.06	4.41	9.00	12.94	8.24	BUSH
6 x 2	608	**870-528FB**	2	8.24	1.87	4.91	8.24	16.49	10.42	BUSH
6 x 3	608	**870-530FB**	2	7.88	1.87	4.91	9.84	16.49	10.42	BUSH
6 x 4	08	**870-532**	2	7.14	1.87	4.91	9.36	16.49	10.42	HS
8 x 3	608	**870-580FB**	1	10.23	0.41	4.43	12.20	15.98	7.95	BUSH
8 x 4		**870-582**	1	9.53	0.38	4.39	11.73	16.03	7.63	HS
8 x 6		**870-585**	1	11.13	0.88	4.89	14.14	19.52	11.50	
10 x 4	A33	**875-623N**	1	14.00	1.25	6.25	16.00	23.00	13.00	FAB
10 x 6	A33	**875-626N**	1	16.13	2.75	7.50	19.13	26.00	16.00	FAB
10 x 8	A33	**875-628N**	1	17.50	4.00	9.25	21.50	28.00	18.75	FAB
12 x 4	A33	**875-663N**	1	15.50	0.50	6.00	17.50	25.75	13.75	FAB
12 x 6	A33	**875-666N**	1	16.68	2.00	8.00	20.50	28.68	16.68	FAB
12 x 8	A33	**875-668N**	1	19.00	3.50	9.50	23.00	31.50	19.50	FAB
12 x 10	A33	**875-670N**	1	21.25	5.00	11.00	26.25	34.50	22.50	FAB
14 x 4	A33	**875-696N**	1	16.25	0.25	7.25	18.25	28.25	14.25	FAB
14 x 6	A33	**875-698N**	1	18.50	1.75	8.63	21.50	31.25	17.25	FAB
14 x 8	A33	**875-700N**	1	19.75	3.00	10.00	23.75	34.00	20.00	FAB
14 x 10	A33	**875-702N**	1	22.00	4.50	11.50	27.00	37.00	23.00	FAB
14 x 12	A33	**875-704N**	1	23.50	6.00	13.00	29.50	39.75	25.75	FAB
16 x 4	A33	**875-730N**	1	17.75	-0.75	7.50	19.75	31.00	15.00	FAB
16 x 6	A33	**875-732N**	1	19.88	1.00	9.00	22.88	34.00	18.00	FAB
16 x 8	A33	**875-734N**	1	21.25	2.50	10.25	25.25	36.75	20.75	FAB
16 x 10	A33	**875-736N**	1	23.50	4.00	12.00	28.50	39.75	23.75	FAB
16 x 12		**875-738N**	1	25.00	5.50	14.25	31.00	42.75	26.75	
16 x 14	A33	**875-740N**	1	27.25	6.25	14.25	34.25	44.50	28.50	FAB

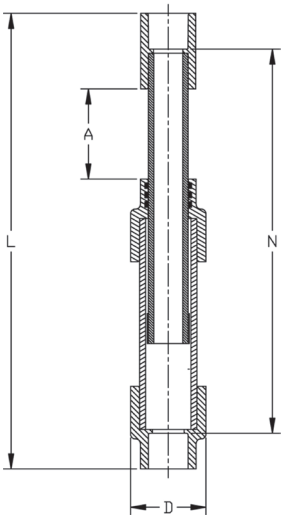
table continued on the next page



Size (inch)	P/L	Code	Pack Qty	GJ (inch)	GN (inch)	H (inch)	HJ (inch)	L (inch)	N (inch)	Design
18 x 4	A33	**875-784N**	1	19.00	-1.25	8.00	21.00	34.00	16.00	FAB
18 x 6	A33	**875-786N**	1	21.25	0.50	9.50	24.25	37.00	19.00	FAB
18 x 8	A33	**875-788N**	1	22.75	2.00	11.00	26.75	39.75	21.75	FAB
18 x 10	A33	**875-790N**	1	25.00	3.50	12.50	30.00	42.75	24.75	FAB
18 x 12	A33	**875-792N**	1	26.25	4.75	13.75	32.50	45.50	27.50	FAB
18 x 14	A33	**875-794N**	1	28.75	5.75	14.75	35.75	47.50	29.50	FAB
18 x 16	A33	**875-796N**	1	30.25	7.25	16.00	38.25	50.25	32.25	FAB
20 x 4	A33	**875-814N**	1	20.50	-1.75	8.50	22.50	36.75	16.75	FAB
20 x 6	A33	**875-816N**	1	22.75	-0.25	10.00	25.75	39.75	19.75	FAB
20 x 8	A33	**875-818N**	1	24.25	1.50	11.50	28.25	42.75	22.75	FAB
20 x 10	A33	**875-820N**	1	26.50	3.00	13.00	31.50	45.75	25.75	FAB
20 x 12	A33	**875-822N**	1	28.00	4.25	14.25	34.00	48.50	28.50	FAB
20 x 14	A33	**875-824N**	1	30.25	5.25	15.00	37.25	50.25	30.25	FAB
20 x 16	A33	**875-826N**	1	31.75	6.50	16.50	39.75	53.00	33.00	FAB
20 x 18	A33	**875-828N**	1	34.00	8.00	18.00	43.00	56.00	36.00	FAB
24 x 4	A33	**875-904N**	1	23.25	-3.00	9.25	25.25	42.50	18.50	FAB
24 x 6	A33	**875-906N**	1	25.50	-1.50	10.75	28.50	45.50	21.54	FAB
24 x 8	A33	**875-908N**	1	27.00	0.00	12.00	31.00	48.25	24.25	FAB
24 x 10	A33	**875-910N**	1	29.25	1.75	13.50	34.25	51.25	27.25	FAB
24 x 12	A33	**875-912N**	1	30.50	3.25	15.00	36.50	54.25	30.25	FAB
24 x 14	A33	**875-914N**	1	33.00	4.00	16.00	40.00	56.00	32.00	FAB
24 x 16	A33	**875-916N**	1	34.50	5.50	17.50	42.50	58.75	34.75	FAB
24 x 18	A33	**875-918N**	1	36.75	6.75	18.75	45.75	61.50	37.50	FAB
24 x 20	A33	**875-920N**	1	38.25	8.25	20.25	48.25	64.50	40.50	FAB

Expansion joints

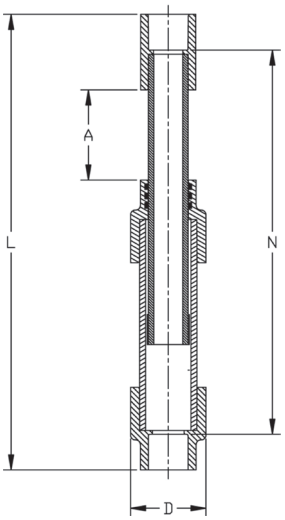




Expansion Joint 6" Travel (SxS) Schedule 80 Harvel® PVC

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	FKM Code	A (inch)	D (inch)	L (inch)	N (inch)
½	634	**826-005X6**	**836-005X6**	3.00	1.86	13.97	12.17
¾	634	**826-007X6**	**836-007X6**	3.00	2.23	14.44	12.40
1	634	**826-010X6**	**836-010X6**	3.00	2.50	14.98	12.69
1 ¼	634	**826-012X6**	**836-012X6**	3.00	2.89	15.56	12.98
1 ½	634	**826-015X6**	**836-015X6**	3.00	3.51	16.00	13.21
2	634	**826-020X6**	**836-020X6**	3.00	4.40	18.05	15.01
3	634	**826-030X6**	**836-030X6**	3.00	5.52	19.75	16.00
4	634	**826-040X6**	**836-040X6**	3.00	7.92	28.29	23.76
6	634	**826-060X6**	**836-060X6**	3.00	9.80	27.79	21.73
8	634	**826-080X6**	**836-080X6**	3.00	10.75	25.35	17.31
10	634	**826-100X6**	**836-100X6**	3.00	12.75	29.64	19.60



Expansion Joint 12" Travel (SxS) Schedule 80 Harvel® PVC

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

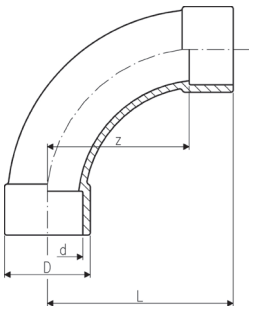
Size (inch)	P/L	EPDM Code	FKM Code	A (inch)	D (inch)	L (inch)	N (inch)
½	634	**826-005X12**	**836-005X12**	6.00	1.86	23.10	21.30
¾	634	**826-007X12**	**836-007X12**	6.00	2.23	23.57	21.52
1	634	**826-010X12**	**836-010X12**	6.00	2.50	24.11	21.81
1 ¼	634	**826-012X12**	**836-012X12**	6.00	2.89	24.69	22.11
1 ½	634	**826-015X12**	**836-015X12**	6.00	3.51	25.12	22.34
2	634	**826-020X12**	**836-020X12**	6.00	4.40	27.05	24.01
3	634	**826-030X12**	**836-030X12**	6.00	5.52	28.75	25.00
4	634	**826-040X12**	**836-040X12**	6.00	7.92	37.28	32.76
6	634	**826-060X12**	**836-060X12**	6.00	9.80	26.79	30.73
8	634	**826-080X12**	**836-080X12**	6.00	10.75	28.35	20.31
10	634	**826-100X12**	**836-100X12**	6.00	12.75	32.64	22.60

PVC-U British Standard Imperial

(All British Standard threads are BSP)

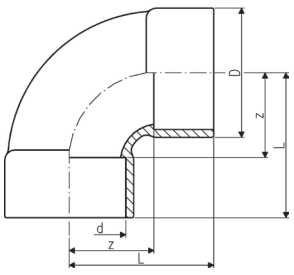
PVC-U British Standard Imperial		Page
	Fittings	40
	Adaptor fittings	46
	Unions	50
	Threaded fittings	55
	Saddles	58

Fittings



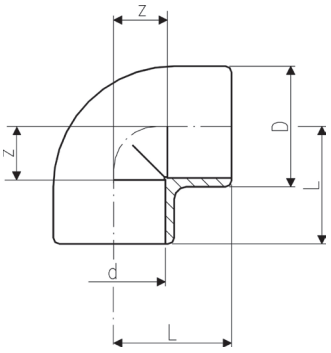
Bend 90° PVC-U Inch BS

Size (inch)	PN (bar)	d (mm)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
½	15		**721 001 106**	10	0.026	40	29	58
¾	15		**721 001 107**	10	0.047	50	35	71
1	15		**721 001 108**	10	0.069	64	43	88
1 ¼	15		**721 001 109**	5	0.206	80	54	109
1 ½	15		**721 001 110**	5	0.312	100	64	131
2	15		**721 001 111**	4	0.556	126	76	163
2 ½	16	75	**721 000 112**	5	0.798	150	90	194
3	15		**721 001 113**	5	1.763	180	113	231
4	15		**721 001 115**	2	2.667	220	137	284
5	16	140	**721 000 116**	2	5.204	280	168	356
6	15		**721 001 117**	1	7.700	320	201	411



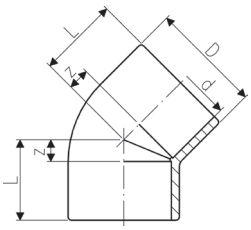
Bend 90° short pattern PVC-U Inch BS

Size (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
8	9	**721 011 120**	1	8.297	168	256	287



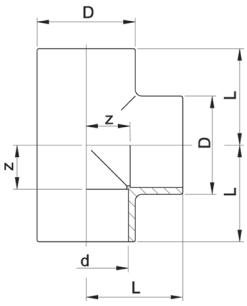
Elbow 90° PVC-U Inch BS

Size (inch)	PN (bar)	d (mm)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
⅜	15		**721 101 105**	10	0.016	10	24	25
½	15		**721 101 106**	10	0.022	13	27	30
¾	15		**721 101 107**	10	0.025	14	33	34
1	15		**721 101 108**	10	0.038	17	40	39
1 ¼	15		**721 101 109**	10	0.079	22	51	49
1 ½	15		**721 101 110**	10	0.116	26	58	56
2	15		**721 101 111**	1	0.215	32	72	68
2 ½	16	75	**721 100 112**	5	0.332	40	87	83
3	15		**721 101 113**	5	0.606	46	107	97
4	15		**721 101 115**	6	1.343	59	137	122
5	16	140	**721 100 116**	6	1.945	70	162	146
6	15		**721 101 117**	1	4.220	86	201	176



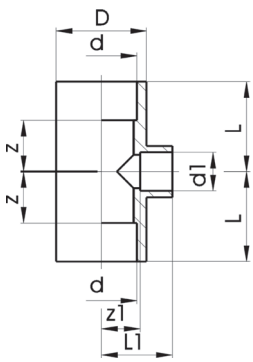
Elbow 45° PVC-U Inch BS

PN (bar)	d (inch)	d (mm)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
15	⅜		**721 151 105**	10	0.008	4	22	19
15	½		**721 151 106**	10	0.012	5	27	21
15	¾		**721 151 107**	10	0.020	6	33	25
15	1		**721 151 108**	10	0.037	8	41	30
15	1 ¼		**721 151 109**	10	0.060	10	51	37
15	1 ½		**721 151 110**	5	0.089	11	58	41
15	2		**721 151 111**	5	0.137	14	72	50
16	2 ½	75	**721 150 112**	5	0.253	17	87	61
15	3		**721 151 113**	5	0.534	20	107	70
15	4		**721 151 115**	10	0.957	25	134	89
16	5	140	**721 150 116**	1	1.570	32	162	108
15	6		**721 151 117**	2	2.900	38	198	129
9	8		**721 151 120**	1	5.214	52	250	168



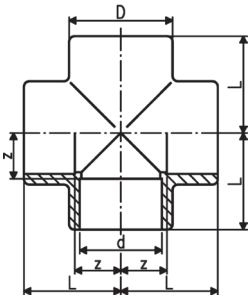
Tee 90° equal PVC-U Inch BS

PN (bar)	Size (inch)	d (mm)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
15	⅜		**721 201 105**	10	0.018	10	25	25
15	½		**721 201 106**	10	0.036	13	30	30
15	¾		**721 201 107**	10	0.051	16	35	37
15	1		**721 201 108**	10	0.079	19	43	43
15	1 ¼		**721 201 109**	10	0.105	22	50	51
15	1 ½		**721 201 110**	5	0.157	26	57	56
15	2		**721 201 111**	5	0.294	32	72	68
16	2 ½	75	**721 200 112**	5	0.476	39	87	83
15	3		**721 201 113**	5	0.847	46	107	97
15	4		**721 201 115**	8	1.864	59	138	122
16	5	140	**721 200 116**	4	3.410	71	169	147
15	6		**721 201 117**	1	5.674	86	202	176
9	8		**721 201 120**	1	10.742	114	256	233



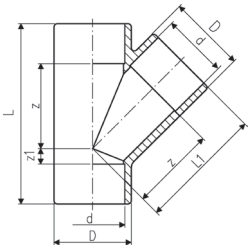
Tee 90° reducing Inch BS

d-d (inch)	d1 (mm)	Size (inch)	d (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	z1 (mm)	D (mm)	L (mm)	L1 (mm)
¾ - ½		¾		15	**721 201 134**	10	0.034	14	14	33	33	30
1 - ½		1		15	**721 201 141**	10	0.056	17	17	41	39	33
1 - ¾		1		15	**721 201 138**	10	0.058	17	17	41	39	36
1 ¼ - ¾		1 ¼		15	**721 201 151**	10	0.132	22	22	50	49	42
1 ¼ - 1		1 ¼		15	**721 201 147**	10	0.128	29	28	62	59	44
1 ½ - ½		1 ½		15	**721 201 009**	5	0.206	29	28	62	59	50
1 ½ - ¾		1 ½		15	**721 201 010**		0.185	37	34	77	73	53
1 ½ - 1		1 ½		15	**721 201 164**	5	0.211	37	34	77	73	56
2 - ¾		2		15	**721 201 011**	10	0.385	37	32	77	73	53
2 - 1		2		15	**721 201 178**	5	0.380	37	32	77	73	56
2 - 1 ½		2		15	**721 201 170**		0.511	38	32	73	68	68
4 - 3		4		15	**721 201 137**	10	1.990	72	59	138	122	122
5 - 2 ½	75		140	16	**721 200 149**	1	3.319	72	78	172	148	122



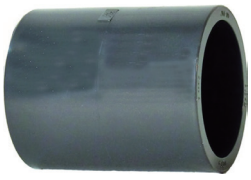
Cross PVC-U Inch BS

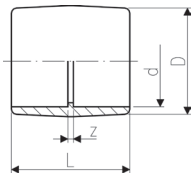
Size (inch)	PN (bar)	d (mm)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
¾	12		**721 301 107**	10	0.050	14	36	33
1	12		**721 301 108**	10	0.081	17	44	39
1 ¼	12		**721 301 109**	5	0.130	22	53	49
1 ½	12		**721 301 110**	5	0.299	30	64	60
2	12		**721 301 111**	5	0.556	37	80	74
	10	75	**721 300 112**	3	0.725	40	92	83



Tee 45° PVC-U Inch BS

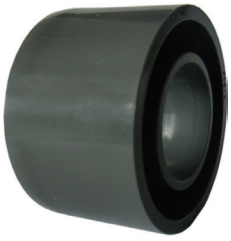
PN (bar)	d (mm)	Size (inch)	Code	SP	Weight (kg)	z (mm)	z1 (mm)	D (mm)	L (mm)	L1 (mm)
9		½	**721 251 106**	10	0.035	30	6	28	68	46
9		¾	**721 251 107**	10	0.052	35	8	33	83	55
9		1	**721 251 108**	10	0.090	43	8	41	99	67
9		1 ¼	**721 251 109**	10	0.145	55	9	50	118	82
9		1 ½	**721 251 110**	8	0.274	67	13	60	140	97
9		2	**721 251 111**	10	0.476	87	16	74	175	123
6	75	2 ½	**721 250 112**	5	0.816	101	18	91	207	145
6		3	**721 251 113**	1	1.324	122	20	107	245	173
6		4	**721 251 115**	3	2.403	147	25	134	298	210
6	140	5	**721 250 116**	1	5.628	190	34	168	376	266

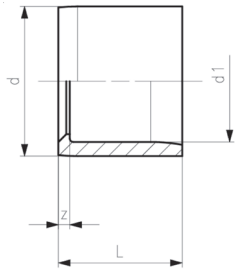




Socket equal PVC-U Inch BS

PN (bar)	d (inch)	Size (inch)	d (mm)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
15	⅜	⅜		**721 911 105**	10	0.007	3	23	32
15	½	½		**721 911 106**	10	0.011	3	27	36
15	¾	¾		**721 911 107**	10	0.018	3	33	45
15	1	1		**721 911 108**	10	0.029	3	41	51
15	1 ¼	1 ¼		**721 911 109**	10	0.048	3	51	57
15	1 ½			**721 911 110**	10	0.070	3	58	63
15	2			**721 911 111**	5	0.128	3	72	77
16	2 ½		75	**721 910 112**	20	0.188	4	87	92
15	3	3		**721 911 113**	10	0.350	7	104	107
15	4	4		**721 911 115**	15	0.606	8	134	135
16	5		140	**721 910 116**	2	1.118	7	162	159
15	6	6		**721 911 117**	2	1.800	11	197	192
9	8			**721 911 120**	1	4.140	10	253	248



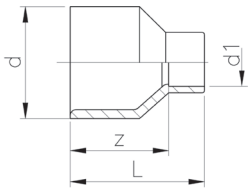


Reducing bush short pattern PVC-U Inch BS

Model:

- With solvent cement spigot and socket metric

	d (inch)	d1 (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)
*	½	⅜	15	**721 901 334**	10	0.003	2	18
*	¾	⅜	15	**721 901 338**	10	0.013	5	21
*	¾	½	15	**721 901 337**	10	0.006	3	21
	1	⅜	15	**721 901 343**	10	0.013	8	24
	1	½	15	**721 901 342**	10	0.015	6	24
	1	¾	15	**721 901 341**	10	0.010	3	24
	1 ¼	⅜	15	**721 901 349**	10	0.024	13	29
	1 ¼	½	15	**721 901 348**	10	0.023	11	29
	1 ¼	¾	15	**721 901 347**	10	0.025	8	29
	1 ¼	1	15	**721 901 346**	10	0.018	5	29
	1 ½	½	15	**721 901 355**	10	0.033	13	30
	1 ½	¾	15	**721 901 354**	10	0.034	10	30
*	1 ½	1	15	**721 901 353**	10	0.038	6	30
*	1 ½	1 ¼	15	**721 901 352**	10	0.018	2	30
	2	¾	15	**721 901 361**	10	0.060	16	37
	2	1	15	**721 901 360**	10	0.063	13	37
	2	1 ¼	15	**721 901 359**	10	0.070	8	37
	2	1 ½	15	**721 901 358**	10	0.051	6	37
	2 ½	2	15	**721 901 364**	10	0.094	8	45
	3	1	15	**721 901 374**	10	0.178	3	50
	3	1 ½	15	**721 901 372**	10	0.176	3	50
	3	2	15	**721 901 371**	10	0.178	3	50
	3	2 ½	15	**721 901 370**	140	0.124	6	51
	4	3	15	**721 901 381**	20	0.340	13	64
	5	4	15	**721 901 384**	12	0.530	13	76
	6	5	15	**721 901 388**	5	0.830	15	91
	8	6	9	**721 901 396**	2	1.769	33	119

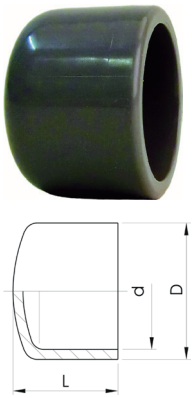


Reducing bush long pattern PVC-U Inch BS

Model:

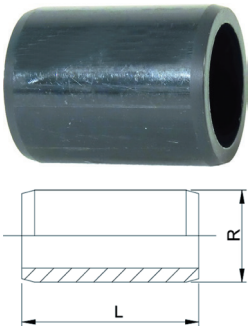
- With solvent cement spigot and socket metric

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



Cap PVC-U Inch BS

d (inch)	d (mm)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)
⅜		⅜	15	**721 961 105**	10	0.007	26	23
½		½	15	**721 961 106**	10	0.009	30	25
¾		¾	15	**721 961 107**	10	0.016	37	30
1		1	15	**721 961 108**	10	0.025	44	34
1 ¼		1 ¼	15	**721 961 109**	10	0.038	51	41
1 ½		1 ½	15	**721 961 110**	10	0.071	62	44
2		2	15	**721 961 111**	10	0.133	78	54
2 ½	75		16	**721 960 112**	5	0.152	87	65
3		3	15	**721 961 113**	10	0.323	112	77
4		4	15	**721 962 115**	5	0.762	141	101
5	140		10	**721 960 116**	10	1.036	164	114



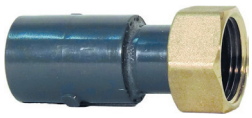
Barrel nipple PVC-U Inch BS

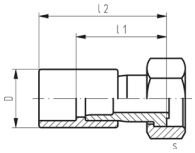
Model:

- 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	SP	Weight (kg)	L (mm)
	⅜	16	**721 901 905**	0	0.002	29
	½	16	**721 901 906**	0	0.004	33
	¾	16	**721 901 907**	0	0.008	39
	1	16	**721 901 908**	0	0.015	45
	1 ¼	16	**721 901 909**	0	0.027	54
	1 ½	16	**721 901 910**	0	0.050	60
	2	16	**721 901 911**	0	0.098	72
75	2 ½	16	**721 900 912**	30	0.156	88
	3	16	**721 901 913**	0	0.226	101
	4	16	**721 901 914**	0	0.476	126
140	5	16	**721 900 916**	4	0.932	152

Adaptor fittings



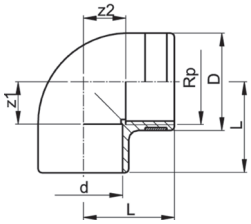


Tap connector PVC-U Inch BS Rp

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)	l1 (mm)	l2 (mm)
⅜	½	**721 551 405**	10	0.040	24	23	39	55
½	¾	**721 551 406**	10	0.042	31	27	43	60

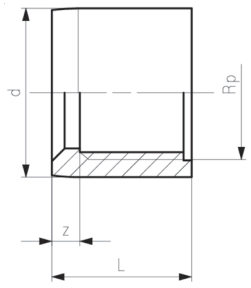


Elbow 90° PVC-U Inch BS Rp

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

Size (inch)	d (inch)	Rp (inch)	PN (bar)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	D (mm)	L (mm)
½	½	½	15	**721 101 206**	10	0.022	10	15	30	27
¾	¾	¾	15	**721 101 207**	10	0.033	13	19	35	33
1	1	1	15	**721 101 208**	10	0.052	16	24	45	39

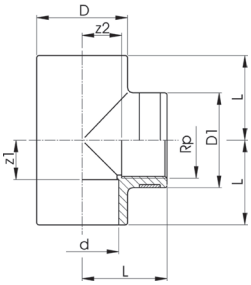


Reducing bush short PVC-U Inch BS Rp

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 thread only

d (inch)	Rp (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)
½	⅜	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

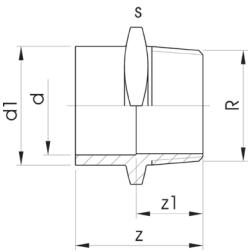


Tee 90° PVC-U Inch BS Rp

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	⅜	⅜	**721 201 205**	10	0.028	10	14	25	25	26
16	½	½	**721 201 206**	10	0.028	10	13	30	26	29
16	¾	¾	**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

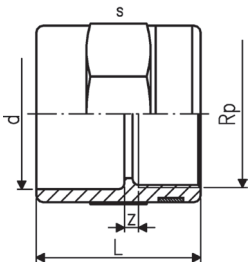


Adaptor socket nipple PVC-U Inch BS R

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	⅜	⅜	15	**721 911 555**	10	0.013	36	21	27
⅜	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

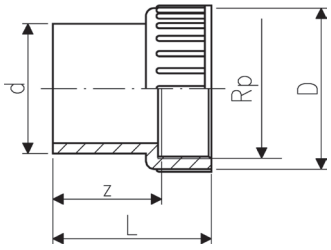


Adaptor socket PVC-U Inch BS Rp

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)
⅜	⅜	15	**721 911 005**	10	0.016	4	31	27
½	½	15	**721 911 006**	10	0.024	4	35	32
¾	¾	15	**721 911 007**	10	0.030	3	40	36
1	1	15	**721 911 008**	10	0.055	3	45	46
1 ¼	1 ¼	15	**721 911 009**	10	0.083	3	51	55
1 ½	1 ½	15	**721 911 010**	10	0.127	8	59	65
2	2	15	**721 911 011**	5	0.215	8	69	80

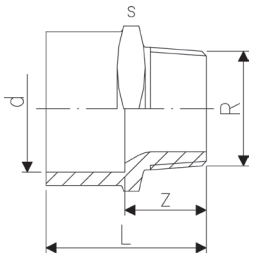


Adaptor bush equal PVC-U Inch BS Rp

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 thread only

d (inch)	Rp (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
½	½	15	**721 901 406**	10	0.012	21	28	37
¾	¾	15	**721 901 407**	10	0.016	23	34	41
1	1	15	**721 901 408**	10	0.036	27	42	48
1 ¼	1 ¼	15	**721 901 409**	10	0.065	33	52	56
1 ½	1 ½	15	**721 901 410**	10	0.092	38	62	61
2	2	15	**721 901 411**	5	0.160	47	77	74

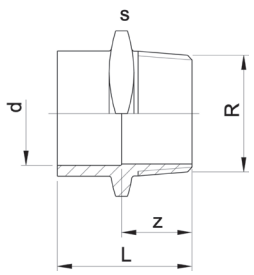


Adaptor bush equal PVC-U Inch BS R

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	SP	Weight (kg)	z (mm)	L (mm)	s (mm)
⅜	⅜	15	**721 911 705**	10	0.013	20	34	27
½	½	15	**721 911 706**	10	0.017	24	40	32
¾	¾	15	**721 911 707**	10	0.022	25	44	36
1	1	15	**721 911 708**	10	0.037	28	50	46
1 ¼	1 ¼	15	**721 911 709**	10	0.055	31	57	55
1 ½	1 ½	15	**721 911 710**	10	0.097	32	63	65
2	2	15	**721 911 711**	5	0.176	38	76	80
2 ½	2 ½	10	**721 910 712**	6	0.227	42	86	90

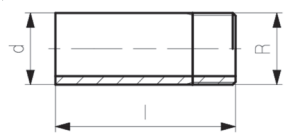


Adaptor bush reducing PVC-U Inch BS R

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)
½	¾	15	**721 911 737**	100	0.050	22	40	36
¾	1	15	**721 911 741**	70	0.034	27	48	46
1	1 ¼	15	**721 911 746**	70	0.052	29	53	55
1 ¼	1 ½	15	**721 911 752**	60	0.060	29	58	65
1 ½	2	15	**721 911 758**	5	0.071	34	64	80

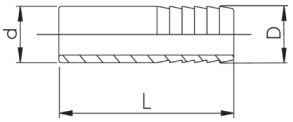


Adaptor nipple PVC-U Inch BS R

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	Weight (kg)	L (mm)
⅜	⅜	15	**721 913 905**	0.007	43
½	½	15	**721 913 906**	0.013	50
¾	¾	15	**721 913 907**	0.022	56
1	1	15	**721 913 908**	0.034	63
1 ¼	1 ¼	15	**721 913 909**	0.060	75
1 ½	1 ½	15	**721 913 910**	0.082	88
2	2	15	**721 913 911**	0.111	88
3	3	15	**721 913 913**	0.253	128
4	4	15	**721 913 915**	0.486	153



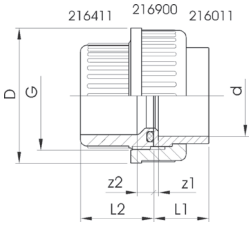
Hose connector PVC-U Inch BS

Model:

- With solvent cement spigot and parallel hose connection

d (inch)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)
¼	15	**721 961 404**	10	0.005	12	51

Unions



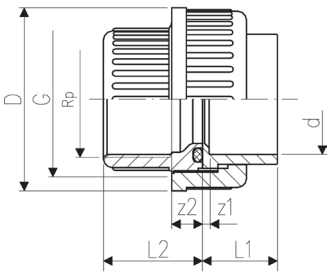
Union for solvent cement jointing PVC-U Inch BS

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; FKM: 749 410 005-014

d (mm)	Size (inch)	PN (bar)	d (inch)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
	⅜	15	⅜	**721 511 105**	10	0.025	**721 511 130**		0.025
	½	15	½	**721 511 106**	10	0.040	**721 511 131**	10	0.040
	¾	15	¾	**721 511 107**	10	0.054	**721 511 132**	10	0.064
	1	15	1	**721 511 108**	10	0.080	**721 511 133**	10	0.088
	1 ¼	15	1 ¼	**721 511 109**	10	0.108	**721 511 134**	5	0.133
	1 ½	15	1 ½	**721 511 110**	5	0.220	**721 511 135**	5	0.204
	2	15	2	**721 511 111**	5	0.400	**721 511 136**	10	0.366
75	2 ½	10	2 ½	**721 510 112**	2	0.614	**721 510 137**	2	0.621

z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)	G/Tr (inch)
3	8	35	19	24	3/4
3	9	43	21	26	1
3	9	51	24	29	1 1/4
3	9	58	27	33	1 1/2
3	10	72	32	39	2
3	10	83	33	46	2 1/4
3	10	100	40	58	2 3/4
3	18	135	47	62	Tr108x5

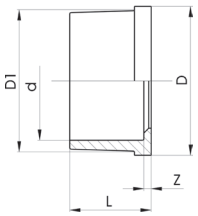


Adaptor union PVC-U Inch BS Rp

Model:

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

Thread Type	Size (inch)	PN (bar)	d (inch)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)	G (inch)
Rp	⅜	10	⅜	**721 511 205**	10	0.025	3	13	35	17	24	3/4
Rp	½	10	½	**721 511 206**	10	0.042	3	13	43	19	26	1
Rp	¾	10	¾	**721 511 207**	10	0.068	3	14	51	22	29	11/4
Rp	1	10	1	**721 511 208**	10	0.094	3	15	58	25	32	11/2
Rp	1 ¼	10	1 ¼	**721 511 209**	10	0.168	3	19	72	29	38	2
Rp	1 ½	10	1 ½	**721 511 210**	2	0.223	3	26	83	34	45	21/4
Rp	2	10	2	**721 511 211**	2	0.405	3	33	100	41	56	23/4



Union end PVC-U Inch BS

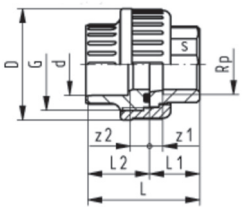
Model:

- Solvent cement socket BS inch

d (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	D1 (mm)	L (mm)
⅜	15	**721 601 105**	2000	0.003	3	24	22	19
½	15	**721 601 106**	2300	0.007	3	30	27	21
¾	15	**721 601 107**	1400	0.013	3	38	36	24
1	15	**721 601 108**	1000	0.019	3	44	41	27
1 ¼	15	**721 601 109**	500	0.033	3	56	53	32
1 ½	15	**721 601 110**	400	0.043	3	62	59	33
2	15	**721 601 111**	170	0.077	3	78	74	40
2 ½	10	**721 500 162**	20	0.140	3	101	90	47
3	9	**721 601 113**		0.196	6	110	105	56

Spare parts for valve body type 514
Union end

DN (mm)	d (mm)	Size (inch)	PVC-U Rc Code
15	20	½	**721 605 606**
20	25	¾	**721 605 607**
25	32	1	**721 605 608**
32	40	1 ¼	**721 605 609**
40	50	1 ½	**721 605 610**
50	63	2	**721 605 611**



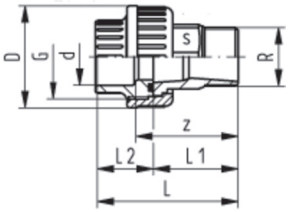
Adaptor union PVC-U/brass Inch BS Rp

Model:

- Union nut: PVC-U
- Union Bush: Solvent cement socket BS Inch
- Union End: Brass with parallel female thread Rp
- Gasket: O-ring EPDM Code No. 748 410 006-014; d3 748 410 248

Thread Type	Size (inch)	d (inch)	PN* (bar)	Code	SP	Weight (kg)
Rp	½	½	15	**721 551 506**	10	0.093
Rp	¾	¾	15	**721 551 507**	5	0.145
Rp	1	1	15	**721 551 508**	5	0.193
Rp	1 ¼	1 ¼	15	**721 551 509**	2	0.344
Rp	1 ½	1 ½	15	**721 551 510**	2	0.509
Rp	2	2	15	**721 551 511**	2	0.776
Rp	2 ½	2 ½	10	**721 550 512**	2	1.360
Rp	3	3	9	**721 551 513**	2	2.120

L1 (mm)	D (mm)	L (mm)	G (inch)	L2 (mm)	s (mm)	z1 (mm)	z2 (mm)
22	43	48	1	26	25	7	9
25	51	54	1 1/4	29	30	9	8
27	58	60	1 1/2	33	36	8	9
31	72	70	2	39	46	10	11
35	83	75	2 1/4	41	55	13	11
40	100	88	2 3/4	48	65	14	12
47	127	109	Tr 108x5	62	85	16	18
52	150	121	Tr 128x5	69	95	18	19



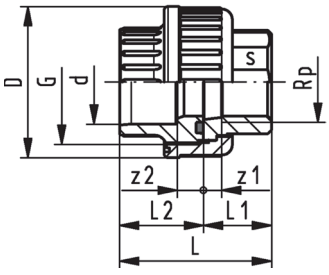
Adaptor union PVC-U/brass Inch BS R

Model:

- Union nut: PVC-U
- Union Bush: Solvent cement socket BS inch
- Union End: Brass with taper male thread R
- Gasket: O-ring EPDM Code No. 748 410 006-014; d3 748 410 248

Thread Type	Size (inch)	d (inch)	PN* (bar)	Code	SP	Weight (kg)
R	½	½	15	**721 551 906**	10	0.132
R	¾	¾	15	**721 551 907**	5	0.196
R	1	1	15	**721 551 908**	5	0.282
R	1 ¼	1 ¼	15	**721 551 909**	2	0.519
R	1 ½	1 ½	15	**721 551 910**	2	0.723
R	2	2	15	**721 551 911**	2	1.091
R	2 ½	2 ½	10	**721 550 912**	2	1.706
R	3	3	9	**721 551 913**	1	2.788

L (mm)	L2 (mm)	L1 (mm)	D (mm)	G (inch)	s (mm)	z (mm)
63	26	37	43	1	25	46
71	29	42	51	1 1/4	30	50
79	33	46	58	1 1/2	36	55
91	39	52	72	2	46	63
97	41	56	83	2 1/4	55	67
115	48	67	100	2 3/4	65	78
139	62	77	127	Tr 108x5	85	95
155	69	86	150	Tr 128x5	95	104



Adaptor union PVC-U/malleable iron galvanised Inch BS Rp

Model:

- Union nut: PVC-U
- Union Bush: Solvent cement socket BS Inch
- Union End: malleable iron with parallel female thread Rp
- Gasket: O-ring EPDM Code No. 748 410 006-014; d3 748 410 248

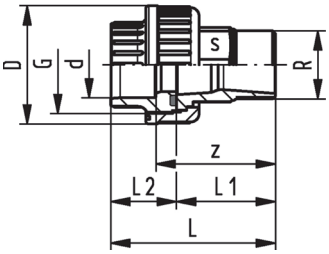
d (mm)	Thread Type	Size (inch)	PN (bar)	d (inch)	Code	SP	Weight (kg)
	Rp	½	15	½	**721 531 306**	10	0.120
	Rp	¾	15	¾	**721 531 307**	5	0.190
	Rp	1	15	1	**721 531 308**	5	0.250
	Rp	1 ¼	15	1 ¼	**721 531 309**	2	0.400
	Rp	1 ½	15	1 ½	**721 531 310**	2	0.510
	Rp	2	15	2	**721 531 311**	5	0.780
75	Rp	2 ½	10	2 ½	**721 530 312**	2	1.008
	Rp	3	9	3	**721 531 313**	2	1.740

G (inch)	L2 (mm)	s (mm)	z1 (mm)	z2 (mm)	L1 (mm)	D (mm)	L (mm)
1	26	25	9	10	22	43	48
1 1/4	29	31	7	10	22	51	51
1 1/2	33	38	9	10	26	58	58
2	39	48	12	12	31	72	69
2 1/4	46	54	14	14	33	83	78
2 3/4	58	67	11	18	35	100	91
Tr 108x5	62	85	12	18	39	127	101
Tr 128x5	69	96	15	19	45	150	114

Adaptor union PVC-U/malleable iron galvanised Inch BS R

Model:

- Union nut: PVC-U
- Union Bush: Solvent cement socket BS Inch
- Union End: Malleable iron with taper male thread R
- Gasket: O-ring EPDM Code No. 748 410 006-014; d3 748 410 248



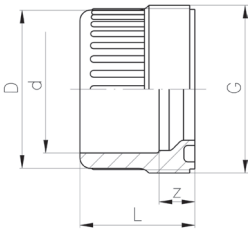
d (mm)	Thread Type	Size (inch)	PN (bar)	d (inch)	Code	SP	Weight (kg)
	R	½	15	½	**721 531 806**	10	0.156
	R	¾	15	¾	**721 531 807**	5	0.230
	R	1	15	1	**721 531 808**	5	0.330
	R	1 ¼	15	1 ¼	**721 531 809**	2	0.480
	R	1 ½	15	1 ½	**721 531 810**	2	0.683
	R	2	15	2	**721 531 811**	8	1.082
75	R	2 ½	10	2 ½	**721 530 812**	2	1.441
	R	3	9	3	**721 531 813**	1	1.891

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

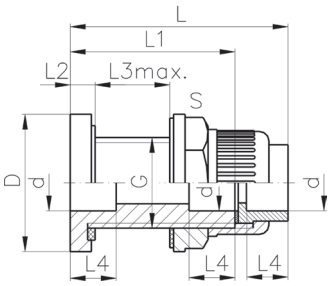
Union bush PVC-U Inch BS

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	SP	Weight (kg)	z (mm)	D (mm)	L (mm)	G (inch)
15	⅜	**721 841 105**	10	0.010	8	24	24	3/4"
15	½	**721 841 106**	10	0.012	9	29	26	1"
15	¾	**721 841 107**	10	0.021	9	34	29	1 1/4"
15	1	**721 841 108**	10	0.031	9	42	33	1 1/2"
15	1 ¼	**721 841 109**	10	0.056	10	52	39	2"
15	1 ½	**721 841 110**	10	0.075	10	62	46	2 1/4"
15	2	**721 841 111**	10	0.139	10	78	58	2 3/4"
9	3	**721 641 123**	36	0.371	19	110	69	Tr 128 x 5



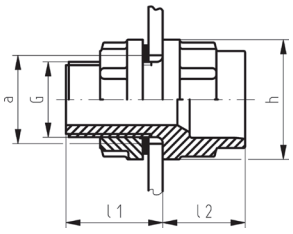
Tank adaptor for fix position stop
PVC-U Inch BS

Model:

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

Size (inch)	d (inch)	Code	SP	Weight (kg)
½	½	**161 050 226**	1	0.122
¾	¾	**161 050 227**	1	0.100
1	1	**161 050 228**	1	0.231
1 ¼	1 ¼	**161 050 229**	1	0.240
1 ½	1 ½	**161 050 230**	1	0.463
2	2	**161 050 231**	1	0.692

D (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 max (mm)	L4 (mm)	G (inch)	s (mm)	Diameter of bore in tank side (mm)
56	89	67	11	30	16	1"	46	35
65	97	72	12	32	19	11/4"	50	43
70	103	75	12	33	22	11/2"	60	49
95	111	78	12	32	26	2"	80	61
95	119	82	13	32	31	21/4"	80	67
115	131	87	13	33	38	23/4"	95	83



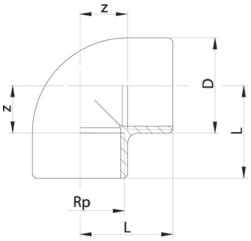
Tank adaptor for adjustable stop
PVC-U Inch BS

Model:

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

d (inch)	PN (bar)	Code	SP	Weight (kg)	h (mm)	a (mm)	l2 (mm)	l1 (mm)	G (inch)
½	15	**161 108 706**	10	0.050	37	23	24	34	½
¾	15	**161 108 707**	10	0.048	42	28	29	34	¾

Threaded fittings

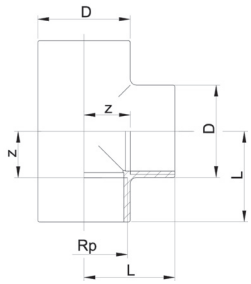


Elbow 90° PVC-U Rp

Model:

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

Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
Rp	⅜	10	**721 101 605**	10	0.013	9	23	23
Rp	½	10	**721 101 606**	10	0.017	12	27	27
Rp	¾	10	**721 101 607**	10	0.029	15	33	33
Rp	1	10	**721 101 608**	10	0.042	19	39	39
Rp	1 ¼	10	**721 101 609**	10	0.070	27	48	49
Rp	1 ½	10	**721 101 610**	5	0.178	35	61	59
Rp	2	10	**721 101 611**	5	0.322	44	75	72

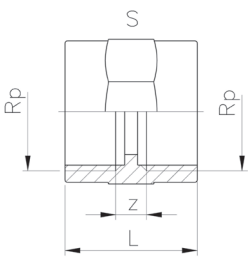


Tee 90° equal PVC-U Rp

Model:

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

Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
Rp	⅜	10	**721 201 605**	10	0.016	9	23	23
Rp	½	10	**721 201 606**	10	0.027	12	28	27
Rp	¾	10	**721 201 607**	10	0.039	15	33	33
Rp	1	10	**721 201 608**	5	0.072	19	41	39
Rp	1 ¼	10	**721 201 609**	100	0.146	27	50	49
Rp	1 ½	10	**721 201 610**	10	0.267	36	62	60
Rp	2	10	**721 201 611**	10	0.485	44	77	72



Socket PVC-U Rp

Model:

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

Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)	s (mm)
Rp	¼	10	**721 910 604**	10	0.010	7	27	22
Rp	⅜	10	**721 910 605**	10	0.015	7	29	27
Rp	½	10	**721 910 606**	10	0.024	9	35	32
Rp	¾	10	**721 910 607**	10	0.029	9	39	36

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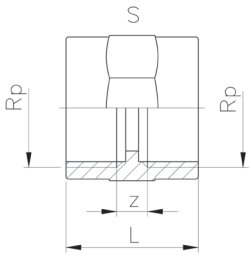
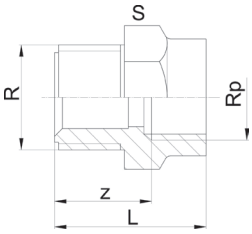


Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)	s (mm)
Rp	1	10	**721 910 608**	10	0.053	11	45	46
Rp	1 ¼	10	**721 910 609**	10	0.076	11	49	55
Rp	1 ½	10	**721 910 610**	10	0.106	11	49	65
Rp	2	10	**721 910 611**	5	0.180	11	57	80

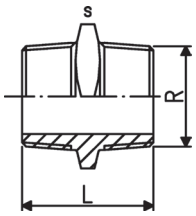


Reducing bush PVC-U R Rp

Model:

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

Thread Type	Thread Type 2	Size 2 (inch)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)	s (mm)
R	Rp	⅜	½	10	**721 910 834**	10	0.014	25	36	27
R	Rp	½	¾	10	**721 910 837**	10	0.021	25	39	32
R	Rp	½	1	10	**721 910 842**	10	0.029	31	45	32
R	Rp	¾	1	10	**721 910 841**	10	0.031	29	45	36
R	Rp	1	1 ¼	10	**721 910 846**	10	0.050	32	50	46
R	Rp	1 ¼	1 ½	10	**721 910 852**	10	0.065	35	55	55
R	Rp	1 ½	2	10	**721 910 858**	5	0.127	45	65	65

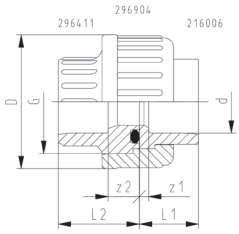


Threaded nipple R PVC-U

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

Thread Type	Size (inch)	PN (bar)	Type	Code	SP	Weight (kg)	L (mm)	s (mm)
R	⅜	10	A	**721 911 905**	10	0.007	37	19
R	½	10	A	**721 911 906**	10	0.012	45	22
R	¾	10	A	**721 911 907**	10	0.019	49	27
R	1	10	A	**721 911 908**	10	0.034	57	36
R	1 ¼	10	A	**721 911 909**	10	0.052	62	46
R	1 ½	10	A	**721 911 910**	10	0.070	67	50
R	2	10	A	**721 911 911**	10	0.126	76	65

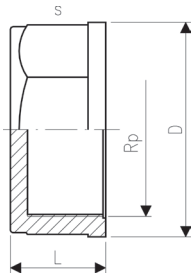


Thread union PVC-U Rp Rp

Model:

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

Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)	G (inch)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)
Rp	¼	10	**721 510 604**	10	0.019	⅝	3	12	31	22	15
Rp	⅜	10	**721 510 605**	10	0.027	¾	3	13	35	24	17
Rp	½	10	**721 510 606**	10	0.042	1	3	13	43	26	19
Rp	¾	10	**721 510 607**	10	0.065	1 ¼	3	14	51	29	22
Rp	1 ¼	10	**721 510 609**	10	0.160	2	3	19	72	38	29
Rp	1 ½	10	**721 510 610**	2	0.220	2 ¼	3	26	83	45	34
Rp	1	10	**721 510 608**	10	0.093	1 ½	3	15	58	32	25
Rp	2	10	**721 510 611**	5	0.415	2 ¾	3	33	100	56	41

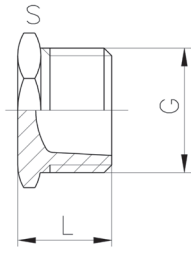


Cap PVC-U Rp

Model:

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

Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)	s (mm)
Rp	⅜	10	**721 960 605**	10	0.012	31	19	27
Rp	½	10	**721 960 606**	10	0.018	37	21	32
Rp	¾	10	**721 960 607**	10	0.024	42	24	36
Rp	1	10	**721 960 608**	10	0.040	50	26	46
Rp	1 ¼	10	**721 960 609**	10	0.060	60	29	55
Rp	1 ½	10	**721 960 610**	10	0.072	65	31	60
Rp	2	10	**721 960 611**	5	0.127	81	36	75

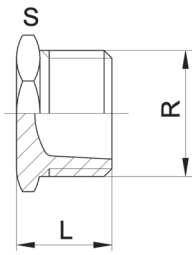


Plug PVC-U G

Model:

- With parallel male thread G
- 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

Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)	L (mm)	s (mm)
G	⅜	10	**721 960 905**	10	0.005	21	22
G	½	10	**721 960 906**	10	0.010	25	27
G	¾	10	**721 960 907**	10	0.018	29	36
G	1	10	**721 960 908**	10	0.029	32	41
G	1 ¼	10	**721 960 909**	10	0.048	36	50
G	1 ½	10	**721 960 910**	10	0.070	37	60
G	2	10	**721 960 911**	5	0.120	42	75



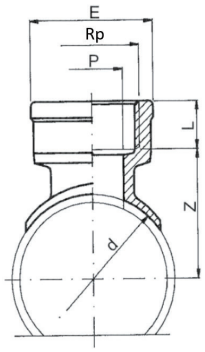
Plug PVC-U R

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

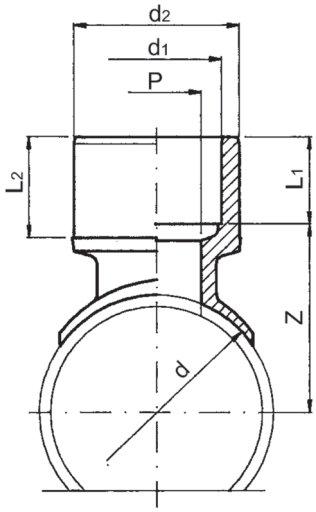
Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)	L (mm)	s (mm)
R	⅜	10	**721 961 905**	10	0.006	21	22
R	½	10	**721 961 906**	10	0.011	25	27
R	¾	10	**721 961 907**	10	0.020	29	36
R	1	10	**721 961 908**	10	0.030	32	41
R	1 ¼	10	**721 961 909**	10	0.048	36	50
R	1 ½	10	**721 961 910**	10	0.071	37	60
R	2	10	**721 961 911**	5	0.119	42	75

Saddles



Saddle with female thread Rp PVC-U

d (mm)	Rp (inch)	PN (bar)	Code	SP	GP	Weight (kg)	P (mm)	E (mm)	L (mm)	Z (mm)
32	¼	10	**DV0DEF32Z**	15	150	0.010	11	24.2	12.9	28.9
40	⅜	10	**DV0DEF40A**	15	150	0.009	11	24.2	14.0	32.0
50	¼	10	**DV0DEF50Z**	15	150	0.011	11	24.2	12.9	37.9
50	⅜	10	**DV0DEF50A**	15	150	0.010	11	24.2	14.0	37.0
50	½	10	**DV0DEF50B**	15	150	0.015	14	30.0	15.0	42.0
50	¾	10	**DV0DEF50C**	10	100	0.023	19	36.0	16.3	43.0
63	⅜	10	**DV0DEF63A**	15	150	0.009	11	24.2	14.0	43.5
63	½	10	**DV0DEF63B**	10	150	0.015	14	30.0	15.0	48.0
63	¾	10	**DV0DEF63C**	10	100	0.020	19	36.0	16.3	49.0
75	⅜	10	**DV0DEF75A**	15	150	0.009	11	24.2	14.0	49.5
75	¾	10	**DV0DEF75C**	10	100	0.022	19	36.0	16.3	55.0
75	1	10	**DV0DEF75D**	10	50	0.039	24	45.0	19.1	56.0
90	½	10	**DV0DEF90B**	15	150	0.015	14	30.0	15.0	62.0
90	1	10	**DV0DEF90D**	10	50	0.036	24	45.0	19.1	64.0
90	1 ½	10	**DV0DEF90F**	10	24	0.090	38	64.0	21.4	66.0
110	½	10	**DV0DEF91B**	15	150	0.015	14	30.0	15.0	72.0

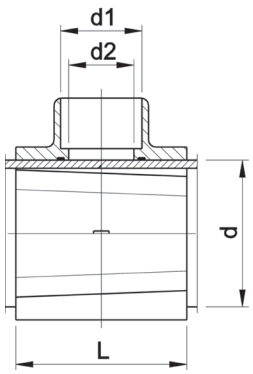


Saddle socket M/F PVC-U metric

d (mm)	d1 (mm)	d2 (mm)	PN (bar)	Code	SP	GP	Weight (kg)	Z (mm)	L2 (mm)	P (mm)	L1 (mm)
50	20	25	10	**DV0DEI50B**	15	150	0.012	43	19	14	16
50	32	40	10	**DV0DEI50D**	10	50	0.035	45	26	24	22
63	20	25	10	**DV0DEI63B**	15	150	0.040	49	19	14	16
63	25	32	10	**DV0DEI63C**	10	100	0.050	50	22	19	19
63	32	40	10	**DV0DEI63D**	10	50	0.040	51	26	24	22
75	50	63	10	**DV0DEI75F**	1		0.101	63	38	38	31
90	50	63	10	**DV0DEI90F**	1		0.108	71	38	38	31
90	63	75	10	**DV0DEI90G**	1		0.140	70	44	48	38
110	40	50	10	**DV0DEI91E**	1		0.058	78	31	30	26
110	50	63	10	**DV0DEI91F**	1		0.105	81	38	38	31
110	63	75	10	**DV0DEI91G**	1		0.136	80	44	48	38
125	50	63	10	**DV0DEI92F**	1		0.105	88	38	38	31
140	40	50	10	**DV0DEI93E**	1		0.059	93	31	30	26
140	63	75	10	**DV0DEI93G**	1		0.136	95	44	48	38
160	63	75	10	**DV0DEI94G**	1		0.133	105	44	48	38
200	63	75	10	**DV0DEI96G**	1		0.133	125	44	48	38
225	63	75	10	**DV0DEI97G**	1		0.137	138	44	48	38

Saddle single branch (rubber gasket joint to main)

- 1 bar Gas / 10 bar Water
- BS Inch
- NBR sealing
- Not according to German KTW-BWGL



d (inch)	d1 (inch)	d2 (mm)	PN (bar)	SDR	Size (inch)	Thread Type	Code	Weight (kg)	L (mm)
3	2		10		3	G	**161 117 057**	0.767	106
4	2		10		4	G	**161 117 067**	0.930	106
6	2		10		6	G	**161 117 097**	1.364	120

PVC-U Metric

PVC-U Metric		Page
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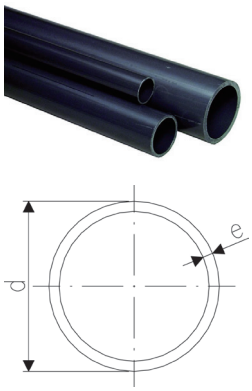
Pipes

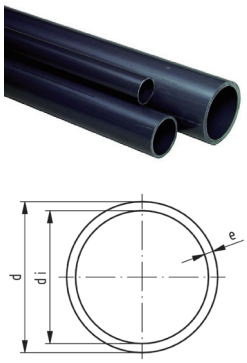


Pipe PVC-U grey
SDR34.3 nominal pressure PN6

Model:

- Material: PVC-U
- Dimension: acc. to DIN 8061/62
- Colour: darkgrey RAL 7011
- Pipe length: 5000mm, with plain ends
- **Note 2**: according to DIN 8062
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our tecnical documentaion). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

Note	d (mm)	SDR	PN (bar)	Code	Weight (kg/m)	e (mm)
2	50	34.4	6	**161 017 060**	0.366	1.5
2	63	34.4	6	**161 017 061**	0.571	1.9
2	75	34.4	6	**161 017 062**	0.793	2.2
2	90	34.4	6	**161 017 063**	1.150	2.7
2	110	34.4	6	**161 017 064**	1.660	3.2
2	125	34.4	6	**161 017 065**	2.160	3.7
2	140	34.4	6	**161 017 066**	2.690	4.1
2	160	34.4	6	**161 017 067**	3.490	4.7
2	180	34.4	6	**161 017 068**	4.430	5.3
2	200	34.4	6	**161 017 069**	5.440	5.9
2	225	34.4	6	**161 017 070**	6.850	6.6
2	250	34.4	6	**161 017 071**	8.430	7.3
2	315	34.4	6	**161 017 072**	13.300	9.2
2	355	34.4	6	**161 017 073**	17.000	10.4
2	400	34.4	6	**161 017 074**	21.400	11.7



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

Model:

- Material: PVC-U
- Dimension: acc. to DIN 8061/62
- Colour: darkgrey RAL 7011
- Pipe length: 5000mm, with plain ends
- * SDR 11
- **Note 1**: DIBT Z-40.23-1 approval
- **Note 3**: DVGW approval + DIN plus
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our tecnical documentaion). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

	Note	d (mm)	SDR	PN (bar)	Code	Weight (kg/m)	e (mm)
*		12	11	16	**161 017 104**	0.062	1.1
	1, 3	16	13.6	16	**161 017 105**	0.091	1.2
	1, 3	20	13.6	16	**161 017 106**	0.139	1.5
	1, 3	25	13.6	16	**161 017 107**	0.215	1.9
	1, 3	32	13.6	16	**161 017 108**	0.347	2.4
	1, 3	40	13.6	16	**161 017 109**	0.533	3.0
	1, 3	50	13.6	16	**161 017 110**	0.821	3.7
	1, 3	63	13.6	16	**161 017 111**	1.310	4.7
	1, 3	75	13.6	16	**161 017 112**	1.850	5.6
	1, 3	90	13.6	16	**161 017 113**	2.640	6.7

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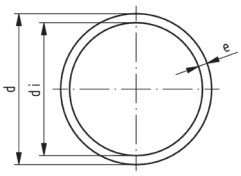
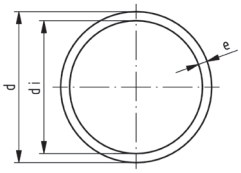


	Note	d (mm)	SDR	PN (bar)	Code	Weight (kg/m)	e (mm)
	1, 3	110	13.6	16	**161 017 114**	3.910	8.1
	1, 3	125	13.6	16	**161 017 115**	5.040	9.2
	1, 3	140	13.6	16	**161 017 116**	6.030	10.3
	1, 3	160	13.6	16	**161 017 117**	8.230	11.8

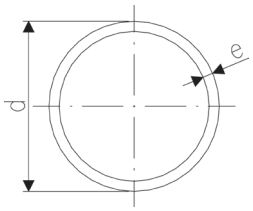


Pipe PVC-U grey
Series S10 SDR21 nominal pressure PN10

Model:

- Material: PVC-U
- Dimension: acc. to DIN 8061/62
- Colour: darkgrey RAL 7011
- Pipe length: 5000mm, with plain ends
- * SDR 17
- **Note 1**: DIBT Z-40.23-1 approval
- **Note 3**: DVGW approval + DIN plus
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our tecnical documentaion). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

	Note	d (mm)	SDR	PN (bar)	Code	Weight (kg/m)	e (mm)
*	1, 3	25	17	10	**161 017 082**	0.177	1.5
*	1, 3	32	17	10	**161 017 083**	0.280	1.9
	1, 3	40	21	10	**161 017 084**	0.355	1.9
	1, 3	50	21	10	**161 017 085**	0.560	2.4
	1, 3	63	21	10	**161 017 086**	0.866	3.0
	1, 3	75	21	10	**161 017 087**	1.240	3.6
	1, 3	90	21	10	**161 017 088**	1.770	4.3
	1, 3	110	21	10	**161 017 089**	2.650	5.3
	1, 3	125	21	10	**161 017 090**	3.390	6.0
	1, 3	140	21	10	**161 017 091**	4.240	6.7
	1, 3	160	21	10	**161 017 092**	5.550	7.7
	1, 3	180	21	10	**161 017 093**	6.970	8.6
	1, 3	200	21	10	**161 017 094**	8.640	9.6
	1, 3	225	21	10	**161 017 095**	10.900	10.8
		250	21	10	**161 017 096**	13.300	11.9
		280	21	10	**161 017 097**	16.800	13.4
		315	21	10	**161 017 098**	21.200	15.0

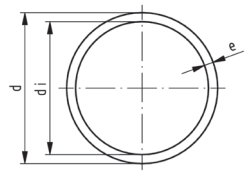


Pipe PVC-U grey
SDR51 nominal pressure PN4

Model:

- Material: PVC-U
- Dimension: acc. to DIN 8061/62
- Colour: darkgrey RAL 7011
- Pipe length: 5000mm, with plain ends
- * SDR 41
- **Note 2**: according to DIN 8062
- **Note 3**: DVGW approval + DIN plus
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our tecnical documentaion). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

	Note	d (mm)	SDR	PN (bar)	Code	Weight (kg/m)	e (mm)
*	2	75	41	4	**161 017 037**	0.683	1.9
	2	90	51	4	**161 017 038**	0.785	1.8
	2	110	51	4	**161 017 039**	1.180	2.2
	2	125	51	4	**161 017 040**	1.500	2.5
	2	140	51	4	**161 017 041**	1.860	2.8
	2	160	51	4	**161 017 042**	2.440	3.2
	2	180	51	4	**161 017 043**	3.060	3.6
	2	200	51	4	**161 017 044**	3.670	3.9
	2	225	51	4	**161 017 045**	4.670	4.4
	2	250	51	4	**161 017 046**	5.730	4.9
	2	280	51	4	**161 017 047**	7.210	5.5
	2	315	51	4	**161 017 048**	9.150	6.2

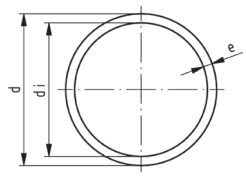


Pipe PVC-U transparent
Series S6.25 SDR13.5 nominal pressure PN16

Model:

- Material: PVC-U
- Dimension: acc. to DIN 8062
- Colour: transparent - Transparency depends on outer diameter and wall thickness! Chemical and thermical stress can cause discolouration
- Pipe length: 5000mm, with plain ends
- Food grade, with declaration of conformity acc. EU 10/2011 and EU 1953/2004
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our tecnical documentaion). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.
- * SDR 11

	pcs in foil	Note	d (mm)	SDR	PN (bar)	Code	Weight (kg/m)	di (mm)	e (mm)
* 20	20	*	12	11	16	**192 017 104**	0.062	10.0	1.1
* 20	20		16	13.5	16	**192 017 105**	0.091	13.6	1.2
* 20	20		20	13.5	16	**192 017 106**	0.139	17.0	1.5
* 20	20		25	13.5	16	**192 017 107**	0.215	21.2	1.9
* 10	10		32	13.5	16	**192 017 108**	0.347	27.2	2.4
* 5	5		40	13.5	16	**192 017 109**	0.533	34.0	3.0
* 5	5		50	13.5	16	**192 017 110**	0.821	42.6	3.7
* 3	3		63	13.5	16	**192 017 111**	1.310	53.6	4.7

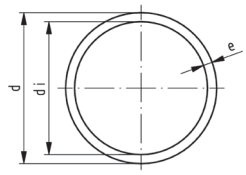


Pipe PVC-U transparent
Series S10 SDR21 nominal pressure PN10

Model:

- Material: PVC-U
- Dimension: acc. to DIN 8062
- Colour: transparent - Transparency depends on outer diameter and wall thickness! Chemical and thermical stress can cause discolouration
- Pipe length: 5000mm, with plain ends
- Approval: food grade, with declaration of conformity acc. EU 10/2011 and EU 1953/2004, Approval on request
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our tecnical documentaion). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.
- * SDR17
- * pcs in foil

	Note	d (mm)	SDR	Code	Weight (kg/m)	e (mm)	di (mm)
* 20	*	25	17	**192 017 082**	0.177	1.5	22.0
* 10	*	32	17	**192 017 083**	0.280	1.9	28.4
* 10		40	21	**192 017 084**	0.355	1.9	36.2
* 5		50	21	**192 017 085**	0.560	2.4	45.2
* 3		63	21	**192 017 086**	0.866	3.0	57.0
* 3		75	21	**192 017 087**	1.240	3.6	67.8
* 2		90	21	**192 017 088**	1.770	4.3	81.4
* 1		110	21	**192 017 089**	2.650	5.3	99.4

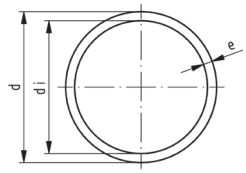


Pipe PVC-U transparent
Series S16.7 SDR34.3 nominal pressure PN6

Model:

- Material: PVC-U
- Dimension: acc. to DIN 8062
- Colour: transparent - Transparency depends on outer diameter and wall thickness! Chemical and thermical stress can cause discolouration
- Pipe length: 5000mm, with plain ends
- Approval: food grade, with declaration of conformity acc. EU 10/2011 and EU 1953/2004, Approval on request
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our tecnical documentaion). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.
- * pcs in foil

	d (mm)	SDR	Code	Weight (kg/m)	e (mm)
* 5	50	34.4	**192 017 060**	0.366	1.5
* 1	160	34.4	**192 017 080**	3.490	4.7



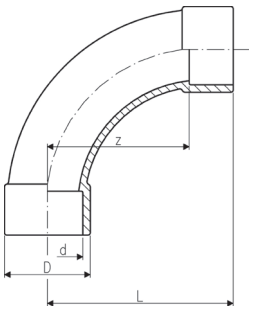
Pipe PVC-U transparent
Series S25 SDR51 nominal pressure PN4

Model:

- Material: PVC-U
- Dimension: acc. to DIN 8062
- Colour: transparent - Transparency depends on outer diameter and wall thickness! Chemical and thermical stress can cause discolouration
- Pipe length: 5000mm, with plain ends
- **Note 1**: Dimensional variatios of wall thickness not acc. to DIN 8062
- Approval: food grade, with declaration of conformity acc. EU 10/2011 and EU 1953/2004, Approval on request
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our tecnical documentaion). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.
- * pcs in foil

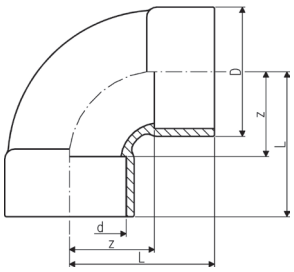
	Note	d (mm)	SDR	Code	Weight (kg/m)	e (mm)	di (mm)
* 5	SDR 34,4	63	34.4	**192 017 036**	0.571	1.9	59.4
* 3	SDR 41	75	41	**192 017 037**	0.683	1.9	71.4
* 2		90	51	**192 017 038**	0.785	1.8	86.4
* 1	1	110	51	**192 017 039**	1.180	2.2	105.6
* 1		125	51	**192 017 040**	1.500	2.5	120.0
* 1		140	51	**192 017 041**	1.860	2.8	134.4
* 1		160	51	**192 017 042**	2.440	3.2	153.6
* 1		200	51	**192 017 044**	3.670	3.9	192.0
* 1	1	225	51	**192 017 045**	4.670	4.4	216.0
* 1		250	51	**192 017 046**	5.730	4.9	240.2
* 1	1	280	51	**192 017 047**	7.210	5.5	269.0

Fittings



Bend 90° PVC-U metric

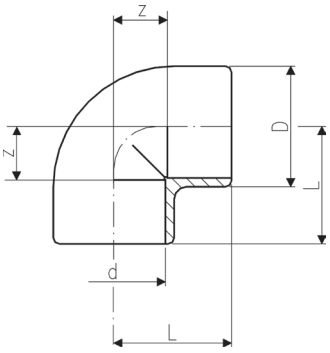
d (mm)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
20		16	**721 000 106**	10	0.029	40	27	56
25		16	**721 000 107**	10	0.049	50	33	69
32		16	**721 000 108**	10	0.074	64	38	86
40		16	**721 000 109**	30	0.121	80	47	106
50		16	**721 000 110**	5	0.298	100	61	131
63		16	**721 000 111**	6	0.516	126	76	164
75	2 ½	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	5	16	**721 000 116**	2	5.204	280	168	356
160		16	**721 000 117**	1	8.298	320	192	406



Bend 90° short pattern PVC-U metric

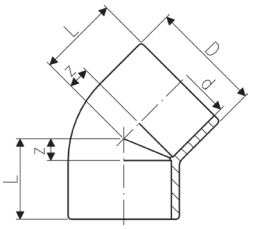
d (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
225	10	**721 010 120**	1	7.554	168	256	287
280	10	**721 010 122**	1	16.987	210	318	357
315	6	**721 010 123**	1	21.567	237	356	402
400	6	**721 010 125**	1	30.000	300	442	521

Elbow 90° PVC-U metric

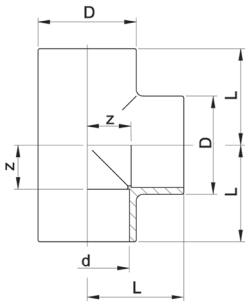


d (mm)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
6		16	**721 100 101**	10	0.004	4	11	16
8		16	**721 100 102**	10	0.004	5	13	17
10		16	**721 100 103**	10	0.004	6	14	18
12		16	**721 100 104**	10	0.006	7	17	19
16		16	**721 100 105**	10	0.007	9	21	23
20		16	**721 100 106**	10	0.012	11	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	0.107	26	59	57
63		16	**721 100 111**	10	0.202	33	73	71
75	2 ½	16	**721 100 112**	5	0.332	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**	6	1.945	70	162	146
160		16	**721 100 117**	1	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

Elbow 45° PVC-U metric

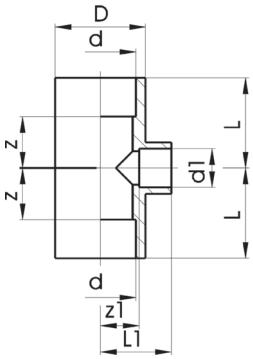


d (mm)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
16		16	**721 150 105**	10	0.008	5	21	19
20		16	**721 150 106**	10	0.011	5	25	21
25		16	**721 150 107**	10	0.017	6	31	25
32		16	**721 150 108**	10	0.021	8	38	30
40		16	**721 150 109**	10	0.048	10	47	36
50		16	**721 150 110**	5	0.086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

d (mm)	d (inch)	PN (bar)	Size (inch)	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	2 ½	**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	5	**721 200 116**	4	3.410	71	169	147
160		16		**721 200 117**	4	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)	Size (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	34	34	77	72	53
63	32	16		**721 200 178**	5	0.336	34	34	77	72	56
63	40	16		**721 200 174**	5	0.347	34	34	77	72	60
63	50	16		**721 200 170**	5	0.354	34	34	77	72	65
75	32	16	2 ½	**721 200 181**	9	0.535	40	41	92	84	63
75	40	16	2 ½	**721 200 182**	9	0.555	40	41	92	84	67
75	50	16	2 ½	**721 200 183**	8	0.541	40	41	92	84	72
75	63	16	2 ½	**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	5	**721 200 148**	1	3.235	72	82	172	148	113

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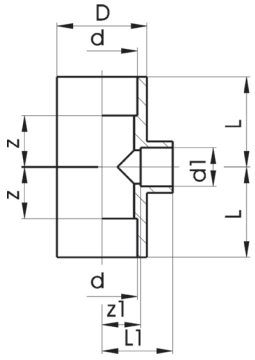
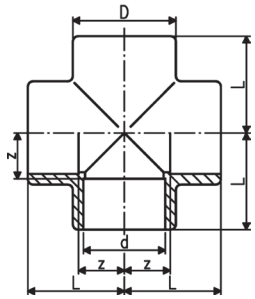
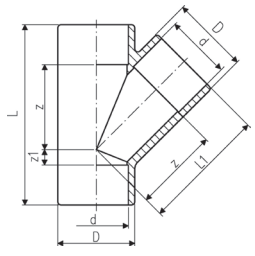


d (mm)	d1 (mm)	PN (bar)	Size (inch)	Code	SP	Weight (kg)	z (mm)	z1 (mm)	D (mm)	L (mm)	L1 (mm)
140	75	16	5	**721 200 149**	1	3.319	72	78	172	148	122
140	110	16	5	**721 200 150**	1	3.422	72	74	172	148	135
160	110	16		**721 200 152**	1	4.305	81	81	192	167	142
200	110	10		**721 200 153**	1	8.782	107	131	232	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
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



Cross PVC-U metric

d (mm)	d (inch)	PN (bar)	Size (inch)	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	2 ½	**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



Tee 45° PVC-U metric

d (mm)	d (inch)	PN (bar)	Size (inch)	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**	8	0.265	66	12	60	140	97
63		10		**721 250 111**	5	0.439	85	14	74	175	123
75	2 ½	6	2 ½	**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	5	**721 250 116**	1	5.628	190	34	168	376	266

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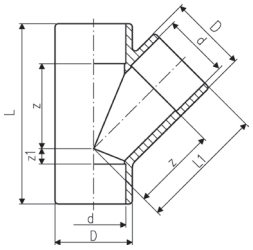
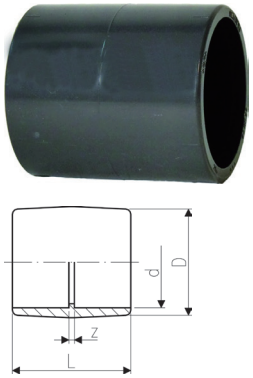


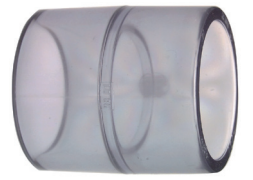
d (mm)	d (inch)	PN (bar)	Size (inch)	Code	SP	Weight (kg)	z (mm)	z1 (mm)	D (mm)	L (mm)	L1 (mm)
160		6		**721 250 117**	1	7.187	213	41	190	428	300
200		6		**721 250 119**	1	12.314	265	48	232	527	372
225		6		**721 250 120**	1	15.735	296	54	260	590	416
250		6		**721 250 121**	1	20.350	330	60	286	654	462

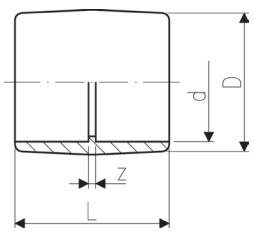


Socket equal PVC-U metric

[1] Socket d355 and d400 fabricated from pipe

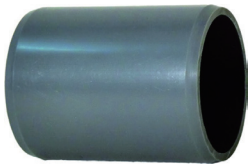
	d (mm)	d (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
	6		16	**721 910 101**	10	0.004	3	12	27
	8		16	**721 910 102**	10	0.005	3	14	27
	10		16	**721 910 103**	1	0.004	3	16	27
	12		16	**721 910 104**	1	0.004	3	19	27
	16		16	**721 910 105**	10	0.006	3	22	31
	20		16	**721 910 106**	10	0.011	3	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	0.187	3	73	79
	75	2 ½	16	**721 910 112**	20	0.188	4	87	92
	90		16	**721 910 113**	10	0.328	5	105	107
	110		16	**721 910 114**	6	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**		10.706	68	377	454
1	400		6	**721 910 125**		11.326	73	425	505

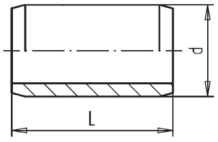




Socket equal PVC-U transparent metric

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



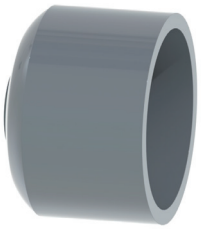


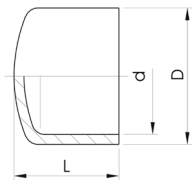
Barrel nipple PVC-U metric

Model:

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

d (mm)	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 ½	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

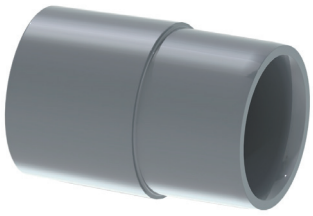


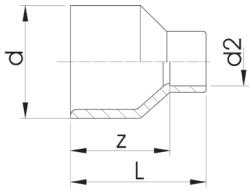


Cap PVC-U metric

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	37
50		16	**721 960 110**	10	0.051	58	45
63		16	**721 960 111**	5	0.095	73	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	114
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

Reducing bush long PVC-U metric



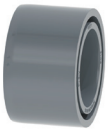


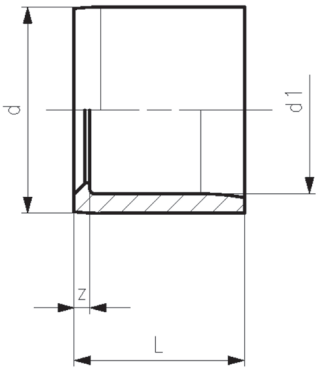
Model:

- With solvent cement spigot and socket metric

d (mm)	d2 (mm)	PN (bar)	Size (inch)	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	2 ½	**721 910 364**	5	0.211	62	100
90	75	16		**721 910 370**	8	0.335	74	118
140	110	16	5	**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)	Size (inch)	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**	50	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	2 ½	**721 900 365**	10	0.109	13	44
75	63	16	2 ½	**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**	12	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	5	**721 900 386**	5	0.562	25	76
140	110	16	5	**721 900 385**	5	0.605	15	76
140	125	16	5	**721 900 384**	5	0.331	7	76
160	90	16		**721 900 391**	6	0.751	35	86
160	110	16		**721 900 390**	6	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

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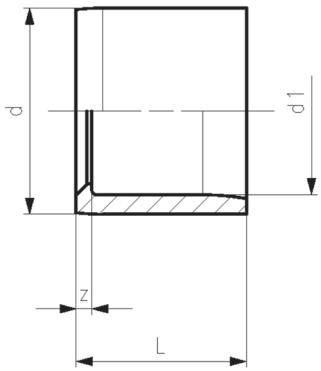
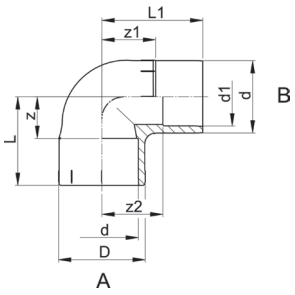


d (mm)	d1 (mm)	PN (bar)	Size (inch)	Code	SP	Weight (kg)	z (mm)	L (mm)
200	160	10		**721 900 392**	2	1.085	20	108
225	110	10		**721 900 397**	4	2.544	57	120
225	125	10		**721 900 399**	4	2.563	49	120
225	140	10		**721 900 398**	4	2.609	41	120
225	160	10		**721 900 396**	2	2.199	31	119
225	200	10		**721 900 181**	9	1.360	13	119
250	125	10		**721 900 326**	4	3.150	11	131
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

PRO-FIT Fittings

PRO-FIT elbow 90° PVC-U metric

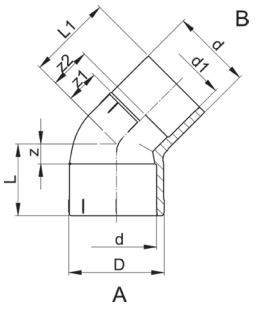


Model:

- Outlet: A = Solvent cemented socket metric
- Outlet: B = Solvent cemented spigot in combination with reducing socket metric
- Direct connection from fitting to fitting allowing shortest possible overall length

d (mm)	d1 (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	z1 (mm)	z2 (mm)	D (mm)	L (mm)	L1 (mm)
20	16	16	**721 100 306**	10	0.011	11	16	18	25	27	32
25	20	16	**721 100 307**	10	0.020	14	18	21	31	33	37
32	25	16	**721 100 308**	10	0.038	17	22	25	38	39	44
40	32	16	**721 100 309**	10	0.069	23	30	34	47	49	56
50	40	16	**721 100 310**	10	0.122	26	36	41	58	57	67
63	50	16	**721 100 311**	10	0.237	33	45	52	73	71	83

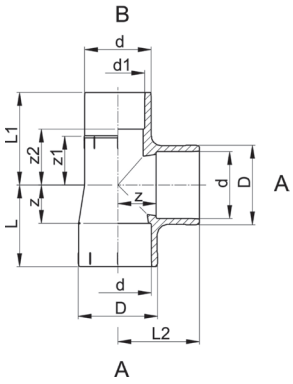
PRO-FIT elbow 45° PVC-U metric



Model:

- Outlet: A = Solvent cemented socket metric
- Outlet: B = Solvent cemented spigot in combination with reducing socket metric
- Direct connection from fitting to fitting allowing shortest possible overall length

d (mm)	d1 (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	z1 (mm)	z2 (mm)	D (mm)	L (mm)	L1 (mm)
20	16	16	**721 150 306**	10	0.010	5	9	11	25	21	25
25	20	16	**721 150 307**	10	0.015	6	11	14	31	25	30
32	25	16	**721 150 308**	10	0.027	8	13	16	38	30	35
40	32	16	**721 150 309**	5	0.053	10	17	21	47	36	43
50	40	16	**721 150 310**	5	0.090	12	18	23	58	43	49
63	50	16	**721 150 311**	5	0.175	14	23	30	73	52	61

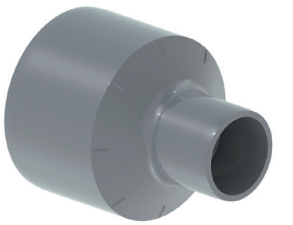


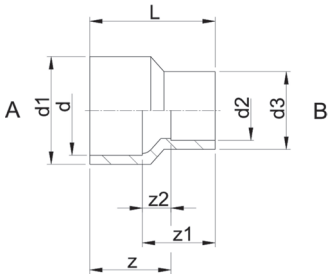
PRO-FIT tee 90° equal PVC-U metric

Model:

- Outlet: A = Solvent cemented socket metric
- Outlet: B = Solvent cemented spigot in combination with reducing socket metric
- Direct connection from fitting to fitting allowing shortest possible overall length

d (mm)	d1 (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	z1 (mm)	z2 (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)
20	16	16	**721 200 306**	10	0.017	11	17	19	25	27	33	27
25	20	16	**721 200 307**	10	0.022	14	19	22	31	33	38	33
32	25	16	**721 200 308**	10	0.051	17	24	27	38	39	46	39
40	32	16	**721 200 309**	10	0.098	23	30	34	47	47	56	49
50	40	16	**721 200 310**	10	0.164	26	36	41	58	57	67	57
63	50	16	**721 200 311**	10	0.329	33	45	52	73	71	83	71



