

Industrial Applications

PVC-U, PVC-C and Double-See™

Australian Product Range 2025



The PVC material

Safe, easy and efficient to use

There is a choice of PVC piping systems to meet every requirement, depending on the prerequisites.

PVC-U

PVC-U shows very good characteristics in the temperature range from 0° to 60°C. Thanks to their good temperature and chemical resistance, PVC-U systems withstand the most demanding conditions, particularly when transporting aggressive media such as acids, alkalis, bases, and salts. The high level of safety, efficiency, and reliability of the universal solution meets all requirements, from construction through to the operational use of industrial piping systems. The consistent fulfillment and exceeding of the requirements defined in international standards is proof of the quality, safety and reliability.



PVC-C

The PVC-C system is used for applications above 60°C. The PVC-C system is suitable for water and chemical applications up to a maximum temperature of 80°C. The dimension range is d16 to d225. PVC-C has a higher titanium dioxide content and is thus more resistant to UV.



Double containment piping system (Double-See™)

Double containment piping systems provide exceptional protection for people, the environment, and installations. The inner pipe is cemented and tested, then the outer pipe is closed. Visual and integrated, automated leakage monitoring systems are available.



Scan to use
GF Online Tools



Learn more about
Sustainability at GF

Tradition meets innovation

PVC-U pipe products can be jointed using solvent cementing or via infrared welding. For the IR welding existing IR-63 M can be used.



Tangit PVC-U

- Cementing PVC-U
- Long open time of four minutes
- Exceptional gap filling properties



Tangit Plus

- Cementing PVC-U
- THF-free solvent cement
- Open time of up to three minutes
- Drinking water approval



Tangit PVC-C

- Cementing PVC-C
- Permanent temperature resistance up to 80°C
- Especially suitable for hot water applications
- Good chemical resistance



Tangit DTX

- Cementing PVC-U and PVC-C
- Special adhesive for aggressive media



Tangit Rapid

- Cementing PVC-U and PVC-C
- 4x faster curing time (in comparison to common Tangit adhesives)
- Longer open time up to 8 minutes at 20°C



IR PVC-U: the first infrared welded PVC-U system

GF has been producing PVC-U for more than 65 years and is also a leader in infrared welding technology. Now we have combined our expertise in these two fields to bring the first IR welded PVC-U system to the market.

- + Improvements in work safety and environmental protection
- + Quality control and minimisation of jointing errors
- + Improved chemical resistance



Learn more about the
IR PVC-U system

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.



Essential system properties

- Food and drinking water approvals. Schedule 80 PVC-U pipe system is tested and approved to AS/NZS 4020.
- 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

Key market segments

- Water treatment
- Chemical process industry
- Food and beverage production
- Marine
- Energy

Technical data

Nominal pressure	Up to 16 bar
Temperature range	0 °C to +60 °C
Jointing technology	Solvent cementing
Standards and guidelines¹⁾	ISO, EN, ASTM, BS, JIS, CE, RoHS, DIN, DVS
Approvals¹⁾	DIBT, DVGW, GOST-R, DGS (ACS), WRAS, KIWA, CSTB, IIP, ABS, BV, CCS, DNV-GL, LR, RINA, RMROS, Watermark™

¹⁾ For additional information about standards, guidelines and approvals, please visit www.gfps.com.

PVC solvent cement training video



IPS Weld-On® installation guide and videos



Chemical Resistance Tool



Pressure and Temperature Tool



Polyvinyl chloride, unplasticized (PVC-U)



PVC-U properties (reference values)

Property	Value ¹	Units	Test standard
Density	1.38	g/cm ³	EN ISO 1183-1
Yield stress at 23 °C	≥ 54	N/mm ²	EN ISO 527-1
Tensile e-modulus at 23 °C	≥ 2,700	N/mm ²	EN ISO 527-1
Charpy notched impact strength at 23 °C	≥ 3	kJ/m ²	EN ISO 179-1/1eA
Charpy notched impact strength at 0 °C	≥ 2	kJ/m ²	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. PVCU'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.



Essential system properties

- Food and drinking water approvals. Schedule 80 PVC-C pipe system is tested and approved to AS/NZS 4020.
- 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

Key market segments

- Water treatment
- Chemical process industry
- Food and beverage production
- Marine
- 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, Watermark™

¹⁾ For additional information about standards, guidelines and approvals, please visit www.gfps.com.

PVC solvent cement training video



IPS Weld-On® installation guide and videos



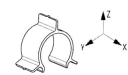
Chemical Resistance Tool



Pressure and Temperature Tool



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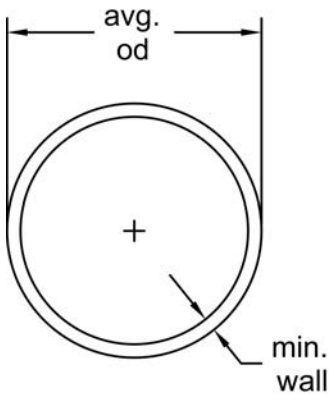
PVC-U Schedule 80 Pipes



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

Model:

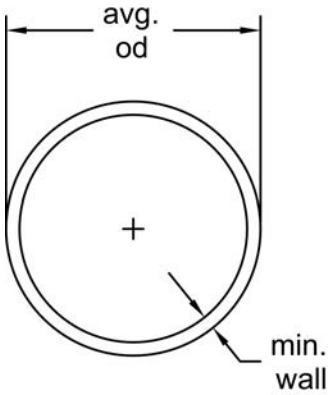
- Colour: dark grey
- AS/NZS 4020 DWC Approved
- Raw Material: PVC Type I Grade 1 material as defined by ASTM D1785 Appendix. Cell class 12454



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
1 ¼	35.828	26.871	22.186	17.914	14.331	10.748	7.855
1 ½	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
2 ½	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).



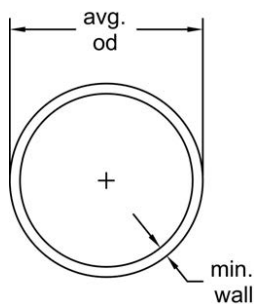
PVC-U Schedule 80 Pipe - 20ft lengths (6.1m)

- 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
¾	H0800038 PG2000	17.1	3.2	0.21	920
8	H0800800 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						

- Figures for pressure rating at 23°C are rounded off from actual calculated values. Pressure ratings for other temperatures are calculated from 23°C values.
- Pressure rating values are for PVC (12454-B) pipe and for most values are calculated from the experimentally determined long term strength of PVC1 extrusion compounds. Because moulding 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.
- 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).



Schedule 40 PVC Clear Pipe - 10 ft. lengths

Meets ASTM D 1785 Material: PVC Transparent 10ft. or 2.9m Lengths

* Material: PVC Transparent

* Meets ASTM D 1785

* 10ft. or 2.9m lengths

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

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

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

Also see this catalogue for pipe clips.

Size (inch)	Avg. OD (mm)	Avg. Wall (mm)	Avg. ID (mm)	Pressure Rating of Pipe at Service Tem- perature (bar) @ 23°C	Code	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)



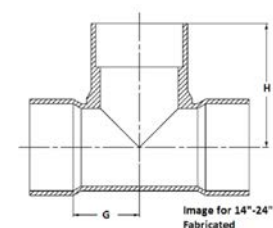
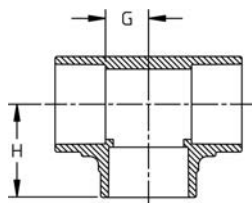
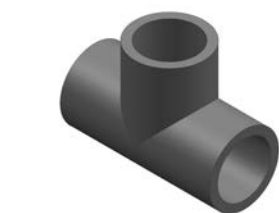
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Glossary

FPT	= Female Pipe Thread
MPT	= Male Pipe Thread
S	= Tapered Socket
SPG	= Spigot End (same dimension as pipe outside diameter)
HS	= High Strength Design
SL	= Streamline Design
BUSH	= Assembled Fitting from Molded Components
FAB	= Fabricated Fitting

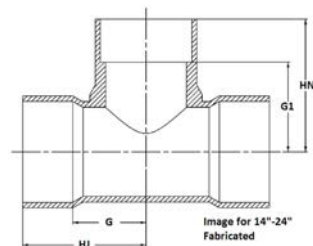
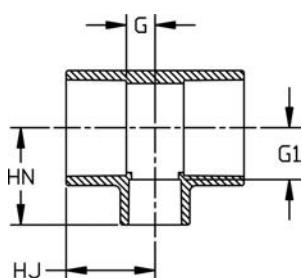
Tees

Tee (S x S x S)



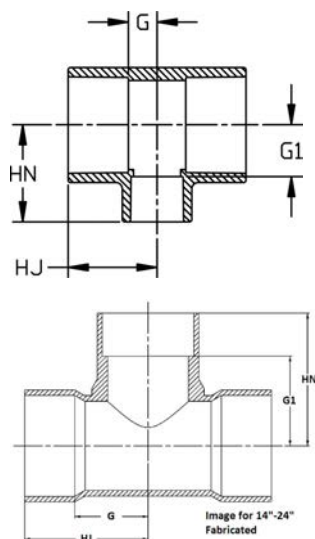
Size (inch)	P/L	Code	Pack Qty	H (inch)	G (inch)	Design
¼	08	801-002	50	0.95	0.27	HS
¾	08	801-003	50	1.16	0.38	HS
½	08	801-005	25	1.41	0.51	SL
¾	08	801-007	25	1.60	0.58	SL
1	08	801-010	20	1.85	0.71	SL
1 ¼	08	801-012	10	2.17	0.91	SL
1 ½	08	801-015	10	2.43	1.04	SL
2	08	801-020	10	2.81	1.30	SL
2 ½	08	801-025	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)



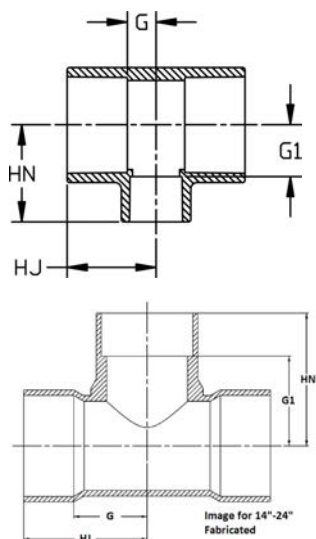
Size (inch)	P/L	Code	Pack Qty	HJ (inch)	HN (inch)	G (inch)	G1 (inch)	Design
¾ x ½	08	801-101	25	1.62	1.62	0.60	0.72	SL
1 x ½	08	801-130	25	1.87	1.64	0.72	0.74	SL
1 x ¾	08	801-131	20	1.86	1.89	0.72	0.75	SL
1 ¼ x ½	608	801-166FB	20	1.99	2.35	0.73	1.47	BUSH
1 ¼ x ¾	608	801-167FB	20	1.99	2.35	0.73	1.33	BUSH
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



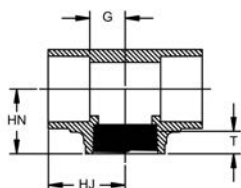
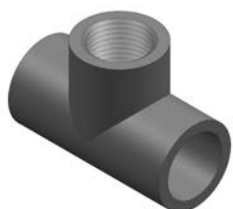
Size (inch)	P/L	Code	Pack Qty	HJ (inch)	HN (inch)	G (inch)	G1 (inch)	Design
4 x ¾	608	801-416FB	5	3.52	4.19	1.27	3.17	BUSH
4 x 1		801-417	5	2.99	3.49	0.74	2.36	
4 x 1 ¼	608	801-418FB	5	3.52	4.18	1.27	2.91	BUSH
4 x 1 ½	08	801-419FB	5	3.52	4.19	1.27	2.78	BUSH
4 x 2	08	801-420	5	3.54	3.87	1.27	2.37	SL
4 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	

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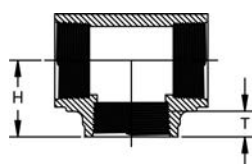
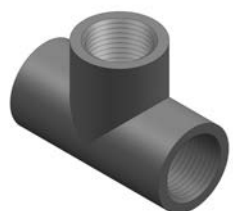
Size (inch)	P/L	Code	Pack Qty	HJ (inch)	HN (inch)	G (inch)	G1 (inch)	Design
20 x 16		801-826N	1	22.63	25.25	12.63	17.25	
20 x 18		801-828N	1	23.63	27.25	13.63	18.25	
24 x 4		801-904N	1	19.38	19.50	7.38	17.50	
24 x 6		801-906N	1	20.50	20.50	8.50	17.50	
24 x 8		801-908N	1	21.50	21.50	9.50	17.50	
24 x 10		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

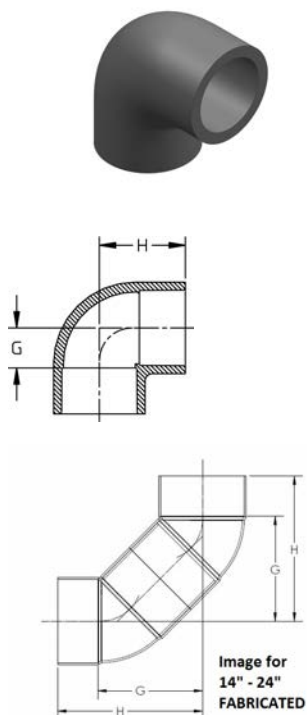
Tee (FPT x FPT x FPT)



Size (inch)	P/L	Code	Pack Qty	H (inch)	T (inch)	Design
¼	08	805-002	50	0.94	0.59	HS
¾	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