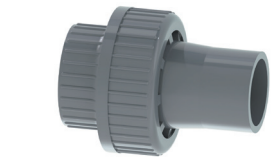


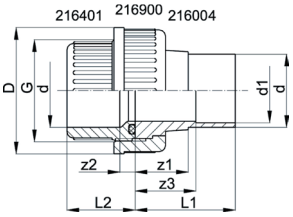
PRO-FIT reducing bush PVC-U metric

Model:

- Outlet: A and B = Solvent cemented spigot in combination with reducing socket metric

d (mm)	d1 (mm)	d2 (mm)	d3 (mm)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	z1 (mm)	z2 (mm)	L (mm)
10	14	8	12		16	**721 910 903**	10	0.003	15	15	3	27
12	16	8	12		16	**721 910 905**	10	0.004	18	18	6	30
12	16	10	16		16	**721 910 906**	10	0.004	18	18	6	30
16	20	10	16		16	**721 910 908**	10	0.003	21	19	7	33
16	20	12	16		16	**721 910 909**	10	0.004	21	19	7	33
20	25	12	16		16	**721 910 910**	10	0.008	25	21	9	37
20	25	16	20		16	**721 910 911**	10	0.008	25	23	9	39
25	32	12	16		16	**721 910 912**	10	0.014	30	23	11	42
25	32	16	20		16	**721 910 913**	10	0.015	30	26	12	44
25	32	20	25		16	**721 910 914**	10	0.017	30	27	11	46
32	40	16	20		16	**721 910 915**	10	0.025	36	28	14	50
32	40	20	25		16	**721 910 916**	10	0.026	36	30	14	52
32	40	25	32		16	**721 910 917**	10	0.031	36	33	14	55
40	50	20	25		16	**721 910 918**	10	0.045	44	34	18	60
40	50	25	32		16	**721 910 919**	10	0.052	44	37	18	63
40	50	32	40		16	**721 910 920**	10	0.058	44	40	18	66
50	63	25	32		16	**721 910 921**	5	0.092	54	42	23	73
50	63	32	40		16	**721 910 922**	5	0.098	54	45	23	76
50	63	40	50		16	**721 910 923**	5	0.111	54	49	23	80
63	75	32	40		16	**721 910 924**	5	0.127	62	46	24	84
63	75	40	50		16	**721 910 925**	5	0.139	62	50	24	88
63	75	50	63		16	**721 910 926**	5	0.167	62	55	24	93
75	90	40	50	2 ½	16	**721 910 927**	10	0.224	74	56	30	100
75	90	50	63	2 ½	16	**721 910 928**	10	0.253	74	61	30	105
75	90	63	75	2 ½	16	**721 910 929**	10	0.265	74	68	30	112





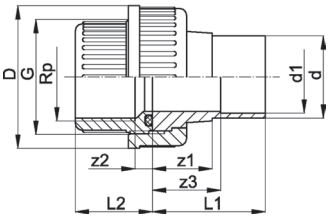
PRO-FIT union PVC-U metric

Model:

- Union End: Solvent cemented spigot in combination with reducing socket metric
- Union Bush: Solvent socket metric
- Gasket: O-Ring EPDM code no. 748 410 005-011; FKM: 749 410 005-011

	d (mm)	PN (bar)	d1 (mm)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
*	16	16	12	**721 510 305**	10	0.029	**721 510 330**	10	0.029
*	20	16	16	**721 510 306**	10	0.046	**721 510 331**	10	0.044
*	25	16	20	**721 510 307**	10	0.073	**721 510 332**	10	0.073
*	32	16	25	**721 510 308**	10	0.097	**721 510 333**	10	0.095
	40	16	32	**721 510 309**	10	0.169	**721 510 334**	10	0.171
	50	16	40	**721 510 310**	10	0.250	**721 510 335**	10	0.250
	63	16	50	**721 510 311**	5	0.437	**721 510 336**	10	0.449

	d (mm)	G (inch)	z1 (mm)	z2 (mm)	z3 (mm)	D (mm)	L1 (mm)	L2 (mm)
*	16	¾	22	10	24	35	36	24
*	20	1	24	10	26	43	40	26
*	25	1 ¼	25	10	28	51	44	29
*	32	1 ½	27	10	30	58	49	33
	40	2	31	12	35	74	57	39
	50	2 ¼	35	14	40	83	66	46
	63	2 ¾	39	18	46	100	77	58



PRO-FIT adaptor union PVC-U metric Rp

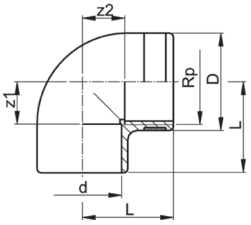
Model:

- Union End: Solvent cemented spigot in combination with reducing socket metric
- Union Bush: Threaded socket with parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 005-011
- Gasket: O-ring FKM code no. 749 410 005-011 (to be ordered separately)
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

	d (mm)	d1 (mm)	Rp (inch)	PN (bar)	EPDM Code	SP	Weight (kg)
*	16	12	⅜	10	**721 510 405**	10	0.032
*	20	16	½	10	**721 510 406**	10	0.046
*	25	20	¾	10	**721 510 407**	10	0.079
*	32	25	1	10	**721 510 408**	10	0.116
	40	32	1 ¼	10	**721 510 409**	10	0.192
	50	40	1 ½	10	**721 510 410**	10	0.263
	63	50	2	10	**721 510 411**	10	0.496

	d (mm)	G (inch)	z1 (mm)	z2 (mm)	z3 (mm)	D (mm)	L1 (mm)	L2 (mm)
*	16	¾	22	13	24	35	36	24
*	20	1	24	13	26	43	40	26
*	25	1 ¼	25	14	28	51	44	29
*	32	1 ½	27	15	30	58	49	32
	40	2	31	19	35	74	57	38
	50	2 ¼	35	26	40	83	66	45
	63	2 ¾	39	33	46	100	77	56

Adaptor fittings

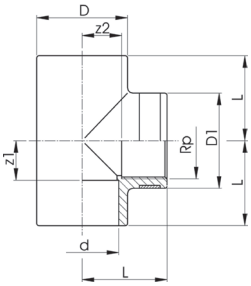


Elbow 90° PVC-U metric Rp

Model:

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

d (mm)	Rp (inch)	PN (bar)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	D (mm)	L (mm)
12	¼	16	**721 100 204**	10	0.010	7	7	20	19
16	⅜	16	**721 100 205**	10	0.015	9	9	25	23
20	½	16	**721 100 206**	10	0.023	13	11	30	27
25	¾	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 ¼	16	**721 100 209**	10	0.122	23	27	55	50
50	1 ½	16	**721 100 210**	5	0.187	27	36	62	58
63	2	16	**721 100 211**	10	0.324	33	46	75	73

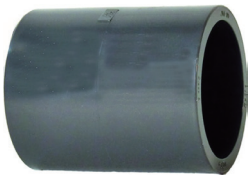


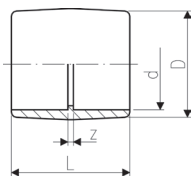
Tee 90° PVC-U metric Rp

Model:

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

d (mm)	Rp (inch)	PN (bar)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	D (mm)	D1 (mm)	L (mm)
12	¼	16	**721 200 204**	10	0.015	7	7	17	20	19
16	⅜	16	**721 200 205**	10	0.027	9	9	21	25	23
20	½	16	**721 200 206**	10	0.029	11	13	26	30	29
25	¾	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 ¼	16	**721 200 209**	10	0.134	23	26	47	55	49
50	1 ½	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





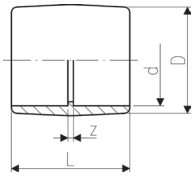
Adaptor socket PVC-U metric Inch/BS

Model:

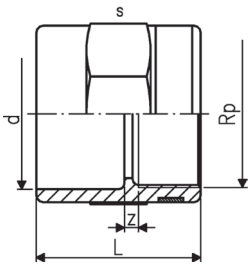
- With solvent cement sockets metric and BS inch

d (mm)	d (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
16	⅜	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

table continued on the next page



d (mm)	d (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
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

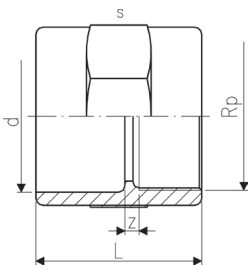


Adaptor socket PVC-U metric Rp

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)	Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)	s (mm)
12	Rp	¼	16	**721 910 204**	10	0.010	4	27	22
16	Rp	⅜	16	**721 910 205**	10	0.016	5	31	27
20	Rp	½	16	**721 910 206**	10	0.025	5	36	32
25	Rp	¾	16	**721 910 207**	10	0.032	5	40	36
32	Rp	1	16	**721 910 208**	10	0.057	5	45	46
40	Rp	1 ¼	16	**721 910 209**	10	0.087	5	51	55
50	Rp	1 ½	16	**721 910 210**	10	0.126	7	59	65
63	Rp	2	16	**721 910 211**	5	0.206	7	69	80

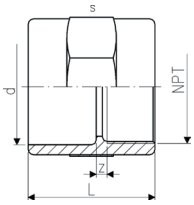


Adaptor socket PVC-U metric Rp

Model:

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

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

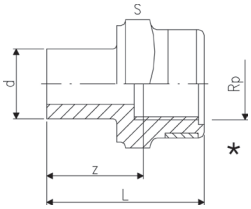


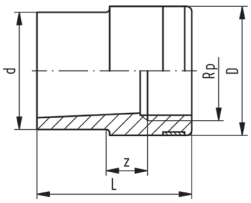
Adaptor socket PVC-U metric NPT

Model:

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

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



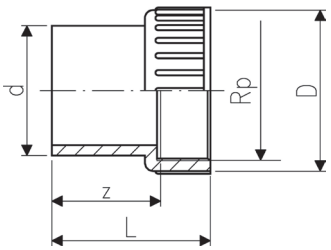


Reducing bush PVC-U metric Rp

Model:

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

	d (mm)	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	⅜	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	

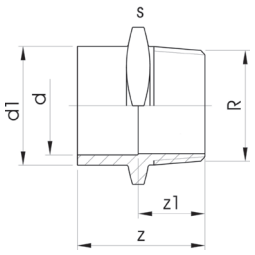


Adaptor bush equal PVC-U metric Rp

Model:

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

d (mm)	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

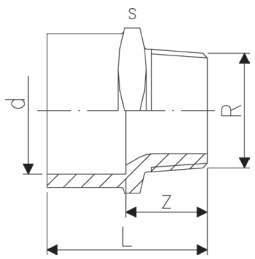


Adaptor socket nipple PVC-U metric R

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

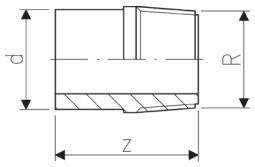


Adaptor bush equal PVC-U metric R

Model:

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

d (inch)	Thread Type	Size (inch)	d (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)	s (mm)
⅜	R	⅜	16	16	**721 910 705**	10	0.011	20	34	27
½	R	½	20	16	**721 910 706**	10	0.018	24	40	32
¾	R	¾	25	16	**721 910 707**	10	0.025	25	44	36
1	R	1	32	16	**721 910 708**	10	0.039	28	50	46
1 ¼	R	1 ¼	40	16	**721 910 709**	10	0.061	31	57	55
1 ½	R	1 ½	50	16	**721 910 710**	10	0.092	32	63	65
2	R	2	63	16	**721 910 711**	5	0.161	38	76	80
2 ½	R	2 ½	75	10	**721 910 712**	6	0.227	42	86	90
3	R	3	90	10	**721 910 713**	5	0.389	46	97	110
4	R	4	110	10	**721 910 714**	5	0.572	53	114	130



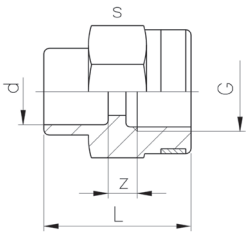
Adaptor nipple PVC-U metric R

Model:

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

d (mm)	Size (inch)	Thread Type	PN (bar)	Code	SP	Weight (kg)	z (mm)
16	⅜	R	10	**721 913 505**	10	0.006	31
20	½	R	10	**721 913 506**	10	0.010	35
25	¾	R	10	**721 913 507**	10	0.017	40
32	1	R	10	**721 913 508**	10	0.026	46

Manometer adaptor sockets PVC-U metric G

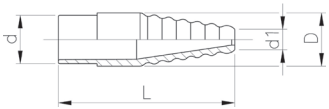


Model:

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

d (mm)	G (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)	s (mm)
12	¼	16	**721 916 204**	10	0.010	4	27	22
16	½	16	**721 916 206**	10	0.026	7	36	32

Hose connector PVC-U metric

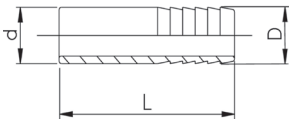


Model:

- With solvent cement spigot metric and tapered hose connection

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

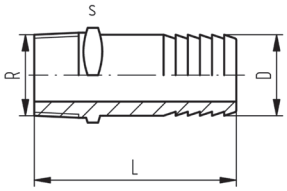
Hose connector PVC-U metric



Model:

- With solvent cement spigot metric and parallel hose connection

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	**721 960 508**	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

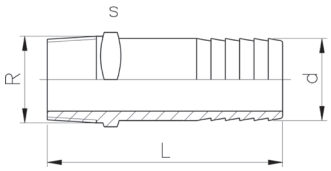


Hose connector PVC-U R

Model:

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

R (inch)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)	s (mm)
¼	10	**721 960 704**	10	0.003	12	59	14
⅜	10	**721 960 705**	10	0.006	16	67	19
½	10	**721 960 706**	10	0.019	20	86	22
¾	10	**721 960 707**	10	0.026	25	92	27
1	10	**721 960 708**	5	0.048	30	103	36
1 ¼	10	**721 960 709**	5	0.079	40	115	46

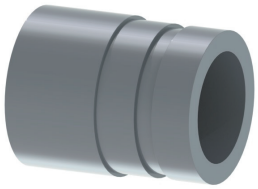


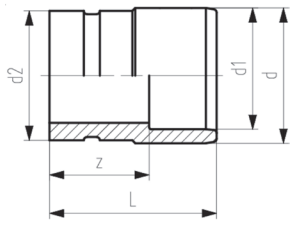
Hose connector PVC-U R reduced

Model:

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

Size (inch)	Thread Type	Code	SP	Weight (kg)	s (mm)	d (mm)	L (mm)
½	R	**721 961 706**	10	0.012	22	14	70
¾	R	**721 961 707**	10	0.021	27	20	80
1	R	**721 961 708**	5	0.042	36	27	90



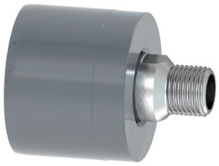


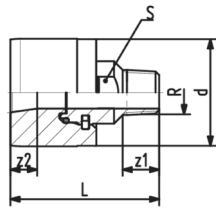
Adaptor fitting PVC-U metric - Victaulic

Model:

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

d (mm)	d1 (mm)	Size (inch)	d2 (inch)	d2- victaulic (inch)	PN (bar)	Code	SP	Weight (kg)	L (mm)	z (mm)
50	40		1 ½	1 1/2	10	**721 910 090**	50	0.150	71	45
63	50		2	2	10	**721 910 091**	50	0.200	78	47
75	63	2 ½	2 ½	2 1/2	10	**721 910 092**	50	0.250	84	46



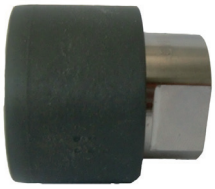


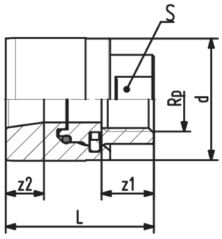
Adaptor fitting PVC-U/stainless steel

Model:

- Stainless steel WN 1.4404 (3162 with taper male thread R
- Gasket: O-Ring EPDM

d (mm)	Rp (inch)	Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	L (mm)	S (mm)
40	½	R	½	10	**721 940 631**	10	0.335	17.0	12.4	63.2	25
50	½	R	½	10	**721 940 632**	10	0.402	17.0	12.5	69.2	25
50	¾	R	¾	10	**721 940 633**	10	0.414	18.5	13.0	72.9	30
63	½	R	½	10	**721 940 634**	10	0.521	17.0	7.1	81.2	25
63	¾	R	¾	10	**721 940 635**	10	0.533	18.5	13.0	84.9	30
63	1	R	1	10	**721 940 636**	10	0.542	21.5	18.9	89.7	36



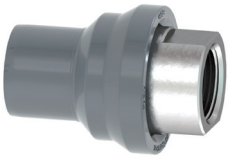


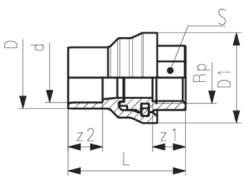
Adaptor fitting PVC-U/stainless steel

Model:

- Stainless steel WN 1.4404 (3162) with parallel female thread Rp
- Gasket: O-Ring EPDM

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	L (mm)	S (mm)
40	Rp	½	10	**721 940 131**	10	0.267	17.0	12.4	63.2	25
50	Rp	½	10	**721 940 132**	10	0.345	17.0	12.5	69.2	25
50	Rp	¾	10	**721 940 133**	10	0.352	18.5	13.0	72.9	30
63	Rp	½	10	**721 940 134**	10	0.432	17.0	7.1	81.2	25
63	Rp	¾	10	**721 940 135**	10	0.441	18.5	13.0	84.9	30
63	Rp	1	10	**721 940 136**	10	0.453	21.5	18.9	89.7	36



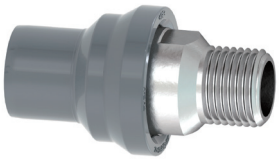


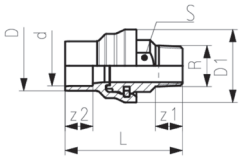
Adaptor Fitting PVC-U/stainless steel Rp

Model:

- Adaptor fitting equally suitable as socket and spigot
- Stainless steel WN 1.4404 (3162) with parallel female thread Rp
- Gasket: O-ring EPDM No. 48 41 01

d (mm)	Thread Type	Size (inch)	D (mm)	PN (bar)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	D1 (mm)	L (mm)	S (mm)
20	Rp	½	25	16	**721 940 106**	10	0.095	17	17	40	70	25
25	Rp	¾	32	16	**721 940 107**	5	0.171	19	19	50	83	30
32	Rp	1	40	16	**721 940 108**	5	0.262	22	23	59	96	36



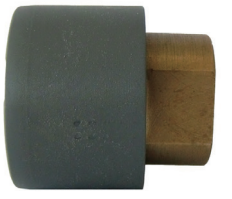


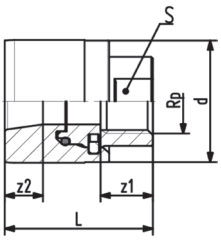
Adaptor Fitting PVC-U/stainless steel R

Model:

- Adaptor fitting equally suitable as socket and spigot
- Stainless steel with taper male thread R
- Gasket: O-ring EPDM No. 48 41 01

PN (bar)	D (mm)	R (inch)	d (mm)	Code	SP	Weight (kg)	D1 (mm)	S (mm)	z2 (mm)	z1 (mm)	L (mm)
16	25	½	20	**721 940 606**	10	0.120	40	25	17	17	70
16	32	¾	25	**721 940 607**	5	0.213	50	30	19	19	83
16	40	1	32	**721 940 608**	5	0.320	59	36	23	22	96



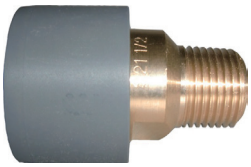


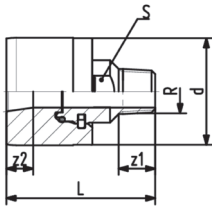
Adaptor fitting PVC-U/brass

Model:

- Brass with parallel female thread Rp
- Gasket: O-Ring EPDM

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	L (mm)	S (mm)
40	Rp	½	10	**721 950 131**	10	0.279	17.0	12.4	48.2	25
50	Rp	½	10	**721 950 132**	5	0.355	17.0	12.5	54.2	25
50	Rp	¾	10	**721 950 133**	10	0.362	18.5	13.0	54.9	30
63	Rp	½	10	**721 950 134**	10	0.526	17.0	7.1	66.2	25
63	Rp	¾	10	**721 950 135**	5	0.531	18.5	13.0	66.9	30
63	Rp	1	10	**721 950 136**	5	0.542	21.5	18.9	70.7	36



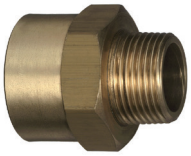


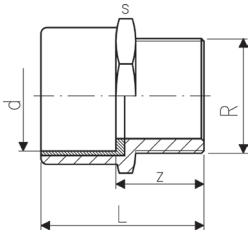
Adaptor fitting PVC-U/brass

Model:

- Brass with taper male thread R
- Gasket: O-Ring EPDM

d (mm)	Rp (inch)	Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	L (mm)	S (mm)
40	½	R	½	10	**721 950 631**	10	0.352	17.0	12.4	63.2	25
50	½	R	½	10	**721 950 632**	10	0.438	17.0	12.5	69.2	25
50	¾	R	¾	10	**721 950 633**	10	0.442	18.5	13.0	72.9	30
63	½	R	½	10	**721 950 634**	10	0.498	17.0	7.1	81.2	25
63	¾	R	¾	10	**721 950 635**	10	0.512	18.5	13.0	84.9	30
63	1	R	1	10	**721 950 636**	10	0.521	21.5	18.9	89.7	36



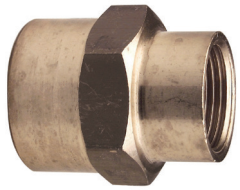


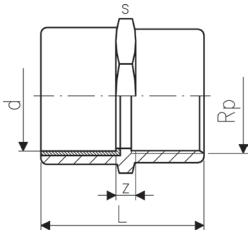
Adaptor socket brass/PVC-U metric R

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)	Size (inch)	PN (bar)	Thread Type	Code	SP	Weight (kg)	z (mm)	L (mm)	s (mm)
40	1 ¼	16	R	**720 910 709**	1	0.437	36	64	58
50	1 ½	16	R	**720 910 710**	1	0.671	38	72	70
63	2	16	R	**720 910 711**	1	1.035	43	84	85



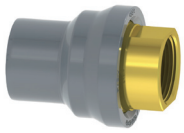


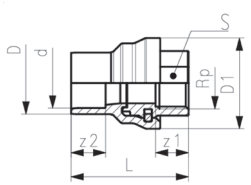
Adaptor socket brass/PVC-U metric Rp

Model:

- Brass with parallel female thread Rp and PVC-U solvent cement socket insert, metric
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)	s (mm)
40	Rp	1 ¼	16	**720 910 209**	1	0.482	17	66	58
50	Rp	1 ½	16	**720 910 210**	1	0.737	19	74	70
63	Rp	2	16	**720 910 211**	1	1.130	19	86	83



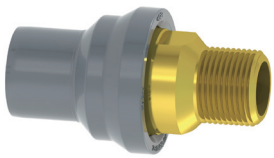


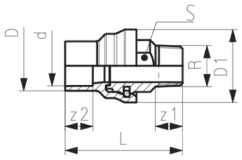
Adaptor Fitting PVC-U/brass Rp

Model:

- Adaptor fitting equally suitable as socket and spigot
- Brass with parallel female thread Rp
- Gasket: O-Ring EPDM

d (mm)	Thread Type	Size (inch)	D (mm)	PN (bar)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	D1 (mm)	L (mm)	S (mm)
20	Rp	½	25	16	**721 950 106**	10	0.098	17.0	16.5	40	54.5	25
25	Rp	¾	32	16	**721 950 107**	5	0.181	18.5	19.0	50	65.2	30
32	Rp	1	40	16	**721 950 108**	5	0.270	21.5	22.5	59	76.5	36





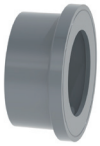
Adaptor Fitting PVC-U/brass R

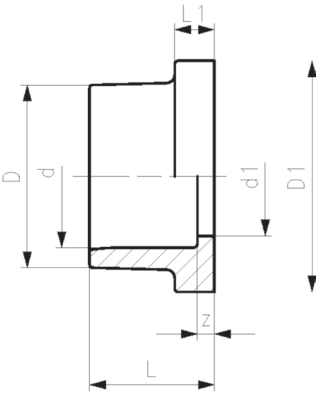
Model:

- Adaptor fitting equally suitable as socket and spigot
- Brass with taper male thread R
- Gasket: O-ring EPDM No. 48 41 01

d (mm)	Thread Type	Size (inch)	D (mm)	PN (bar)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	D1 (mm)	L (mm)	S (mm)
20	R	½	25	16	**721 950 606**	10	0.129	17	17	40	70	25
25	R	¾	32	16	**721 950 607**	5	0.232	19	19	50	83	30
32	R	1	40	16	**721 950 608**	5	0.390	22	23	59	96	36

Flange adaptors/Fixed Face Flanges





Flange adaptor PVC-U
Combined jointing face flat and serrated metric

Model:

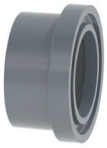
- Solvent cement socket metric
- d16 - d50: Sealing surface flat
- d63 - d400: combined jointing face flat and serrated
- Combination with gasket: profile flange gasket EPDM code no. 748 440 705-725, FKM code no. 749 440 705-725 or flat gasket EPDM code no. 748 440 705-725, only use O-ring EPDM code no. 748 410 000-174, FKM code no. 749 410 000-174 in combination with conterpart flange adaptor code no. 721 810 105-123
- Combination with flanges (metric & ANSI): PVC-U, PP-V, PP-Steel

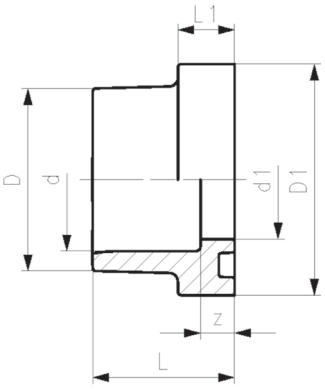
Note:

* bevel on pipe may be needed if used with butterfly valve type 037/038/039
The flat gasket affects the maximum allowable operating pressure!

	d (inch)	d (mm)	Size (inch)	DN (mm)	PN (bar)	Code	SP	Weight (kg)
		16		10	16	**721 800 105**	10	0.006
		20		15	16	**721 800 106**	10	0.009
		25		20	16	**721 800 107**	10	0.015
		32		25	16	**721 800 108**	10	0.024
		40		32	16	**721 800 109**	10	0.039
		50		40	16	**721 800 110**	10	0.056
		63		50	16	**721 790 111**	10	0.103
	2 ½	75	2 ½	65	16	**721 790 112**	10	0.159
		90		80	16	**721 790 113**	10	0.253
		110		100	16	**721 790 114**	10	0.417
		125		125	16	**721 790 115**	5	0.533
	5	140	5	125	16	**721 790 116**	6	0.725
		160	6	150	16	**721 790 117**	2	1.093
*		200		200	10	**721 790 119**	2	1.460
		225		200	10	**721 790 120**	2	1.743
*		250		250	10	**721 790 121**	1	2.203
		280		250	10	**721 790 122**	1	2.930
*		315		300	6	**721 790 123**	1	4.455
		355		350	6	**721 790 124**	1	5.963
		400		400	6	**721 790 125**	1	9.041

	D (mm)	D1 (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)
	22	29	13	17	6	3
	27	34	16	19	6	3
	33	41	21	22	7	3
	41	50	28	25	7	3
	50	61	36	29	8	3
	61	73	45	34	8	3
	77	90	57	41	9	3
	91	106	69	47	10	3
	108	125	82	56	11	5
	131	150	102	66	12	5
	148	170	117	74	13	5
	165	188	132	81	14	5
	188	213	152	91	16	5
*	224	250	192	112	24	6
	248	274	217	125	25	6
*	274	303	240	140	23	9
	308	329	270	151	23	5
*	346	379	302	172	27	8
	384	430	341	194	32	10
	438	482	384	216	34	10



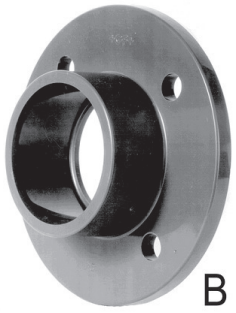


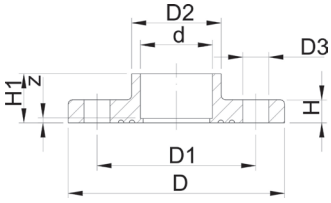
Flange adaptor PVC-U
Jointing face with O-ring groove metric

Model:

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

d (inch)	d (mm)	DN (mm)	PN (bar)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)
	16	10	16	**721 810 105**	10	0.008	22	29	13	20	9	6
	20	15	16	**721 810 106**	10	0.011	27	34	16	22	9	6
	25	20	16	**721 810 107**	10	0.018	33	41	21	25	10	6
	32	25	16	**721 810 108**	10	0.027	41	50	28	28	10	6
	40	32	16	**721 810 109**	10	0.046	50	61	36	34	13	8
	50	40	16	**721 810 110**	10	0.068	61	73	45	39	13	8
	63	50	16	**721 810 111**	10	0.120	77	90	57	46	14	8
2 ½	75	65	16	**721 810 112**	10	0.183	91	106	69	52	15	8
	90	80	16	**721 810 113**	10	0.286	108	125	82	61	16	10
	110	100	16	**721 810 114**	10	0.478	131	150	102	72	18	11
	125	125	16	**721 810 115**	5	0.607	148	170	117	80	19	11
5	140	125	16	**721 810 116**	6	0.804	165	188	132	87	20	11
	160	150	16	**721 810 117**	2	1.226	188	213	152	97	22	11
	200	200	10	**721 810 119**	2	1.593	224	250	192	118	30	12
	225	200	10	**721 810 120**	2	1.878	248	274	217	131	31	12
	250	250	10	**721 810 121**	1	2.175	274	303	240	140	23	9
	280	250	10	**721 810 122**	1	3.170	308	329	270	158	30	13
	315	300	6	**721 810 123**	1	4.891	346	379	302	180	35	17





Fixed flange PVC-U
Combined jointing 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)	PN (bar)	d (inch)	Type	Code	SP	Weight (kg)
	20	15	16		A	**721 740 106**	50	0.100
	25	20	16		A	**721 740 107**		0.130
	32	25	16		A	**721 740 108**	1	0.185
	40	32	16		A	**721 740 109**	1	0.306
	50	40	16		A	**721 740 110**	1	0.368
	63	50	16		A	**721 740 111**	1	0.513
*	75	65	10	2 ½	B	**721 740 112**	10	0.536
*	90	80	10	3	B	**721 740 113**	16	0.710
*	110	100	10	4	B	**721 740 114**	12	0.941
*	140	125	10	5	B	**721 740 116**	1	1.395
*	160	150	10	6	B	**721 740 117**	1	2.029

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

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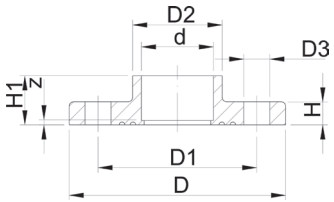


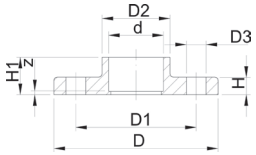
	d (mm)	D (mm)	D1 (mm)	D1 max. (mm)	D1 min. (mm)	D2 (mm)	D3 (mm)	z (mm)	H (mm)	H1 (mm)	AL	SC
	50	150	110			62	18	3	17	34	4	M16
	63	165	125			77	18	3	20	41	4	M16
*	75	185		140	144	91	19	3	21	47	4	M16
*	90	200		153	159	108	19	5	22	56	8	M16
*	110	220		181	191	131	24	5	24	66	8	M20
*	140	250	215			165	23	5	28	91	8	M20
*	160	285	240			188	23	5	30	91	8	M20

Fixed flange PVC-U
Jointing 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

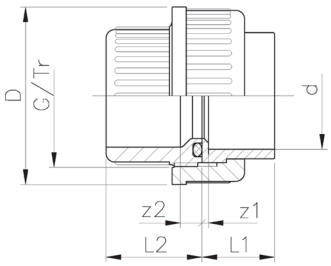
* Combined Flange, connecting dimensions EN1092 PN 10 and ANSI B 16.5 Class 150



	d (mm)	DN (mm)	Size (inch)	PN (bar)	Code	SP	Weight (kg)
	20	15	½	16	**721 730 206**		0.098
	25	20	¾	16	**721 730 207**		0.130
	32	25	1	16	**721 730 208**	0	0.183
	40	32	1 ¼	16	**721 730 209**		0.305
	50	40	1 ½	16	**721 730 210**		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

Unions



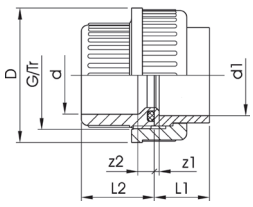
Union for solvent cement jointing PVC-U metric

Model:

- Union End: solvent socket metric
- Union Bush: Solvent socket metric
- Jointing face: With O-ring groove
- Gasket: O-Ring EPDM code no. 748 410 004-016; d90 748 410 248; FKM: 749 410 004-016; d90 749 410 248

d (mm)	d (inch)	Size (inch)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM 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	0.147	**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**	5	0.356	**721 510 136**	5	0.361
75	2 ½	2 ½	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



Union for solvent cement jointing PVC-U metric/ASTM

Model:

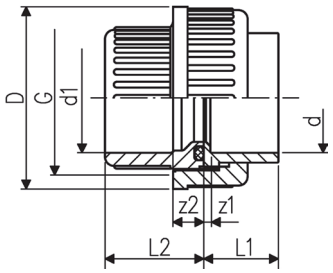
- Union End: Solvent cement socket ASTM
- Union Bush: Solvent socket metric
- Gasket: O-ring EPDM code no. 748 410 005-011
- Gasket: O-ring FKM code no. 749 410 005-011 (to be ordered separately)

d (mm)	d1 (inch)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	G (inch)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)
16	⅜	⅜	16	**721 514 105**	10	0.022	¾	3	10	35	22	24
20	½	½	16	**721 514 106**	10	0.042	1	3	10	43	25	26
25	¾	¾	16	**721 514 107**	10	0.065	1 ¼	3	10	51	28	29
32	1	1	16	**721 514 108**	10	0.103	1 ½	3	10	58	32	33
40	1 ¼	1 ¼	16	**721 514 109**	10	0.174	2	3	12	72	35	39
50	1 ½	1 ½	16	**721 514 110**	5	0.239	2 ¼	3	14	83	38	46
63	2	2	16	**721 514 111**	5	0.356	2 ¾	3	18	100	41	58

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 FKM code no. 749 410 005-011 (to be ordered separately)

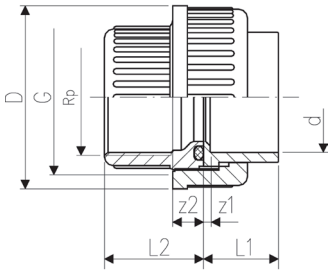


d (mm)	d1 (inch)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	G (inch)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)
16	⅜	⅜	15	**721 513 105**	10	0.025	¾	3	8	35	17	24
20	½	½	15	**721 513 106**	10	0.040	1	3	9	43	19	26
25	¾	¾	15	**721 513 107**	10	0.065	1 ¼	3	9	51	22	29
32	1	1	15	**721 513 108**	10	0.090	1 ½	3	9	58	25	33
40	1 ¼	1 ¼	15	**721 513 109**	10	0.155	2	3	10	72	29	39
50	1 ½	1 ½	15	**721 513 110**	5	0.200	2 ¼	3	10	83	34	46
63	2	2	15	**721 513 111**	5	0.341	2 ¾	3	10	100	41	58

Adaptor union PVC-U metric Rp

Model:

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

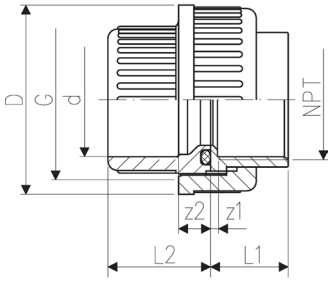


d (mm)	Thread Type	Size (inch)	PN (bar)	EPDM Code	SP	Weight (kg)	G (inch)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)
12	Rp	¼	10	**721 510 204**	10	0.019	⅝	3	12	31	15	22
16	Rp	⅜	10	**721 510 205**	10	0.020	¾	3	13	35	17	24
20	Rp	½	10	**721 510 206**	10	0.040	1	3	13	43	19	26
25	Rp	¾	10	**721 510 207**	10	0.057	1 ¼	3	14	51	22	29
32	Rp	1	10	**721 510 208**	10	0.084	1 ½	3	15	58	25	33
40	Rp	1 ¼	10	**721 510 209**	10	0.147	2	3	19	72	29	39
50	Rp	1 ½	10	**721 510 210**	2	0.218	2 ¼	3	26	83	34	46
63	Rp	2	10	**721 510 211**	2	0.383	2 ¾	3	33	100	41	58

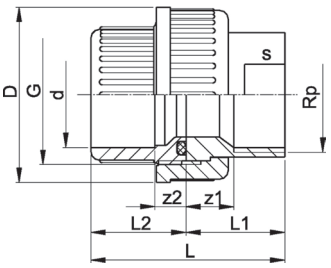
Adaptor union PVC-U metric NPT

Model:

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



d (mm)	Thread Type	Size (inch)	PN (bar)	EPDM Code	SP	Weight (kg)	G (inch)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)
16	NPT	⅜	10	**721 514 205**	10	0.026	¾	4	10	35	17	24
20	NPT	½	10	**721 514 206**	10	0.042	1	2	10	43	19	26
25	NPT	¾	10	**721 514 207**	10	0.068	1 ¼	4	10	51	22	29
32	NPT	1	10	**721 514 208**	10	0.093	1 ½	4	10	58	25	33
40	NPT	1 ¼	10	**721 514 209**	2	0.150	2	6	12	72	29	39
50	NPT	1 ½	10	**721 514 210**	2	0.228	2 ¼	11	14	83	34	46
63	NPT	2	10	**721 514 211**	2	0.387	2 ¾	17	18	100	41	58



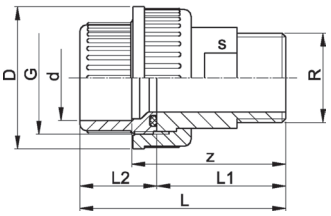
Adaptor union PVC-U/stainless steel metric Rp

Model:

- Union nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: Stainless Steel 1.4404 (316L), parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 005-011

d (mm)	Thread Type	Size (inch)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	Rp	⅜	16	**721 540 205**	10	0.053	**721 540 230**	10	0.053
20	Rp	½	16	**721 540 206**	10	0.096	**721 540 231**	10	0.096
25	Rp	¾	16	**721 540 207**	5	0.154	**721 540 232**	10	0.134
32	Rp	1	16	**721 540 208**	5	0.212	**721 540 233**	10	0.212
40	Rp	1 ¼	16	**721 540 209**	2	0.356	**721 540 234**	1	0.343
50	Rp	1 ½	16	**721 540 210**	2	0.455	**721 540 235**	1	0.455
63	Rp	2	16	**721 540 211**	2	0.730	**721 540 236**	1	0.721

d (mm)	G (inch)	z1 (mm)	z2 (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	s (mm)
16	¾	9	10	35	43	19	24	19
20	1	11	10	43	50	24	26	24
25	1 ¼	11	10	51	55	26	29	29
32	1 ½	12	10	58	61	29	33	36
40	2	14	12	72	71	33	39	45
50	2 ¼	15	14	83	79	34	46	54
63	2 ¾	15	18	100	95	39	58	63



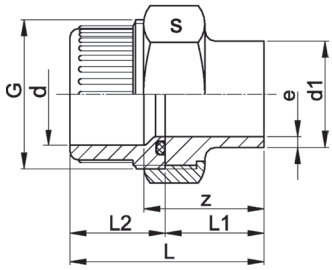
Adaptor union PVC-U/stainless steel metric R

Model:

- Union nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: Stainless Steel 1.4404 (316L), taper male thread R
- Gasket: O-ring EPDM code no. 748 410 005-011

d (mm)	Thread Type	Size (inch)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	R	⅜	16	**721 540 705**	10	0.073	**721 540 730**	1	0.073
20	R	½	16	**721 540 706**	10	0.126	**721 540 731**	10	0.126
25	R	¾	16	**721 540 707**	10	0.174	**721 540 732**	5	0.170
32	R	1	16	**721 540 708**	5	0.262	**721 540 733**	10	0.262
40	R	1 ¼	16	**721 540 709**	2	0.476	**721 540 734**	1	0.472
50	R	1 ½	16	**721 540 710**	2	0.535	**721 540 735**	1	0.535
63	R	2	16	**721 540 711**	2	0.934	**721 540 736**	1	0.931

d (mm)	G (inch)	z (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	s (mm)
16	¾	40	35	54	30	24	19
20	1	44	43	60	34	26	24
25	1 ¼	46	51	65	36	29	32
32	1 ½	50	58	72	40	33	37
40	2	58	72	84	46	39	48
50	2 ¼	62	83	93	48	46	54
63	2 ¾	73	100	111	55	58	69



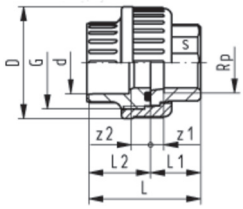
Adaptor union PVC-U/stainless steel metric
Welding end

Model:

- Union Bush: Solvent cement socket PVC-U metric
- Union End: Stainless Steel 1.4404 (316L) with welding end
- Union Nut: Stainless Steel WN 1.4404 (316L)
- Gasket: O-ring EPDM code no. 748 410 005-011

d (mm)	PN (bar)	d1 (mm)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	16	17	**721 545 505**	10	0.101	**721 545 530**	10	0.101
20	16	21	**721 545 506**	10	0.176	**721 545 531**	10	0.168
25	16	27	**721 545 507**	5	0.204	**721 545 532**	10	0.198
32	16	34	**721 545 508**	5	0.313	**721 545 533**	10	0.313
40	16	42	**721 545 509**	2	0.493	**721 545 534**	1	0.493
50	16	48	**721 545 510**	2	0.566	**721 545 535**	1	0.605
63	16	60	**721 545 511**	2	0.902	**721 545 536**	1	0.902

d (mm)	G (inch)	z (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	s (mm)
16	¾	28	42	18	24	1.6	32
20	1	32	48	22	26	2.0	41
25	1 ¼	33	52	23	29	2.0	46
32	1 ½	36	58	26	33	2.0	55
40	2	38	64	26	39	2.0	68
50	2 ¼	42	73	28	46	2.0	74
63	2 ¾	50	88	32	58	2.6	88



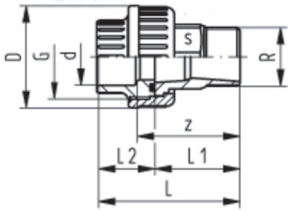
Adaptor union PVC-U/brass metric Rp

Model:

- Union nut: PVC-U
- Union bush: Solvent cement socket metric
- Union End: Brass with parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 006-014; d90 748 410 248

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)
20	Rp	½	16	**721 550 506**	10	0.088
25	Rp	¾	16	**721 550 507**	10	0.145
32	Rp	1	16	**721 550 508**	5	0.175
40	Rp	1 ¼	16	**721 550 509**	2	0.322
50	Rp	1 ½	16	**721 550 510**	2	0.467
63	Rp	2	16	**721 550 511**	8	0.776
75	Rp	2 ½	10	**721 550 512**	2	1.360
90	Rp	3	10	**721 550 513**	2	2.003

d (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	s (mm)	z1 (mm)	z2 (mm)	G (inch)
20	43	48	22	26	25	7	10	1
25	51	54	25	29	30	9	10	1 1/4
32	58	60	27	33	36	8	11	1 1/2
40	72	70	31	39	46	10	13	2
50	83	81	35	46	55	13	15	2 1/4
63	100	98	40	58	65	14	20	2 3/4
75	127	109	47	62	85	16	18	Tr 108x5
90	150	121	52	69	95	18	18	Tr 128x5



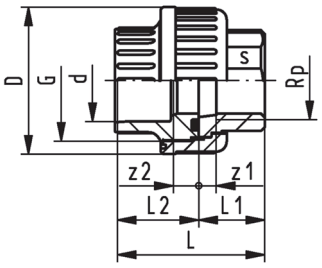
Adaptor union PVC-U/brass metric R

Model:

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

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)
20	R	½	16	**721 550 906**	10	0.125
25	R	½	16	**721 550 957**	5	0.196
25	R	¾	16	**721 550 907**	5	0.196
25	R	1	16	**721 550 967**	5	0.307
32	R	½	16	**721 550 958**	5	0.297
32	R	¾	16	**721 550 968**	5	0.297
32	R	1	16	**721 550 908**	5	0.283
40	R	1 ¼	16	**721 550 909**	2	0.502
50	R	1 ½	16	**721 550 910**	2	0.681
63	R	2	16	**721 550 911**	2	1.101
75	R	2 ½	10	**721 550 912**	2	1.706
90	R	3	10	**721 550 913**	1	2.662

d (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	G (inch)	s (mm)
20	43	63	37	26	47	1	25
25	51	66	37	29	47	1 1/4	30
25	51	71	42	29	52	1 1/4	30
25	51	75	46	29	56	1 1/4	30
32	58	70	37	33	48	1 1/2	36
32	58	75	42	33	53	1 1/2	36
32	58	79	46	33	57	1 1/2	36
40	72	91	52	39	65	2	46
50	83	102	56	46	71	2 1/4	55
63	100	125	67	58	87	2 3/4	65
75	127	139	77	62	95	Tr 108x5	85
90	150	155	86	69	104	Tr 125x8	95



Adaptor union PVC-U/malleable iron galvanised metric Rp

Model:

- Union nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: malleable iron with parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 006-014; d90 748 410 248

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)
20	Rp	½	16	**721 530 306**	10	0.073
25	Rp	¾	16	**721 530 307**	5	0.107
32	Rp	1	16	**721 530 308**	5	0.154
40	Rp	1 ¼	16	**721 530 309**	2	0.282
50	Rp	1 ½	16	**721 530 310**	2	0.377
63	Rp	2	16	**721 530 311**	2	0.594
75	Rp	2 ½	10	**721 530 312**	2	1.008
90	Rp	3	10	**721 530 313**	2	1.350

d (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	z1 (mm)	z2 (mm)	G (inch)	s (mm)
20	43	48	22	26	9	10	1	25
25	51	51	22	29	7	10	1 1/4	31
32	58	58	26	33	9	10	1 1/2	38
40	72	69	31	39	12	12	2	48

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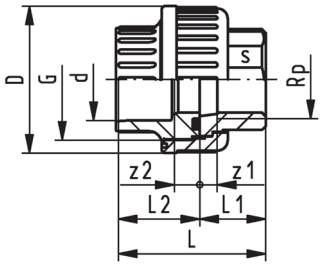
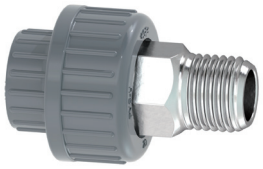


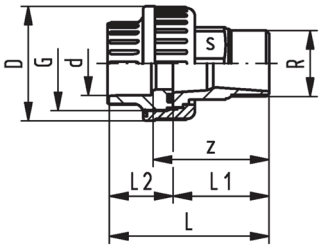
d (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	z1 (mm)	z2 (mm)	G (inch)	s (mm)
50	83	78	33	46	14	14	2 1/4	54
63	100	91	35	58	11	18	2 3/4	67
75	127	101	39	62	12	18	Tr 108x5	85
90	150	114	45	69	15	19	Tr 128x5	96



Adaptor union PVC-U/malleable iron galvanised metric R

Model:

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



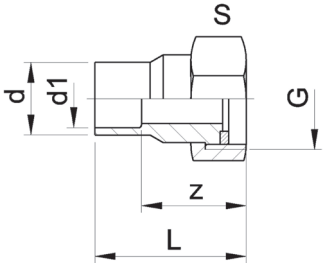
d (mm)	Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)
20	R	½	16	**721 530 806**	10	0.107
25	R	¾	16	**721 530 807**	5	0.159
32	R	1	16	**721 530 808**	5	0.213
40	R	1 ¼	16	**721 530 809**	2	0.426
50	R	1 ½	16	**721 530 810**	2	0.528
63	R	2	16	**721 530 811**	5	0.863
75	R	2 ½	10	**721 530 812**	2	1.441
90	R	3	10	**721 530 813**	1	1.873

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

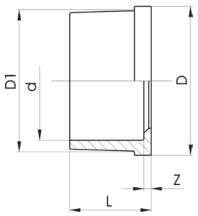
Tap connectors PVC-U/brass metric G

Model:

- Union End: PVC-U, solvent cement socket / spigot metric
- Union Nut: brass with female thread G
- Gasket: flat gasket EPDM code no. 748 400 030; 748 400 005-006



d (mm)	d1 (mm)	Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)	s (mm)
16	12	G	½	16	**721 550 305**	10	0.031	22	34	24
20	16	G	¾	16	**721 550 306**	10	0.049	24	38	30
25	20	G	1	16	**721 550 307**	10	0.079	27	43	38



Union end PVC-U metric

Model:

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

* Must **not** be used for unions 721510112, 721510313 and 721510137, 721510338, only suitabl for Variable area flow meter

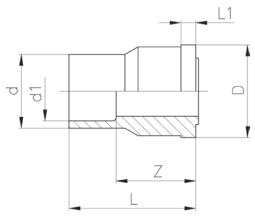
	d (mm)	PN (bar)	Size (inch)	Code	SP	Weight (kg)	z (mm)	D (mm)	D1 (mm)	L (mm)
	10	16		**721 500 103**	10	0.004	3	20	18	15
	12	16		**721 500 104**	10	0.003	3	20	18	15
	16	16		**721 500 105**	10	0.003	3	24	22	17
	20	16		**721 500 106**	10	0.008	3	30	28	19
	25	16		**721 500 107**	10	0.014	3	39	36	22
	32	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	2 ½	**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	2 ½	**721 600 112**	110	0.155	3	97	90	47
*	90	10		**721 600 113**		0.188	5	110	105	56

Union end PVC-U metric

Model:

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

d (mm)	PN (bar)	d1 (mm)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)	L1 (mm)
16	16	12	**721 600 305**	2000	0.005	22	19	34	3
20	16	16	**721 600 306**	800	0.009	24	24	38	5
25	16	20	**721 600 307**	1200	0.016	27	30	43	5



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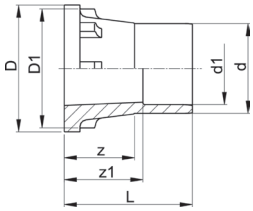
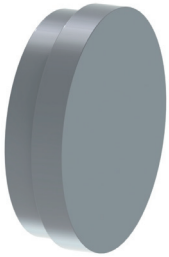


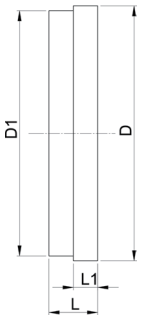
Union end with spigot PVC-U metric

Model:

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

	d (mm)	PN (bar)	d1 (mm)	Code	SP	Weight (kg)	z (mm)	z1 (mm)	D (mm)	D1 (mm)	L (mm)
*	16	16	12	**721 500 405**	10	0.010	22	24	24	22	36
*	20	16	16	**721 500 406**	10	0.009	24	26	30	28	40
*	25	16	20	**721 500 407**	10	0.026	25	28	39	36	44
*	32	16	25	**721 500 408**	10	0.035	27	30	45	42	49
	40	16	32	**721 500 409**	10	0.055	31	35	57	53	57
	50	16	40	**721 500 410**	10	0.085	35	40	63	59	66
	63	16	50	**721 500 411**	10	0.108	39	46	79	74	77



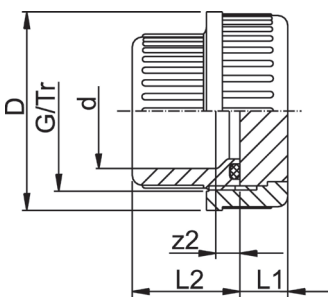


Union end blank PVC-U

Model:

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

d (mm)	DN (mm)	PN (bar)	Inch (inch)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)
10/12		16	1/8	**721 600 004**	900	0.006	20	18	9	4
16	10	16	3/8	**721 600 005**	800	0.004	24	22	10	5
20	15	16	1/2	**721 600 006**	500	0.009	30	28	11	5
25	20	16	3/4	**721 600 007**	400	0.017	39	36	11	6
32	25	16	1	**721 600 008**	300	0.025	45	42	12	6
40	32	16	1 1/4	**721 600 009**		0.042	57	53	13	7
50	40	16	1 1/2	**721 600 010**		0.061	63	59	16	7
63	50	16	2	**721 600 011**		0.108	78	74	18	8
75	65	10	2 1/2	**721 600 012**		0.216	101	90	22	10
90	80	10	3	**721 600 013**		0.333	121	108	24	11
110	100	10	4	**721 600 014**		0.530	146	131	26	12



Union with union end blank PVC-U metric

Model:

- Union Bush: Solvent socket metric
- Jointing face: With O-ring groove
- Gasket: O-Ring EPDM code no. 748 410 004-016; d90 748 410 248; FKM: 749 410 004-016; d90 749 410 248

d (mm)	Size (inch)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM 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

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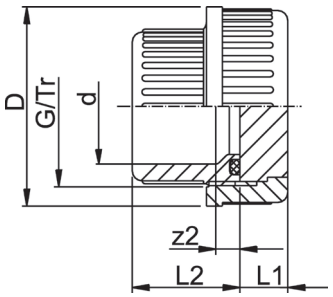
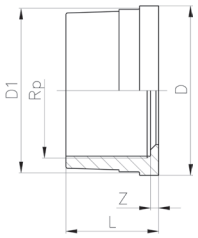


d (mm)	Size (inch)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63		16	**721 510 011**	16	0.392	**721 510 036**	10	0.405
75	2 ½	10	**721 510 012**	2	0.679	**721 510 037**	2	0.693
90		10	**721 510 213**	2	1.022	**721 510 238**	2	1.022
110		10	**721 510 014**	1	1.556	**721 510 039**	1	1.573

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

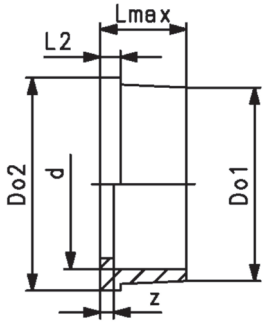


Union end PVC-U Rp

Model:

- Parallel female thread Rp

Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	D1 (mm)	L (mm)
Rp	¼	10	**721 600 654**	970	0.004	5	20	18	15
Rp	⅜	10	**721 600 655**	2000	0.005	6	24	22	17
Rp	½	10	**721 600 656**	1430	0.010	6	30	28	19
Rp	¾	10	**721 600 657**	1200	0.015	7	39	36	22
Rp	1	10	**721 600 658**	800	0.019	8	45	42	25
Rp	1 ¼	10	**721 600 659**	500	0.038	10	57	53	29
Rp	1 ½	10	**721 600 660**	300	0.057	11	63	59	34
Rp	2	10	**721 600 661**	170	0.102	18	78	74	41



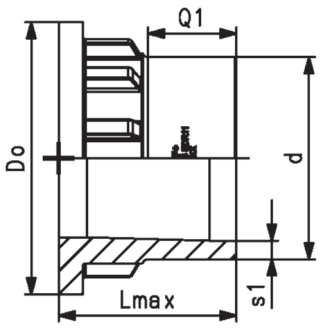
Union end PE80

Model:

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

*Only for variable area flow meters

	d (mm)	Do1 (mm)	Do2 (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	L2 (mm)	Lmax (mm)	z (mm)
	20	28	30	15	10	**734 600 106**	0.006	5	19	5
	25	36	39	20	10	**734 600 107**	0.013	5	21	5
	32	42	45	25	10	**734 600 108**	0.015	6	23	5
	40	53	57	32	10	**734 600 109**	0.026	6	25	5
	50	59	63	40	10	**734 600 110**	0.027	7	28	5
	63	74	79	50	10	**734 600 111**	0.044	8	32	5
*	75	90		65	10	**700 246 419**	0.163		47	3



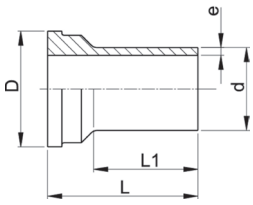
Union end PE100 S5/SDR11

Model:

- Conventional butt-welding according to DVS 2207
- IR = Infrared- (IR Plus®) compatible.
- **For the dimensions d75-110 please see instructions for the installation**

*Only for variable area flow meters

	d (mm)	DN (mm)	PN (bar)	FM	Code	Weight (kg)	Do (mm)	Lmax (mm)	Q1 (mm)	s1 (mm)
	20	15	16	IR	**753 508 606**	0.011	30	53.5	38	1.9
	25	20	16	IR	**753 508 607**	0.018	39	57.0	42	2.3
	32	25	16	IR	**753 508 608**	0.027	45	59.5	41	2.9
	40	32	16	IR	**753 508 609**	0.044	57	62.5	42	3.7
	50	40	16	IR	**753 508 610**	0.061	63	65.5	44	4.6
	63	50	16	IR	**753 508 611**	0.100	78	68.5	45	5.8
	75	65	10	IR	**753 608 612**	0.147	101	66.0	34	6.8
*	75	65	10	IR	**700 246 420**	0.300	101	66.0	34	6.8
	90	80	10	IR	**753 608 613**	0.156	101	66.0	55	8.2
	110	100	10	IR	**753 608 614**	0.226	121	66.0	55	10.0

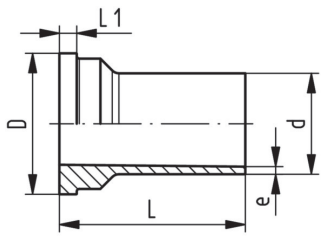


Union end PE100 S8.3/SDR17.6

Model:

- IR = Infrared- (IR Plus®) compatible.
- **For the dimensions d75-110 please see instructions for the installation**
- Conventional butt-welding according to DVS 2207

d (mm)	DN (mm)	PN (bar)	SDR	FM	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	e (mm)
75	65	10	17	IR	**753 608 412**	0.124	101	66	34	4.3
90	80	10	17	IR	**753 608 413**	0.131	101	66	57	5.1
110	100	10	17	IR	**753 608 414**	0.178	121	66	55	6.3



Spare parts for valve body type 514
Valve end with spigot

Model:

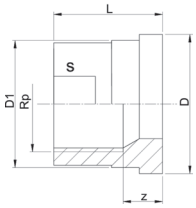
- Material: PVDF

d (mm)	FM	PVDF Code	D (mm)	L (mm)	L1 (mm)	e (mm)
20	BCF, IR	**735 608 606**	30	53	5	1.9
25	BCF, IR	**735 608 607**	39	56	5	1.9
32	BCF, IR	**735 608 608**	45	59	6	2.4
40	BCF, IR	**735 608 609**	57	62	6	2.4
50	BCF, IR	**735 608 610**	63	65	7	3.0
63	BCF, IR	**735 608 611**	78	68	8	3.0
75	BCF, IR	**735 608 612**	101	66	9	3.6
90	BCF, IR	**735 608 613**	101	65	9	4.3
110	BCF, IR	**735 608 614**	121	65	10	5.3

Adapter ring for valves

d (mm)	DN (mm)	Code	SP	Weight (kg)
20	15	**167 481 182**	1	0.003
25	20	**167 481 183**	1	0.003
32	25	**167 481 184**	1	0.004
40	32	**167 481 185**	1	0.008
50	40	**167 481 186**	1	0.014
63	50	**167 481 187**	1	0.026

Union end stainless steel Rp

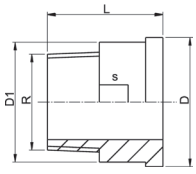


Model:

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

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	D (mm)	D1 (mm)	L (mm)	s (mm)
16	Rp	⅜	16	**724 600 655**	0.030	9	24	22	19	19
20	Rp	½	16	**724 600 656**	0.060	11	30	28	24	24
25	Rp	¾	16	**724 600 657**	0.092	11	39	36	26	29
32	Rp	1	16	**724 600 658**	0.137	12	45	42	29	36
40	Rp	1 ¼	16	**724 600 659**	0.226	14	57	53	33	45
50	Rp	1 ½	16	**724 600 660**	0.314	15	63	59	34	54
63	Rp	2	16	**724 600 661**	0.438	15	78	74	39	63

Union end stainless steel R

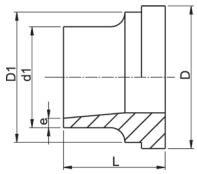


Model:

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

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	s (mm)
16	R	⅜	16	**724 600 705**	0.052	24	22	30	19
20	R	½	16	**724 600 706**	0.083	30	28	34	24
25	R	¾	16	**724 600 707**	0.125	39	36	36	32
32	R	1	16	**724 600 708**	0.189	45	42	40	37
40	R	1 ¼	16	**724 600 709**	0.356	57	53	46	48
50	R	1 ½	16	**724 600 710**	0.407	63	59	48	54
63	R	2	16	**724 600 711**	0.668	78	74	55	69

Union end stainless steel
Welding end

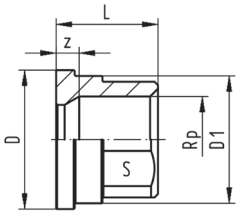


Model:

- Material: Stainless Steel 1.4404 (316L)

d (mm)	PN (bar)	d1 (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	e (mm)
16	16	17	**724 605 505**	0.029	24	22	18	1.6
20	16	21	**724 605 506**	0.046	30	28	22	2.0
25	16	27	**724 605 507**	0.080	39	36	23	2.0
32	16	34	**724 605 508**	0.112	45	42	26	2.0
40	16	42	**724 605 509**	0.188	57	53	26	2.0
50	16	48	**724 605 510**	0.222	63	59	28	2.0
63	16	60	**724 605 511**	0.361	78	74	32	2.6

Union end malleable iron galvanized Rp

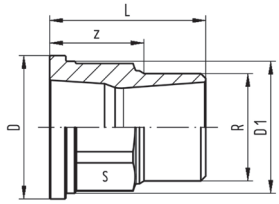


Model:

- Union End: malleable iron with parallel female thread Rp

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)	s (mm)	z (mm)	D1 (mm)
20	Rp	½	16	**724 600 206**	1	0.037	30	22	25	9	27
25	Rp	¾	16	**724 600 207**	0	0.072	39	22	31	7	36
32	Rp	1	16	**724 600 208**	120	0.088	44	26	38	9	41
40	Rp	1 ¼	16	**724 600 209**	0	0.172	56	31	48	12	52
50	Rp	1 ½	16	**724 600 210**	10	0.210	62	33	54	14	58
63	Rp	2	16	**724 600 211**	0	0.324	78	35	67	11	73
75	Rp	2 ½	16	**724 600 212**	35	0.557	100	39	85	12	92
90	Rp	3	16	**724 600 213**	0	0.650	110	45	96	15	104

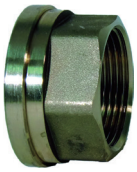
Union end malleable iron galvanized R

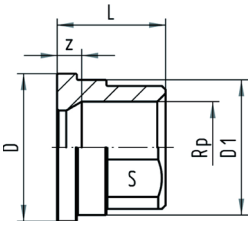


Model:

- Union End: Malleable iron with taper male thread R

d (mm)	Thread Type	Size (inch)	Code	SP	Weight (kg)	D (mm)	L (mm)	D1 (mm)	z (mm)	s (mm)
20	R	½	**724 600 806**	1	0.069	30	40	27	25	23
25	R	¾	**724 600 807**	1	0.115	39	43	36	27	30
32	R	1	**724 600 808**	0	0.161	44	48	41	29	36
40	R	1 ¼	**724 600 809**	0	0.294	56	57	52	36	48
50	R	1 ½	**724 600 810**	0	0.353	62	59	58	37	54
63	R	2	**724 600 811**	1	0.570	78	62	73	36	66
75	R	2 ½	**724 600 812**	0	0.980	97	75	92	45	85
90	R	3	**724 600 813**	0	1.217	110	80	104	47	95



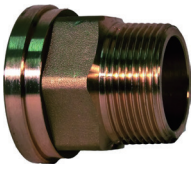


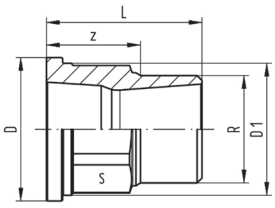
Union end brass Rp

Model:

- Union End: Brass with parallel female thread Rp

d (mm)	Thread Type	Size (inch)	Code	SP	Weight (kg)	L (mm)	s (mm)	D (mm)	D1 (mm)	z (mm)
20	Rp	½	**720 600 236**	1	0.059	22	25	30	28	5
25	Rp	¾	**720 600 237**	1	0.100	25	30	39	36	6
32	Rp	1	**720 600 238**	1	0.128	27	36	45	42	6
40	Rp	1 ¼	**720 600 239**	1	0.211	31	46	56	53	7
50	Rp	1 ½	**720 600 240**	1	0.324	35	55	62	59	7
63	Rp	2	**720 600 241**	1	0.510	40	65	78	74	8
75	Rp	2 ½	**720 600 242**	1	0.893	47	85	100	92	10
90	Rp	3	**720 600 243**	1	1.395	52	95	121	110	11



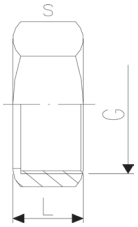


Union end brass R

Model:

- Union End: Brass with taper male thread R

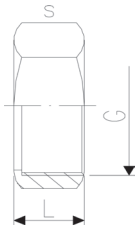
d (mm)	Thread Type	Size (inch)	Code	SP	Weight (kg)	z (mm)	D1 (mm)	D (mm)	s (mm)	L (mm)
20	R	½	**720 600 246**	1	0.092	22	28	30	25	37
25	R	¾	**720 600 247**	1	0.151	25	36	39	30	42
25	R	½	**720 600 257**	1	0.142	27	36	39	30	42
32	R	1	**720 600 248**	1	0.216	28	42	45	36	46
32	R	½	**720 600 258**	1	0.113	31	42	45	36	46
32	R	¾	**720 600 268**	1	0.206	30	42	45	36	46
40	R	1 ¼	**720 600 249**	1	0.408	32	53	56	46	52
50	R	1 ½	**720 600 250**	1	0.538	36	59	62	55	56
63	R	2	**720 600 251**	1	0.859	42	74	78	65	67
75	R	2 ½	**720 600 252**	1	1.446	49	92	100	85	77
90	R	3	**720 600 253**	1	2.063	54	110	121	95	86



Union nut stainless steel 1.4404 (316L)

* Octagon union nut

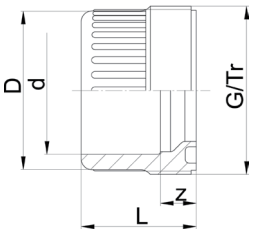
	d (mm)	PN (bar)	Code	SP	Weight (kg)	G (inch)	closest inch (inch)	L (mm)	s (mm)
	16	16	**724 690 105**	10	0.060	¾	⅜	19	32
	20	16	**724 690 106**	10	0.105	1	½	21	41
	25	16	**724 690 107**	10	0.091	1 ¼	¾	23	46
	32	16	**724 690 108**	10	0.170	1 ½	1	24	55
*	40	16	**724 690 109**	10	0.218	2	1 ¼	27	68
*	50	16	**724 690 110**	10	0.316	2 ¼	1 ½	31	74
*	63	16	**724 690 111**	10	0.364	2 ¾	2	35	88



Union nut, brass

- d12 - d20 for tap connector No. 21 55 03

PN (bar)	d (mm)	G (inch)	Code	SP	Weight (kg)	L (mm)	s (mm)
16	16	½	**720 690 405**	1	0.024	16	24
16	16	¾	**720 690 005**	1	0.040	17	30
16	20	1	**720 690 006**	250	0.065	19	38
16	25	1 ¼	**720 690 007**	1	0.105	20	47
16	32	1 ½	**720 690 008**	1	0.102	22	52
16	40	2	**720 690 009**	1	0.199	25	66
16	50	2 ¼	**720 690 010**	1	0.268	25	72
16	63	2 ¾	**720 690 011**	1	0.280	27	87
16	75	3 ½	**720 690 012**	1	0.675	34	110

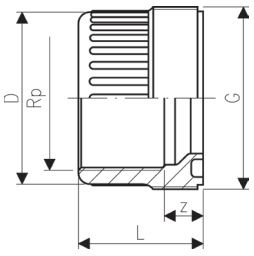


Union bush PVC-U metric

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)	Size (inch)	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	2 ½	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

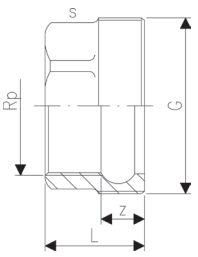


Union bush PVC-U Rp

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 thread only
- Do not use thread sealing pastes that are harmful to PVC-U

Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)	G (inch)	z (mm)	D (mm)	L (mm)
Rp	¼	10	**721 840 604**	10	0.007	⅝	12	20	22
Rp	⅜	10	**721 840 605**	10	0.009	¾	13	24	24
Rp	½	10	**721 840 606**	10	0.013	1	13	29	26
Rp	¾	10	**721 840 607**	10	0.026	1 ¼	14	34	29
Rp	1	10	**721 840 608**	10	0.036	1 ½	15	42	32
Rp	1 ¼	10	**721 840 609**	10	0.063	2	19	53	38
Rp	1 ½	10	**721 840 610**	10	0.098	2 ¼	26	63	45
Rp	2	10	**721 840 611**	10	0.187	2 ¾	33	78	56

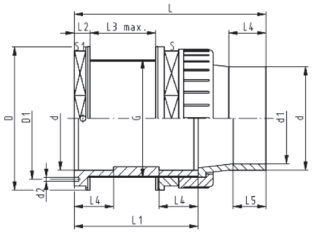


Union bush malleable iron galvanized Rp

Model:

- Parallel female thread Rp

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)	G (inch)	z (mm)	s (mm)	L (mm)
20	Rp	½	16	**724 630 606**	1	0.058	1	12	25	25
25	Rp	¾	16	**724 630 607**	1	0.100	1 ¼	13	31	28
32	Rp	1	16	**724 630 608**	1	0.127	1 ½	14	28	31
40	Rp	1 ¼	16	**724 630 609**	1	0.204	2	14	47	33
50	Rp	1 ½	16	**724 630 610**	24	0.268	2 ¼	17	53	36
63	Rp	2	16	**724 630 611**	1	0.443	2 ¾	18	66	42
75	Rp	2 ½	16	**724 630 612**	1	0.679	3 ½	19	82	46
90	Rp	3	16	**724 630 613**	1	0.913	4	22	96	52



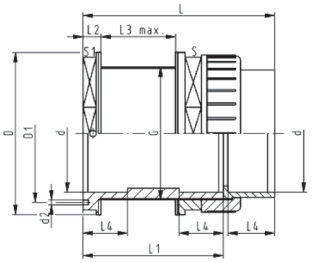
Tank adaptor for fix position stop
PVC-U, Union end with spigot / reducing socket metric

Model:

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

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



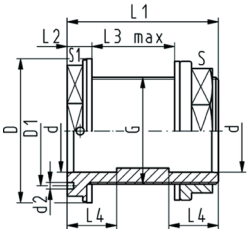
Tank adaptor for fix position stop
PVC-U with O-Ring gasket

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



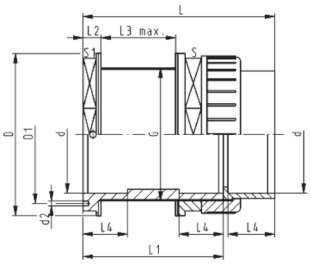
Tank adaptor for fix position stop
Compact PVC-U metric

Model:

- End connection: solvent cement socket, metric
- Gasket: flat gasket EPDM
- Washer: PP
- Run-out holes: Two holes in octagonal head
- FKM 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



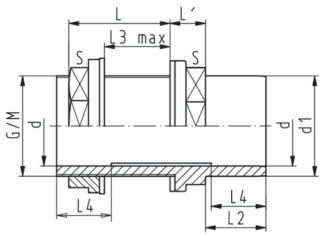
Tank adaptor for fix position stop
PVC-U, Union end with socket metric

Model:

- Gaskets: flat gaskets EPDM
- Washer: PP
- Run-out holes: Two holes in octagonal head
- FKM 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



Tank adaptor for adjustable stop
PVC-U metric

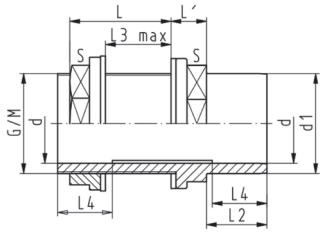
Model:

- Gasket: flat gasket EPDM
- Washer: PP
- Spare parts on request

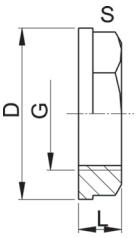
d (mm)	Size (inch)	d1 (mm)	Code	SP	Weight (kg)
20	¾	25	**161 050 206**	75	0.046
25	1	32	**161 050 207**	50	0.066
32	1 ¼	40	**161 050 208**	50	0.106
40	1 ¾	50	**161 050 209**	35	0.190
50	2	63	**161 050 210**	25	0.248
63	2 ½	75	**161 050 211**	15	0.352
75	3	90	**161 050 212**	20	0.539
90		110	**161 050 213**	10	1.083
110		125	**161 050 214**	6	1.350

d (mm)	L3 max (mm)	Diameter of bore in tank side (mm)	G (inch)	L1 (mm)	L2 (mm)	L (mm)	L4 (mm)	s (mm)	M
20	23	28	¾	13	19	42	16	32	
25	23	35	1	15	22	45	19	40	
32	24	43	1 ¼	17	26	49	22	50	
40	21	55	1 ¾	19	31	48	26	60	
50	21	61	2	21	38	52	31	69	

table continued on the next page



d (mm)	L3 max (mm)	Diameter of bore in tank side (mm)	G (inch)	L1 (mm)	L2 (mm)	L (mm)	L4 (mm)	s (mm)	M
63	23	77	2 ½	23	44	53	38	85	
75	20	89	3	26	51	56	44	100	
90	20	115		32	61	62	51	125	M113
110	22	135		36	69	66	61	147	M133



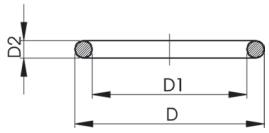
Backing nut PVC-U tank adaptor

Model:

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

Thread Type	Size (inch)	M	Code	SP	Weight (kg)	D (mm)	L (mm)	s (mm)
G	¾		**161 490 630**	400	0.007	39	13	32
G	1		**161 490 632**	200	0.012	48	15	40
G	1 ¼		**161 490 634**	100	0.019	58	17	50
G	1 ½		**161 490 635**	100	0.027	65	18	56
G	1 ¾		**161 490 636**	75	0.036	72	19	64
G	2		**161 490 637**	50	0.043	79	21	69
G	2 ¼		**161 490 638**	50	0.053	86	21	76
G	2 ½		**161 490 639**	25	0.063	94	23	85
G	2 ¾		**161 490 640**	25	0.092	106	25	95
G	3		**161 490 641**	20	0.101	112	26	100
G	4		**161 490 644**	10	0.164	139	32	126

Seals



O-Ring gasket

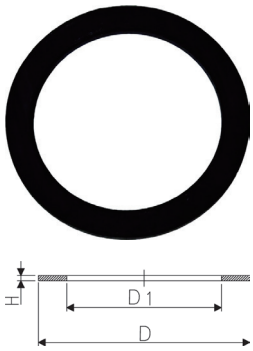
Model:

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

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

	d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
	10 - 12	8	**748 410 004**	0.002	**749 410 004**	0.020
	16	10	**748 410 005**	0.002	**749 410 005**	0.002
	20	15	**748 410 006**	0.002	**749 410 006**	0.002
	25	20	**748 410 007**	0.002	**749 410 007**	0.002
	32	25	**748 410 008**	0.003	**749 410 008**	0.002
	40	32	**748 410 009**	0.003	**749 410 009**	0.007
	50	40	**748 410 010**	0.004	**749 410 010**	0.060
	63	50	**748 410 011**	0.005	**749 410 011**	0.003
*	90	80	**748 410 248**	0.002	**749 410 248**	0.020

	d (mm)	D (mm)	D1 (mm)	D2 (mm)	closest inch (inch)
	10 -	17.62	12.37	2.62	¼
	16	20.78	15.54	2.62	⅜
	20	27.28	20.22	3.53	½
	25	35.23	28.17	3.53	¾
	32	39.99	32.93	3.53	1
	40	51.33	40.65	5.34	1 ¼
	50	57.68	46.99	5.34	1 ½
	63	70.37	59.69	5.34	2
*	90	105.30	94.62	5.34	3

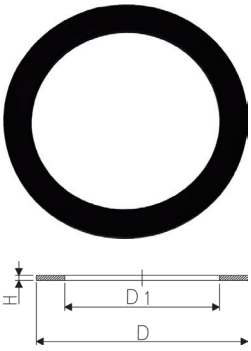


Flat gasket

Model:

- Hardness approx. 65° Shore
- For adaptor unions

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



Flat gasket

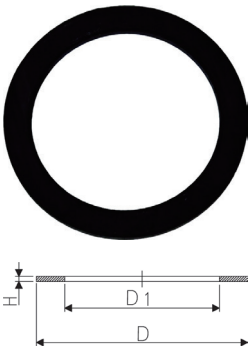
Model:

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

Attention:

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

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

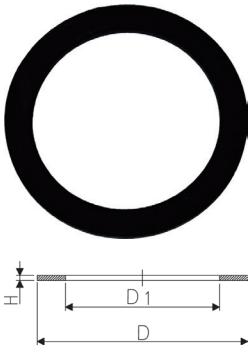


Flat Gasket inside the tank
For tank adaptor type 050

Model:

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

Size (inch)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)	D (mm)	D1 (mm)	H (mm)
1	**748 400 042**	1	0.003	**749 400 042**	1	0.003	46	34	3
1 ¼				**749 400 009**	1	0.003	55	42	3
1 ½	**748 400 043**	1	0.005	**749 400 043**	1	0.009	69	49	3
2				**749 400 011**	1	0.006	78	60	3
2 ¼	**748 400 044**	1	0.008	**749 400 044**	1	0.009	90	64	3
2 ¾	**748 400 045**	1	0.011	**749 400 045**	1	0.011	106	82	3

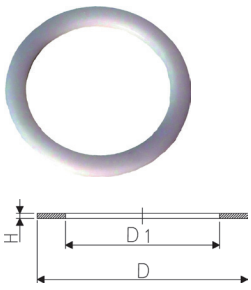


Flat Gasket union
For tank adaptor type 050

Model:

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

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



Washer PP for tank adaptor

Model:

- Spare part for tank adaptor type 050

d (inch)	Code	SP	Weight (kg)	H (mm)	D1 (mm)	D (mm)
3/4	**727 490 005**		0.002	3	27	39
1	**727 490 006**		0.002	3	34	47
1 1/4	**727 490 007**	50	0.300	3	43	58
1 3/4	**727 490 008**		0.024	4	55	72
2	**727 490 009**	50	0.470	4	61	79
2 1/4	**727 490 010**		0.007	4	67	86
2 1/2	**727 490 011**	25	0.560	4	77	95
3	**727 490 012**		0.013	5	90	112
M113	**727 490 013**		0.021	5	115	139
M133	**727 490 014**		0.025	5	135	160

PVC-U Valves

PVC-U Valves		Page
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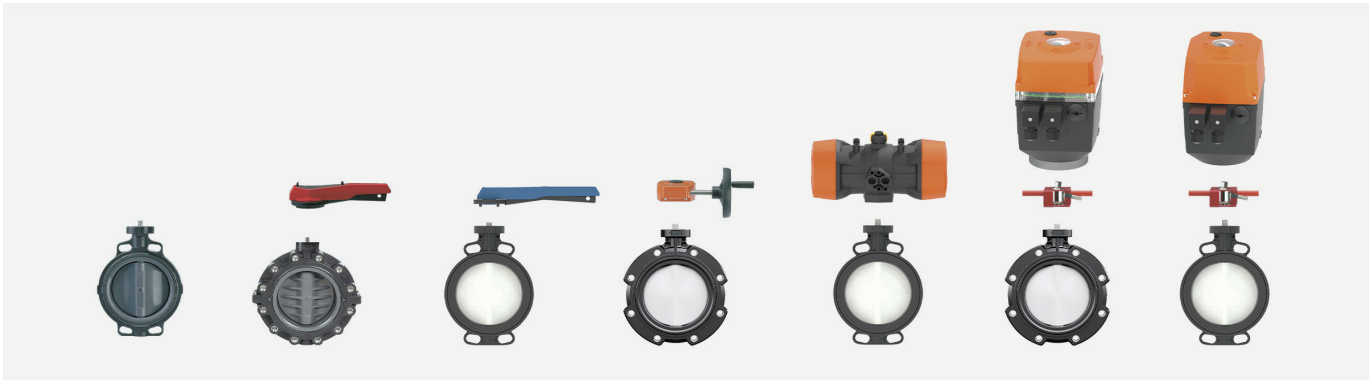
Actuators

GF Piping Systems presents a complete range of actuators which includes Pneumatic Actuators as well as Electric Actuators. Thanks to their modular design, the actuators can be configured specifically to your application (e.g. positioner, additional limits switches, fail-safe unit, AS-Interface connection, etc.). Housing material of choice is the robust and resistant PP-GF. All actuators feature an extremely long life time. Connections to third party valves are no problem due to the EN ISO 5211 interface.