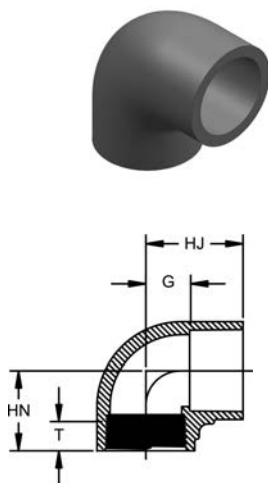
Elbows

90° Ell (S x S)



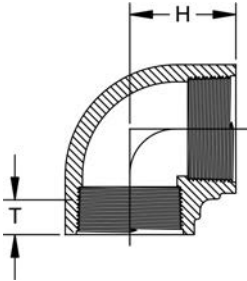
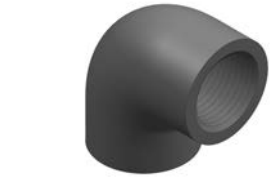
Size (inch)	P/L	Code	Pack Qty	H (inch)	G (inch)	Design
¼	08	806-002	50	0.96	0.35	HS
¾	08	806-003	50	1.15	0.39	HS
½	08	806-005	25	1.41	0.51	SL
¾	08	806-007	25	1.60	0.57	SL
1	08	806-010	10	1.83	0.68	SL
1 ¼	08	806-012	10	2.18	0.90	SL
1 ½	08	806-015	10	2.43	1.04	SL
2	08	806-020	20	2.80	1.27	SL
2 ½	08	806-025	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	43.00	31.00	FAB

90° Elbow (SxFT)



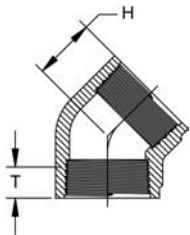
Size (inch)	P/L	Code	Pack Qty	HJ (inch)	HN (inch)	G (inch)	T (inch)	Design
½	08	807-005	25	1.40	1.31	0.50	0.81	HS
¾	08	807-007	25	1.59	1.36	0.58	0.72	HS
1	08	807-010	10	1.81	1.70	0.67	1.00	HS
1 ¼	08	807-012	10	2.15	1.92	0.90	1.03	HS
1 ½	08	807-015	10	2.39	2.05	1.01	1.05	HS
2	08	807-020	5	2.77	2.36	1.24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

90° Elbow (FPTxIPT)



Size (inch)	P/L	Code	Pack Qty	H (inch)	T (inch)	Design
¼	08	808-002	50	0.94	0.61	HS
¾	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
¾	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)

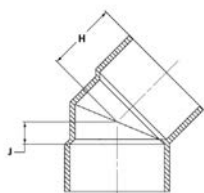
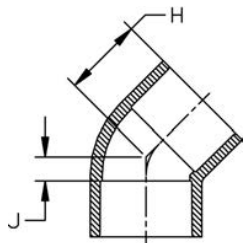
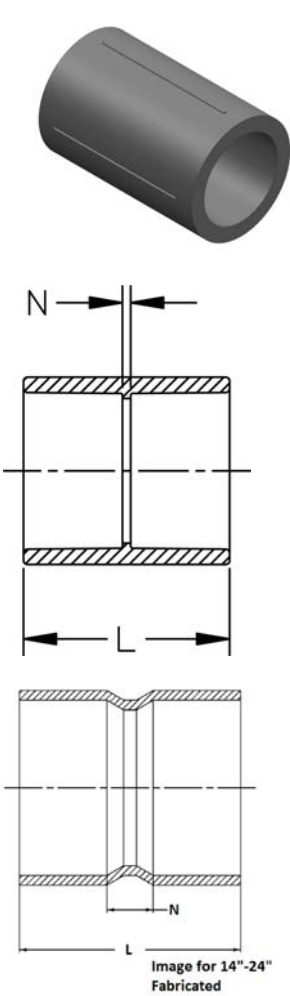


Image for 14"-24"
Fabricated

Size (inch)	P/L	Code	Pack Qty	H (inch)	J (inch)	Design
¼	608	817-002	50	0.81	0.18	HS
¾	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)

Size (inch)	P/L	Code	Pack Qty	L (inch)	N (inch)	Design
¾	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	608	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	608	829-040	5	4.80	0.26	SL
6	608	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	02	829-120	1	12.82	0.75	SL
14	05	829-140N	1	17.50	3.50	FAB
16	A33	829-160N	1	20.25	4.25	FAB
18	A33	829-180N	1	23.00	5.00	FAB
20	A33	829-200N	1	25.25	5.25	FAB
24	A33	829-240N	1	30.25	6.25	FAB

Reducing Coupling (S x S)

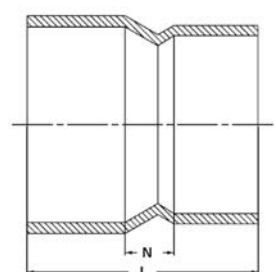
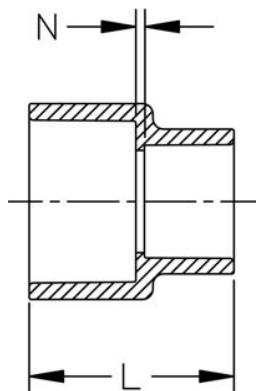
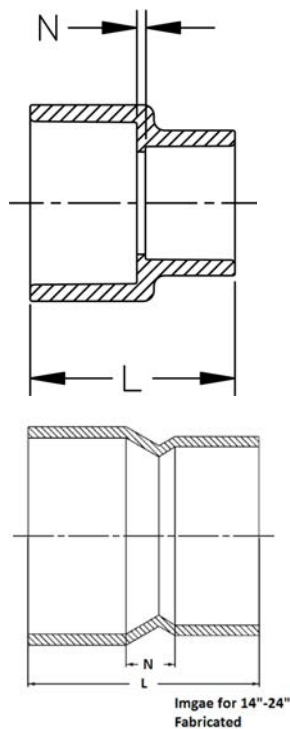


Image for 14"-24"
Fabricated

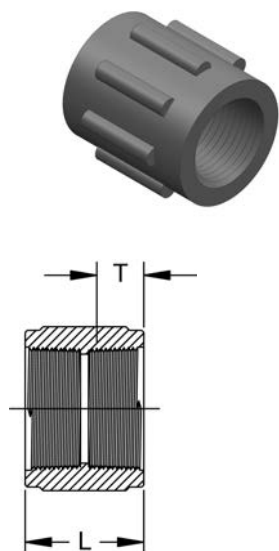
Size (inch)	P/L	Code	Pack Qty	L (inch)	N (inch)	Design
¾ x ½	608	829-101	20	2.13	0.13	HS
1 x ½	08	829-130	25	2.17	0.12	HS
1 x ¾	608	829-131	25	2.26	0.11	HS
1 ¼ x 1	08	829-168	10	2.52	0.10	HS
1 ½ x ½	08	829-209FB	10	2.94	0.66	BUSH
1 ½ x ¾	608	829-210	10	2.50	0.09	BUSH
1 ½ x 1	608	829-211	10	2.65	0.11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

table continued on the next page



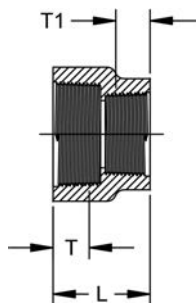
Size (inch)	P/L	Code	Pack Qty	L (inch)	N (inch)	Design
20 x 14	A33	829-824N	1	37.25	20.25	FAB
20 x 16	A33	829-826N	1	24.50	6.50	FAB
20 x 18	A33	829-828N	1	24.00	5.00	FAB
24 x 4	A33	829-904N	1	66.00	52.00	FAB
24 x 6	A33	829-906N	1	61.00	46.00	FAB
24 x 8	A33	829-908N	1	52.00	36.00	FAB
24 x 10	A33	829-910N	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 16	A33	829-916N	1	42.25	22.25	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

Coupling (FPT x FPT)



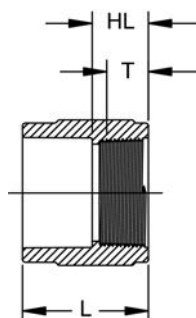
Size (inch)	P/L	Code	Pack Qty	L (inch)	T (inch)	Design
¼	608	830-002	50	1.29	0.61	HS
⅜	08	830-003	50	1.35	0.62	HS
½	608	830-005	25	1.68	0.77	HS
¾	08	830-007	20	1.75	0.80	SL
1	08	830-010	25	2.13	0.99	SL
1 ¼	608	830-012	10	2.19	1.03	SL
1 ½	08	830-015	10	2.22	1.03	HS
2	08	830-020	5	2.29	1.08	HS
2 ½	08	830-025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



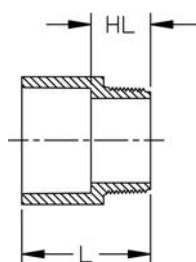
Size (inch)	P/L	Code	Pack Qty	L (inch)	T (inch)	T1 (inch)	Design
3/8 x 1/4	608	830-052	50	1.29	0.60	0.59	HS
1/2 x 1/4	608	830-072	50	1.44	0.75	0.59	HS
1/2 x 3/8	08	830-073	50	1.46	0.74	0.60	HS
3/4 x 1/2	08	830-101	25	1.68	0.78	0.78	HS
1 x 1/2	608	830-130	25	1.84	0.98	0.77	HS
1 x 3/4	08	830-131	25	1.88	0.98	0.80	HS
1 1/4 x 3/4	08	830-167	25	1.90	1.00	0.79	HS
1 1/2 x 1	08	830-211	20	2.06	1.02	0.95	HS
2 x 1 1/2	608	830-251	10	2.18	1.05	1.02	HS

Female Adapter (S x FPT)



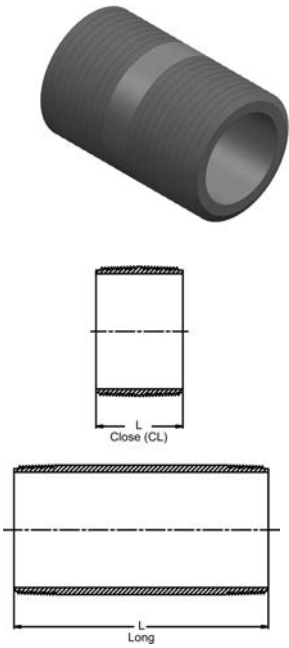
Size (inch)	P/L	Code	Pack Qty	HL (inch)	L (inch)	T (inch)	Design
1/4	08	835-002	50	0.75	1.43	0.58	HS
3/8	608	835-003	50	0.75	1.56	0.62	HS
1/2	608	835-005	25	0.91	1.80	0.75	HS
3/4	608	835-007	25	0.95	1.96	0.79	HS
1	608	835-010	25	1.11	2.27	0.98	HS
1 1/4	08	835-012	10	1.18	2.44	1.02	HS
1 1/2	608	835-015	10	1.19	2.59	1.03	HS
2	608	835-020	5	1.25	2.76	1.06	HS
2 1/2	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)



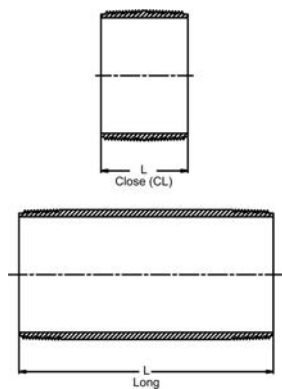
Size (inch)	P/L	Code	Pack Qty	HL (inch)	L (inch)	Design
1/2	608	836-005	50	0.94	1.85	SL
3/4	08	836-007	25	1.05	2.03	HS
1	08	836-010	25	1.22	2.38	HS
1 1/4	08	836-012	15	1.28	2.56	HS
1 1/2	608	836-015	10	1.30	2.69	HS
2	08	836-020	5	1.32	2.83	HS
2 1/2	08	836-025	5	1.87	3.70	HS
3	608	836-030	5	1.99	3.90	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)



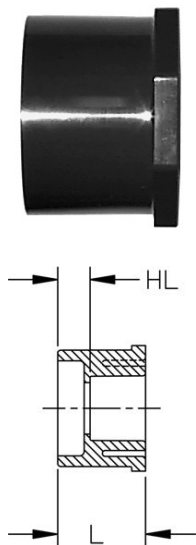
Inch (inch)	P/L	Code	Pack Qty	L (inch)	Design
1/2 x CL	608	861-077	50	1.13	MOLD
1/2 x 2	608	861-079	25	2.00	MOLD
1/2 x 3	608	861-081	25	3.00	MOLD
1/2 x 4	608	861-082	25	4.00	MOLD
1/2 x 5	608	861-083	25	5.00	MOLD
1/2 x 6	608	861-084	25	6.00	MOLD
1/2 x 8	608	861-086	25	8.00	FAB
1/2 x 10	608	861-087	25	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

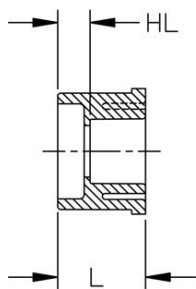
Reducers



Flush Style Reducer Bushing (SPG x S)

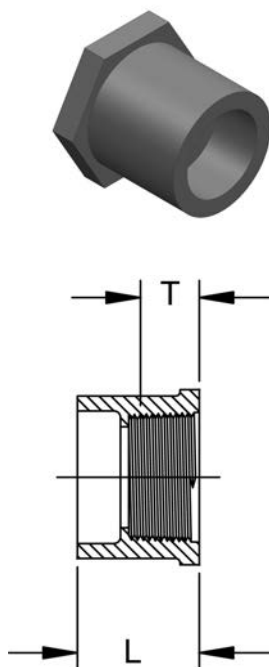
Size (inch)	P/L	Code	Pack Qty	HL (inch)	L (inch)	Design
½ - ¼	08	837-072	50	0.46	1.14	FLUSH
½ - ⅜	08	837-073	50	0.32	1.10	FLUSH
¾ - ½	08	837-101	50	0.40	1.29	FLUSH
1 - ½	08	837-130	50	0.54	1.42	FLUSH
1 - ¾	08	837-131	50	0.44	1.42	FLUSH
1 ¼ - ½	08	837-166	25	0.66	1.56	FLUSH
1 ¼ - ¾	08	837-167	25	0.55	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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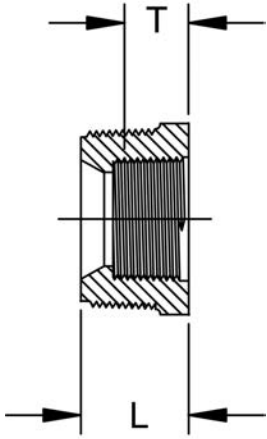
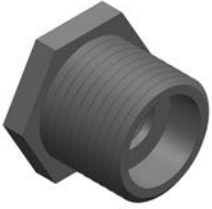
Size (inch)	P/L	Code	Pack Qty	HL (inch)	L (inch)	Design
20 - 8	05	837-818N	1	6.25	10.25	FAB
20 - 10	05	837-820N	1	5.25	10.25	FAB
20 - 12	05	837-822N	1	4.25	10.25	FAB
20 - 14	05	837-824N	1	3.25	10.25	FAB
20 - 16	05	837-826N	1	2.25	10.25	FAB
20 - 18	05	837-828N	1	1.25	10.25	FAB
24 - 4	05	837-904N	1	10.25	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)



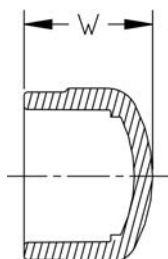
Size (inch)	P/L	Code	Pack Qty	L (inch)	T (inch)	Design
3/8 x 1/4	08	838-052E	50	1.59	0.60	Extended
1/2 x 1/4	608	838-072	50	1.14	0.61	FLUSH
1/2 x 3/8	608	838-073	50	1.21	0.60	FLUSH
3/4 x 1/4	608	838-098	50	1.13	0.61	FLUSH
3/4 x 1/2	608	838-101	50	1.28	0.77	FLUSH
1 x 1/2	608	838-130	50	1.42	0.76	FLUSH
1 x 3/4	08	838-131	50	1.41	0.81	FLUSH
1 1/4 x 1/2	608	838-166	15	1.56	0.75	FLUSH
1 1/4 x 3/4	08	838-167	15	1.56	0.79	FLUSH
1 1/4 x 1	08	838-168	15	1.56	0.99	FLUSH
1 1/2 x 1/2	608	838-209	15	1.68	0.76	FLUSH
1 1/2 x 3/4	08	838-210	15	1.69	0.79	FLUSH
1 1/2 x 1	608	838-211	15	1.68	0.99	FLUSH
1 1/2 x 1 1/4	08	838-212	15	1.69	1.10	FLUSH
2 x 1/2	608	838-247	10	1.80	0.77	FLUSH
2 x 3/4	08	838-248	10	1.80	0.80	FLUSH
2 x 1	608	838-249	10	1.80	0.99	FLUSH
2 x 1 1/4	08	838-250	10	1.81	1.02	FLUSH
2 x 1 1/2	08	838-251	10	1.88	1.04	FLUSH
2 1/2 x 1 1/2	608	838-291	5	2.24	1.07	FLUSH
2 1/2 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 1/2	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
3/8 x 1/4	08	839-052	50	0.80	0.60	FLUSH
1/2 x 1/4	08	839-072	50	0.95	0.60	FLUSH
1/2 x 3/8	08	839-073	50	0.96	0.61	FLUSH
3/4 x 1/4	08	839-098	50	1.01	0.61	FLUSH
3/4 x 3/8	08	839-099	50	1.02	0.61	FLUSH
3/4 x 1/2	08	839-101	50	1.08	0.75	FLUSH
1 x 1/4	08	839-128	25	1.23	0.58	FLUSH
1 x 1/2	08	839-130	25	1.24	0.76	FLUSH
1 x 3/4	08	839-131	25	1.28	0.80	FLUSH
1 1/4 x 1/2	08	839-166	25	1.29	0.76	FLUSH
1 1/4 x 3/4	08	839-167	25	1.29	0.79	FLUSH
1 1/4 x 1	08	839-168	25	1.30	1.00	FLUSH
1 1/2 x 3/4	08	839-210	25	1.33	0.78	FLUSH
1 1/2 x 1	08	839-211	25	1.34	0.98	FLUSH
1 1/2 x 1 1/4	08	839-212	25	1.33	1.02	FLUSH
2 x 1/2	08	839-247	10	1.44	0.76	FLUSH
2 x 3/4	08	839-248	10	1.44	0.80	FLUSH
2 x 1	08	839-249	10	1.42	0.97	FLUSH
2 x 1 1/4	08	839-250	10	1.43	1.01	FLUSH
2 x 1 1/2	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

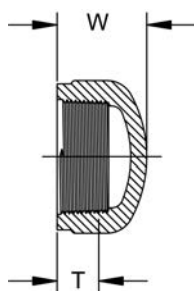
Caps and plugs



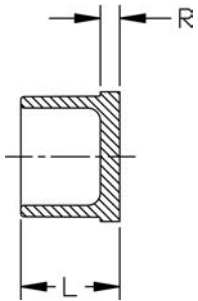
Cap (S) Schedule 80 Harvel® PVC

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



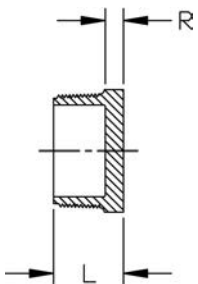
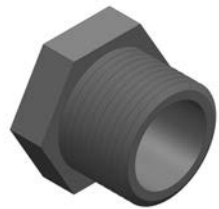
Size (inch)	P/L	Code	Pack Qty	W (inch)	T (inch)	Design
¼	608	848-002	50	0.93	0.54	HS
⅜	608	848-003	50	0.94	0.62	HS
½	608	848-005	50	1.14	0.74	HS
¾	608	848-007	25	1.25	0.80	HS
1	608	848-010	25	1.51	0.97	HS
1 ¼	608	848-012	15	1.59	1.00	HS
1 ½	608	848-015	10	1.70	1.01	HS
2	608	848-020	5	1.82	1.06	HS
2 ½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

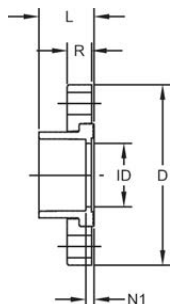
Size (inch)	P/L	Code	Pack Qty	L (inch)	R (inch)
½	608	849-005	50	1.08	0.18
¾	608	849-007	50	1.25	0.22
1	608	849-010	25	1.41	0.25
1 ½	608	849-015	20	1.72	0.31
2	608	849-020	10	1.90	0.38
4	608	849-040	5	2.65	0.39

Plug (MPT)



Size (inch)	P/L	Code	Pack Qty	L (inch)	R (inch)	Design
¼	608	850-002	50	0.81	0.22	HS
¾	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 ½	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	08	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	¾	4.75	6.00	1.76	0.20	0.82	2.10	HC
2 ½	2 ½	5	4	¾	5.50	7.00	2.05	0.22	0.98	2.50	HC
3	3	5	4	¾	6.00	7.50	2.25	0.30	1.02	3.11	HC
4	4	5	8	¾	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	¾	14.25	16.00	5.63	0.50	1.73	10.09	HC
12	12	2	12	¾	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

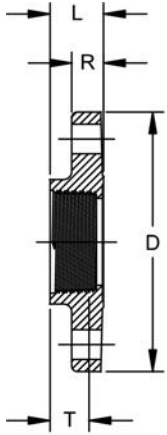
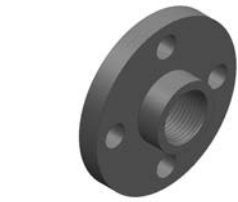
Flange - One Piece (FPT)

Non-stock item:

please check availability with Customer Service team .

- 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	¾	4.75	6.02	1.22	1.06	0.70	HC
2 ½	08	852-025	5	4	¾	5.50	7.00	1.72	1.53	0.75	HC
3	08	852-030	5	4	¾	6.00	7.50	2.15	1.63	1.15	HC
4	08	852-040	5	8	¾	7.50	9.00	2.30	1.77	1.23	HC

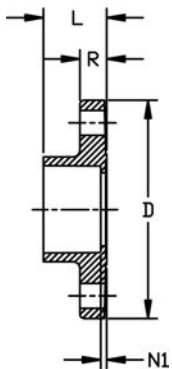


One Piece Flange (S) Schedule 80 Harvel® PVC

- 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

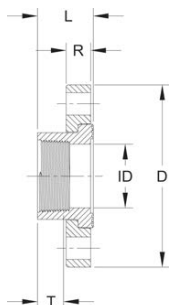
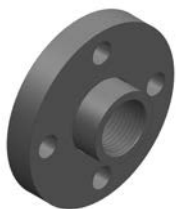
Size (inch)	P/L	Code
½	08	851-005
¾	608	851-007
1	08	851-010
1 ¼	608	851-012
1 ½	08	851-015
2	08	851-020
2 ½	608	851-025
3	08	851-030
4	08	851-040
6	08	851-060
8	08	851-080

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	¾	4.75	6.01	1.73	0.16	0.69	HC		
5	4	¾	5.50	7.00	1.99	0.17	0.75	HC		
5	4	¾	6.00	7.51	2.46	0.57	1.10	HC		
5	8	¾	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

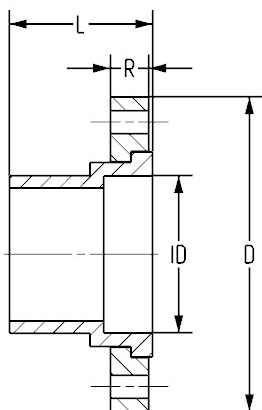
- ANSI 150 Class according to ANSI B16.5
- 150 psi @ 73°F (10.3 bar @ 22.7°C)
- 150 psi @ 73°F (10.3 bar @ 22.7°C)



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	¾	4.75	6.02	1.82	1.09	0.82	2.08	HC
2 ½	08	855-025	5	4	¾	5.50	7.01	2.13	1.58	0.98	2.50	HC
3	08	855-030	5	4	¾	6.00	7.50	2.36	1.71	1.02	3.08	HC
4	608	855-040	5	8	¾	7.50	8.99	2.78	1.72	1.10	4.09	HC

Flange - Van Stone (SPG)

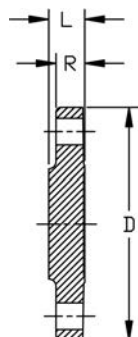
- ANSI 150 Class according to ANSI B16.5
- 1/2" - 12" rating pressione 150 psi @ 73°F (10.3 bar @ 22.7°C)
- 14" - 24" pressure rating is 100 psi @ 73°F (6.9 bar @ 22.7°C) - Steel Ring
- 150 psi @ 73°F (10.3 bar @ 22.7°C)
- HC = Honeycomb (Front)
- 3" - 12" have CPVC Ring
- 3" - 12" have Steel Ring



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	¾	4.75	6.02	2.80	0.82	2.38	HC
2 ½	608	856-025	5	4	¾	5.50	7.01	3.27	0.98	2.86	HC
3	608	856-030	5	4	¾	6.00	7.50	3.60	1.02	3.49	HC
4	608	856-040	5	8	¾	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	¾	14.25	15.97	8.30	1.73	10.70	HC
12	602	856-120	1	12	¾	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 ¼	22.75	25.00	16.00	0.50	14.76	FAB
20	A33	856-200N	1	20	1 ¼	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

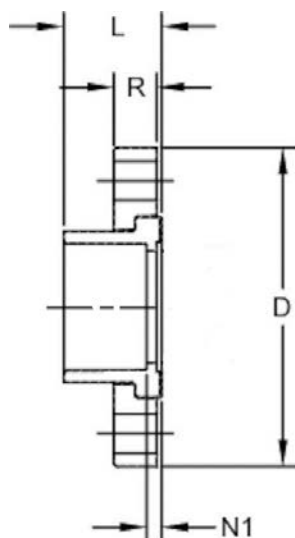
- ANSI 150 Class according to ANSI B16.5
- 1/2" - 8" 150 psi @ 73°F (10.3 bar @ 22.7°C)
- 10" - 24" 50 psi @ 73°F (3.5 bar @ 22.7°C)



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

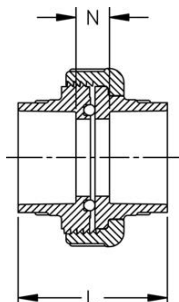
Flange - Van Stone 300 (S)

- 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
1/2	608	854-005-300	5	4	1/2	2.63	3.75	1.03	0.11	0.57	FAB
3/4	608	854-007-300	5	4	3/4	3.25	4.63	1.15	0.13	0.59	FAB
1	608	854-010-300	5	4	3/4	3.50	4.88	1.38	0.11	0.66	FAB
1 1/4	608	854-012-300	5	4	3/4	3.88	5.25	1.45	0.14	0.69	FAB
1 1/2	608	854-015-300	5	4	3/4	4.50	6.13	1.59	0.15	0.75	FAB
2	608	854-020-300	5	8	3/4	5.00	6.50	1.76	0.20	0.82	FAB
2 1/2	608	854-025-300	5	8	3/4	5.88	7.50	2.05	0.22	0.98	FAB
3	608	854-030-300	5	8	3/4	6.63	8.25	2.25	0.30	1.02	FAB
4	608	854-040-300	5	8	3/4	7.88	10.00	2.65	0.34	1.10	FAB
6	608	854-060-300	2	12	3/4	10.63	12.50	3.45	0.35	1.25	FAB
8	608	854-080-300	2	12	3/4	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 1/4	17.75	20.50	6.69	0.56	1.72	FAB