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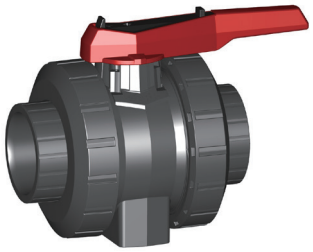
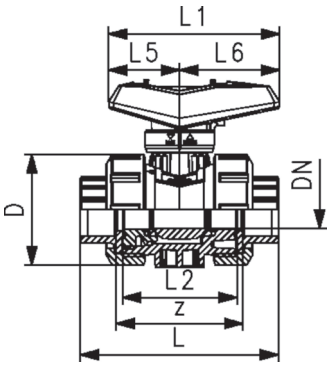
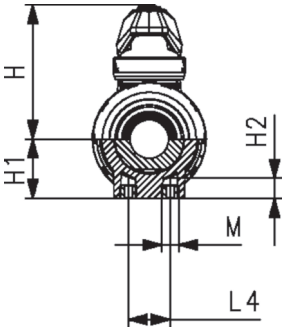
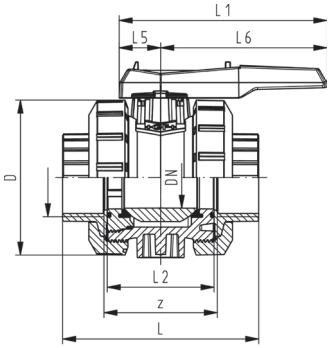
Ball Valves

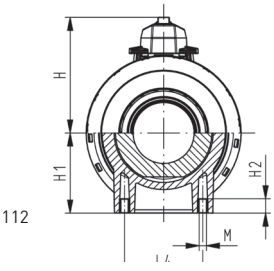
Type 546 Pro











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

Model:

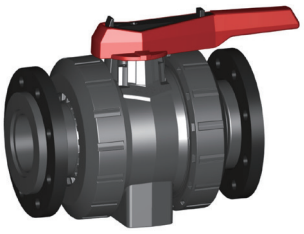
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Threaded valve ends are only enclosed and reduce Pressure Rating to PN10 for DN10/15-50
- Threaded valve ends are only enclosed for DN10/15-50
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

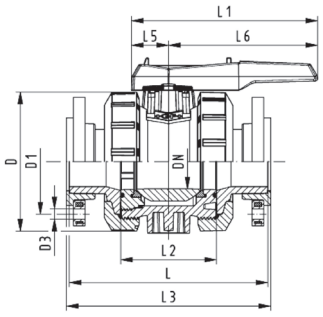
Option:

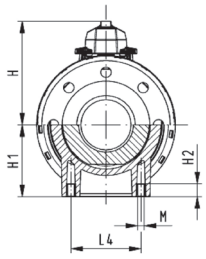
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from +GF+
- Individual configuration of the valve possible
- Multifunctional module with integrated limit switches (DN65-100)

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	16	71	**161 546 341**	1	0.157	**161 546 351**	1	0.184
20	15	½	16	185	**161 546 342**	1	0.233	**161 546 352**	1	0.200
25	20	¾	16	350	**161 546 343**	1	0.245	**161 546 353**	1	0.342
32	25	1	16	700	**161 546 344**	1	0.483	**161 546 354**	1	0.486
40	32	1 ¼	16	1000	**161 546 345**	1	0.796	**161 546 355**	1	0.740
50	40	1 ½	16	1600	**161 546 346**	1	1.089	**161 546 356**	1	0.850
63	50	2	16	3100	**161 546 347**	1	1.922	**161 546 357**	1	1.934
75	65	2 ½	16	5000	**161 546 348**	1	4.363	**161 546 358**	1	4.900
90	80	3	16	7000	**161 546 349**	1	5.376	**161 546 359**	1	7.400
110	100	4	16	11000	**161 546 350**	1	9.633	**161 546 360**	1	9.707

D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)
50	61	27	12	105	82	56	25	35	47	6	68
50	61	27	12	105	82	56	25	35	47	6	67
58	74	30	12	122	106	65	25	44	62	6	76
68	80	36	12	134	106	71	25	44	62	6	82
84	95	44	15	155	131	85	45	57	74	8	98
97	102	51	15	164	131	89	45	57	74	8	99
124	117	64	15	184	152	101	45	66	86	8	111
166	150	85	15	234	270	136	70	64	206	8	148
200	161	105	15	255	270	141	70	64	206	8	163
238	178	123	22	301	320	164	120	64	256	12	178







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

Model:

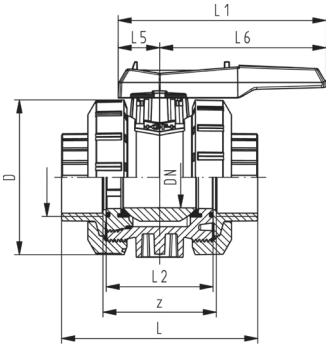
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)
- Overall length according to EN 558
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

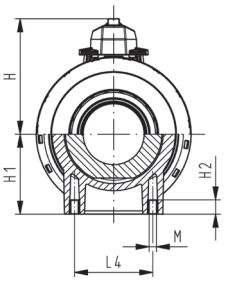
Option:

- Pneumatic or electric actuators from +GF+
- Individual configuration of the valve possible
- Multifunctional module with integrated limit switches (DN65-100)

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
75	65	2 ½	16	5000	**161 546 968**	1	9.200	**161 546 978**	1	9.200
90	80	3	16	7000	**161 546 969**	1	12.700	**161 546 979**	1	12.700
110	100	4	16	11000	**161 546 970**	1	19.000	**161 546 980**	1	19.000

D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M
185	140	19	150	85	15	269	136	290	70	64	206	8
200	152	19	161	105	15	269	141	310	70	64	206	8
229	190	19	178	123	22	319	164	350	120	64	256	12





Ball valve type 546 PVC-U (2½ inch - 4 inch)
With lockable handle
With solvent cement sockets Inch BS

Model:

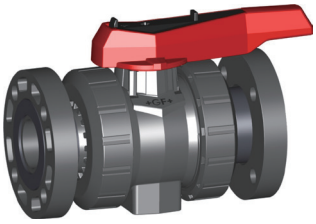
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Lockable hand lever with ratchet settings

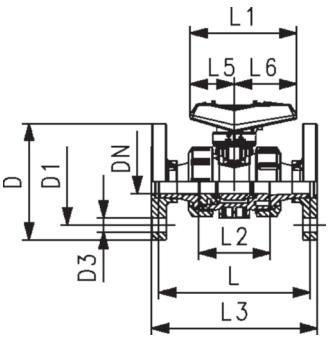
Option:

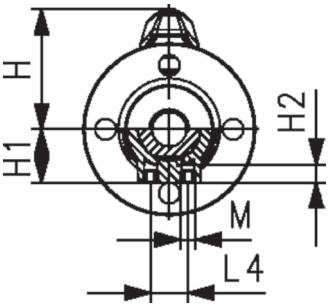
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

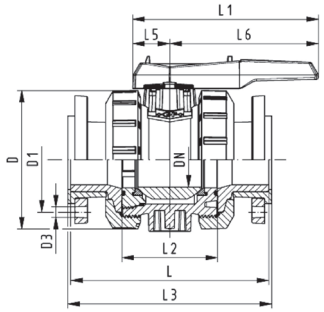
Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	FKM Code	SP	Weight (kg)
2 ½	65	16	5000	**161 546 088**	**161 546 098**	1	5.200
3	80	16	7000	**161 546 229**	**161 546 239**	1	7.700
4	100	16	11000	**161 546 230**	**161 546 240**	1	12.000

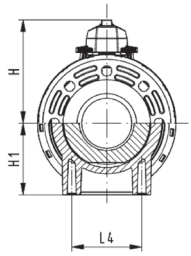
SP	Weight (kg)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)
1	5.200	166	224	85	15	233	270	136	70	64	206	M8	144
1	7.700	200	235	105	15	254	270	141	70	64	206	M8	151
1	12.000	238	245	123	22	301	320	164	120	64	256	M12	174











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

Model:

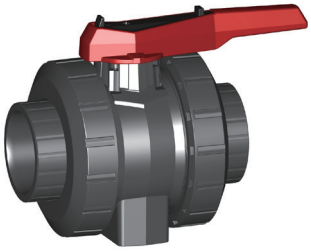
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)
- Overall length according to EN 558
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

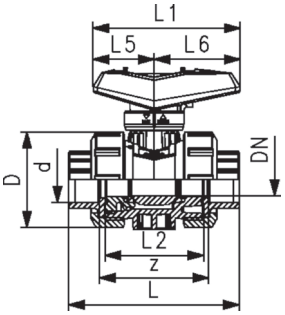
Option:

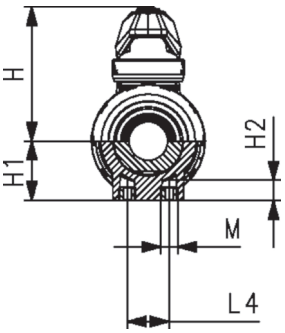
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from +GF+
- Individual configuration of the valve possible
- Multifunctional module with integrated limit switches (DN65-100)

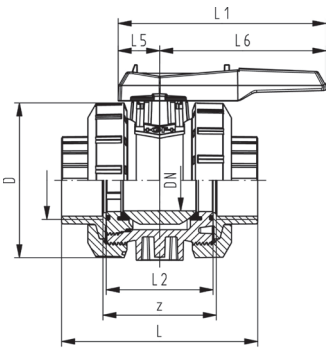
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
	15	½	10	185	**800 028 273**	0.340	**800 064 089**	0.400
	20	¾	10	350	**800 028 274**	0.470	**800 065 697**	0.500
	25	1	10	700	**800 056 529**	1.200	**800 063 545**	0.800
	32	1 ¼	10	1000	**800 065 696**	1.300	**800 065 702**	1.300
	40	1 ½	10	1600	**800 046 446**	2.300	**800 063 822**	1.500
	50	2	10	3100	**800 010 118**	2.540	**800 046 451**	3.600
75	65	2 ½	16	5000	**161 546 168**	7.300	**161 546 178**	7.300
90	80	3	16	7000	**161 546 169**	10.600	**161 546 179**	10.020
110	100	4	16	11000	**161 546 170**	16.400	**161 546 180**	16.400

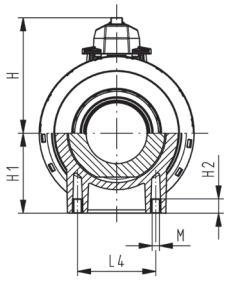
D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M
96	70	15	87	27	12	82	56	130	25	35	47	M6
101	75	15	104	30	12	105	65	150	25	44	62	M6
126	79	19	115	36	12	105	71	160	25	44	62	M6
135	100	19	139	44	12	131	85	180	45	57	74	M8
150	98	19	152	51	12	131	89	200	45	57	74	M8
156	120	19	181	64	12	152	101	230	45	66	86	M8
185	140	19	150	85	15	269	136	290	70	64	206	M8
200	152	19	161	105	15	269	141	310	70	64	206	M8
220	191	19	178	123	22	319	164	350	120	64	256	M12











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

Model:

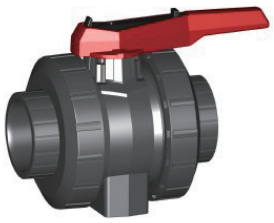
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

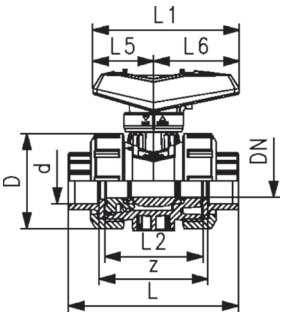
Option:

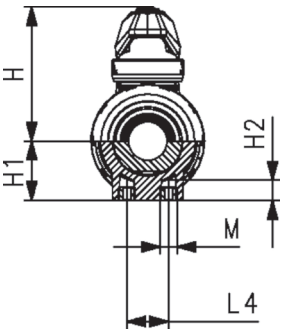
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from +GF+
- Individual configuration of the valve possible
- Multifunctional module with integrated limit switches (DN65-100)

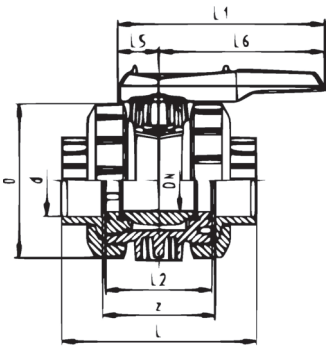
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	16	71	**161 546 241**	1	0.150	**161 546 251**	1	0.150
20	15	½	16	185	**161 546 242**	1	0.150	**161 546 252**	1	0.150
25	20	¾	16	350	**161 546 243**	1	0.230	**161 546 253**	1	0.230
32	25	1	16	700	**161 546 244**	1	0.335	**161 546 254**	1	0.330
40	32	1 ¼	16	1000	**161 546 245**	1	0.585	**161 546 255**	1	0.585
50	40	1 ½	16	1600	**161 546 246**	1	0.850	**161 546 256**	1	0.862
63	50	2	16	3100	**161 546 247**	1	1.567	**161 546 257**	1	1.582
90	80	3	16	7000	**161 546 249**	1	5.607	**161 546 259**	1	5.404
110	100	4	16	11000	**161 546 250**	1	8.531	**161 546 260**	1	8.581

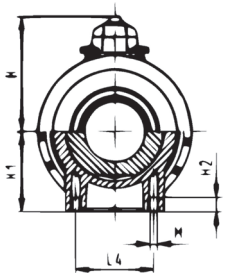
D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)
50	61	27	12	92	82	56	25	35	47	6	64
50	61	27	12	95	82	56	25	35	47	6	64
58	74	30	12	110	106	65	25	44	62	6	72
68	80	36	12	123	106	71	25	44	62	6	79
84	95	44	15	146	131	85	45	57	74	8	93
97	102	51	15	157	131	89	45	57	74	8	100
124	117	64	15	183	152	101	45	66	86	8	113
200	161	105	15	255	270	141	70	64	206	8	157
238	178	123	22	301	320	164	120	64	256	12	178











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

Model:

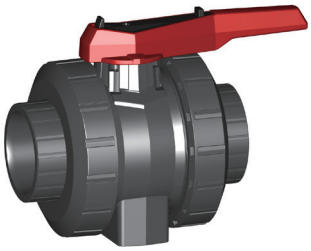
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible
- Multifunctional module with integrated limit switches (DN65-100)

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	16	71	**161 546 061**	1	0.153	**161 546 071**	1	0.156
20	15	½	16	185	**161 546 062**	1	0.156	**161 546 072**	1	0.158
25	20	¾	16	350	**161 546 063**	1	0.240	**161 546 073**	1	0.242
32	25	1	16	700	**161 546 064**	1	0.343	**161 546 074**	1	0.345
40	32	1 ¼	16	1000	**161 546 065**	1	0.610	**161 546 075**	1	0.615
50	40	1 ½	16	1600	**161 546 066**	1	0.838	**161 546 076**	1	0.844
63	50	2	16	3100	**161 546 067**	1	1.537	**161 546 077**	1	1.552
75	65	2 ½	16	5000	**161 546 068**	1	4.343	**161 546 078**	1	3.563
90	80	3	16	7000	**161 546 069**	1	6.184	**161 546 079**	1	5.376
110	100	4	16	11000	**161 546 070**	1	8.642	**161 546 080**	1	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)
16	50	61	27	12	92	82	56	25	35	47	M6	64
20	50	61	27	12	95	82	56	25	35	47	M6	64
25	58	74	30	12	110	106	65	25	44	62	M6	72
32	68	80	36	12	123	106	71	25	44	62	M6	79
40	84	95	44	15	146	131	85	45	57	74	M8	94
50	97	102	51	15	157	131	89	45	57	74	M8	95
63	124	117	64	15	183	152	101	45	66	86	M8	107
75	166	150	85	15	233	270	136	70	64	206	M8	144
90	200	161	105	15	255	270	141	70	64	206	M8	151
110	238	178	123	22	301	320	164	120	64	256	M12	174



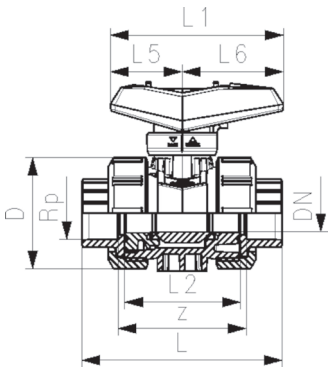
Ball valve type 546 Pro PVC-U
With threaded sockets Rp

Model:

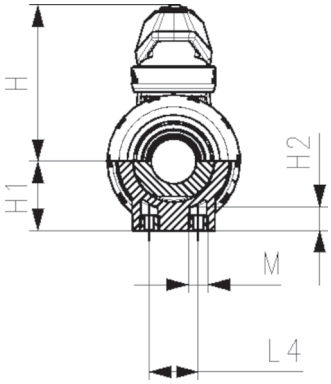
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

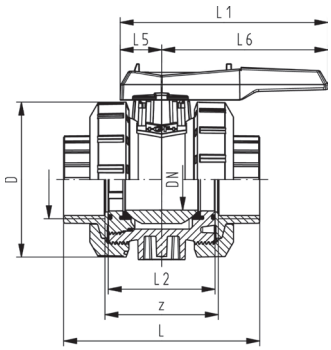
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from +GF+
- Individual configuration of the valve possible
- Multifunctional module with integrated limit switches (DN65-100)

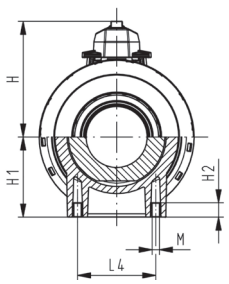


d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	Rp	⅜	10	71	**161 546 741**	1	0.152
20	15	Rp	½	10	185	**161 546 742**	1	0.159
25	20	Rp	¾	10	350	**161 546 743**	1	0.242
32	25	Rp	1	10	700	**161 546 744**	1	0.352
40	32	Rp	1 ¼	10	1000	**161 546 745**	1	0.605
50	40	Rp	1 ½	10	1600	**161 546 746**	1	0.805
63	50	Rp	2	10	3100	**161 546 747**	1	1.580
75	65	Rp	2 ½	10	5000	**161 546 748**	1	5.000
90	80	Rp	3	10	7000	**161 546 749**	1	6.300
110	100	Rp	4	10	11000	**161 546 750**	1	11.700



FKM Code	SP	Weight (kg)
161 546 751	1	0.152
161 546 752	1	0.152
161 546 753	1	0.232
161 546 754	1	0.332
161 546 755	1	0.605
161 546 756	1	0.805
161 546 757	1	1.465
161 546 758	1	5.000
161 546 759	1	7.500
161 546 760	1	11.700





D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)
50	61	27	12	95	82	56	25	35	47	M6	73
50	61	27	12	100	82	56	25	35	47	M6	71
58	74	30	12	114	106	65	25	44	62	M6	82
68	80	36	12	127	106	71	25	44	62	M6	89
84	95	44	15	146	131	85	45	57	74	M8	104
97	102	51	15	152	131	89	45	57	74	M8	110
124	117	64	15	176	152	101	45	66	86	M8	125
166	150	85	15	233	270	136	70	64	206	M8	176
200	161	105	15	254	270	141	70	64	206	M8	191
238	178	123	22	301	320	164	120	64	256	M12	211

Type 546 Pro PVC-U True Union Vented Ball Valve for Sodium Hypochlorite Use

- All Type 546 pro ball valves can be vented. Please contact us for further details.

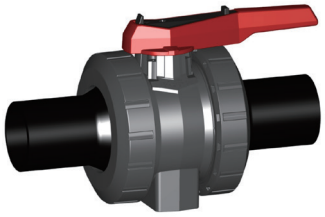
Range of use:

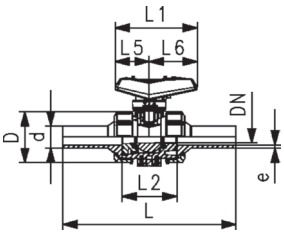
- The vented ball valve is designed for applications such as: chlorinated water, water where bleach (sodium hypochlorite solutions) is present, and other applications where liquids requiring out-gassing exist.

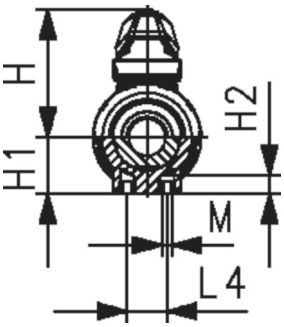
General functions:

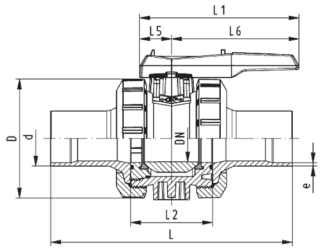
- The special vent on one side of the ball allows for pressure to be released back into the closed system. (Upstream) This helps prevent potentially dangerous pressure from building up inside the valve.

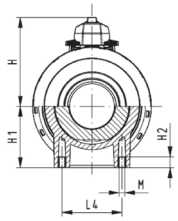
Size (inch)	DN (mm)	EPDM Code	FKM Code
⅜	10	**161546241V**	161546251V
½	15	**161546242V**	161546252V
¾	20	**161546243V**	161546253V
1	25	**161546244V**	161546254V
1 ¼	32	**161546245V**	161546255V
1 ½	40	**161546246V**	161546256V
2	50	**161546247V**	161546257V
3	80	**161546249V**	161546259V
4	100	**161546250V**	161546260V











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

Model:

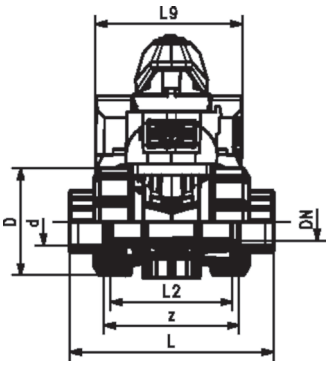
- Material: PVC-U/PE
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

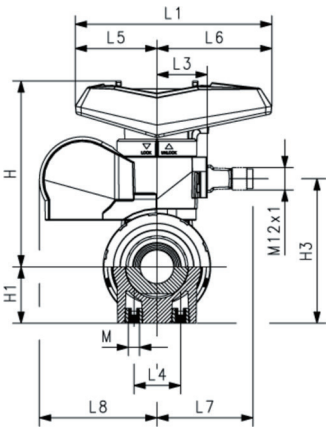
Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from +GF+
- Individual configuration of the valve possible
- Multifunctional module with integrated limit switches (DN65-100)

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	SDR	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	16	185	11	**161 546 822**	0.162	**161 546 832**	0.150
25	20	16	350		**161 546 823**	0.248	**161 546 833**	0.220
32	25	16	700	11	**161 546 824**	0.362	**161 546 834**	0.310
40	32	16	1000	11	**161 546 825**	0.550	**161 546 835**	0.550
50	40	16	1600	11	**161 546 826**	0.886	**161 546 836**	0.750
63	50	16	3100	11	**161 546 827**	1.630	**161 546 837**	1.360
75	65	16	5000	11	**161 546 828**	3.651	**161 546 838**	5.000
90	80	16	7000	11	**161 546 829**	6.840	**161 546 839**	7.500
110	100	16	11000	11	**161 546 830**	8.860	**161 546 840**	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)
20	50	61	27	12	193	82	56	25	35	47	M6	1.9
25	58	74	30	12	216	105	65	25	44	62	M6	2.3
32	68	80	36	12	223	105	71	25	44	62	M6	2.9
40	84	95	44	15	249	131	85	45	57	74	M8	3.7
50	97	102	51	15	271	131	89	45	57	74	M8	4.6
63	124	117	64	15	320	152	101	45	66	86	M8	5.8
75	166	150	85	15	387	269	136	70	64	206	M8	6.8
90	200	161	105	15	421	269	141	70	64	206	M8	8.2
110	238	178	123	22	484	319	164	120	64	256	M12	10.0





Ball valve type 546 Pro PVC-U
With manual spring return unit
With solvent cement sockets metric

Model:

- Manual spring return unit ("Dead-man lever") ensures that the valve closes after operation
- For safe sampling, dosing, cleaning or draining
- Retrofit possible with ball valve 546 (Pro)
- Integrated stainless steel mounting inserts
- For easy installation and removal
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)
- Includes transparent clip for valve labelling

Option:

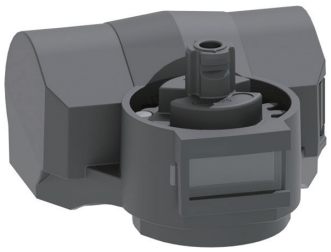
- Double sensor for position feedback
- Individual configuration of the valve possible

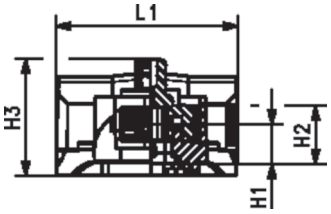
d (mm)	DN (mm)	PN (bar)	kv-value (dp=1bar)	EPDM Code	FKM Code
16	10	16	71	**161 546 818**	**161 546 940**
20	15	16	185	**161 546 819**	**161 546 941**
25	20	16	350	**161 546 820**	**161 546 942**
32	25	16	700	**161 546 821**	**161 546 943**

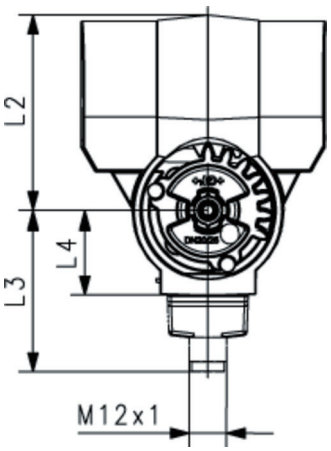
d (mm)	D (mm)	H (mm)	H1 (mm)	H3 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	M
16	50	61	27	64	92	82	56	22	25	35	47	46.0	42.5	74	M6
20	50	61	27	64	95	82	56	22	25	35	47	46.0	42.5	74	M6
25	58	74	30	78	110	106	65	27	25	44	62	51.5	63.0	79	M6
32	68	80	36	88	123	106	71	27	25	44	62	51.5	63.0	79	M6

d (mm)	z (mm)
16	68
20	67
25	76
32	82

Accessory for Ball valve type 546 Pro







Manual spring return unit for ball valves 546 Pro and 543 Pro
Retrofit kit

Model:

- Manual spring return unit ("Dead-man lever") ensures that the valve closes after operation
- For safe sampling, dosing, cleaning or draining
- Retrofit possible with ball valve 546 (Pro)
- Includes transparent clip for valve labelling

Option:

- Double sensor for position feedback

Note:

*optional accessory to use a bigger lever for higher operating torque

d (mm)	DN (mm)	Code
16 - 20	10 - 15	**198 546 082**
25 - 32	20 - 25	**198 546 083**

Adapter for bigger lever*	Bigger size lever*	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	H1 (mm)	H2 (mm)	H3 (mm)
198546088	167484549 (DN20)	74	42.5	46.0	22	11.0	20.0	42.5
198546089	167484551 (DN32)	79	63.0	51.5	27	17.5	25.5	50.5

Ball valve type 546 Pro PVC-U
With electrical position feedback

Model:

- Material: PVC-U
- Double sensor (red=open/ green= close) enables electric position feedback, incl LED
- For additional information on double sensor, please see datasheet for 198546001
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Note:

Accessories sold separately

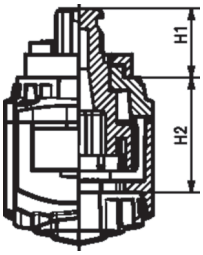
Code

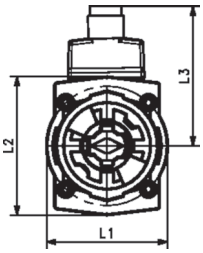
Manual Interface module
For Ball Valve Type 543 Pro & 546 Pro

Model:

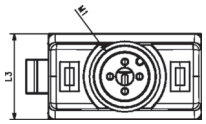
- Accessory for manual ball valve type 546 Pro
- Possibility of electrical feedback, incl. LED in combination with double sensor (accessory DN10-50)
- Inclusive labelling clip

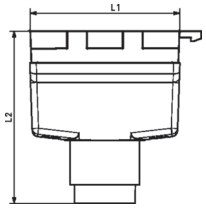
Ball Valve 543 Pro requires an additional spacer ring (DN10-15: 198543000, DN20-25: 198543001, DN32-40: 198543002, DN50: 198543003)

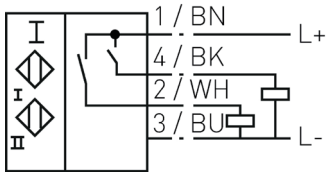


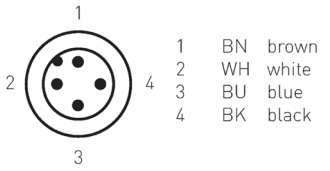


DN (mm)	Manual Code	SP	Weight (kg)	H1 (mm)	H2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)
10 - 15	**198 546 102**	1	0.042	15	32	37	44	46
20 - 25	**198 546 103**	1	0.052	20	32	41	47	48
32 - 40	**198 546 105**	1	0.097	23	33	53	60	54
50	**198 546 107**	1	0.111	26	36	56	62	55









Double sensor for electrical position feedback
For double sensor (Ball valve 546 Pro, 543 Pro and Butterfly Valve 565/567/578)

Model:

- Accessory for Ball Valve type 546 Pro, 543 Pro and Butterfly Valve 565/567/578
- Enables electrical position feedback, incl. LED, in combination with GF interface module
- IP67 rating
- Female connector and cables available – see 198546150 – 154
- NAMUR version has ATEX and IECEx certification
- Dimensions: Ball Valves 546 Pro and 543 Pro DN10-100, Butterfly Valve 565 DN50-300, Butterfly Valve 567/578 DN50-200 and DN350-600

Specifications:

• Housing material: PBTGF20
• Switching function: 2x normally open (NO)
• Output type: PNP or NPN
• Output polarity: DC
• Output type: 3-wire
• Operating voltage (U_B): 10... 30V DC
• Reverse polarity protection: all connections
• Voltage drop (U_d): ≤3V
• Operating current (L_L): 0... 150mA
• Off-state current (L_r): 0... 0.5mA typ. 0.1 µA at 25°C
• No-load supply current (L_0): ≤25mA
• Ambient temperature: -25...70°C (-13...158°F)
• Connection (system side): 4-pin, M12 x 1 connector
• Standards: EN 60947-5-2:2007, EN 60947-5-2/A1:2012 IEC 60947-5-2:2007, IEC 60947-5-2 AMD 1:2012
• $MTTF_d$ 948 a

Note:

*NAMUR sensor does not work with 565
For manually operated valves an additional switching ring (article number 199565900-199565003) is required. For electric or pneumatic operated valves, the switching ring is already pre-assembled.

LED Signal Colour	PNP Code	SP	Weight (kg)	NPN Code	*Namur (Atex) Code	L1 (mm)	L2 (mm)	L3 (mm)	M1
Closed: green / open: red	**198 546 001**	1	0.050	**198 546 005**	**198 546 003**	26	30	15	M12
Closed: red / open: green	**198 546 002**	1	0.050	**198 546 006**	**198 546 004**	26	30	15	M12

Technical data	PNP/NPN	NAMUR
Technology	Inductive	
Output circiut	PNP, NPN 2x normally open (NO)	NAMUR 2x normally closed (NC)
Hysteresis	Typically 5%	Typically 10%
Switching frequency	<500 Hz	<1000 Hz
Output indicator Art. Nr. 198546001 PNP Art. Nr. 198546002 PNP Art. Nr. 198546005 NPN Art. Nr. 198546006 NPN Art. Nr. 198546003 NAMUR Art. Nr. 198546004 NAMUR	**Output 1 / 2** LED red / green LED green / red LED red / green LED green / red	**Output 1 / 2** LED red / green LED green / red
Voltage supply range +Vs	10...30V DC	8.2 V
Operating current	0...150 mA	
Voltage drop (Ud)	≤3V	
Off-state current (Ir)	0... 0.5mA typ. 0.1 µA at 25°C	
No-load supply current (I0)	≤ 25 mA	≥ 3 mA
MTTFd	780 a	2122 a
Short circuit protection	Yes	
Reverse polarity protection	Yes	
Protection class	IP67	
Housing material	PBTGF20	
Operating temperature	-25...70 °C (-13...158°F)	
Connection	4-pin, M12x1	
NAMUR Version Approvals/Certificates	Safety Integrity Level: SIL 2 IECEx TUR 20.0002X (Ga, Gb, Mb) TÜV 19 ATEX 8467 X(Ga, Gb)	

Female connector
For double sensor (Ball valve 546 Pro and Butterfly Valve 565)

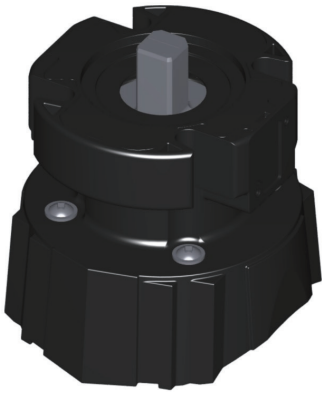
Model:

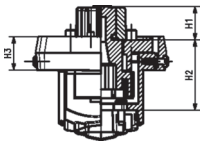
- Accessory for Ball Valve type 546 Pro and Butterfly Valve 565
- Connects double sensor to PLC
- Cable is flame-resistant
- Degree of protection IP67 / IP68 / IP69K

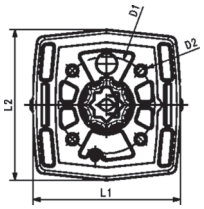
Note:

Degree of protection: EN60529:2000
Standards: IEC 61076-2-101:2008
Ambient temperature:
- Body: -40 ... 90 °C (-40 ... 194 °F)
- cable, fixed: -25 ... 70 °C (-13 ... 158 °F)
- cable, flexing: -5 ... 70 °C (23 ... 158 °F)
Pollution degree: 3

DN (mm)	Code	Model
10-50	**198 546 150**	Connector without cable
10-50	**198 546 151**	Connector with cable (5m PVC)
10-50	**198 546 152**	Connector with cable (10m PVC)
10-50	**198 546 153**	Connector with cable (5m PUR)
10-50	**198 546 154**	Connector with cable (10m PUR)







Interface module for GF actuators
For Ball Valve Type 546 Pro and 543 Pro

Model:

- Accessory for ball valve type 546 Pro
- Interface module acts as interface for GF actuators
- Possibility of electrical feedback, incl. LED in combination with double sensor (accessory DN10-50)
- Inclusive labelling clip

PPA DN65-100 requires an interface module as well as adaption kit (see below) to assemble the PPA onto the ball valve
*DN32-DN50 can also be used for PA11 and PA21
Ball Valve 543 Pro requires an additional spacer ring (DN10-15: 198543000, DN20-25: 198543001, DN32-40: 198543002, DN50: 198543003)

	DN (mm)	PPA04-80 Code	SP	Weight (kg)	PA11, PA21 Code	SP	Weight (kg)
	10 - 15	**198 546 162**	1	0.130	**198 546 132**	1	0.130
	20	**198 546 163**	1	0.105	**198 546 133**	1	0.105
	25	**198 546 164**	1	0.105	**198 546 134**	1	0.105
*	32	**198 546 135**	1	0.001			
*	40	**198 546 136**	1	0.001			
*	50	**198 546 137**	1	0.001			
	65 - 80	**167 482 684**	1	0.379			
	100	**167 482 685**	1	0.607			

	DN (mm)	EA15, EA25 Code	SP	Weight (kg)
	10 - 15	**198 546 142**	1	0.100
	20	**198 546 143**	1	0.100
	25	**198 546 144**	1	0.105
*	32	**198 546 145**	1	0.140
*	40	**198 546 146**	1	0.140
*	50	**198 546 147**	1	0.140
	65 - 80			
	100			

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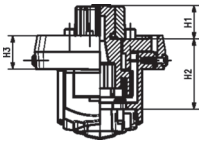
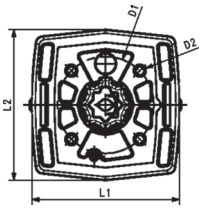


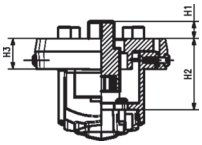


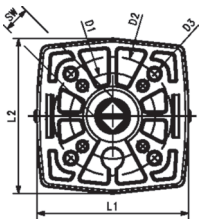
	DN (mm)	Adaption kit Code PPA (FC/FO)	Adaption kit code PPA (DA)	H1 (mm)	H2 (mm)	H3 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	D3 (mm)	D4 (mm)
	10 - 15			16	35	17	65	65	42		M5
	20			16	35	17	65	65	42		M5
	25			16	35	17	65	65	42		M5
*	32			18	33	15	72	79	50	M6	
*	40			18	33	15	72	79	50	M6	
*	50			18	36	15	72	79	50	M6	
	65 - 80	198546138	198546139	85			270				
	100	198546140	198546140	123			320				

Interface module for ISO5211 actuators
For Ball Valve Type 543 Pro & 546 Pro

Model:

- Accessory for ball valve type 546 Pro
- For ball valve norm interfaces according to EN ISO 5211
- Inclusive labelling clip
- No electrical position feedback posible with inductive sensor





	DN (mm)	Norm Code	SP	Weight (kg)
DN 10-15 SW09, F03/F05		**198 546 122**	1	0.111
DN 10-15 SW11/14, F03/F05		**198 546 123**	1	0.111
DN 20-25 SW09, F03/F05		**198 546 124**	1	0.120
DN 20-25 SW11/14, F03/F05		**198 546 125**	1	0.120
DN 32-40 SW11/14, F05		**198 546 126**	1	0.130
DN 50 SW11/14, F05		**198 546 127**	1	0.130

H1 (mm)	H2 (mm)	H3 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	D4 (mm)
9	35	15	65	65	36	50	M6	M5
11	35	15	65	65	36	50	M6	M5
9	35	15	65	65	36	50	M6	M5
11	35	15	65	65		50	M6	
11	33	13	72	79		50	M6	
11	36	13	72	79		50	M6	

Lever 546 Pro

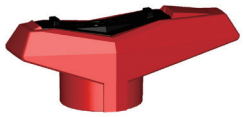
Model:

- Accessory for ball valve type 546 Pro
- Lockable as a standard (DN10-50)

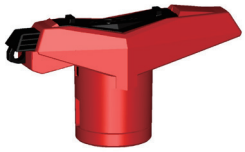
Note:

Only works with Ball valve type 546 Pro

DN (mm)	Lever 546 Pro Code	SP	Weight (kg)
10-15	**198 546 400**	1	0.100
20	**198 546 401**	1	0.100
25	**198 546 402**	1	0.100
32	**198 546 403**	1	0.100
40	**198 546 404**	1	0.100
50	**198 546 405**	1	0.100



DN10/15 - 50



DN10/15 - 50

Lever

d (mm)	DN (mm)	Size (inch)	Standard lever red Code	SP	Weight (kg)	Standard lever black Code	SP	Weight (kg)
16	10	⅜	**167 484 088**		0.012	**167 484 076**		0.012
20	15	½	**167 484 088**		0.012	**167 484 076**		0.012
25	20	¾	**167 484 089**		0.022	**167 484 077**		0.022
32	25	1	**167 484 090**		0.022	**167 484 078**		0.022
40	32	1 ¼	**167 484 091**		0.042	**167 484 079**		0.042
50	40	1 ½	**167 484 092**		0.042	**167 484 080**		0.042
63	50	2	**167 484 093**		0.064	**167 484 081**		0.059
75	65	2 ½	**167 484 094**		0.250	**167 484 082**	1	0.250
90	80	3	**167 484 095**	1	0.250	**167 484 083**		0.250
110	100	4	**167 484 096**	1	0.298	**167 484 084**		0.298

d (mm)	Multifunctional lever Code	SP	Weight (kg)
16	**167 484 100**	1	0.026
20	**167 484 100**	1	0.026
25	**167 484 101**	1	0.045
32	**167 484 102**	1	0.047
40	**167 484 103**	1	0.091
50	**167 484 104**	1	0.080
63	**167 484 105**	1	0.124
75	**161 486 689**	1	0.468
90	**161 486 690**	1	0.467
110	**161 486 691**	1	0.543

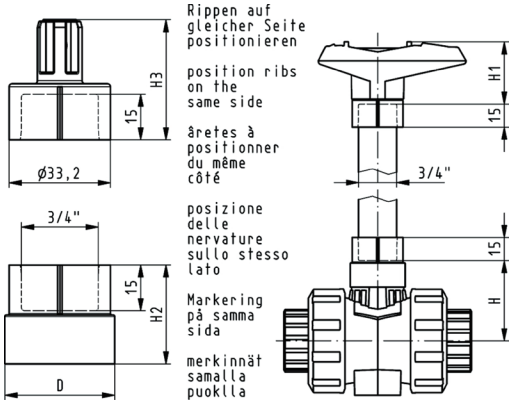
Handle extension 546 PVC-U inch BS/ASTM

Model:

- For Ball Valve Type 546

Includes upper and lower extension adapter, does not include 3/4" pipe

DN-DN (mm)	Inch (inch)	Code	Weight (kg)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	D (mm)
10 - 15	3/8-1/2	**161 486 443**	0.032	41	52	29	36	26
20 - 25	3/4-1	**161 486 444**	0.030	50	62	32	39	36
32 - 40	1 1/4-1 1/2	**161 486 445**	0.047	65	76	34	44	40
50	2	**161 486 446**	0.058	84	87	37	48	44

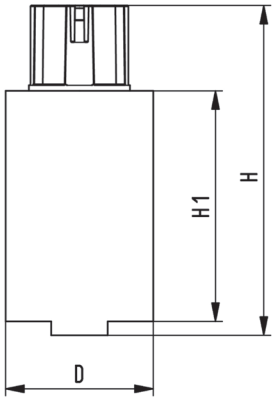


Handle extension for ball valve type 546 PVC-U DN65 - DN100

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



Ball Valve Type 546 Linear

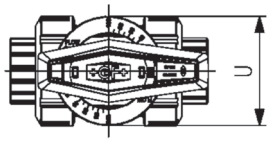
Linear ball valve type 546 Pro PVC-U
With solvent cement sockets metric

Model:

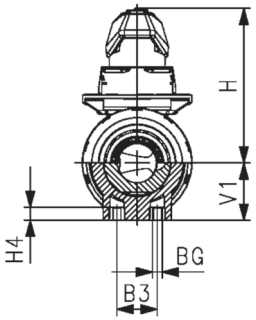
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seals PTFE
- Angle of operation 90° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts compatible to Types 546 Linear/ 546 (Pro) and 542

Option:

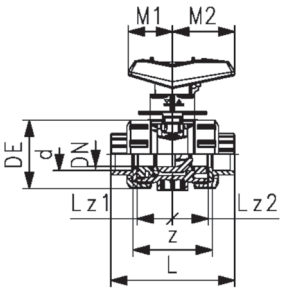
- Individual configuration of the valve (see diagram)
- Pneumatic or electric actuators from +GF+
- Other materials on demand



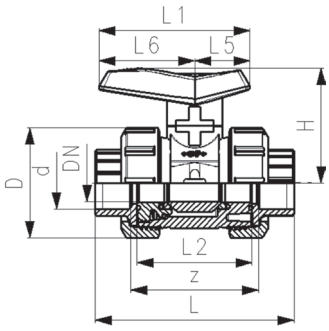
d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code
20	½	15	10	90	**161 546 951**	1	0.156	**161 546 961**
25	¾	20	10	166	**161 546 952**	1	0.240	**161 546 962**
32	1	25	10	235	**161 546 953**	1	0.343	**161 546 963**
40	1 ¼	32	10	417	**161 546 954**	1	0.610	**161 546 964**
50	1 ½	40	10	626	**161 546 955**	1	0.838	**161 546 965**
63	2	50	10	781	**161 546 956**	1	1.537	**161 546 966**



d (mm)	M1 (mm)	M2 (mm)	Lz1 (mm)	Lz2 (mm)	L (mm)	V1 (mm)	H (mm)	Hmax (mm)	DE (mm)	BG	B3 (mm)	H4 (mm)	U (mm)	z (mm)
20	35	47	28.0	28.0	95	27	72	99	50	M6	25	12	59	64
25	44	62	32.5	32.5	110	30	91	121	58	M6	25	12	68	72
32	44	62	35.5	35.5	123	36	96	132	68	M6	25	12	68	79
40	57	74	42.5	42.5	146	44	116	160	84	M8	45	15	81	94
50	57	74	44.5	44.5	157	51	122	173	97	M8	45	15	81	95
63	66	86	50.5	50.5	183	64	141	205	124	M8	45	15	91	107



Ball Valve Type 542



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

Model:

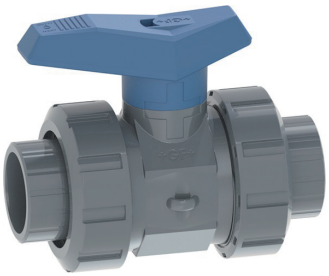
- For easy installation and removal
- Ball seat PTFE/ red lever

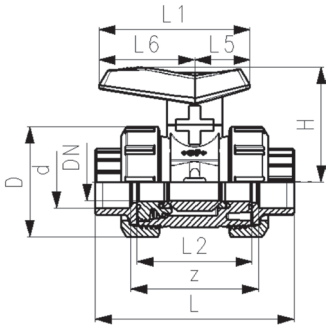
Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	16	71	**161 542 201**	1	0.151	**161 542 211**	1	0.151
20	15	½	16	185	**161 542 202**	1	0.149	**161 542 212**	1	0.149
25	20	¾	16	350	**161 542 203**	1	0.229	**161 542 213**	1	0.229
32	25	1	16	700	**161 542 204**	1	0.334	**161 542 214**	1	0.334
40	32	1 ¼	16	1000	**161 542 205**	1	0.588	**161 542 215**	1	0.588
50	40	1 ½	16	1600	**161 542 206**	1	0.843	**161 542 216**	1	0.843
63	50	2	16	3100	**161 542 207**	1	1.564	**161 542 217**	1	1.564

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
16	50	54	92	72	56	26	46	60
20	50	54	95	72	56	26	46	60
25	58	66	111	93	65	34	59	69
32	68	71	124	93	71	34	59	76
40	84	85	147	110	85	41	69	89
50	97	92	157	110	89	41	69	96
63	124	108	184	128	101	49	79	110





Ball valve type 542 PVC-U
With cemented socket (BS)
With PE ball seal

Model:

- For easy installation and removal
- Ball seat PE/ blue lever
- For water application

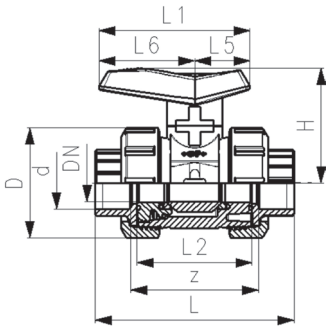
Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible

DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	GP	Weight (kg)
10	⅜	16	71	**161 541 201**	12	0.151
15	½	16	185	**161 541 202**	12	0.149
20	¾	16	350	**161 541 203**	6	0.229
25	1	16	700	**161 541 204**	6	0.334
32	1 ¼	16	1000	**161 541 205**	6	0.588
40	1 ½	16	1600	**161 541 206**	6	0.843
50	2	16	3100	**161 541 207**	4	1.564

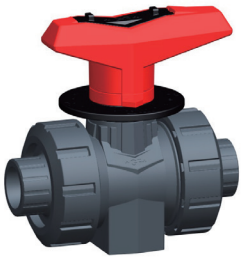
D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
50	54	92	72	56	26	46	60
50	54	95	72	56	26	46	60
58	66	111	93	65	34	59	69

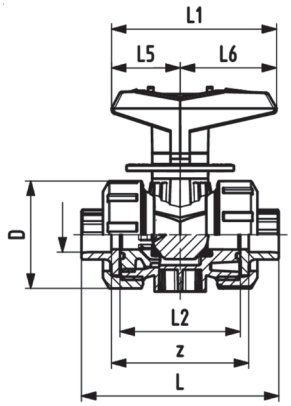
table continued on the next page



D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
68	71	124	93	71	34	59	76
84	85	147	110	85	41	69	89
97	92	157	110	89	41	69	96
124	108	184	128	101	49	79	110

Metering ball valves type 523





Metering ball valve type 523 PVC-U
With mounting inserts
With solvent cement sockets Inch BS

Model:

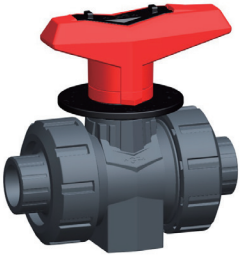
- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seals PTFE
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts **not compatible** to Type 323

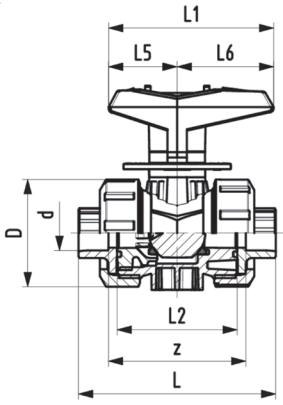
Option:

- Other materials on demand

Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
⅜	10	10	11	**161 523 501**	1	0.170	**161 523 511**	1	0.170
½	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)
⅜	50	68	27	92	77	56	25	32	45	60
½	50	68	27	95	77	56	25	32	45	60





Metering ball valve type 523 PVC-U
With mounting inserts
With solvent cement sockets metric

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

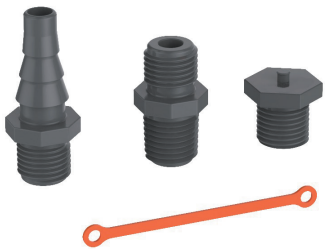
Option:

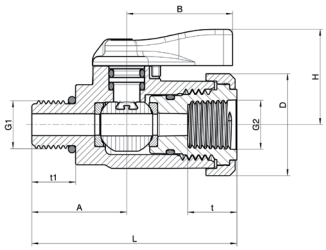
- Other materials on demand

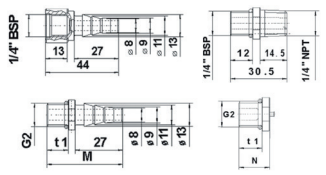
d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	10	11	**161 523 401**	1	0.170	**161 523 411**	1	0.170
20	15	10	20	**161 523 402**	1	0.169	**161 523 412**	1	0.170

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	68	27	92	77	56	25	32	45	64	⅜
20	50	68	27	95	77	56	25	32	45	64	½

Laboratory Ball Valve Type 522







Laboratory Ball Valve Type 522 PVC-U
With female thread-male thread

Model:

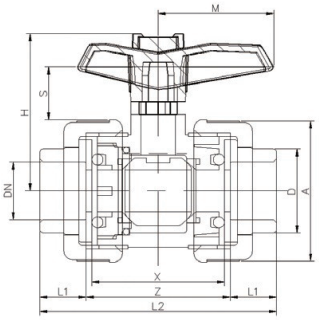
- Disconnection one end only
- Ball seal PTFE

Following connections/parts are included for every valve:
Hose Nozzle
Blind plug
Double nipple
Clip tie
Locking and metering ring
2 O-rings

d (mm)	DN (mm)	Size (inch)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code
10	6	⅛	10	**161 522 060**	1	0.050	**161 522 070**
10	6	⅛	10	**161 522 080**	1	0.050	
10	6	⅛	10	**161 522 160**	1	0.050	**161 522 170**

d (mm)	G1 (mm)	G2 (mm)	A (mm)	B (mm)	D (mm)	H (mm)	L (mm)	t (mm)	t1 (mm)
10	1/4" BSP	1/4" BSP	26.0	28.2	28	25.5	56.0	13.5	12
10	3/8" BSP	1/4" BSP	26.0	28.2	28	25.5	56.0	13.5	12
10	1/4" NPT	1/4" NPT	28.5	29.0	28	26.5	58.5	13.5	14.5

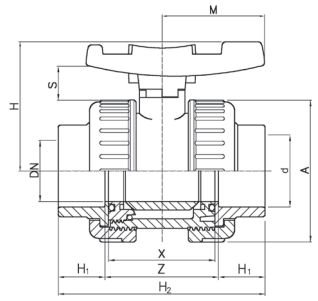
Ball Valve Type 375



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

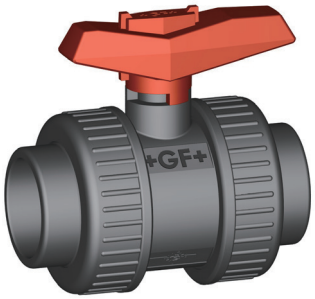
DN (mm)	L1 (mm)	d (inch)	L2 (mm)	Z (mm)	X (mm)	PN@20°C (bar)	M (mm)	S (mm)	A (mm)	H (mm)
15	16	½	91	48	42	16	40	18	49	55
20	19	¾	103	53	48	16	45	19	59	61
25	22	1	115	58	54	16	51	22	68	69
32	26	1 ¼	132	68	62	16	59	26	79	81
40	31	1 ½	146	78	72	16	70	28	94	92
50	38	2	168	93	86	16	84	37	115	108

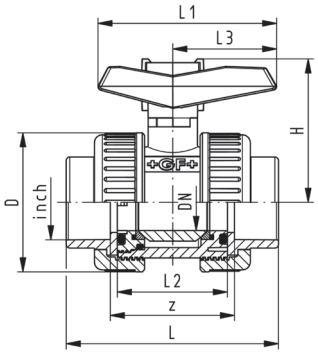
EPDM Code Code	SP	Weight (kg)
300 141 933	1	0.130
300 141 934	1	0.210
300 141 935	1	0.305
300 141 936	1	0.450
300 141 937	1	0.695
300 141 938	1	1.200



Double union safe block ball valve PVC-U
With solvent cement sockets Inch BS

d (inch)	d (mm)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	S (mm)	H1 (mm)	A (mm)	H2 (mm)	X (mm)	M (mm)	Z (mm)	H (mm)
⅜		15	16	**VSA22L160**	150	0.126	19	14	50	76	42	40	48	53
½		15	16	**VSA22L200**	150	0.129	19	16	50	80	42	40	48	53
¾		20	16	**VSA22L250**	100	0.201	19	19	59	91	48	45	53	60
1		25	16	**VSA22L320**	60	0.286	21	22	68	102	54	51	58	67
1 ¼		32	16	**VSA22L400**	36	0.433	25	26	80	120	62	59	68	79
1 ½		40	16	**VSA22L500**	24	0.703	27	31	94	140	72	70	78	90
2		50	16	**VSA22L630**	13	1.175	29	38	115	169	86	84	93	107
2 ½	75	65	10	**VSA22I750**	8	2.200	32	44	145	206	110	103	118	129
3		80	10	**VSA22L900**	4	3.310	36	51	168	242	128	120	140	143
4		100	10	**VSA22L910**	2	5.864	43	61	210	282	150	141	160	169





Ball valve type 375 PVC-U
With solvent cement sockets Inch ASTM
Inclusive 2 threaded valve ends NPT

Model:

- True double union safe block ball valve
- Ball seals PTFE
- Handle includes integrated tool for ball seat adjustment
- Very compact dimensions
- z-dimension, valve end and union nut are not compatible with type 546
- Combo valve ends reduce stock positions
- Ln : total valve length with threaded ends NPT

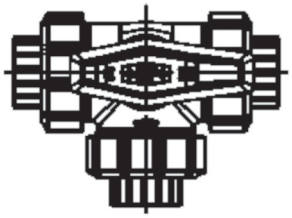
Range of use:

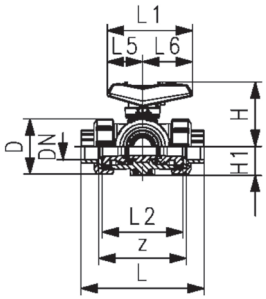
- Basic industrial applications without automation

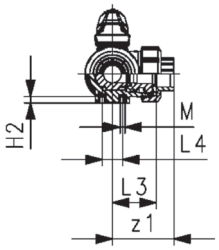
Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
⅜	10	16	71	**161 375 001**	1	0.130	**161 375 016**	1	0.130
½	15	16	185	**161 375 002**	1	0.160	**161 375 017**	1	0.160
¾	20	16	350	**161 375 003**	1	0.245	**161 375 018**	1	0.245
1	25	16	700	**161 375 004**	1	0.355	**161 375 019**	1	0.355
1 ¼	32	16	1000	**161 375 005**	1	0.440	**161 375 020**	1	0.518
1 ½	40	16	1600	**161 375 006**	1	0.707	**161 375 021**	1	0.846
2	50	16	3100	**161 375 007**	1	1.414	**161 375 022**	1	1.414
2 ½	65	10	5000	**161 375 008**	1	2.229	**161 375 023**	1	2.229
3	80	10	7000	**161 375 009**	1	3.416	**161 375 024**	1	3.416
4	100	10	11000	**161 375 010**	1	5.959	**161 375 025**	1	5.959

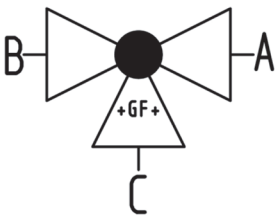
Size (inch)	D (mm)	H (mm)	L (mm)	Ln (mm)	L1 (mm)	L2 (mm)	L3 (mm)	z (mm)
⅜	50	53	88	79	67	42	40	48
½	50	53	92	79	67	42	40	48
¾	59	60	104	92	77	48	45	53
1	68	67	117	105	87	54	51	58
1 ¼	80	79	132	120	102	62	59	68
1 ½	94	90	148	126	119	72	70	78
2	115	107	169	150	146	86	84	93
2 ½	145	129	206		179	110	103	118
3	168	143	242		209	128	120	140
4	210	169	282		250	150	141	160

3-Way Type 543 Pro









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

Model:

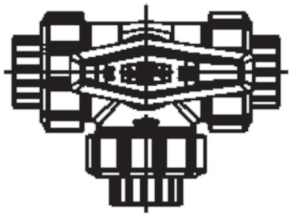
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel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

Option:

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

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	50	**161 543 061**	1	0.245	**161 543 071**	1	0.245
20	15	½	10	75	**161 543 062**	1	0.251	**161 543 072**	1	0.251
25	20	¾	10	150	**161 543 063**	1	0.361	**161 543 073**	1	0.361
32	25	1	10	280	**161 543 064**	1	0.551	**161 543 074**	1	0.551
40	32	1 ¼	10	480	**161 543 065**	1	0.938	**161 543 075**	1	0.938
50	40	1 ½	10	620	**161 543 066**	1	1.388	**161 543 076**	1	1.390
63	50	2	10	1230	**161 543 067**	1	2.728	**161 543 077**	1	2.705

D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
50	61	28	8	109	82	73	36	25	35	47	6	77	38
50	61	28	8	112	82	73	36	25	35	47	6	77	38
58	74	32	8	131	106	86	43	25	44	62	6	90	45
68	80	36	8	151	106	99	50	25	44	62	6	103	52
84	95	45	9	181	131	120	60	45	57	74	8	124	62
97	102	51	9	205	131	137	69	45	57	74	8	145	73
124	117	65	9	261	152	179	89	45	66	86	8	189	94



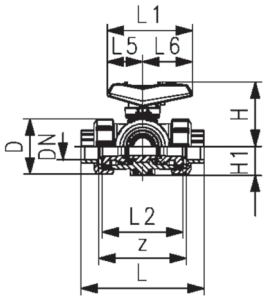
3-Way ball valve type 543 Pro PVC-U
Horizontal/T-port
With solvent cement sockets BS

Model:

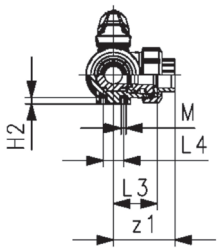
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel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

Option:

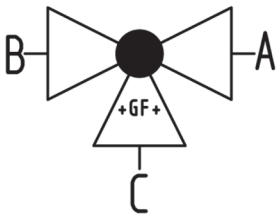
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

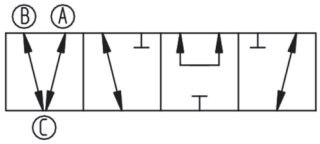


d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	⅜	10	10	140	**161 543 261**	1	0.244	**161 543 271**	1	0.244
20	½	15	10	200	**161 543 262**	1	0.250	**161 543 272**	1	0.250
25	¾	20	10	470	**161 543 263**	1	0.359	**161 543 273**	1	0.359
	1	25	10	793	**161 543 264**	1	0.544	**161 543 274**	1	0.544
40	1 ¼	32	10	1290	**161 543 265**	1	0.927	**161 543 275**	1	0.927
50	1 ½	40	10	1910	**161 543 266**	1	1.370	**161 543 276**	1	1.391
63	2	50	10	3100	**161 543 267**	1	2.689	**161 543 277**	1	2.660



D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
50	61	28	8	109	82	73	36	25	35	47	6	77	38
50	61	28	8	112	82	73	36	25	35	47	6	77	38
58	74	32	8	131	106	86	43	25	44	62	6	90	45
68	80	36	8	151	106	99	50	25	44	62	6	103	52
84	95	45	9	181	131	120	60	45	57	74	8	124	62
97	102	51	9	205	131	137	69	45	57	74	8	145	73
124	117	65	9	261	152	179	89	45	66	86	8	189	94





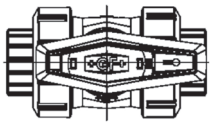
3-Way ball valve type 543 Pro PVC-U
Vertical/L-port
With solvent cement sockets BS

Model:

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

Mode of action:

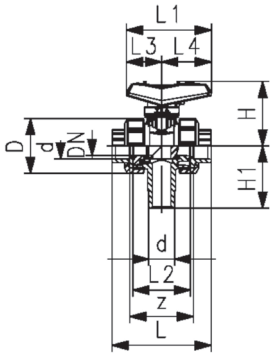
- For interconnection of two inputs



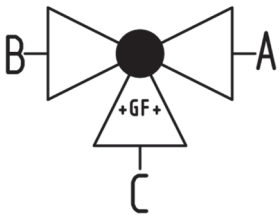
Option:

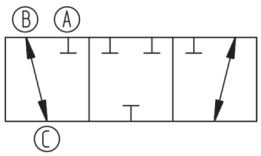
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

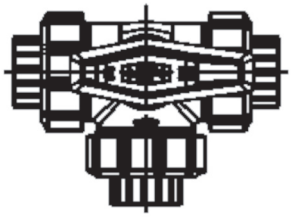
Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
⅜	10	10	49	**161 543 601**	1	0.162	**161 543 611**	1	0.162
½	15	10	77	**161 543 602**	1	0.166	**161 543 612**	1	0.166
¾	20	10	146	**161 543 603**	1	0.255	**161 543 613**	1	0.255
1	25	10	260	**161 543 604**	1	0.372	**161 543 614**	1	0.372
1 ¼	32	10	437	**161 543 605**	1	0.622	**161 543 615**	1	0.622
1 ½	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)
⅜	50	61	62	92	82	56	32	45	60
½	50	61	62	95	82	56	32	45	60
¾	58	74	72	111	106	66	39	58	69
1	68	80	77	123	106	71	39	58	75
1 ¼	84	95	87	146	131	85	54	74	89
1 ½	97	102	97	157	131	89	54	74	97
2	124	117	112	183	152	101	66	87	110







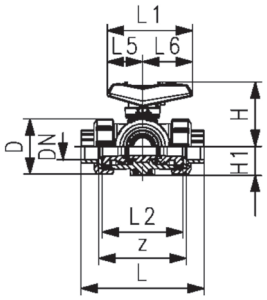
3-Way ball valve type 543 Pro PVC-U
Horizontal/L-port
With solvent cement sockets metric

Model:

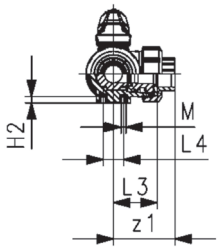
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel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

Option:

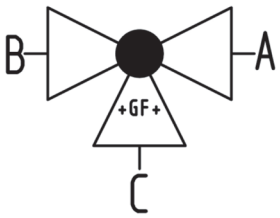
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	50	**161 543 001**	1	0.245	**161 543 011**	1	0.245
20	15	½	10	75	**161 543 002**	1	0.230	**161 543 012**	1	0.251
25	20	¾	10	150	**161 543 003**	1	0.339	**161 543 013**	1	0.361
32	25	1	10	280	**161 543 004**	1	0.526	**161 543 014**	1	0.551
40	32	1 ¼	10	480	**161 543 005**	1	0.912	**161 543 015**	1	0.938
50	40	1 ½	10	620	**161 543 006**	1	1.600	**161 543 016**	1	1.388
63	50	2	10	1230	**161 543 007**	1	2.681	**161 543 017**	1	2.705



d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	50	61	28	8	109	82	73	36	25	35	47	6	81	40	⅜
20	50	61	28	8	112	82	73	36	25	35	47	6	81	40	½
25	58	74	32	8	131	106	86	43	25	44	62	6	94	47	¾
32	68	80	36	8	151	106	99	50	25	44	62	6	107	54	1
40	84	95	45	9	181	131	120	60	45	57	74	8	130	65	1 ¼
50	97	102	51	9	205	131	137	69	45	57	74	8	143	72	1 ½
63	124	117	65	9	261	152	179	89	45	66	86	8	185	92	2



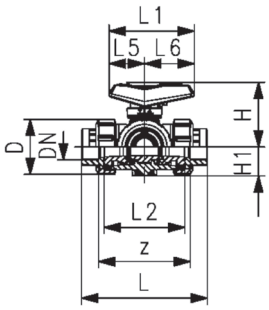
3-Way ball valve type 543 Pro PVC-U
Horizontal/T-port
With threaded sockets Rp

Model:

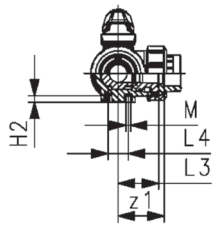
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel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

Option:

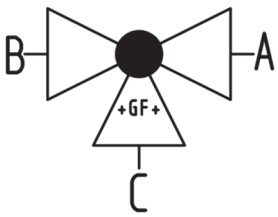
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



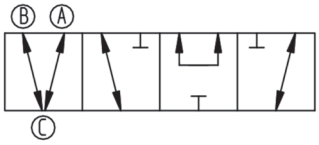
d (mm)	DN (mm)	Thread size	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	Rp	⅜	10	140	**161 543 241**	1	0.244
20	15	Rp	½	10	200	**161 543 242**	1	0.250
25	20	Rp	¾	10	470	**161 543 243**	1	0.359
	25	Rp	1	10	793	**161 543 244**	1	0.544
40	32	Rp	1 ¼	10	1290	**161 543 245**	1	0.927
50	40	Rp	1 ½	10	1910	**161 543 246**	1	1.386
63	50	Rp	2	10	3100	**161 543 247**	1	2.660



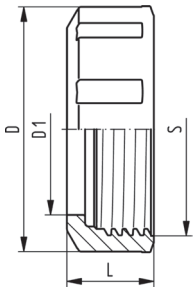
FKM Code	SP	Weight (kg)
161 543 251	1	0.244
161 543 252	1	0.250
161 543 253	1	0.359
161 543 254	1	0.544
161 543 255	1	0.927
161 543 256	1	1.400
161 543 257	1	2.660



D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
50	61	28	8	113	82	73	36	25	35	47	6	87	43
50	61	28	8	117	82	73	36	25	35	47	6	85	42
58	74	32	8	135	106	86	43	25	44	62	6	100	50
68	80	36	8	155	106	99	50	25	44	62	6	113	57
84	95	45	9	179	131	120	60	45	57	74	8	134	67
97	102	51	9	201	131	137	69	45	57	74	8	155	78
124	117	65	9	255	152	179	89	45	66	86	8	199	99

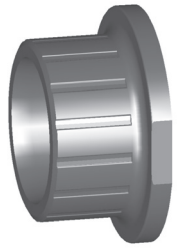


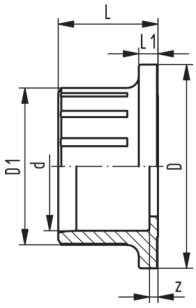
Valve Ends and Connections



Union nut 546 and 543 PVC-U

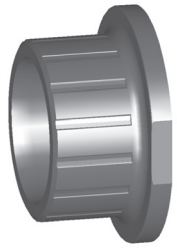
d (mm)	DN (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	S (mm)	Closest inch (inch)
16 - 20	10 - 15	**161 490 538**	0.019	50	34	19	42	⅜ - ½
25	20	**161 490 539**	0.023	58	39	20	48	¾
32	25	**161 490 540**	0.041	68	47	24	58	1
40	32	**161 490 541**	0.066	84	57	27	71	1 ¼
50	40	**161 490 542**	0.092	97	65	30	84	1 ½
63	50	**161 490 543**	0.189	124	79	36	106	2
75	65	**161 490 544**	0.562	166	94	48	135	2 ½
90	80	**161 490 545**	0.882	200	113	54	135	3
110	100	**161 490 546**	1.355	238	137	60	198	4

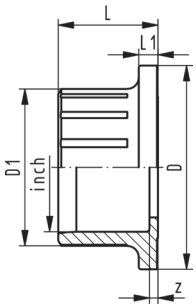




Valve end 546 Pro and 543 Pro PVC-U (G01)
With solvent cement socket metric

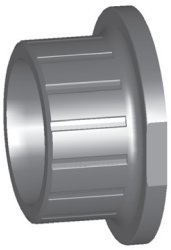
d (mm)	PN (bar)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
16	16	**161 490 666**	1	0.011	38	23	18	4	4
20	16	**161 490 667**	1	0.009	38	27	20	4	4
25	16	**161 490 668**	1	0.012	44	33	23	5	4
32	16	**161 490 669**	1	0.024	53	41	26	5	4
40	16	**161 490 670**	1	0.042	65	51	31	5	5
50	16	**161 490 671**	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**	1	0.639	180	134	69	11	5

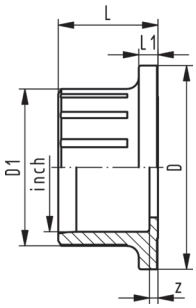




Valve end 546 Pro and 543 Pro PVC-U (G03)
With solvent cement socket Inch ASTM

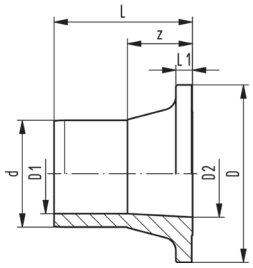
Size (inch)	d (mm)	PN (bar)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
⅜	16	16	**161 490 712**	1	0.012	38	24	25	4	6
½	20	16	**161 490 713**	1	0.014	38	30	25	4	2
¾	25	16	**161 490 714**	1	0.020	44	35	28	5	3
1	32	16	**161 490 715**	1	0.031	53	43	31	5	3
1 ¼	40	16	**161 490 716**	1	0.046	65	53	34	5	3
1 ½	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 ½	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**	1	0.582	180	134	69	11	11





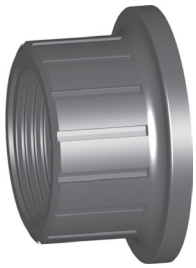
Valve end 546 Pro and 543 Pro PVC-U (G04)
With solvent cement socket Inch BS

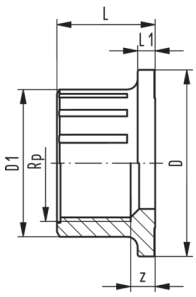
Size (inch)	d (mm)	PN (bar)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
⅜	16	16	**161 490 734**	1	0.009	38	23	18	4	2
½	20	16	**161 490 735**	1	0.010	38	27	20	4	2
¾	25	16	**161 490 736**	1	0.013	44	33	23	5	2
1	32	16	**161 490 737**	1	0.021	53	41	26	5	2
1 ¼	40	16	**161 490 738**	1	0.036	65	51	31	5	2
1 ½	50	16	**161 490 739**	1	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**	1	0.577	180	134	69	11	5



Valve end 546 Pro and 543 Pro 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**	1	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**	1	0.161	99	49	51	62	7	24
75	16	**161 490 708**	1	0.302	125	58	65	74	9	30
90	16	**161 490 709**	1	0.467	150	70	90	80	10	28
110	16	**161 490 710**	1	0.747	180	86	100	88	11	27



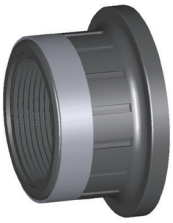


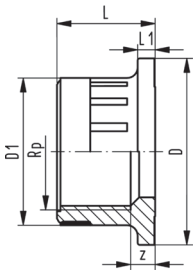
Valve end 546 Pro and 543 Pro PVC-U (G06)
With threaded socket Rp

Model:

- Connection to plastic thread 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)
⅜	10	**161 490 690**	1	0.011	7	24	38	20	4
½	10	**161 490 691**	1	0.013	6	28	38	22	4
¾	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 ¼	10	**161 490 694**	1	0.047	7	52	65	30	5
1 ½	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 ½	10	**161 490 697**	1	0.255	18	92	125	49	9
3	10	**161 490 698**	1	0.436	23	110	150	57	10
4	10	**161 490 699**	1	0.645	29	134	180	69	11



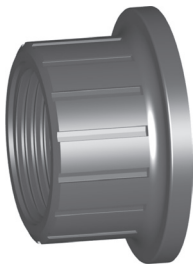


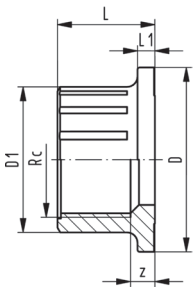
Valve end 546 Pro and 543 Pro PVC-U (G07)
With threaded socket Rp reinforced

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)
⅜	16	**161 490 825**	1	0.013	38	24	20	4	7
½	16	**161 490 826**	1	0.016	38	28	22	4	6
¾	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 ¼	16	**161 490 829**	1	0.058	65	52	30	5	7
1 ½	16	**161 490 830**	1	0.084	77	63	32	6	9
2	16	**161 490 831**	1	0.166	99	78	38	7	10



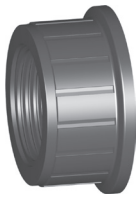


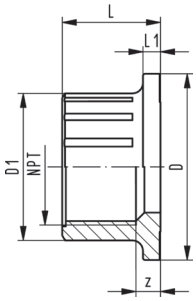
Valve end 546 Pro and 543 Pro PVC-U (G08)
With threaded socket Rc

Model:

- Connection to plastic thread 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**	1	0.013	38	28	22	4	5
10	¾	**161 490 756**	1	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**	1	0.047	65	52	30	5	6
10	1 ½	**161 490 759**	1	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**	1	0.261	125	58	49	9	18
10	3	**161 490 762**	1	0.444	150	110	57	10	23
10	4	**161 490 763**	1	0.682	180	134	69	11	29



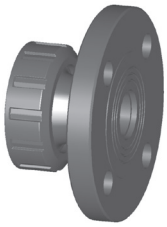


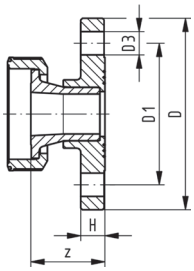
Valve end 546 Pro and 543 Pro PVC-U (G09)
With threaded socket NPT

Model:

- Connection to plastic thread 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)
⅜	10	**161 490 723**	1	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**	1	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**	1	0.287	125	58	49	9	15
3	10	**161 490 731**	1	0.451	150	110	57	10	21
4	10	**161 490 732**	1	0.692	180	134	69	11	31



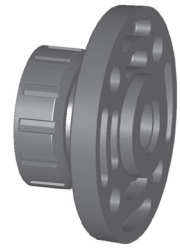


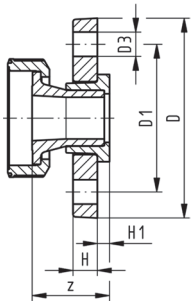
Valve end 546 Pro PVC-U (G60)
Assembly with fixed flange PVC-U metric

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**	1	0.131	95	65	14	12	37
25	20	16	**161 486 361**	1	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**	1	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



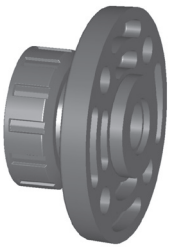


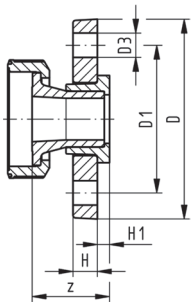
Valve end 546 Pro PVC-U (G70)
Assembly with backing flange PVC-U metric

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**	1	0.110	95	65	14	11	6	37
25	20	16	**161 486 266**	1	0.155	105	75	14	12	7	42
32	25	16	**161 486 267**	1	0.230	115	85	14	14	7	45
40	32	16	**161 486 268**	1	0.360	140	100	18	15	8	48
50	40	16	**161 486 269**	1	0.500	150	110	18	16	8	56
63	50	16	**161 486 270**	1	0.770	165	125	18	18	9	65
75	65	10	**161 486 271**	1	1.429	185	145	18	19	10	77
90	80	10	**161 486 272**	1	2.109	200	160	18	20	11	85
110	100	10	**161 486 273**	1	3.067	220	180	18	22	12	93



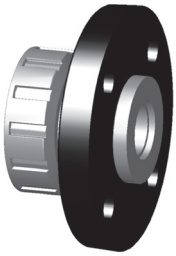


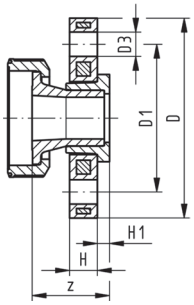
Valve end 546 Pro PVC-U (G71)
Assembly with backing flange PVC-U
Inch ANSI

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**	1	0.110	95	60	14	11	6	37
¾	25	16	**161 486 276**	1	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**	1	0.375	140	89	18	15	8	48
1 ½	50	16	**161 486 279**	1	0.495	150	98	18	16	8	56
2	63	16	**161 486 280**	1	0.760	165	121	18	18	9	65
2 ½	75	10	**161 486 281**	1	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



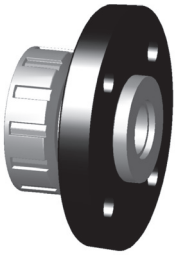


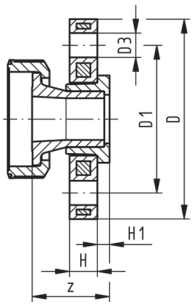
Valve end 546 Pro PVC-U (G72)
Assembly with backing flange PP-st metric

Model:

- Joint made with special adhesive Tangit for PVC-U
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

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**	1	0.325	105	75	14	12	7	42
32	25	16	**161 486 287**	1	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**	1	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**	1	2.905	200	160	18	20	11	85
110	100	16	**161 486 293**	1	4.079	220	180	18	20	12	93



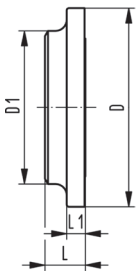


Valve end 546 Pro PVC-U (G73)
Assembly with backing flange PP-st inch

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**	1	0.250	95	60	16	12	6	37
¾	20	16	**161 486 426**	1	0.310	105	70	16	12	7	42
1	25	16	**161 486 427**	1	0.520	115	79	16	16	7	45
1 ¼	32	16	**161 486 428**	1	0.835	140	89	16	16	8	48
1 ½	40	16	**161 486 429**	1	1.110	150	98	16	18	8	56
2	50	16	**161 486 430**	1	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

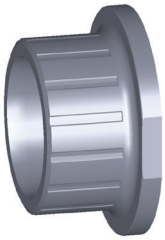


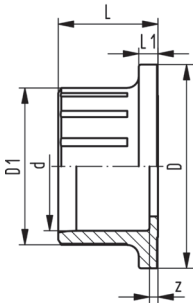
Valve end blank 546 Pro and 543 Pro PVC-U (G80)

Model:

- Flat sealing faces

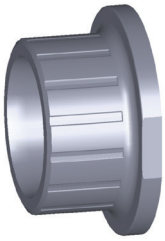
d (mm)	DN (mm)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)
20	15	½	16	**161 490 837**	1	0.009	38	23	8	4
25	20	¾	16	**161 490 838**	1	0.014	44	33	10	5
32	25	1	16	**161 490 839**	1	0.021	53	41	11	5
40	32	1 ¼	16	**161 490 840**	1	0.034	65	51	11	5
50	40	1 ½	16	**161 490 841**	1	0.057	77	62	14	6
63	50	2	16	**161 490 842**	1	0.113	99	77	17	7

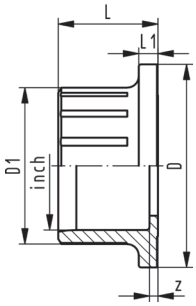




Valve end 546 and 543 ABS (G20)
With solvent cement socket metric

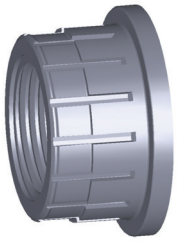
d (mm)	PN (bar)	Code	Weight (kg)	D1 (mm)	z (mm)	L (mm)	D (mm)	L1 (mm)
16	10	**169 480 775**	0.006	23	4	18	38	4
20	10	**169 480 776**	0.008	27	4	20	38	4
25	10	**169 480 777**	0.012	33	4	22	44	5
32	10	**169 480 778**	0.019	41	4	26	53	5
40	10	**169 480 779**	0.031	51	5	31	65	5
50	10	**169 480 780**	0.047	62	3	34	77	6
63	10	**169 480 781**	0.086	77	3	41	99	7
75	10	**169 480 782**	0.175	92	4	49	125	9
90	10	**169 480 783**	0.292	110	5	57	150	10
110	10	**169 480 784**	0.495	134	5	69	180	11

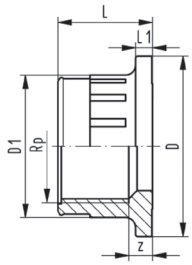




Valve end 546 and 543 ABS (G21)
With solvent cement socket Inch BS

d (mm)	Size (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
16	⅜	10	**169 480 800**	0.007	38	23	18	4	2
20	½	10	**169 480 801**	0.007	38	27	20	4	2
25	¾	10	**169 480 802**	0.011	44	33	23	5	2
32	1	10	**169 480 803**	0.017	53	41	26	5	2
40	1 ¼	10	**169 480 804**	0.026	65	51	31	5	2
50	1 ½	10	**169 480 805**	0.052	77	62	34	6	4
63	2	10	**169 480 806**	0.100	99	77	41	7	5
75	2 ½	10	**169 480 782**	0.175	125	92	49	9	4
90	3	10	**169 480 808**	0.300	150	110	57	10	6
110	4	10	**169 480 809**	0.446	180	134	69	11	5



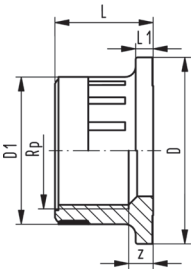


Valve end 546 and 543 ABS (G22)
With threaded socket Rp

Model:

- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to ABS

Rp (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
⅜	10	**169 480 786**	0.008	38	24	20	4	7
½	10	**169 480 787**	0.009	38	28	22	4	6
¾	10	**169 480 788**	0.014	44	34	25	5	7
1	10	**169 480 789**	0.023	53	42	28	5	7
1 ¼	10	**169 480 790**	0.034	65	52	30	5	7
1 ½	10	**169 480 791**	0.059	77	63	32	6	9
2	10	**169 480 792**	0.109	99	78	38	7	10