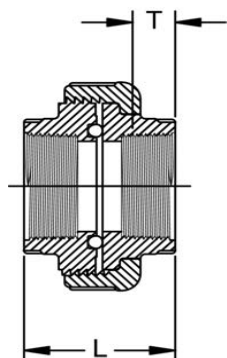
Unions



Union (SxS)

150 psi @ 73°F (10.3 bar @ 22.7°C)

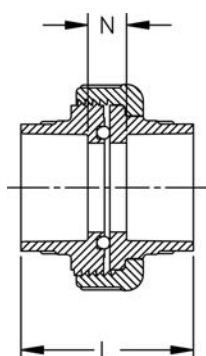
Size (inch)	P/L	EPDM Code	FKM Code	Pack Qty	L (inch)	N (inch)
3	08	897-030	857-030	1	4.74	0.96
4	08	897-040	857-040	1	5.62	1.11



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



Union Type 375 (S x S)

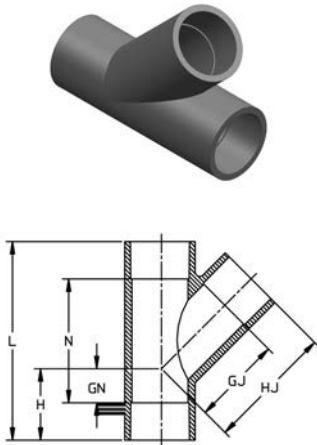
235 psi @ 73°F (16.2 bar @ 22.7°C)

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

45° Wyes

45° Wye (SxSxS)

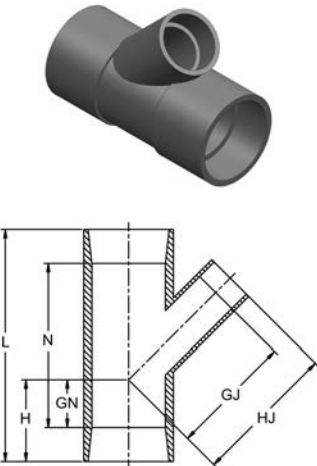
1-1/2" - 2" 235 psi @ 72°F (16.2 bar @ 22.7°C)
 3" - 6" 150 psi @ 72°F (10.3 bar @ 22.7°C)
 8" & Larger 100 psi @ 72°F (6.9 bar @ 22.7°C)



Size (inch)	P/L	Code	Pack Qty	GJ (inch)	GN (inch)	H (inch)	HJ (inch)	L (inch)	N (inch)	Design
1 1/2	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 1/2	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

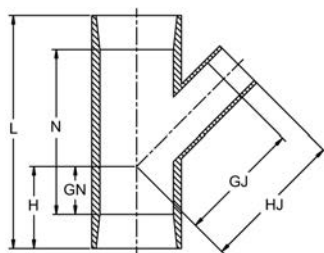
Reducing 45° Wye (SxSxS)

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)



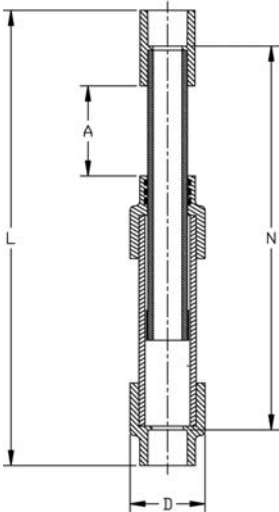
Size (inch)	P/L	Code	Pack Qty	GJ (inch)	GN (inch)	H (inch)	HJ (inch)	L (inch)	N (inch)	Design
2 x 1	608	870-249FB	10	4.27	1.38	2.88	5.41	8.02	5.00	BUSH
2 x 1 1/2	608	870-251FB	10	3.96	1.36	2.87	5.37	7.99	4.97	BUSH
3 x 1 1/2		870-337FB	4	5.80	1.82	3.73	7.34	10.45	6.62	
3 x 2	08	870-338FB	4	5.77	1.82	3.73	7.33	10.45	6.62	BUSH
4 x 2	08	870-420FB	4	7.40	2.06	4.41	9.00	12.94	8.24	BUSH
4 x 3		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		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	608	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	

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
16 x 14	A33	875-740N	1	27.25	6.25	14.25	34.25	44.50	28.50	FAB
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

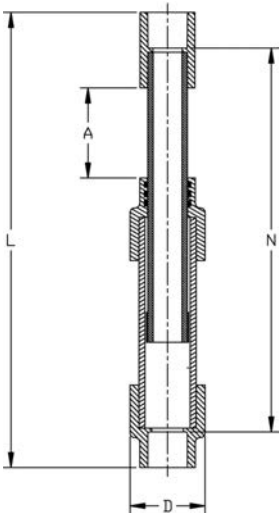
Expansion joints



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

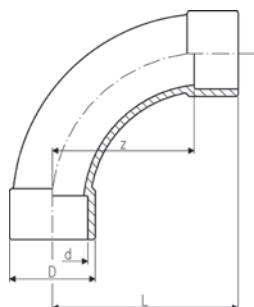
PVC-U British Standard Imperial Fittings

(All British Standard threads are BSP)



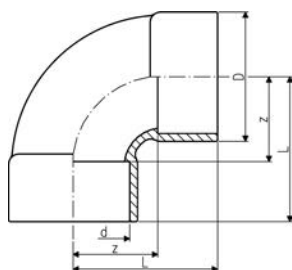
	Fittings	44
	Adaptor fittings	49
	Unions	53
	Threaded fittings	58
	Saddles	62

Fittings



Bend 90° PVC-U Inch BS

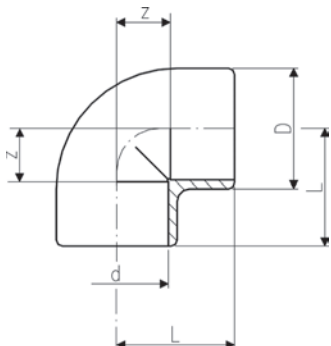
Size (inch)	PN (bar)	d (mm)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
½	15		721 001 106	10	0.026	40	29	58
¾	15		721 001 107	10	0.047	50	35	71
1	15		721 001 108	10	0.069	64	43	88
1 ¼	15		721 001 109	5	0.206	80	54	109
1 ½	15		721 001 110	5	0.312	100	64	131
2	15		721 001 111	4	0.556	126	76	163
2 ½	16	75	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	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

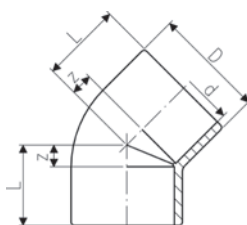
Size (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
8	9	721 011 120	1	8.297	168	256	287

Elbow 90° PVC-U Inch BS



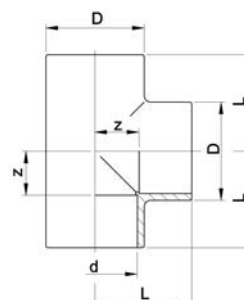
Size (inch)	PN (bar)	d (mm)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
3/8	15		721 101 105	10	0.016	10	24	25
1/2	15		721 101 106	10	0.022	13	27	30
3/4	15		721 101 107	10	0.025	14	33	34
1	15		721 101 108	10	0.038	17	40	39
1 1/4	15		721 101 109	10	0.079	22	51	49
1 1/2	15		721 101 110	10	0.116	26	58	56
2	15		721 101 111	1	0.215	32	72	68
2 1/2	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

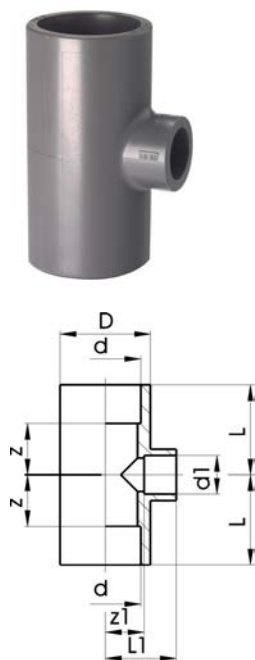


PN (bar)	d (inch)	d (mm)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
15	3/8		721 151 105	10	0.008	4	22	19
15	1/2		721 151 106	10	0.012	5	27	21
15	3/4		721 151 107	10	0.020	6	33	25
15	1		721 151 108	10	0.037	8	41	30
15	1 1/4		721 151 109	10	0.060	10	51	37
15	1 1/2		721 151 110	5	0.089	11	58	41
15	2		721 151 111	5	0.137	14	72	50
16	2 1/2	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

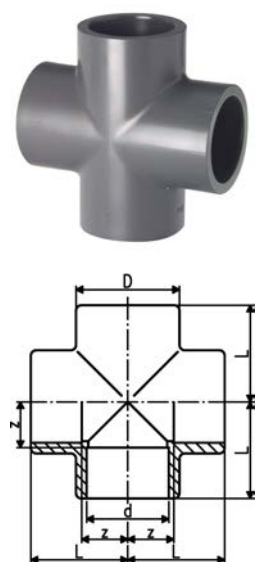


PN (bar)	Size (inch)	d (mm)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
15	3/8		721 201 105	10	0.018	10	25	25
15	1/2		721 201 106	10	0.036	13	30	30
15	3/4		721 201 107	10	0.051	16	35	37
15	1		721 201 108	10	0.079	19	43	43
15	1 1/4		721 201 109	10	0.105	22	50	51
15	1 1/2		721 201 110	5	0.157	26	57	56
15	2		721 201 111	5	0.294	32	72	68
15	3		721 201 113	5	0.847	46	107	97
15	4		721 201 115	8	1.864	59	138	122
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



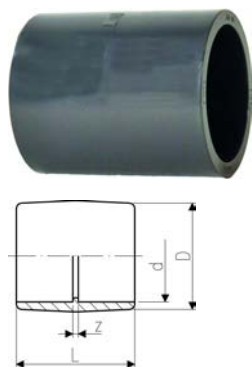
Cross PVC-U Inch BS

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	33
1	12		721 301 108	10	0.081	17	39
1 ¼	12		721 301 109	5	0.130	22	49
1 ½	12		721 301 110	5	0.299	30	60
2	12		721 301 111	5	0.556	37	74
	10	75	721 300 112	3	0.725	40	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	46
9		¾	721 251 107	10	0.052	35	8	33	55
9		1	721 251 108	10	0.090	43	8	41	67
9		1 ¼	721 251 109	10	0.145	55	9	50	82
9		1 ½	721 251 110	8	0.274	67	13	60	97
9		2	721 251 111	10	0.476	87	16	74	123
6	75	2 ½	721 250 112	5	0.816	101	18	91	145
6		3	721 251 113	1	1.324	122	20	107	173
6		4	721 251 115	3	2.403	147	25	134	210
6	140	5	721 250 116	1	5.628	190	34	168	266

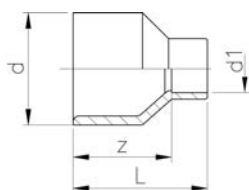

Socket equal PVC-U Inch BS

PN (bar)	d (inch)	Size (inch)	d (mm)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
15	3/4	3/4		721 911 105	10	0.007	3	23	32
15	1/2	1/2		721 911 106	10	0.011	3	27	36
15	3/4	3/4		721 911 107	10	0.018	3	33	45
15	1	1		721 911 108	10	0.029	3	41	51
15	1 1/4	1 1/4		721 911 109	10	0.048	3	51	57
15	1 1/2			721 911 110	10	0.070	3	58	63
15	2			721 911 111	5	0.128	3	72	77
16	2 1/2		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)
*	1/2	3/4	15	721 901 334	10	0.003	2	18
*	3/4	3/4	15	721 901 338	10	0.013	5	21
*	3/4	1/2	15	721 901 337	10	0.006	3	21
	1	3/4	15	721 901 343	10	0.013	8	24
	1	1/2	15	721 901 342	10	0.015	6	24
	1	3/4	15	721 901 341	10	0.010	3	24
	1 1/4	3/4	15	721 901 349	10	0.024	13	29
	1 1/4	1/2	15	721 901 348	10	0.023	11	29
	1 1/4	3/4	15	721 901 347	10	0.025	8	29
	1 1/4	1	15	721 901 346	10	0.018	5	29
	1 1/2	1/2	15	721 901 355	10	0.033	13	30
	1 1/2	3/4	15	721 901 354	10	0.034	10	30
*	1 1/2	1	15	721 901 353	10	0.038	6	30
*	1 1/2	1 1/4	15	721 901 352	10	0.018	2	30
	2	3/4	15	721 901 361	10	0.060	16	37
	2	1	15	721 901 360	10	0.063	13	37
	2	1 1/4	15	721 901 359	10	0.070	8	37
	2	1 1/2	15	721 901 358	10	0.051	6	37
	2 1/2	2	15	721 901 364	10	0.094	8	45
	3	1	15	721 901 374	10	0.178	3	50
	3	1 1/2	15	721 901 372	10	0.176	3	50
	3	2	15	721 901 371	10	0.178	3	50
	3	2 1/2	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