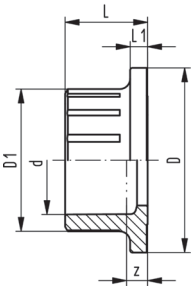


Valve end 546 and 543 ABS (G23)
With threaded socket Rp reinforced

Model:

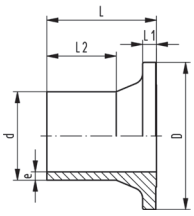
- Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- Do not use thread sealing pastes that are harmful to ABS

Rp (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
⅜	16	**169 480 925**	0.008	38	24	20	4	7
½	16	**169 480 926**	0.010	38	28	22	4	6
¾	16	**169 480 927**	0.014	44	34	25	5	7
1	16	**169 480 928**	0.023	53	42	28	5	7
1 ¼	16	**169 480 929**	0.035	65	52	30	5	7
1 ½	16	**169 480 930**	0.077	77	63	32	6	9
2	16	**169 480 931**	0.130	99	78	38	7	10



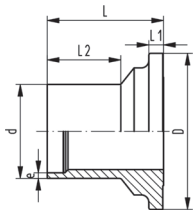
Valve end 546 and 543 PE 100 (G40)
With fusion socket metric

d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
16	16	**193 480 175**	0.007	38	23	19	4	5
20	16	**193 480 176**	0.007	38	27	20	4	5
25	16	**193 480 177**	0.012	44	33	22	5	6
32	16	**193 480 178**	0.017	53	41	24	5	6
40	16	**193 480 179**	0.026	65	51	26	5	7
50	16	**193 480 180**	0.042	77	62	29	6	8
63	16	**193 480 181**	0.075	99	77	34	7	8



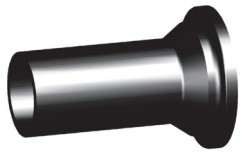
Valve end 546 and 543 PE 100 (G41)
With butt fusion spigot IR-Plus® SDR11 metric

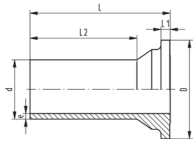
d (mm)	FM	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)
20	IR	16	**193 480 102**	0.008	38	37	4	25	1.9
25	IR	16	**193 480 103**	0.013	44	39	5	25	2.3
32	IR	16	**193 480 104**	0.019	53	40	5	25	2.9
40	IR	16	**193 480 105**	0.030	65	43	5	25	3.7
50	IR	16	**193 480 106**	0.054	77	51	6	25	4.6
63	IR	16	**193 480 107**	0.096	99	60	7	28	5.8



Valve end 546 and 543 PE 100 (G42)
With butt fusion spigot IR-Plus® SDR17,6 metric

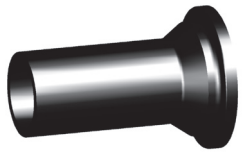
d (mm)	FM	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)
40	IR	10	**193 480 086**	0.030	65	43	5	25	2.3
50	IR	10	**193 480 087**	0.053	77	51	6	25	2.9
63	IR	10	**193 480 088**	0.096	99	60	7	28	3.6

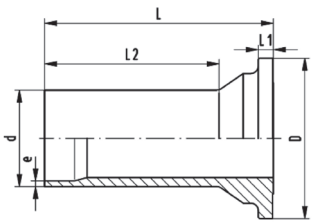




Valve end 546 and 543 PE 100 (G43)
With butt fusion spigot long SDR11 metric

d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)
20	16	**193 480 152**	0.013	38	69	4	53	2.2
25	16	**193 480 153**	0.023	44	76	5	58	2.3
32	16	**193 480 154**	0.032	53	76	5	58	2.9
40	16	**193 480 155**	0.054	65	82	5	61	3.7
50	16	**193 480 156**	0.086	77	91	6	63	4.6
63	16	**193 480 157**	0.165	99	110	7	77	5.8
75	16	**193 480 158**	0.280	125	125	9	89	6.8
90	16	**193 480 159**	0.447	150	140	10	103	8.2
110	16	**193 480 160**	0.731	180	160	11	117	10.0



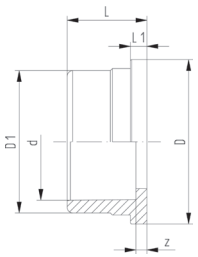


Valve end 546 and 543 PE 100 (G44)
With butt fusion spigot long SDR17,6 metric

Model:

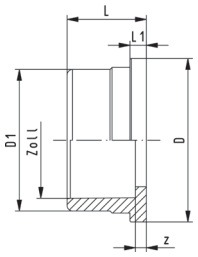
- Material: PE100

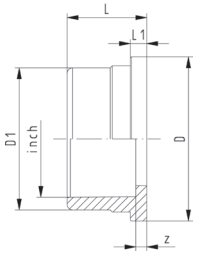
d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)
75	16	**193 480 168**	0.260	125	125	9	89	4.3
90	16	**193 480 169**	0.415	150	140	10	103	5.1
110	16	**193 480 170**	0.683	180	160	11	117	6.3



Valve end 375 PVC-U
Solvent cement socket metric

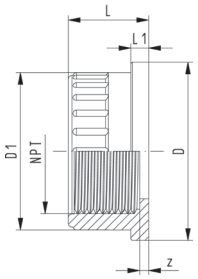
d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
16	10	16	**161 375 901**	0.012	35	26	18	5	4
20	15	16	**161 375 902**	0.009	35	29	18	5	2
25	20	16	**161 375 903**	0.015	43	35	21	5	2
32	25	16	**161 375 904**	0.025	51	43	24	6	2
40	32	16	**161 375 905**	0.042	60	52	29	6	3
50	40	16	**161 375 906**	0.059	72	62	34	7	3
63	50	16	**161 375 907**	0.100	89	76	41	7	3
75	65	10	**161 375 908**	0.176	115	90	47	8	3
90	80	10	**161 375 909**	0.280	133	106	56	10	5
110	100	10	**161 375 910**	0.510	166	130	66	12	5





Valve end 375 PVC-U
Solvent cement socket BS

Size (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
⅜	16	**161 375 911**	0.012	35	26	18	5	4
½	16	**161 375 912**	0.011	35	29	18	5	2
¾	16	**161 375 913**	0.016	43	35	21	5	2
1	16	**161 375 914**	0.024	51	43	24	6	2
1 ¼	16	**161 375 915**	0.038	60	52	29	6	2
1 ½	16	**161 375 916**	0.066	72	62	34	7	3
2	16	**161 375 917**	0.113	89	76	41	7	3
2 ½	10	**161 375 908**	0.176	115	90	47	8	3
3	10	**161 375 919**	0.286	133	106	56	10	5
4	10	**161 375 920**	0.438	166	131	66	12	5



Valve end 375 PVC-U
Threaded socket NPT

Model:

- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

NPT (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
⅜	10	**161 375 437**	0.011	35	26	18	5	5
½	10	**161 375 438**	0.012	35	30	24	5	6
¾	10	**161 375 439**	0.019	43	36	21	5	5
1	10	**161 375 440**	0.027	51	44	24	6	5
1 ¼	10	**161 375 441**	0.039	60	53	27	6	6
1 ½	10	**161 375 442**	0.062	72	64	27	7	6

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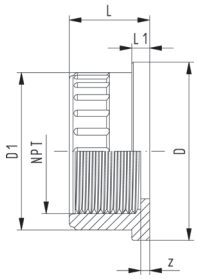
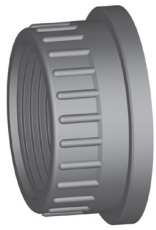
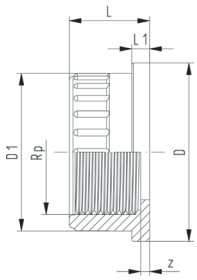


NPT (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
2	10	**161 375 443**	0.100	89	77	31	7	5
2 ½	10	**161 375 444**	0.176	115	90	36	8	6
3	10	**161 375 445**	0.262	133	106	41	10	8
4	10	**161 375 446**	0.406	166	130	47	12	8



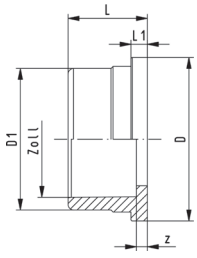


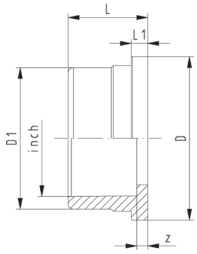
Valve end 375 PVC-U
Threaded socket Rp

Model:

- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

Rp (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
⅜	10	**161 375 921**	0.012	35	26	18	5	7
½	10	**161 375 922**	0.011	33	30	18	5	3
¾	10	**161 375 923**	0.017	43	36	21	5	5
1	10	**161 375 924**	0.027	51	44	24	6	5
1 ¼	10	**161 375 925**	0.042	60	53	27	6	6
1 ½	10	**161 375 926**	0.059	72	63	27	7	6
2	10	**161 375 927**	0.102	89	77	31	7	5
2 ½	10	**161 375 928**	0.158	115	90	36	8	6
3	10	**161 375 929**	0.244	133	106	41	10	8
4	10	**161 375 930**	0.389	166	130	47	12	8



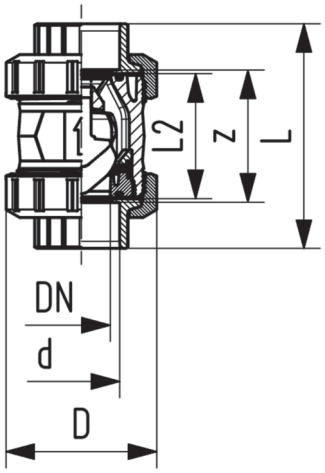


Valve end 375 PVC-U
Solvent cement socket ASTM

Size (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
⅜	16	**161 375 427**	0.013	35	26	23	5	4
½	16	**161 375 428**	0.013	35	29	25	5	2
¾	16	**161 375 429**	0.020	43	35	28	5	2
1	16	**161 375 430**	0.029	51	43	31	6	2
1 ¼	16	**161 375 431**	0.042	60	53	34	6	2
1 ½	16	**161 375 432**	0.071	72	62	38	7	3
2	16	**161 375 433**	0.117	89	76	41	7	3
2 ½	10	**161 375 434**	0.194	114	90	48	8	3
3	10	**161 375 435**	0.288	133	106	57	10	8
4	10	**161 375 436**	0.456	165	130	66	12	5

Cone check valves

Check Valve Type 561

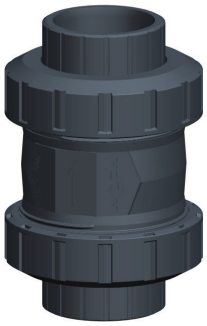


Check valve type 561 PVC-U
With transparent housing
With solvent cement sockets metric

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
- Sealing at a minimum water column of 2m

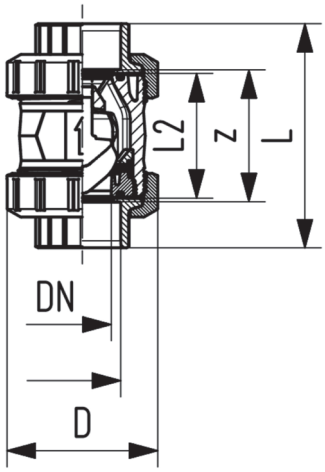
d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
32	25	16	460	**192 561 004**	1	0.290	68	123	71	79	1
63	50	16	1670	**192 561 007**	1	1.330	124	183	101	107	2



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

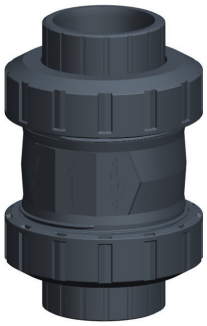
Model:

- 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)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	16	190	**161 561 061**	1	0.120	**161 561 071**	1	0.120
20	15	½	16	180	**161 561 062**	1	0.120	**161 561 072**	1	0.120
25	20	¾	16	380	**161 561 063**	1	0.250	**161 561 073**	1	0.270
32	25	1	16	460	**161 561 064**	1	0.276	**161 561 074**	1	0.280
40	32	1 ¼	16	850	**161 561 065**	1	0.490	**161 561 075**	1	0.490
50	40	1 ½	16	1080	**161 561 066**	1	0.760	**161 561 076**	1	0.770
63	50	2	16	1670	**161 561 067**	1	1.374	**161 561 077**	1	1.370
75	65	2 ½	16	2950	**161 561 008**	1	3.160	**161 561 018**	1	3.170
90	80	3	16	3600	**161 561 069**	1	5.070	**161 561 079**	1	5.090
110	100	4	16	4150	**161 561 070**	1	8.010	**161 561 080**	1	8.050

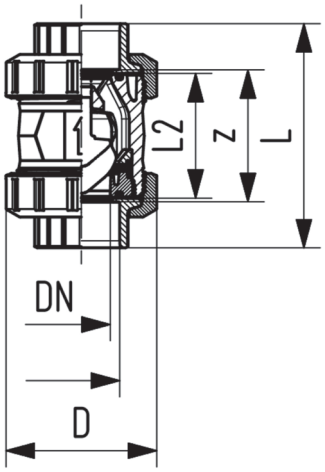
D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
50	92	56	60	
50	95	56	60	
58	110	65	69	
68	123	71	75	
84	146	85	89	
97	157	89	97	
124	183	101	110	
166	233	136	144	2 ½
200	254	141	151	
238	301	164	174	



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



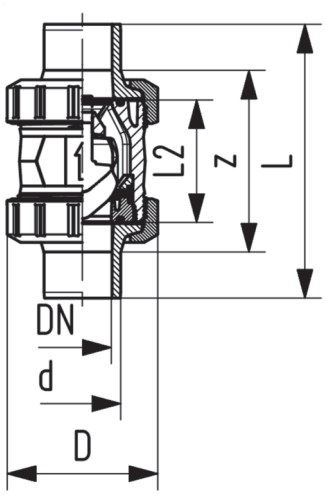
d (mm)	Thread Type	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
16	Rp	⅜	10	10	190	**161 561 021**	1	0.130
20	Rp	½	15	10	180	**161 561 022**	1	0.130
25	Rp	¾	20	10	380	**161 561 023**	1	0.260
32	Rp	1	25	10	460	**161 561 024**	1	0.300
40	Rp	1 ¼	32	10	850	**161 561 025**	1	0.510
50	Rp	1 ½	40	10	1080	**161 561 026**	1	0.780
63	Rp	2	50	10	1670	**161 561 027**	1	1.390
75	Rp	2 ½	65	10	2950	**161 561 028**	1	3.800
90	Rp	3	80	10	3600	**161 561 029**	1	5.160
110	Rp	4	100	10	4150	**161 561 030**	1	8.140

FKM Code	SP	Weight (kg)	D (mm)	L (mm)	L2 (mm)	z (mm)
161 561 031	1	0.130	50	95	56	69
161 561 032	1	0.130	50	100	56	67
161 561 033	1	0.280	58	114	65	78
161 561 034	1	0.300	68	127	71	85
161 561 035	1	0.520	84	146	85	100
161 561 036	1	0.790	97	152	89	106
161 561 037	1	1.400	124	177	101	121
161 561 038	1	3.820	166	233	136	144
161 561 039	1	5.180	200	254	141	151
161 561 040	1	8.180	238	301	164	174

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

Model:

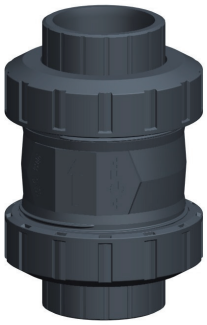
- Sealing at a minimum water column of 2m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts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

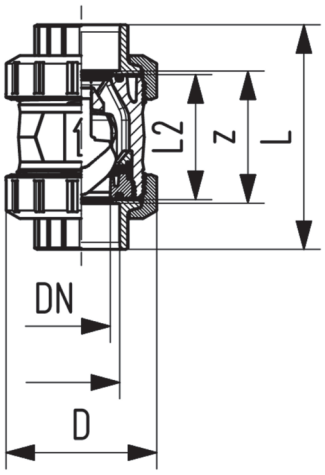


d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	16	190	**161 561 041**	1	0.130	**161 561 051**	1	0.130
20	15	½	16	180	**161 561 042**	1	0.130	**161 561 052**	1	0.130
25	20	¾	16	380	**161 561 043**	1	0.188	**161 561 053**	1	0.290
32	25	1	16	460	**161 561 044**	1	0.296	**161 561 054**	1	0.320
40	32	1 ¼	16	850	**161 561 045**	1	0.530	**161 561 055**	1	0.530
50	40	1 ½	16	1080	**161 561 046**	1	0.762	**161 561 056**	1	0.810
63	50	2	16	1670	**161 561 047**	1	1.419	**161 561 057**	1	1.450
75	65	2 ½	16	2950	**161 561 048**	1	3.370	**161 561 058**	1	3.380
90	80	3	16	3600	**161 561 049**	1	5.320	**161 561 059**	1	5.340
110	100	4	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	⅜
20	50	124	56	½
25	58	144	65	¾
32	68	154	71	1
40	84	174	85	1 ¼
50	97	194	89	1 ½
63	124	224	101	2
75	166	284	136	2 ½
90	200	300	141	3
110	238	340	164	4

Check Valve Type 562





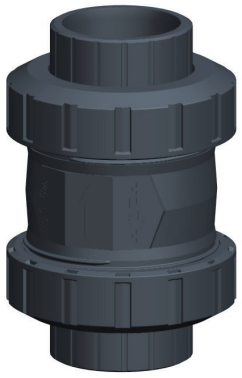
Check valve type 562 PVC-U
With solvent cement sockets Inch BS

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-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
	⅜	10	16	190	**161 562 061**	1	0.120	**161 562 071**	1	0.120
	½	15	16	180	**161 562 062**	1	0.120	**161 562 072**	1	0.120
	¾	20	16	380	**161 562 063**	1	0.250	**161 562 073**	1	0.270
	1	25	16	460	**161 562 064**	1	0.280	**161 562 074**	1	0.280
	1 ¼	32	16	850	**161 562 065**	1	0.490	**161 562 075**	1	0.490
	1 ½	40	16	1080	**161 562 066**	1	0.760	**161 562 076**	1	0.770
	2	50	16	1670	**161 562 067**	1	1.378	**161 562 077**	1	1.370
75	2 ½	65	16	2950	**161 562 008**	1	3.160	**161 562 018**	1	3.170
	3	80	16	3600	**161 562 069**	1	5.070	**161 562 079**	1	5.090
	4	100	16	4150	**161 562 070**	1	8.010	**161 562 080**	1	8.050

D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
50	92	56	60	
50	95	56	60	
58	110	65	69	
68	123	71	75	
84	146	85	89	
97	157	89	97	
124	183	101	110	
166	233	136	144	2 ½
200	254	141	151	
238	301	164	174	

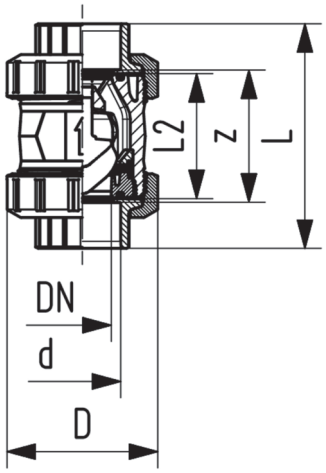


Check valve type 562 PVC-U
With solvent cement sockets Inch BS With Halar coated spring

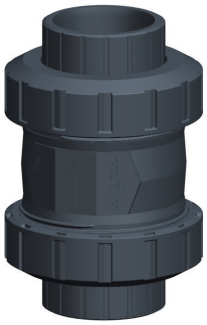
Note:
Use of HALAR coated springs, specifically suited to resist a wide variety of corrosive chemicals including strong acids, chlorine & aqueous caustics, which includes sodium hypochlorite systems.

Model:

- Spring loaded, spring made of NIMONIC 90, HALAR coated
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



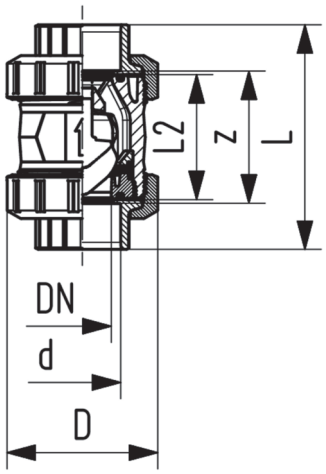
Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	FKM Code	Weight (kg)	D (mm)	L (mm)	L2 (mm)	z (mm)
⅜	10	16	190	**800 048 864**	**800 048 869**	0.120	50	92	56	60
½	15	16	180	**800 048 865**	**800 048 870**	0.120	50	95	56	60
¾	20	16	380	**800 048 726**	**800 048 871**	0.270	58	110	65	69
1	25	16	460	**800 048 825**	**800 048 872**	0.280	68	123	71	75
1 ¼	32	16	850	**800 048 866**	**800 048 873**	0.490	84	146	85	89
1 ½	40	16	1080	**800 048 867**	**800 048 874**	0.770	97	157	89	97
2	50	16	1670	**800 048 826**	**800 048 875**	1.370	124	183	101	110
	65	16	2950	**800 048 868**	**800 048 876**	3.170	166	233	136	144
3	80	16	3600	**800 048 827**	**800 048 877**	5.090	200	254	141	151
4	100	16	4150	**800 048 727**	**800 048 878**	8.050	238	301	164	174



Check valve type 562 PVC-U
With solvent cement sockets metric

Model:

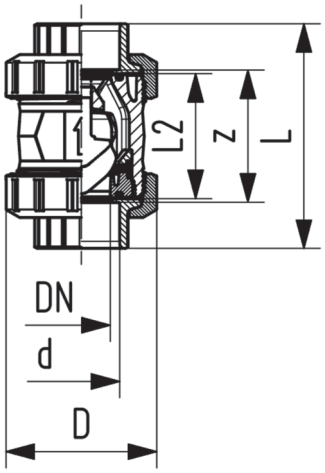
- For horizontal or vertical installation
- Sealing at a minimum water column of 1m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized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



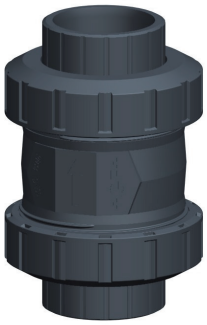
d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	16	190	**161 562 001**	1	0.120	**161 562 011**	1	0.120
20	15	16	180	**161 562 002**	1	0.130	**161 562 012**	1	0.130
25	20	16	380	**161 562 003**	1	0.250	**161 562 013**	1	0.270
32	25	16	460	**161 562 004**	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	⅜
20	50	95	56	64	½
25	58	110	65	72	¾

table continued on the next page



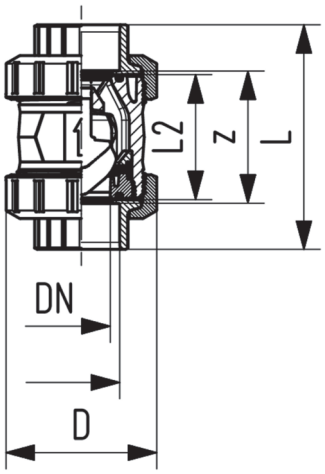
d (mm)	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
32	68	123	71	79	1
40	84	146	85	94	1 ¼
50	97	157	89	95	1 ½
63	124	183	101	107	2
75	166	233	136	144	2 ½
90	200	254	141	151	3
110	238	301	164	174	4



Check valve type 562 PVC-U
With 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 (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM 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
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

Spare parts

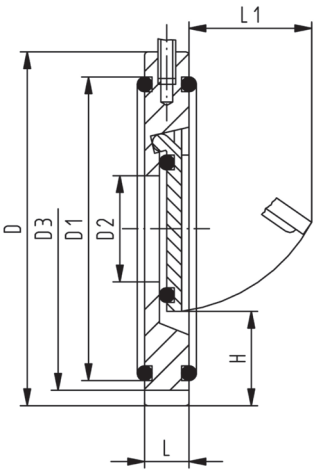
Spring (8)

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	⅜	10	**161 485 132**	0.005	**161 485 142**	0.005	**161 485 152**	0.005
20	½	15	**161 485 132**	0.005	**161 485 142**	0.005	**161 485 152**	0.005
25	¾	20	**161 485 132**	0.005	**161 485 142**	0.005	**161 485 152**	0.005
32	1	25	**161 485 133**	0.002	**161 485 143**	0.005	**161 485 153**	0.005
40	1 ¼	32	**161 485 134**	0.002	**161 485 144**	0.002	**161 485 154**	0.002
50	1 ½	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 ½	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

Wafer check valves



Wafer check valve type 369 PVC-U
Without spring

Model:

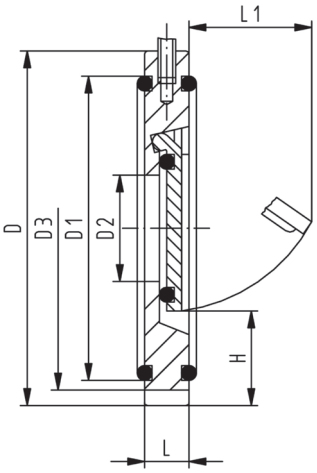
- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

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	SP	Weight (kg)	FKM Code	SP	Weight (kg)
40	1 ¼	32	10	**161 369 002**	1	0.110	**161 369 022**	1	0.108
50	1 ½	40	10	**161 369 003**	1	0.174	**161 369 023**	1	0.202
63	2	50	10	**161 369 004**	1	0.273	**161 369 024**	1	0.277
75	2 ½	65	10	**161 369 005**	1	0.352	**161 369 025**	1	0.386
90	3	80	10	**161 369 006**	1	0.560	**161 369 026**	1	0.591
110	4	100	10	**161 369 007**	1	0.651	**161 369 027**	1	0.667
140	5	125	10	**161 369 009**	1	0.791	**161 369 029**	1	0.856
160	6	150	6	**161 369 010**	1	1.153	**161 369 030**	1	1.207
225	8	200	6	**161 369 011**	1	2.215	**161 369 031**	1	2.306
280	10	250	6	**161 369 012**	1	3.850	**161 369 032**	1	3.915
315	12	300	6	**161 369 013**	1	7.059	**161 369 033**	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 horizontal (mbar)	Minimum water column for sealing (m)
40	85	59	18		25	15	22	10	1	2
50	105	77	22	95	27	16	27	10	1	2
63	124	92	32	109	29	18	40	10	1	2
75	137	111	40	129	31	20	55	10	1	2
90	175	131	54	144	32	20	67	10	1	2
110	175	153	70	164	31	23	77	10	1	2
140	195	185	92		35	23	94	10	1	2
160	222	198	105	220	41	26	100	10	1	2
225	279	259	154	275	38	34	152	18	1	2
280	340	311	192	330	41	40	180	18	1	2
315	410	347	227	380	41	45	215	18	1	2



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

Model:

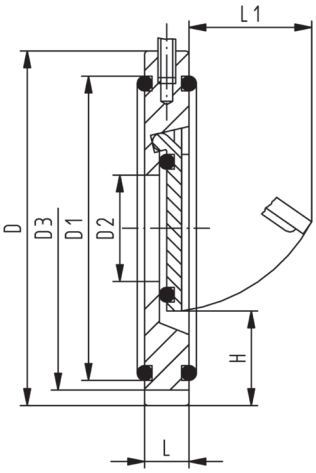
- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

Installation instruction:

- Installation between ISO/DIN (all dimensions) and ANSI 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	SP	Weight (kg)	FKM Code	SP	Weight (kg)
40	1 ¼	32	10	**161 369 042**	1	0.130	**161 369 062**	1	0.107
50	1 ½	40	10	**161 369 043**	1	0.160	**161 369 063**	1	0.206
63	2	50	10	**161 369 044**	1	0.273	**161 369 064**	1	0.250
75	2 ½	65	10	**161 369 045**	1	0.357	**161 369 065**	1	0.320
90	3	80	10	**161 369 046**	1	0.561	**161 369 066**	1	0.390
110	4	100	10	**161 369 047**	1	0.651	**161 369 067**	1	0.684
140	5	125	10	**161 369 049**	1	0.791	**161 369 069**	1	0.750
160	6	150	6	**161 369 050**	1	1.171	**161 369 070**	1	1.100
225	8	200	6	**161 369 051**	1	2.252	**161 369 071**	1	2.100
280	10	250	6	**161 369 052**	1	3.790	**161 369 072**	1	3.500
315	12	300	6	**161 369 053**	1	6.274	**161 369 073**	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 horizontal (mbar)	Minimum water column for sealing (m)
40	85	59	18		25	15	22	30	20	2
50	105	77	22	95	27	16	27	30	20	2
63	124	92	32	109	29	18	40	30	20	2
75	137	111	40	129	31	20	55	30	20	2
90	175	131	54	144	32	20	67	30	20	2
110	175	153	70	164	31	23	77	30	20	2
140	195	185	92		35	23	94	30	20	2
160	222	198	105	220	41	26	100	30	20	2
225	279	259	154	275	38	34	152	38	20	2
280	340	311	192	330	41	40	180	38	20	2
315	410	347	227	380	41	45	215	38	20	2



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

Model:

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

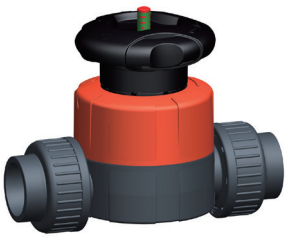
Installation instruction:

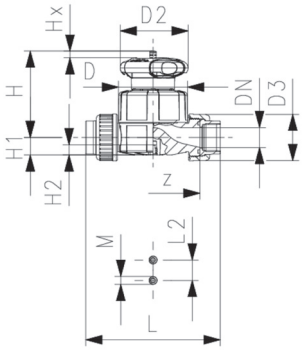
- Installation between ISO/DIN (all dimensions) and ANSI flange adaptors (all except DN32 and DN125)
- Installation with ANSI flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI flange 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	SP	Weight (kg)	FKM Code	SP	Weight (kg)
40	1 ¼	32	10	**161 369 082**	1	0.130	**161 369 102**	1	0.130
50	1 ½	40	10	**161 369 083**	1	0.174	**161 369 103**	1	0.160
63	2	50	10	**161 369 084**	1	0.250	**161 369 104**	1	0.277
75	2 ½	65	10	**161 369 085**	1	0.320	**161 369 105**	1	0.320
90	3	80	10	**161 369 086**	1	0.390	**161 369 106**	1	0.390
110	4	100	10	**161 369 087**	1	0.654	**161 369 107**	1	0.550
140	5	125	10	**161 369 089**	1	0.750	**161 369 109**	1	0.750
160	6	150	6	**161 369 090**	1	1.164	**161 369 110**	1	1.100
225	8	200	6	**161 369 091**	1	2.100	**161 369 111**	1	2.100
280	10	250	6	**161 369 092**	1	3.500	**161 369 112**	1	3.500
315	12	300	6	**161 369 093**	1	5.300	**161 369 113**	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 horizontal (mbar)	Minimum water column for sealing (m)
40	85	59	18		25	15	22	30	20	2
50	105	77	22	95	27	16	27	30	20	2
63	124	92	32	109	29	18	40	30	20	2
75	137	111	40	129	31	20	55	30	20	2
90	175	131	54	144	32	20	67	30	20	2
110	175	153	70	164	31	23	77	30	20	2
140	195	185	92		35	23	94	30	20	2
160	222	198	105	220	41	26	100	30	20	2
225	279	259	154	275	38	34	152	38	20	2
280	340	311	192	330	41	40	180	38	20	2
315	410	347	227	380	41	45	215	38	20	2

Diaphragm valves





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

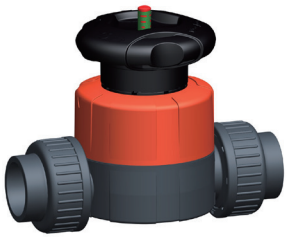
Option:

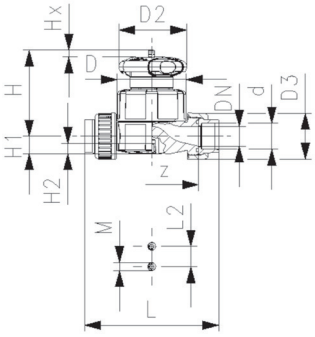
- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches
- PN16 available as a configuration

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	0.525	**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)	FKM 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





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

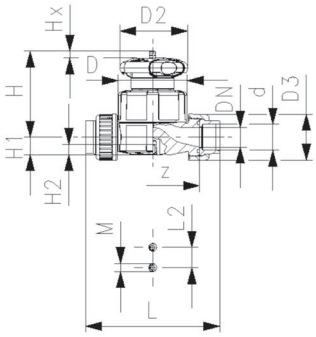
Option:

- 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 (Δp=1 bar) (l/min)	NBR Code	SP	Weight (kg)	EPDM Code	SP	Weight (kg)
16	10	10	125	**161 514 001**	1	0.324	**161 514 011**	1	0.319
20	15	10	125	**161 514 002**	1	0.328	**161 514 012**	1	0.323
25	20	10	271	**161 514 003**	1	0.492	**161 514 013**	1	0.472
32	25	10	481	**161 514 004**	1	0.721	**161 514 014**	1	0.704
40	32	10	759	**161 514 005**	1	1.070	**161 514 015**	1	0.973
50	40	10	1263	**161 514 006**	1	1.643	**161 514 016**	1	1.618
63	50	10	1728	**161 514 007**	1	2.510	**161 514 017**	1	2.484

d (mm)	PTFE/EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)	PTFE/FKM Code	SP	Weight (kg)
16	**161 514 031**	1	0.335	**161 514 061**	1	0.328	**800 047 300**	1	0.331
20	**161 514 032**	1	0.339	**161 514 062**	1	0.332	**800 047 301**	1	0.335
25	**161 514 033**	1	0.506	**161 514 063**	1	0.499	**800 047 303**	1	0.499
32	**161 514 034**	1	0.748	**161 514 064**	1	0.732	**800 047 304**	1	0.731
40	**161 514 035**	1	1.105	**161 514 065**	1	1.087	**800 047 306**	1	1.084
50	**161 514 036**	1	1.679	**161 514 066**	1	1.669	**800 047 308**	1	1.662
63	**161 514 037**	1	2.548	**161 514 067**	1	2.555	**800 047 309**	1	2.547

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	⅜
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 solvent cement sockets metric PN16

Model:

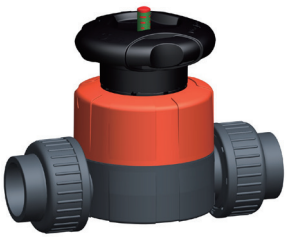
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Not recommended for oxidizing acids
- For easy installation and removal
- Short overall length

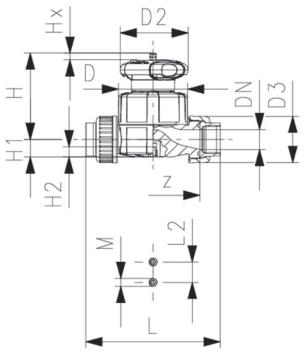
Option:

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

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	PTFE/EPDM Code	SP	Weight (kg)
20	15	16	125	**800 047 166**	1	0.354	**800 047 160**	1	0.370
25	20	16	271	**800 047 167**	1	0.510	**800 047 161**	1	0.544
32	25	16	481	**800 047 168**	1	0.755	**800 047 162**	1	0.799
40	32	16	759	**800 047 169**	1	1.030	**800 047 163**	1	1.162
50	40	16	1263	**800 047 170**	1	1.700	**800 047 164**	1	1.761
63	50	16	1728	**800 047 171**	1	2.612	**800 047 165**	1	2.676

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	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 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 (Δp=1 bar) (l/min)	NBR Code	SP	Weight (kg)	EPDM Code	SP	Weight (kg)
½	15	10	125	**161 514 402**	1	0.400	**161 514 412**	1	0.298
¾	20	10	271	**161 514 403**	1	0.523	**161 514 413**	1	0.426
1	25	10	481	**161 514 404**	1	0.678	**161 514 414**	1	0.679
1 ¼	32	10	759	**161 514 405**	1	1.429	**161 514 415**	1	0.957
1 ½	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

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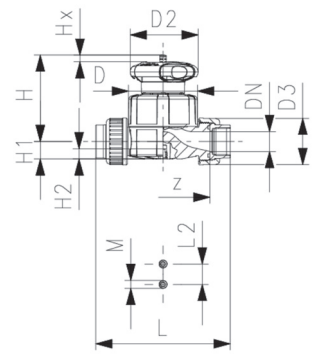
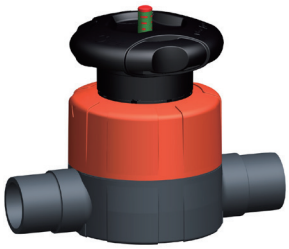


Rp (inch)	PTFE/EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
½	**161 514 432**	1	0.410	**161 514 462**	1	0.400
¾	**161 514 433**	1	0.534	**161 514 463**	1	0.523
1	**161 514 434**	1	0.693	**161 514 464**	1	1.163
1 ¼	**161 514 435**	1	1.449	**161 514 465**	1	1.429
1 ½	**161 514 436**	1	2.558	**161 514 466**	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)
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



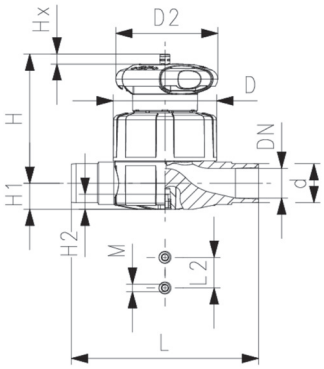
Diaphragm valve type 515 PVC-U
With solvent cement spigots metric

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 (Δp=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	0.445	**161 515 013**	1	0.445
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	0.775
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)	FKM 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	0.445
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

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

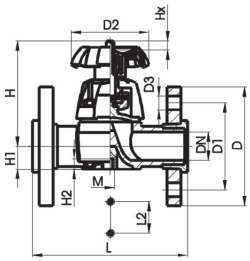
Option:

- Handwheel lockable DN65 (basic version not lockable)

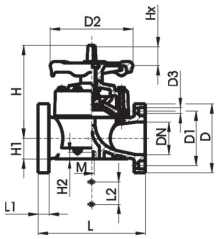
*** DN80, DN100 and DN150 fixed flanges metric and inch ANSI B16.5**

	d (mm)	DN (mm)	Size (inch)	PN (bar)	NBR Code	EPDM Code	FKM Code	PTFE with EPDM supp. diaphragm Code	Weight (kg)
	75	65	2 ½	10	**161 317 608**	**161 317 623**	**161 317 668**	**161 317 638**	4.300
*	90	80	3	10	**161 317 009**	**161 317 024**	**161 317 069**	**161 317 039**	10.251
*	110	100	4	6	**161 317 010**	**161 317 025**	**161 317 070**	**161 317 040**	13.382
*	160	150	6	6	**161 317 012**	**161 317 027**	**161 317 072**	**161 317 042**	35.000

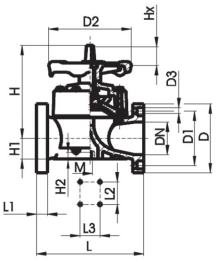
	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	M	Lift = Hx (mm)	AL
	185	140	152	19	201	46	15	290		70		M8	30	4
*	200	160	270	18	265	57	23	310	35	120		M12	40	8
*	225	180	270	18	304	69	23	350	35	120		M12	50	8
*	285	240	400	23	437	108	23	480	26	100	200	M12	70	8



DN 15-65



DN 80-100



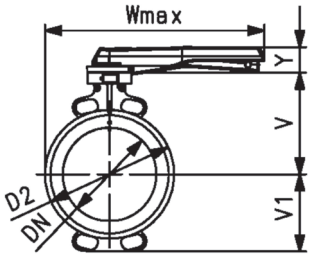
DN 150

Butterfly valves

Wafer-style, intermediate installation butterfly valve type 565 PVDF/PA-GF
With hand lever
Flange standard metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

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

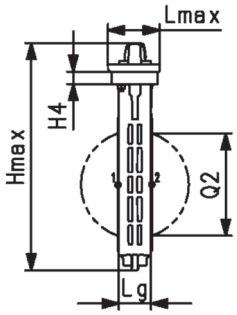


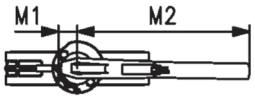
Option:

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

Note:

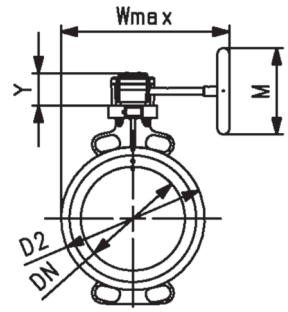
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

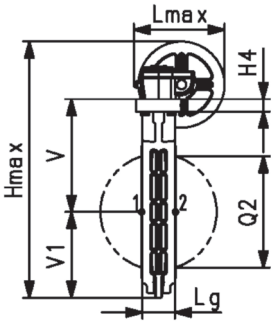


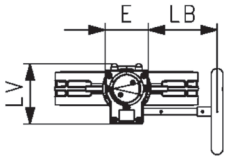


d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	16	1445	**199 565 000**	1	1.3	**199 565 020**	1	1.4
75	2 ½	65	16	2530	**199 565 001**	1	1.5	**199 565 021**	1	1.6
90	3	80	16	4020	**199 565 002**	1	1.7	**199 565 022**	1	1.8
110	4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

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	M1 (mm)	M2 (mm)	Y (mm)	Q2 (mm)
63	100.0	264.0	249.5	96.0	23.0	133.5	63.0	43.0	35.5	204.5	53.0	28.5
75	121.0	271.0	275.5	96.0	23.0	140.0	82.0	46.0	35.5	204.5	53.0	44.0
90	138.0	273.5	288.0	96.0	23.0	146.0	89.0	46.0	35.5	204.5	53.0	63.5
110	158.5	334.0	324.0	96.0	23.0	166.5	104.0	52.0	35.5	254.5	53.0	84.0
140	187.0	348.0	351.0	96.0	23.0	180.0	118.0	56.0	35.5	254.5	53.0	110.5
160	213.0	426.0	372.5	96.0	23.0	189.0	130.5	56.0	35.5	319.5	53.0	137.5
225	267.0	453.0	422.0	96.0	23.0	209.5	159.0	60.0	35.5	319.5	53.0	190.5







Wafer-style intermediate installation butterfly valve type 565 manual PVDF/PA-GF
With gear box
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

Option:

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

Note:

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

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	50	2	16	1445	**199 565 200**	1	3.0	**199 565 220**	1	3.1
75	65	2 ½	16	2530	**199 565 201**	1	3.2	**199 565 221**	1	3.3
90	80	3	16	4020	**199 565 202**	1	3.4	**199 565 222**	1	3.5
110	100	4	16	5850	**199 565 203**	1	4.2	**199 565 223**	1	4.3
140	125	5	16	11900	**199 565 204**	1	4.7	**199 565 224**	1	5.0
160	150	6	16	18050	**199 565 205**	1	5.5	**199 565 225**	1	5.8
225	200	8	10	43667	**199 565 206**	1	6.7	**199 565 226**	1	7.2
280	250	10	10	62333	**199 565 207**	1	12.7	**199 565 227**	1	13.4
315	300	12	6	94500	**199 565 208**	1	16.5	**199 565 228**	1	17.6

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	LB (mm)	LV (mm)	M (mm)	Y (mm)
63	100.0	238.5	303.0	169.0	23	133.5	63.0	43	80	128.0	112.5	160	61.5
75	121.0	246.0	329.0	169.0	23	140.0	82.0	46	80	128.0	112.5	160	61.5
90	138.0	248.5	341.5	169.0	23	146.0	89.0	46	80	128.0	112.5	160	61.5
110	158.5	258.5	377.5	169.0	23	166.5	104.0	52	80	128.0	112.5	160	61.5
140	187.0	272.0	405.0	169.0	23	180.0	118.0	56	80	128.0	112.5	160	61.5
160	213.0	285.5	426.5	169.0	23	189.0	130.5	56	80	128.0	112.5	160	61.5
225	267.0	312.5	475.5	169.0	23	209.5	159.0	60	80	128.0	112.5	160	61.5
280	325.5	360.5	603.0	212.5	23	262.5	195.5	68	100	135.5	130.0	200	68.5
315	380.0	387.5	659.5	212.5	23	284.5	230.5	78	100	135.5	130.0	200	68.5

d (mm)	Q2 (mm)
63	28.5
75	44.0
90	63.5
110	84.0
140	110.5
160	137.5
225	190.5
280	239.0
315	285.5

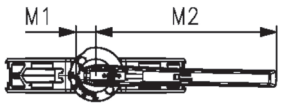
Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With hand lever
Flange standard ANSI / ASTM / ASME
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

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

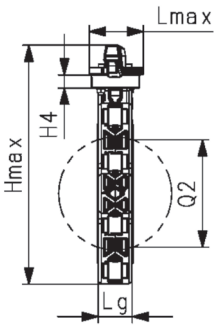
Option:

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

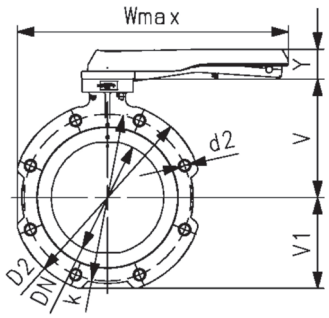


Note:

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



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-100-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	16	1445	**199 576 000**	1.308	**199 576 020**	1.377
75	65	2 ½	16	2530	**199 576 001**	1.542	**199 576 021**	1.644
90	80	3	16	4020	**199 576 002**	1.712	**199 576 022**	1.835
110	100	4	16	5850	**199 576 003**	2.517	**199 576 023**	2.693
140	125	5	16	11900	**199 576 004**	3.086	**199 576 024**	3.346
160	150	6	16	18050	**199 576 005**	4.029	**199 576 025**	4.347
225	200	8	10	43667	**199 576 006**	5.276	**199 576 026**	5.732



d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2 (mm)	D2 (mm)	H4 (mm)
63	50	256.4	96	274.5	133.3	70.1	53	43	28.3	120.7	UNC 5/8	155	23
75	65	273.7	96	285.0	139.9	80.8	53	46	43.8	139.7	UNC 5/8	175	23
90	80	289.9	96	294.5	145.6	91.3	53	46	63.5	152.4	UNC 5/8	190	23
110	100	325.6	96	360.0	166.4	106.2	53	52	83.7	190.5	UNC 5/8	221	23
140	125	353.3	96	374.0	180.0	120.3	53	56	110.4	215.9	UNC 3/4	250	23
160	150	374.4	96	454.5	189.0	132.4	53	56	137.3	241.3	UNC 3/4	277	23
225	200	422.8	96	482.5	209.5	160.3	53	60	191.1	298.5	UNC 3/4	337	23

d (mm)	DN (mm)	M1 (mm)	M2 (mm)
63	50	35.5	204.5
75	65	35.5	204.5
90	80	35.5	204.5
110	100	35.5	204.5
140	125	35.5	204.5
160	150	35.5	319.5
225	200	35.5	319.5

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

Model:

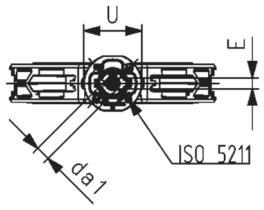
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

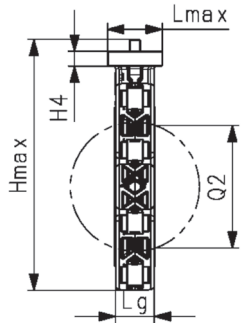
Option:

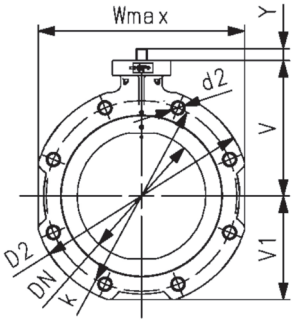
- Individual configuration of the valve possible
- Hand (lockable), pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

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



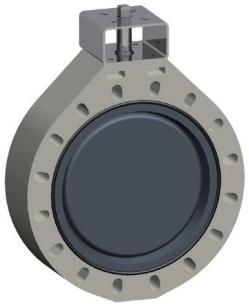


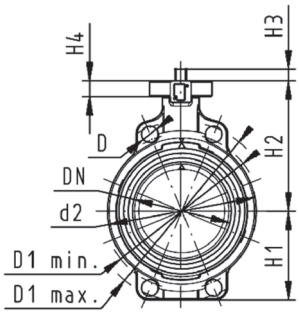


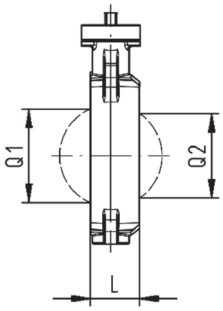
d (mm)	DN (mm)	Size (inch)	PN (bar)	Acc.to ISO 5211	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	16	F07	**199 575 100**	0.881	**199 575 120**	0.950
75	65	2 ½	16	F07	**199 575 101**	1.115	**199 575 121**	1.217
90	80	3	16	F07	**199 575 102**	1.285	**199 575 122**	1.408
110	100	4	16	F07	**199 575 103**	2.024	**199 575 123**	2.200
140	125	5	16	F07	**199 575 104**	2.593	**199 575 124**	2.853
160	150	6	16	F07	**199 575 105**	3.743	**199 575 125**	3.791
225	200	8	10	F07	**199 575 106**	4.720	**199 575 126**	5.176
280	250	10	10	F10	**199 575 107**	8.837	**199 575 127**	9.517
315	300	12	6	F10	**199 575 108**	12.614	**199 575 128**	13.744

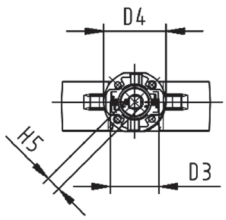
d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2 (mm)	D2 (mm)	H4 (mm)	U (mm)
63	50	230.4	84.8	140	133.3	70.1	27	43	28.3	125	M16	155	23	90
75	65	247.7	84.8	161	139.9	80.8	27	46	43.8	145	M16	175	23	90
90	80	263.9	84.8	180	145.6	91.3	27	46	63.5	160	M16	190	23	90
110	100	288.6	84.8	211	166.4	106.2	16	52	83.7	180	M16	221	23	90
140	125	316.3	84.8	239	180.0	120.3	16	56	110.4	210	M16	250	23	90
160	150	340.4	84.8	263	189.0	132.4	19	56	137.3	240	M20	277	23	90
225	200	388.8	84.8	319	209.5	160.3	19	60	191.1	295	M20	337	23	90
280	250	201.6	125.0	403	262.5	199.1	40	68	238.9	350	M20	403	23	125
315	300	559.8	125.0	482	284.3	235.5	40	78	285.5	400	M20	479	23	125

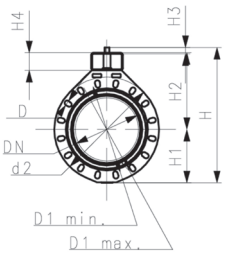
d (mm)	DN (mm)	E (mm)	da1 (mm)
63	50	11	14.1
75	65	11	14.1
90	80	11	14.1
110	100	14	18.1
140	125	14	18.1
160	150	17	22.2
225	200	17	22.2
280	250	22	28.2
315	300	22	28.2











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

Model:

- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Interface F07 for the dimensions DN50-200 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211
- Interface F12 for the Dimensions DN350-400 according to DIN/ISO 5211

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	740	**161 567 802**	1	0.778	**161 567 822**	1	0.787
75	2 ½	65	10	1500	**161 567 803**	1	0.921	**161 567 823**	1	0.895
90	3	80	10	2400	**161 567 804**	1	1.052	**161 567 824**	1	1.068
110	4	100	10	3800	**161 567 805**	1	1.641	**161 567 825**	1	2.092
140	5	125	10	8600	**161 567 806**	1	2.266	**161 567 826**	1	2.236
160	6	150	10	11400	**161 567 807**	1	3.179	**161 567 827**	1	3.238
225	8	200	10	19900	**161 567 808**	1	5.063	**161 567 828**	1	5.127
280	10	250	10	34000	**161 567 809**	1	11.588	**161 567 829**	1	11.735
315	12	300	10	50000	**161 567 810**	1	16.050	**161 567 830**	1	15.936

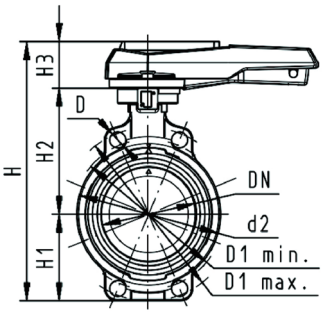
d (mm)	d2 (mm)	D (mm)	D1 min. (mm)	D1 max. (mm)	D3 (mm)	D4 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	L (mm)	L1 (mm)
63	104	19	120	125	70	90	273	77	134	27	23	11	45	78
75	115	19	140	145	70	90	285	83	140	27	23	11	46	78
90	131	19	150	160	70	90	297	89	146	27	23	11	49	78
110	161	19	175	191	70	90	333	104	167	16	23	14	56	78
140	187	23	210	216	70	90	360	117	181	16	23	14	64	78
160	215	24	241	241	70	90	381	130	189	19	23	17	72	78
225	267	23	290	295	70	90	430	158	210	19	23	17	73	78
280	329	25	353	362	102	125	555	205	264	40	23	22	113	69
315	379	25	400	432	102	125	599	228	285	40	23	22	113	69

d (mm)	L2 (mm)	L3 (mm)	L4 (mm)	Q1 (mm)	Q2 (mm)
63	112	179		40	
75	112	179		54	35
90	112	179		67	50
110	112	179		88	74
140	112	179		113	97
160	112	179		139	123
225	112	179		178	169
280	130	198		210	207
315	130	198		256	253

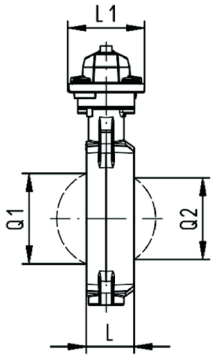
Wafer-style, intermediate installation butterfly valve type 567 PVC-U
With hand lever
Flange standard metric/ANSI/BS/JIS

Model:

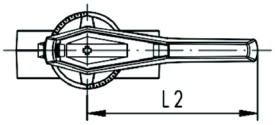
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum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



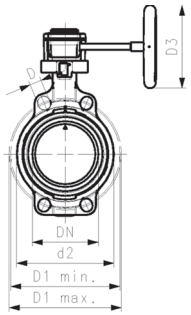
d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	740	**161 567 002**	1	1.653	**161 567 022**	1	1.259
75	2 ½	65	10	1500	**161 567 003**	1	1.352	**161 567 023**	1	1.799
90	3	80	10	2400	**161 567 004**	1	1.515	**161 567 024**	1	1.534
110	4	100	10	3800	**161 567 005**	1	2.193	**161 567 025**	1	2.235
140	5	125	10	8600	**161 567 006**	1	2.536	**161 567 026**	1	2.799
160	6	150	10	11400	**161 567 007**	1	4.268	**161 567 027**	1	3.791
225	8	200	10	19900	**161 567 008**	1	6.481	**161 567 028**	1	6.570
280	10	250	10	34000	**161 567 009**	1	14.328	**161 567 029**	1	12.998
315	12	300	10	50000	**161 567 010**	1	18.899	**161 567 030**	1	19.139

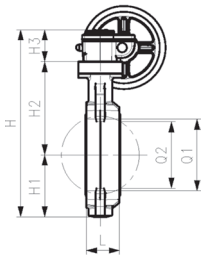


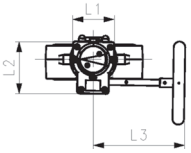
d (mm)	d2 (mm)	D (mm)	D1 min. (mm)	D3 (mm)	D1 max. (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	Q1 (mm)
63	104	19	120.0	160	125.0	265	77	134	54	45	106	205	179	40
75	115	19	139.7	160	145.0	268	83	140	45	46	106	205	179	54
90	131	19	150.0	160	160.0	289	89	146	54	49	106	205	179	67
110	161	19	175.0	160	190.5	326	104	167	55	56	106	255	179	88
140	187	23	210.0	160	215.9	353	117	181	55	64	106	255	179	113
160	215	24	241.3	160	241.3	374	130	189	55	72	106	255	179	139
225	267	23	290.0	160	295.0	435	158	210	67	73	140	408	179	178
280	329	25	353.0	200	362.0	554	205	264	85	113	149	408	198	210
315	379	25	400.0	200	432.0	598	228	285	85	113	149	408	198	256



d (mm)	Q2 (mm)
63	35
75	
90	50
110	74
140	97
160	123
225	169
280	207
315	253







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

Model:

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

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	740	**161 567 042**	1	3.078	**161 567 062**	1	3.082
75	2 ½	65	10	1500	**161 567 043**	1	3.181	**161 567 063**	1	3.186
90	3	80	10	2400	**161 567 044**	1	3.346	**161 567 064**	1	3.353
110	4	100	10	3800	**161 567 045**	1	4.022	**161 567 065**	1	3.973
140	5	125	10	8600	**161 567 046**	1	4.185	**161 567 066**	1	4.544
160	6	150	10	11400	**161 567 047**	1	5.174	**161 567 067**	1	5.181
225	8	200	10	19900	**161 567 048**	1	7.072	**161 567 068**	1	8.339
280	10	250	10	34000	**161 567 049**	1	14.741	**161 567 069**	1	15.115
315	12	300	10	50000	**161 567 050**	1	19.254	**161 567 070**	1	35.000

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	160	273	77	134	62	45	78	112	179	40
75	115	19	140	145	160	285	83	140	62	46	78	112	179	54
90	131	19	150	160	160	297	89	146	62	49	78	112	179	67
110	160	19	175	191	160	333	104	167	62	56	78	112	179	88
140	187	23	210	216	160	360	117	181	62	64	78	112	179	113
160	215	24	241	241	160	381	130	189	62	72	78	112	179	139
225	267	23	290	295	160	430	158	210	62	73	78	112	179	178
280	329	25	353	362	200	538	205	264	69	113	97	130	198	210
315	379	25	400	432	200	582	228	285	69	113	97	130	198	256

d (mm)	Q2 (mm)
63	
75	35
90	50
110	74
140	97
160	123
225	169
280	207
315	253

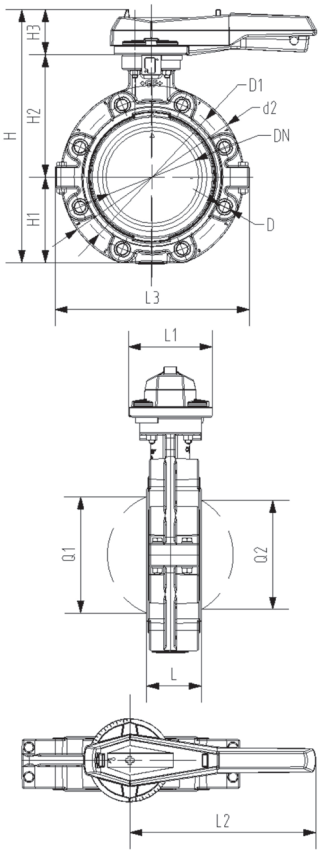
Lug-style, end installation butterfly valve type 578 PVC-U
With hand lever
Flange standard ANSI/ASME

Model:

- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 588, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ANSI/ASME B 16.5 class 150
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

Option:

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



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	740	**161 578 102**	1	1.800	**161 578 122**	1	1.800
75	2 ½	65	10	1500	**161 578 103**	1	1.895	**161 578 123**	1	1.895
90	3	80	10	2400	**161 578 104**	1	2.251	**161 578 124**	1	2.251
110	4	100	10	3800	**161 578 105**	1	3.146	**161 578 125**	1	3.146
140	5	125	10	8600	**161 578 106**	1	4.660	**161 578 126**	1	4.660
160	6	150	10	11400	**161 578 107**	1	6.430	**161 578 127**	1	6.430
200	8	200	10	19900	**161 578 108**	1	8.625	**161 578 128**	1	8.625
250	10	250	10	34000	**161 578 109**	1	19.528	**161 578 129**	1	19.528
315	12	300	10	50000	**161 578 110**	1	26.106	**161 578 130**	1	26.106

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)
160	UNC 5/8	120.6	265	77	134	54	45	106	205	165	40	
180	UNC 5/8	139.7	277	83	140	54	46	106	205	182	54	35
195	UNC 5/8	152.4	289	89	146	54	49	106	205	210	67	50
226	UNC 5/8	190.5	328	106	167	55	56	106	255	240	88	74
258	UNC 3/4	215.9	357	121	181	55	64	106	255	272	113	97
284	UNC 3/4	241.3	377	133	189	55	72	106	255	300	139	123
341	UNC 3/4	298.4	436	159	210	67	73	140	408	360	178	169
412	UNC 7/8	362.0	536	205	264	67	113	140	408	440	210	207
482	UNC 7/8	431.8	586	234	285	67	113	140	408	510	256	253

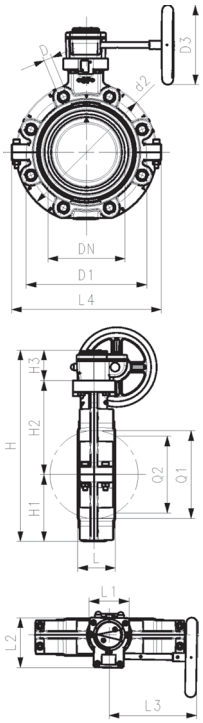
Lug-style, end installation butterfly valve type 578 PVC-U
With gear box
Flange standard ANSI/ASME

Model:

- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 588, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ANSI/ASME B 16.5 class 150

Option:

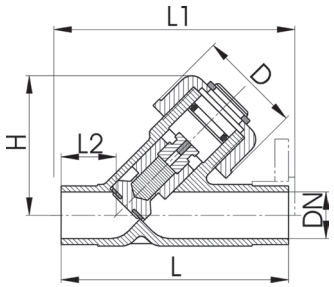
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered seperately)



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	740	**161 578 142**	1	3.522	**161 578 162**	1	3.522
75	2 ½	65	10	1500	**161 578 143**	1	3.672	**161 578 163**	1	3.672
90	3	80	10	2400	**161 578 144**	1	3.929	**161 578 164**	1	3.929
110	4	100	10	3800	**161 578 145**	1	4.834	**161 578 165**	1	4.834
140	5	125	10	8600	**161 578 146**	1	6.348	**161 578 166**	1	6.348
160	6	150	10	11400	**161 578 147**	1	8.109	**161 578 167**	1	8.109
200	8	200	10	19900	**161 578 148**	1	9.353	**161 578 168**	1	9.353
250	10	250	10	34000	**161 578 149**	1	21.210	**161 578 169**	1	21.210
315	12	300	10	50000	**161 578 150**	1	27.746	**161 578 170**	1	27.746

d2 (mm)	D	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	Q1 (mm)	Q2 (mm)
160	UNC 5/8	120.6	273	77	134	62	23	45	78	112	179	165	40	
180	UNC 5/8	139.7	285	83	140	62	23	46	78	112	179	182	54	35
195	UNC 5/8	152.4	297	89	146	62	23	49	78	112	179	210	67	50
226	UNC 5/8	190.5	335	106	167	62	23	56	78	112	179	240	88	74
258	UNC 3/4	215.9	364	121	181	62	23	64	78	112	179	272	113	97
284	UNC 3/4	241.3	384	133	189	62	23	72	78	112	179	300	139	123
341	UNC 3/4	298.4	431	159	210	62	23	73	78	112	179	360	178	169
412	UNC 7/8	362.0	538	205	264	69	23	113	97	130	198	440	210	207
482	UNC 7/8	431.8	588	234	285	69	23	113	97	130	198	510	256	253

Angle Seat Valves



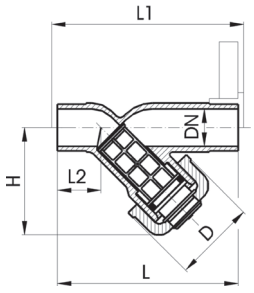
Angle seat check valve type 303 PVC-U
With solvent cement spigots metric

Model:

- For horizontal or vertical installation
- Leakproof from: EPDM 2m, FKM 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	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	10	41	**161 303 005**	1	0.075	**161 303 030**	1	0.094
20	15	10	95	**161 303 006**	1	0.113	**161 303 031**	1	0.132
25	20	10	180	**161 303 007**	1	0.170	**161 303 032**	1	0.172
32	25	10	327	**161 303 008**	1	0.288	**161 303 033**	1	0.290
40	32	10	484	**161 303 009**	1	0.444	**161 303 034**	1	0.448
50	40	10	725	**161 303 010**	1	0.791	**161 303 035**	1	0.798
63	50	10	1130	**161 303 011**	1	1.345	**161 303 036**	1	1.345
75	65	10	1700	**161 303 012**	1	2.483	**161 303 037**	1	2.499
90	80	10	2500	**161 303 013**	1	3.514	**161 303 038**	1	3.540

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	closest inch (inch)
16	39	58	114	120	24	⅜
20	43	65	124	130	28	½
25	47	75	144	150	37	¾
32	56	90	154	160	37	1
40	64	102	174	180	44	1 ¼
50	82	123	194	200	48	1 ½
63	95	144	224	230	60	2
75	92	186	284	290	74	2 ½
90	104	204	300	310	85	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 ø 0,8 mm

Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
½	15	10	**192 306 300**	1	0.104	**192 306 349**	1	0.110
¾	20	10	**192 306 350**	1	0.153	**192 306 399**	1	0.170
1	25	10	**192 306 400**	1	0.307	**192 306 449**	1	0.255
1 ¼	32	10	**192 306 450**	1	0.380	**192 306 499**	1	0.409
1 ½	40	10	**192 306 500**	1	0.682	**192 306 549**	1	0.635
2	50	10	**192 306 550**	1	0.946	**192 306 599**	1	1.000
3	80	10	**192 306 650**	1	2.565	**192 306 699**	1	2.800

Size (inch)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)
½	43	65	143	149	37
¾	47	76	160	166	45
1	56	90	174	180	47

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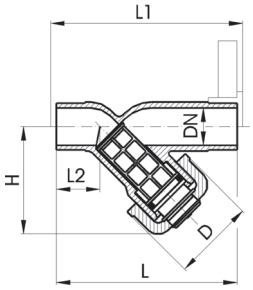


Size (inch)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)
1 ¼	64	104	188	194	53
1 ½	82	124	205	211	54
2	95	148	225	231	63
3	120	205	311	321	90

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	0.005	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

Cylindrical screen type 305 PVC-U
Screen perforations 0.8 mm

- For line strainers Type 305

d (mm)	DN (mm)	Size (inch)	kv-value (Δp=1 bar) (l/min)	Code	SP	Weight (kg)	D (mm)	L (mm)	closest inch (inch)
20	15	½	35	**161 305 338**	10	0.005	14	39	½
25	20	¾	65	**161 305 388**	10	0.007	18	48	¾
32	25	1	90	**161 305 438**	5	0.003	24	60	1
40	32	1 ¼	155	**161 305 488**	1	0.004	30	71	1 ¼
50	40	1 ½	225	**161 305 538**	1	0.030	38	87	1 ½
63	50	2	370	**161 305 588**	2	0.003	48	106	2
75	65	2 ½	575	**161 305 638**	5	0.011	61	100	2 ½
90	80	3	955	**161 305 688**	2	0.015	73	118	3

Cylindrical screen type 305 PVC-U
Screen perforations 1.4 mm

- For line strainers Type 305

d (mm)	DN (mm)	Size (inch)	kv-value (Δp=1 bar) (l/min)	Code	SP	Weight (kg)	D (mm)	L (mm)	closest inch (inch)
20	15	½	35	**161 305 337**	10	0.003	14	39	½
25	20	¾	65	**161 305 387**	10	0.003	18	48	¾
32	25	1	90	**161 305 437**	5	0.003	24	60	1
40	32	1 ¼	155	**161 305 487**	2	0.004	30	71	1 ¼

table continued on the next page

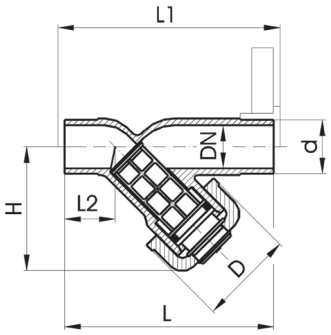
d (mm)	DN (mm)	Size (inch)	kv-value (Δp=1 bar) (l/min)	Code	SP	Weight (kg)	D (mm)	L (mm)	closest inch (inch)
50	40	1 ½	225	**161 305 537**	1	0.005	38	87	1 ½
63	50	2	370	**161 305 587**	2	0.008	48	106	2
75	65	2 ½	575	**161 305 637**	5	0.011	61	100	2 ½
90	80	3	955	**161 305 687**	2	0.013	73	118	3

Cylindrical screen type 305 PVC-U
Screen perforations 2.2 mm

- For line strainers Type 305

d (mm)	DN (mm)	Size (inch)	kv-value (Δp=1 bar) (l/min)	Code	SP	Weight (kg)	D (mm)	L (mm)	closest inch (inch)
20	15	½	35	**161 305 336**	10	0.005	14	39	½
25	20	¾	65	**161 305 386**	10	0.003	18	48	¾
32	25	1	90	**161 305 436**	5	0.003	24	60	1
40	32	1 ¼	155	**161 305 486**	2	0.003	30	71	1 ¼
50	40	1 ½	225	**161 305 536**	1	0.005	38	87	1 ½
63	50	2	370	**161 305 586**	2	0.008	48	106	2
75	65	2 ½	575	**161 305 636**	5	0.010	61	100	2 ½
90	80	3	955	**161 305 686**	2	0.013	73	118	3

Strainers



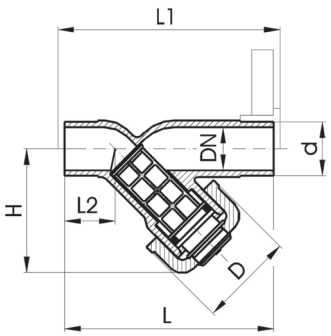
Line strainer type 305 PVC-U
With solvent cement spigots metric

Model:

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

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

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



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

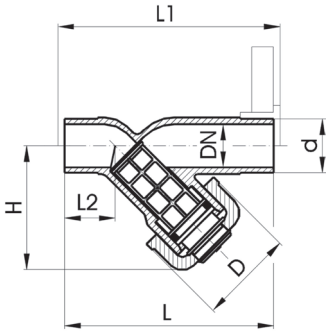
Model:

- 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	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	10	**192 305 300**	1	0.098	**192 305 349**	1	0.100
25	20	10	**192 305 350**	1	0.143	**192 305 399**	1	0.170
32	25	10	**192 305 400**	1	0.227	**192 305 449**	1	0.227
40	32	10	**192 305 450**	1	0.342	**192 305 499**	1	0.346
50	40	10	**192 305 500**	1	0.589	**192 305 549**	1	0.594
63	50	10	**192 305 550**	1	0.970	**192 305 599**	1	0.972
75	65	10	**192 305 600**	1	1.826	**192 305 649**	1	1.838
90	80	10	**192 305 650**	1	2.548	**192 305 699**	1	2.565

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	closest inch (inch)
20	43	65	124	130	28	½
25	47	76	144	150	37	¾
32	56	90	154	160	37	1
40	64	104	174	180	44	1 ¼

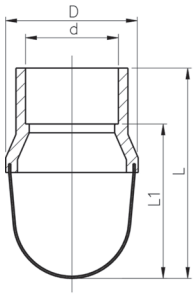
table continued on the next page



d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	closest inch (inch)
50	82	124	194	200	48	1 ½
63	95	148	224	230	60	2
75	106	188	284	290	74	2 ½
90	120	205	300	310	85	3

Screen assemblies

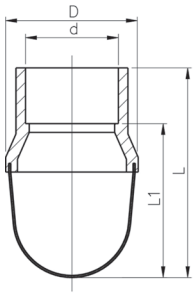
DN 15 - 50



DN 15–50

Screen assembly type 050 PVC-U
With solvent cement sockets metric

d (mm)	Size (inch)	DN (mm)	kv-value (Δp=1 bar) (l/min)	Code	SP	Weight (kg)	D (mm)	L (mm)	L1 (mm)	perforations ø (mm)
20	½	15	105	**161 050 026**	1	0.035	50	80	64	2
25	¾	20	228	**161 050 027**	1	0.039	50	83	64	2
32	1	25	390	**161 050 028**	1	0.046	50	86	64	2
40	1 ¼	32	563	**161 050 029**	1	0.147	90	131	105	2
50	1 ½	40	813	**161 050 030**	1	0.172	90	136	105	2
63	2	50	1590	**161 050 031**	1	0.192	90	143	105	2

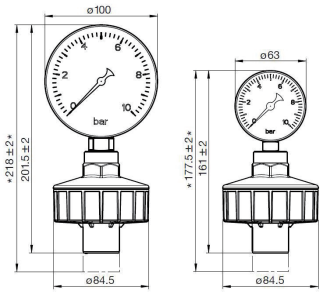


DN 15–50

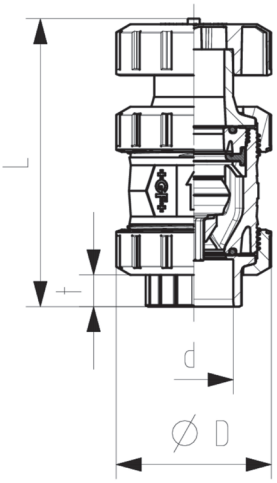
Screen assembly type 050 PVC-U
Complete with barrel nipple metric/ASTM

Size (inch)	DN (mm)	kv-value (Δp=1 bar) (l/min)	Code	SP	Weight (kg)	D (mm)	L (mm)	L1 (mm)	perforations ø (mm)
½	15	105	**161 050 186**	1	0.045	50	64	80	2
¾	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 ¼	32	563	**161 050 189**	1	0.145	90	105	131	2
1 ½	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

Gauge Guards



Process control valves

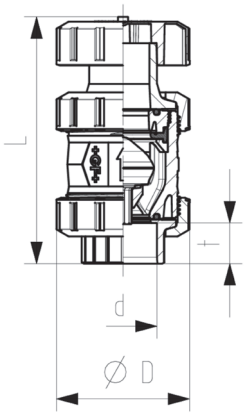


Ventilating and bleed valve
Type 591 PVC-U
With solvent cement sockets Inch BS

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)	DN (mm)	Size (inch)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
	10	⅜	16	**161 591 061**	**161 591 071**	50	118	16	
	15	½	16	**161 591 062**	**161 591 072**	50	124	18	
	20	¾	16	**161 591 063**	**161 591 073**	58	142	21	
	25	1	16	**161 591 064**	**161 591 074**	68	157	24	
	32	1 ¼	16	**161 591 065**	**161 591 075**	84	179	29	
	40	1 ½	16	**161 591 066**	**161 591 076**	97	197	30	
	50	2	16	**161 591 067**	**161 591 077**	124	229	36	
75	65	2 ½	16	**161 591 008**	**161 591 018**	166	258	45	2 ½
	80	3	16	**161 591 069**	**161 591 079**	200	277	51	
	100	4	16	**161 591 070**	**161 591 080**	238	320	64	

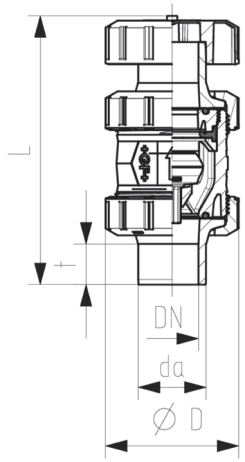


Ventilating and bleed valve
Type 591 PVC-U
With solvent cement sockets metric

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	FKM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	16	**161 591 001**	**161 591 011**	50	118	14	⅜
20	15	16	**161 591 002**	**161 591 012**	50	124	16	½
25	20	16	**161 591 003**	**161 591 013**	58	142	19	¾
32	25	16	**161 591 004**	**161 591 014**	68	157	22	1
40	32	16	**161 591 005**	**161 591 015**	84	179	26	1 ¼
50	40	16	**161 591 006**	**161 591 016**	97	197	31	1 ½
63	50	16	**161 591 007**	**161 591 017**	124	229	38	2
75	65	16	**161 591 008**	**161 591 018**	166	258	45	2 ½
90	80	16	**161 591 009**	**161 591 019**	200	277	52	3
110	100	16	**161 591 010**	**161 591 020**	238	320	64	4

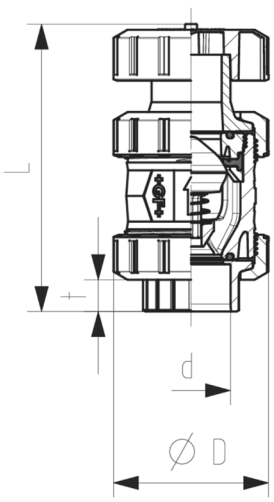


Ventilating and bleed valve
Type 591 PVC-U
With solvent cement spigots metric

Model:

- With protection cap up to DN50 made 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	FKM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	16	**161 591 041**	**161 591 051**	50	129	14	⅜
20	15	16	**161 591 042**	**161 591 052**	50	139	16	½
25	20	16	**161 591 043**	**161 591 053**	58	160	19	¾
32	25	16	**161 591 044**	**161 591 054**	68	172	22	1
40	32	16	**161 591 045**	**161 591 055**	84	193	26	1 ¼
50	40	16	**161 591 046**	**161 591 056**	97	215	31	1 ½
63	50	16	**161 591 047**	**161 591 057**	124	249	38	2
75	65	16	**161 591 048**	**161 591 058**	166	284	44	2 ½
90	80	16	**161 591 049**	**161 591 059**	200	300	52	3
110	100	16	**161 591 050**	**161 591 060**	238	340	61	4

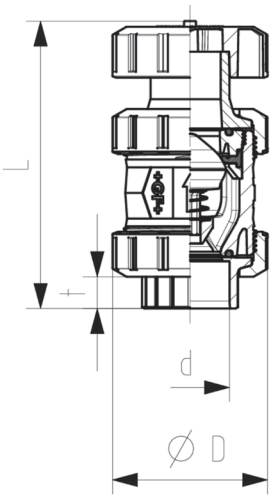


Ventilating valve type 595 PVC-U
With solvent cement sockets Inch BS

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)	DN (mm)	Size (inch)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
	10	⅜	16	**161 595 061**	**161 595 071**	50	118	16	
	15	½	16	**161 595 062**	**161 595 072**	50	124	18	
	20	¾	16	**161 595 063**	**161 595 073**	58	142	21	
	25	1	16	**161 595 064**	**161 595 074**	68	157	24	
	32	1 ¼	16	**161 595 065**	**161 595 075**	84	179	29	
	40	1 ½	16	**161 595 066**	**161 595 076**	97	197	30	
	50	2	16	**161 595 067**	**161 595 077**	124	229	36	
75	65	2 ½	16	**161 595 008**	**161 595 018**	166	258	45	2 ½
	80	3	16	**161 595 069**	**161 595 079**	200	277	51	
	100	4	16	**161 595 070**	**161 595 080**	238	320	64	

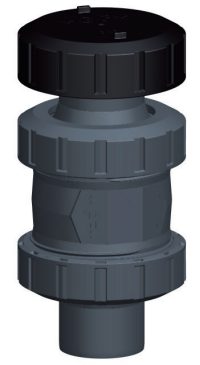


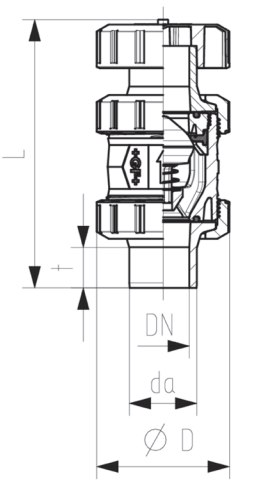
Ventilating valve type 595 PVC-U
With solvent cement sockets metric

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	FKM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	16	**161 595 001**	**161 595 011**	50	118	14	⅜
20	15	16	**161 595 002**	**161 595 012**	50	124	16	½
25	20	16	**161 595 003**	**161 595 013**	58	142	19	¾
32	25	16	**161 595 004**	**161 595 014**	68	157	22	1
40	32	16	**161 595 005**	**161 595 015**	84	179	26	1 ¼
50	40	16	**161 595 006**	**161 595 016**	97	197	31	1 ½
63	50	16	**161 595 007**	**161 595 017**	124	229	38	2
75	65	16	**161 595 008**	**161 595 018**	166	258	45	2 ½
90	80	16	**161 595 009**	**161 595 019**	200	277	52	3
110	100	16	**161 595 010**	**161 595 020**	238	320	64	4





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

Model:

- With protection cap up to DN50 made 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

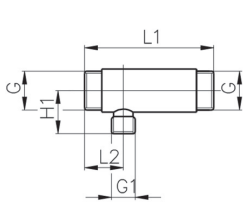
d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	16	**161 595 041**	**161 595 051**	50	129	14	⅜
20	15	16	**161 595 042**	**161 595 052**	50	139	16	½
25	20	16	**161 595 043**	**161 595 053**	58	160	19	¾
32	25	16	**161 595 044**	**161 595 054**	68	172	22	1
40	32	16	**161 595 045**	**161 595 055**	84	193	26	1 ¼
50	40	16	**161 595 046**	**161 595 056**	97	215	31	1 ½
63	50	16	**161 595 047**	**161 595 057**	124	249	38	2
75	65	16	**161 595 048**	**161 595 058**	166	284	44	2 ½
90	80	16	**161 595 049**	**161 595 059**	200	300	52	3
110	100	16	**161 595 050**	**161 595 060**	238	340	61	4

Water jet suction pump type P20 PVC-U

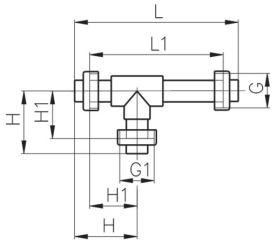
- DN 10-20: BSP parallel female thread and solvent cement socked metric with EPDM o-rings
- DN 25-50: Solvent cement socket metric with EPDM o-rings
- DN 65-80: Solvent cement spigot metric without o-rings

d (mm)	DN (mm)	Size (inch)	PN (bar)	Code	SP	Weight (kg)
16	10	⅜	10	**199 041 120**		0.138
20	15	½	10	**199 041 121**		0.228
25	20	¾	10	**199 041 122**	1	0.363
32	25	1	10	**199 041 123**		0.468
40	32	1 ¼	10	**199 041 124**		0.841
50	40	1 ½	10	**199 041 125**		1.360
63	50	2	10	**199 041 126**	1	2.440
75	65	2 ½	10	**199 041 127**		2.313
90	80	3	10	**199 041 128**	1	4.090

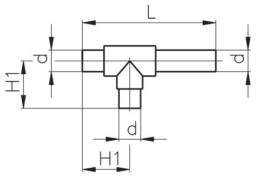
d (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	closest inch (inch)	G1 (inch)	G (inch)
16		35		110	40	⅜	¾	R 3/4
20		35		125	40	½	¾	R 1
25		45		145	45	¾	¾	R 1 1/4
32	96	71	245	195		1	1 ½	R 1 1/2
40	116	87	297	239		1 ¼	2	R 2
50	139	105	369	301		1 ½	2 ¼	R 2 1/4
63	169	128	433	351		2	2 ¾	R 2 3/4
75		115	388			2 ½		
90		149	465			3		



DN 10 – 20



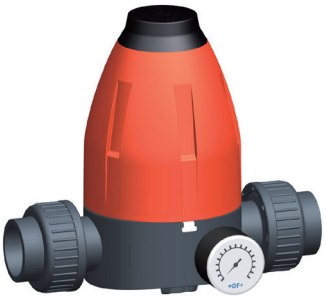
DN 25 – 50



DN 65 – 80

Pressure regulating valves

Pressure reducing valve type 582

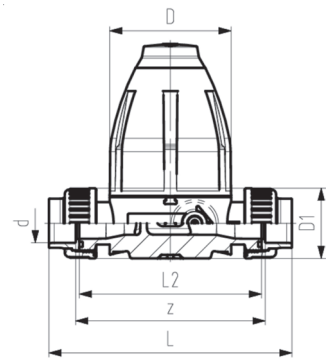


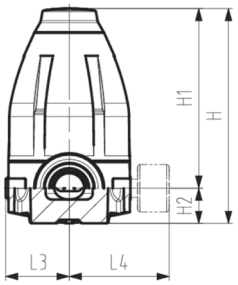
Pressure reducing valve type 582 PVC-U
Unions with solvent cement sockets Inch BS
With manometer

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.

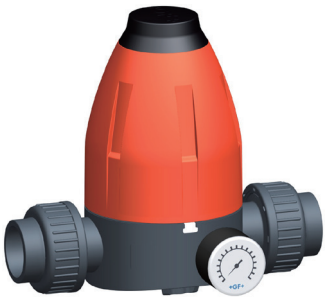
0.3-3.0 bar (4-44 psi) on request





d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	SP	O-rings FKM Code
20	15	½	10	**161 582 322**	0.730	1	**161 582 332**
25	20	¾	10	**161 582 323**	1.520	1	**161 582 333**
32	25	1	10	**161 582 324**	1.550	1	**161 582 334**
40	32	1 ¼	10	**161 582 325**	4.100	1	**161 582 335**
50	40	1 ½	10	**161 582 326**	4.270	1	**161 582 336**
63	50	2	10	**161 582 327**	4.500	1	**161 582 337**

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

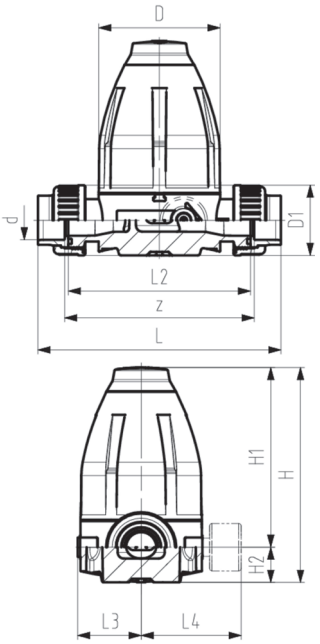


Pressure reducing valve type 582 PVC-U
Unions with solvent cement sockets metric
With manometer

Model:

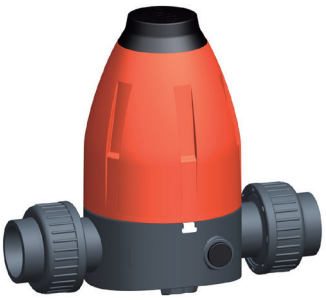
- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)
- Attention: Manometer with brass connection in direct contact with medium. Check for chemical resistance, otherwise chose the optional manometer adapter for media separation.

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



d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	SP	O-rings FKM Code
16	10	⅜	10	**161 582 121**	0.724	1	**161 582 131**
20	15	½	10	**161 582 122**	0.730	1	**161 582 132**
25	20	¾	10	**161 582 123**	1.520	1	**161 582 133**
32	25	1	10	**161 582 124**	1.550	1	**161 582 134**
40	32	1 ¼	10	**161 582 125**	4.100	1	**161 582 135**
50	40	1 ½	10	**161 582 126**	4.270	1	**161 582 136**
63	50	2	10	**161 582 127**	4.500	1	**161 582 137**

d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	L4 (mm)	M	z (mm)	closest inch (inch)
16	79	43	132	111	21	12	200	120	42	77	M6	172	⅜
20	79	43	132	111	21	12	158	120	42	77	M6	126	½
25	100	51	177	148	29	14	194	150	53	88	M6	156	¾
32	100	58	177	148	29	14	200	150	53	88	M6	156	1
40	147	72	251	207	44	21	263	205	76	111	M8	211	1 ¼
50	147	83	251	207	44	21	273	205	76	111	M8	211	1 ½
63	147	101	251	207	44	21	287	205	76	111	M8	211	2

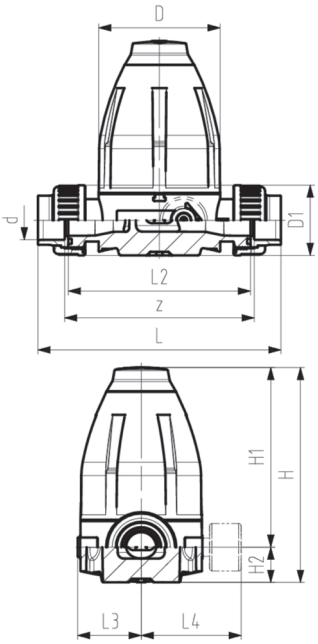


Pressure reducing valve type 582 PVC-U
Unions with solvent cement sockets Inch BS
Without manometer

Model:

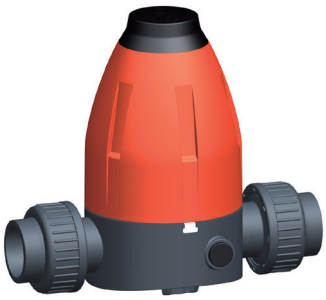
- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

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



d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	SP	O-rings FKM Code
20	15	½	10	**161 582 302**	0.700	1	**161 582 312**
25	20	¾	10	**161 582 303**	1.490	1	**161 582 313**
32	25	1	10	**161 582 304**	1.520	1	**161 582 314**
40	32	1 ¼	10	**161 582 305**	4.070	1	**161 582 315**
50	40	1 ½	10	**161 582 306**	4.240	1	**161 582 316**
63	50	2	10	**161 582 307**	4.470	1	**161 582 317**

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

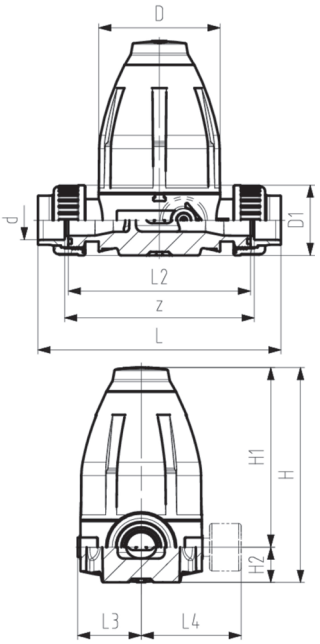


Pressure reducing valve type 582 PVC-U
Unions with solvent cement sockets metric
Without manometer

Model:

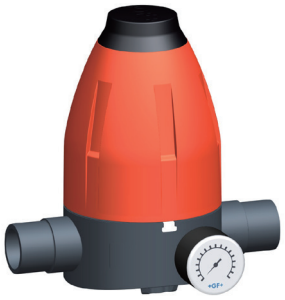
- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

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



d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	SP	GP	O-rings FKM Code
16	10	⅜	10	**161 582 101**	0.694	1		**161 582 111**
20	15	½	10	**161 582 102**	0.700	1	6	**161 582 112**
25	20	¾	10	**161 582 103**	1.490	1		**161 582 113**
32	25	1	10	**161 582 104**	1.520	1		**161 582 114**
40	32	1 ¼	10	**161 582 105**	4.070	1		**161 582 115**
50	40	1 ½	10	**161 582 106**	4.240	1		**161 582 116**
63	50	2	10	**161 582 107**	4.470	1		**161 582 117**

d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	M	z (mm)	closest inch (inch)
16	79	43	132	111	21	12	200	120	42	M6	172	⅜
20	79	43	132	111	21	12	158	120	42	M6	126	½
25	100	51	177	148	29	14	194	150	53	M6	156	¾
32	100	58	177	148	29	14	200	150	53	M6	156	1
40	147	72	251	207	44	21	263	205	76	M8	211	1 ¼
50	147	83	251	207	44	21	273	205	76	M8	211	1 ½
63	147	101	251	207	44	21	287	205	76	M8	211	2

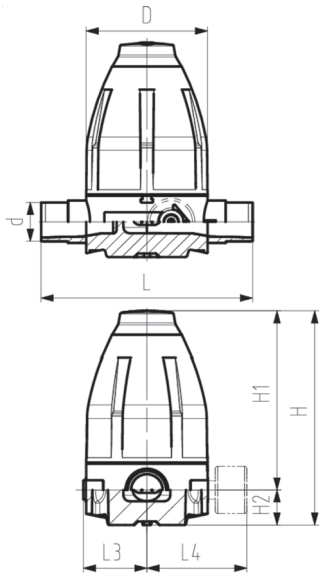


Pressure reducing valve type 582 PVC-U
With solvent cement spigots metric
With manometer

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.

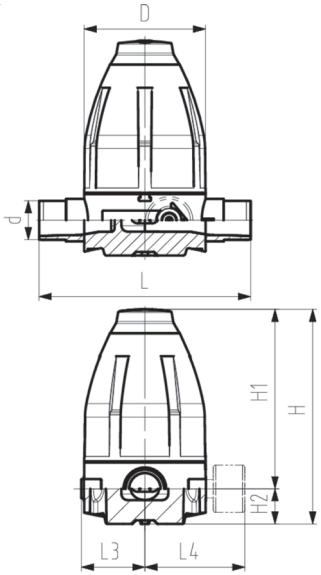
0.3-3.0 bar (4-44 psi) on request



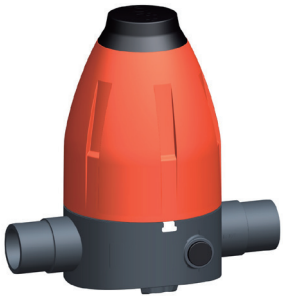
d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	SP	O-rings FKM Code
16	10	⅜	10	**161 582 021**	0.650	1	**161 582 031**
20	15	½	10	**161 582 022**	0.660	1	**161 582 032**
25	20	¾	10	**161 582 023**	1.430	1	**161 582 033**
32	25	1	10	**161 582 024**	1.440	1	**161 582 034**
40	32	1 ¼	10	**161 582 025**	3.960	1	**161 582 035**
50	40	1 ½	10	**161 582 026**	3.970	1	**161 582 036**
63	50	2	10	**161 582 027**	4.040	1	**161 582 037**

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L3 (mm)	L4 (mm)	M	closest inch (inch)
16	79	132	111	21	12	134	42	77	M6	⅜
20	79	132	111	21	12	134	42	77	M6	½
25	100	177	148	29	14	174	53	88	M6	¾

table continued on the next page



d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L3 (mm)	L4 (mm)	M	closest inch (inch)
32	100	177	148	29	14	174	53	88	M6	1
40	147	251	207	44	21	224	76	111	M8	1 ¼
50	147	251	207	44	21	224	76	111	M8	1 ½
63	147	251	207	44	21	244	76	111	M8	2

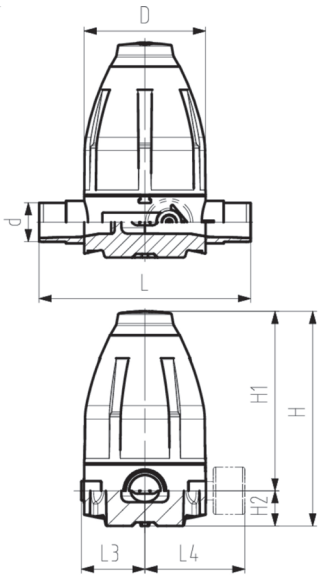


Pressure reducing valve type 582 PVC-U
With solvent cement spigots metric
Without manometer

Model:

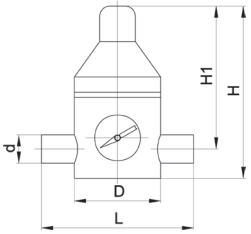
- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

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



d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	GP	O-rings FKM Code	SP
16	10	⅜	10	**161 582 001**	0.620	1	**161 582 011**	1
20	15	½	10	**161 582 002**	0.630		**161 582 012**	1
25	20	¾	10	**161 582 003**	1.400		**161 582 013**	1
32	25	1	10	**161 582 004**	1.410		**161 582 014**	1
40	32	1 ¼	10	**161 582 005**	3.930		**161 582 015**	1
50	40	1 ½	10	**161 582 006**	3.940		**161 582 016**	1
63	50	2	10	**161 582 007**	4.010		**161 582 017**	1

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L3 (mm)	M	closest inch (inch)
16	79	132	111	21	12	134	42	M6	⅜
20	79	132	111	21	12	134	42	M6	½
25	100	177	148	29	14	174	53	M6	¾
32	100	177	148	29	14	174	53	M6	1
40	147	251	207	44	21	224	76	M8	1 ¼
50	147	251	207	44	21	224	76	M8	1 ½
63	147	251	207	44	21	244	76	M8	2



Pressure reducing valve type V182/82 PVC-U
With solvent cement spigots metric

Type	d (mm)	DN (mm)	Size (inch)	PN (bar)	EPDM Code	Weight (kg)	PTFE Code
V82	75	65	2 ½	6	**199 041 019**	11.685	**199 041 029**
V82	90	80	3	6	**199 041 020**	19.630	**199 041 030**
V82	110	100	4	4	**199 041 021**	31.640	**199 041 031**

D (mm)	H (mm)	H1 (mm)	L (mm)	closest inch (inch)	Pressure setting range (bar)	PN
200	350	250	300	2 ½	0.5 - 5.0	6
250	425	305	360	3	0.5 - 5.0	6
300	495	345	420	4	1.0 - 3.0	4

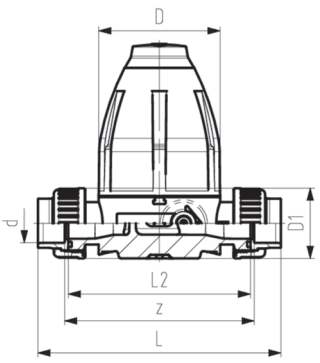
Pressure retaining valve type 586

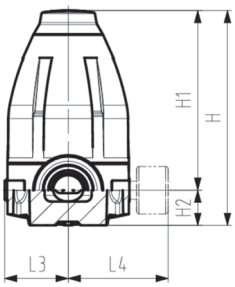
Pressure retaining valve type 586 PVC-U
Unions with solvent cement sockets Inch BS
Without manometer

Model:

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

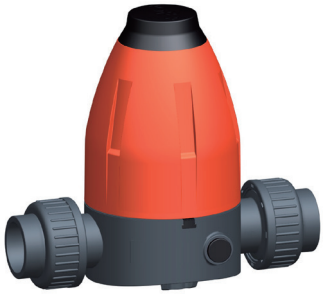
0.3-3.0 bar (4-44 psi) on request
Manometer on request





d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	SP	GP	O-rings FKM Code
20	15	½	10	**161 586 302**	0.690	1	6	**161 586 312**
25	20	¾	10	**161 586 303**	1.510	1		**161 586 313**
32	25	1	10	**161 586 304**	1.540	1		**161 586 314**
40	32	1 ¼	10	**161 586 305**	4.200	1		**161 586 315**
50	40	1 ½	10	**161 586 306**	4.260	1		**161 586 316**
63	50	2	10	**161 586 307**	4.500	1		**161 586 317**

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

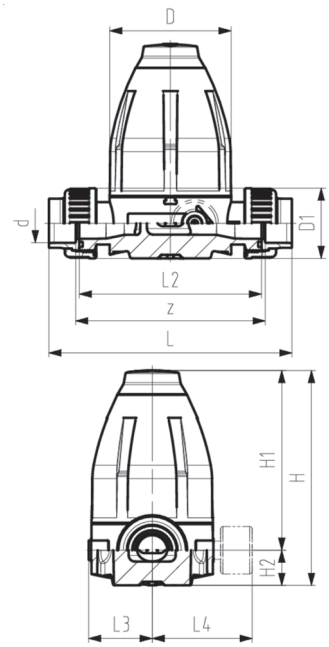


Pressure retaining valve type 586 PVC-U
Unions with solvent cement sockets metric
Without manometer

Model:

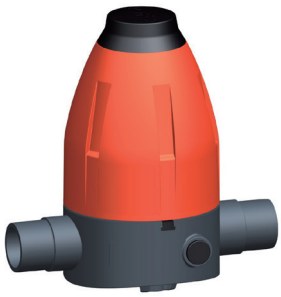
- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

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



d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	SP	GP	O-rings FKM Code
16	10	⅜	10	**161 586 101**	0.694	1	1	**161 586 111**
20	15	½	10	**161 586 102**	0.690	1	6	**161 586 112**
25	20	¾	10	**161 586 103**	1.510	1		**161 586 113**
32	25	1	10	**161 586 104**	1.540	1		**161 586 114**
40	32	1 ¼	10	**161 586 105**	4.200	1		**161 586 115**
50	40	1 ½	10	**161 586 106**	4.260	1		**161 586 116**
63	50	2	10	**161 586 107**	4.500	1		**161 586 117**

d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	M	z (mm)	closest inch (inch)
16	79	43	132	111	21	12	200	120	42	M6	172	⅜
20	79	43	132	111	21	12	158	120	42	M6	126	½
25	100	51	177	148	29	14	194	150	53	M6	156	¾
32	100	58	177	148	29	14	200	150	53	M6	156	1
40	147	72	251	207	44	21	263	205	76	M8	211	1 ¼
50	147	83	251	207	44	21	273	205	76	M8	211	1 ½
63	147	101	251	207	44	21	287	205	76	M8	211	2

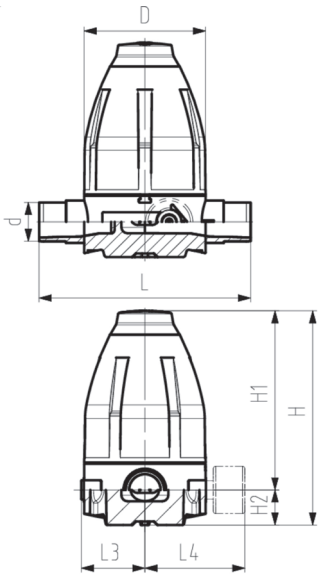


Pressure retaining valve type 586 PVC-U
With solvent cement spigots metric
Without manometer

Model:

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

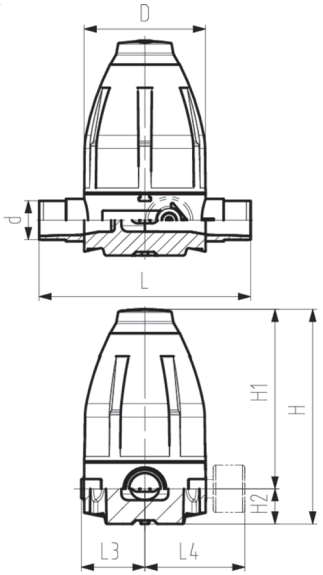
0.3-3.0 bar (4-44 psi) on request
Manometer on request



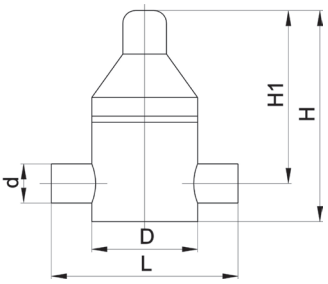
d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	SP	O-rings FKM Code
16	10	⅜	10	**161 586 001**	0.620	1	**161 586 011**
20	15	½	10	**161 586 002**	0.620	1	**161 586 012**
25	20	¾	10	**161 586 003**	1.420	1	**161 586 013**
32	25	1	10	**161 586 004**	1.430	1	**161 586 014**
40	32	1 ¼	10	**161 586 005**	3.960	1	**161 586 015**
50	40	1 ½	10	**161 586 006**	3.960	1	**161 586 016**
63	50	2	10	**161 586 007**	4.040	1	**161 586 017**

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L3 (mm)	M	closest inch (inch)
16	79	132	111	21	12	134	42	M6	⅜
20	79	132	111	21	12	134	42	M6	½
25	100	177	148	29	14	174	53	M6	¾

table continued on the next page



d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L3 (mm)	M	closest inch (inch)
32	100	177	148	29	14	174	53	M6	1
40	147	251	207	44	21	224	76	M8	1 ¼
50	147	251	207	44	21	224	76	M8	1 ½
63	147	251	207	44	21	244	76	M8	2



Pressure retaining valve type V186/86 PVC-U
With solvent cement spigots metric

d (mm)	DN (mm)	Size (inch)	PN (bar)	Type	EPDM Code	Weight (kg)	PTFE Code	Weight (kg)
75	65	2 ½	6	V86	**199 041 950**	7.700	**199 041 990**	7.700
90	80	3	6	V86	**199 041 988**	17.700	**199 041 991**	17.700
110	100	4	4	V86	**199 041 953**	19.600	**199 041 945**	19.600

d (mm)	D (mm)	H (mm)	H1 (mm)	L (mm)	closest inch (inch)	Pressure set-ting range (bar)	PN
75	180	275	230	284	2 ½	1.0 - 6.0	6
90	250	410	320	360	3	1.0 - 6.0	6
110	250	485	415	380	4	1.0 - 4.0	4

Spare parts

Manometer

Model:

- Display with double scale: 0-4 bar / 0-58 psi, size: ø 40mm
- Display with double scale: 0-10bar / 0-150psi, size: ø 40mm
- Connection G 1/4 center back mount

DN (mm)	Material	EPDM/FKM 0-10bar Code	FKM white (HP) 0-10bar Code	EPDM/FKM 0-4bar Code
10-50	Brass	**198 806 651**	**198 806 655**	**198 806 963**
10-50	Stainless Steel	**198 806 652**	**198 806 656**	**198 806 962**

SYGEF Standard Manometer Adapter
For pressure regulating valves type 582/586

Model:

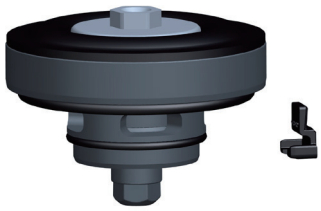
- Material: PVDF
- For media separation from pressure gauge to process medium
- PTFE/EPDM Manometer diaphragm
- *EPDM and FKM O-Ring included in Set

DN (mm)	EPDM/FKM Code	FKM white (HP) Code
10-50	**198 806 650**	**198 806 654**

Cartridge type 582

DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	PP-H EPDM Code	PP-H FKM Code
10-15	**161 489 131**	**161 489 231**	**163 489 131**	**163 489 231**	**167 489 131**	**167 489 231**
20-25	**161 489 133**	**161 489 233**	**163 489 133**	**163 489 233**	**167 489 133**	**167 489 233**
32-50	**161 489 136**	**161 489 236**	**163 489 136**	**163 489 236**	**167 489 136**	**167 489 236**

DN (mm)	PVDF FKM Code	PVDF HP FKM Code
10-15	**185 489 131**	**180 489 131**
20-25	**185 489 133**	**180 489 133**
32-50	**185 489 136**	**180 489 136**

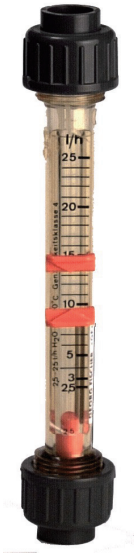


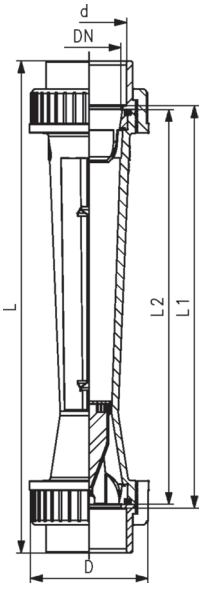
Cartridge type 586

DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	PP-H EPDM Code	PP-H FKM Code
10-15	**161 489 161**	**161 489 261**	**163 489 161**	**163 489 261**	**167 489 161**	**167 489 261**
20-25	**161 489 163**	**161 489 263**	**163 489 163**	**163 489 263**	**167 489 163**	**167 489 263**
32-50	**161 489 166**	**161 489 266**	**163 489 166**	**163 489 266**	**167 489 166**	**167 489 266**

DN (mm)	PVDF FKM Code
10-15	**185 489 161**
20-25	**185 489 163**
32-50	**185 489 166**

Variable Area Flow Meters





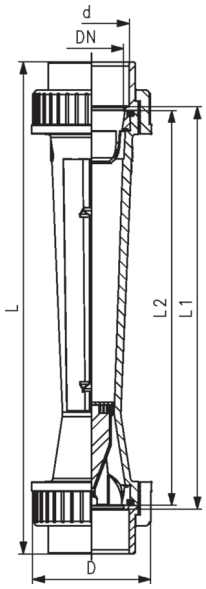
Short version
Float in PVDF without magnet
With solvent cement sockets PVC-U metric

Model:

- Union nuts and valve ends in other materials on request

d (mm)	DN (mm)	Size (inch)	Type	Scale range (l/h)	Taper tube in Polysulfone O-rings in EPDM Code	Weight (kg)	Taper tube in PVC-U transp. O-rings in EPDM Code	Weight (kg)
16	10	⅜	SK 50	2.5 - 25.0	**198 801 880**	0.083	**198 803 310**	0.081
16	10	⅜	SK 51	5.0 - 50.0	**198 801 881**	0.078	**198 803 311**	0.079
16	10	⅜	SK 52	10.0 - 100.0	**198 801 882**	0.079	**198 803 312**	0.079
20	15	½	SK 60	8.0 - 80.0	**198 801 883**	0.125	**198 803 313**	0.127
20	15	½	SK 61	15.0 - 150.0	**198 801 884**	0.122	**198 803 314**	0.130
20	15	½	SK 62	20.0 - 200.0	**198 801 885**	0.119	**198 803 315**	0.125
32	25	1	SK 70	15.0 - 150.0	**198 801 886**	0.247	**198 803 316**	0.256
32	25	1	SK 71	30.0 - 300.0	**198 801 887**	0.244	**198 803 317**	0.254
32	25	1	SK 72	50.0 - 500.0	**198 801 888**	0.285	**198 803 318**	0.244
32	25	1	SK 73	100.0 - 1000.0	**198 801 889**	0.234	**198 803 319**	0.242

D (mm)	L (mm)	L1 (mm)	L2 (mm)	G (inch)
35	199	171	165	¾
35	199	171	165	¾
35	199	171	165	¾
43	223	191	185	1
43	223	191	185	1
43	223	191	185	1
60	250	206	200	1 ½
60	250	206	200	1 ½
60	250	206	200	1 ½
60	250	206	200	1 ½



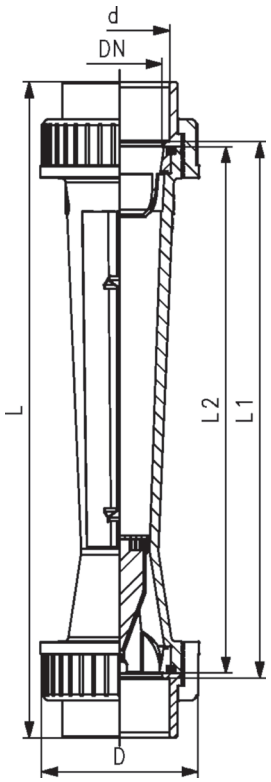
Short version
Float in PVDF with magnet
With solvent cement sockets PVC-U metric

Model:

- Suitable limit switches see accessories for variable area flow meters
- Union nuts and valve ends in other materials on request

d (mm)	DN (mm)	Size (inch)	Scale range (l/h)	Type	Taper tube in Polysulfone O-rings in EPDM Code	Weight (kg)	Taper tube in PVC-U transp. O-rings in EPDM Code	Weight (kg)
16	10	⅜	2.5 - 25.0	SK 500	**198 801 890**	0.079	**198 803 320**	0.081
16	10	⅜	5.0 - 50.0	SK 510	**198 801 891**	0.102	**198 803 321**	0.080
16	10	⅜	10.0 - 100.0	SK 520	**198 801 892**	0.075	**198 803 322**	0.079
20	15	½	8.0 - 80.0	SK 600	**198 801 893**	0.123	**198 803 323**	0.129
20	15	½	15.0 - 150.0	SK 610	**198 801 894**	0.121	**198 803 324**	0.160
20	15	½	20.0 - 200.0	SK 620	**198 801 895**	0.119	**198 803 325**	0.125
32	25	1	15.0 - 150.0	SK 700	**198 801 896**	0.248	**198 803 326**	0.301
32	25	1	30.0 - 300.0	SK 710	**198 801 897**	0.289	**198 803 327**	0.255
32	25	1	50.0 - 500.0	SK 720	**198 801 898**	0.241	**198 803 328**	0.248
32	25	1	100.0 - 1000.0	SK 730	**198 801 899**	0.280	**198 803 329**	0.242

D (mm)	L (mm)	L1 (mm)	L2 (mm)	G (inch)
35	199	171	165	¾
35	199	171	165	¾
35	199	171	165	¾
43	223	191	185	1
43	223	191	185	1
43	223	191	185	1
60	250	206	200	1 ½
60	250	206	200	1 ½
60	250	206	200	1 ½
60	250	206	200	1 ½



Variable area flow meter type 335
Float in PVDF without magnet
With solvent cement sockets PVC-U metric
O-rings in EPDM

Model:

- Standard guiding rod PVDF with stainless steel core (V4A) for DN50 and DN65

Option:

- 4-20 mA sensor
- Limit contacts
- Special scales for different media
- Union nuts and connecting parts in other materials on request

Scale range (l/h)	d (mm)	DN (mm)	Size (inch)	Taper tube in PVC-U transp. O-rings in EPDM Code	Weight (kg)	Taper tube in Polyamid O-rings in EPDM Code	Weight (kg)
50 - 500	32	25	1	**199 335 000**	0.564	**199 335 020**	0.522
100 - 1000	32	25	1	**199 335 001**	0.473	**199 335 021**	0.423
150 - 1500	40	32	1 ¼	**199 335 002**	0.626	**199 335 022**	0.567
250 - 2500	40	32	1 ¼	**199 335 003**	0.706	**199 335 023**	0.620
200 - 2000	50	40	1 ½	**199 335 004**	0.972	**199 335 024**	0.885
300 - 3000	50	40	1 ½	**199 335 005**	0.952	**199 335 025**	0.874
600 - 6000	50	40	1 ½	**199 335 006**	1.019	**199 335 026**	0.840
600 - 6000	63	50	2	**199 335 007**	1.357	**199 335 027**	1.381
1000 - 10000	63	50	2	**199 335 008**	1.299	**199 335 028**	1.196
1500 - 15000	63	50	2	**199 335 009**	1.301	**199 335 029**	1.355
2000 - 20000	75	65	2 ½	**199 335 010**	2.513	**199 335 030**	2.536
3000 - 30000	75	65	2 ½	**199 335 011**	2.442	**199 335 031**	2.286
8000 - 60000	75	65	2 ½	**199 335 012**	2.293	**199 335 032**	2.333

Scale range (l/h)	Taper tube in Polysulfone O-rings in EPDM Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	G (inch)
50 - 500	**199 335 040**	0.464	58	385	341	335	1 ½
100 - 1000	**199 335 041**	0.528	58	385	341	335	1 ½
150 - 1500	**199 335 042**	0.698	72	393	341	335	2
250 - 2500	**199 335 043**	0.561	72	393	341	335	2
200 - 2000	**199 335 044**	1.057	83	403	341	335	2 ¼
300 - 3000	**199 335 045**	1.038	83	403	341	335	2 ¼
600 - 6000	**199 335 046**	0.991	83	403	341	335	2 ¼
600 - 6000	**199 335 047**	1.307	101	417	341	335	2 ¾
1000 - 10000	**199 335 048**	1.252	101	417	341	335	2 ¾
1500 - 15000	**199 335 049**	1.302	101	417	341	335	2 ¾
2000 - 20000	**199 335 050**	2.639	135	429	341	335	3 ½
3000 - 30000	**199 335 051**	2.572	135	429	341	335	3 ½
8000 - 60000	**199 335 052**	2.432	135	429	341	335	3 ½

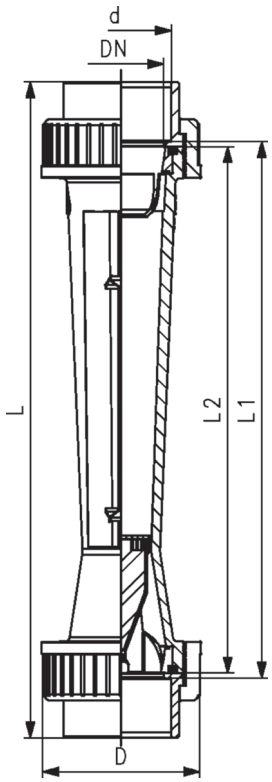
Variable area flow meter type 335
Float in PVDF with magnet
With solvent cement sockets PVC-U metric
O-rings in EPDM

Model:

- Standard guiding rod PVDF with stainless steel core (V4A) for DN50 and DN65

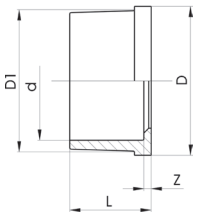
Option:

- 4-20 mA sensor
- Limit contacts
- Special scales for different media
- Union nuts and connecting parts in other materials on request



d (mm)	DN (mm)	Size (inch)	Scale range (l/h)	Taper tube in PVC-U transp. O-rings in EPDM Code	Weight (kg)	Taper tube in Polyamid O-rings in EPDM Code	Weight (kg)
32	25	1	50 - 500	**199 335 100**	0.469	**199 335 120**	0.434
32	25	1	100 - 1000	**199 335 101**	0.547	**199 335 121**	0.423
40	32	1 ¼	150 - 1500	**199 335 102**	0.630	**199 335 122**	0.568
40	32	1 ¼	250 - 2500	**199 335 103**	0.714	**199 335 123**	0.547
50	40	1 ½	200 - 2000	**199 335 104**	0.973	**199 335 124**	0.887
50	40	1 ½	300 - 3000	**199 335 105**	0.952	**199 335 125**	0.874
50	40	1 ½	600 - 6000	**199 335 106**	1.024	**199 335 126**	0.836
63	50	2	600 - 6000	**199 335 107**	1.342	**199 335 127**	1.240
63	50	2	1000 - 10000	**199 335 108**	1.303	**199 335 128**	1.190
63	50	2	1500 - 15000	**199 335 109**	1.297	**199 335 129**	1.351
75	65	2 ½	2000 - 20000	**199 335 110**	2.508	**199 335 130**	2.378
75	65	2 ½	3000 - 30000	**199 335 111**	2.477	**199 335 131**	2.472
75	65	2 ½	8000 - 60000	**199 335 112**	2.294	**199 335 132**	2.150

Taper tube in Polysulfone O-rings in EPDM Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	G (inch)
199 335 140	0.466	58	385	341	335	1 ½
199 335 141	0.452	58	385	341	335	1 ½
199 335 142	0.604	72	393	341	335	2
199 335 143	0.585	72	393	341	335	2
199 335 144	0.944	83	403	341	335	2 ¼
199 335 145	1.035	83	403	341	335	2 ¼
199 335 146	0.881	83	403	341	335	2 ¼
199 335 147	1.360	101	417	341	335	2 ¾
199 335 148	1.248	101	417	341	335	2 ¾
199 335 149	1.409	101	417	341	335	2 ¾
199 335 150	2.441	135	429	341	335	3 ½
199 335 151	2.377	135	429	341	335	3 ½
199 335 152	2.150	135	429	341	335	3 ½

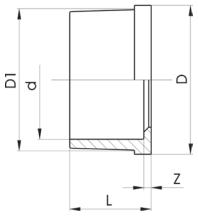


Union end PVC-U BS

Model:

- Solvent cement socket BS inch

d (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	D1 (mm)	L (mm)
⅜	15	**721 601 105**	2000	0.003	3	24	22	19
½	15	**721 601 106**	2300	0.007	3	30	27	21
¾	15	**721 601 107**	1400	0.013	3	38	36	24
1	15	**721 601 108**	1000	0.019	3	44	41	27
1 ¼	15	**721 601 109**	500	0.033	3	56	53	32
1 ½	15	**721 601 110**	400	0.043	3	62	59	33
2	15	**721 601 111**	170	0.077	3	78	74	40
2 ½	10	**721 500 162**	20	0.140	3	101	90	47
3	9	**721 601 113**		0.196	6	110	105	56

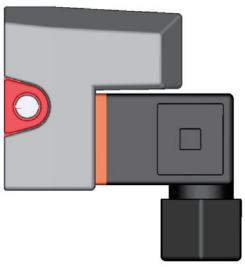


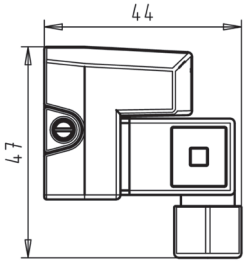
Union end PVC-U ASTM

Model:

- With solvent cement socket ASTM

Size (inch)	PN (bar)	d (inch)	Code	SP	Weight (kg)	z (mm)	D (mm)	D1 (mm)	L (mm)
⅜	16	⅜	**721 602 005**	2000	0.005	3	24	22	22
½	16	½	**721 602 006**	1700	0.009	3	30	28	25
¾	16	¾	**721 602 007**	950	0.020	3	39	36	28
1	16	1	**721 602 008**	700	0.023	3	45	42	32
1 ¼	16	1 ¼	**721 602 009**	500	0.034	3	57	53	35
1 ½	16	1 ½	**721 602 010**	300	0.047	3	63	59	38
2	16	2	**721 602 011**	250	0.075	3	78	74	41
2 ½	10	2 ½	**721 602 012**	110	0.164	3	101	90	47
3	10	3	**721 602 013**	50	0.255	5	121	108	56
3 ½	10	3 ½	**721 602 014**	30	0.334	5	146	131	66





Accessories for variable area flow meter
Limit contacts GK10/GK11
For type 335/350 and short version

Type	Code	Weight (kg)
GK10 (min.)	**198 335 998**	0.035
GK11 (max.)	**198 335 999**	0.034

Injection Quills

Injection Quill 546 PVC-U

Model:

- PN16 Pressure Rating (dependent on pipe pressure rating)
- Lockable or with limit switches as option
- Compliance: 3.1b certificates for Ball Valve 546

Note:

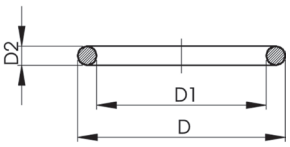
Application: chemical dosing
Fully serviceable
Locally fabricated with short turnaround
Options in different sizes and materials to suit the applications (refer to ChemRes PLUS chart)

Code	Description
20006A661	2 inch Injection Quill
20006A454	Injection Quill 0.5-0.75 inch EPDM
20006A455	Injection Quill 1-1 inch EPDM
20006A459	Injection Quill 0.75-0.75 inch EPDM
20006A453	Injection Quill 0.5-1 inch EPDM

Accessories

Accessories		Page
	Seals	203
	Pipe Clips	204

Seals

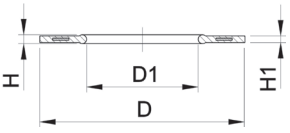


O-Ring gasket

Model:

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

	d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	D (mm)	D1 (mm)	D2 (mm)	closest inch (inch)
	10 - 12	8	**748 410 004**	0.002	**749 410 004**	17.62	12.37	2.62	¼
	16	10	**748 410 005**	0.002	**749 410 005**	20.78	15.54	2.62	⅜
	20	15	**748 410 006**	0.002	**749 410 006**	27.28	20.22	3.53	½
	25	20	**748 410 007**	0.002	**749 410 007**	35.23	28.17	3.53	¾
	32	25	**748 410 008**	0.003	**749 410 008**	39.99	32.93	3.53	1
	40	32	**748 410 009**	0.003	**749 410 009**	51.33	40.65	5.34	1 ¼
	50	40	**748 410 010**	0.004	**749 410 010**	57.68	46.99	5.34	1 ½
	63	50	**748 410 011**	0.005	**749 410 011**	70.37	59.69	5.34	2
	75	65	**748 410 014**	0.007	**749 410 014**	92.60	81.92	5.34	2 ½
	90	80	**748 410 015**	0.008	**749 410 015**	111.68	101.00	5.34	3
*	90	80	**748 410 248**	0.002	**749 410 248**	105.30	94.62	5.34	3
	110	100	**748 410 016**	0.016	**749 410 016**	134.00	120.20	6.99	4



Profile flange gasket metric

Model:

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

di FA are the suitable inner diameters of flange adaptors

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

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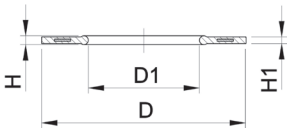
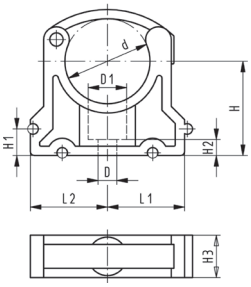


d (mm)	PN (bar)	DN (mm)	EPDM Code	FKM Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	di FA (mm)
630	10	600	**748 440 729**	**749 440 729**	0.923	695	555	10	7	545 - 555
710	6	700	**748 440 730**		0.890	810	712	6	3	562 - 712
800	6	800	**748 440 731**		1.340	917	813	6	3	663 - 813
900	6	900	**748 440 732**		1.170	1017	915	6	3	765 - 915
1000	6	1000	**748 440 733**		1.360	1124	1016	6	3	866 - 1016

Pipe Clips



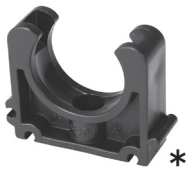
KLIP-IT pipe clip type 061 PP BS/ASTM

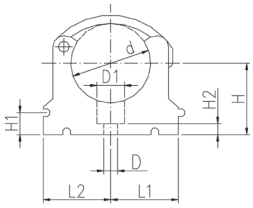
Model:

- **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)	d (mm)	Code	SP	Weight (kg)
¼		**167 061 054**	10	0.003
⅜		**167 061 085**	10	0.006
½		**167 061 086**	10	0.009
¾		**167 061 087**	10	0.007
1		**167 061 088**	10	0.012
1 ¼		**167 061 089**	10	0.025
1 ½		**167 061 090**	10	0.032
2		**167 061 091**	10	0.052
2 ½		**167 061 112**	10	0.062
3	90	**167 061 013**	10	0.092
4		**167 061 114**	10	0.114
5	140	**167 061**	10	0.224

d (inch)	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
2 ½	17	9	52	52	58		10	10	25	M8
3	17	9	65	65	65	3	10	10	28	M8
4	17	9	79	79	81		10	10	28	M8
5	17	9	98	98	110	5	10	10	32	M8





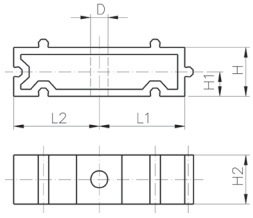
KLIP-IT pipe clip type 061 PP metric

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)	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	**167 061 012**	10	0.057
	90	**167 061 013**	10	0.092
	110	**167 061 014**	10	0.117
	125	**167 061 015**	10	0.180
	140	**167 061 016**	10	0.224
	160	**167 061 017**	10	0.242

	d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	HoH +/- 2mm (mm)	L1 (mm)	L2 (mm)	SC	closest inch (inch)
*	10	5	8	20	10	6	12		11	14	M4	⅛
*	12	5	8	21	10	6	12		11	14	M5	¼
*	16	6	11	27	10	6	16	17.0	14	17	M5	⅜
*	20	6	11	27	10	6	16	21.4	17	19	M5	½
*	25	6	11	30	10	6	16	26.9	19	22	M5	¾
*	32	6	11	36	10	6	16	36.7	24	27	M5	1
	40	7	14	44	10	7	22	44.4	34	34	M6	1 ¼
	50	7	14	51	10	7	22	52.3	37	37	M6	1 ½
	63	9	17	64	10	10	25	66.7	45	45	M8	2
	75	9	17	58	10	10	25		52	52	M8	2 ½
	90	9	17	65	10	10	28		65	65	M8	3
	110	9	17	75	10	10	28		79	79	M8	4
	125	9	17	90	10	10	32		88	88	M8	
	140	9	17	110	10	10	32		98	98	M8	5
	160	9	17	108	10	10	32		109	109	M8	6



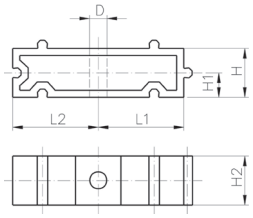
KLIP-IT spacer type 061 PP

Model:

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

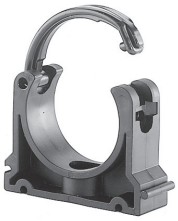
d (mm)	Inch (inch)	Code	SP	Weight (kg)
10 - 12	⅛ - ¼	**167 061 153**	10	0.003
16	⅜	**167 061 155**	10	0.005
20	½	**167 061 156**	10	0.005
25	¾	**167 061 157**	10	0.007
32	1	**167 061 158**	10	0.006
40	1 ¼	**167 061 159**	10	0.015
50	1 ½	**167 061 160**	10	0.017
63	2	**167 061 161**	10	0.020
75	2 ½	**167 061 162**	10	0.027
90	3	**167 061 163**	10	0.039

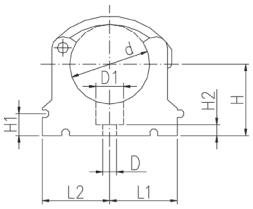
table continued on the next page

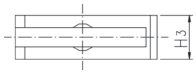


d (mm)	Inch (inch)	Code	SP	Weight (kg)
110	4	**167 061 164**	10	0.048
125	4 ½	**167 061 165**	10	0.059
140	5	**167 061 166**	10	0.065
160	6	**167 061 167**	10	0.071

d (mm)	Inch (inch)	D (mm)	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	HoH +/- 2mm (mm)	SC
10 - 12	⅛ - ¼	5	11	14	20	10	12	1.0	M4
16	⅜	6	14	17	20	10	16	17.0	M5
20	½	6	17	19	20	10	16	21.4	M5
25	¾	6	19	22	20	10	16	26.9	M5
32	1	6	24	27	20	10	16	36.7	M5
40	1 ¼	7	34	34	20	10	22	44.4	M6
50	1 ½	7	37	37	20	10	22	52.3	M6
63	2	9	45	45	20	10	25	66.7	M8
75	2 ½	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 ½	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







KLIP-IT pipe clip type 061 PE metric

Model:

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

	d (mm)	Code	SP	Weight (kg)
*	10	**173 061 003**	10	0.003
*	12	**173 061 004**	10	0.006
*	16	**173 061 005**	10	0.006
*	20	**173 061 006**	10	0.007
*	25	**173 061 007**	10	0.009
*	32	**173 061 008**	10	0.011
	40	**173 061 009**	10	0.026
	50	**173 061 010**	10	0.028
	63	**173 061 011**	10	0.047
	75	**173 061 012**	10	0.061
	90	**173 061 013**	10	0.098
	110	**173 061 014**	10	0.125
	125	**173 061 015**	10	0.194
	140	**173 061 016**	10	0.243
	160	**173 061 017**	10	0.254

	d (mm)	D (mm)	D1 (mm)	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	HoH +/- 2mm (mm)	SC
*	10	5	8	11	14	20	10	6	12	1	M4
*	12	5	8	11	14	21	10	6	12	1	M5
*	16	6	11	14	17	23	10	6	16	17	M5
*	20	6	11	17	19	25	10	6	16	21	M5
*	25	6	11	19	22	28	10	6	16	27	M5
*	32	6	11	24	27	31	10	6	16	37	M5
	40	7	14	34	34	35	10	7	22	44	M6
	50	7	14	37	37	40	10	7	22	52	M6
	63	9	17	45	45	52	10	10	25	67	M8
	75	9	17	52	52	58	10	10	25	81	M8
	90	9	17	65	65	65	10	10	28	100	M8

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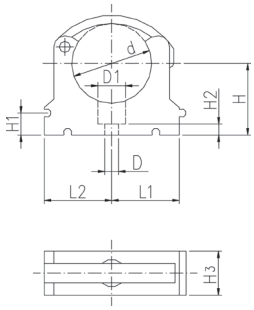
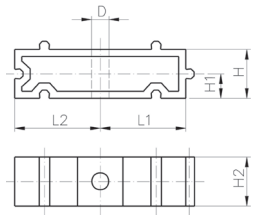


d (mm)	D (mm)	D1 (mm)	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	HoH +/- 2mm (mm)	SC
	110	9	17	79	79	75	10	10	28	127	M8
	125	9	17	88	88	90	10	10	32	143	M8
	140	9	17	98	98	110	10	10	32	161	M8
	160	9	17	109	109	108	10	10	32	185	M8



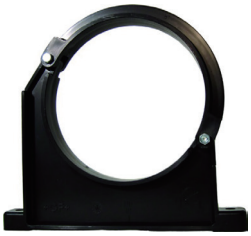
KLIP-IT spacer type 061 PE

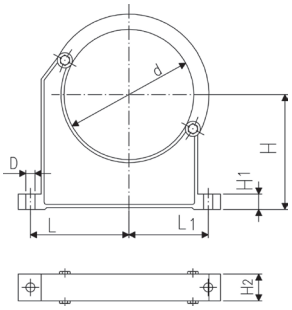
Model:

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

d (mm)	Inch (inch)	Code	SP	Weight (kg)
	1/8-1/4	**173 061 153**	10	0.003
16	3/8	**173 061 155**	10	0.005
20	1/2	**173 061 156**	10	0.005
25	3/4	**173 061 157**	10	0.006
32	1	**173 061 158**	10	0.008
40	1 1/4	**173 061 159**	10	0.016
50	1 1/2	**173 061 160**	10	0.017
63	2	**173 061 161**	10	0.025
75	2 1/2	**173 061 162**	10	0.027
90	3	**173 061 163**	10	0.040
110	4	**173 061 164**	10	0.050
125	4 1/2	**173 061 165**	10	0.059
140	5	**173 061 166**	10	0.065
160	6	**173 061 167**	10	0.078

HoH +/- 2mm (mm)	D (mm)	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	SC
17	5	11	14	20	10	12	M4
21	6	14	17	20	10	16	M5
27	6	17	19	20	10	16	M5
37	6	19	22	20	10	16	M5
44	6	24	27	20	10	16	M5
52	7	34	34	20	10	22	M6
67	7	37	37	20	10	22	M6
81	9	45	45	20	10	25	M8
100	9	52	52	20	10	25	M8
127	9	65	65	20	10	28	M8
143	9	79	79	20	10	28	M8
	9	88	88	20	10	32	M8
185	9	98	98	20	10	32	M8
	9	109	109	20	10	32	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	SP	GP	Weight (kg)
3	90	3	**167 060 038**	10	40	0.144
4			**167 060 064**	10	30	0.160
5	140	5	**167 060 041**	10	20	0.260
6			**167 060 067**	10	20	0.302
8			**167 060 070**	5		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

PVC-U Stub Flanges and Backing Rings

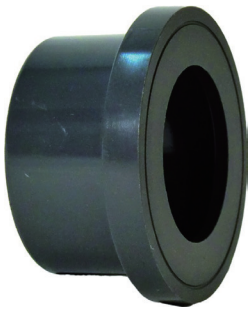
Flange adaptors and flanges	211
Backing flanges PP-V	212
Backing flanges PP-Steel	214
Backing flanges PVC-U	217
Backing flanges Steel	219
Blanking flanges PVC-U	220

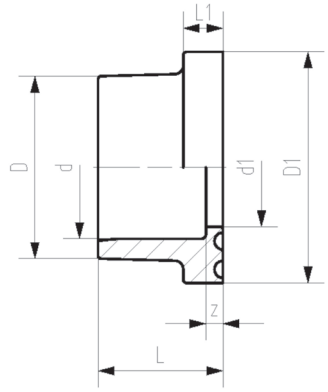
Flange Adaptors and Backing Rings Matching Table

Size (inch)	Stub Flange Code	Metric OD (mm)	Stub Flange	ANSI UPVC	Table D - GAL	Table E - GAL	ANSI 150 - GAL	Table D - SS	Table E - SS	ANSI 150-SS	ANSI PP-V	DIN PP-V	ANSI PP-Steel	DIN PP-Steel
½	**721 791 106**	20	721791106	721702206	200059726	200059726	200059782	200059877	200059877	200059905	727701406	727700406	727701206	727700206
¾	**721 791 107**	25	721800107	721702207	200059727	200059727	200059783	200059878	200059878	200059906	727701407	727700407	727701207	727700207
1	**721 791 108**	32	721800108	721702208	200059728	200059728	200059784	200059879	200059879	200059907	727701408	727700408	727701208	727700208
1 ¼	**721 791 109**	40	721800109	721702209	200059729	200059729	200059785	200059880	200059880	200059908	727701409	727700409	727701209C	727700209
1 ½	**721 791 110**	50	721800110	721702210	200059730	200059730	200059786	200059881	200059881	200059909	727701410	727700410	727701210C	727700210
2	**721 791 111**	63	721790111	721702211	200059731	200059731	200059787	200059882	200059882	200059910	727701411	727700411	727701211C	727700211
		75	721790112	721702212	200059732	200059732	200059788	200059883	200059883	200059911	727701412	727700412	727701212C	727700212
3	**721 791 113**	90	721790113	721702213	200059812	200059812	200064130	200059935	200059935	200064121	727701413	727700413	727701213C	727700213
		110	721790114		200059813	200059829			200059952		727701414	727700414	727701214C	727700214
4	**721 791 115**			721702214	200060455	200059845	200064131	200059936	200059968	200064122	200050066		200050032	
5		125	721790116	721702216	200059815	200059815	200064132	200059937	200059938	200064123	727700416	727700415	727700215	727700215
6	**721 791 117**			721702217	200059816	200059847	200064133	200059939	200059970	200064124	200050067		200050031	
8	**721 791 120**	225	721790120	721702220	200059818	200059835	200064134	200059941	200059958	200064125	727700420	727700420	727701220	**727700217**
		160	721790117			200059832			200059955		727700417	727700417	727700217	**727700220**
10	**721 791 122**	280	721790122		200059819	200059836	200064135	200059942	200059959	200064126	727700422	727700422	200060097	**727700222**
12	**721 791 123**	315	721790123		200059820	200059837	200064136	200059943	200059960	200064127	727700423	727700423		**727700223**
		355	721790124				200064137			200064128		727700424	200060099	**727700224**
		400	721790125				200064138			200064129		727700425	200060100	**727700225**

ANSI Vanstone Flange	Description
200060316	Vanstone CPVC Flange slotted to suit Table E 6"
200060204	Vanstone CPVC Flange Table E 8"
200060313	Vanstone UPVC Flange d225 ANSI Sch80 machined
200060311	Vanstone CPVC Flange DN250 Table E 10"

Flange adaptors and flanges



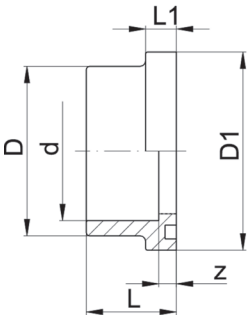


Flange adaptor PVC-U
Combined jointing face flat and serrated Inch BS

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	SP	Weight (kg)	D1 (mm)	z (mm)	d1 (mm)	D (mm)	L (mm)	L1 (mm)
15	½	15		**721 791 106**	10	0.009	34	3	16.0	27	21	6
20	¾	15		**721 791 107**	10	0.014	41	3	21.0	33	24	7
25	1	15		**721 791 108**	10	0.023	50	3	28.0	41	27	7
32	1 ¼	15		**721 791 109**	10	0.035	61	3	36.0	50	32	8
40	1 ½	15		**721 791 110**	10	0.058	73	3	45.0	61	33	8
50	2	15		**721 791 111**	5	0.107	91	3	55.5	77	40	9
65	2 ½	16	75	**721 790 112**	10	0.159	106	3	69.0	91	47	10
80	3	15		**721 791 113**	20	0.269	125	5	82.0	108	56	11
100	4	15		**721 791 115**	10	0.422	155	5	108.0	136	69	12
125	5	16	140	**721 790 116**	6	0.725	188	5	132.0	165	81	14
150	6	15		**721 791 117**	2	1.172	217	5	160.0	198	96	16
200	8	9		**721 791 120**	2	2.028	274	6	210.0	248	122	20
250	10	9		**721 791 122**	1	3.020	329	9	260.0	307	151	23
300	12	6		**721 791 123**	1	3.400	379	4	302.0	346	172	27



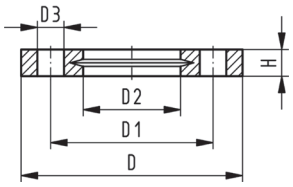
Flange adaptor PVC-U
Jointing face with O-ring groove Inch BS

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, FKM code no. 749 410 013-163

DN (mm)	d (inch)	d (mm)	PN (bar)	Code	SP	Weight (kg)	D1 (mm)	z (mm)	D (mm)	L (mm)	L1 (mm)
50	2		15	**721 811 111**	5	0.125	91	8	77	46	14
65	2 ½	75	16	**721 810 112**	10	0.183	106	8	91	52	15
125	5	140	16	**721 810 116**	6	0.804	188	11	165	87	20
200	8		9	**721 811 120**	0	2.070	274	12	248	128	26

Backing flanges PP-V



Backing flange PP-V
For socket systems metric

Model:

- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D2024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes

d (mm)	DN (mm)	d (inch)	PN (bar)	Standard	Bolt circle	Design	Code	Weight (kg)
20	15		16	Metric	PN10	Butt/Socket	**727 700 406**	0.093
20	15	½	16	ASME	class 150	Butt/Socket	**727 701 406**	0.091
25	20		16	Metric	PN10	Butt/Socket	**727 700 407**	0.120
25	20	¾	16	ASME	class 150	Butt/Socket	**727 701 407**	0.120
32	25		16	Metric	PN10	Butt/Socket	**727 700 408**	0.151
32	25	1	16	ASME	class 150	Butt/Socket	**727 701 408**	0.147
40	32		16	Metric	PN10	Butt/Socket	**727 700 409**	0.244
40	32	1 ¼	16	ASME	class 150	Butt/Socket	**727 701 409**	0.246
50	40		16	Metric	PN10	Butt/Socket	**727 700 410**	0.297
50	40	1 ½	16	ASME	class 150	Butt/Socket	**727 701 410**	0.299
63	50		16	Metric	PN10	Butt/Socket	**727 700 411**	0.362
63	50	2	16	ASME	class 150	Butt/Socket	**727 701 411**	0.361
75	65		16	Metric	PN10	Butt/Socket	**727 700 412**	0.487
75	65	2 ½	16	ASME	class 150	Butt/Socket	**727 701 412**	0.492
90	80		16	Metric	PN10	Socket	**727 700 413**	0.550
90	80		16	Metric	PN10	Butt	**727 700 513**	0.544
90	80	3	16	ASME	class 150	Socket	**727 701 413**	0.605
90	80	3	16	ASME	class 150	Butt	**727 701 513**	0.607
110	100		16	Metric	PN10	Socket	**727 700 414**	0.640
110	100		16	Metric	PN10	Butt	**727 700 514**	0.643
110	100	4	16	ASME	class 150	Socket	**727 701 414**	0.704
110	100	4	16	ASME	class 150	Butt	**727 701 514**	0.736
125	125		16	Metric	PN10	Butt	**727 700 515**	0.635
140	125		16	Metric	PN10	Socket	**727 700 416**	0.781
140	125		16	Metric	PN10	Butt	**727 700 516**	0.842
160	150		16	Metric/ASME	PN10/ class 150	Socket	**727 700 417**	1.050
160	150	6	16	Metric/ASME	PN10/ class 150	Butt	**727 700 517**	1.200
180	150		16	Metric	PN10	Butt	**727 700 518**	1.200
200	200		16	Metric/ASME	PN10/ class 150	Socket	**727 700 419**	1.629
200	200	8	16	Metric/ASME	PN10/ class 150	Butt	**727 700 519**	1.400
225	200		16	Metric/ASME	PN10/ class 150	Socket	**727 700 420**	1.400
225	200	8	16	Metric/ASME	PN10/ class 150	Butt	**727 700 520**	1.400
250	250		10	Metric	PN10	Socket	**727 700 421**	2.229
250	250		10	Metric	PN10	Butt	**727 700 521**	2.052
250	250	10	10	ASME	class 150	Butt	**727 701 521**	2.241
280	250		10	Metric	PN10	Socket	**727 700 422**	1.651
280	250		10	Metric	PN10	Butt	**727 700 522**	1.700
280	250	10	10	ASME	class 150	Socket	**727 701 422**	1.838
280	250	10	10	ASME	class 150	Butt	**727 701 522**	2.173
315	300		10	Metric	PN10	Socket	**727 700 423**	2.461
315	300		10	Metric	PN10	Butt	**727 700 523**	2.400
315	300	12	10	ASME	class 150	Socket	**727 701 423**	3.482
315	300	12	10	ASME	class 150	Butt	**727 701 523**	3.627

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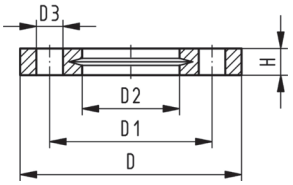
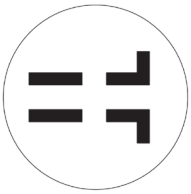
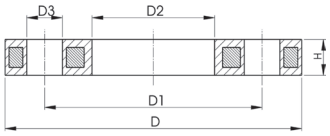


d (mm)	DN (mm)	d (inch)	PN (bar)	Standard	Bolt circle	Design	Code	Weight (kg)
355	350		10	Metric	PN10	Socket	**727 700 424**	3.000
355	350		10	Metric	PN10	Butt	**727 700 524**	4.440
400	400		10	Metric	PN10	Socket	**727 700 425**	5.135
400	400		10	Metric	PN10	Butt	**727 700 525**	5.624

d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
20	95	65	28	14	16	4	M12
20	95	60	28	16	16	4	M12
25	105	75	34	14	17	4	M12
25	105	70	34	16	17	4	M12
32	115	85	42	14	18	4	M12
32	115	79	42	16	18	4	M12
40	140	100	51	18	20	4	M16
40	140	89	51	16	20	4	M16
50	150	110	62	18	22	4	M16
50	150	98	62	16	22	4	M16
63	165	125	78	18	24	4	M16
63	165	121	78	19	24	4	M16
75	185	145	92	18	26	4	M16
75	185	140	92	19	26	4	M16
90	200	160	110	18	27	8	M16
90	200	160	108	18	27	8	M16
90	200	152	110	19	27	4	M16
90	200	152	108	19	27	4	M16
110	220	180	133	18	28	8	M16
110	220	180	128	18	28	8	M16
110	229	190	133	19	28	8	M16
110	229	190	128	19	28	8	M16
125	220	180	135	18	28	8	M16
140	250	210	167	18	30	8	M16
140	250	210	158	18	30	8	M16
160	285	240	190	22	32	8	M20
160	285	240	178	22	32	8	M20
180	285	240	188	22	32	8	M20
200	340	297	226	22	34	8	M20
200	340	297	235	22	34	8	M20
225	340	297	250	22	34	8	M20
225	340	297	238	22	34	8	M20
250	395	350	277	22	38	12	M20
250	395	350	288	22	38	12	M20
250	406	362	288	26	38	12	M20
280	395	350	310	22	38	12	M20
280	395	350	294	22	38	12	M20
280	406	362	310	26	38	12	M20
280	406	362	294	26	38	12	M20
315	445	400	348	22	42	12	M20
315	445	400	338	22	42	12	M20
315	483	432	348	26	42	12	M20
315	483	432	338	26	42	12	M20
355	515	460	388	22	46	16	M20
355	515	460	376	22	46	16	M20
400	574	515	442	26	50	16	M24
400	574	515	430	26	50	16	M24

Backing flanges PP-Steel





Backing flange PP-Steel
For butt fusion systems metric

Model:

- Material: PP (30 % glass-fibre reinforced) with steel ring
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D4024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes

[1]) FM 1613 approved – 15 bar

[2]) Profiled loose flange

	d (mm)	DN (mm)	D (mm)	PN (bar)	Standard	Bolt circle	Design	Code	Weight (kg)
	20	15	95	16	Metric	PN10	Butt/Socket	**727 700 206**	0.216
	20	15	95	16	ASME	class 150	Butt/Socket	**727 701 206**	0.213
	25	20	105	16	Metric	PN10	Butt/Socket	**727 700 207**	0.279
	25	20	105	16	ASME	class 150	Butt/Socket	**727 701 207**	0.260
	32	25	115	16	Metric	PN10	Butt/Socket	**727 700 208**	0.429
	32	25	115	16	ASME	class 150	Butt/Socket	**727 701 208**	0.416
	40	32	140	16	Metric	PN10	Butt/Socket	**727 700 209**	0.621
	40	32	140	16	ASME	class 150	Butt/Socket	**727 701 209**	0.730
	50	40	150	16	Metric	PN10	Butt/Socket	**727 700 210**	0.722
	50	40	150	16	ASME	class 150	Butt/Socket	**727 701 210**	0.809
	63	50	165	16	Metric	PN10	Butt/Socket	**727 700 211**	0.900
	63	50	165	16	ASME	class 150	Butt/Socket	**727 701 211**	0.866
	75	65	185	16	Metric	PN10	Butt/Socket	**727 700 212**	1.110
	75	65	185	16	ASME	class 150	Butt/Socket	**727 701 212**	1.117
1	90	80	200	16	Metric	PN10	Butt	**724 700 313**	1.390
	90	80	200	16	Metric	PN10	Socket	**727 700 213**	1.369
	90	80	200	16	Metric	PN10	Butt	**727 700 313**	1.390
	90	80	200	16	ASME	class 150	Socket	**727 701 213**	1.492
	90	80	200	16	ASME	class 150	Butt	**727 701 313**	1.499
1	110	100	223	16	Metric	PN10	Butt	**724 700 314**	1.407
	110	100	220	16	Metric	PN10	Socket	**727 700 214**	1.522
	110	100	220	16	Metric	PN10	Butt	**727 700 314**	1.407
	110	100	229	16	ASME	class 150	Socket	**727 701 214**	1.695
	110	100	229	16	ASME	class 150	Butt	**727 701 314**	1.739
1	125	100	223	16	Metric	PN10	Butt	**724 700 315**	1.408
	125	100	220	16	Metric	PN10	Butt	**727 700 315**	1.408
	125	125	250	16	Metric	PN10	Socket	**727 700 815**	2.475
1	140	125	250	16	Metric	PN10	Butt	**724 700 316**	2.300
	140	125	250	16	Metric	PN10	Butt	**727 700 716**	2.318
	140	125	250	16	Metric	PN10	Socket	**727 700 816**	2.033
1	160	150	285	16	Metric	PN10	Butt	**724 700 317**	3.500
	160	150	285	16	Metric/ASME	PN10/ class 150	Butt	**727 700 717**	3.491
	160	150	285	16	Metric/ASME	PN10/ class 150	Socket	**727 700 817**	3.167
1	180	150	285	16	Metric	PN10	Butt	**724 700 318**	3.100
	180	150	285	16	Metric/ASME	PN10/ Class 150	Butt	**727 700 718**	3.108
1, 2	200	200	344	16	Metric	PN16	Butt	**724 700 319**	3.549
	200	200	340	16	Metric/ASME	PN10/ class 150	Butt	**727 700 719**	5.600
	200	200	340	16	Metric/ASME	PN10/ class 150	Socket	**727 700 819**	6.143
1, 2	225	200	344	16	Metric	PN16	Butt	**724 700 320**	3.380
	225	200	340	16	Metric/ASME	PN10/ class 150	Butt	**727 700 720**	5.533
	225	200	340	16	Metric/ASME	PN10/ class 150	Socket	**727 700 820**	4.448
1, 2	250	250	410	16	Metric	PN16	Butt	**724 700 321**	6.390
	250	225	395	16	Metric	PN10	Socket	**727 700 031**	8.340
	250	250	406	10	ASME	class 150	Butt	**727 701 321**	6.000

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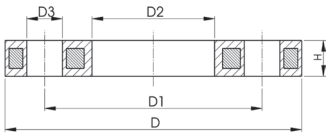

	d (mm)	DN (mm)	D (mm)	PN (bar)	Standard	Bolt circle	Design	Code	Weight (kg)
	250	250	395	16	Metric	PN10	Butt	**727 700 721**	6.632
	250	250	395	16	Metric	PN10	Socket	**727 700 821**	7.179
1, 2	280	250	410	16	Metric	PN16	Butt	**724 700 322**	6.310
	280	250	395	16	Metric	PN10	Butt	**727 700 722**	6.573
	280	250	395	16	Metric	PN10	Socket	**727 700 822**	5.547
1, 2	315	300	455	16	Metric	PN16	Butt	**724 700 323**	9.740
	315	300	445	16	Metric	PN10	Butt	**727 700 723**	7.903
	315	300	445	16	Metric	PN10	Socket	**727 700 823**	6.980
	315	300	483	10	ASME	class 150	Butt	**727 701 322**	11.800
1, 2	355	350	521	16	Metric	PN16	Butt	**724 700 324**	15.203
	355	350	515	16	Metric	PN10	Butt	**727 700 724**	14.587
	355	350	515	16	Metric	PN10	Socket	**727 700 824**	12.465
	355	350	540	10	ASME	class 150	Butt	**727 701 323**	17.900
1, 2	400	400	582	16	Metric	PN16	Butt	**724 700 325**	20.600
	400	400	574	16	Metric	PN10	Butt	**727 700 725**	20.034
	400	400	574	16	Metric	PN10	Socket	**727 700 825**	17.607
	400	400	597	10	ASME	class 150	Butt	**727 701 324**	24.500
1, 2	450	500	685	10	Metric	PN10	Butt	**724 700 426**	25.600
1, 2	500	500	685	10	Metric	PN10	Butt	**724 700 427**	21.061
2	560	600	796	10	Metric	PN10	Butt	**724 700 428**	35.000
2	630	600	800	10	Metric	PN10	Butt	**724 700 429**	28.500
2	710	700	912	6	Metric	PN10	Butt	**724 700 430**	25.500
2	800	800	1026	6	Metric	PN10	Butt	**724 700 431**	39.300
2	900	900	1129	6	Metric	PN10	Butt	**724 700 432**	48.500
	450	500	712	10	ASME	class 150	Butt	**727 701 325**	33.600

	d (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
	20	65	28	14	12	4	M12
	20	60	28	16	12	4	M12
	25	75	34	14	12	4	M12
	25	70	34	16	12	4	M12
	32	85	42	14	16	4	M12
	32	79	42	16	16	4	M12
	40	100	51	18	16	4	M16
	40	89	51	16	16	4	M16
	50	110	62	18	20	4	M16
	50	98	62	16	18	4	M16
	63	125	78	18	20	4	M16
	63	121	78	19	18	4	M16
	75	145	92	18	20	4	M16
	75	140	92	19	18	4	M16
1	90	160	108	18	20	8	M16
	90	160	110	18	20	8	M16
	90	160	108	18	20	8	M16
	90	152	110	19	20	4	M16
	90	152	108	19	20	4	M16
1	110	180	128	18	20	8	M16
	110	180	133	18	20	8	M16
	110	180	128	18	20	8	M16
	110	190	133	19	20	8	M16
	110	190	128	19	20	8	M16
1	125	180	135	18	20	8	M16
	125	180	135	18	20	8	M16
	125	210	150	18	26	8	M16
1	140	210	158	18	24	8	M16
	140	210	158	18	24	8	M16
	140	210	167	18	26	8	M16
1	160	240	178	22	28	8	M20
	160	240	178	22	24	8	M20
	160	240	190	22	26	8	M20
1	180	240	188	22	28	8	M20
	180	240	188	22	24	8	M20

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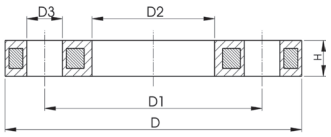
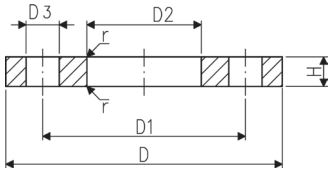


	d (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
1, 2	200	295	235	22	31	12	M20
	200	295	235	22	27	8	M20
	200	295	226	22	29	8	M20
1, 2	225	295	238	22	31	12	M20
	225	295	238	22	27	8	M20
	225	295	250	22	29	8	M20
1, 2	250	355	288	26	35	12	M24
	250	325	277	22	32	8	M20
	250	362	293	25	30	12	M24
	250	350	288	22	30	12	M20
	250	350	277	22	32	12	M20
1, 2	280	355	294	26	36	12	M24
	280	350	294	22	30	12	M20
	280	350	310	22	32	12	M20
1, 2	315	410	338	26	43	12	M24
	315	400	338	22	34	12	M20
	315	400	348	22	36	12	M20
	315	432	338	25	34	12	M24
1, 2	355	470	376	26	55	16	M24
	355	460	376	23	40	16	M20
	355	460	388	23	42	16	M20
	355	476	376	29	42	12	M27
1, 2	400	525	430	30	56	16	M27
	400	515	430	26	40	16	M24
	400	515	442	26	42	16	M24
	400	539	429	29	44	16	M27
1, 2	450	620	517	26	56	20	M24
1, 2	500	620	533	26	56	20	M24
2	560	725	618	30	68	20	M27
2	630	725	645	30	68	20	M27
2	710	840	740	30	49	24	M27
2	800	950	843	33	58	24	M30
2	900	1050	947	33	62	28	M30
	450	635	540	32	53	20	M30

Backing flanges PVC-U



Backing flange PVC-U metric

Model:

- For socket systems
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D2024, BS 1560, BS EN 1759
- Maximum medium- or ambient temperature 45 °C

AL: number of holes

[1]) Not for BS

	d (mm)	DN (mm)	Size (inch)	PN (bar)	Standard	Bolt circle	Design	Code	SP	Weight (kg)
	16	10	⅜	10	Metric	PN10	Socket	**721 700 005**	100	0.053
	20	15	½	10	Metric	PN10	Butt/Socket	**721 700 006**	90	0.067
	25	20	¾	10	Metric	PN10	Butt/Socket	**721 700 007**	50	0.092
	32	25	1	10	Metric	PN10	Butt/Socket	**721 700 008**	40	0.133
	40	32	1 ¼	10	Metric	PN10	Butt/Socket	**721 700 009**	25	0.198
	50	40	1 ½	10	Metric	PN10	Butt/Socket	**721 700 010**	20	0.247
	63	50	2	10	Metric	PN10	Butt/Socket	**721 700 011**	30	0.312
	75	65	2 ½	10	Metric	PN10	Butt/Socket	**721 700 012**	25	0.376
	90	80	3	10	Metric	PN10	Socket	**721 700 013**	20	0.464
	110	100	4	10	ASME	class 150	Socket	**161 483 180**	30	0.538
1	110	100	4	10	Metric	PN10	Socket	**721 700 014**	30	0.543
	125	125	4 ½	10	Metric	PN10	Socket	**721 700 015**	12	0.904
	140	125	5	10	Metric	PN10	Socket	**721 700 016**	12	0.758
1	160	150	6	10	Metric	PN10	Socket	**721 700 017**	5	1.009
	200	200	7	10	Metric	PN10	Socket	**721 700 019**	8	1.669
	225	200	8	10	Metric	PN10	Socket	**721 700 020**	8	1.377
	250	250	9	6	Metric	PN10	Socket	**721 700 021**	1	2.376
	250	225	9	6	Metric	PN10	Socket	**721 700 136**	1	1.800
	280	250	10	6	Metric	PN10	Socket	**721 700 137**	1	1.746
	315	300	12	6	Metric	PN10	Socket	**721 700 138**	1	2.349
	355	350	14	6	Metric	PN10	Socket	**721 700 139**	1	3.485
	400	400	16	6	Metric	PN10	Socket	**721 700 140**	1	4.526
	20	15	½	10	ASME	class 150	Socket	**721 702 206**	90	0.068
	25	20	¾	10	ASME	class 150	Socket	**721 702 207**	50	0.090
	32	25	1	10	ASME	class 150	Socket	**721 702 208**	40	0.128
	40	32	1 ¼	10	ASME	class 150	Socket	**721 702 209**	25	0.203
	50	40	1 ½	10	ASME	class 150	Socket	**721 702 210**	20	0.238
	63	50	2	10	ASME	class 150	Socket	**721 702 211**	30	0.302
	75	65	2 ½	10	ASME	class 150	Socket	**721 702 212**	27	0.369
	90	80	3	10	ASME	class 150	Socket	**721 702 213**	20	0.509
	110	100	4	10	ASME	class 150	Socket	**721 702 214**	30	0.516
	140	125	5	10	ASME	class 150	Socket	**721 702 216**	12	0.737
	160	150	6	10	ASME	class 150	Socket	**721 702 217**	5	1.910
	225	200	8	10	ASME	class 150	Socket	**721 702 220**	8	1.360

	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	r (mm)	AL	SC
	90	60	23	14	10	1	4	M12
	95	65	28	14	11	1	4	M12
	105	75	34	14	12	2	4	M12
	115	85	42	14	14	2	4	M12
	140	100	51	18	15	2	4	M16
	150	110	62	18	16	2	4	M16
	165	125	78	18	18	3	4	M16
	185	145	92	18	19	3	4	M16
	200	160	110	18	20	3	8	M16
	220	190	133	19	22	3	8	
1	220	180	133	18	22	3	8	M16
	250	210	150	18	26	5	8	M16
	250	210	167	18	26	4	8	M16

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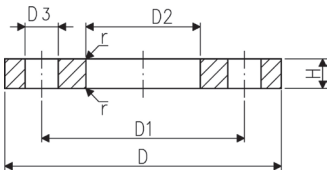
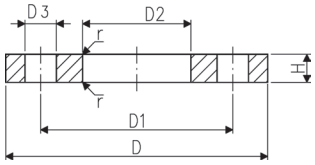


	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	r (mm)	AL	SC
1	285	240	190	22	28	4	8	M20
	340	295	226	22	32	4	8	M20
	340	295	250	22	32	4	8	M20
	395	350	277	22	36	4	12	M20
	370	325	277	22	36	4	8	M20
	395	350	310	22	36	4	12	M20
	445	400	348	22	36	4	12	M20
	505	460	388	22	38	5	16	M20
	565	515	442	26	42	5	16	M24
	95	60	28	16	11	1	4	
	105	70	34	16	12	2	4	
	115	79	42	16	14	2	4	
	140	89	51	16	15	2	4	
	150	98	62	16	16	2	4	
	165	121	78	19	18	3	4	
	185	140	92	19	19	3	4	
	200	152	110	19	20	3	4	
	220	190	138	19	22	3	8	
	250	216	167	22	26	4	8	
	285	241	200	22	28	4	8	
	340	298	250	22	32	4	8	

Backing flanges Steel



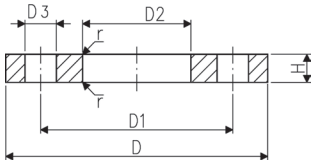
Backing Flange, Galvanised Steel for socket systems

Model:

- Galvanised steel, suitable for laying underground
- Connecting dimensions: BS10:1962
- Bolt circle Table D & E

AL: number of holes
* Table D
** Table E
# Metric

	d (mm)	d (inch)	DN (mm)	PN (bar)	Code	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	AL	SC
	20	½	15	16	**200 059 726**	96	67	28	15	7	4	M12x55
	25	¾	20	16	**200 059 727**	102	73	34	15	7	4	M12x60
	32	1	25	16	**200 059 728**	115	83	42	15	7	4	M12x60
	40	1 ¼	32	16	**200 059 729**	121	88	51	15	8	4	M12x70
	50	1 ½	40	16	**200 059 730**	134	99	62	15	8	4	M12x75
	63	2	50	16	**200 059 731**	153	115	78	18	8	4	M16x80
	75	2 ½	65	16	**200 059 732**	165	127	92	18	8	4	M16x85
	90	3	80	16	**200 059 812**	184	146	110	18	8	4	M16x90
	110		100	16	**200 059 829**	216	178	133	18	8	8	M16x95
#		4	100	16	**200 060 455**	216	178	138	18	8	4	M16x95
*		4	100	16	**200 059 845**	216	178	138	18	8	8	M16x95
**	140	5	125	16	**200 059 815**	254	210	167	18	8	8	M16x110
		6	160	16	**200 059 847**	280	235	200	22	8	8	M20x120
**	225	8	200	6	**200 059 835**	337	292	250	22	8	8	M20x150



Backing Flange, Galvanised Steel for socket systems

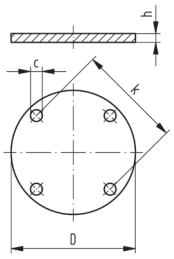
Model:

- Galvanised steel, suitable for laying underground
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

AL: number of holes

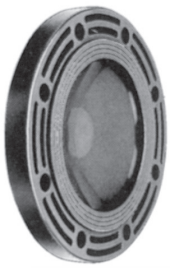
d (mm)	d (inch)	DN (mm)	PN (bar)	Code	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	AL	SC
20	½	15	16	**200 059 782**	89	60	28	16	7	4	M12x55
25	¾	20	16	**200 059 783**	98	70	34	16	7	4	M12x60
32	1	25	16	**200 059 784**	108	79	42	16	7	4	M12x60
40	1 ¼	32	16	**200 059 785**	117	89	51	16	8	4	M12x70
50	1 ½	40	16	**200 059 786**	127	98	62	16	8	4	M12x75
63	2	50	16	**200 059 787**	152	121	78	19	8	4	M16x80
75	2 ½	65	16	**200 059 788**	178	140	92	19	8	4	M16x85
90	3	80	16	**200 064 130**	190	152	110	19	8	4	M16x90
110		100	16	**200 059 790**	229	190	133	19	8	8	M16x95
	4	100	16	**200 064 131**	229	190	138	19	8	8	M16x95
140	5	125	16	**200 064 132**	254	216	167	22	8	8	M20x120
	6	150	16	**200 064 133**	279	241	200	22	8	8	M20x120
225	8	200	6	**200 064 134**	343	298	250	22	8	8	M20x150

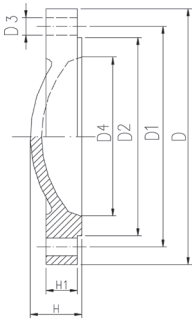
Blanking flanges PVC-U



Blanking flange PVC-U
Drilled to ANSI 16.5 B class 150

d (inch)	PN (bar)	Code	Weight (kg)	D (mm)	c (mm)	k (mm)	h (mm)	holes
½	15	**721 702 306**	0.080	95	16	60	10	4
¾	15	**721 702 307**	0.080	105	16	70	10	4
1	15	**721 702 308**	0.120	115	16	79	10	4
1 ¼	15	**721 702 309**	0.120	140	16	89	10	4
1 ½	15	**721 702 310**	0.240	150	16	98	10	4
2	15	**721 702 311**	0.240	165	19	121	10	4
3	15	**721 702 313**	0.520	200	19	152	12	4
4	15	**721 702 315**	0.730	220	19	190	17	8
6	15	**721 702 317**	1.700	285	22	240	22	8





Blanking flange PVC-U
Jointing face serrated metric

Model:

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

* Combined Flange, connecting dimensions EN1092 PN 10 and ANSI B 16.5 Class 150
d20 - d110: bolt hole as long hole version
AL: number of holes

	Inch (inch)	DN (mm)	PN (bar)	d (mm)	Code	SP	Weight (kg)
*	1/2	15	10	20	**721 700 506**	75	0.075
*	3/4	20	10	25	**721 700 507**	50	0.097
*	1	25	10	32	**721 700 508**	30	0.145
*	1 1/4	32	10	40	**721 700 509**	20	0.214
*	11/2	40	10	50	**721 700 510**	18	0.298
*	2	50	10	63	**721 700 511**	15	0.352
*	2 1/2	65	10	75	**721 700 512**	10	0.538
*	3	80	10	90	**721 700 513**	20	0.679
*	4	100	10	110	**721 700 514**	10	0.870
*	5	125	10	140	**721 700 516**	1	1.286
*	6	150	10	160	**721 700 517**	1	1.761
	8	200	10	225	**721 700 520**	1	2.731
	10	250	10	250	**721 700 521**	1	3.329
	10	250	10	280	**721 700 522**	1	3.769
	12	300	6	315	**721 700 523**	1	4.856
	14	350	6	355	**721 700 524**	1	6.972
	16	400	6	400	**721 700 525**	1	9.125

	D (mm)	D1 (mm)	D1 min. (mm)	D1 max. (mm)	D2 (mm)	D3 (mm)	D4 (mm)	H (mm)	H1 (mm)	AL
*	95		61	63	34	16	15	15	12	4
*	105		70	73	41	16	20	16	13	4
*	115		79	83	50	16	25	19	15	4
*	140		91	100	61	18	34	20	16	4
*	150		101	110	74	18	44	22	17	4
*	165		121	124	91	19	57	25	20	4
*	185		140	145	106	22	69	29	21	4

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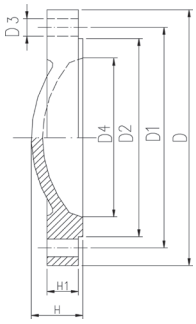

	D (mm)	D1 (mm)	D1 min. (mm)	D1 max. (mm)	D2 (mm)	D3 (mm)	D4 (mm)	H (mm)	H1 (mm)	AL
*	200		152	160	125	22	82	32	22	8
*	220		180	191	150	24	102	36	24	8
*	250	215			184	23	120	41	28	8
*	285	240			212	23	152	45	30	8
	340	295			261	22	213	63	36	8
	370	325			292	22	238	63	36	8
	395	350			320	22	266	65	36	12
	445	400			371	22	299	65	36	12
	505	460			430	22	341	67	38	16
	565	515			482	26	384	71	42	16

Solvent Cements and Tools

Solvent Cements and Tools		Page
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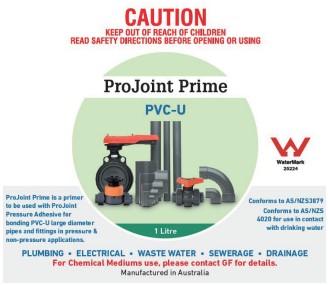
Cleaners and solvent cement



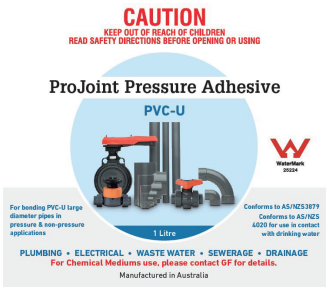
ProJoint Pressure Primer (PVC-U) 1 Litre

- ProJoint Prime is a primer to be used with ProJoint Pressure Adhesive for bonding PVC-U pipes and fittings up to from OD12mm - d400mm in pressure & non-pressure applications

Model:

- Conforms to AS/NZS 4020 for use in contact with drinking water
- Conforms to AS/NZS3879

Volume (l)	Code	SP	Weight (kg)
1	**200 065 243**	1	1.050



ProJoint Pressure Adhesive (PVC-U) 1 Litre

Model:

- For bonding PVC-U pipes and fittings up to from OD12mm - d400mm in pressure & non-pressure applications
- Use ProJoint Primer (PVC-U) to prepare the jointing surface
- Max. PN10
- Conforms to AS/NZS3879
- Conforms to AS/NZS 4020 for use in contact with drinking water

Volume (l)	Code	SP	Weight (kg)
1	**200 065 242**	1	1.050

Tangit PVC-U/PVC-C/ABS cleaner/primer

Model:

- For PVC-U, PVC-C, ABS
- 1 litre tin

Code	SP	Weight (kg)
799 298 010	12	0.900

GF Dytex special cleaner/dissolvant

- For PVC-U, PVC-C

Model:

- To be used with GF Dytex special solvent cement
- 0,5 l can (net)

Code	Weight (kg)
799 298 117	0.718

GF Dytex special solvent cement (To be phased out, starting May 2025)

- For PVC-U, PVC-C

Model:

- Special solvent cement for sulphuric acid >93% - 96%
- Not gap filling
- 0,65 kg can (net)

Code	Weight (kg)
799 298 116	0.769

Tangit DTX special solvent cement

- Special solvent cement for critical media (see online tool ‚chemical resistance')
- For PVC-U, PVC-C
- Max. PN10/d140
- Use cleaner for PVC-U/C, ABS
- Tin à 0.500 kg

Language	Code	SP	Weight (kg)
DE, FR, GB, NL	**799 298 031**	6	0.586
DK, FI, NO, SE	**200 119 366**		0.500
NL	**200 155 054**		0.586

Tangit PVC-U solvent cement

- Tin à 0.250, 0.500 and 1.000 kg (Net)
- 0.125 kg tube

Code	SP	Weight (kg)	Description
799 298 000	12	0.125	tube: 0.125 kg
799 298 001	12	0.250	tin: 0.25 kg
799 298 002	12	0.500	tin: 0.50 kg
799 298 003	6	1.000	tin: 1.00 kg

Tangit PVC-C Plus solvent cement

- 0,65 kg can (net)

Code	SP	Weight (kg)
799 298 052	6	0.700

Cap for cement

- Cap prevents the evaporation of the solvent whilst using the Tangit cement

Code	SP	Weight (kg)
799 298 028	500	0.030

Tangit Rapid solvent free adhesive for PVC-U and PVC-C

Tangit Rapid cartridges kit

- 2-Component-Adhesive
- For PVC-U and PVC-C
- Tangit Rapid Kit consists of 6 cartridges, 12 mixers and 2 plastic brushes
- Tool needed: Tangit Rapid dispenser and mixers
- Check for Chemical Resistance Tool on www.gfps.com/com/en/downloads-tools/online-tools/chemical-resistance.html

Language	Description	Code	Weight (kg)
GB, IT	50 ml	**799 302 043**	0.566
DE, ES, FR, GB, IT, NL, PT	400 ml	**799 302 007**	3.700

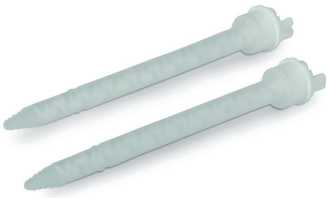
Tangit Rapid dispenser

- For Tangit Rapid cartridges

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

Tangit Rapid plastic brush

Dimension	Code	SP	Weight (kg)
3/8"	**799 302 021**	100	0.006
1"	**799 302 022**	100	0.008
2"	**799 302 023**	100	0.010



Tangit Rapid mixer set

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

description	Code	SP	Weight (kg)
50ml	**799 302 032**	1	0.160
400ml	**799 302 033**	1	0.190

Tangit Rapid pneumatic dispenser

- For Tangit Rapid cartridges
- Air Supply 8 bar (110/116 PSI), Air Consumption max. 40 litres/min

d-d (mm)	Code	SP	Weight (kg)	description
16 - 140	**799 302 014**	1	0.730	50ml
110 - 400	**799 302 015**	1	1.920	400ml

Tangit Rapid battery operated dispenser

- For Tangit Rapid cartridges
- Speed 4.5 mm/s, Battery 18V 2 Ah Li-Ion, including toolbox, one battery, charger 240V

d-d (mm)	Code	SP	Weight (kg)	description
110 - 400	**799 302 016**	1	7.841	400ml

Tangit KS Cleaner

- Special cleaning agent for plastic fusion connections with PP, PE, PVDF and PB.
- Suitable for Tangit Rapid. Must not be used for solvent cementing
- DW 5290 BR 0464
- DVGW approved

Code	SP	Number
200 000 523	8	1 liter

Tangit KS-Cleaning Tissues

- Special cleaning agent for plastic fusion connections with PP, PE, PVDF and PB.
- Suitable for Tangit Rapid. Must not be used for solvent cementing
- for plastic welding joints PB, PE, PP, PVDF
- DW 5290 BR 0464
- DVGW approved

Contents	Code	SP	Weight (kg)
1 dispenser with 100 tissues	**799 298 024**	8	0.333

IPS Weld-On® product range

WELD-ON 724™ CPVC Cement Grey Quart (946mL)

Colour: grey
- 2 year shelf life
- 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.