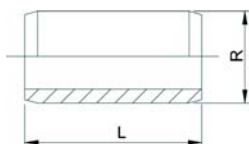


Reducing bush long pattern PVC-U Inch BS

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



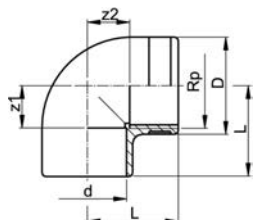
Barrel nipple PVC-U Inch BS

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)
	3/8	16	721 901 905	0	0.002	29
	1/2	16	721 901 906	0	0.004	33
	3/4	16	721 901 907	0	0.008	39
	1	16	721 901 908	0	0.015	45
	1 1/4	16	721 901 909	0	0.027	54
	1 1/2	16	721 901 910	0	0.050	60
	2	16	721 901 911	0	0.098	72
75	2 1/2	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

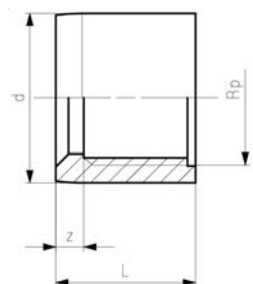


Elbow 90° PVC-U Inch BS Rp

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	d	Rp	PN	Code	SP	Weight	z1	z2	D	L
(inch)	(inch)	(inch)	(bar)			(kg)	(mm)	(mm)	(mm)	(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	Rp	PN	Code	SP	Weight	z	L
(inch)	(inch)	(bar)			(kg)	(mm)	(mm)
½	¾	15	721 901 534	10	0.003	3	18
¾	½	15	721 901 537	10	0.007	5	21
1	¾	15	721 901 541	10	0.011	4	24
1	½	15	721 901 542	10	0.017	8	24



Tee 90° PVC-U Inch BS Rp

Model:

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

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



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)
1/4	3/8	3/8	15	721 911 555	0	0.013	36	21	27
3/8	1/2	1/2	15	721 911 556	10	0.019	43	28	32
1/2	3/4	3/4	15	721 911 557	10	0.019	48	31	36
3/4	1	1	15	721 911 558	10	0.040	55	35	46

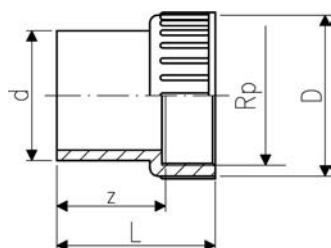


Adaptor socket PVC-U Inch BS Rp

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

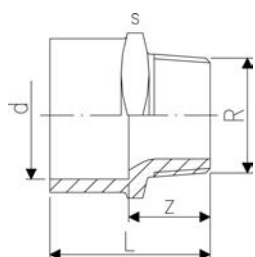


Adaptor bush equal PVC-U Inch BS Rp

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

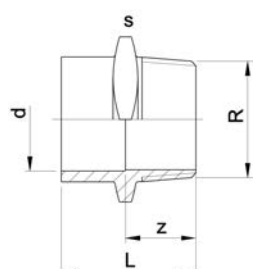


Adaptor bush equal PVC-U Inch BS R

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)
¾	¾	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

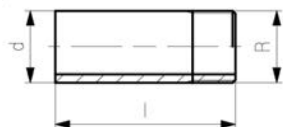


Adaptor bush reducing PVC-U BS R

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)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)	s (mm)
½	¾	½	15	721 911 737	100	0.050	22	40	36
¾	1	1 ¼	15	721 911 741	70	0.034	27	48	46
1	1 ¼	1 ¼	15	721 911 746	70	0.052	29	53	55
1 ¼	1 ½	1 ¼	15	721 911 752	60	0.060	29	58	65
1 ½	1	1 ½	15	721 911 758	5	0.071	34	64	80

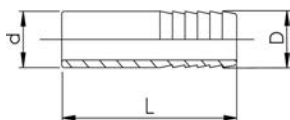


Adaptor nipple PVC-U Inch BS R

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	R	PN	Code	Weight	L
(inch)	(inch)	(bar)		(kg)	(mm)
3/8	3/8	15	721 913 905	0.007	43
1/2	1/2	15	721 913 906	0.013	50
3/4	3/4	15	721 913 907	0.022	56
1	1	15	721 913 908	0.034	63
1 1/4	1 1/4	15	721 913 909	0.060	75
1 1/2	1 1/2	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



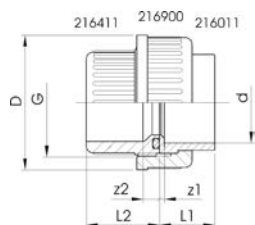
Hose connector PVC-U Inch BS

Model:

- With solvent cement spigot and parallel hose connection

d	PN	Code	SP	Weight	D	L
(inch)	(bar)			(kg)	(mm)	(mm)
3/4	15	721 961 404	10	0.005	12	51

Unions



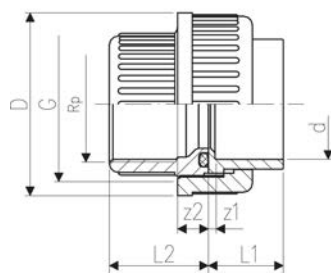
Union for solvent cement jointing PVC-U Inch BS

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	Size	PN	d	EPDM Code	SP	Weight	FKM Code	SP	Weight
(mm)	(inch)	(bar)	(inch)			(kg)			(kg)
	3/8	15	3/8	721 511 105	10	0.025	721 511 130		0.025
	1/2	15	1/2	721 511 106	10	0.040	721 511 131	10	0.040
	3/4	15	3/4	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 1/4	15	1 1/4	721 511 109	10	0.108	721 511 134	5	0.133
	1 1/2	15	1 1/2	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 1/2	10	2 1/2	721 510 112	2	0.614	721 510 137	2	0.621

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



Union end PVC-U Inch BS

Model:

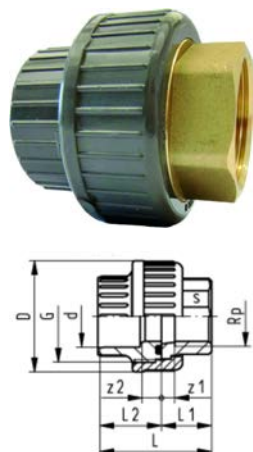
- Solvent cement socket BS inch

d (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	D1 (mm)	L (mm)
¾	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	20	0.269	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



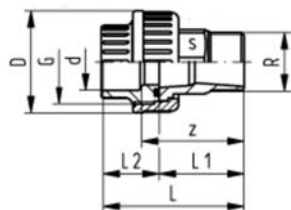
Adaptor union PVC-U/brass Inch BS Rp

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	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
52	150	121	Tr 128x5	69	95	18	19



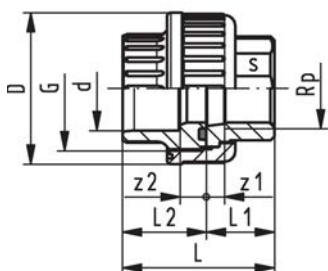
Adaptor union PVC-U/brass Inch BS R

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	d	PN*	Code	SP	Weight
	(inch)	(inch)	(bar)			(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	3	3	9	721 551 913	1	2.788

L	L2	L1	D	G	s	z
(mm)	(mm)	(mm)	(mm)	(inch)	(mm)	(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
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	Thread Type	Size	PN	d	Code	SP	Weight
(mm)		(inch)	(bar)	(inch)			(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
	Rp	3	9	3	721 531 313	2	1.740

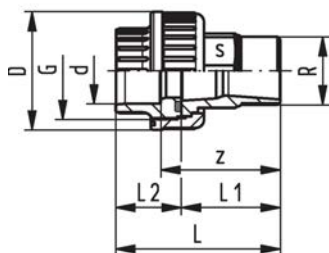
G	L2	s	z1	z2	L1	D	L
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
1	26	25	9	10	22	43	48
1 1/4	29	31	7	10	22	51	51
1 1/2	33	38	9	10	26	58	58
2	39	48	12	12	31	72	69
2 1/4	46	54	14	14	33	83	78
2 3/4	58	67	11	18	35	100	91
Tr 128x5	69	96	15	19	45	150	114



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



Thread Type	Size (inch)	PN (bar)	d (inch)	Code	SP	Weight (kg)
R	1/2	15	1/2	721 531 806	10	0.156
R	3/4	15	3/4	721 531 807	5	0.230
R	1	15	1	721 531 808	5	0.330
R	1 1/4	15	1 1/4	721 531 809	2	0.480
R	1 1/2	15	1 1/2	721 531 810	2	0.683
R	2	15	2	721 531 811	8	1.082
R	3	9	3	721 531 813	1	1.891

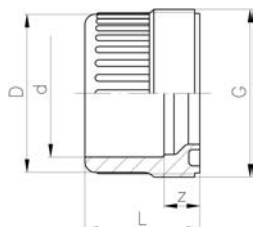
D (mm)	L1 (mm)	L2 (mm)	L (mm)	s (mm)	z (mm)	G (inch)
43	40	26	66	25	50	1
51	43	29	72	31	53	1 1/4
58	48	33	80	38	58	1 1/2
72	57	39	95	48	69	2
83	59	46	104	54	73	2 1/4
100	62	58	118	67	80	2 3/4
150	80	69	149	96	99	Tr 128x5



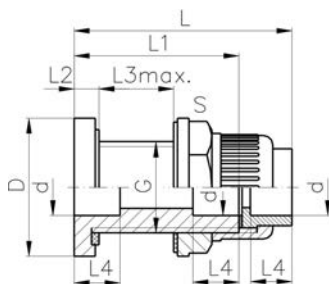
Union bush PVC-U Inch BS

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	3/8	721 841 105	10	0.010	8	24	24	3/4"
15	1/2	721 841 106	10	0.012	9	29	26	1"
15	3/4	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 1/4	721 841 109	10	0.056	10	52	39	2"
15	1 1/2	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



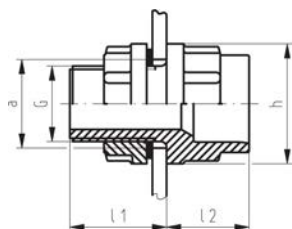
Tank adaptor for fix position stop PVC-U Inch BS

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	1 1/4"	50	43
70	103	75	12	33	22	1 1/2"	60	49
95	111	78	12	32	26	2"	80	61
95	119	82	13	32	31	2 1/4"	80	67
115	131	87	13	33	38	2 3/4"	95	83



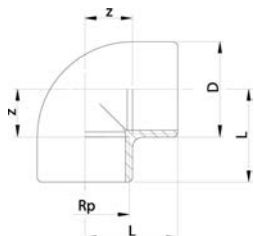
Tank adaptor for adjustable stop PVC-U Inch BS

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

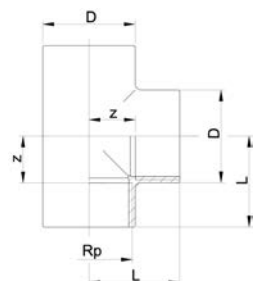


Elbow 90° PVC-U Rp

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	3/8	10	721 101 605	10	0.013	9	23	23
Rp	1/2	10	721 101 606	10	0.017	12	27	27
Rp	3/4	10	721 101 607	10	0.029	15	33	33
Rp	1	10	721 101 608	10	0.042	19	39	39
Rp	1 1/4	10	721 101 609	10	0.070	27	48	49
Rp	1 1/2	10	721 101 610	5	0.178	35	61	59
Rp	2	10	721 101 611	5	0.322	44	75	72

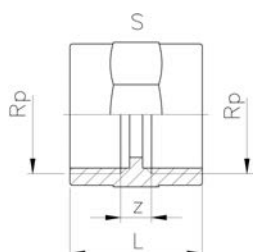


Tee 90° equal PVC-U Rp

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	3/8	10	721 201 605	10	0.016	9	23	23
Rp	1/2	10	721 201 606	10	0.027	12	28	27
Rp	3/4	10	721 201 607	10	0.039	15	33	33
Rp	1	10	721 201 608	5	0.072	19	41	39
Rp	1 1/4	10	721 201 609	100	0.146	27	50	49
Rp	1 1/2	10	721 201 610	10	0.267	36	62	60
Rp	2	10	721 201 611	10	0.485	44	77	72



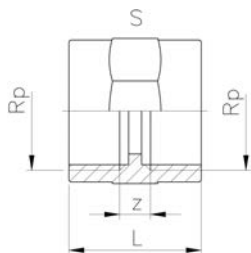
Socket PVC-U Rp

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	1/4	10	721 910 604	10	0.010	7	27	22
Rp	3/8	10	721 910 605	10	0.015	7	29	27
Rp	1/2	10	721 910 606	10	0.024	9	35	32
Rp	3/4	10	721 910 607	10	0.029	9	39	36

table continued on the next page



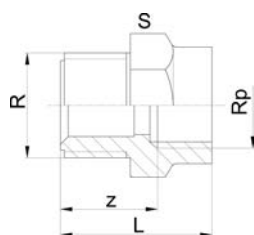
Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)	s (mm)
Rp	1	10	721 910 608	10	0.053	11	45	46
Rp	1 ¼	10	721 910 609	10	0.076	11	49	55
Rp	1 ½	10	721 910 610	10	0.106	11	49	65
Rp	2	10	721 910 611	5	0.180	11	57	80