Code	SP
200 064 140	12

WELD-ON P-70™ Primer Clear Quart (946mL)

Colour: clear
- 3 year shelf life
- 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 (PN10 and higher) and large size pipe.
- Excellent for cold weather applications.

Code	SP
200 064 143	12

WELD-ON 845

Colour: Tan
- 1 year shelf life
- 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.

Product Description	Code	SP
WELD-ON 845 SML adhesive cartridge 43ml	**200 063 388**	1
WELD-ON 845 adhesive cartridge Tan 400ml	**200 064 148**	1

Accessories for 845 Cartridges

Product Description	Code	SP
Manual Dispensing Gun Small 50mL cartridge	**200 063 387**	1
Pneumatic Dispensing Gun 400ml cartridge	**200 064 145**	1
Manual Dispensing Gun 400ml cartridge	**200 064 146**	1
Mixing Tip for 400ml cartridge	**200 064 147**	1

Applicators / Cap Daubers

- DH daubers fit ¼ and ½ pint cans.
- DP daubers fit ½ pint and pint cans.
- DQ daubers fit quart cans.

Available in 3/8", 1/2" 3/4" and 1½"

Dauber Size (inch)	Pipe Size (inch)	Code	SP
	⅜	**200 064 151**	1
½	⅜ - 1	**200 064 152**	1
¾	⅜ - 1 ½	**200 064 153**	1
1 ½	⅜ - 3	**200 064 154**	1

5020: 4" swab

- 4" swab for pipe diameters from 3" through 8"; fits standard quart can as well as MT-651 empty quart can.

Product Description	Code	SP
4" swab for pipe 6" and above	**200 064 149**	1
4" swab for pipe 3" to 8"	**200 064 150**	1

Tools

PPC Plastic pipe cutter

Model:

- For cutting of plastic pipes d6 - d160
- Suitable for all GF plastic types PE, PVC-U, PVC-C, ABS, PP, PVDF, ECTFE
- Removable deburring tool integrated

Note:

* Additional spare cutting wheel included in the handle

	d (mm)	Article	Code	Weight (kg)	Closest inch (inch)
*	6 - 63	PPC 63, s max. = 7.2mm	**790 109 094**	0.785	⅛ - 2
	50 - 125	PPC 110, s max. = 12.7mm	**790 109 095**	1.875	1 ½ - 4
	110 - 160	PPC 160, s max. = 19.0mm	**790 109 096**	2.255	4 - 6
	6 - 63	Spare cutting wheel d6-63mm (3 Pcs./Pu.)	**790 109 097**	0.010	
	50-125 / 110-160	Spare cutting wheel d50-125mm / d110-160mm (2 Pcs./Pu.)	**790 109 098**	0.030	

Chamfering / deburring tool

- 10 mm - 54 mm / 1/2" - 2"
- Inside and outside
- Ideal for adhesive jointing

Code	SP	Weight (kg)
790 205 085	1	0.450

Chamfering tools

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

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

Deburring tool

- Replacable blade

Code	SP	Weight (kg)
790 205 082	1	0.058

Marker

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

Round brush

#	d-d (mm)	Code	SP	Weight (kg)	Closest inch (inch)
4 mm (for Fittings 6-10mm)	6 - 10	**799 299 001**	12	0.004	⅛
8 mm (for Fittings 12-32mm)	12 - 32	**799 299 002**	12	0.006	¼ - 1

Flat brush

d-d (mm)	#	Code	SP	Weight (kg)	Closest inch (inch)
40 - 63	25x3 mm (for Fittings 40-63mm)	**799 299 003**	12	0.015	1 ¼ - 2
75 - 225	50x5 mm (for Fittings 75-225mm)	**799 299 004**	12	0.035	2 ½ - 8
250 - 400	75x6 mm (for Fittings 250-400mm)	**799 299 005**	12	0.053	9 - 16

Tangit Ruler with marking for insertion depth

d-d (mm)	Code	SP	Weight (kg)
16 - 400	**799 302 036**	50	0.044

PVC-C Schedule 80 Pipes and Fittings

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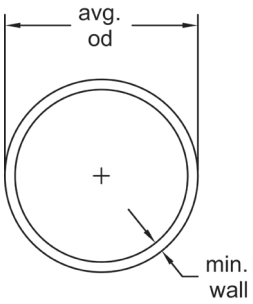
PVC-C Schedule 80 Pressure Pipe

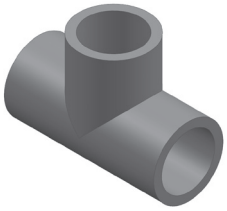


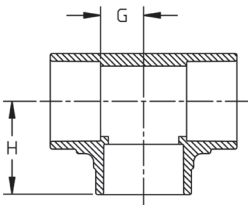
PVC-C Schedule 80 Plain End Pipe - 20 Ft Lengths

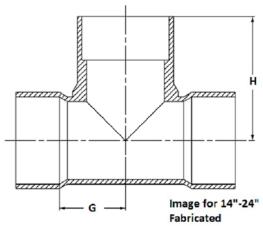
- Max Water Pressure at 73°F (22.7°C) with solvent-cemented joints

Size (inch)	P/L	Plain End Code	Lift Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
¼	H06	**H0800025CG2000**	5700	0.540	0.119	0.112	1130
⅜	H06	**H0800038CG2000**	5700	0.675	0.126	0.154	920
½	H06	**H0800050CG2000**	5700	0.840	0.147	0.225	850
¾	H06	**H0800075CG2000**	5260	1.050	0.154	0.305	690
1	H06	**H0800100CG2000**	4280	1.315	0.179	0.449	630
1 ¼	H06	**H0800125CG2000**	2360	1.660	0.191	0.618	520
1 ½	H06	**H0800150CG2000**	2060	1.900	0.200	0.751	470
2	H06	**H0800200CG2000**	1660	2.375	0.218	1.040	400
2 ½	H06	**H0800250CG2000**	1080	2.875	0.276	1.584	420
3	H06	**H0800300CG2000**	840	3.500	0.300	2.124	370
3 ½	H06	**H0800350CG2000**	680	4.000	0.318	2.607	350
4	H06	**H0800400CG2000**	520	4.500	0.337	3.105	320
5	H06	**H0800500CG2000**	400	5.563	0.375	4.343	290
6	H06	**H0800600CG2000**	340	6.625	0.432	5.929	280
8	H06	**H0800800CG2000**	220	8.625	0.500	9.051	250
10	H06	**H0801000CG2000**	80	10.750	0.593	13.429	230
12	H06	**H0801200CG2000**	60	12.750	0.687	18.458	230
14	H06	**H0801400CG2000**	60	14.000	0.750	22.224	220
16	H06	**H0801600CG2000**	60	16.000	0.843	28.557	220
18	H06	**H0801800CG2000**	40	18.000	0.937	35.745	220
20	H06	**H0802000CG2000**	40	20.000	1.031	45.022	220
24	H06	**H0802400CG2000**	40	24.000	1.218	63.878	210

PVC-C Schedule 80 Pressure Fittings

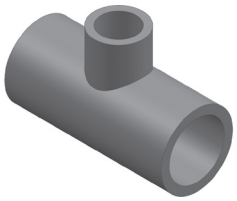


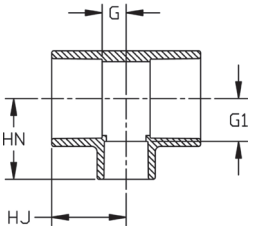


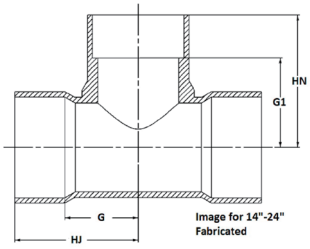


Tee (S x S x S)

Size (inch)	P/L	Code	Pack Qty	H (inch)	G (inch)	Design
½	25	**9801-005**	25	1.41	0.51	SL
¾	25	**9801-007**	15	1.60	0.58	SL
1	25	**9801-010**	20	1.85	0.71	SL
1 ¼	25	**9801-012**	5	2.17	0.91	SL
1 ½	25	**9801-015**	5	2.43	1.04	SL
2	25	**9801-020**	5	2.81	1.30	SL
2 ½	25	**9801-025**	5	3.31	1.55	SL
3	25	**9801-030**	5	3.71	1.81	SL
4	25	**9801-040**	5	4.60	2.33	SL
6	25	**9801-060**	2	6.53	3.51	SL
8	25	**9801-080**	1	8.66	4.58	SL
10	02	**9801-100**	1	10.79	5.78	SL
12	02	**9801-120**	1	12.96	6.94	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
¾ x ½	25	**9801-101**	25	1.62	1.62	0.60	0.72	SL
1 x ½	25	**9801-130**	25	1.87	1.64	0.72	0.74	SL
1 x ¾	25	**9801-131**	25	1.86	1.89	0.72	0.75	SL
1 ¼ x ½	625	**9801-166FB**	20	1.99	2.35	0.73	1.47	BUSH
1 ¼ x ¾	625	**9801-167FB**	20	1.99	2.35	0.73	1.33	BUSH
1 ¼ x 1	25	**9801-168**	20	2.01	2.05	0.73	0.91	SL
1 ½ x ½	25	**9801-209**	5	1.92	1.91	0.53	1.03	SL
1 ½ x ¾	25	**9801-210**	5	1.99	2.07	0.60	1.05	SL
1 ½ x 1	25	**9801-211**	5	2.12	2.17	0.72	1.03	SL
1 ½ x 1 ¼	625	**9801-212FB**	5	2.44	2.74	1.04	1.47	BUSH
2 x ½	25	**9801-247**	5	1.99	2.16	0.54	1.28	SL
2 x ¾	25	**9801-248**	5	2.22	2.31	0.60	1.30	SL
2 x 1	25	**9801-249**	5	2.24	2.42	0.72	1.27	SL
2 x 1 ¼	625	**9801-250FB**	5	2.81	3.11	1.30	1.84	BUSH
2 x 1 ½	25	**9801-251**	5	2.54	2.66	1.03	1.27	SL
2 ½ x ½	625	**9801-287FB**	5	3.05	3.35	1.28	2.44	BUSH
2 ½ x ¾	625	**9801-288FB**	5	3.05	3.35	1.28	2.33	BUSH
2 ½ x 1	625	**9801-289FB**	5	3.05	3.36	1.28	2.22	BUSH
2 ½ x 1 ¼	625	**9801-290FB**	5	3.05	3.34	1.28	2.07	BUSH
2 ½ x 1 ½	625	**9801-291FB**	5	3.05	3.35	1.28	1.94	BUSH
2 ½ x 2	25	**9801-292**	5	3.05	3.05	1.28	1.54	SL
3 x ½	625	**9801-333FB**	5	3.20	3.68	1.30	2.77	BUSH
3 x ¾	625	**9801-334FB**	5	3.20	3.68	1.30	2.66	BUSH
3 x 1	625	**9801-335FB**	5	3.20	3.69	1.30	2.55	BUSH
3 x 1 ¼	625	**9801-336FB**	5	3.20	3.67	1.30	2.40	BUSH
3 x 1 ½	625	**9801-337FB**	5	3.20	3.68	1.30	2.27	BUSH
3 x 2	25	**9801-338**	5	3.20	3.39	1.30	1.87	SL
3 x 2 ½	625	**9801-339FB**	5	3.73	4.07	1.81	2.17	BUSH
4 x ½	625	**9801-415FB**	5	3.52	4.19	1.27	3.28	BUSH

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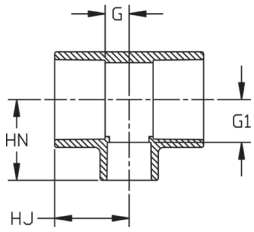

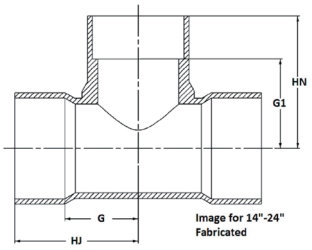

Size (inch)	P/L	Code	Pack Qty	HJ (inch)	HN (inch)	G (inch)	G1 (inch)	Design
4 x ¾	625	**9801-416FB**	5	3.52	4.19	1.27	3.17	BUSH
4 x 1	625	**9801-417FB**	5	3.53	4.12	1.26	3.00	BUSH
4 x 1 ¼	625	**9801-418FB**	5	3.52	4.18	1.27	2.91	BUSH
4 x 1 ½	625	**9801-419FB**	5	3.52	4.19	1.27	2.78	BUSH
4 x 2	25	**9801-420**	5	3.54	3.87	1.27	2.37	SL
4 x 2 ½	625	**9801-421FB**	5	4.14	4.62	1.85	2.73	BUSH
4 x 3	25	**9801-422**	5	4.13	4.26	1.85	2.35	SL
6 x ½	625	**9801-523FB**	1	6.56	7.42	3.56	6.52	BUSH
6 x ¾	625	**9801-524FB**	1	6.56	7.43	3.49	6.41	BUSH
6 x 1	625	**9801-525FB**	2	6.56	7.44	3.49	6.29	BUSH
6 x 1 ¼	625	**9801-526FB**	2	6.56	7.42	3.49	6.15	BUSH
6 x 1 ½	625	**9801-527FB**	1	6.56	7.42	3.49	6.02	BUSH
6 x 2		**9801-528**	2	4.45	5.25	1.43	3.74	
6 x 2 ½	625	**9801-529FB**	2	6.56	7.52	3.49	5.62	BUSH
6 x 3	25	**9801-530FB**	2	6.56	7.21	3.49	5.25	BUSH
6 x 4	25	**9801-532**	2	6.57	6.80	3.49	4.47	HS
8 x 4	625	**9801-582FB**	1	7.63	8.09	3.59	5.84	BUSH
8 x 5	625	**9801-583FB**	1	7.58	8.01	3.49	5.37	FAB
8 x 6	25	**9801-585**	1	7.65	7.54	3.55	4.63	SL
10 x 2		**9801-619N**	1	10.75	12.00	5.75	11.00	
10 x 3		**9801-621N**	1	10.75	12.00	5.75	9.50	
10 x 4		**9801-623N**	1	10.75	11.50	5.75	9.50	
10 x 6	B10	**9801-626FB**	1	10.83	11.43	5.78	8.33	BUSH
10 x 6		**9801-626N**	1	11.88	12.50	6.88	9.50	
10 x 8	02	**9801-628FB**	1	10.83	11.46	5.78	7.36	BUSH
10 x 8		**9801-628N**	1	13.00	13.50	8.00	9.50	
12 x 2		**9801-659N**	1	12.00	13.25	6.00	11.75	
12 x 3		**9801-661N**	1	12.00	13.25	6.00	11.25	
12 x 4		**9801-663N**	1	12.00	12.75	6.00	10.75	
12 x 6		**9801-666N**	1	13.13	13.75	7.13	10.75	
12 x 8	02	**9801-668FB**	1	12.99	13.67	6.94	9.58	BUSH
12 x 8		**9801-668N**	1	14.13	14.75	8.13	10.75	
12 x 10	02	**9801-670FB**	1	12.99	13.68	6.94	8.57	BUSH
12 x 10		**9801-670N**	1	15.13	15.75	9.13	10.75	
14 x 2		**9801-692N**	1	13.13	14.00	6.13	11.50	
14 x 3		**9801-694N**	1	13.13	14.00	6.13	11.50	
14 x 4		**9801-696N**	1	13.13	13.50	6.13	11.50	
14 x 6		**9801-698N**	1	14.25	14.50	7.25	11.50	
14 x 8		**9801-700N**	1	15.25	15.50	8.25	11.50	
14 x 10		**9801-702N**	1	16.25	16.50	9.25	11.50	
14 x 12		**9801-704N**	1	17.25	18.50	10.25	12.50	
16 x 2		**9801-726N**	1	14.38	15.25	6.38	12.75	
16 x 3		**9801-728N**	1	14.38	15.25	6.38	14.25	
16 x 4		**9801-730N**	1	14.38	14.75	6.38	12.75	
16 x 6		**9801-732N**	1	15.50	15.75	7.50	12.75	
16 x 8		**9801-734N**	1	16.50	16.75	8.50	12.75	
16 x 10		**9801-736N**	1	17.50	17.75	9.50	12.75	
16 x 12	A34	**9801-738N**	1	18.50	19.75	10.50	13.75	FAB
16 x 14		**9801-740N**	1	19.13	20.75	11.75	13.75	
18 x 4		**9801-784N**	1	15.63	16.00	6.63	14.00	
18 x 6		**9801-786N**	1	16.75	17.00	7.75	14.00	
18 x 8		**9801-788N**	1	17.75	18.00	8.75	14.00	
18 x 10		**9801-790N**	1	18.75	19.00	9.75	14.00	
18 x 12		**9801-792N**	1	19.75	21.00	10.75	15.00	
18 x 14		**9801-794N**	1	20.88	22.00	11.88	15.00	
18 x 16		**9801-796N**	1	21.38	24.00	12.38	16.00	
20 x 4		**9801-814N**	1	16.88	17.25	6.88	15.25	
20 x 6		**9801-816N**	1	18.00	18.25	8.00	15.25	
20 x 8		**9801-818N**	1	19.00	19.25	9.00	15.25	
20 x 10		**9801-820N**	1	20.00	20.25	10.00	15.25	
20 x 12		**9801-822N**	1	21.00	22.25	11.00	16.25	
20 x 14		**9801-824N**	1	21.63	23.25	11.63	16.25	
20 x 16		**9801-826N**	1	22.63	25.25	12.63	17.25	

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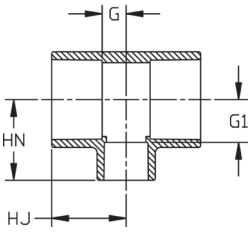
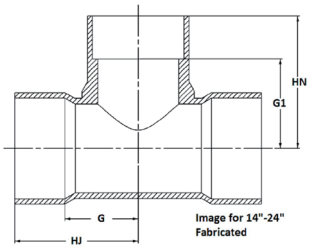
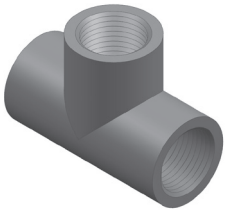
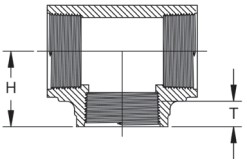




Size (inch)	P/L	Code	Pack Qty	HJ (inch)	HN (inch)	G (inch)	G1 (inch)	Design
20 x 18		**9801-828N**	1	23.63	27.25	13.63	18.25	
24 x 4		**9801-904N**	1	19.38	19.50	7.38	17.50	
24 x 6		**9801-906N**	1	20.50	20.50	8.50	17.50	
24 x 8		**9801-908N**	1	21.50	21.50	9.50	17.50	
24 x 10		**9801-910N**	1	22.50	22.50	10.50	17.50	
24 x 12		**9801-912N**	1	23.50	24.50	11.50	18.50	
24 x 14		**9801-914N**	1	24.13	25.50	12.13	18.50	
24 x 16		**9801-916N**	1	25.13	27.50	13.13	19.50	
24 x 18		**9801-918N**	1	26.13	29.50	14.13	20.50	
24 x 20		**9801-920N**	1	27.13	30.50	15.13	20.50	

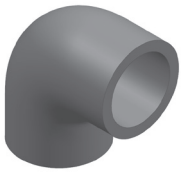
Tee (FPT x FPT x FPT)

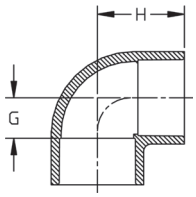


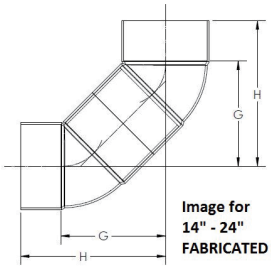


Size (inch)	P/L	Code	Pack Qty	H (inch)	T (inch)	Design
¼	25	**9805-002**	50	0.94	0.59	HS
⅜	25	**9805-003**	50	1.01	0.60	HS
½	25	**9805-005**	25	1.26	0.76	HS
¾	25	**9805-007**	15	1.36	0.72	HS
1	25	**9805-010**	15	1.79	0.99	HS
1 ¼	25	**9805-012**	10	1.93	1.01	HS
1 ½	25	**9805-015**	10	2.08	1.03	HS
2	25	**9805-020**	5	2.39	1.06	HS
2 ½	25	**9805-025**	5	2.87	1.35	HS
3	25	**9805-030**	5	3.52	1.65	HS
4	25	**9805-040**	5	4.07	1.72	HS

90° Ell (S x S)

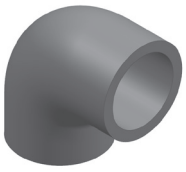


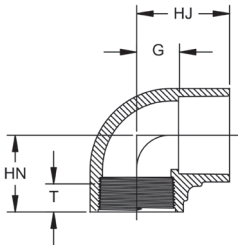




Size (inch)	P/L	Code	Pack Qty	H (inch)	G (inch)	Design
¼	625	**9806-002**	50	0.96	0.35	HS
½	25	**9806-005**	25	1.41	0.51	SL
¾	25	**9806-007**	25	1.60	0.57	SL
1	25	**9806-010**	10	1.83	0.68	SL
1 ¼	25	**9806-012**	10	2.18	0.90	SL
1 ½	25	**9806-015**	10	2.43	1.04	SL
2	25	**9806-020**	20	2.80	1.27	SL
2 ½	25	**9806-025**	5	3.33	1.53	SL
3	25	**9806-030**	5	3.73	1.81	SL
4	25	**9806-040**	5	4.63	2.32	SL
6	25	**9806-060**	2	6.56	3.53	SL
8	25	**9806-080**	1	8.68	4.55	SL
10	02	**9806-100**	1	10.79	5.77	SL
12	02	**9806-120**	1	12.92	6.87	SL
14	A34	**9806-140N**	1	26.00	19.00	FAB
16	A34	**9806-160N**	1	29.00	21.00	FAB
18	A34	**9806-180N**	1	33.50	24.50	FAB
20	A34	**9806-200N**	1	35.75	25.75	FAB
24	A34	**9806-240N**	1	43.00	31.00	FAB

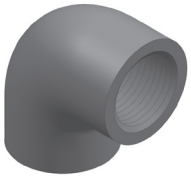
90° Ell (S x FPT)

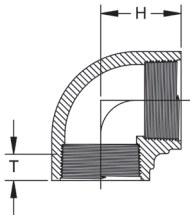




Size (inch)	P/L	Code	Pack Qty	HJ (inch)	HN (inch)	G (inch)	T (inch)	Design
½	25	**9807-005**	25	1.40	1.31	0.50	0.81	HS
¾	25	**9807-007**	25	1.59	1.36	0.58	0.72	HS
1	25	**9807-010**	10	1.81	1.70	0.67	1.00	HS
1 ¼	625	**9807-012**	10	2.15	1.92	0.89	1.03	HS
1 ½	625	**9807-015**	10	2.39	2.05	1.01	1.05	HS
2	625	**9807-020**	5	2.77	2.36	1.24	1.09	HS
3	625	**9807-030**	5	3.73	3.47	1.83	1.66	HS

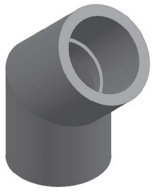
90° Ell (FPT x FPT)

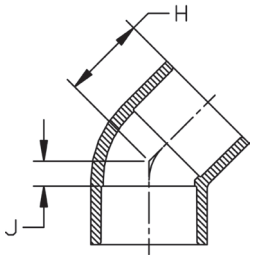


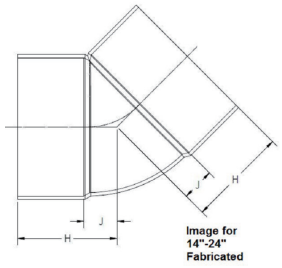


Size (inch)	P/L	Code	Pack Qty	H (inch)	T (inch)	Design
¼	25	**9808-002**	50	0.94	0.61	HS
⅜	25	**9808-003**	50	1.00	0.63	HS
½	25	**9808-005**	25	1.27	0.78	HS
¾	25	**9808-007**	20	1.36	0.72	HS
1	25	**9808-010**	10	1.71	1.00	HS
1 ¼	25	**9808-012**	10	1.92	1.01	HS
1 ½	25	**9808-015**	10	2.08	1.06	HS
2	25	**9808-020**	5	2.36	1.08	HS
2 ½	25	**9808-025**	5	3.36	1.51	HS
3	25	**9808-030**	5	3.53	1.63	HS
4	25	**9808-040**	5	4.17	1.75	HS

45° Ell (S x S)

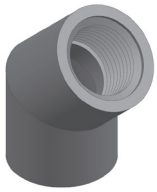


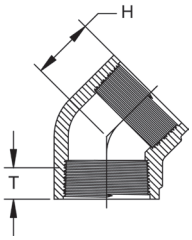




Size (inch)	P/L	Code	Pack Qty	H (inch)	J (inch)	Design
½	25	**9817-005**	25	1.22	0.30	SL
¾	25	**9817-007**	20	1.29	0.28	SL
1	25	**9817-010**	25	1.48	0.32	SL
1 ¼	25	**9817-012**	15	1.78	0.47	SL
1 ½	25	**9817-015**	10	1.88	0.45	SL
2	25	**9817-020**	5	2.16	0.60	SL
2 ½	25	**9817-025**	5	2.56	0.79	SL
3	25	**9817-030**	5	2.67	0.77	SL
4	25	**9817-040**	5	3.31	1.04	SL
6	25	**9817-060**	2	4.86	1.77	SL
8	25	**9817-080**	2	6.15	2.07	SL
10	02	**9817-100**	1	7.51	2.46	SL
12	02	**9817-120**	1	9.00	2.96	SL
14	A34	**9817-140N**	1	10.25	3.50	FAB
16	A34	**9817-160N**	1	11.75	3.75	FAB
18	A34	**9817-180N**	1	13.25	4.25	FAB
20	A34	**9817-200N**	1	14.75	4.75	FAB
24	A34	**9817-240N**	1	17.75	5.75	FAB

45° Ell (FPT x FPT)

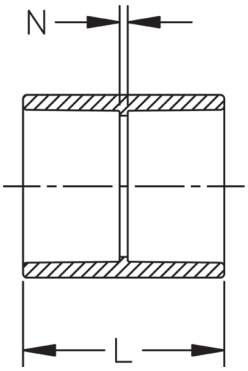




Size (inch)	P/L	Code	Pack Qty	H (inch)	T (inch)	Design
¼	25	**9819-002**	50	0.69	0.59	HS
½	25	**9819-005**	25	1.02	0.76	HS
¾	25	**9819-007**	20	1.14	0.81	HS
1	25	**9819-010**	25	1.33	0.97	HS
1 ¼	25	**9819-012**	15	1.42	1.01	HS
1 ½	25	**9819-015**	10	1.47	1.07	HS
2	25	**9819-020**	5	1.74	2.37	HS
3	25	**9819-030**	5	2.43	1.66	HS
4	25	**9819-040**	5	2.78	1.76	HS

Couplers & adapters

Coupling (S x S)



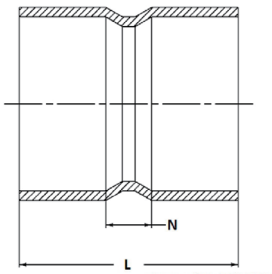
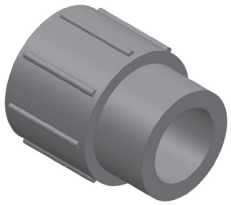
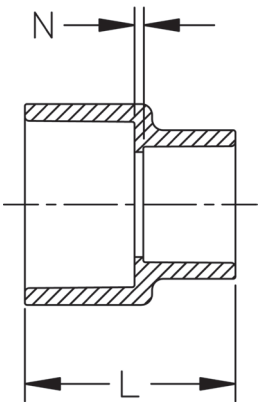
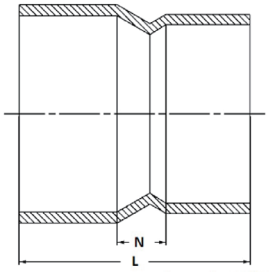


Image for 14"-24" Fabricated

Size (inch)	P/L	Code	Pack Qty	L (inch)	N (inch)	Design
½	25	**9829-005**	25	1.93	0.12	SL
¾	25	**9829-007**	20	2.18	0.12	SL
1	25	**9829-010**	25	2.41	0.12	SL
1 ¼	25	**9829-012**	25	2.67	0.13	SL
1 ½	25	**9829-015**	10	2.94	0.15	SL
2	25	**9829-020**	5	3.18	0.13	SL
2 ½	25	**9829-025**	5	3.77	0.19	SL
3	25	**9829-030**	5	4.04	0.26	SL
4	25	**9829-040**	5	4.80	0.26	SL
6	25	**9829-060**	2	6.40	0.36	SL
8	25	**9829-080**	2	8.40	0.35	SL
10	02	**9829-100**	1	10.77	0.75	SL
12	02	**9829-120**	1	12.82	0.75	SL
14	A34	**9829-140N**	1	17.75	3.75	FAB
16	A34	**9829-160N**	1	20.25	4.25	FAB
18	A34	**9829-180N**	1	22.75	4.75	FAB
20	A34	**9829-200N**	1	25.25	5.25	FAB
24	A34	**9829-240N**	1	30.25	6.25	FAB





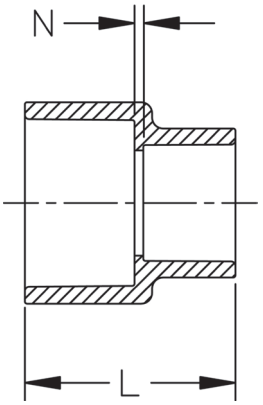


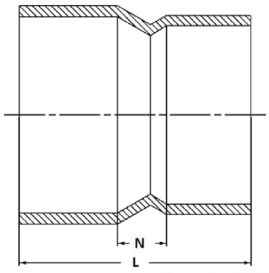
Imgae for 14"-24" Fabricated

Reducing Coupling (S x S)

Size (inch)	P/L	Code	Pack Qty	L (inch)	N (inch)	Design
¾ x ½	25	**9829-101**	25	2.13	0.13	HS
1 x ½	25	**9829-130**	25	2.17	0.12	HS
1 x ¾	25	**9829-131**	25	2.26	0.11	HS
1 ¼ x ¾	625	**9829-167FB**	15	2.94	0.66	BUSH
1 ¼ x 1	625	**9829-168FB**	15	2.52	0.10	BUSH
1 ½ x ½	25	**9829-209FB**	15	2.94	0.64	BUSH
1 ½ x ¾	625	**9829-210FB**	15	2.50	0.54	BUSH
1 ½ x 1	25	**9829-211**	15	2.65	0.11	HS
1 ½ x 1 ¼	25	**9829-212**	20	2.82	0.09	HS
2 x ½	25	**9829-247FB**	5	3.44	0.87	BUSH
2 x ¾	25	**9829-248FB**	5	3.39	0.77	BUSH
2 x 1	25	**9829-249**	5	3.15	0.32	HS
2 x 1 ¼	25	**9829-250**	5	3.05	0.14	HS
2 x 1 ½	25	**9829-251**	5	3.06	0.07	HS
2 ½ x 1 ½	25	**9829-291**	5	3.36	0.14	HS
2 ½ x 2	625	**9829-292FB**	5	4.08	0.66	BUSH
3 x 1	625	**9829-335FB**	5	4.56	1.53	BUSH
3 x 1 ½	625	**9829-337FB**	5	4.58	1.15	BUSH
3 x 2	25	**9829-338**	5	3.61	0.17	HS
3 x 2 ½	625	**9829-339FB**	5	4.42	0.63	BUSH
4 x 2	25	**9829-420FB**	5	4.94	1.08	BUSH
4 x 2 ½	625	**9829-421FB**	5	4.92	0.65	BUSH
4 x 3	25	**9829-422**	5	4.38	0.22	HS
6 x 3	625	**9829-530FB**	2	10.65	4.23	BUSH
6 x 4	25	**9829-532**	2	10.17	3.46	HS
8 x 4	25	**9829-582FB**	2	9.81	3.53	BUSH
8 x 6	25	**9829-585**	2	9.18	2.11	HS
10 x 4	A34	**9829-623N**	1	17.00	10.00	FAB
10 x 6	02	**9829-626FB**	1	11.42	3.29	BUSH
10 x 6	A34	**9829-626N**	1	13.00	5.00	FAB
10 x 8	02	**9829-628FB**	1	11.45	2.32	BUSH
10 x 8	A34	**9829-628N**	1	12.75	3.75	FAB
12 x 4	A34	**9829-663N**	1	26.25	18.25	FAB
12 x 6	A34	**9829-666N**	1	20.50	11.50	FAB
12 x 8	02	**9829-668FB**	1	13.54	3.41	BUSH
12 x 8	A34	**9829-668N**	1	15.50	5.50	FAB
12 x 10	02	**9829-670FB**	1	13.24	2.13	BUSH
12 x 10	A34	**9829-670N**	1	15.00	4.00	FAB
14 x 4	A34	**9829-696N**	1	13.00	3.00	FAB
14 x 6	A34	**9829-698N**	1	31.00	21.00	FAB
14 x 8	A34	**9829-700N**	1	21.00	10.00	FAB
14 x 10	A34	**9829-702N**	1	17.00	5.00	FAB
14 x 12	A34	**9829-704N**	1	16.50	3.50	FAB
16 x 4	A34	**9829-730N**	1	16.50	3.50	FAB
16 x 6	A34	**9829-732N**	1	16.50	4.50	FAB
16 x 8	A34	**9829-734N**	1	18.05	5.00	FAB
16 x 10	A34	**9829-736N**	1	19.00	5.10	FAB
16 x 12	A34	**9829-738N**	1	19.25	5.25	FAB
16 x 14	A34	**9829-740N**	1	19.50	4.50	FAB
18 x 4	A34	**9829-784N**	1	48.50	37.50	FAB
18 x 6	A34	**9829-786N**	1	36.00	24.00	FAB
18 x 8	A34	**9829-788N**	1	42.50	29.50	FAB
18 x 10	A34	**9829-790N**	1	33.50	19.50	FAB
18 x 12	A34	**9829-792N**	1	22.00	7.00	FAB
18 x 14	A34	**9829-794N**	1	22.25	6.25	FAB
18 x 16	A34	**9829-796N**	1	21.75	4.75	FAB
20 x 4	A34	**9829-814N**	1	60.50	48.50	FAB
20 x 6	A34	**9829-816N**	1	55.50	42.50	FAB
20 x 8	A34	**9829-818N**	1	56.25	42.25	FAB
20 x 10	A34	**9829-820N**	1	47.25	32.25	FAB
20 x 12	A34	**9829-822N**	1	37.00	21.00	FAB

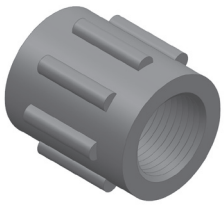
table continued on the next page

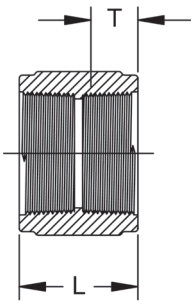




Imgae for 14"-24" Fabricated

Size (inch)	P/L	Code	Pack Qty	L (inch)	N (inch)	Design
20 x 14	A34	**9829-824N**	1	37.25	20.25	FAB
20 x 16	A34	**9829-826N**	1	24.50	6.50	FAB
20 x 18	A34	**9829-828N**	1	24.00	5.00	FAB
24 x 4	A34	**9829-904N**	1	66.00	52.00	FAB
24 x 6	A34	**9829-906N**	1	61.00	46.00	FAB
24 x 8	A34	**9829-908N**	1	52.00	36.00	FAB
24 x 10	A34	**9829-910N**	1	52.75	35.75	FAB
24 x 12	A34	**9829-912N**	1	42.50	24.50	FAB
24 x 14	A34	**9829-914N**	1	42.75	23.75	FAB
24 x 16	A34	**9829-916N**	1	42.25	22.25	FAB
24 x 18	A34	**9829-918N**	1	29.50	8.50	FAB
24 x 20	A34	**9829-920N**	1	29.25	7.25	FAB

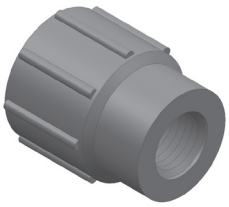


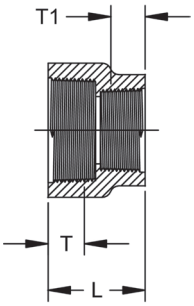


Coupling (FPT x FPT)

Size (inch)	P/L	Code	Pack Qty	L (inch)	T (inch)	Design
¼	25	**9830-002**	50	1.29	0.61	HS
⅜	25	**9830-003**	50	1.35	0.62	HS
½	25	**9830-005**	25	1.68	0.77	HS
¾	25	**9830-007**	25	1.75	0.80	HS
1	25	**9830-010**	25	2.13	0.99	HS
1 ¼	25	**9830-012**	25	2.19	1.03	HS
1 ½	25	**9830-015**	10	2.22	1.03	HS
2	25	**9830-020**	5	2.29	1.08	HS
2 ½	625	**9830-025**	5	3.33	1.51	SL
3	25	**9830-030**	5	3.53	1.65	HS
4	25	**9830-040**	5	3.76	1.75	HS

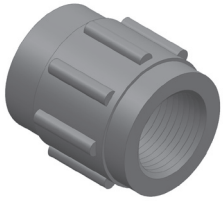
Reducing Coupling (FPT x FPT)

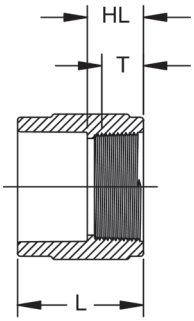




Size (inch)	P/L	Code	Pack Qty	L (inch)	T (inch)	T1 (inch)	Design
⅜ x ¼	625	**9830-052**	50	1.29	0.60	0.59	HS
½ x ¼	25	**9830-072**	50	1.45	0.75	0.59	HS
½ x ⅜	25	**9830-073**	50	1.46	0.74	0.60	HS
¾ x ½	25	**9830-101**	25	1.69	0.78	0.78	HS
1 x ½	25	**9830-130**	25	1.84	0.98	0.77	HS
1 x ¾	25	**9830-131**	25	1.88	0.98	0.80	HS
1 ¼ x ¾	625	**9830-167**	25	1.90	1.00	0.79	HS
1 ½ x 1	25	**9830-211**	20	2.06	1.02	0.95	HS

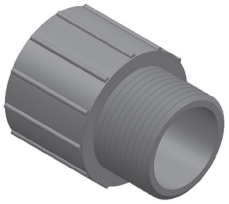
Female Adapter (S x FPT)

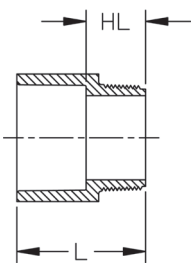




Size (inch)	P/L	Code	Pack Qty	HL (inch)	L (inch)	T (inch)	Design
¼	25	**9835-002**	50	0.75	1.43	0.58	HS
½	25	**9835-005**	25	0.91	1.80	0.75	HS
¾	25	**9835-007**	20	0.95	1.96	0.79	HS
1	25	**9835-010**	25	1.11	2.27	0.98	HS
1 ¼	25	**9835-012**	10	1.18	2.44	1.02	HS
1 ½	25	**9835-015**	10	1.19	2.59	1.03	HS
2	25	**9835-020**	5	1.25	2.76	1.06	HS
3	25	**9835-030**	5	1.91	3.80	1.65	HS
4	25	**9835-040**	5	2.02	4.29	1.74	HS
6	A34	**9835-060N**	1	4.50	7.50	1.51	
8	A34	**9835-080N**	1	4.25	8.50	1.71	
10	A34	**9835-100N**	1	5.00	10.00	2.00	
12		**9835-120N**	1	6.00	11.13	2.13	

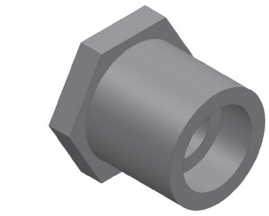
Male Adapter (S x MPT)

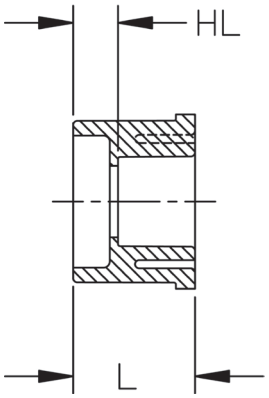




Size (inch)	P/L	Code	Pack Qty	HL (inch)	L (inch)	Design
½	25	**9836-005**	50	0.94	1.85	HS
¾	25	**9836-007**	25	1.05	2.03	SL
1	25	**9836-010**	25	1.22	2.38	HS
1 ¼	25	**9836-012**	15	1.28	2.56	HS
1 ½	25	**9836-015**	15	1.30	2.69	HS
2	25	**9836-020**	5	1.32	2.83	HS
3	25	**9836-030**	5	1.99	3.90	HS
4	25	**9836-040**	5	2.15	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	

Reducers

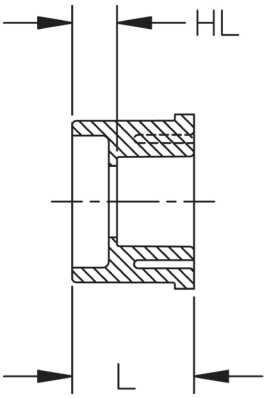




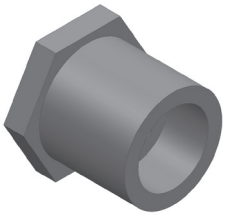
Flush Style Reducer Bushing (Spg x S)

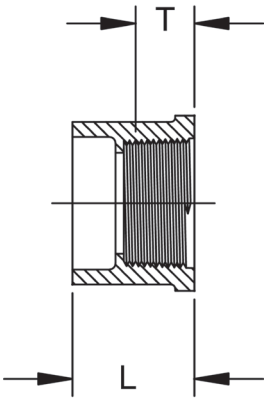
Size (inch)	P/L	Code	Pack Qty	HL (inch)	L (inch)	Design
½ x ¼	25	**9837-072**	50	0.47	1.15	FLUSH
½ x ⅜	25	**9837-073**	50	0.33	1.09	FLUSH
¾ x ½	25	**9837-101**	50	0.42	1.30	FLUSH
1 x ½	25	**9837-130**	50	0.55	1.44	FLUSH
1 x ¾	25	**9837-131**	50	0.41	1.43	FLUSH
1 ¼ x ½	25	**9837-166**	25	0.66	1.55	FLUSH
1 ¼ x ¾	25	**9837-167**	25	0.56	1.57	FLUSH
1 ¼ x 1	25	**9837-168**	25	0.44	1.59	FLUSH
1 ½ x ½	25	**9837-209**	25	0.78	1.69	FLUSH
1 ½ x ¾	25	**9837-210**	25	0.67	1.68	FLUSH
1 ½ x 1	25	**9837-211**	25	0.55	1.69	FLUSH
1 ½ x 1 ¼	25	**9837-212**	25	0.44	1.72	FLUSH
2 x ½	25	**9837-247**	10	0.91	1.81	FLUSH
2 x ¾	25	**9837-248**	10	0.79	1.82	FLUSH
2 x 1	25	**9837-249**	10	0.68	1.83	FLUSH
2 x 1 ¼	25	**9837-250**	10	0.54	1.81	FLUSH
2 x 1 ½	25	**9837-251**	10	0.40	1.81	FLUSH
2 ½ x 1 ½	25	**9837-291**	5	0.79	2.31	FLUSH
2 ½ x 2	25	**9837-292**	5	0.47	2.10	FLUSH
3 x 1		**9837-335**	5	1.27	2.42	
3 x 1 ¼	A34	**9837-336FB**	5	1.43	2.71	FAB
3 x 1 ½	25	**9837-337**	5	0.89	2.43	FLUSH
3 x 2	25	**9837-338**	5	0.86	2.42	FLUSH
3 x 2 ½	25	**9837-339**	5	0.38	2.27	FLUSH
4 x 2	25	**9837-420**	5	1.14	2.70	FLUSH
4 x 2 ½	625	**9837-421FB**	5	1.40	2.96	BUSH
4 x 3	25	**9837-422**	5	0.77	2.74	FLUSH
6 x ¾	625	**9837-524FB**	2	1.79	4.38	BUSH
6 x 1	625	**9837-525FB**	2	1.79	4.10	BUSH
6 x 1 ½	625	**9837-527FB**	2	1.79	4.10	BUSH
6 x 2	625	**9837-528FB**	2	1.13	4.03	BUSH
6 x 2 ½	625	**9837-529FB**	2	1.79	3.95	BUSH
6 x 3	25	**9837-530**	2	1.74	3.65	FLUSH
6 x 4	25	**9837-532**	2	1.42	3.67	FLUSH
8 x 1 ½	625	**9837-577FB**	1	1.56	5.66	BUSH
8 x 2	625	**9837-578FB**	1	1.56	5.59	BUSH
8 x 3	625	**9837-580FB**	1	1.56	5.15	BUSH
8 x 4	625	**9837-582FB**	1	1.56	5.15	BUSH
8 x 5	625	**9837-583FB**	1	2.44	5.09	FAB
8 x 6	25	**9837-585**	1	1.69	4.66	FLUSH
10 x 2	625	**9837-619FB**	1	2.57	6.66	BUSH
10 x 3	B10	**9837-621FB**	1	2.57	6.15	BUSH
10 x 4	02	**9837-623FB**	1	4.01	6.26	BUSH
10 x 6	02	**9837-626**	1	2.59	5.69	FLUSH
10 x 8	02	**9837-628**	1	1.62	5.72	FLUSH
12 x 3	B10	**9837-662FB**	1	1.63	7.78	BUSH
12 x 4	625	**9837-663FB**	1	1.63	7.78	BUSH
12 x 6	02	**9837-666FB**	1	4.26	7.35	BUSH
12 x 8	02	**9837-668**	1	2.66	6.76	FLUSH
12 x 10	02	**9837-670**	1	1.66	6.77	FLUSH
14 x 4	A34	**9837-696N**	1	5.50	7.50	FAB
14 x 6	A34	**9837-698N**	1	4.50	7.50	FAB
14 x 8	A34	**9837-700N**	1	3.50	7.50	FAB
14 x 10	A34	**9837-702N**	1	2.50	7.50	FAB
14 x 12	A34	**9837-704N**	1	1.50	7.50	FAB
16 x 4	A34	**9837-730N**	1	6.50	8.50	FAB
16 x 6	A34	**9837-732N**	1	5.50	8.50	FAB

table continued on the next page



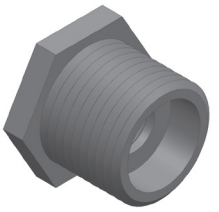
Size (inch)	P/L	Code	Pack Qty	HL (inch)	L (inch)	Design
16 x 8	A34	**9837-734N**	1	4.50	8.50	FAB
16 x 10	A34	**9837-736N**	1	3.50	8.50	FAB
16 x 12	A34	**9837-738N**	1	2.50	8.50	FAB
16 x 14	A34	**9837-740N**	1	1.50	8.50	FAB
18 x 4	A34	**9837-784N**	1	7.50	9.50	FAB
18 x 6	A34	**9837-786N**	1	6.50	9.50	FAB
18 x 8	A34	**9837-788N**	1	5.50	9.50	FAB
18 x 10	A34	**9837-790N**	1	4.50	9.50	FAB
18 x 12	A34	**9837-792N**	1	3.50	9.50	FAB
18 x 14	A34	**9837-794N**	1	2.50	9.50	FAB
18 x 16	A34	**9837-796N**	1	1.50	9.50	FAB
20 x 4	A34	**9837-814N**	1	8.50	10.50	FAB
20 x 6	A34	**9837-816N**	1	7.50	10.50	FAB
20 x 8	A34	**9837-818N**	1	6.50	10.50	FAB
20 x 10	A34	**9837-820N**	1	5.50	10.50	FAB
20 x 12	A34	**9837-822N**	1	4.50	10.50	FAB
20 x 14	A34	**9837-824N**	1	3.50	10.50	FAB
20 x 16	A34	**9837-826N**	1	2.50	10.50	FAB
20 x 18	A34	**9837-828N**	1	1.50	10.50	FAB
24 x 4	A34	**9837-904N**	1	10.50	12.50	FAB
24 x 6	A34	**9837-906N**	1	9.50	12.50	FAB
24 x 8	A34	**9837-908N**	1	8.50	12.50	FAB
24 x 10	A34	**9837-910N**	1	7.50	12.50	FAB
24 x 12	A34	**9837-912N**	1	6.50	12.50	FAB
24 x 14	A34	**9837-914N**	1	5.50	12.50	FAB
24 x 16	A34	**9837-916N**	1	4.50	12.50	FAB
24 x 18	A34	**9837-918N**	1	3.50	12.50	FAB
24 x 20	A34	**9837-920N**	1	2.50	12.50	FAB

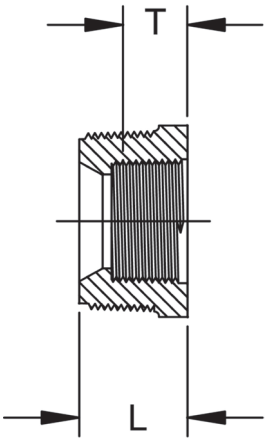




Flush Style Reducer Bushing (Spg x FPT)

Size (inch)	P/L	Code	Pack Qty	L (inch)	T (inch)	Design
½ x ¼	25	**9838-072**	50	1.14	0.61	FLUSH
½ x ⅜	25	**9838-073**	50	1.13	0.61	FLUSH
¾ x ¼	25	**9838-098**	50	1.21	0.60	FLUSH
¾ x ½	25	**9838-101**	50	1.28	0.77	FLUSH
1 x ½	25	**9838-130**	50	1.42	0.76	FLUSH
1 x ¾	25	**9838-131**	50	1.41	0.81	FLUSH
1 ¼ x ½	25	**9838-166**	15	1.56	0.75	FLUSH
1 ¼ x ¾	25	**9838-167**	15	1.56	0.79	FLUSH
1 ¼ x 1	25	**9838-168**	15	1.56	0.99	FLUSH
1 ½ x ½	25	**9838-209**	15	1.68	0.76	FLUSH
1 ½ x ¾	25	**9838-210**	15	1.69	0.79	FLUSH
1 ½ x 1	25	**9838-211**	15	1.68	0.99	FLUSH
1 ½ x 1 ¼	25	**9838-212**	15	1.69	1.02	FLUSH
2 x ½	25	**9838-247**	10	1.80	0.77	FLUSH
2 x ¾	25	**9838-248**	10	1.80	0.80	FLUSH
2 x 1	25	**9838-249**	10	1.80	0.99	FLUSH
2 x 1 ¼	25	**9838-250**	10	1.81	1.02	FLUSH
2 x 1 ½	25	**9838-251**	10	1.88	1.04	FLUSH
2 ½ x 1 ½	25	**9838-291**	5	2.24	1.07	FLUSH
2 ½ x 2	25	**9838-292**	5	2.12	1.10	FLUSH
3 x 2	25	**9838-338**	5	2.42	1.07	FLUSH
4 x 2	25	**9838-420**	5	2.71	1.10	FLUSH
4 x 3	25	**9838-422**	5	2.75	1.62	FLUSH

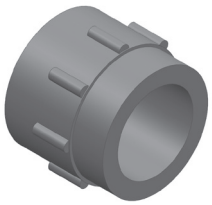


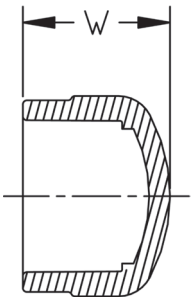


Flush Style Reducer Bushing (MPT x FPT)

Size (inch)	P/L	Code	Pack Qty	L (inch)	T (inch)	Style
⅜ x ¼	25	**9839-052**	50	0.80	0.60	
½ x ¼	25	**9839-072**	50	0.95	0.60	
½ x ⅜	25	**9839-073**	50	0.96	0.61	
¾ x ⅜	25	**9839-099**	50	1.02	0.61	
¾ x ½	25	**9839-101**	50	1.08	0.75	
1 x ½	25	**9839-130**	25	1.24	0.76	
1 x ¾	25	**9839-131**	25	1.28	0.80	
1 ¼ x 1	25	**9839-168**	25	1.30	1.00	
1 ½ x ¾	25	**9839-210**	25	1.33	0.78	
1 ½ x 1	25	**9839-211**	25	1.34	0.98	
1 ½ x 1 ¼	25	**9839-212**	25	1.33	1.02	
2 x 1	25	**9839-249**	10	1.42	0.97	
2 x 1 ¼	25	**9839-250**	10	1.43	1.01	
2 x 1 ½	25	**9839-251**	10	1.35	1.02	

Caps & End Caps

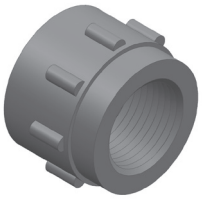


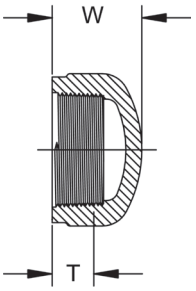


Cap (S)

Size (inch)	P/L	Code	Pack Qty	W (inch)	Design
½	25	**9847-005**	50	1.30	HS
¾	25	**9847-007**	25	1.46	HS
1	25	**9847-010**	25	1.66	HS
1 ¼	25	**9847-012**	15	1.89	HS
1 ½	25	**9847-015**	10	2.08	HS
2	25	**9847-020**	5	2.32	HS
2 ½	25	**9847-025**	5	2.61	HS
3	25	**9847-030**	5	3.06	HS
4	25	**9847-040**	5	3.69	HS
6	25	**9847-060**	2	4.86	HS
8	25	**9847-080**	2	6.25	SL
10	02	**9847-100**	1	7.92	SL
12	02	**9847-120**	1	9.37	SL
14	A34	**9847-140N**	1	5.75	FAB
16	A34	**9847-160N**	1	7.00	FAB
18	A34	**9847-180N**	1	8.25	FAB
20	A34	**9847-200N**	1	8.75	FAB
24	A34	**9847-240N**	1	10.25	FAB

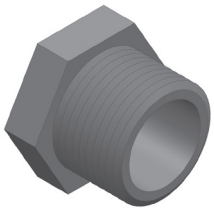
Cap (FPT)

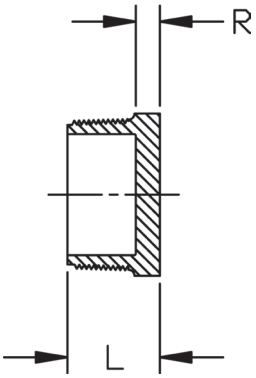




Size (inch)	P/L	Code	Pack Qty	W (inch)	T (inch)	Design
¼	25	**9848-002**	50	0.93	0.54	HS
⅜	25	**9848-003**	50	0.94	0.62	HS
½	25	**9848-005**	50	1.14	0.74	HS
¾	25	**9848-007**	25	1.25	0.80	HS
1	25	**9848-010**	25	1.51	0.97	HS
1 ¼	25	**9848-012**	15	1.59	1.00	HS
1 ½	25	**9848-015**	10	1.70	1.01	HS
2	25	**9848-020**	5	1.82	1.06	HS
2 ½	625	**9848-025**	5	2.61	1.45	HS

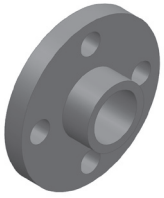
Plug (MPT)

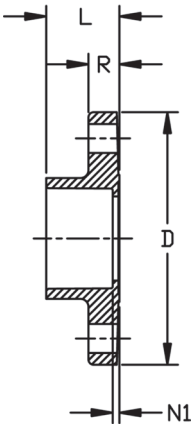




Size (inch)	P/L	Code	Pack Qty	L (inch)	R (inch)	Design
¼	25	**9850-002**	50	0.81	0.22	HS
⅜	25	**9850-003**	50	0.83	0.22	HS
½	25	**9850-005**	50	0.98	0.22	HS
¾	25	**9850-007**	50	1.06	0.25	HS
1	25	**9850-010**	25	1.24	0.27	HS
1 ¼	625	**9850-012**	25	1.33	0.31	HS
1 ½	25	**9850-015**	20	1.38	0.34	HS
2	25	**9850-020**	10	1.47	0.39	HS
3	25	**9850-030**	5	1.98	0.38	HS
4	25	**9850-040**	5	2.16	0.39	HS
6		**9850-060N**	1	2.00	0.75	
8		**9850-080N**	1	2.00	0.75	
10		**9850-100N**	1	2.00	0.75	
12		**9850-120N**	1	2.00	0.75	

Van Stone Flanges

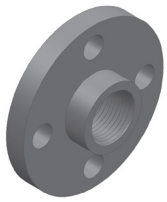


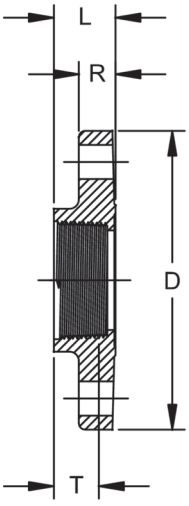


Schedula 80 CPVC Flanges
Flange - One Piece (S)

- ANSI 150 Class according to ANSI B16.5
- 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	25	**9851-005**	5	4	½	2.38	3.50	1.03	0.13	0.39	SOLID
¾	25	**9851-007**	5	4	½	2.75	3.89	1.14	0.13	0.45	HC
1	25	**9851-010**	5	4	½	3.13	4.28	1.29	0.16	0.52	HC
1 ¼	625	**9851-012**	5	4	½	3.50	4.64	1.45	0.14	0.59	HC
1 ½	25	**9851-015**	5	4	½	3.88	5.01	1.54	0.16	0.68	HC
2	25	**9851-020**	5	4	⅝	4.75	6.01	1.73	0.16	0.69	HC
2 ½	25	**9851-025**	5	4	⅝	5.50	7.00	1.99	0.17	0.75	HC
3	25	**9851-030**	5	4	⅝	6.00	7.51	2.46	0.57	1.10	WEB
4	25	**9851-040**	5	8	⅝	7.50	9.04	2.79	0.52	1.19	WEB
6	25	**9851-060**	2	8	¾	9.50	11.13	3.86	0.36	1.38	HC



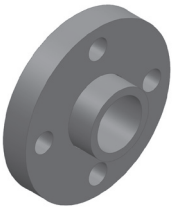


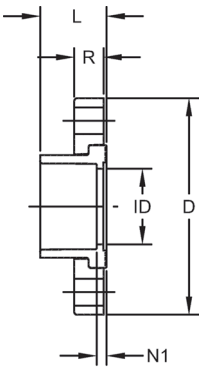
Schedula 80 CPVC Flanges
Flange - One Piece (FPT)

- ANSI 150 Class according to ANSI B16.5
- 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	625	**9852-005**	5	4	½	2.38	3.51	0.89	0.77	0.39	SOLID
¾	25	**9852-007**	5	4	½	2.75	3.89	0.91	0.79	0.45	SOLID
1	25	**9852-010**	5	4	½	3.13	4.28	1.13	1.00	0.53	HC
1 ¼	25	**9852-012**	5	4	½	3.50	4.62	1.20	1.06	0.58	HC
1 ½	625	**9852-015**	5	4	½	3.88	4.99	1.19	1.03	0.68	HC
2	25	**9852-020**	5	4	⅝	4.75	6.02	1.22	1.06	0.70	HC
2 ½	25	**9852-025**	5	4	⅝	5.50	7.00	1.72	1.53	0.75	HC
3	625	**9852-030**	5	4	⅝	6.00	7.50	2.15	1.63	1.15	WEB
4	25	**9852-040**	5	8	⅝	7.50	9.00	2.30	1.77	1.23	WEB

Van Stone Flange (S)

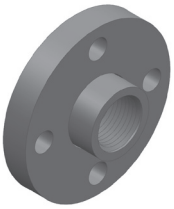


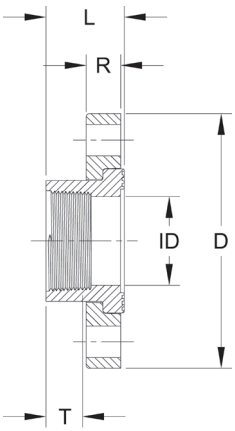


- ANSI 150 Class according to ANSI B16.5
- 1/2" - 12" rating pressione 150 psi @ 73°F (10.3 bar @ 22.7°C)
- 14" - 24" pressure rating is 100 psi @ 73°F (6.9 bar @ 22.7°C) - Steel Ring
- HC = Honeycomb (Front)

Size (inch)	P/L	Code	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	N1 (inch)	R (inch)	ID (inch)	Design
½	25	**9854-005**	5	4	½	2.38	3.53	1.10	0.18	0.57	0.60	HC
¾	25	**9854-007**	5	4	½	2.75	3.87	1.23	0.18	0.59	0.82	HC
1	25	**9854-010**	5	4	½	3.13	4.25	1.38	0.20	0.66	1.03	HC
1 ¼	25	**9854-012**	5	4	½	3.50	4.62	1.52	0.21	0.69	1.36	HC
1 ½	25	**9854-015**	5	4	½	3.88	5.01	1.68	0.25	0.75	1.60	HC
2	25	**9854-020**	5	4	⅝	4.75	6.02	1.84	0.29	0.82	2.06	HC
2 ½	25	**9854-025**	5	4	⅝	5.50	7.01	2.15	0.33	0.98	2.49	HC
3	25	**9854-030**	5	4	⅝	6.00	7.50	2.33	0.39	1.02	3.09	HC
4	25	**9854-040**	5	8	⅝	7.50	8.99	2.75	0.24	1.10	4.06	HC
6	25	**9854-060**	2	8	¾	9.50	10.98	3.55	0.48	1.25	6.11	HC
8	25	**9854-080**	2	8	¾	11.75	13.51	4.60	0.51	1.71	8.00	HC
10	02	**9854-100**	2	12	⅞	14.25	15.97	5.66	0.53	1.73	10.10	HC
12	02	**9854-120**	2	12	⅞	17.00	18.95	6.71	0.57	1.72	11.96	HC
14	A34	**9854-140N**	1	12	⅞	18.75	21.00	11.75	4.75	0.50	12.50	FAB
16	A34	**9854-160N**	1	16	1	21.25	23.50	13.50	5.50	0.50	14.31	FAB
18	A34	**9854-180N**	1	16	1 ⅛	22.75	25.00	14.50	5.50	0.50	16.13	FAB
20	A34	**9854-200N**	1	20	1 ⅛	25.00	27.50	17.25	7.25	0.50	18.00	FAB
24	A34	**9854-240N**	1	20	1 ¼	29.50	32.00	19.50	7.50	0.50	21.56	FAB

Van Stone Flange (FPT)

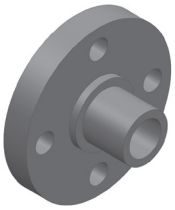


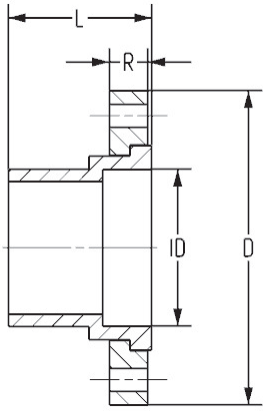


- ANSI 150 Class according to ANSI B16.5
- 150 psi @ 73°F (10.3 bar @ 22.7°C)
- HC = Honeycomb (Front)

Size (inch)	P/L	Code	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	T (inch)	R (inch)	ID (inch)	Design
1	25	**9855-010**	5	4	½	3.13	4.25	1.39	1.01	0.66	1.06	HC
1 ¼	25	**9855-012**	5	4	½	3.50	4.62	1.50	1.02	0.69	1.38	HC
1 ½	25	**9855-015**	5	4	½	3.88	5.01	1.67	1.06	0.75	1.61	HC
2	25	**9855-020**	5	4	⅝	4.75	6.02	1.82	1.09	0.82	2.08	HC

Van Stone Flange (Spg)

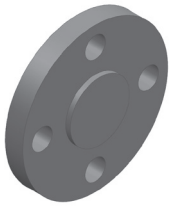


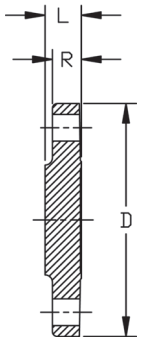


- ANSI 150 Class according to ANSI B16.5
- 1/2" - 12" rating pressione 150 psi @ 73°F (10.3 bar @ 22.7°C)
- 14" - 24" pressure rating is 100 psi @ 73°F (6.9 bar @ 22.7°C) - Steel Ring
- HC = Honeycomb (Front)

Size (inch)	P/L	Code	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	R (inch)	ID (inch)	Design
½	25	**9856-005**	5	4	½	2.38	3.53	1.72	0.57	0.84	HC
¾	25	**9856-007**	5	4	½	2.75	3.87	1.85	0.59	1.05	HC
1	25	**9856-010**	5	4	½	3.13	4.25	2.10	0.66	1.32	HC
1 ¼	25	**9856-012**	5	4	½	3.50	4.62	2.28	0.69	1.66	HC
1 ½	25	**9856-015**	5	4	½	3.88	5.01	2.48	0.75	1.90	HC
2	25	**9856-020**	5	4	⅝	4.75	6.02	2.80	0.82	2.38	HC
2 ½	25	**9856-025**	5	4	⅝	5.50	7.01	3.27	0.98	2.86	HC
3	25	**9856-030**	5	4	⅝	6.00	7.50	3.60	1.02	3.49	HC
4	25	**9856-040**	5	8	⅝	7.50	8.99	4.10	1.10	4.49	HC
6	25	**9856-060**	2	8	¾	9.50	10.98	5.10	1.25	6.60	HC
8	25	**9856-080**	1	8	¾	11.75	13.51	6.88	1.71	8.62	HC
10	02	**9856-100**	1	12	⅞	14.25	15.97	8.30	1.73	10.70	HC
12	02	**9856-120**	1	12	⅞	17.00	18.95	9.55	1.72	12.69	HC
14	A34	**9856-140N**	1	12	1	18.75	21.00	13.00	0.50	11.41	FAB
16	A34	**9856-160N**	1	16	1	21.25	23.50	14.00	0.50	13.08	FAB
18	A34	**9856-180N**	1	16	1 ⅛	22.75	25.00	16.00	0.50	14.76	FAB
20		**9856-200N**	1	20	1 ⅛	25.00	27.50	18.00	0.50	16.43	
24	A34	**9856-240N**	1	20	1 ¼	29.50	32.00	20.00	0.50	19.79	FAB

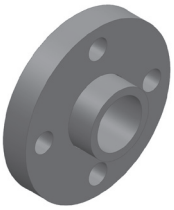
Flange (Blind)

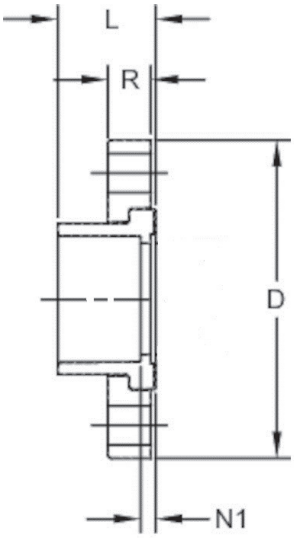




- ANSI 150 Class according to ANSI B16.5
- 1/2" - 8" 150 psi @ 73°F (10.3 bar @ 22.7°C)
- 10" - 24" 50 psi @73°F (3.5 bar @ 22.7°C)
- HC = Honeycomb (Front)

Size (inch)	P/L	Code	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	R (inch)	Design
½	25	**9853-005**	5	4	½	2.38	3.51	0.48	0.39	HC
¾	25	**9853-007**	5	4	½	2.75	3.90	0.55	0.45	HC
1	25	**9853-010**	5	4	½	3.13	4.29	0.66	0.53	HC
1 ¼	25	**9853-012**	5	4	½	3.50	4.62	0.73	0.59	HC
1 ½	25	**9853-015**	5	4	½	3.88	5.01	0.81	0.68	HC
2	25	**9853-020**	5	4	⅝	4.75	6.02	0.90	0.70	HC
2 ½	25	**9853-025**	5	4	⅝	5.50	7.00	0.97	0.76	HC
3	25	**9853-030**	5	4	⅝	6.00	7.47	0.96	1.03	HC
4	25	**9853-040**	5	8	⅝	7.50	8.87	1.05	1.00	HC
6	25	**9853-060**	2	8	¾	9.50	10.89	1.42	1.17	HC
8	25	**9853-080**	2	8	¾	11.75	13.51	1.51	1.31	HC
10		**9853-100N**	1	12	⅞	14.25	16.00	1.00	1.00	
12		**9853-120N**	1	12	⅞	17.00	19.00	1.00	1.00	
14	A34	**9853-140N**	1	12	1	18.75	21.00	1.00	1.00	SOLID
16	A34	**9853-160N**	1	16	1	21.25	23.50	1.00	1.00	SOLID
18	A34	**9853-180N**	1	16	1 ⅛	22.75	25.00	1.00	1.00	SOLID
20	A34	**9853-200N**	1	20	1 ⅛	25.00	27.50	1.00	1.00	SOLID
24	A34	**9853-240N**	1	20	1 ¼	29.50	32.00	1.00	1.00	SOLID



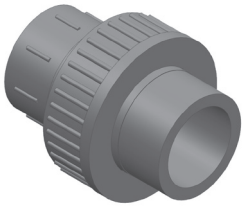


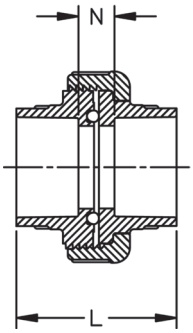
Van Stone Flange (S) Class 300 Schedule 80 CPVC

- ANSI 300 Class according to ANSI B16.5
- 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	25	**9854-005-300**	1	4	½	2.63	3.75	1.10	0.18	0.57	FAB
¾	25	**9854-007-300**	1	4	⅝	3.25	4.63	1.23	0.18	0.59	FAB
1	25	**9854-010-300**	1	4	⅝	3.50	4.88	1.38	0.20	0.66	FAB
1 ¼	25	**9854-012-300**	1	4	⅝	3.88	5.25	1.52	0.21	0.69	FAB
1 ½	25	**9854-015-300**	1	4	¾	4.50	6.13	1.68	0.25	0.75	FAB
2	25	**9854-020-300**	1	8	⅝	5.00	6.50	1.84	0.29	0.82	FAB
2 ½	25	**9854-025-300**	1	8	¾	5.88	7.50	2.15	0.33	0.98	FAB
3	25	**9854-030-300**	1	8	¾	6.63	8.25	2.33	0.39	1.02	FAB
4	25	**9854-040-300**	1	8	¾	7.88	10.00	2.75	0.24	1.10	FAB
6	25	**9854-060-300**	1	12	¾	10.63	12.50	3.55	0.48	1.25	FAB
8	25	**9854-080-300**	1	12	⅞	13.00	15.00	4.60	0.51	1.71	FAB
10	02	**9854-100-300**	1	16	1	15.25	17.50	5.66	0.53	1.73	FAB
12	02	**9854-120-300**	1	16	1 ⅛	17.75	20.50	6.71	0.57	1.72	FAB

Unions

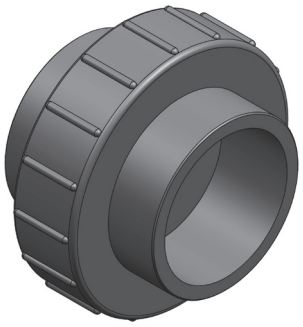


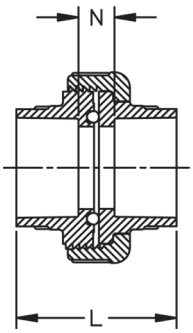


CHLOR-FIT Schedula 80 Union CPVC Type 375 (S x S)

235 psi @ 73°F (16.2 bar @ 22.7°C)

Size (inch)	P/L	EPDM Code	FKM Code	Pack Qty	L (inch)	N (inch)
½	625	**9897-375-005**	**9857-375-005**	5	2.56	0.78
¾	625	**9897-375-007**	**9857-375-007**	5	2.80	0.76
1	625	**9897-375-010**	**9857-375-010**	5	3.22	0.89
1 ¼	25	**9897-375-012**	**9857-375-012**	5	3.56	0.99
1 ½	625	**9897-375-015**	**9857-375-015**	5	3.76	0.92
2	625	**9897-375-020**	**9857-375-020**	2	4.18	1.11

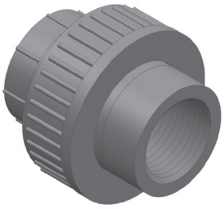


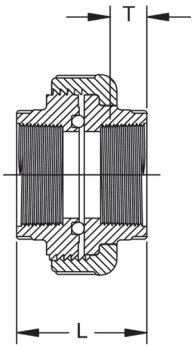


Union (S x S)

150 psi @ 73°F (10.3 bar @ 22.7°C)

Size (inch)	P/L	EPDM Code	FKM Code	Pack Qty	L (inch)	N (inch)
3	25	**9897-030**	**9857-030**	1	4.74	0.96
4	25	**9897-040**	**9857-040**	1	5.62	1.11

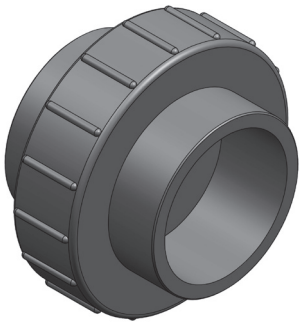


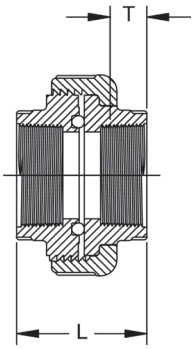


CHLOR-FIT Schedula 80 Union CPVC Type 375 (FPT x FPT)

- 235 psi @ 73°F (16.2 bar @ 22.7°C)

Size (inch)	P/L	EPDM Code	FKM Code	Pack Qty	L (inch)	T (inch)
½	625	**9898-375-005**	**9858-375-005**	5	2.06	0.75
¾	25	**9898-375-007**	**9858-375-007**	5	2.11	0.79
1	25	**9898-375-010**	**9858-375-010**	5	2.60	1.01
1 ¼	25	**9898-375-012**	**9858-375-012**	5	2.80	1.06
1 ½	25	**9898-375-015**	**9858-375-015**	5	2.76	1.06
2	625	**9898-375-020**	**9858-375-020**	2	2.93	1.09



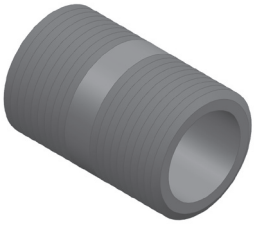


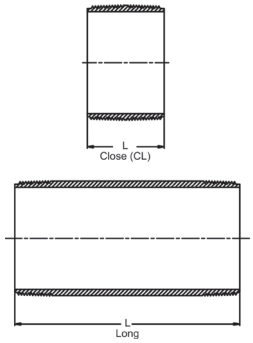
Union (FPT X FPT)

- 150 psi @ 73°F (10.3 bar @ 22.7°C)

Size (inch)	P/L	EPDM Code	FKM Code	Pack Qty	L (inch)	T (inch)
3	25	**9898-030**	**9858-030**	1	4.75	1.33
4	25	**9898-040**	**9858-040**	1	5.71	1.78

Nipples





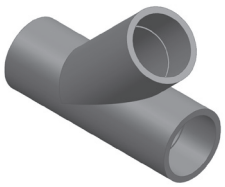
Nipple (MPT x MPT)

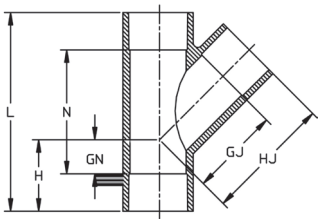
- Nipples fabricated from pipe

Inch (inch)	P/L	Code	Pack Qty	L (inch)
1/2 x CL	25	**9861-077**	25	1.13
1/2 x 2	25	**9861-079**	25	2.00
1/2 x 3	25	**9861-081**	25	3.00
1/2 x 4	25	**9861-082**	25	4.00
1/2 x 5	25	**9861-083**	25	5.00
1/2 x 6	25	**9861-084**	25	6.00
1/2 x 8	625	**9861-086**	25	8.00
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
3/4 x 8	625	**9861-112**	25	8.00
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
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
1-1/2 x 12	625	**9861-221**	25	12.00
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 x 12	625	**9861-259**	25	12.00
2 1/2 x CL	25	**9861-291**	10	2.50
2 1/2 x 3	25	**9861-292**	10	3.00
2 1/2 x 4	25	**9861-295**	10	4.00
2 1/2 x 5	25	**9861-296**	10	5.00
2 1/2 x 6	25	**9861-297**	10	6.00
3 x CL	25	**9861-338**	10	2.63
3 x 3	25	**9861-340**	10	3.00
3 x 4	25	**9861-341**	10	4.00
3 x 5	25	**9861-342**	10	5.00
3 x 6	25	**9861-343**	10	6.00
4 x CL	25	**9861-422**	10	2.88
4 x 4	25	**9861-423**	10	4.00
4 x 5	25	**9861-425**	10	5.00
4 x 6	25	**9861-426**	10	6.00

45° Tees

45° Wye (S x S x S)

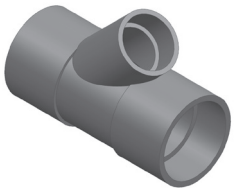


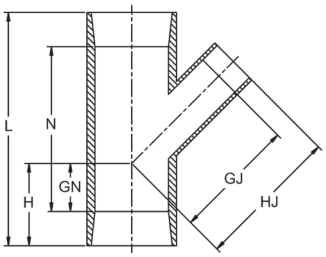


1-1/2" - 2" 235 psi @ 72°F (16.2 bar @ 22.7°C)
3" - 6" 150 psi @ 72°F (10.3 bar @ 22.7°C)
8" & Larger 100 psi @ 72°F (6.9 bar @ 22.7°C)

Size (inch)	P/L	Code	Pack Qty	GJ (inch)	GN (inch)	H (inch)	HJ (inch)	L (inch)	N (inch)	Design
1 ½	25	**9870-015**	20	2.79	1.20	2.60	4.18	6.80	4.02	SL
2	25	**9870-020**	10	3.56	1.36	2.87	5.07	7.99	4.97	SL
3	25	**9870-030**	4	4.91	1.82	3.73	6.83	10.45	6.62	SL
4	25	**9870-040**	4	6.26	2.06	4.41	8.61	12.94	8.24	SL
6	25	**9870-060**	2	8.38	1.85	4.90	11.44	16.50	10.39	HS
10		**9875-100N**	1	19.75	5.50	11.25	24.75	31.75	21.75	
12		**9875-120N**	1	22.63	6.50	12.50	28.63	37.50	25.50	
14	A34	**9875-140N**	1	25.75	7.00	14.00	32.75	41.75	27.75	FAB
16	A34	**9875-160N**	1	28.88	7.75	16.00	36.88	47.25	31.25	FAB
18	A34	**9875-180N**	1	32.50	8.50	17.50	41.50	53.00	35.00	FAB
20	A34	**9875-200N**	1	35.50	9.50	19.50	45.50	58.75	38.75	FAB
24	A34	**9875-240N**	1	42.00	11.00	23.00	54.00	70.00	46.00	FAB

Reducing 45° Wye (S x S x S)

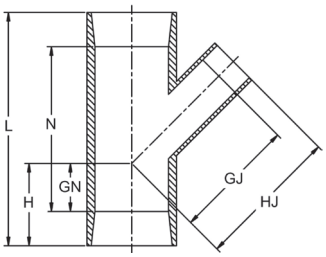




2" 235 psi @ 72°F (16.2 bar @ 22.7° C)
3" - 6" 150 psi @ 72°F (10.3 bar @ 22.7°C)
8" & Larger 100 psi @ 72°F (6.9 bar @ 22.7°C)

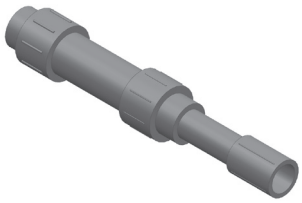
Size (inch)	P/L	Code	Pack Qty	GJ (inch)	GN (inch)	H (inch)	HJ (inch)	L (inch)	N (inch)	Design
2 x 1 ½	25	**9870-251FB**	10	3.96	1.36	2.87	5.37	7.99	4.97	BUSH
3 x 1 ½	25	**9870-337FB**	4	5.80	1.82	3.73	7.34	10.45	6.62	BUSH
3 x 2	25	**9870-338FB**	4	5.77	1.82	3.73	7.33	10.45	6.62	BUSH
4 x 2	25	**9870-420FB**	4	7.40	2.06	4.41	7.40	12.94	8.24	BUSH
4 x 3	25	**9870-422FB**	4	7.03	2.06	4.41	9.00	12.94	8.24	BUSH
6 x 2		**9870-528FB**	1	8.24	1.87	4.91	8.24	16.49	10.42	
6 x 3	25	**9870-530FB**	2	7.88	1.87	4.91	9.84	16.49	10.42	BUSH
6 x 4	25	**9870-532**	2	7.14	1.87	4.91	9.36	16.49	10.42	HS
8 x 3	625	**9870-580FB**	1	10.23	0.41	4.43	12.20	15.98	7.95	BUSH
8 x 4	625	**9870-582FB**	1	13.95	2.06	6.06	16.21	21.25	13.31	BUSH
8 x 6	25	**9870-585FB**	1	12.78	1.90	5.92	15.76	21.35	13.30	BUSH
10 x 4	A34	**9875-623N**	1	14.00	1.25	6.25	16.00	23.00	13.00	FAB
10 x 6	A34	**9875-626N**	1	16.13	2.75	7.50	19.13	26.00	16.00	FAB
10 x 8	A34	**9875-628N**	1	17.50	4.00	9.25	21.50	28.00	18.75	FAB
12 x 4	A34	**9875-663N**	1	15.50	0.50	6.00	17.50	25.75	13.75	FAB
12 x 6	A34	**9875-666N**	1	16.68	2.00	8.00	20.50	28.68	16.68	FAB
12 x 8	A34	**9875-668N**	1	19.00	3.50	9.50	23.00	31.50	19.50	FAB
12 x 10	A34	**9875-670N**	1	21.25	5.00	11.00	26.25	34.50	22.50	FAB
14 x 4	A34	**9875-696N**	1	16.25	0.25	7.25	18.25	28.25	14.25	FAB
14 x 6	A34	**9875-698N**	1	18.50	1.75	8.63	21.50	31.25	17.25	FAB
14 x 8	A34	**9875-700N**	1	19.75	3.00	10.00	23.75	34.00	20.00	FAB
14 x 10	A34	**9875-702N**	1	22.00	4.50	11.50	27.00	37.00	23.00	FAB
14 x 12	A34	**9875-704N**	1	23.50	6.00	13.00	29.50	39.75	25.75	FAB
16 x 4	A34	**9875-730N**	1	17.75	-0.75	7.50	19.75	31.00	15.00	FAB
16 x 6	A34	**9875-732N**	1	19.88	1.00	9.00	22.88	34.00	18.00	FAB
16 x 8	A34	**9875-734N**	1	21.25	2.50	10.25	25.25	36.75	20.75	FAB
16 x 10	A34	**9875-736N**	1	23.50	4.00	12.00	28.50	39.75	23.75	FAB
16 x 12	A34	**9875-738N**	1	25.00	5.50	14.25	31.00	42.75	26.75	FAB
16 x 14	A34	**9875-740N**	1	27.25	6.25	15.25	34.25	44.50	28.50	FAB
18 x 4	A34	**9875-784N**	1	19.00	-1.25	8.00	21.00	34.00	16.00	FAB
18 x 6	A34	**9875-786N**	1	21.25	0.50	9.50	24.25	37.00	19.00	FAB

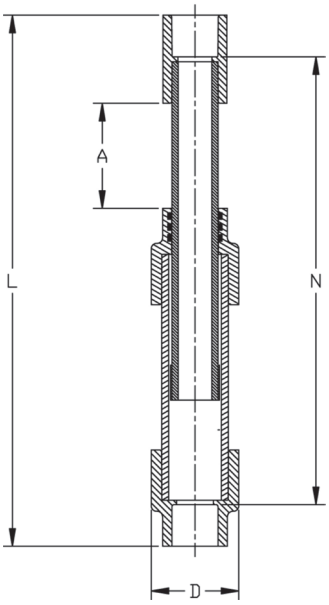
table continued on the next page



Size (inch)	P/L	Code	Pack Qty	GJ (inch)	GN (inch)	H (inch)	HJ (inch)	L (inch)	N (inch)	Design
18 x 8	A34	**9875-788N**	1	22.75	2.00	11.00	26.75	39.75	21.75	FAB
18 x 10	A34	**9875-790N**	1	25.00	3.50	12.50	30.00	42.75	24.75	FAB
18 x 12	A34	**9875-792N**	1	26.25	4.75	13.75	32.50	45.50	27.50	FAB
18 x 14	A34	**9875-794N**	1	28.75	5.75	14.75	35.75	48.50	29.50	FAB
18 x 16	A34	**9875-796N**	1	30.25	7.25	16.00	38.25	50.25	32.25	FAB
20 x 4	A34	**9875-814N**	1	20.50	-1.75	8.50	22.50	36.75	16.75	FAB
20 x 6	A34	**9875-816N**	1	22.75	-0.25	10.00	25.75	39.75	19.75	FAB
20 x 8	A34	**9875-818N**	1	24.25	1.50	11.50	28.25	42.75	22.75	FAB
20 x 10	A34	**9875-820N**	1	26.50	3.00	13.00	31.50	45.75	25.75	FAB
20 x 12	A34	**9875-822N**	1	28.00	4.25	14.25	34.00	48.50	28.50	FAB
20 x 14	A34	**9875-824N**	1	30.25	5.25	15.00	37.25	50.25	30.25	FAB
20 x 16	A34	**9875-826N**	1	31.75	6.50	16.50	39.75	53.00	33.00	FAB
20 x 18	A34	**9875-828N**	1	34.00	8.00	18.00	43.00	56.00	36.00	FAB
24 x 4	A34	**9875-904N**	1	23.25	-3.00	9.25	25.25	42.50	18.50	FAB
24 x 6	A34	**9875-906N**	1	25.50	-1.50	10.75	28.50	45.50	21.54	FAB
24 x 8	A34	**9875-908N**	1	27.00	0.00	12.00	31.00	48.25	24.25	FAB
24 x 10	A34	**9875-910N**	1	29.25	1.75	13.50	34.25	51.25	27.25	FAB
24 x 12	A34	**9875-912N**	1	30.50	3.25	15.00	36.60	54.25	30.25	FAB
24 x 14	A34	**9875-914N**	1	33.00	4.00	16.00	40.00	56.00	32.00	FAB
24 x 16	A34	**9875-916N**	1	34.50	5.50	17.50	42.50	58.75	34.75	FAB
24 x 18	A34	**9875-918N**	1	36.75	6.75	18.75	45.75	61.50	37.50	FAB
24 x 20	A34	**9875-920N**	1	38.25	8.25	20.25	48.25	64.50	40.50	FAB

Expansion joints

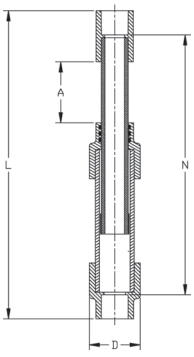




ChlorFIT Expansion Joint 6" Travel (SxS) Schedule 80 CORZAN® CPVC

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	FKM Code	A (inch)	D (inch)	L (inch)	N (inch)
½	634	**9826-005X6**	**9836-005X6**	3.00	1.86	13.97	12.17
¾	34	**9826-007X6**	**9836-007X6**	3.00	2.23	14.44	12.40
1	34	**9826-010X6**	**9836-010X6**	3.00	2.50	14.98	12.69
1 ¼	34	**9826-012X6**	**9836-012X6**	3.00	2.89	15.56	12.98
1 ½	634	**9826-015X6**	**9836-015X6**	3.00	3.51	16.00	13.21
2	34	**9826-020X6**	**9836-020X6**	3.00	4.40	18.05	15.01
3	34	**9826-030X6**	**9836-030X6**	3.00	5.52	19.75	16.00
4	34	**9826-040X6**	**9836-040X6**	3.00	7.92	28.29	23.76
6	34	**9826-060X6**	**9836-060X6**	3.00	9.80	27.79	21.73
8	634	**9826-080X6**	**9836-080X6**	3.00	10.75	25.35	17.31
10	634	**9826-100X6**	**9836-100X6**	3.00	12.75	29.64	19.60



ChlorFIT Expansion Joint 12" Travel (SxS) Schedule 80 CORZAN® CPVC

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	FKM Code	A (inch)	D (inch)	L (inch)	N (inch)
½	34	**9826-005X12**	**9836-005X12**	6.00	1.86	23.10	21.30
¾	634	**9826-007X12**	**9836-007X12**	6.00	2.23	23.57	21.52
1	34	**9826-010X12**	**9836-010X12**	6.00	2.50	24.11	21.81
1 ¼	34	**9826-012X12**	**9836-012X12**	6.00	2.89	24.69	22.11
1 ½	34	**9826-015X12**	**9836-015X12**	6.00	3.51	25.12	22.34
2	34	**9826-020X12**	**9836-020X12**	6.00	4.40	27.05	24.01
3	34	**9826-030X12**	**9836-030X12**	6.00	5.52	28.75	25.00
4	634	**9826-040X12**	**9836-040X12**	6.00	7.92	37.28	32.76
6	634	**9826-060X12**	**9836-060X12**	6.00	9.80	26.79	30.73
8	634	**9826-080X12**	**9836-080X12**	6.00	10.75	28.35	20.31
10	634	**9826-100X12**	**9836-100X12**	6.00	12.75	32.64	22.60

PVC-C Valves

PVC-C Valves		Page
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	Cone check valves	277
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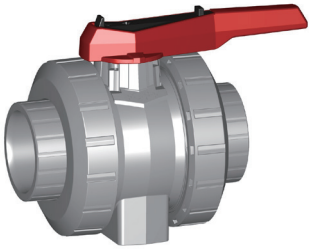
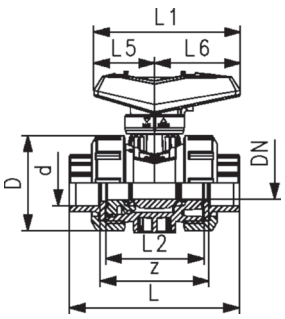
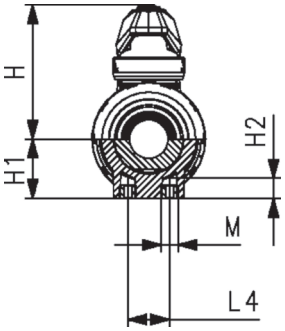
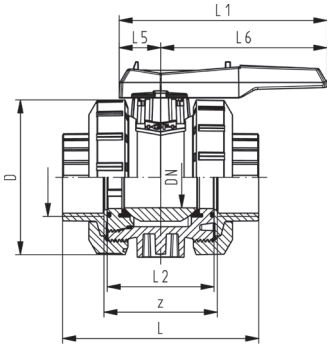
Ball valves

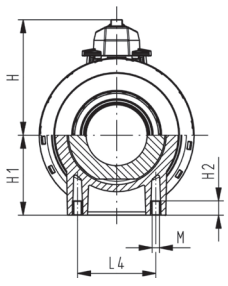
Type 546 Pro











Ball valve type 546 Pro PVC-C
With solvent cement sockets Inch ASTM
Including 2 threaded union ends NPT

Model:

- Lockable lever as standard (DN10-DN50)
- 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 compatible** with type 546 (1st Generation)

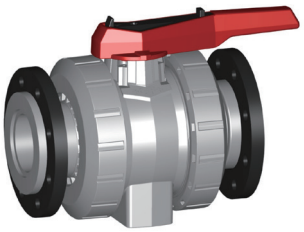
Option:

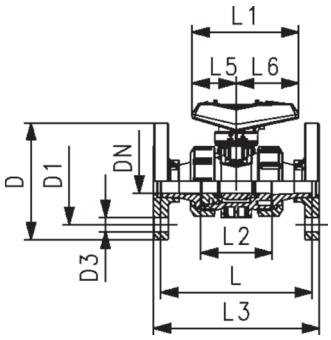
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from +GF+
- Individual configuration of the valve possible
- Multifunctional module with integrated limit switches (DN65-100)

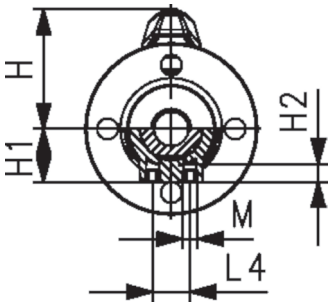
d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	NPT	⅜	16	71	**163 546 341**	1	0.194
20	15	NPT	½	16	185	**163 546 342**	1	0.248
25	20	NPT	¾	16	350	**163 546 343**	1	0.358
32	25	NPT	1	16	700	**163 546 344**	1	0.517
40	32	NPT	1 ¼	16	1000	**163 546 345**	1	0.652
50	40	NPT	1 ½	16	1600	**163 546 346**	1	1.166
63	50	NPT	2	16	3100	**163 546 347**	1	2.055
75	65	NPT	2 ½	16	5000	**163 546 348**	1	5.400
90	80	NPT	3	16	7000	**163 546 349**	1	5.821
110	100	NPT	4	16	11000	**163 546 350**	1	12.800

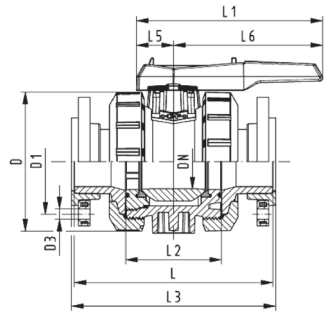
FKM Code	SP	Weight (kg)
163 546 351	1	0.194
163 546 352	1	0.250
163 546 353	1	0.267
163 546 354	1	0.520
163 546 355	1	0.810
163 546 356	1	1.180
163 546 357	1	2.078
163 546 358	1	5.400
163 546 359	1	6.689
163 546 360	1	12.800

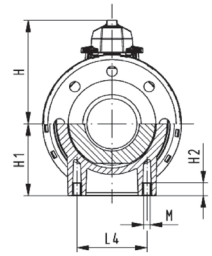
D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)
50	61	27	12	92	82	56	25	35	47	M6	68
50	61	27	12	95	82	56	25	35	47	M6	67
58	74	30	12	110	106	65	25	44	62	M6	70
68	80	36	12	123	106	71	25	44	62	M6	82
84	95	44	15	146	131	85	45	57	74	M8	98
97	102	51	15	157	131	89	45	57	74	M8	99
124	117	64	15	183	152	101	45	66	86	M8	111
166	150	85	15	233	270	136	70	64	206	M8	148
200	161	105	15	255	270	141	70	64	206	M8	163
238	178	123	22	301	320	164	120	64	256	M12	178











Ball valve type 546 Pro PVC-C
With backing flanges PP-st Inch ANSI

Model:

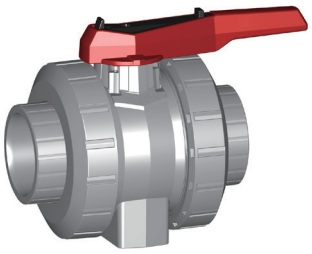
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)
- Overall length according to EN 558 (basic series: row 1)
- Connecting dimension ANSI/ASME B 16.5 / ASTM D 4024

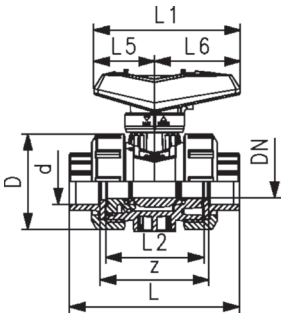
Option:

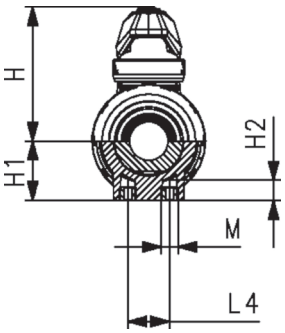
- Pneumatic or electric actuators from +GF+
- Multifunctional module with integrated limit switches (DN65-100)
- Individual configuration of the valve possible

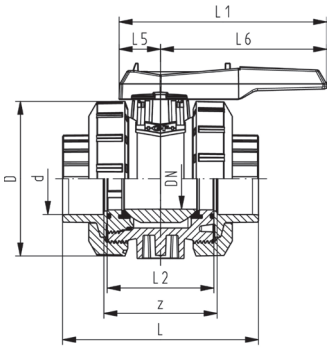
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
	15	½	16	185	**800 024 423**	1	0.600	**800 059 402**	1	0.700
	20	¾	16	350	**800 014 862**	1	0.760	**800 047 037**	1	0.700
	25	1	16	700	**800 024 425**	1	1.250	**800 046 363**	1	1.200
	32	1 ¼	16	1000	**800 070 456**	1	1.300	**800 070 458**	1	1.300
	40	1 ½	16	1600	**800 063 570**	1	1.500	**800 047 209**	1	2.300
	50	2	16	3100	**800 044 800**	1	1.695	**800 012 189**	1	3.580
75	65	2 ½	16	5000	**163 546 168**	1	6.000	**163 546 178**	1	6.000
90	80	3	16	7000	**163 546 169**	1	9.100	**163 546 179**	1	9.100
110	100	4	16	11000	**163 546 170**	1	14.200	**163 546 180**	1	14.200

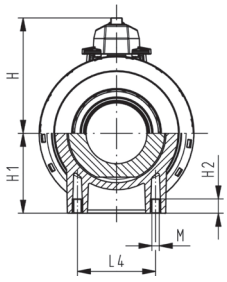
d (mm)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M
	96	60	15	87	27	12	82	56	130	25	35	47	M6
	101	70	15	104	30	12	105	65	150	25	44	62	M6
	123	79	19	115	36	12	105	71	160	25	44	74	M6
	135	89	19	139	44	12	131	85	180	45	57	74	M8
	140	98	19	152	51	12	131	89	200	45	57	74	M8
	165	121	19	181	64	12	152	101	230	45	66	86	M8
75	185	140	19	150	85	15	269	136	290	70	64	206	8
90	200	152	19	161	105	15	269	141	310	70	64	206	8
110	229	190	19	178	123	22	319	164	350	120	64	256	12











Ball valve type 546 Pro PVC-C
With solvent cement sockets metric

Model:

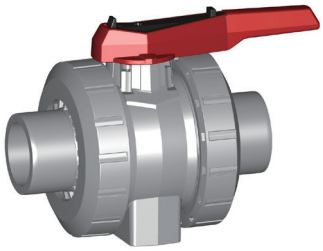
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from +GF+
- Individual configuration of the valve possible
- Multifunctional module with integrated limit switches (DN65-100)

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	16	71	**163 546 061**	1	0.160	**163 546 071**	1	0.160
20	15	16	185	**163 546 062**	1	0.169	**163 546 072**	1	0.160
25	20	16	350	**163 546 063**	1	0.255	**163 546 073**	1	0.245
32	25	16	700	**163 546 064**	1	0.370	**163 546 074**	1	0.373
40	32	16	1000	**163 546 065**	1	0.648	**163 546 075**	1	0.658
50	40	16	1600	**163 546 066**	1	0.894	**163 546 076**	1	0.890
63	50	16	3100	**163 546 067**	1	1.653	**163 546 077**	1	1.662
75	65	16	5000	**163 546 068**	1	3.552	**163 546 078**	1	4.122
90	80	16	7000	**163 546 069**	1	6.646	**163 546 079**	1	6.698
110	100	16	11000	**163 546 070**	1	9.697	**163 546 080**	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	61	27	12	92	82	56	25	35	47	M6	68	⅜
20	50	61	27	12	95	82	56	25	35	47	M6	67	½
25	58	74	30	12	110	106	65	25	44	62	M6	76	¾
32	68	80	36	12	123	106	71	25	44	62	M6	82	1
40	84	95	44	15	146	131	85	45	57	74	M8	98	1 ¼
50	97	102	51	15	157	131	89	45	57	74	M8	99	1 ½
63	124	117	64	15	183	152	101	45	66	86	M8	111	2
75	166	150	85	15	233	270	136	70	64	206	M8	148	2 ½
90	200	161	105	15	255	270	141	70	64	206	M8	156	3
110	238	178	123	22	301	320	164	120	64	256	M12	178	4



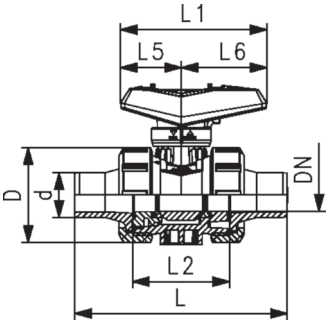
Ball valve type 546 Pro PVC-C
With solvent cement spigots metric

Model:

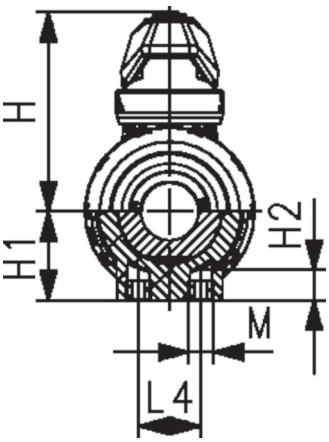
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

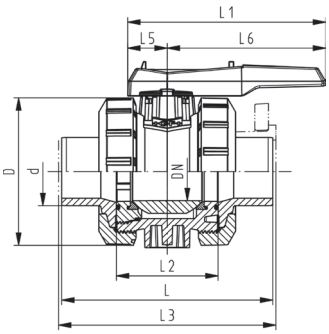
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from +GF+
- Individual configuration of the valve possible
- Multifunctional module with integrated limit switches (DN65-100)

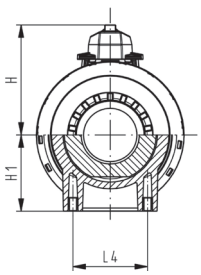


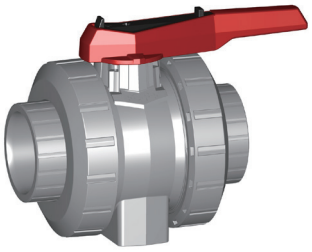
d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	16	71	**163 546 381**	1	0.162	**163 546 391**	1	0.162
20	15	16	185	**163 546 382**	1	0.162	**163 546 392**	1	0.162
25	20	16	350	**163 546 383**	1	0.247	**163 546 393**	1	0.247
32	25	16	700	**163 546 384**	1	0.367	**163 546 394**	1	0.367
40	32	16	1000	**163 546 385**	1	0.665	**163 546 395**	1	0.665
50	40	16	1600	**163 546 386**	1	0.895	**163 546 396**	1	0.895
63	50	16	3100	**163 546 387**	1	1.655	**163 546 397**	1	1.655
75	65	16	5000	**163 546 388**	1	5.500	**163 546 398**	1	5.500
90	80	16	7000	**163 546 389**	1	8.200	**163 546 399**	1	8.200
110	100	16	11000	**163 546 390**	1	12.900	**163 546 400**	1	12.900



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)
16	50	61	27	12	114	82	56	25	35	47	M6	90
20	50	61	27	12	124	82	56	25	35	47	M6	96
25	58	74	30	12	143	105	65	25	44	62	M6	109
32	68	80	36	15	154	105	71	45	44	62	M6	114
40	84	95	44	15	174	131	85	45	57	74	M8	126
50	97	102	51	15	193	131	89	45	57	74	M8	135
63	124	117	64	15	223	152	101	70	66	86	M8	151
75	166	150	85	15	284	269	136	70	64	206	M8	199
90	200	161	105	15	301	269	141	70	64	206	M8	202
110	238	178	123	22	340	319	164	120	64	256	M12	221







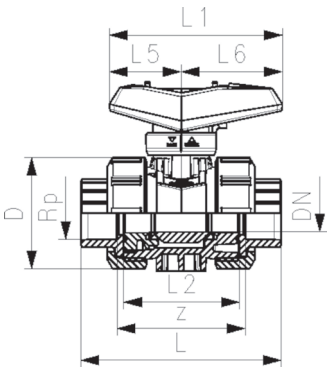
Ball valve type 546 Pro PVC-C
With threaded sockets Rp

Model:

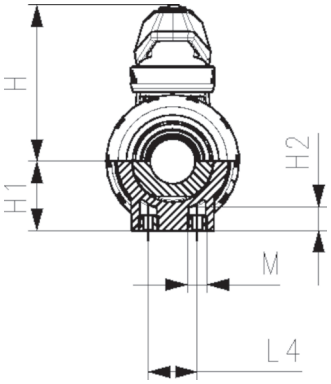
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

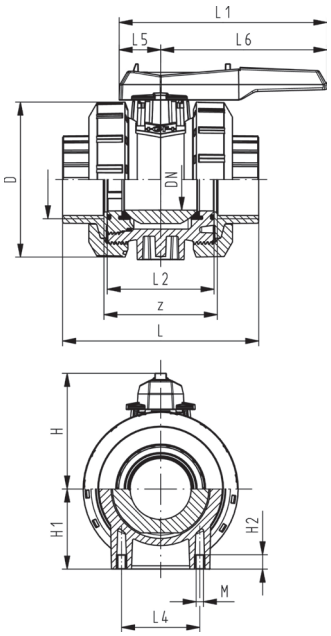
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from +GF+
- Individual configuration of the valve possible
- Multifunctional module with integrated limit switches (DN65-100)



d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	Rp	⅜	10	71	**163 546 401**	1	0.162
20	15	Rp	½	10	185	**163 546 402**	1	0.162
25	20	Rp	¾	10	350	**163 546 403**	1	0.247
32	25	Rp	1	10	700	**163 546 404**	1	0.367
40	32	Rp	1 ¼	10	1000	**163 546 405**	1	0.665
50	40	Rp	1 ½	10	1600	**163 546 406**	1	0.895
63	50	Rp	2	10	3100	**163 546 407**	1	1.655
75	65	Rp	2 ½	10	5000	**163 546 408**	1	5.400
90	80	Rp	3	10	7000	**163 546 409**	1	8.100
110	100	Rp	4	10	11000	**163 546 410**	1	12.700

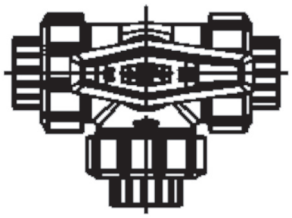


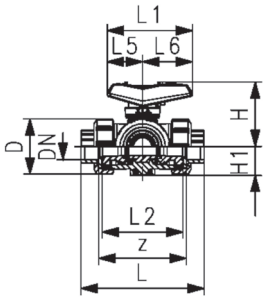
FKM Code	SP	Weight (kg)
163 546 411	1	0.162
163 546 412	1	0.162
163 546 413	1	0.247
163 546 414	1	0.367
163 546 415	1	0.665
163 546 416	1	0.895
163 546 417	1	1.655
163 546 418	1	5.400
163 546 419	1	8.100
163 546 420	1	12.700

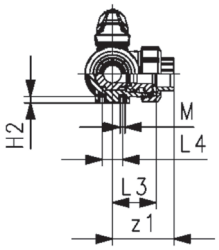


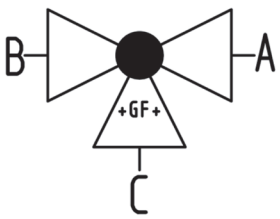
D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)
50	61	27	12	95	82	56	25	35	47	M6	73
50	61	27	12	100	82	56	25	35	47	M6	71
58	74	30	12	114	106	65	25	44	62	M6	82
68	80	36	12	127	106	71	25	44	62	M6	89
84	95	44	15	146	131	85	45	57	74	M8	104
97	102	51	15	152	131	89	45	57	74	M8	110
124	117	64	15	176	152	101	45	66	86	M8	125
166	150	85	15	233	270	136	70	64	206	M8	176
200	161	105	15	254	270	141	70	64	206	M8	191
238	178	123	22	301	320	164	120	64	256	M12	226

Type 543 Pro









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

Model:

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

Option:

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

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	50	**163 543 081**	1	0.265	**163 543 091**	1	0.265
20	15	½	10	75	**163 543 082**	1	0.272	**163 543 092**	1	0.272
25	20	¾	10	150	**163 543 083**	1	0.391	**163 543 093**	1	0.391
32	25	1	10	280	**163 543 084**	1	0.598	**163 543 094**	1	0.598
40	32	1 ¼	10	480	**163 543 085**	1	1.018	**163 543 095**	1	1.018
50	40	1 ½	10	620	**163 543 086**	1	1.480	**163 543 096**	1	1.496
63	50	2	10	1230	**163 543 087**	1	2.938	**163 543 097**	1	2.938

D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
50	61	28	8	123	82	73	36	25	35	47	6	85	42
50	61	28	8	122	82	73	36	25	35	47	6	77	38
58	74	32	8	141	106	86	43	25	44	62	6	92	46
68	80	36	8	161	106	99	50	25	44	62	6	105	53
84	95	45	9	187	131	120	60	45	57	74	8	126	63
97	102	51	9	213	131	137	69	45	57	74	8	143	72
124	117	65	9	261	152	179	89	45	66	86	8	185	92

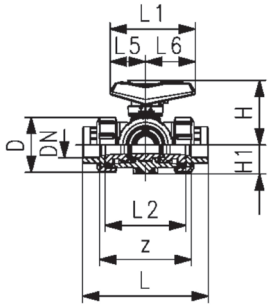
3-Way ball valve type 543 Pro PVC-C
Horizontal/L-port
With threaded sockets NPT

Model:

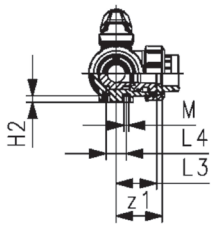
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel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

Option:

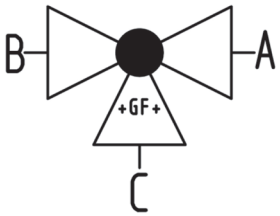
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



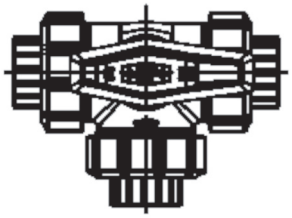
d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	NPT	⅜	10	50	**163 543 101**	1	0.265
20	15	NPT	½	10	75	**163 543 102**	1	0.272
25	20	NPT	¾	10	150	**163 543 103**	1	0.391
32	25	NPT	1	10	280	**163 543 104**	1	0.598
40	32	NPT	1 ¼	10	480	**163 543 105**	1	1.018
50	40	NPT	1 ½	10	620	**163 543 106**	1	1.509
63	50	NPT	2	10	1230	**163 543 107**	1	2.938



FKM Code	SP	Weight (kg)
163 543 111	1	0.265
163 543 112	1	0.272
163 543 113	1	0.391
163 543 114	1	0.598
163 543 115	1	1.018
163 543 116	1	1.509
163 543 117	1	2.938



D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
50	61	28	8	115	82	73	36	25	35	47	6	87	43
50	61	28	8	114	82	73	36	25	35	47	6	81	40
58	74	32	8	131	106	86	43	25	44	62	6	96	48
68	80	36	8	155	106	99	50	25	44	62	6	111	56
84	95	45	9	181	131	120	60	45	57	74	8	134	67
97	102	51	9	205	131	137	69	45	57	74	8	159	80
124	117	65	9	261	152	179	89	45	66	86	8	213	106



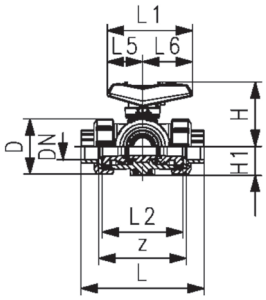
3-Way ball valve type 543 Pro PVC-C
Horizontal/T-port
With solvent cement sockets ASTM

Model:

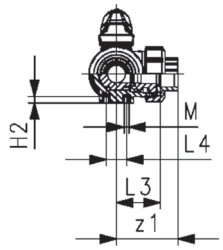
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel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

Option:

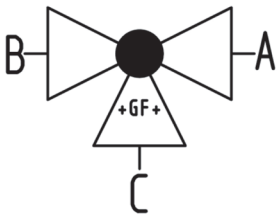
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	140	**163 543 281**	1	0.264	**163 543 291**	1	0.264
20	15	½	10	200	**163 543 282**	1	0.271	**163 543 292**	1	0.271
25	20	¾	10	470	**163 543 283**	1	0.389	**163 543 293**	1	0.389
32	25	1	10	793	**163 543 284**	1	0.590	**163 543 294**	1	0.590
40	32	1 ¼	10	1290	**163 543 285**	1	1.007	**163 543 295**	1	1.007
50	40	1 ½	10	1910	**163 543 286**	1	1.458	**163 543 296**	1	1.487
63	50	2	10	3100	**163 543 287**	1	2.889	**163 543 297**	1	2.889



D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
50	61	28	8	123	82	73	36	25	35	47	6	85	42
50	61	28	8	122	82	73	36	25	35	47	6	77	38
58	74	32	8	141	106	86	43	25	44	62	6	92	46
68	80	36	8	161	106	99	50	25	44	62	6	105	53
84	95	45	9	187	131	120	60	45	57	74	8	126	63
97	102	51	9	213	131	137	69	45	57	74	8	143	72
124	117	65	9	261	152	179	89	45	66	86	8	185	92



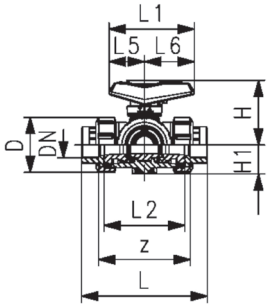
3-Way ball valve type 543 Pro PVC-C
Horizontal/T-port
With threaded sockets NPT

Model:

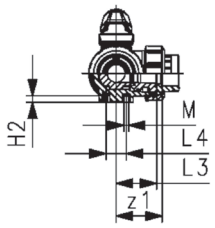
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel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

Option:

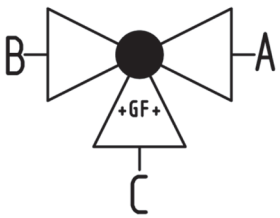
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



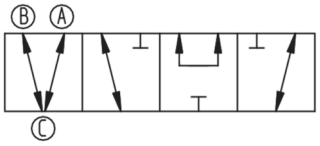
d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	NPT	⅜	10	140	**163 543 301**	1	0.264
20	15	NPT	½	10	200	**163 543 302**	1	0.271
25	20	NPT	¾	10	470	**163 543 303**	1	0.389
32	25	NPT	1	10	793	**163 543 304**	1	0.590
40	32	NPT	1 ¼	10	1290	**163 543 305**	1	1.007
50	40	NPT	1 ½	10	1910	**163 543 306**	1	1.487
63	50	NPT	2	10	3100	**163 543 307**	1	2.889



FKM Code	SP	Weight (kg)
163 543 311	1	0.264
163 543 312	1	0.271
163 543 313	1	0.389
163 543 314	1	0.590
163 543 315	1	1.007
163 543 316	1	1.487
163 543 317	1	2.889

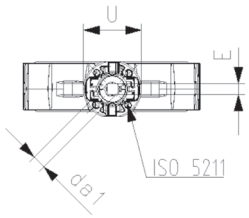


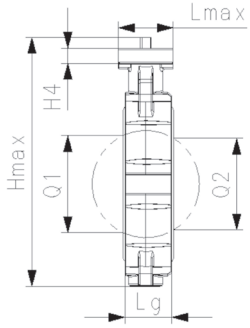
D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
50	61	28	8	115	82	73	36	25	35	47	6	87	43
50	61	28	8	114	82	73	36	25	35	47	6	81	40
58	74	32	8	131	106	86	43	25	44	62	6	96	48
68	80	36	8	155	106	99	50	25	44	62	6	111	56
84	95	45	9	181	131	120	60	45	57	74	8	134	67
97	102	51	9	205	131	137	69	45	57	74	8	159	80
124	117	65	9	261	152	179	89	45	66	86	8	213	106

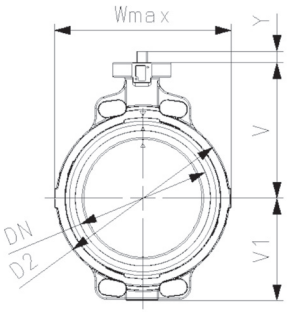


Butterfly vlaves

Type 567







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

Note:

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

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	740	**163 567 802**	1	0.831	**163 567 822**	1	0.835
75	2 ½	65	10	1500	**163 567 803**	1	0.947	**163 567 823**	1	0.952
90	3	80	10	2400	**163 567 804**	1	1.079	**163 567 824**	1	1.097
110	4	100	10	3800	**163 567 805**	1	1.759	**163 567 825**	1	1.737
140	5	125	10	8600	**163 567 806**	1	2.361	**163 567 826**	1	2.379
160	6	150	10	11400	**163 567 807**	1	3.289	**163 567 827**	1	3.364
225	8	200	10	19900	**163 567 808**	1	5.269	**163 567 828**	1	5.094
280	10	250	10	34000	**163 567 809**	1	12.700	**163 567 829**	1	11.700
315	12	300	10	50000	**163 567 810**	1	16.100	**163 567 830**	1	16.050

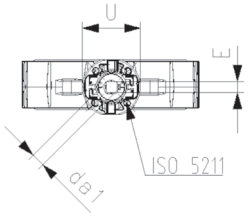
d (mm)	PTFE Code	Weight (kg)
63	**163 567 832**	0.947
75	**163 567 833**	0.947
90	**163 567 834**	1.079
110	**163 567 835**	1.759
140	**163 567 836**	2.361
160	**163 567 837**	3.289
225	**163 567 838**	5.269
280		
315		

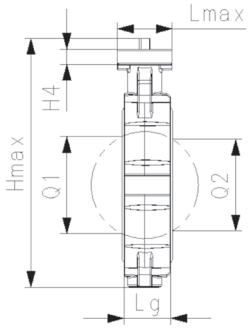
d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	k (mm)	Y (mm)	E (mm)
63	238.3	84.8	118.4	90	133.3	23	78.8	45	104	40		125	26.2	11
75	251.2	84.8	132.5	90	139.9	23	85.1	46	115	54	35	145	26.2	11
90	263.0	84.8	136.8	90	145.6	23	91.2	49	131	67	50	160	26.2	11
110	287.5	84.8	161.0	90	166.4	23	105.7	56	161	88	74	180	15.4	14
140	314.2	84.8	187.0	90	180.0	23	118.8	64	187	113	97	210	15.4	14
160	338.3	84.8	215.0	90	189.0	23	130.9	72	215	139	123	240	18.4	17
225	387.2	84.8	267.0	90	210.5	23	158.3	73	267	178	169	295	18.4	17
280	508.9	125.0	329.0	125	262.6	23	206.1	113	329	210	207	350	40.2	22
315	553.3	125.0	380.4	125	284.3	23	228.8	113	379	256	253	400	40.2	22

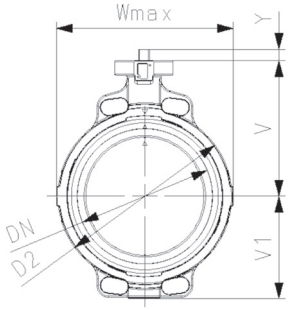
d (mm)	da1 (mm)
63	13.5
75	13.5
90	13.5
110	17.3
140	17.3

table continued on the next page

d	da1
(mm)	(mm)
160	21.1
225	21.1
280	27.0
315	27.0







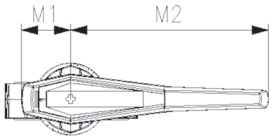
Butterfly valve type 567 PVC-C
Hand lever with ratchet settings

Model:

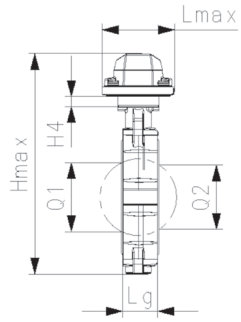
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

Note:

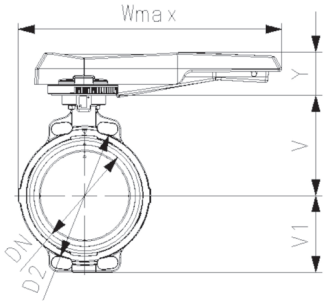
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



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



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



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

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

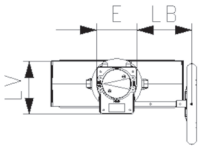
Butterfly valve type 567 PVC-C
Reduction gear with handwheel

Model:

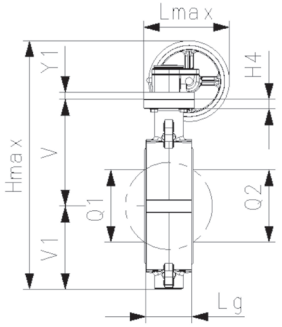
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

Note:

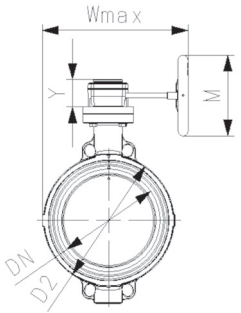
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



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



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



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

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

Type 578

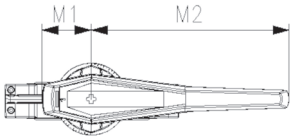
Lug-style, end installation butterfly valve type 578 PVC-C
With hand lever
Flange standard ANSI/ASME

Model:

- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 588, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ANSI/ASME B 16.5 class 150
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

Option:

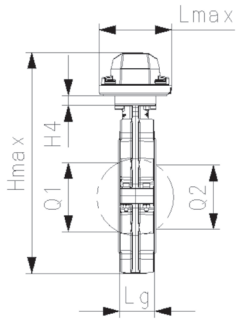
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered seperately)

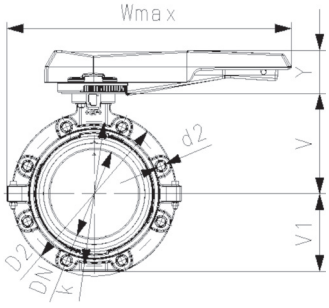


Note:

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

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	740	**163 578 102**	1	1.800	**163 578 122**	1	1.800
75	2 ½	65	10	1500	**163 578 103**	1	1.895	**163 578 123**	1	1.895
90	3	80	10	2400	**163 578 104**	1	2.251	**163 578 124**	1	2.251
110	4	100	10	3800	**163 578 105**	1	3.146	**163 578 125**	1	3.146
140	5	125	10	8600	**163 578 106**	1	4.660	**163 578 126**	1	4.660
160	6	150	10	11400	**163 578 107**	1	6.430	**163 578 127**	1	6.430
225	8	200	10	19900	**163 578 108**	1	8.625	**163 578 128**	1	8.625
280	10	250	6	34000	**163 578 109**	1	19.528	**163 578 129**	1	19.528
315	12	300	6	50000	**163 578 110**	1	26.106	**163 578 130**	1	26.106





d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)
63	278.9	115.2	287.8	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	291.8	115.2	296.3	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	303.6	115.2	310.3	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	343.6	115.2	375.2	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	372.8	115.2	391.2	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9
160	393.6	115.2	395.2	90	189.0	23	134.5	71.5	284	139	123	UNC 3/4	241.3
225	458.1	149.4	588.1	90	210.5	23	161.5	72.5	341	178	169	UNC 3/4	298.5
280	557.6	149.4	628.1	125	264.4	23	206.9	113.2	412	210	207	UNC 7/8	362.0
315	607.0	149.4	663.1	125	285.2	23	235.5	114.6	482	256	253	UNC 7/8	431.8

d (mm)	M1 (mm)	M2 (mm)
63	63.7	205.6
75	63.7	205.6
90	63.7	205.6
110	63.7	255.2
140	63.7	255.2
160	63.7	255.2
225	101.7	408.1
280	101.7	408.1
315	101.7	408.1

Lug-style, end installation butterfly valve type 578 PVC-C
With gear box
Flange standard ANSI/ASME

Model:

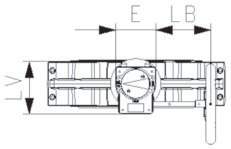
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 588, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ANSI/ASME B 16.5 class 150

Option:

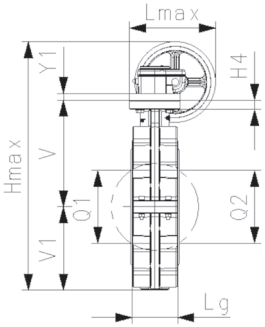
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered seperately)

Note:

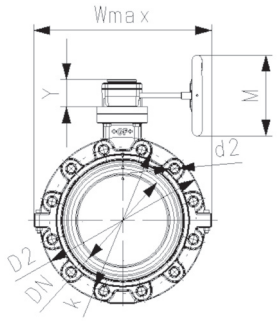
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	740	**163 578 142**	1	3.535	**163 578 162**	1	3.535
75	2 ½	65	10	1500	**163 578 143**	1	3.698	**163 578 163**	1	3.698
90	3	80	10	2400	**163 578 144**	1	3.929	**163 578 164**	1	3.929
110	4	100	10	3800	**163 578 145**	1	4.834	**163 578 165**	1	4.834
140	5	125	10	8600	**163 578 146**	1	6.348	**163 578 166**	1	6.348
160	6	150	10	11400	**163 578 147**	1	8.109	**163 578 167**	1	8.109
225	8	200	10	19900	**163 578 148**	1	9.353	**163 578 168**	1	9.353
280	10	250	10	34000	**163 578 149**	1	21.210	**163 578 169**	1	21.210
315	12	300	10	50000	**163 578 150**	1	27.746	**163 578 170**	1	27.746



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)
63	319.4	169.1	263.5	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	332.3	169.1	272.0	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	344.1	169.1	286.0	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	380.8	169.1	301.0	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	410.0	169.1	317.0	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9
160	430.8	169.1	321.0	90	189.0	23	134.5	71.5	284	139	123	UNC 3/4	241.3
225	479.3	169.1	360.0	90	210.5	23	161.5	72.5	341	178	169	UNC 3/4	298.5
280	615.6	212.6	440.0	125	264.4	23	206.9	113.2	412	210	207	UNC 7/8	362.0
315	665.0	212.6	510.0	125	285.2	23	235.5	114.6	482	256	253	UNC 7/8	431.8



d (mm)	Y (mm)	E (mm)	Y1 (mm)	M (mm)	LV (mm)	LB (mm)
63	61.2	80		160	112.3	129.5
75	61.2	80		160	112.3	129.5
90	61.2	80		160	112.3	129.5
110	61.2	80		160	112.3	129.5
140	61.2	80		160	112.3	129.5
160	61.2	80		160	112.3	129.5
225	61.2	80		160	112.3	129.5
280	68.4	100	17	200	130.0	134.0
315	68.4	100	17	200	130.0	134.0

Lug-style, end installation butterfly valve type 578 PVC-C
Bare shaft
Flange standard ANSI/ASME

Model:

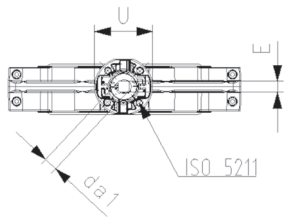
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 588, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ANSI/ASME B 16.5 class 150
- Interface F07 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211

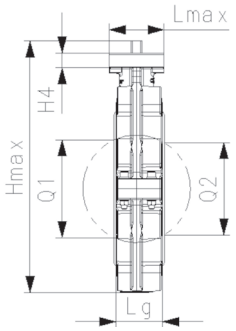
Option:

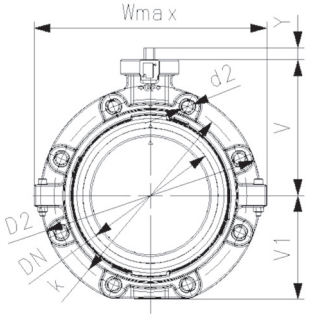
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered seperately)

Note:

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





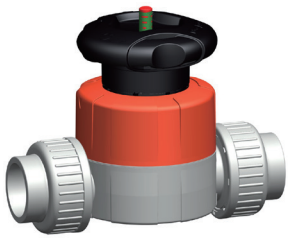


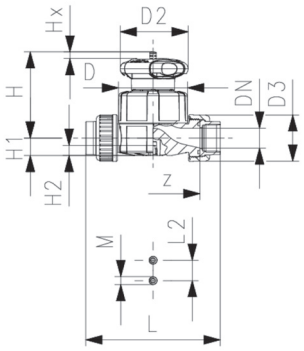
d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	740	**163 578 902**	1	1.299	**163 578 922**	1	1.299
75	2 ½	65	10	1500	**163 578 903**	1	1.456	**163 578 923**	1	1.456
90	3	80	10	2400	**163 578 904**	1	1.701	**163 578 924**	1	1.701
110	4	100	10	3800	**163 578 905**	1	2.606	**163 578 925**	1	2.606
140	5	125	10	8600	**163 578 906**	1	4.120	**163 578 926**	1	4.120
160	6	150	10	11400	**163 578 907**	1	5.881	**163 578 927**	1	5.881
225	8	200	10	19900	**163 578 908**	1	7.125	**163 578 928**	1	7.125
280	10	250	10	34000	**163 578 909**	1	17.880	**163 578 929**	1	17.880
315	12	300	10	50000	**163 578 910**	1	24.416	**163 578 930**	1	24.416

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)
63	238.3	84.8	159.5	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	251.2	84.8	166.1	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	263.0	84.8	171.8	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	288.9	84.8	181.4	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	318.1	84.8	195.4	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9
160	341.9	84.8	207.4	90	189.0	23	134.5	71.5	284	139	123	UNC 3/4	241.3
225	390.4	84.8	228.9	90	210.5	23	161.5	72.5	341	178	169	UNC 3/4	298.5
280	511.5	125.0	304.6	125	264.4	23	206.9	113.2	412	210	207	UNC 7/8	362.0
315	560.9	125.0	325.4	125	285.2	23	235.5	114.6	482	256	253	UNC 7/8	431.8

d (mm)	da1 (mm)
63	13.5
75	13.5
90	13.5
110	17.3
140	17.3
160	21.1
225	21.1
280	27.0
315	27.0

Diaphragm valves





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:

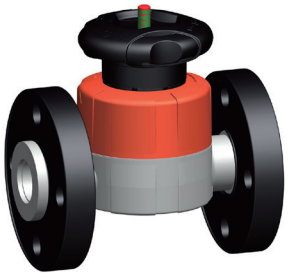
- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches

* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
20	15	½	10	125	**163 514 612**	1	0.310
25	20	¾	10	271	**163 514 613**	1	0.445
32	25	1	10	481	**163 514 614**	1	0.708
40	32	1 ¼	10	759	**163 514 615**	1	0.998
50	40	1 ½	10	1263	**163 514 616**	1	1.692
63	50	2	10	1728	**163 514 617**	1	2.583

FKM Code	PTFE/EPDM Code	SP	Weight (kg)
163 514 662	**163 514 632**	1	0.310
163 514 663	**163 514 633**	1	0.522
163 514 664	**163 514 634**	1	0.727
163 514 665	**163 514 635**	1	1.412
163 514 666	**163 514 636**	1	1.726
163 514 667	**163 514 637**	1	3.382

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



Diaphragm valve type 517 PVC-C
With backing flanges PP-V Inch ANSI

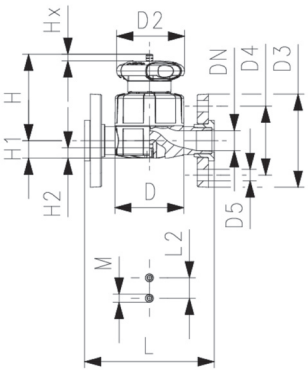
Model:

- 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

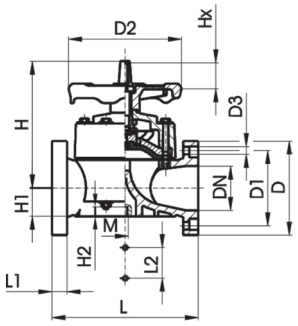
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
20	15	½	10	125	**163 517 712**	1	0.529
25	20	¾	10	271	**163 517 713**	1	0.696
32	25	1	10	481	**163 517 714**	1	1.388
40	32	1 ¼	10	759	**163 517 715**	1	1.797
50	40	1 ½	10	1263	**163 517 716**	1	2.854
63	50	2	10	1728	**163 517 717**	1	4.022

FKM Code	PTFE/EPDM Code	SP	Weight (kg)
163 517 762	**163 517 732**	1	0.456
163 517 763	**163 517 733**	1	0.696
163 517 764	**163 517 734**	1	0.951
163 517 765	**163 517 735**	1	1.818
163 517 766	**163 517 736**	1	2.883
163 517 767	**163 517 737**	1	4.050

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



DN 80-100

Diaphragm valve type 317 PVC-C
With backing flange PP-V Inch ANSI

Model:

- Flat sealing faces
- DN65 with backing flange
- Overall length according to EN 558
- Connecting dimension ANSI/ASME B 16.5 / ASTM D 4024

Option:

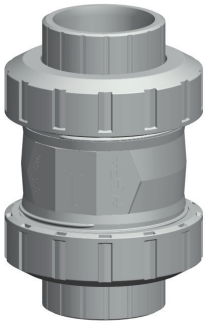
- Handwheel with built-in locking mechanism (standard version is nonlockable)

*** DN80, DN100 and DN150 fixed flanges metric and inch ANSI B16.5**

	d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	PTFE with EPDM supp. diaphragm Code
	75	65	2 ½	10	992	**163 317 623**	5.335	**163 317 668**	**163 317 638**
*	90	80	3	10	1700	**163 317 024**	9.722	**163 317 069**	
*	110	100	4	6	2700	**163 317 025**	13.600	**163 317 370**	**163 317 040**

	Weight (kg)	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
	4.425	185		152		201	46		290		70	M8		4
*		200	160	270	18	265	57	23	310	35	120	M12	40	8
*	13.799	225	180	270	18	304	69	23	350	35	120	M12	50	8

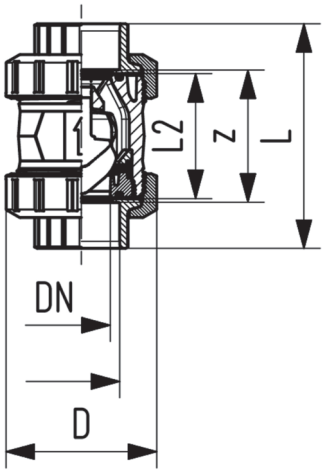
Cone check valves



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

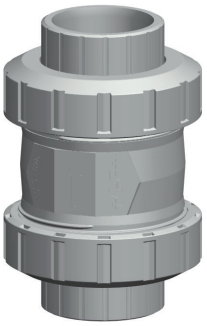
Model:

- 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



d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	NPT	⅜	16	190	**163 561 101**	1	0.120
20	15	NPT	½	16	180	**163 561 102**	1	0.130
25	20	NPT	¾	16	380	**163 561 103**	1	0.260
32	25	NPT	1	16	460	**163 561 104**	1	0.290
40	32	NPT	1 ¼	16	850	**163 561 105**	1	0.490
50	40	NPT	1 ½	16	1080	**163 561 106**	1	0.710
63	50	NPT	2	16	1670	**163 561 107**	1	1.460
75	65	NPT	2 ½	16	2950	**163 561 108**	1	3.500
90	80	NPT	3	16	3600	**163 561 109**	1	5.500
110	100	NPT	4	16	4150	**163 561 110**	1	8.820

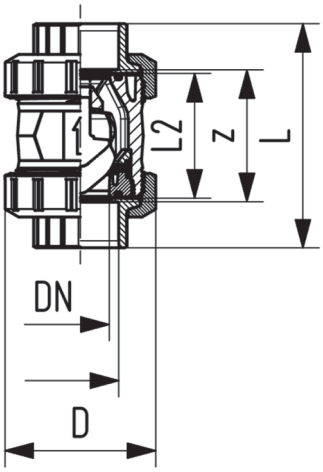
FKM Code	SP	Weight (kg)	D (mm)	L (mm)	L2 (mm)	z (mm)
163 561 111	1	0.120	50	105	56	67
163 561 112	1	0.130	50	105	56	61
163 561 113	1	0.280	58	121	65	70
163 561 114	1	0.290	68	133	71	76
163 561 115	1	0.490	84	154	85	90
163 561 116	1	0.720	97	164	89	94
163 561 117	1	1.470	124	183	101	107
163 561 118	1	3.510	166	233	136	144
163 561 119	1	5.520	200	254	141	151
163 561 120	1	8.860	238	301	164	174



Check valve type 562
With solvent cement socket Inch ASTM
With Halar coated spring

Model:

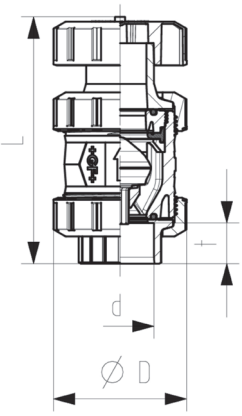
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
10	⅜	16	190	**800 070 485**	1	0.130	**800 070 486**	1	0.130
15	½	16	180	**800 054 647**	1	0.130	**800 058 405**	1	0.130
20	¾	16	380	**800 053 919**	1	0.250	**800 065 033**	1	0.250
25	1	16	460	**800 052 424**	1	0.320	**800 056 445**	1	0.320
32	1 ¼	16	850	**800 054 654**	1	0.530	**800 070 487**	1	0.530
40	1 ½	16	1080	**800 052 425**	1	0.810	**800 056 447**	1	0.810
50	2	16	1670	**800 052 426**	1	1.530	**800 052 295**	1	1.530

D (mm)	L (mm)	L2 (mm)	z (mm)
50	105	56	67
50	105	56	61
58	121	65	70
68	133	71	76
84	154	85	90
97	164	89	94
124	183	101	107

Process control valves

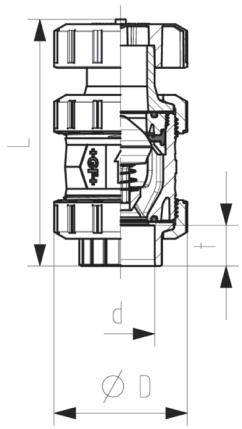


Ventilating and bleed valve
Type 591 PVC-C
With solvent cement sockets Inch ASTM
Inclusive 2 threaded valve ends NPT

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

DN (mm)	Thread Type	Size (inch)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)
10	NPT	⅜	16	**163 591 101**	**163 591 111**	50	111	19
15	NPT	½	16	**163 591 102**	**163 591 112**	50	119	23
20	NPT	¾	16	**163 591 103**	**163 591 113**	58	137	25
25	NPT	1	16	**163 591 104**	**163 591 114**	68	152	28
32	NPT	1 ¼	16	**163 591 105**	**163 591 115**	84	176	31
40	NPT	1 ½	16	**163 591 106**	**163 591 116**	97	193	35
50	NPT	2	16	**163 591 107**	**163 591 117**	124	229	38
65	NPT	2 ½	16	**163 591 108**	**163 591 118**	166	258	45
80	NPT	3	16	**163 591 109**	**163 591 119**	200	277	49
100	NPT	4	16	**163 591 110**	**163 591 120**	238	320	58



Ventilating valve type 595 PVC-C
With solvent cement sockets Inch ASTM
Inclusive 2 threaded valve ends NPT

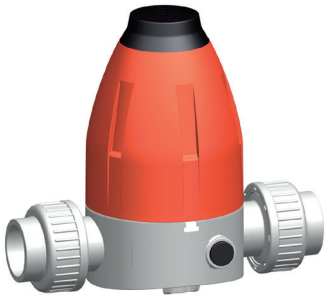
Model:

- 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

DN (mm)	Thread Type	Size (inch)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)
10	NPT	⅜	16	**163 595 101**	**163 595 111**	50	111	19
15	NPT	½	16	**163 595 102**	**163 595 112**	50	119	23
20	NPT	¾	16	**163 595 103**	**163 595 113**	58	137	25
25	NPT	1	16	**163 595 104**	**163 595 114**	68	152	28
32	NPT	1 ¼	16	**163 595 105**	**163 595 115**	84	176	31
40	NPT	1 ½	16	**163 595 106**	**163 595 116**	97	193	35
50	NPT	2	16	**163 595 107**	**163 595 117**	124	229	38
65	NPT	2 ½	16	**163 595 108**	**163 595 118**	166	258	45
80	NPT	3	16	**163 595 109**	**163 595 119**	200	277	49
100	NPT	4	16	**163 595 110**	**163 595 120**	238	320	58

Pressure regulating valves

Type 582

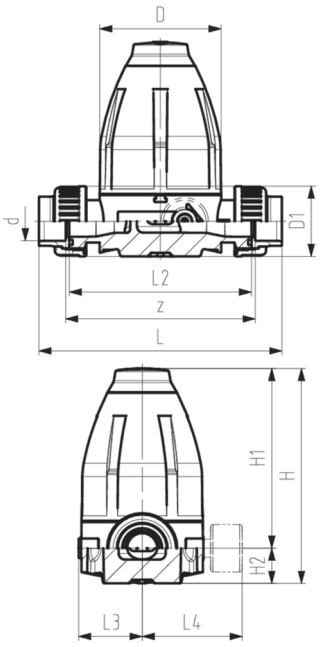


Pressure reducing valve type 582 PVC-C
Unions with solvent cement sockets ASTM
Without manometer

Model:

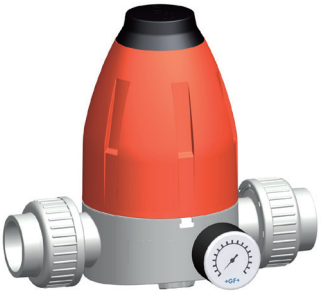
- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

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



d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	SP	GP	O-rings FKM Code
20	15	½	10	**163 582 202**	0.730	1	1	**163 582 212**
25	20	¾	10	**163 582 203**	1.540	1		**163 582 213**
32	25	1	10	**163 582 204**	1.580	1		**163 582 214**
40	32	1 ¼	10	**163 582 205**	4.220	1		**163 582 215**
50	40	1 ½	10	**163 582 206**	4.410	1		**163 582 216**
63	50	2	10	**163 582 207**	4.660	1		**163 582 217**

D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	M	z (mm)	Inch (inch)
79	43	132	111	21	12	171	120	42	M6	126	1/2
100	51	177	148	29	14	207	150	53	M6	156	3/4
100	58	177	148	29	14	214	150	53	M6	156	1
147	72	251	207	44	21	275	205	76	M8	211	1 1/4
147	83	251	207	44	21	281	205	76	M8	211	1 1/2
147	101	251	207	44	21	288	205	76	M8	211	2

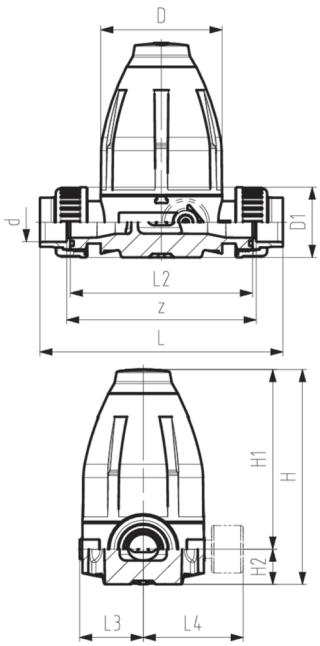


Pressure reducing valve type 582 PVC-C
Unions with solvent cement sockets ASTM
With manometer

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.

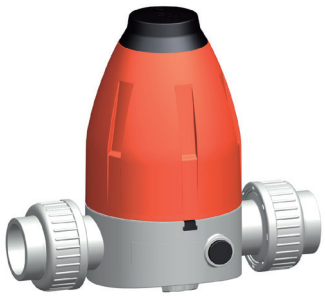
0.3-3.0 bar (4-44 psi) on request



d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	SP	O-rings FKM Code
20	15	½	10	**163 582 222**	0.760	1	**163 582 232**
25	20	¾	10	**163 582 223**	1.570	1	**163 582 233**
32	25	1	10	**163 582 224**	1.610	1	**163 582 234**
40	32	1 ¼	10	**163 582 225**	4.250	1	**163 582 235**
50	40	1 ½	10	**163 582 226**	4.440	1	**163 582 236**
63	50	2	10	**163 582 227**	4.690	1	**163 582 237**

D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	L4 (mm)	M	z (mm)	Inch (inch)
79	43	132	111	21	12	171	120	42	77	M6	126	1/2
100	51	177	148	29	14	207	150	53	88	M6	156	3/4
100	58	177	148	29	14	214	150	53	88	M6	156	1
147	72	251	207	44	21	275	205	76	111	M8	211	1 1/4
147	83	251	207	44	21	281	205	76	111	M8	211	1 1/2
147	101	251	207	44	21	288	205	76	111	M8	211	2

Type 586

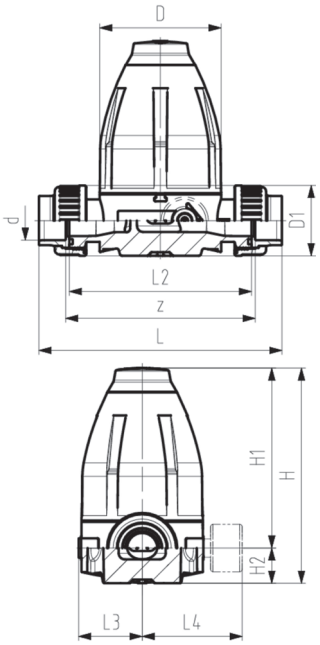


Pressure retaining valve type 586 PVC-C
Unions with solvent cement sockets ASTM
Without manometer

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

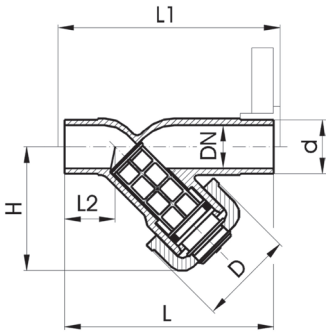


d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	SP	O-rings FKM Code
20	15	½	10	**163 586 202**	0.720	1	**163 586 212**
25	20	¾	10	**163 586 203**	1.560	1	**163 586 213**
32	25	1	10	**163 586 204**	1.600	1	**163 586 214**
40	32	1 ¼	10	**163 586 205**	4.360	1	**163 586 215**
50	40	1 ½	10	**163 586 206**	4.430	1	**163 586 216**
63	50	2	10	**163 586 207**	4.690	1	**163 586 217**

D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	M	z (mm)	Inch (inch)
79	43	132	111	21	12	171	120	42	M6	126	1/2
100	51	177	148	29	14	207	150	53	M6	156	3/4
100	58	177	148	29	14	214	150	53	M6	156	1
147	72	251	207	44	21	275	205	76	M8	211	1 1/4
147	83	251	207	44	21	281	205	76	M8	211	1 1/2
147	101	251	207	44	21	288	205	76	M8	211	2

Strainers

Type 305



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)	FKM 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

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	closest inch (inch)
20	43	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

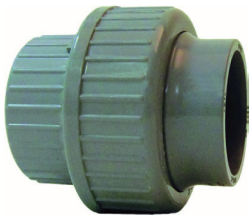
Screen stainless steel
Screen perforation 0.5 mm

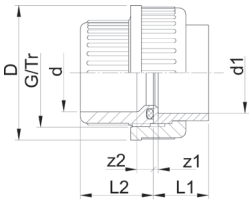
Model:

- 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

Adaptors and unions





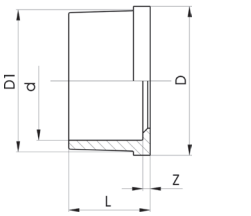
Adaptor union PVC-C metric/ASTM

Model:

- Union End: PVC-C solvent cement socket inch ASTM
- Union bush: PVC-C solvent cement socket metric
- Gasket: O-ring EPDM code no. 748 410 005-011
- Gasket: O-ring FKM code no. 749 410 005-011

d (mm)	PN (bar)	d1 (inch)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	3/8	**723 514 105**	10	0.022	**723 514 130**	1	0.022
20	10	1/2	**723 514 106**	10	0.047	**723 514 131**	1	0.047
25	10	3/4	**723 514 107**	10	0.065	**723 514 132**	1	0.065
32	10	1	**723 514 108**	10	0.103	**723 514 133**	1	0.093
40	10	1 1/4	**723 514 109**	10	0.174	**723 514 134**	1	0.161
50	10	1 1/2	**723 514 110**	5	0.239	**723 514 135**	1	0.226
63	10	2	**723 514 111**	5	0.435	**723 514 136**	1	0.372

d (mm)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)	G (inch)
16	19	14	35	22	25	3/4
20	20	16	43	25	26	1
25	25	19	51	28	29	1 1/4
32	29	22	58	31	33	1 1/2
40	32	26	74	35	39	2
50	35	31	83	38	46	2 1/4
63	38	37	100	41	58	2 3/4

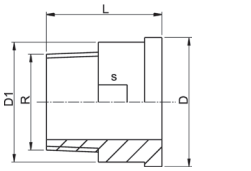


Union end PVC-C ASTM

Model:

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

PN (bar)	d1 (inch)	Code	SP	Weight (kg)	z (mm)	D (mm)	D1 (mm)	L (mm)
16	3/8	**723 602 005**	500	0.006	3	24	22	22
16	1/2	**723 602 006**	500	0.013	3	30	28	25
16	3/4	**723 602 007**	1200	0.016	3	39	36	28
16	1	**723 602 008**	650	0.025	3	45	42	32
16	1 1/4	**723 602 009**	210	0.040	3	57	53	35
16	1 1/2	**723 602 010**	380	0.049	3	63	59	38
16	2	**723 602 011**	250	0.080	3	78	74	41
16	2 1/2	**723 602 012**	20	0.169	3	101	91	47
16	3	**723 602 013**	50	0.275	5	121	108	56
16	4	**723 602 014**	25	0.420	5	146	131	66



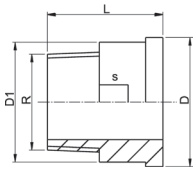
Union end stainless steel R

Model:

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

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	s (mm)
16	R	⅜	16	**724 600 705**	0.052	24	22	30	19
20	R	½	16	**724 600 706**	0.083	30	28	34	24
25	R	¾	16	**724 600 707**	0.125	39	36	36	32

table continued on the next page

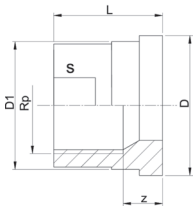


d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	s (mm)
32	R	1	16	**724 600 708**	0.189	45	42	40	37
40	R	1 ¼	16	**724 600 709**	0.356	57	53	46	48
50	R	1 ½	16	**724 600 710**	0.407	63	59	48	54
63	R	2	16	**724 600 711**	0.668	78	74	55	69

Union end stainless steel Rp

Model:

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



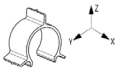
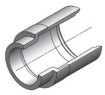
d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	D (mm)	D1 (mm)	L (mm)	s (mm)
16	Rp	⅜	16	**724 600 655**	0.030	9	24	22	19	19
20	Rp	½	16	**724 600 656**	0.060	11	30	28	24	24
25	Rp	¾	16	**724 600 657**	0.092	11	39	36	26	29
32	Rp	1	16	**724 600 658**	0.137	12	45	42	29	36
40	Rp	1 ¼	16	**724 600 659**	0.226	14	57	53	33	45
50	Rp	1 ½	16	**724 600 660**	0.314	15	63	59	34	54
63	Rp	2	16	**724 600 661**	0.438	15	78	74	39	63

Double-See™ Piping System

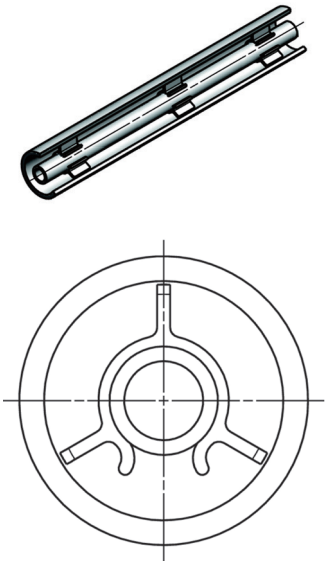
Scan the QR code to view:

- Double-See™ system overview brochure

- Double-See™ technical manual

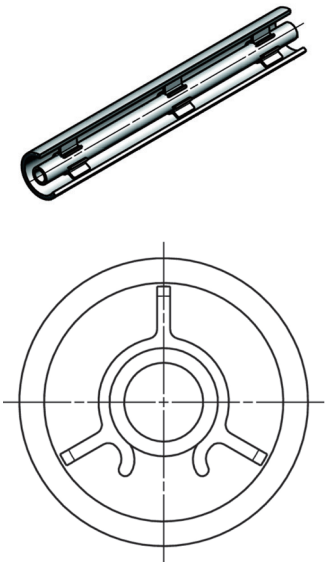
Double-See™ Piping System		Page
	Pipes	288
	Elbows	294
	Tees	298
	Leak detection fittings	302
	Closure Couplings	309
	Terminations	310
	Valves	312
	Containment valve boxes	314
	Solvent cements and tools	319

Pipes



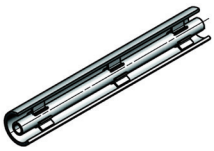
Pipe, PVC 80 x PVC 80 (20-ft lengths)

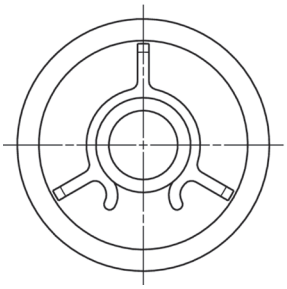
Inch (inch)	Code
1/2 x 2	**8808005020AB**
3/4 x 3	**8808007030AB**
1 x 3	**8808010030AB**
1-1/2 x 4	**8808015040AB**
2 x 4	**8808020040AB**
3 x 6	**8808030060AB**
4 x 8	**8808040080AB**
6 x 10	**8808060100AB**
8 x 12	**8808080120AB**



Pipe, PVC 80 x PVC 40 (20-ft lengths)

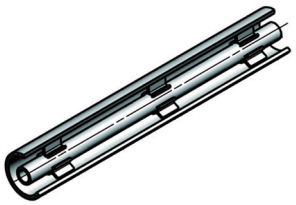
Size (inch)	Code
1/2 x 2	**8408005020AB**
3/4 x 3	**8408007030AB**
1 x 3	**8408010030AB**
1-1/2 x 4	**8408015040AB**
2 x 4	**8408020040AB**
3 x 6	**8408030060AB**
4 x 8	**8408040080AB**
6 x 10	**8408060100AB**
8 x 12	**8408080120AB**

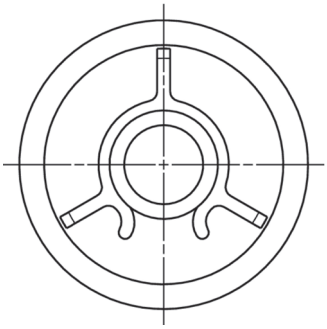




Pipe, PVC80 x CPVC80 (20-ft lengths)

Inch (inch)	Code
1/2 x 2	**8908005020AB**
3/4 x 3	**8908007030AB**
1 x 3	**8908010030AB**
1-1/2 x 4	**8908015040AB**
2 x 4	**8908020040AB**
3 x 6	**8908030060AB**
4 x 8	**8908040080AB**
6 x 10	**8908060100AB**

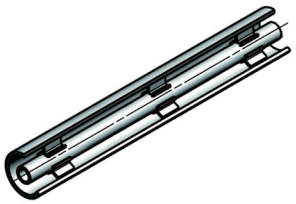


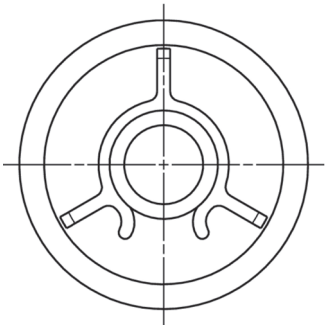


Pipe, PVC 80 x CPVC 40 (20-ft lengths)

Size 6 x 10 supplied in 10 foot lengths

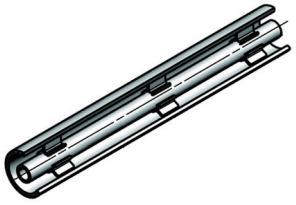
Inch (inch)	Code
1/2 x 2	**8608005020AB**
3/4 x 3	**8608007030AB**
1 x 3	**8608010030AB**
1-1/2 x 4	**8608015040AB**
2 x 4	**8608020040AB**
3 x 6	**8608030060AB**
4 x 8	**8608040080AB**
6 x 10	**8608060100AB**

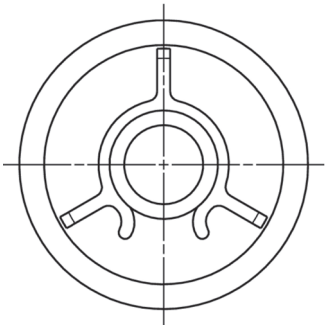




Pipe, PVC 80 x PVC 80 Clear (20-ft lengths)

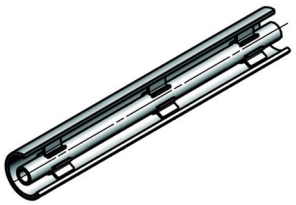
Size (inch)	Code
1/2 x 2	**8708005020AB**
3/4 x 3	**8708007030AB**
1 x 3	**8708010030AB**
1-1/2 x 4	**8708015040AB**
2 x 4	**8708020040AB**
3 x 6	**8708030060AB**

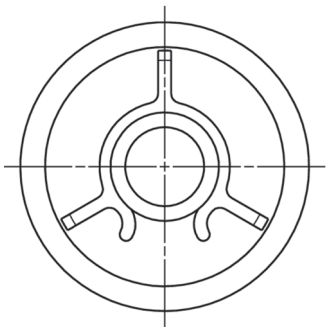




Pipe, PVC 80 x PVC 40 Clear (20-ft lengths)

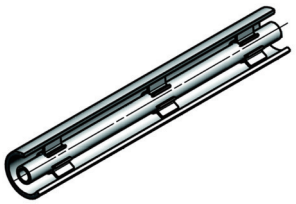
Size (inch)	Code
1/2 x 2	**8308005020AB**
3/4 x 3	**8308007030AB**
1 x 3	**8308010030AB**
1-1/2 x 4	**8308015040AB**
2 x 4	**8308020040AB**
3 x 6	**8308030060AB**
4 x 8	**8308040080AB**
6 x 10	**8308060100AB**
8 x 12	**8308080120AB**

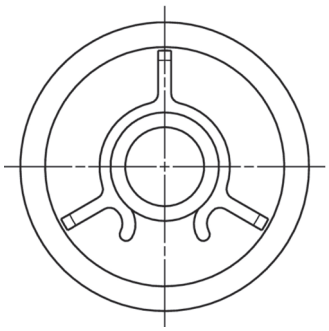




Pipe, PVC 40 White x PVC 40 White (20-ft lengths)

Size (inch)	Code
1/2 x 2	**4408005020AB**
3/4 x 3	**4408007030AB**
1 x 3	**4408010030AB**
1-1/2 x 4	**4408015040AB**
2 x 4	**4408020040AB**
3 x 6	**4408030060AB**
4 x 8	**4408040080AB**
6 x 10	**4408060100AB**





Pipe, PVC 80 Clear x PVC 40 Clear (20-ft lengths)

Size (inch)	Code
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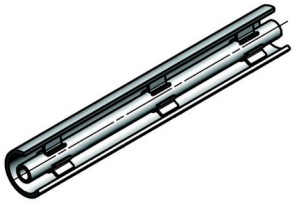
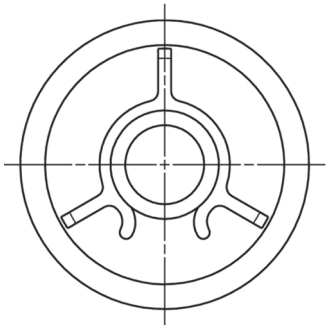
3/4 x 3	**7308007030AB**
1 x 3	**7308010030AB**
1-1/2 x 4	**7308015040AB**
2 x 4	**7308020040AB**
3 x 6	**7308030060AB**
4 x 8	**7308040080AB**
6 x 10	**7308060100AB**

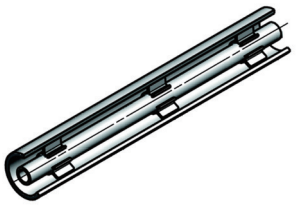


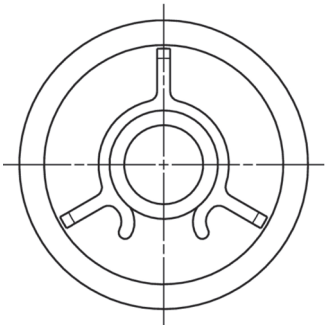


Pipe, PVC 40 Clear x PVC 40 Clear (20-ft lengths)

Size (inch)	Code
1/2 x 2	**3308005020AB**
3/4 x 3	**3308007030AB**
1 x 3	**3308010030AB**
1-1/2 x 4	**3308015040AB**
2 x 4	**3308020040AB**
3 x 6	**3308030060AB**
4 x 8	**3308040080AB**
6 x 10	**3308060100AB**

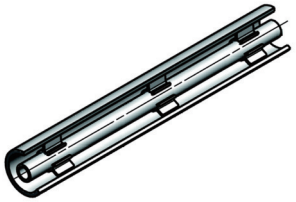
Pipe, CPVC 80 x PVC 80 (20-ft lengths)

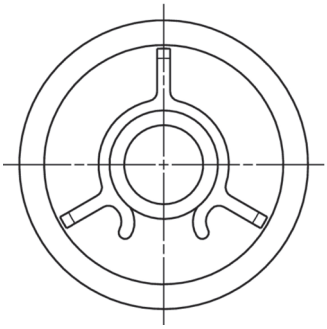




Inch (inch)	Code
1/2 x 2	**9808005020AB**
3/4 x 3	**9808007030AB**
1 x 3	**9808010030AB**
1-1/2 x 4	**9808015040AB**
2 x 4	**9808020040AB**
3 x 6	**9808030060AB**
4 x 8	**9808040080AB**
6 x 10	**9808060100AB**

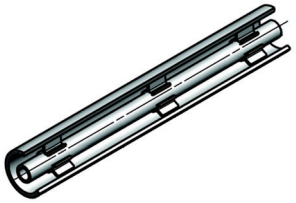
Pipe, CPVC 80 x PVC 40 (20-ft lengths)

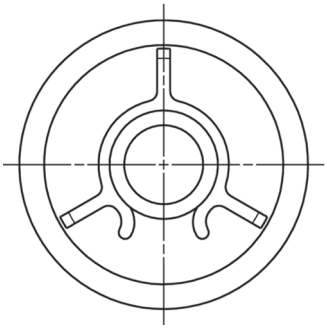




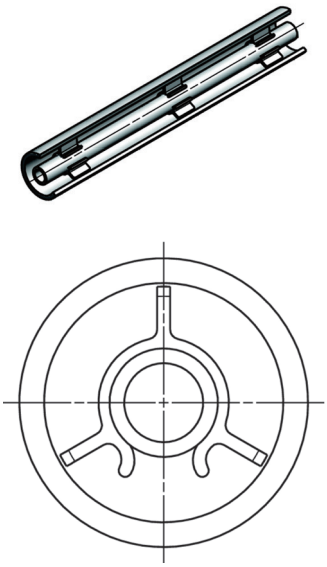
Inch (inch)	Code
1/2 x 2	**9408005020AB**
3/4 x 3	**9408007030AB**
1 x 3	**9408010030AB**
1-1/2 x 4	**9408015040AB**
2 x 4	**9408020040AB**
3 x 6	**9408030060AB**
4 x 8	**9408040080AB**
6 x 10	**9408060100AB**

Pipe, CPVC 80 x CPVC 80 (20-ft lengths)



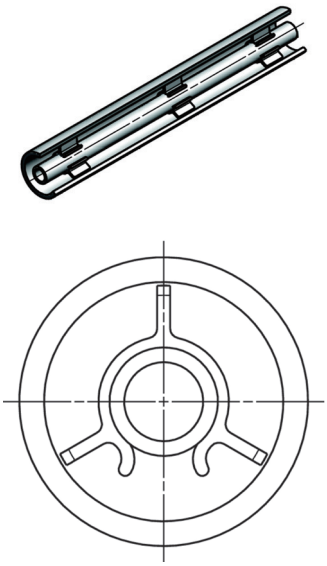


Size (inch)	Code
1/2 x 2	**9908005020AB**
3/4 x 3	**9908007030AB**
1 x 3	**9908010030AB**
1-1/2 x 4	**9908015040AB**
2 x 4	**9908020040AB**
3 x 6	**9908030060AB**
4 x 8	**9908040080AB**
6 x 10	**9908060100AB**



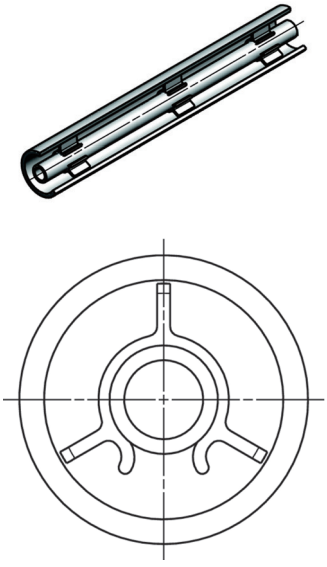
Pipe, CPVC 80 x CPVC 40 (20-ft lengths)

Size (inch)	Code
1/2 x 2	**9608005020AB**
3/4 x 3	**9608007030AB**
1 x 3	**9608010030AB**
1-1/2 x 4	**9608015040AB**
2 x 4	**9608020040AB**
3 x 6	**9608030060AB**
4 x 8	**9608040080AB**
6 x 10	**9608060100AB**



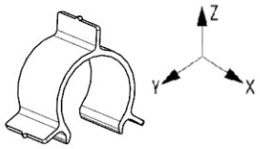
Pipe, CPVC 80 x PVC 80 Clear (20-ft lengths)

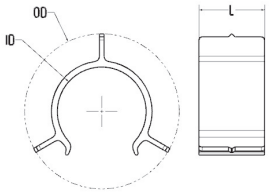
Inch (inch)	Code
1/2 x 2	**9708005020AB**
3/4 x 3	**9708007030AB**
1 x 3	**9708010030AB**
1-1/2 x 4	**9708015040AB**
2 x 4	**9708020040AB**
3 x 6	**9708030060AB**

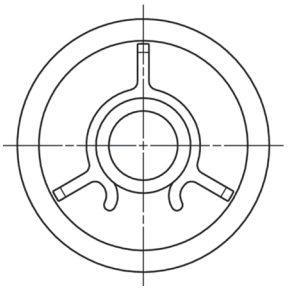


Pipe, CPVC 80 x PVC 40 Clear (20-ft lengths)

Inch (inch)	Code
1/2 x 2	**9308005020AB**
3/4 x 3	**9308007030AB**
1 x 3	**9308010030AB**
1-1/2 x 4	**9308015040AB**
2 x 4	**9308020040AB**
3 x 6	**9308030060AB**
4 x 8	**9308040080AB**
6 x 10	**9308060100AB**





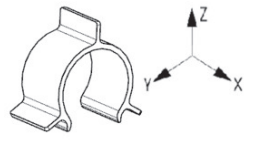


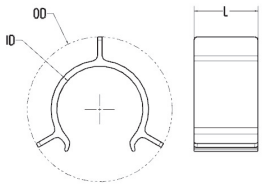
Pipe Centralizer - Sch40 Containment

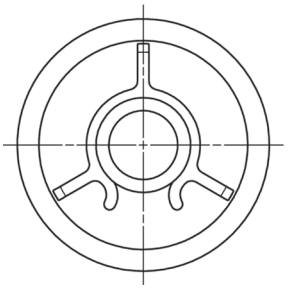
Model:

- For IPS size PVC or CPVC only.
- Fits carrier (inner) Sch40 or Sch80 pipe, and containment (outer) Sch40 pipe only.
- Only for use with GF Double-See pipe and fitting system. Consult GF Piping Systems for installation and spacing recommendations.
- Fx, Fy, and Fz are rated design loads in lb-f (pounds-force) and N (Newtons) for respective x, y, and z directions

Inch (inch)	Code	Pack Qty	Pcs / 20 ft	ID (inch)	OD (inch)	L (inch)	Fy, Fz (lbs/N)	F-z (lbs/N)
1/2 x 2	**898 005 020**	10	9	0.82	1.97	1.57	67 / 300	73.7 / 330
3/4 x 3	**898 007 030**	10	9	1.03	2.96	1.57	67 / 300	80.5 / 360
1 x 3	**898 010 030**	10	8	1.29	2.96	1.57	67 / 300	80.5 / 360
1-1/2 x 4	**898 015 040**	10	7	1.88	3.88	1.57	67 / 300	114 / 510
2 x 4	**898 020 040**	10	7	2.35	3.88	1.57	67 / 300	114 / 510
3 x 6	**898 030 060**	5	7	3.38	5.89	2.50	67 / 300	251 / 1120
4 x 8	**898 040 080**	5	6	4.48	7.86	3.00	67 / 300	277 / 1235
6 x 10	**898 060 100**	5	5	6.60	9.87	3.00	67 / 300	584 / 2600
8 x 12	**898 080 120**	5	5	8.60	11.75	3.00	67 / 300	629 / 2800







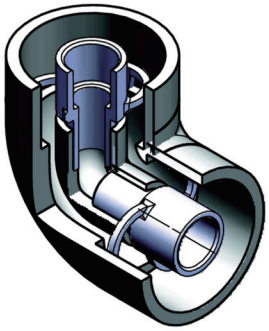
Pipe Centralizer - Sch80 Containment

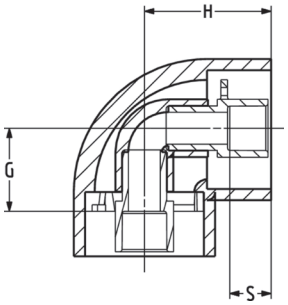
Model:

- For IPS size PVC or CPVC only.
- Fits carrier (inner) Sch40 or Sch80 pipe, and containment (outer) Sch80 pipe only
- Only for use with GF Double-See pipe and fitting system. Consult GF Piping Systems for installation and spacing recommendations.
- Fx, Fy, and Fz are rated design loads in lb-f (pounds-force) and N (Newtons) for respective x, y, and z directions

Inch (inch)	Code	Pack Qty	Pcs / 20 ft	ID (inch)	OD (inch)	L (inch)	Fy, Fz (lbs/N)	F-z (lbs/N)
1/2 x 2	**899 005 020**	10	9	0.82	1.91	1.57	67 / 300	73.7 / 330
3/4 x 3	**899 007 030**	10	9	1.03	2.87	1.57	67 / 300	80.5 / 360
1 x 3	**899 010 030**	10	8	1.29	2.87	1.57	67 / 300	80.5 / 360
1-1/2 x 4	**899 015 040**	10	7	1.88	3.80	1.57	67 / 300	114 / 510
2 x 4	**899 020 040**	10	7	2.35	3.80	1.57	67 / 300	114 / 510
3 x 6	**899 030 060**	5	7	3.38	5.78	2.50	67 / 300	251 / 1120
4 x 8	**899 040 080**	5	6	4.48	7.68	3.00	67 / 300	277 / 1235
6 x 10	**899 060 100**	5	5	6.60	9.62	3.00	67 / 300	584 / 2600
8 x 12	**899 080 120**	5	5	8.60	11.44	3.00	67 / 300	629 / 2800

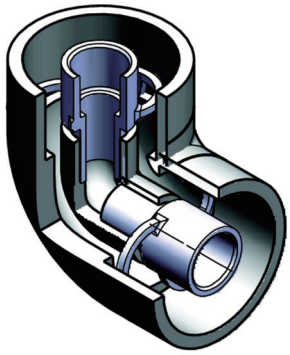
Elbows

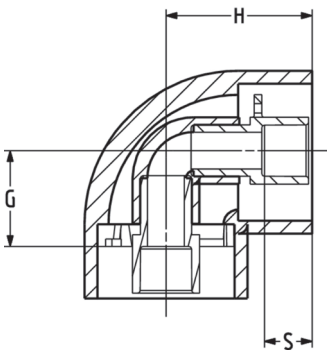




90° Elbow, PVC 80 x CPVC 80

Inch (inch)	Code	G (inch)	H (inch)	S (inch)
1/2 x 2	**8906005020**	1.90	2.78	0.88
3/4 x 3	**8906007030**	2.75	3.75	1.00
1 x 3	**8906010030**	2.56	3.75	1.19
1 1/2 x 4	**8906015040**	3.20	4.60	1.40
2 x 4	**8906020040**	3.10	4.60	1.50
3 x 6	**8906030060**	4.80	6.70	1.90
4 x 8	**8906040080**	6.47	8.67	2.20
6 x 10	**8906060100**	7.77	10.77	3.00
8 x 12	**8906080120**	9.46	13.09	4.00

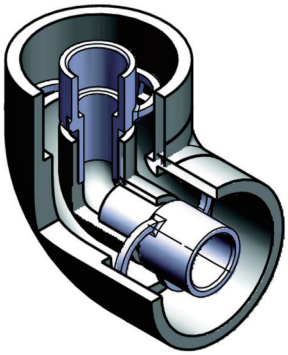


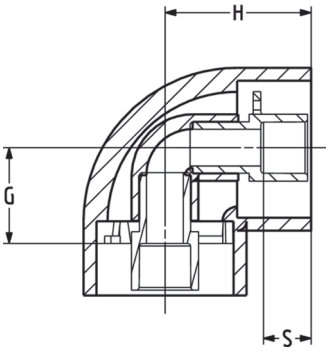


90° Elbow, PVC 80 x PVC 80

Inch (inch)	Code	G (inch)	H (inch)	S (inch)
1/2 x 2	**8806005020**	1.90	2.78	0.88
3/4 x 3	**8806007030**	2.75	3.75	1.00
1 x 3	**8806010030**	2.56	3.75	1.19
1-1/2 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
8 x 12	**8806080120**	9.46	13.09	3.50

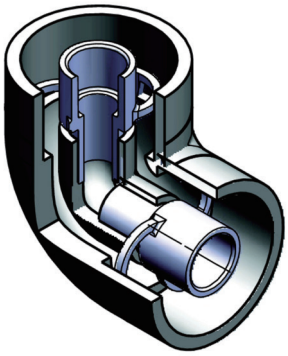
90° Elbow, CPVC 80 x PVC 80

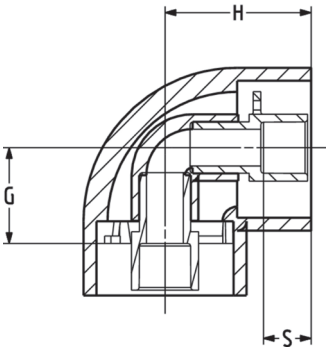




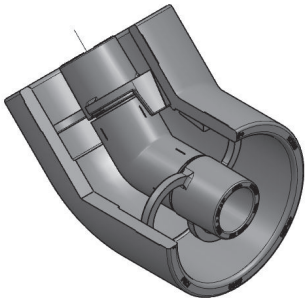
Inch (inch)	Code	G (inch)	H (inch)	S (inch)
1/2 x 2	**9806005020**	1.90	2.78	0.88
3/4 x 3	**9806007030**	2.75	3.75	1.00
1 x 3	**9806010030**	2.56	3.75	1.19
1-1/2 x 4	**9806015040**	3.20	4.60	1.40
2 x 4	**9806020040**	3.10	4.60	1.50
3 x 6	**9806030060**	4.80	6.70	1.90
4 x 8	**9806040080**	6.47	8.67	2.20
6 x 10	**9806060100**	7.77	10.77	3.00
8 x 12	**9806080120**	9.46	13.09	4.00

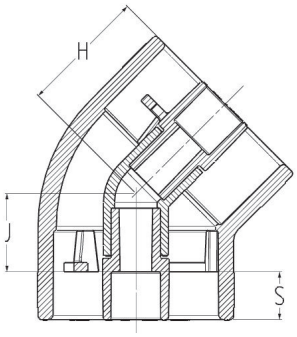
90° Elbow, CPVC 80 x CPVC 80





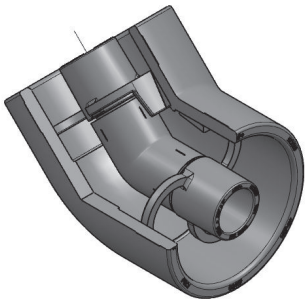
Inch (inch)	Code	G (inch)	H (inch)	S (inch)
1/2 x 2	**9906005020**	1.90	2.78	0.88
3/4 x 3	**9906007030**	2.75	3.75	1.00
1 x 3	**9906010030**	2.56	3.75	1.19
1-1/2 x 4	**9906015040**	3.19	4.59	1.40
2 x 4	**9906020040**	3.09	4.59	1.50
3 x 6	**9906030060**	4.80	6.70	1.90
4 x 8	**9906040080**	6.32	8.52	2.20
6 x 10	**9906060100**	7.70	10.70	3.00
8 x 12	**9906080120**	9.46	13.09	4.00

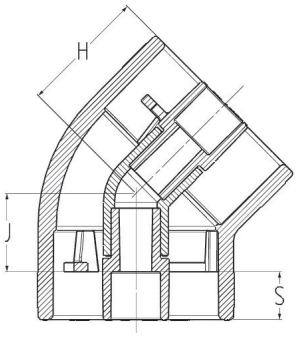




45° Elbow, PVC 80 x CPVC 80

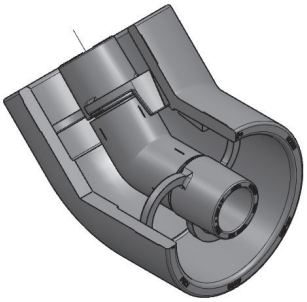
Inch (inch)	Code	J (inch)	H (inch)	S (inch)
1/2 x 2	**8917005020**	1.29	2.16	0.87
3/4 x 3	**8917007030**	1.66	2.66	1.00
1 x 3	**8917010030**	1.52	2.66	1.14
1 1/2 x 4	**8917015040**	1.91	3.24	1.33
2 x 4	**8917020040**	1.74	3.24	1.50
3 x 6	**8917030060**	3.01	4.81	1.80
4 x 8	**8917040080**	3.95	6.15	2.20
6 x 10	**8917060100**	4.46	7.46	3.00
8 x 12	**8917080120**	5.04	9.04	4.00

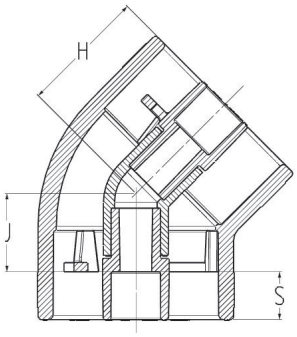




45° Elbow, PVC 80 x PVC 80

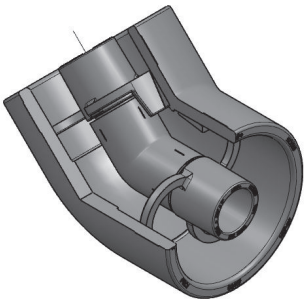
Inch (inch)	Code	J (inch)	H (inch)	S (inch)
1/2 x 2	**8817005020**	1.29	2.16	0.87
3/4 x 3	**8817007030**	1.66	2.66	1.00
1 x 3	**8817010030**	1.52	2.66	1.14
1-1/2 x 4	**8817015040**	1.91	3.24	1.33
2 x 4	**8817020040**	1.74	3.24	1.50
3 x 6	**8817030060**	3.01	4.81	1.80
4 x 8	**8817040080**	3.95	6.15	2.20
6 x 10	**8817060100**	4.46	7.46	3.00
8 x 12	**8817080120**	5.04	9.04	4.00

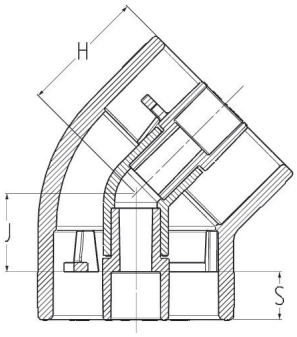




45° Elbow, CPVC 80 x PVC 80

Inch (inch)	Code	J (inch)	H (inch)	S (inch)
1/2 x 2	**9817005020**	1.29	2.16	0.87
3/4 x 3	**9817007030**	1.66	2.66	1.00
1 x 3	**9817010030**	1.52	2.66	1.14
1-1/2 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**	3.95	6.15	2.20
6 x 10	**9817060100**	4.46	7.46	3.00
8 x 12	**9817080120**	5.04	9.04	4.00

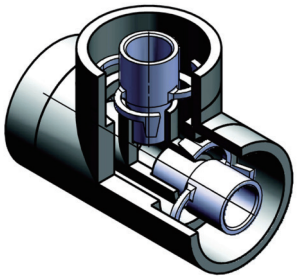


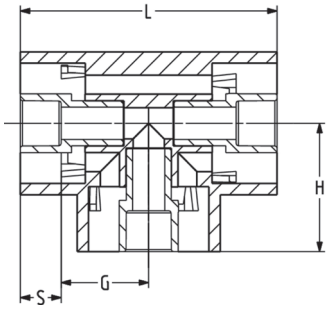


45° Elbow, CPVC 80 x CPVC 80

Inch (inch)	Code	J (inch)	H (inch)	S (inch)
1/2 x 2	**9917005020**	1.29	2.16	0.87
3/4 x 3	**9917007030**	1.66	2.66	1.00
1 x 3	**9917010030**	1.52	2.66	1.14
1-1/2 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**	3.95	6.15	2.20
6 x 10	**9917060100**	4.46	7.46	3.00
8 x 12	**9917080120**	5.04	9.04	4.00

Tees



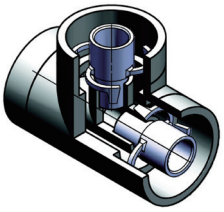


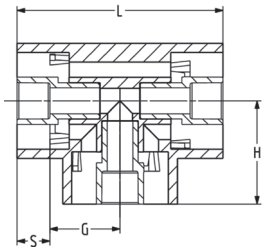
Tee, PVC 80 x PVC 80

Model:

- 8 x 12 size has fiberglass wrapping reinforcement on the containment fitting

Inch (inch)	Code	L (inch)	H (inch)	G (inch)	S (inch)
1/2 x 2	**8801005020**	5.56	2.78	1.90	0.88
3/4 x 3	**8801007030**	7.50	3.75	2.75	1.00
1 x 3	**8801010030**	7.50	3.75	2.56	1.19
1-1/2 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
8 x 12	**8801080120**	44.22	22.07	18.11	4.00

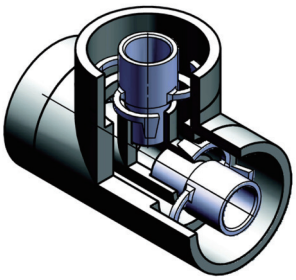


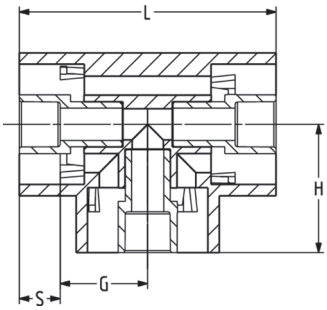


Tee, PVC 80 x CPVC 80

Inch (inch)	Code	L (inch)	H (inch)	G (inch)	S (inch)
1/2 x 2	**8901005020**	5.56	2.78	1.90	0.88
3/4 x 3	**8901007030**	7.50	3.75	2.75	1.00
1 x 3	**8901010030**	7.50	3.75	2.56	1.19
1 1/2 x 4	**8901015040**	9.26	4.63	3.23	1.40
2 x 4	**8901020040**	9.26	4.63	3.13	1.50
3 x 6	**8901030060**	13.26	6.63	4.73	1.90
4 x 8	**8901040080**	17.40	8.70	6.50	2.20
6 x 10	**8901060100**	21.70	10.85	7.85	3.00
8 x 12	**8901080120**	44.22	22.07	18.11	4.00

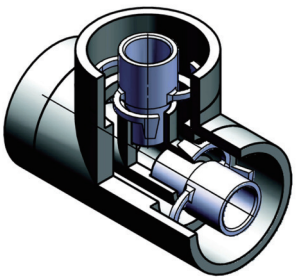
Tee, CPVC 80 x PVC 80

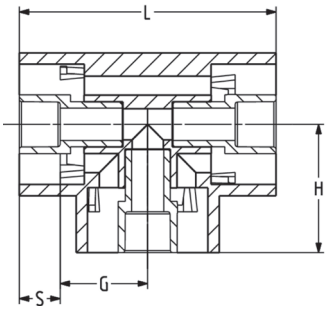




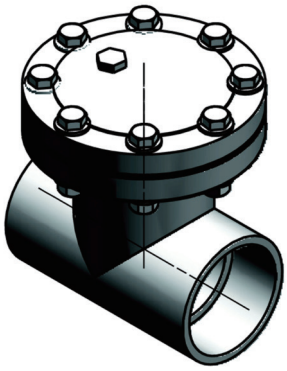
Inch (inch)	Code	L (inch)	H (inch)	G (inch)	S (inch)
1/2 x 2	**9801005020**	5.56	2.78	1.90	0.88
3/4 x 3	**9801007030**	7.50	3.75	2.75	1.00
1 x 3	**9801010030**	7.50	3.75	2.56	1.19
1-1/2 x 4	**9801015040**	9.26	4.63	3.23	1.40
2 x 4	**9801020040**	9.26	4.63	3.13	1.50
3 x 6	**9801030060**	13.26	6.63	4.73	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
8 x 12	**9801080120**	44.22	22.07	18.11	4.00

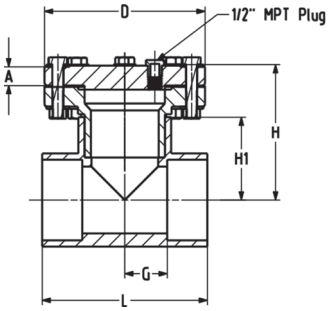
Tee, CPVC 80 x CPVC 80





Inch (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
8 x 12	**9901080120**	44.22	22.07	18.11	4.00



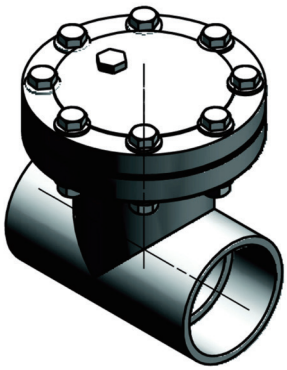


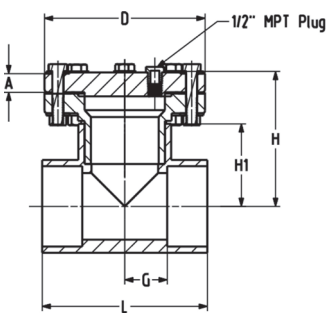
Access Tee, PVC

Model:

- Includes 316 SS bolt kit hardware, and EPDM full face gasket on blind flange

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
12	**8801853120**						



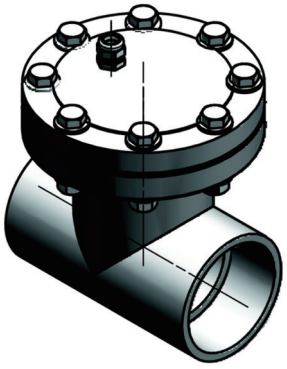


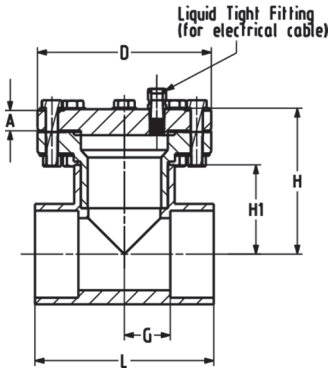
Access Tee, CPVC

Model:

- Includes 316 SS bolt kit hardware, and EPDM full face gasket on blind flange

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
12	**9801853120**						



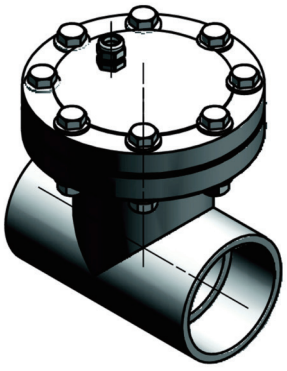


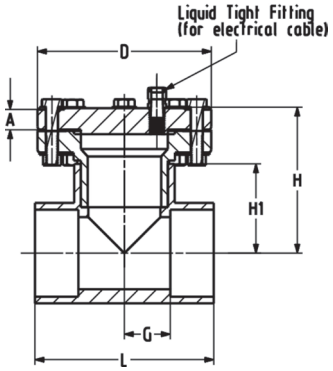
Access Tee (Liquid Tight), PVC

Model:

- Includes 316 SS bolt kit hardware, and EPDM full face gasket on blind flange

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
12	**8801853120LT**						





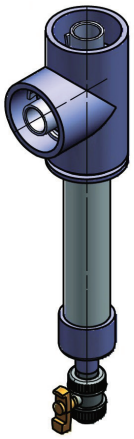
Access Tee (Liquid Tight), CPVC

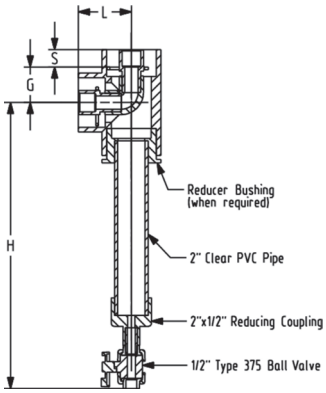
Model:

- Includes 316 SS bolt kit hardware, and EPDM full face gasket on blind flange

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
12	**9801853120LT**						

Leak detection fittings

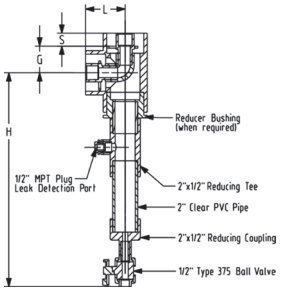




90° Low Point Drain/High Point Vent Tee PVC 80 x CPVC 80

Visual Leak Detection

Inch (inch)	Code	G (inch)	H (inch)	S (inch)
1/2 x 2	**8902005020**	1.90	2.78	0.88
3/4 x 3	**8902007030**	2.75	3.75	1.00
1 x 3	**8902010030**	2.56	3.75	1.19
1-1/2 x 4	**8902015040**	3.20	4.60	1.40
2 x 4	**8902020040**	3.10	4.60	1.50
3 x 6	**8902030060**	4.80	6.70	1.90
4 x 8	**8902040080**	6.47	8.67	2.20
6 x 10	**8902060100**	7.77	10.77	3.00

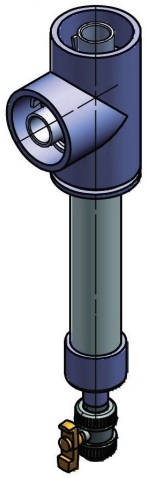


90° Low Point Drain/High Point Vent Tee PVC 80 x CPVC 80

Visual Leak Detection and Leak Detection Port

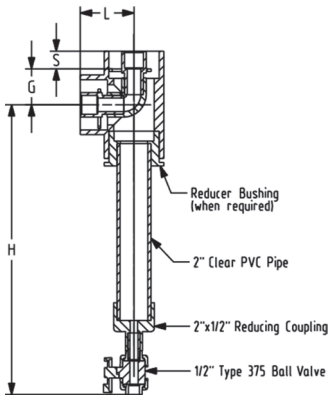
Inch (inch)	Code	G (inch)	H (inch)	S (inch)
1/2 x 2	**8903005020**	1.90	2.78	0.88
3/4 x 3	**8903007030**	2.75	3.75	1.00
1 x 3	**8903010030**	2.56	3.75	1.19
1-1/2 x 4	**8903015040**	3.20	4.60	1.40
2 x 4	**8903020040**	3.10	4.60	1.50
4 x 8	**8903040080**	6.47	8.67	2.20
4 x 8	**8903040080**	6.47	8.67	2.20
6 x 10	**8903060100**	7.77	10.77	3.00

90° Low Point Drain/High Point Vent Tee PVC 80 x PVC 80

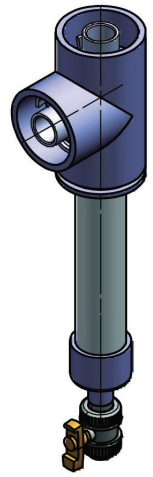


Visual Leak Detection

Inch (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
8 x 12	**8802080120**	9.07	13.09	4.00	36.14

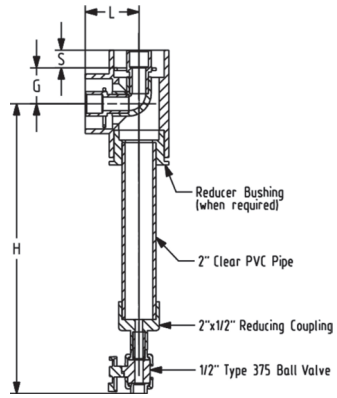


90° Low Point Drain/High Point Vent Tee CPVC 80 x PVC 80

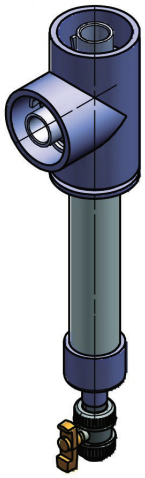


Visual Leak Detection

Inch (inch)	Code	G (inch)	L (inch)	S (inch)	H (inch)
1/2	**9802005020**	1.90	2.78	0.88	19.66
3/4	**9802007030**	2.75	3.75	1.00	20.28
1 x	**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	**9802020040**	3.13	4.63	1.50	20.76
3 x	**9802030060**	4.73	6.63	1.90	24.09
4 x	**9802040080**	6.50	8.70	2.20	24.47
6 x 10	**9802060100**	7.85	10.85	3.00	27.75

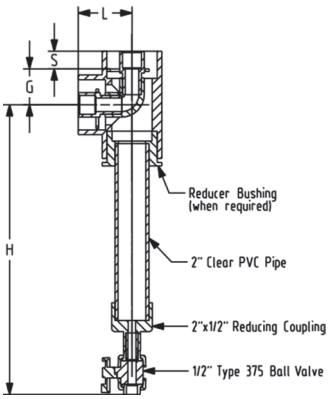


90° Low Point Drain/High Point Vent Tee CPVC 80 x CPVC 80

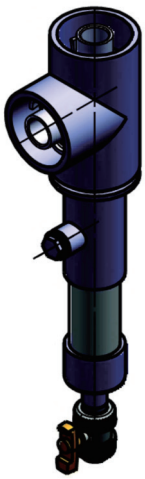


Visual Leak Detection

Inch (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

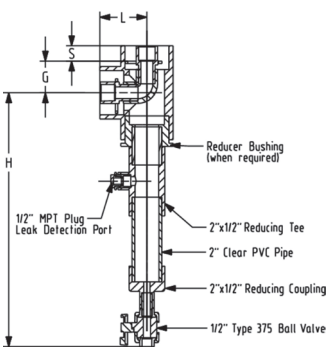


90° Low Point Drain/High Point Vent Tee PVC 80 x PVC 80

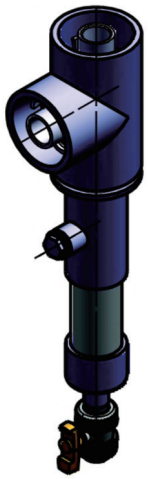


Visual Leak Detection and Leak Detection Port

Inch (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

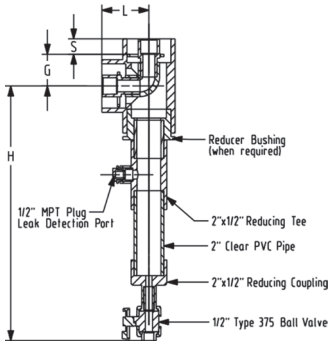


90° Low Point Drain/High Point Vent Tee CPVC 80 x PVC 80

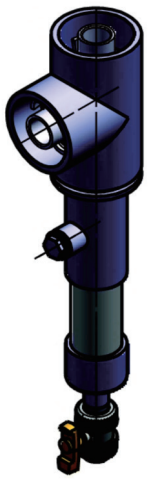


Visual Leak Detection and Leak Detection Port

Inch (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

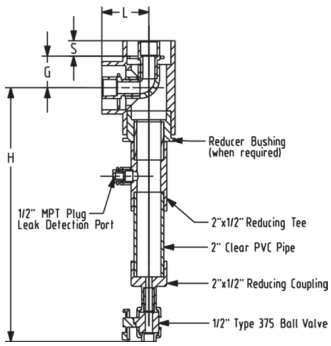


90° Low Point Drain/High Point Vent Tee CPVC 80 x CPVC 80



Visual Leak Detection and Leak Detection Port

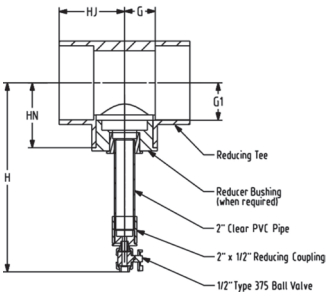
Inch (inch)	Code	G (inch)	L (inch)	S (inch)	H (inch)
1/2 x 2	**9903005020**	1.90	2.78	0.88	21.44
3/4 x 3	**9903007030**	2.75	3.75	1.00	22.02
1 x 3	**9903010030**	2.56	3.75	1.19	22.02
1-1/2 x 4	**9903015040**	3.23	4.63	1.40	22.50
2 x 4	**9903020040**	3.13	4.63	1.50	22.50
3 x 6	**9903030060**	4.63	6.53	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

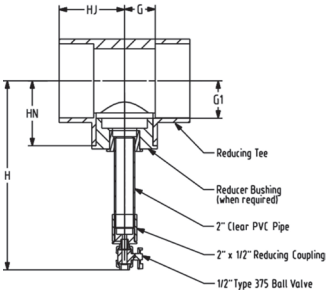
Secondary (inch)	Reducing Tee (inch)	Code	H (inch)	HJ (inch)	HN (inch)	G (inch)	G1 (inch)
2	2 x 2	**8801375020**	17.28	2.78	2.78	1.29	1.29
3	3 x 2	**8801375030**	17.90	3.21	3.40	1.31	1.87
4	4 x 2	**8801375040**	18.38	3.52	3.88	1.26	2.37
6	6 x 2	**8801375060**	21.71	6.58	7.21	3.50	5.65
8	8 x 2	**8801375080**	22.09	7.63	7.59	3.59	3.56
10	10 x 2	**8801375100**	23.63	9.69	9.13	4.69	5.40
12	12 x 2	**8801375120**	36.14	12.96	12.96	6.94	6.40



Low Point Drain/High Point Vent Tee, CPVC

Visual Leak Detection

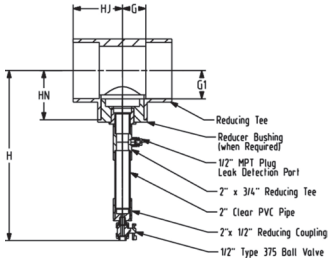
Secondary (inch)	Reducing Tee (inch)	Code	H (inch)	HJ (inch)	HN (inch)	G (inch)	G1 (inch)
2	2 x 2	**9801375020**	17.32	2.82	2.82	1.32	1.32
3	3 x 2	**9801375030**	17.90	3.21	3.40	1.31	1.87
4	4 x 2	**9801375040**	18.38	3.52	3.88	1.26	2.37
6	6 x 2	**9801375060**	21.71	6.58	7.21	3.56	5.65
8	8 x 2	**9801375080**	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
12	12 x 2	**9801375120**	36.14	12.96	12.96	6.94	6.40



Low Point Drain/High Point Vent Tee, PVC

Visual Leak Detection and Leak Detection Port

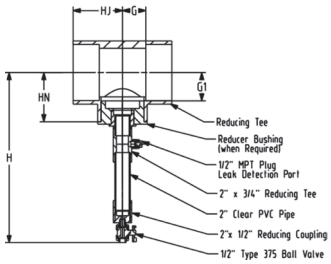
Secondary (inch)	Reducing Tee (inch)	Code	H (inch)	HJ (inch)	HN (inch)	G (inch)	G1 (inch)
2	2 x 2	**8801375020P**	19.66	2.78	2.78	1.29	1.29
3	3 x 2	**8801375030P**	20.28	3.21	3.40	1.31	1.87
4	4 x 2	**8801375040P**	20.76	3.52	3.88	1.26	2.37
6	6 x 2	**8801375060P**	24.09	6.58	7.21	3.56	5.65
8	8 x 2	**8801375080P**	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
12	12 x 2	**8801375120P**					

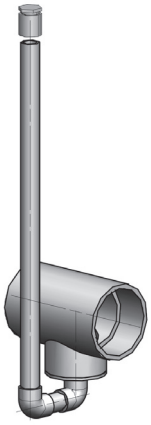


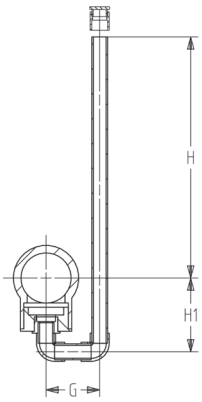
Low Point Drain/High Point Vent Tee, CPVC

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
12	12 x 2	**9801375120P**					



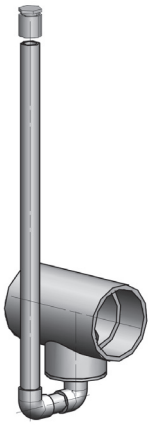


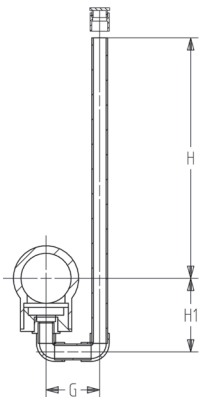


Low Point Leak Detection Sump PVC

Riser Pipe not included

Size (inch)	Reducing Tee (inch)	Code	H (inch)	H1 (inch)	G (inch)
2	2 x 2	**8804806020**	36	6.56	6.56
3	3 x 2	**8804806030**	36	7.15	6.56
4	4 x 2	**8804806040**	36	7.66	6.56
6	6 x 2	**8804806060**	36	10.99	8.00
8	8 x 2	**8804806080**	36	12.33	8.00
10	10 x 2	**8804806100**	36	16.16	10.00



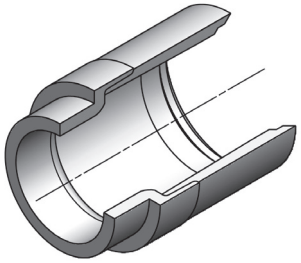


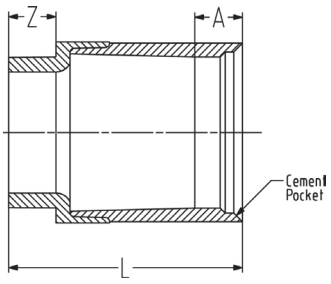
Low Point leak Detection Sump CPVC

Riser Pipe not included

Size (inch)	Reducing Tee (inch)	Code	H (inch)	H1 (inch)	G (inch)
2	2 x 2	**9804806020**	36	6.56	6.56
3	3 x 2	**9804806030**	36	7.15	6.56
4	4 x 2	**9804806040**	36	7.66	6.56
6	6 x 2	**9804806060**	36	10.99	8.00
8	8 x 2	**9804806080**	36	12.33	8.00
10	10 x 2	**9804806100**	36	16.16	10.00

Closure Couplings

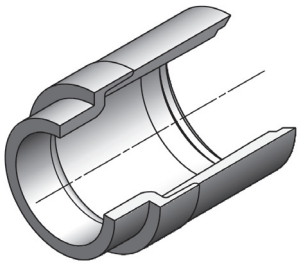


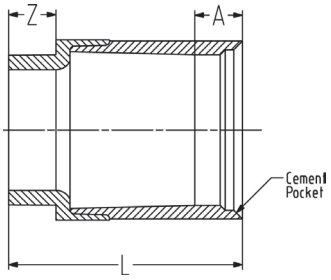


Closure Coupling, PVC

For use with compliance to ASME B31.3
Standard couplings are available in the Vinyls Price List
Two component adhesive/sealer required located in the accessories section of Double-See

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	1.20	1.75
10	**831100**	12.95	2.00	2.50
12	**831120**	15.12	1.22	3.25



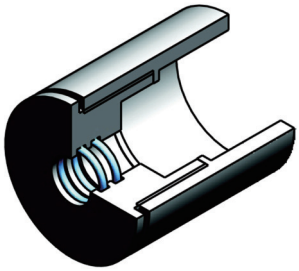


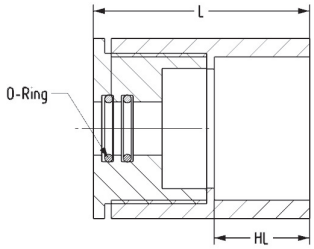
Closure Coupling, CPVC

For use with compliance to ASME B31.3
Standard couplings are available in the Vinyls Price List
Two component adhesive/sealer required located in the accessories section of Double-See

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**	12.95	1.20	2.50
12	**931120**	15.12	1.22	3.25

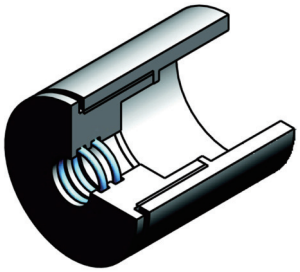
Terminations

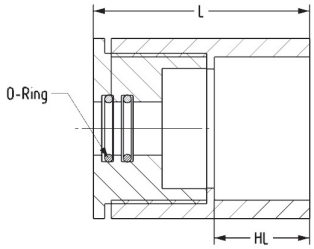




Termination, PVC 80

Size (inch)	FKM Code	EPDM Code	L (inch)	HL (inch)	Design
½ x 2	**825005020F**	**825005020E**	3.42	1.51	STD
¾ x 3	**825007030F**	**825007030E**	3.89	1.95	EXT
1 x 3	**825010030F**	**825010030E**	4.55	1.90	STD
1 ½ x 4	**825015040F**	**825015040E**	4.92	2.25	EXT
2 x 4	**825020040F**	**825020040E**	5.24	2.28	STD
3 x 6	**825030060F**	**825030060E**	10.70	4.51	EXT
4 x 8	**825040080F**	**825040080E**	9.76	4.09	EXT
6 x 10	**825060100F**	**825060100E**	11.75	5.02	STD
8 x 12	**825080120F**	**825080120E**	13.54	6.03	STD

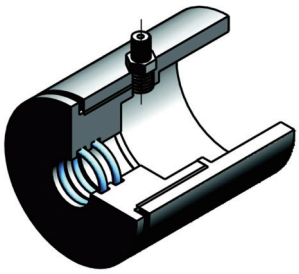


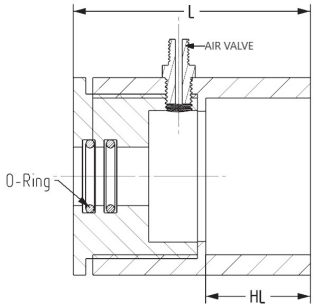


Termination, CPVC 80

Size (inch)	FKM Code	EPDM Code	L (inch)	HL (inch)	Design
½ x 2	**925005020F**	**925005020E**	3.42	1.51	STD
¾ x 3	**925007030F**	**925007030E**	3.89	1.95	EXT
1 x 3	**925010030F**	**925010030E**	4.55	1.90	STD
1 ½ x 4	**925015040F**	**925015040E**	4.92	2.25	EXT
2 x 4	**925020040F**	**925020040E**	5.24	2.28	STD
3 x 6	**925030060F**	**925030060E**	10.70	4.51	EXT
4 x 8	**925040080F**	**925040080E**	9.76	4.09	EXT
6 x 10	**925060100F**	**925060100E**	11.75	5.02	STD
8 x 12	**925080120F**	**925080120E**	13.54	6.03	STD

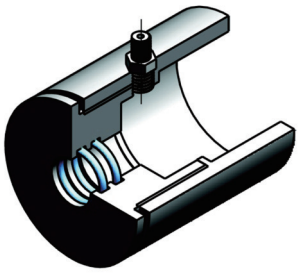
Test Termination, PVC 80

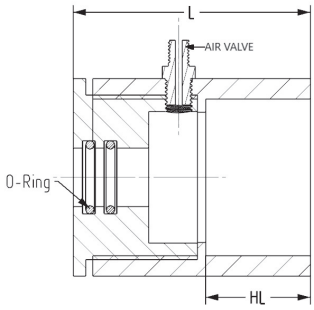




Size (inch)	FKM Code	EPDM Code	L (inch)	HL (inch)	Design
½ x 2	**825005020FT**	**825005020ET**	3.42	1.51	STD
¾ x 3	**825007030FT**	**825007030ET**	3.89	1.95	EXT
1 x 3	**825010030FT**	**825010030ET**	4.55	1.90	STD
1 ½ x 4	**825015040FT**	**825015040ET**	4.92	2.25	EXT
2 x 4	**825020040FT**	**825020040ET**	5.24	2.28	STD
3 x 6	**825030060FT**	**825030060ET**	10.70	4.51	EXT
4 x 8	**825040080FT**	**825040080ET**	9.76	4.09	EXT
6 x 10	**825060100FT**	**825060100ET**	11.75	5.02	STD
8 x 12	**825080120FT**	**825080120ET**	13.54	6.03	STD

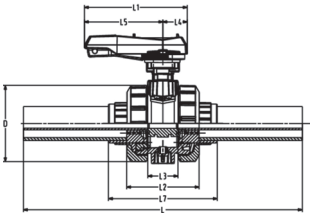
Test Termination, CPVC 80

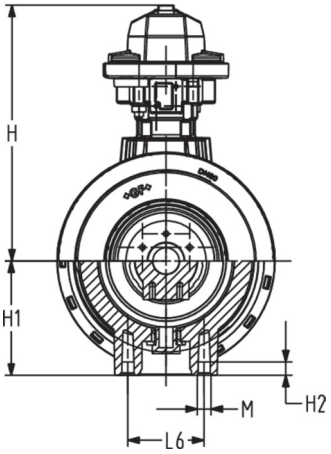




Size (inch)	FKM Code	EPDM Code	L (inch)	HL (inch)	Design
½ x 2	**925005020FT**	**925005020ET**	3.42	1.51	STD
¾ x 3	**925007030FT**	**925007030ET**	3.89	1.95	EXT
1 x 3	**925010030FT**	**925010030ET**	4.55	1.90	STD
1 ½ x 4	**925015040FT**	**925015040ET**	4.92	2.25	EXT
2 x 4	**925020040FT**	**925020040ET**	5.24	2.28	STD
3 x 6	**925030060FT**	**925030060ET**	10.70	4.51	EXT
4 x 8	**925040080FT**	**925040080ET**	9.76	4.09	EXT
6 x 10	**925060100FT**	**925060100ET**	11.75	5.02	STD
8 x 12	**925080120FT**	**925080120ET**	13.54	6.03	STD

Valves



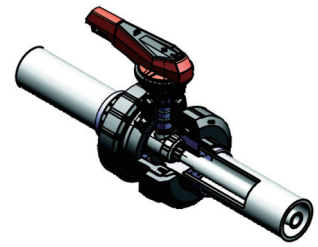


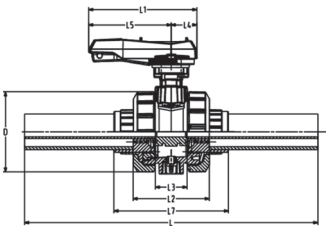
Type 546 Manual Ball Valve, Double Contained PVC x PVC Pressure Rated

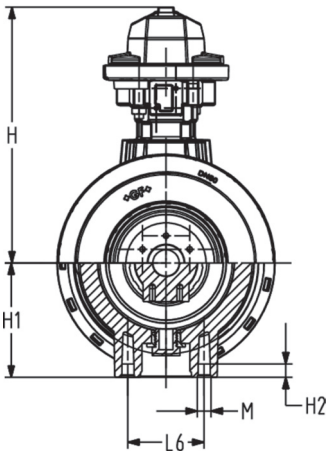
Pressure Rated

Inch (inch)	EPDM Code	FKM 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**

Inch (inch)	D (inch)	L (inch)	L3 (inch)	L2 (inch)	L1 (inch)	L4 (inch)	L5 (inch)	L6 (inch)	H1 (inch)	M (inch)	H2 (inch)	H (inch)
1/2 x 2	4.88	8.13	2.40	5.13	5.98	2.60	3.43	1.77	2.52	8	0.59	5.67
3/4 x 3	7.87	11.22	2.76	7.47	10.59	2.52	8.11	2.76	4.13	8	0.59	9.25
1 x 3	7.87	11.22	2.99	7.47	10.59	2.52	8.11	2.76	4.13	8	0.59	9.25
1-1/2 x 4	9.37	14.20	3.70	9.20	12.60	2.52	10.05	4.72	4.84	12	0.87	9.63
2 x 4	9.37	14.20	4.21	9.20	12.60	2.52	10.05	4.72	4.84	12	0.87	9.63





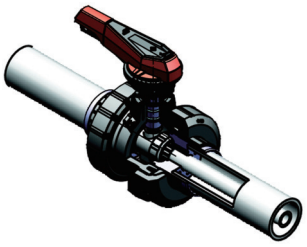


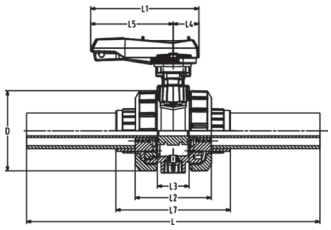
Type 546 Manual Ball Valve, Double Contained CPVC x PVC

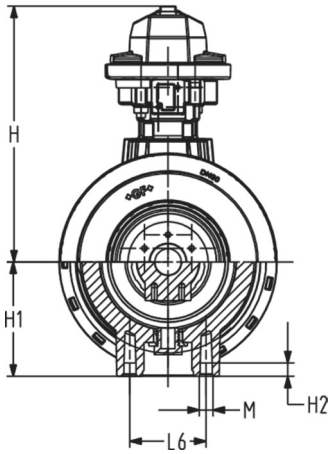
Pressure Rated

Inch (inch)	EPDM Code	FKM Code
1/2 x 2	**150 546 905**	**150 546 705**
3/4 x 3	**150 546 907**	**150 546 707**
1 x 3	**150 546 910**	**150 546 710**
1-1/2 x 4	**150 546 915**	**150 546 715**
2 x 4	**150 546 920**	**150 546 720**

Inch (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)
1/2 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
3/4 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
1-1/2 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







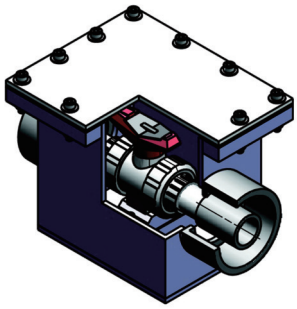
Type 546 Manual Ball Valve, Double Contained CPVC x CPVC

Pressure Rated

Inch (inch)	EPDM Code	FKM Code
1/2 x 2	**150 546 991**	**150 546 791**
3/4 x 3	**150 546 992**	**150 546 792**
1 x 3	**150 546 993**	**150 546 793**
1-1/2 x 4	**150 546 994**	**150 546 794**
2 x 4	**150 546 995**	**150 546 795**

Inch (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)
1/2 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
3/4 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
1-1/2 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

Containment valve boxes

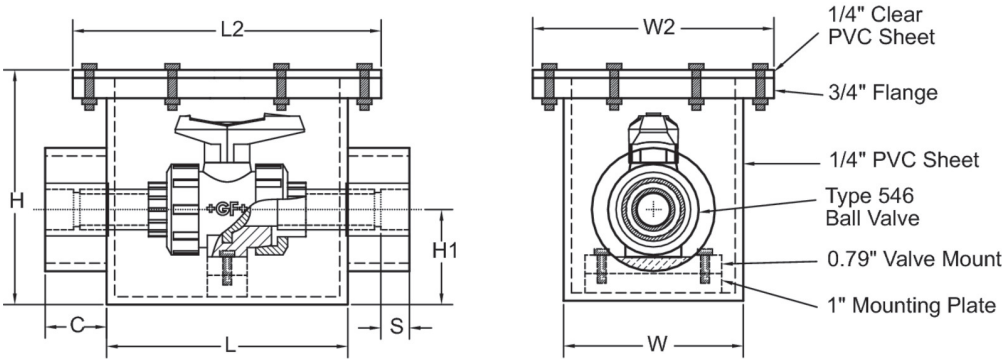


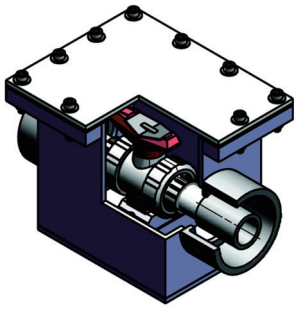
Manual Valve Box, PVC x PVC

Not Pressure Rated

Inch (inch)	EPDM Code	FKM Code
1/2 x 2	8546005020EVB	8546005020FVB
3/4 x 3	8546007030EVB	8546007030FVB
1 x 3	8546010030EVB	8546010030FVB
1-1/2 x 4	8546015040EVB	8546015040FVB
2 x 4	8546020040EVB	8546020040FVB
3 x 6	8546030060EVB	8546030060FVB
4 x 8	8546040080EVB	8546040080FVB

Inch (inch)	Weight (lb)	W (inch)	L (inch)	H (inch)	H1 (inch)	C (inch)	S (inch)	W2 (inch)	L2 (inch)
1/2 x 2	7.20	6.00	8.00	8.00	3.10	1.63	0.88	8.00	10.00
3/4 x 3	7.45	6.00	8.00	8.00	3.22	2.15	1.00	8.00	10.00
1 x 3	8.20	10.00	8.00	8.00	3.46	2.15	1.13	8.00	10.00
1-1/2 x 4	12.09	10.00	10.00	11.00	4.05	2.56	1.38	12.00	12.00
2 x 4	28.34	10.00	10.00	11.00	4.56	2.56	1.50	12.00	12.00
3 x 6	53.84	18.00	18.00	15.00	6.17	3.37	1.88	20.00	20.00
4 x 8	83.02	22.00	22.00	17.00	6.88	4.37	2.25	24.00	24.00





Manual Valve Box, CPVC x PVC

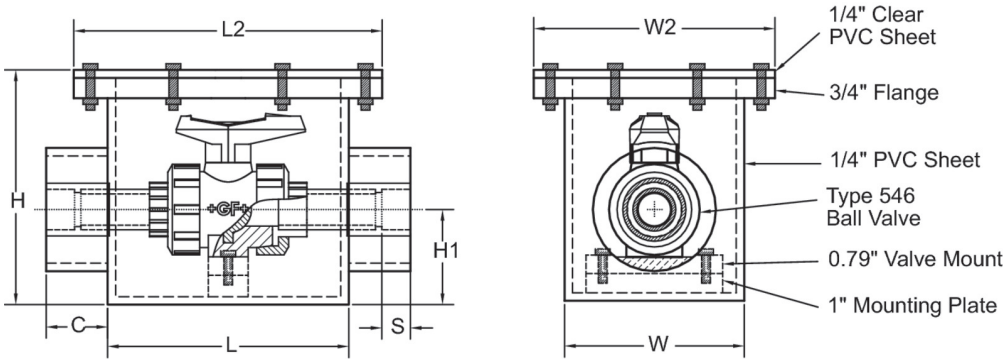
Not Pressure Rated

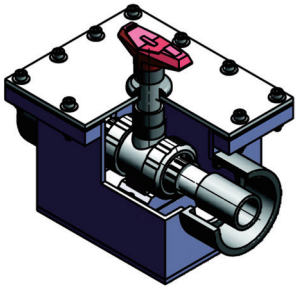
Inch (inch)	EPDM Code	FKM Code
1/2 x 2	9546005020EVB	9546005020FVB
3/4 x 3	9546007030EVB	9546007030FVB
1 x 3	9546010030EVB	9546010030FVB
1-1/2 x 4	9546015040EVB	9546015040FVB
2 x 4	9546020040EVB	9546020040FVB
3 x 6	9546030060EVB	9546030060FVB
4 x 8	9546040080EVB	9546040080FVB

Inch (inch)	Weight (lb)	W (inch)	L (inch)	H (inch)	H1 (inch)	C (inch)	S (inch)	W2 (inch)	L2 (inch)
1/2 x 2	7.22	6.00	8.00	3.10	3.10	1.63	0.88	8.00	10
3/4 x 3	7.47	6.00	8.00	3.22	3.22	2.15	1.00	8.00	10
1 x 3	8.27	6.00	8.00	3.46	3.46	2.15	1.13	8.00	10

table continued on the next page

Inch (inch)	Weight (lb)	W (inch)	L (inch)	H (inch)	H1 (inch)	C (inch)	S (inch)	W2 (inch)	L2 (inch)
1-1/2 x 4	12.32	10.00	10.00	4.05	4.05	2.56	1.38	12.00	12
2 x 4	28.82	10.00	10.00	4.56	4.56	2.56	1.50	12.00	12
3 x 6	55.38	18.00	18.00	6.17	6.17	3.37	1.88	20.00	20
4 x 8	85.88	22.00	22.00	6.88	6.88	4.37	2.25	24.00	24



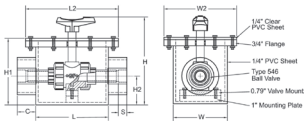


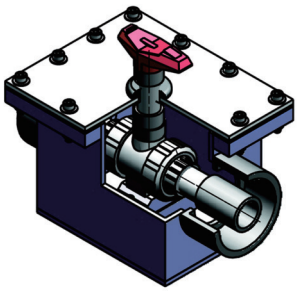
Manual Valve Box, External Handle PVC x PVC

Not Pressure Rated

Inch (inch)	EPDM Code	FKM Code
1/2 x 2	**8546005020EEH**	**8546005020FEH**
3/4 x 3	**8546007030EEH**	**8546007030FEH**
1 x 3	**8546010030EEH**	**8546010030FEH**
1-1/2 x 4	**8546015040EEH**	**8546015040FEH**
2 x 4	**8546020040EEH**	**8546020040FEH**

Inch (inch)	Weight (lb)	W (inch)	L (inch)	H (inch)	H1 (inch)	H2 (inch)	C (inch)	S (inch)	W2 (inch)	L2 (inch)
1/2 x 2	7.50	6.00	8.00	9.95	7.13	3.10	1.63	0.88	8.00	10.00
3/4 x 3	7.75	6.00	8.00	9.95	7.13	3.22	2.15	1.00	8.00	10.00
1 x 3	8.50	6.00	8.00	9.92	7.13	3.46	2.15	1.13	8.00	10.00
1-1/2 x 4	12.49	8.00	10.00	13.40	10.13	4.05	2.52	1.38	10.00	12.00
2 x 4	28.74	8.00	10.00	13.00	10.00	4.56	2.52	1.50	10.00	12.00





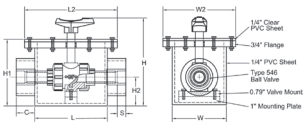
Manual Valve Box, External Handle CPVC x PVC

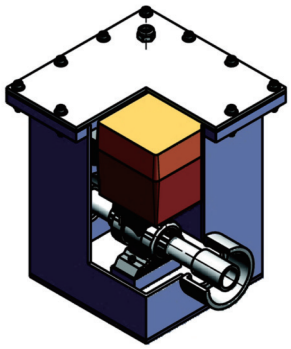
Not Pressure Rated

Inch (inch)	FKM Code
1/2 x 2	**8546005020FEH**
3/4 x 3	**8546007030FEH**
1 x 3	**8546010030FEH**
1-1/2 x 4	**8546015040FEH**
2 x 4	**8546020040FEH**

table continued on the next page

Inch (inch)	EPDM Part No.	Weight (lb)	W (inch)	L (inch)	H (inch)	H1 (inch)	H2 (inch)	C (inch)	S (inch)	W2 (inch)	L2 (inch)
1/2 x 2	9546005020EEH	7.50	6.00	8.00	9.95	7.13	3.10	1.63	0.88	8.00	10.00
3/4 x 3	9546007030EEH	7.75	6.00	8.00	9.95	7.13	3.22	2.15	1.00	8.00	10.00
1 x 3	9546010030EEH	8.50	6.00	8.00	9.92	7.13	3.46	2.15	1.13	8.00	10.00
1-1/2 x 4	9546015040EEH	12.49	8.00	10.00	13.40	10.13	4.05	2.52	1.38	10.00	12.00
2 x 4	9546020040EEH	28.74	8.00	10.00	13.00	10.00	4.56	2.52	1.50	10.00	12.00

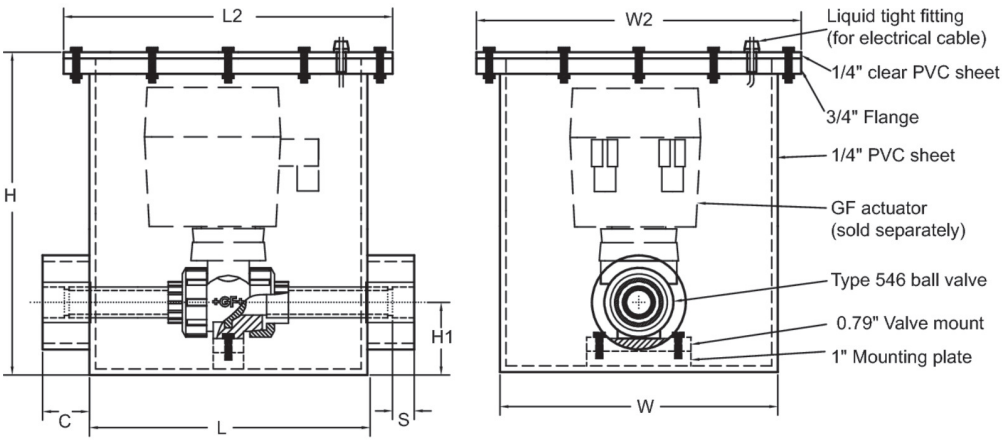


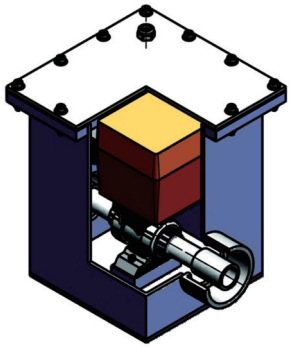


Actuated Valve Box, PVC x PVC

Inch (inch)	EPDM Code	FKM Code
1/2 x 2	**8546005020EAV**	**8546005020FAV**
3/4 x 3	**8546007030EAV**	**8546007030FAV**
1 x 3	**8546010030EAV**	**8546010030FAV**
1-1/2 x 4	**8546015040EAV**	**8546015040FAV**
2 x 4	**8546020040EAV**	**8546020040FAV**
3 x 6	**8546030060EAV**	**8546030060FAV**
4 x 8	**8546040080EAV**	**8546040080FAV**

Weight (lb)	W (inch)	L (inch)	H (inch)	H1 (inch)	C (inch)	S (inch)	W2 (inch)	L2 (inch)
8.70	10.00	10.00	14.00	3.10	1.57	0.88	12.00	12.00
8.95	10.00	10.00	14.00	3.22	2.02	1.00	12.00	12.00
10.20	10.00	10.00	14.00	3.46	2.02	1.13	12.00	12.00
14.34	10.00	10.00	16.00	4.05	2.40	1.38	12.00	12.00
33.44	10.00	10.00	16.00	4.56	2.40	1.50	12.00	12.00
61.34	13.00	15.00	24.00	6.17	3.21	1.88	15.00	17.00
94.52	15.00	17.00	24.00	6.88	4.20	2.25	17.00	19.00



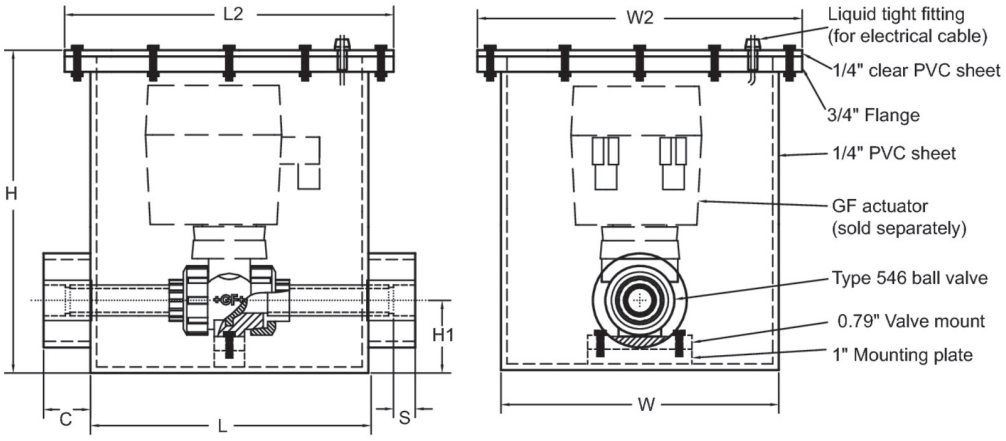


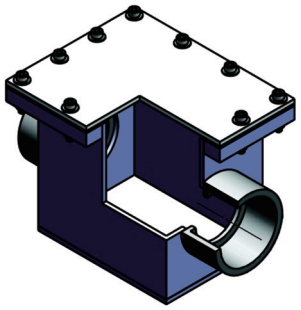
Actuated Valve Box, CPVC x PVC

Not Pressure Rated
Includes 546 Ball Valve, customer to purchase actuator of choice separately, to be mounted onto valve

Inch (inch)	EPDM Code	FKM Code
1/2 x 2	**9546005020EAV**	**9546005020FAV**
3/4 x 3	**9546007030EAV**	**9546007030FAV**
1 x 3	**9546010030EAV**	**9546010030FAV**
1-1/2 x 4	**9546015040EAV**	**9546015040FAV**
2 x 4	**9546020040EAV**	**9546020040FAV**
3 x 6	**9546030060EAV**	**9546030060FAV**
4 x 8	**9546040080EAV**	**9546040080FAV**

Weight (lb)	W (inch)	L (inch)	H (inch)	H1 (inch)	C (inch)	S (inch)	W2 (inch)	L2 (inch)
8.72	10.00	10.00	14.00	3.10	1.57	0.88	12.00	12.00
8.97	10.00	10.00	14.00	3.22	2.02	1.00	12.00	12.00
10.27	10.00	10.00	14.00	3.46	2.02	1.13	12.00	12.00
14.57	10.00	10.00	16.00	4.05	2.40	1.38	12.00	12.00
33.92	10.00	10.00	16.00	4.56	2.40	1.50	12.00	12.00
62.88	13.00	15.00	24.00	6.17	3.21	1.88	15.00	17.00
97.38	15.00	17.00	24.00	6.88	4.20	2.25	17.00	19.00

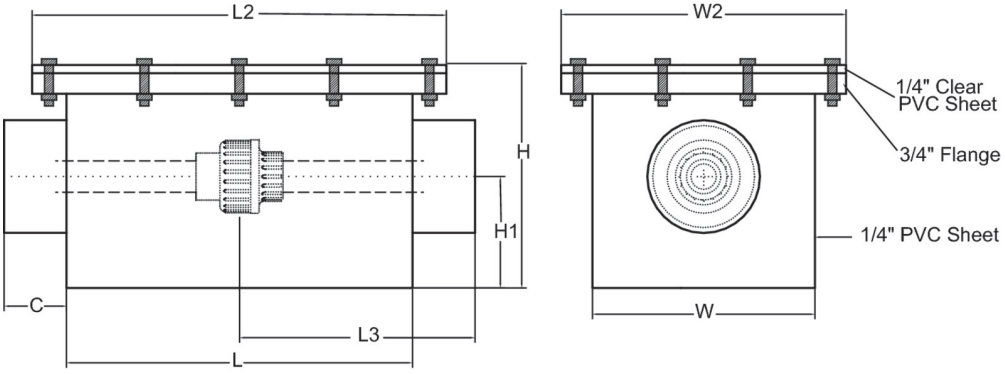


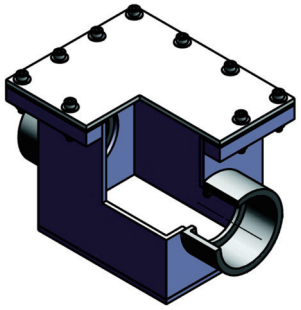


Flange/Union Box, PVC

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

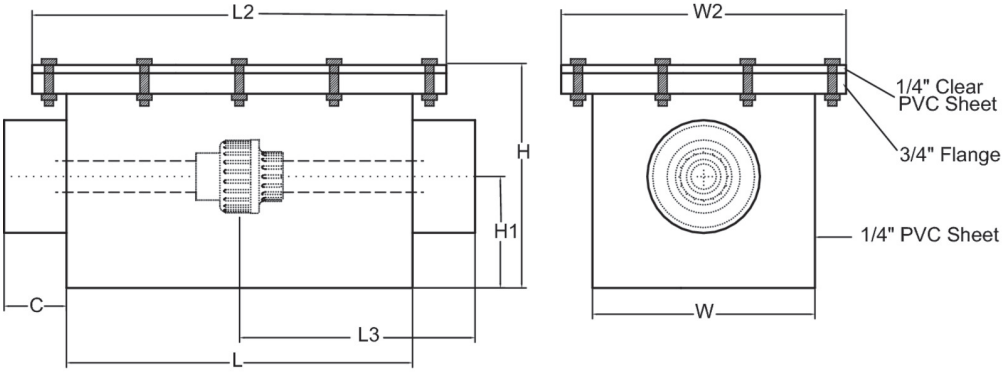




Flange/Union Box, CPVC

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	**9954020F**	6.58	9	11.00	14.00	16.00	8.57	9.00	4.50	1.57
3	**9954030F**	6.97	9	11.00	14.00	16.00	9.02	9.00	4.50	2.02
4	**9954040F**	9.32	12	14.00	14.00	16.00	9.40	12.00	6.00	2.40
6	**9954060F**	23.63	12	14.00	14.00	16.00	10.21	12.00	6.00	3.21
8	**9954080F**	36.29	15	17.00	15.00	17.00	11.70	15.00	7.50	4.20
10	**9954100F**	55.75	15	17.00	15.00	17.00	12.78	15.00	7.50	5.28



Solvent cements and tools

IPS WELD-ON product range

WELD-ON 724™ CPVC Cement Grey Quart (946mL)

Colour: grey
- 2 year shelf life
- 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.

Code	SP
200 064 140	12

WELD-ON P-70™ Primer Clear Quart (946mL)

Colour: clear
- 3 year shelf life
- 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 (PN10 and higher) and large size pipe.
- Excellent for cold weather applications.

Code	SP
200 064 143	12

WELD-ON 845

Colour: Tan
- 1 year shelf life
- 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.

Product Description	Code	SP
WELD-ON 845 SML adhesive cartridge 43ml	**200 063 388**	1
WELD-ON 845 adhesive cartridge Tan 400ml	**200 064 148**	1

Accessories for 845 Cartridges

Product Description	Code	SP
Manual Dispensing Gun Small 50mL cartridge	**200 063 387**	1
Pneumatic Dispensing Gun 400ml cartridge	**200 064 145**	1
Manual Dispensing Gun 400ml cartridge	**200 064 146**	1
Mixing Tip for 400ml cartridge	**200 064 147**	1

Applicators / Cap Daubers

- DH daubers fit ¼ and ½ pint cans.
- DP daubers fit ½ pint and pint cans.
- DQ daubers fit quart cans.

Available in 3/8", 1/2" 3/4" and 1½"

Dauber Size (inch)	Pipe Size (inch)	Code	SP
	⅜	**200 064 151**	1
½	⅜ - 1	**200 064 152**	1
¾	⅜ - 1 ½	**200 064 153**	1
1 ½	⅜ - 3	**200 064 154**	1

5020: 4" swab

- 4" swab for pipe diameters from 3" through 8"; fits standard quart can as well as MT-651 empty quart can.

Product Description	Code	SP
4" swab for pipe 6" and above	**200 064 149**	1
4" swab for pipe 3" to 8"	**200 064 150**	1

GF Piping Systems

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Local support

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