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



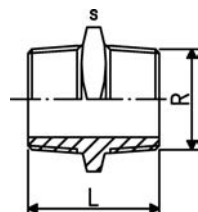
d1	d2	PN	Code	SP	Weight	z	L	s
(inch)	(inch)	(bar)			(kg)	(mm)	(mm)	(mm)
½	¾	10	721 910 834	10	0.014	25	36	27
¾	1	10	721 910 837	10	0.021	25	39	32
1	1 ½	10	721 910 842	10	0.029	31	45	32
1	¾	10	721 910 841	10	0.031	29	45	36
1 ¼	1	10	721 910 846	10	0.050	32	50	46
1 ½	1 ¼	10	721 910 852	10	0.065	35	55	55
2	1 ½	10	721 910 858	5	0.127	45	65	65



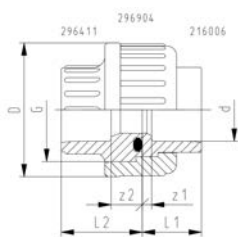
Threaded nipple R PVC-U

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	¾	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

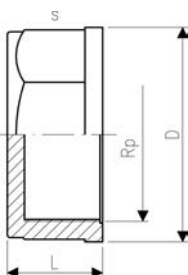


Thread union PVC-U Rp Rp

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	1/4	10	721 510 604	10	0.019	3/8	3	12	31	22	15
Rp	3/8	10	721 510 605	10	0.027	1/2	3	13	35	24	17
Rp	1/2	10	721 510 606	10	0.042	1	3	13	43	26	19
Rp	3/4	10	721 510 607	10	0.065	1 1/4	3	14	51	29	22
Rp	1 1/4	10	721 510 609	10	0.160	2	3	19	72	38	29
Rp	1 1/2	10	721 510 610	2	0.220	2 1/4	3	26	83	45	34
Rp	1	10	721 510 608	10	0.093	1 1/2	3	15	58	32	25
Rp	2	10	721 510 611	5	0.415	2 3/4	3	33	100	56	41

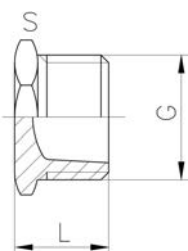


Cap PVC-U Rp

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	3/8	10	721 960 605	10	0.012	31	19	27
Rp	1/2	10	721 960 606	10	0.018	37	21	32
Rp	3/4	10	721 960 607	10	0.024	42	24	36
Rp	1	10	721 960 608	10	0.040	50	26	46
Rp	1 1/4	10	721 960 609	10	0.060	60	29	55
Rp	1 1/2	10	721 960 610	10	0.072	65	31	60
Rp	2	10	721 960 611	5	0.127	81	36	75

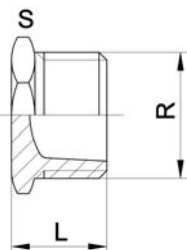


Plug PVC-U G

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	3/8	10	721 960 905	10	0.005	21	22
G	1/2	10	721 960 906	10	0.010	25	27
G	3/4	10	721 960 907	10	0.018	29	36
G	1	10	721 960 908	10	0.029	32	41
G	1 1/4	10	721 960 909	10	0.048	36	50
G	1 1/2	10	721 960 910	10	0.070	37	60
G	2	10	721 960 911	5	0.120	42	75



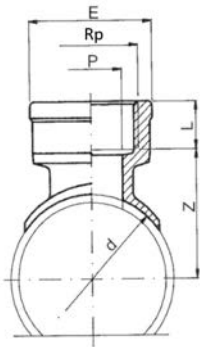
Plug PVC-U R

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	$\frac{3}{8}$	10	721 961 905	10	0.006	21	22
R	$\frac{1}{2}$	10	721 961 906	10	0.011	25	27
R	$\frac{3}{4}$	10	721 961 907	10	0.020	29	36
R	1	10	721 961 908	10	0.030	32	41
R	1 $\frac{1}{4}$	10	721 961 909	10	0.048	36	50
R	1 $\frac{1}{2}$	10	721 961 910	10	0.071	37	60
R	2	10	721 961 911	5	0.119	42	75

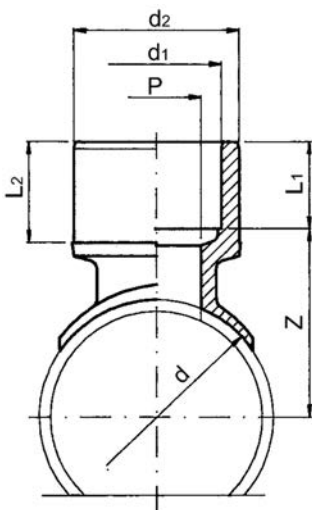
Saddles



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	1/4	10	DV0DEF32Z	15	150	0.010	11	24.2	12.9	28.9
40	3/8	10	DV0DEF40A	15	150	0.009	11	24.2	14.0	32.0
50	1/2	10	DV0DEF50Z	15	150	0.011	11	24.2	12.9	37.9
50	3/8	10	DV0DEF50A	15	150	0.010	11	24.2	14.0	37.0
50	1/2	10	DV0DEF50B	15	150	0.015	14	30.0	15.0	42.0
50	3/4	10	DV0DEF50C	10	100	0.023	19	36.0	16.3	43.0
63	3/8	10	DV0DEF63A	15	150	0.009	11	24.2	14.0	43.5
63	1/2	10	DV0DEF63B	10	150	0.015	14	30.0	15.0	48.0
63	3/4	10	DV0DEF63C	10	100	0.020	19	36.0	16.3	49.0
75	3/8	10	DV0DEF75A	15	150	0.009	11	24.2	14.0	49.5
75	3/4	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	1/2	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 1/2	10	DV0DEF90F	1	24	0.090	38	64.0	21.4	66.0
110	1/2	10	DV0DEF91B	15	150	0.015	14	30.0	15.0	72.0

Saddle socket M/F PVC-U metric



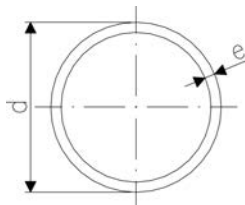
d (mm)	d1 (mm)	d2 (mm)	PN (bar)	Code	SP	GP	Weight (kg)	Z (mm)	L2 (mm)	P (mm)	L1 (mm)
50	20	25	10	DV0DEI50B	15	150	0.012	43	19	14	16
50	32	40	10	DV0DEI50D	10	50	0.035	45	26	24	22
63	20	25	10	DV0DEI63B	15	150	0.012	49	19	14	16
63	25	32	10	DV0DEI63C	10	100	0.021	50	22	19	19
63	32	40	10	DV0DEI63D	10	50	0.035	51	26	24	22
75	50	63	10	DV0DEI75F	1	12	0.101	63	38	38	31
90	50	63	10	DV0DEI90F	1	12	0.108	71	38	38	31
90	63	75	10	DV0DEI90G	1	12	0.140	70	44	48	38
110	40	50	10	DV0DEI91E	1	30	0.058	78	31	30	26
110	50	63	10	DV0DEI91F	1	12	0.105	81	38	38	31
110	63	75	10	DV0DEI91G	1	12	0.136	80	44	48	38
125	50	63	10	DV0DEI92F	1	12	0.105	88	38	38	31
140	40	50	10	DV0DEI93E	1	30	0.059	93	31	30	26
140	63	75	10	DV0DEI93G	1	30	0.136	95	44	48	38
160	63	75	10	DV0DEI94G	1	12	0.133	105	44	48	38
200	63	75	10	DV0DEI96G	1	12	0.133	125	44	48	38
225	63	75	10	DV0DEI97G	1	12	0.137	138	44	48	38

PVC-U Metric Pipes and Fittings



	Pipes	66
	Fittings	71
	PRO-FIT Fittings	79
	Adaptor fittings	82
	Flange adaptors/Fixed Face Flanges	89
	Unions	92
	Seals	110

Pipes

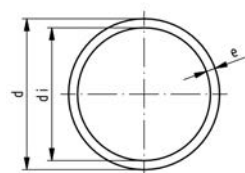


Pipe PVC-U grey SDR34.3 nominal pressure PN6

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 technical 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



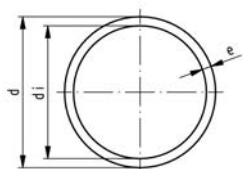
Pipe PVC-U grey Series S6,3 SDR13,6 nominal pressure PN16

Model:

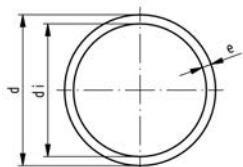
- Material: PVC-U
- Dimension: acc. to DIN 8061/62
- Colour: darkgrey RAL 7011
- Pipe length: 5000mm, with plain ends
- * SDR 11
- **Note 1:** DIBT Z-40.23-1 approval
- **Note 3:** DVGW approval + DIN plus
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentaion). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.
- Dimensions: BS EN 1452 Part 1 & 2 (formerly BS 3505)

Note	d (mm)	d (inch)	SDR	PN (bar)	Code	Weight (kg/m)	e (mm)	di (mm)
*	12.0		11	16	161 017 104	0.062	1.1	9.8
1, 3	16.0		13.6	16	161 017 105	0.091	1.2	13.6
1, 3	20.0		13.6	16	161 017 106	0.139	1.5	17.0
1, 3	25.0		13.6	16	161 017 107	0.215	1.9	21.2
1, 3	32.0		13.6	16	161 017 108	0.347	2.4	27.2
1, 3	40.0		13.6	16	161 017 109	0.533	3.0	34.0
1, 3	50.0		13.6	16	161 017 110	0.821	3.7	42.6
1, 3	63.0		13.6	16	161 017 111	1.310	4.7	53.6
*	75.0	2 1/2	13.6	16	161 017 112	1.850	5.6	58.2
1, 3	90.0		13.6	16	161 017 113	2.640	6.7	76.6
1, 3	110.0		13.6	16	161 017 114	3.910	8.1	93.8

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Note	d (mm)	d (inch)	SDR	PN (bar)	Code	Weight (kg/m)	e (mm)	di (mm)	
	1, 3	125.0		13.6	16	161 017 115	5.040	9.2	106.6
*	1, 3	140.0	4	13.6	16	161 017 116	6.030	10.3	119.4
	1, 3	160.0		13.6	16	161 017 117	8.230	11.8	136.4
		17.1	3/8		15	161 018 080	0.114	1.5	14.1
		21.3	1/2		15	161 018 082	0.161	1.7	17.9
		26.7	3/4		15	161 018 083	0.225	1.9	22.9
		33.4	1		15	161 018 084	0.325	2.2	29.0
		42.2	1 1/4		15	161 018 085	0.503	2.7	36.8
		48.3	1 1/2		15	161 018 086	0.659	3.1	42.1
		60.3	2		15	161 018 087	1.038	3.9	52.5
		88.9	3		15	161 018 088	2.245	5.7	77.5
		114.3	4		15	161 018 089	3.667	7.3	99.7

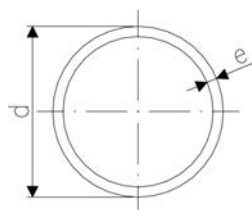


Pipe PVC-U grey Series S10 SDR21 nominal pressure PN10

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 technical documentation). 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

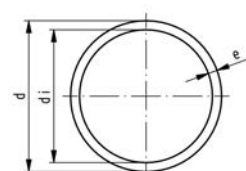


Pipe PVC-U grey SDR51 nominal pressure PN4

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 technical documentaion). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

Note	d	SDR	PN	Code	Weight	e	
	(mm)		(bar)		(kg/m)	(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

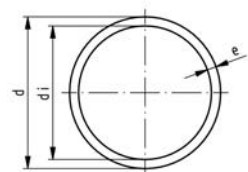


Pipe PVC-U transparent Series S6.25 SDR13.5 nominal pressure PN16

Model:

- Material: PVC-U
- Dimension: acc. to DIN 8062
- Colour: transparent - Transparency depends on outer diameter and wall thickness! Chemical and thermal 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 technical 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	SDR	PN	Code	Weight	di	e	
		(mm)		(bar)		(kg/m)	(mm)	(mm)	
* 20	20	*	12	11	16	192 017 104	0.062	10.0	1.1
* 20	20		16	13.6	16	192 017 105	0.091	13.6	1.2
* 20	20		20	13.6	16	192 017 106	0.139	17.0	1.5
* 20	20		25	13.6	16	192 017 107	0.215	21.2	1.9
* 10	10		32	13.6	16	192 017 108	0.347	27.2	2.4
* 5	5		40	13.6	16	192 017 109	0.533	34.0	3.0
* 5	5		50	13.6	16	192 017 110	0.821	42.6	3.7
* 3	3		63	13.6	16	192 017 111	1.310	53.6	4.7

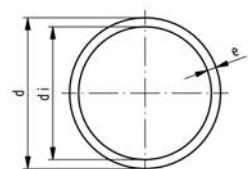


Pipe PVC-U transparent Series S10 SDR21 nominal pressure PN10

Model:

- Material: PVC-U
- Dimension: acc. to DIN 8062
- Colour: transparent - Transparency depends on outer diameter and wall thickness! Chemical and thermal 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 technical documentation). 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	SDR	Code	Weight	e	di
	(mm)			(kg/m)	(mm)	(mm)
* 20	*	25	17	192 017 082	0.177	1.5
* 10	*	32	17	192 017 083	0.280	1.9
* 10		40	21	192 017 084	0.355	1.9
* 5		50	21	192 017 085	0.560	2.4
* 3		63	21	192 017 086	0.866	3.0
* 3		75	21	192 017 087	1.240	3.6
* 2		90	21	192 017 088	1.770	4.3
* 1		110	21	192 017 089	2.650	5.3

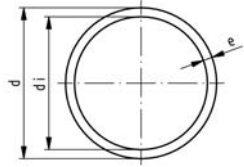


Pipe PVC-U transparent Series S16.7 SDR34.3 nominal pressure PN6

Model:

- Material: PVC-U
- Dimension: acc. to DIN 8062
- Colour: transparent - Transparency depends on outer diameter and wall thickness! Chemical and thermal 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 technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.
- * pcs in foil

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



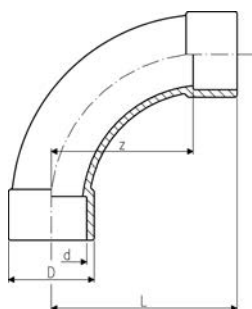
Pipe PVC-U transparent
Series S25 SDR51 nominal pressure PN4

Model:

- Material: PVC-U
- Dimension: acc. to DIN 8062
- Colour: transparent - Transparency depends on outer diameter and wall thickness! Chemical and thermal stress can cause discolouration
- Pipe length: 5000mm, with plain ends
- **Note 1:** Dimensional variations 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 technical documentation). 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	SDR	Code	Weight	e	di
		(mm)			(kg/m)	(mm)	(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

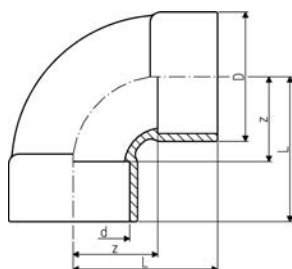
Fittings



Bend 90° PVC-U metric

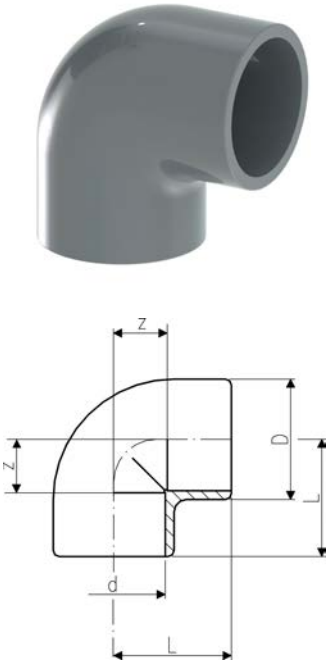
d (mm)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
20		16	721 000 106	10	0.029	40	27	56
25		16	721 000 107	10	0.049	50	33	69
32		16	721 000 108	10	0.074	64	38	86
40		16	721 000 109	30	0.121	80	47	106
50		16	721 000 110	5	0.298	100	61	131
63		16	721 000 111	6	0.516	126	76	164
75	2 ½	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	3	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



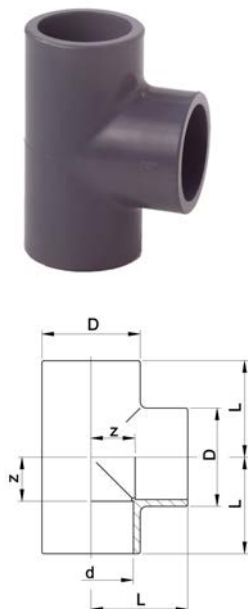
d (mm)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
6		16	721 100 101	10	0.004	4	11	16
8		16	721 100 102	10	0.004	5	13	17
10		16	721 100 103	10	0.004	6	14	18
12		16	721 100 104	10	0.006	7	17	19
16		16	721 100 105	10	0.007	9	21	23
20		16	721 100 106	10	0.012	11	25	27
25		16	721 100 107	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



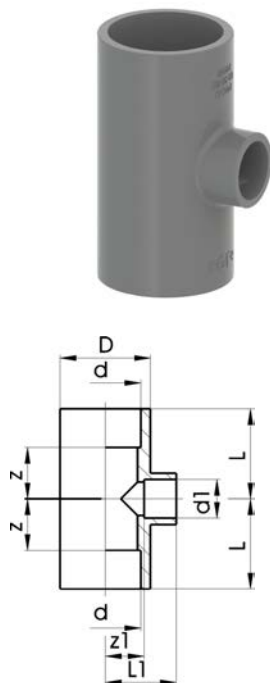
d (mm)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
16		16	721 150 105	10	0.008	5	21	19
20		16	721 150 106	10	0.011	5	25	21
25		16	721 150 107	10	0.017	6	31	25
32		16	721 150 108	10	0.021	8	38	30
40		16	721 150 109	10	0.048	10	47	36
50		16	721 150 110	5	0.086	12	59	43
63		16	721 150 111	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



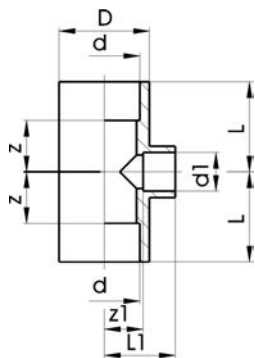
d (mm)	d (inch)	PN (bar)	Size (inch)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
6		16		721 200 101	10	0.004	4	11	16
8		16		721 200 102	10	0.008	5	13	17
10		16		721 200 103	10	0.008	6	16	18
12		16		721 200 104	10	0.011	7	19	19
16		16		721 200 105	10	0.011	9	21	23
20		16		721 200 106	10	0.019	11	25	27
25		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

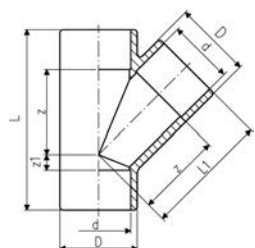
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d	d1	PN	Size	Code	SP	Weight	z	z1	D	L	L1
(mm)	(mm)	(bar)	(inch)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
140	75	16	5	721 200 149	1	3.319	72	78	172	148	122
140	110	16	5	721 200 150	1	3.422	72	74	172	148	135
160	110	16		721 200 152	1	4.305	81	81	192	167	142
200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



Tee 45° PVC-U metric

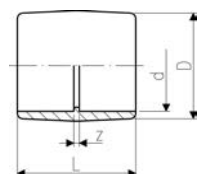


d	d	PN	Size	Code	SP	Weight	z	z1	D	L	L1
(mm)	(inch)	(bar)	(inch)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
10		10		721 250 103	100	0.013	18	4	16	46	30
12		10		721 250 104	100	0.014	21	4	18	49	33
16		10		721 250 105	100	0.022	25	5	23	58	39
20		10		721 250 106	10	0.035	30	6	28	68	46
25		10		721 250 107	10	0.056	36	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
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



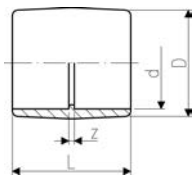
Socket equal PVC-U metric

¹ Socket d355 and d400 fabricated from pipe



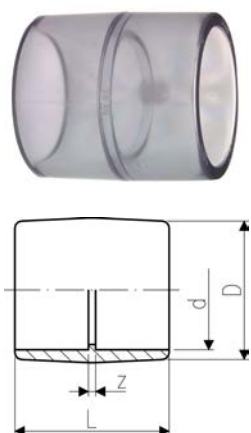
d	d	PN	Code	SP	Weight	z	D	L
(mm)	(inch)	(bar)			(kg)	(mm)	(mm)	(mm)
6		16	721 910 101	10	0.004	3	12	27
8		16	721 910 102	10	0.005	3	14	27
10		16	721 910 103	1	0.004	3	16	27
12		16	721 910 104	1	0.004	3	19	27
16		16	721 910 105	10	0.006	3	22	31
20		16	721 910 106	10	0.011	3	26	35
25		16	721 910 107	10	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

table continued on the next page



	d (mm)	d (inch)	PN (bar)	Code	SP Weight (kg)	z (mm)	D (mm)	L (mm)
	110		16	721 910 114	6	0.554	6	128
	125		16	721 910 115	3	0.825	7	142
	140	5	16	721 910 116	2	1.118	7	162
	160		16	721 910 117	2	1.540	8	183
	200		10	721 910 119	1	2.559	9	221
	225		10	721 910 120	2	3.519	10	253
	250		10	721 910 121	1	5.394	16	284
	280		10	721 910 122	1	8.312	16	321
	315		6	721 910 123	1	10.388	16	356
1	355		6	721 910 124		10.706	68	377
1	400		6	721 910 125		11.326	73	425

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
20	16	752 910 106	1	0.012	3	27
25	16	752 910 107	1	0.016	3	32
32	16	752 910 108	1	0.027	3	40
40	16	752 910 109	1	0.061	3	52
50	16	752 910 110	1	0.068	3	60
63	16	752 910 111	5	0.115	3	75

Barrel nipple PVC-U metric

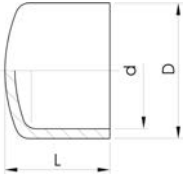
Model:

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



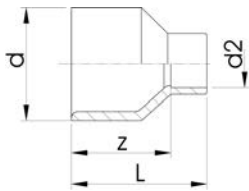
d (mm)	d (inch)	PN (bar)	Code	Weight (kg)	L (mm)
16		16	721 900 905	0.002	28
20		16	721 900 906	0.005	32
25		16	721 900 907	0.009	38
32		16	721 900 908	0.015	44
40		16	721 900 909	0.027	52
50		16	721 900 910	0.048	62
63		16	721 900 911	0.092	76
75	2 1/2	16	721 900 912	0.156	88
90		16	721 900 913	0.260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

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

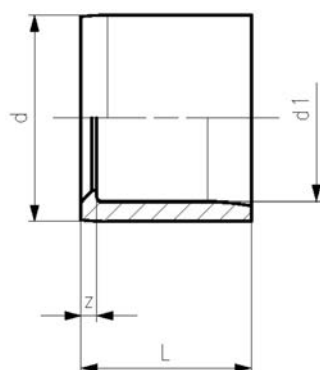
Reducing bush long PVC-U metric



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



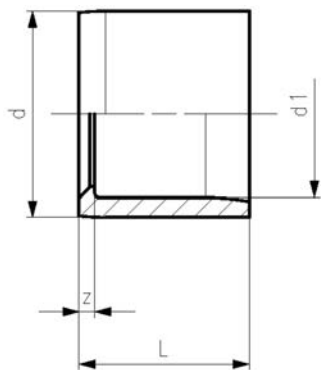
Reducing bush short PVC-U metric

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
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

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d	d1	PN	Size	Code	SP	Weight	z	L
(mm)	(mm)	(bar)	(inch)			(kg)	(mm)	(mm)
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

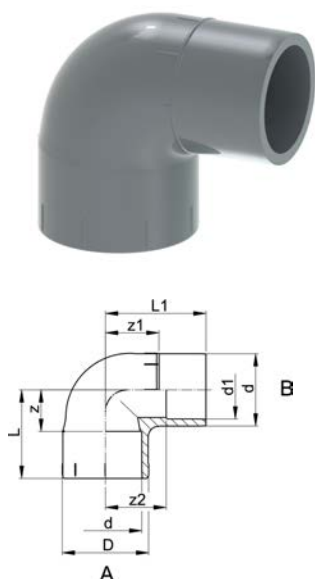
PRO-FIT Fittings

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	d1	PN	Code	SP	Weight	z	z1	z2	D	L	L1
(mm)	(mm)	(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(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

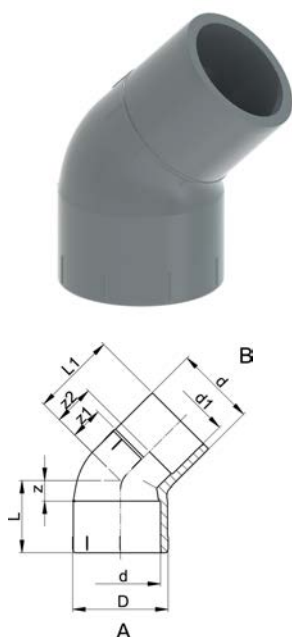


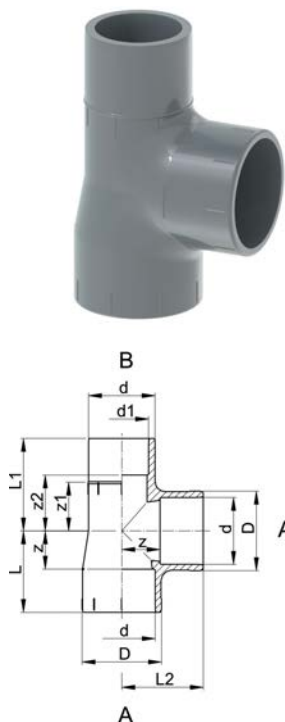
PRO-FIT elbow 45° PVC-U metric

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	d1	PN	Code	SP	Weight	z	z1	z2	D	L	L1
(mm)	(mm)	(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(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



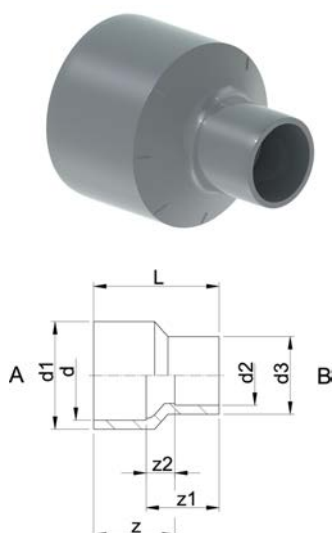


PRO-FIT tee 90° equal PVC-U metric

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

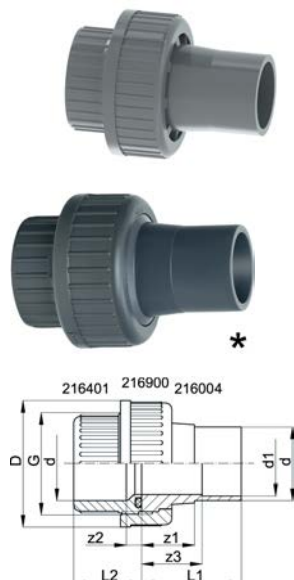


PRO-FIT reducing bush PVC-U metric

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



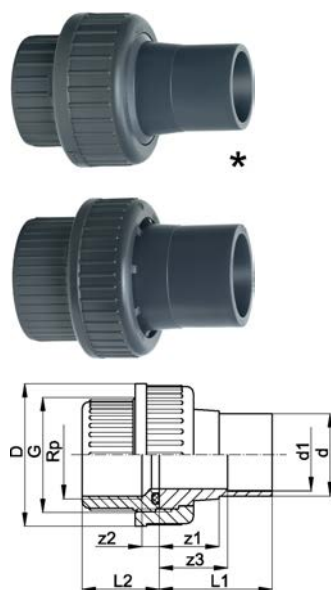
PRO-FIT union PVC-U metric

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

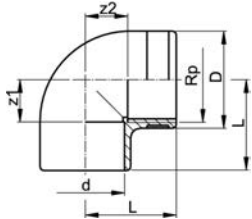
Model:

- 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	¾	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

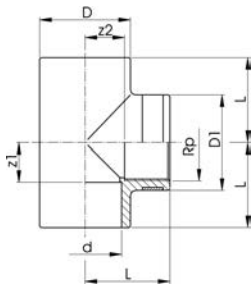


Elbow 90° PVC-U metric Rp

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	1/4	16	721 100 204	10	0.010	7	7	20	19
16	3/8	16	721 100 205	10	0.015	9	9	25	23
20	1/2	16	721 100 206	10	0.023	13	11	30	27
25	3/4	16	721 100 207	10	0.035	16	15	35	33
32	1	16	721 100 208	10	0.060	19	19	45	39
40	1 1/4	16	721 100 209	10	0.122	23	27	55	50
50	1 1/2	16	721 100 210	5	0.187	27	36	62	58
63	2	16	721 100 211	10	0.324	33	46	75	73

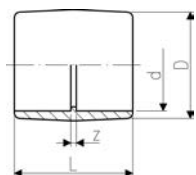


Tee 90° PVC-U metric Rp

Model:

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

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



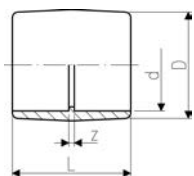
Adaptor socket PVC-U metric Inch/BS

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	3/8	16	721 913 105	10	0.010	5	23	35
20	1/2	16	721 913 106	10	0.012	5	27	38
25	3/4	16	721 913 107	10	0.020	5	33	45
32	1	16	721 913 108	10	0.031	5	41	51
40	1 1/4	16	721 913 109	10	0.054	5	51	60

table continued on the next page



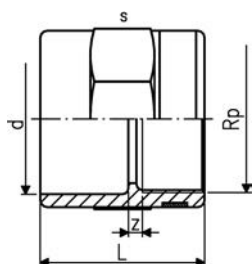
d (mm)	d (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
50	1 1/2	16	721 913 110	10	0.074	4	59	65
63	2	16	721 913 111	5	0.155	5	75	79
90	3	16	721 913 113	10	0.340	6	104	108
110	4	16	721 913 115	5	0.488	4	128	128



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



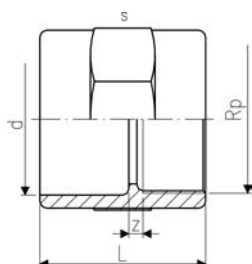
d (mm)	Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)	s (mm)
12	Rp	1/4	16	721 910 204	10	0.010	4	27	22
16	Rp	3/8	16	721 910 205	10	0.016	5	31	27
20	Rp	1/2	16	721 910 206	10	0.025	5	36	32
25	Rp	3/4	16	721 910 207	10	0.032	5	40	36
32	Rp	1	16	721 910 208	10	0.057	5	45	46
40	Rp	1 1/4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



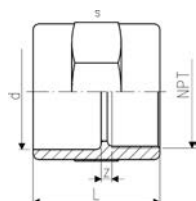
Adaptor socket PVC-U metric Rp

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 1/2	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

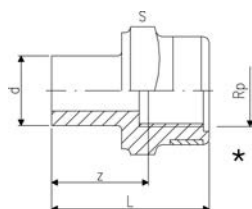


Adaptor socket PVC-U metric NPT

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	Thread Type	Size	NPT	PN	Code	SP	Weight	z	L	s
(mm)		(inch)	(inch)	(bar)			(kg)	(mm)	(mm)	(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

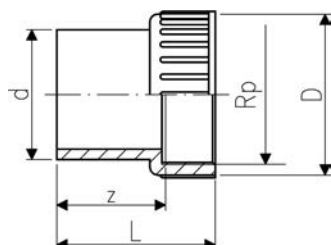


Reducing bush PVC-U metric Rp

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

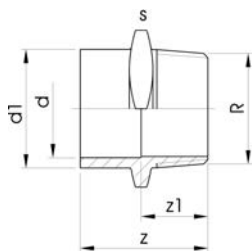


Adaptor bush equal PVC-U metric Rp

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

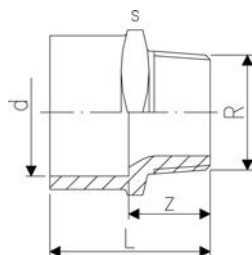


Adaptor socket nipple PVC-U metric R

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	3/8	Rp	3/8	16	721 910 555	10	0.010	35	23	27
16	20	1/2	Rp	1/2	16	721 910 556	10	0.016	42	28	32
20	25	3/4	Rp	3/4	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 1/4	Rp	1 1/4	16	721 910 559	10	0.061	60	38	55
40	50	1 1/2	Rp	1 1/2	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

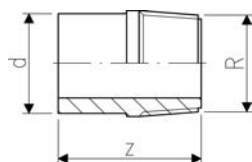


Adaptor bush equal PVC-U metric R

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)
*	3/8	R	3/8	16	721 910 705	10	0.011	20	34	27
*	1/2	R	1/2	20	721 910 706	10	0.018	24	40	32
*	3/4	R	3/4	25	721 910 707	10	0.025	25	44	36
*	1	R	1	32	721 910 708	10	0.039	28	50	46
*	1 1/4	R	1 1/4	40	721 910 709	10	0.061	31	57	55
*	1 1/2	R	1 1/2	50	721 910 710	10	0.092	32	63	65
*	2	R	2	63	721 910 711	5	0.161	38	76	80
*	2 1/2	R	2 1/2	75	721 910 712	6	0.227	42	86	90
	3	R	3	90	721 910 713	5	0.389	46	97	110
	4	R	4	110	721 910 714	5	0.572	53	114	130



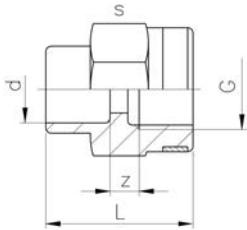
Adaptor nipple PVC-U metric R

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	3/8	R	10	721 913 505	10	0.006	31
20	1/2	R	10	721 913 506	10	0.010	35
25	3/4	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

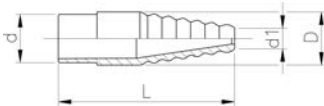


Model:

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

Hose connector PVC-U metric



Model:

- With solvent cement spigot metric and tapered hose connection

d	PN	Code	SP	Weight	d1	D	L
(mm)	(bar)			(kg)	(mm)	(mm)	(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	PN	Code	SP	Weight	D	L
(mm)	(bar)			(kg)	(mm)	(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



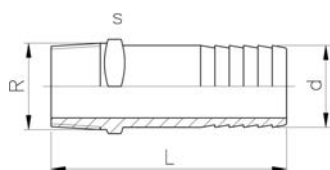
Hose connector PVC-U R

Model:

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

R	PN	Code	SP	Weight	D	L	s
(inch)	(bar)			(kg)	(mm)	(mm)	(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:

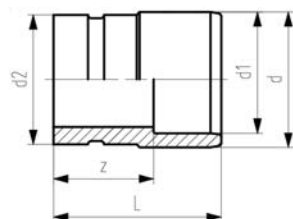
- With taper male thread R
- With parallel hose connector
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

Size (inch)	Thread Type	Code	SP	Weight (kg)	s (mm)	d (mm)	L (mm)
1/2	R	721 961 706	10	0.012	22	14	70
3/4	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 1/2	1 1/2	1 1/2	10	721 910 090	50	0.150	71	45
63	50	2	2	2	10	721 910 091	50	0.200	78	47
75	63	2 1/2	2 1/2	2 1/2	10	721 910 092	50	0.250	84	46

Flange adaptors/Fixed Face Flanges



Flange adaptor PVC-U

Combined jointing face flat and serrated metric

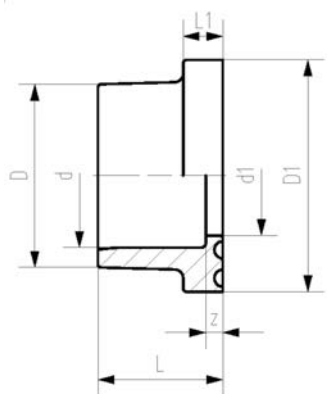
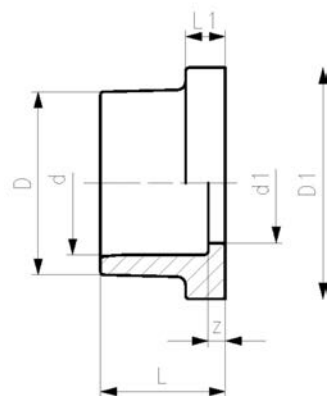
Model:

- 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 counterpart flange adaptor code no. 721 810 105-123
- Gasket: flat gasket EPDM code no. 748 400 306-323
- Combination with flanges (metric & ANSI): PVC-U, PP-V, PP-Steel

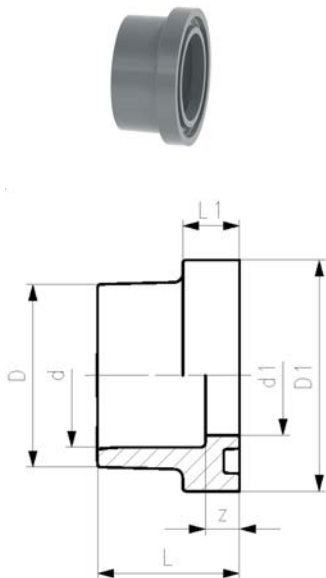
Note:

* 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	d	DN	PN	Code	SP	Weight	D	D1	d1	L	L1	z
(mm)	(inch)	(mm)	(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
16		10	16	721 800 105	10	0.006	22	29	13	17	6	3
* 20	½	15	16	721 800 106	10	0.009	27	34	16	19	6	3
	½	15	15	721 791 106	10	0.009	27	34	16	21	6	3
* 25	¾	20	16	721 800 107	10	0.015	33	41	21	22	7	3
	¾	20	15	721 791 107	10	0.014	33	41	21	24	7	3
* 32	1	25	16	721 800 108	10	0.024	41	50	28	25	7	3
	1	25	15	721 791 108	10	0.023	41	50	28	27	7	3
* 40	1 ¼	32	16	721 800 109	10	0.039	50	61	36	29	8	3
	1 ¼	32	15	721 791 109	10	0.035	50	61	36	32	8	3
* 50	1 ½	40	16	721 800 110	10	0.056	61	73	45	34	8	3
	1 ½	40	15	721 791 110	10	0.058	61	73	45	33	8	3
* 63	2	50	16	721 790 111	10	0.103	77	90	57	41	9	3
	2	50	15	721 791 111	5	0.107	77	91	56	40	9	3
* 75	2 ½	65	16	721 790 112	10	0.159	91	106	69	47	10	3
* 90	3	80	16	721 790 113	10	0.253	108	125	82	56	11	5
	3	80	15	721 791 113	20	0.269	108	125	82	56	11	5
		100	16	721 790 114	10	0.417	131	150	102	66	12	5
* 125	4	125	16	721 790 115	5	0.533	148	170	117	74	13	5
	4	100	15	721 791 115	10	0.422	136	155	108	69	12	5
* 140	5	125	16	721 790 116	6	0.725	165	188	132	81	14	5
* 160	6	150	16	721 790 117	2	1.093	188	213	152	91	16	5
	6	150	15	721 791 117	2	1.172	198	217	160	96	16	5
* 200		200	10	721 790 119	2	1.460	224	250	192	112	24	6
* 225	8	200	10	721 790 120	2	1.743	248	274	217	125	25	6
	8	200	9	721 791 120	2	2.028	248	274	210	122	20	6
* 250		250	10	721 790 121	1	2.203	274	303	240	140	23	9
* 280	10	250	10	721 790 122	1	2.930	308	329	270	151	23	5
	10	250	9	721 791 122	1	3.020	307	329	260	151	23	9
* 315		300	6	721 790 123	1	4.455	346	379	302	172	27	8
		350	6	721 790 124	1	5.963	384	430	341	194	32	10
	12	300	6	721 791 123	1	3.400	346	379	302	172	27	4
		400	6	721 790 125	1	9.041	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
		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
*	2	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
*	8	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**

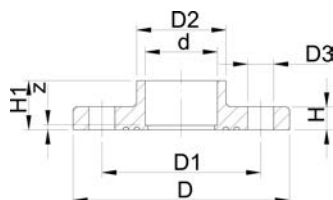
* Combined Flange, connecting dimensions EN1092 PN 10 and ANSI B 16.5 Class 150
d75 - d110: bolt hole as long hole version

AL: number of holes

	d	DN	PN	d	Type	Code	SP	Weight
	(mm)	(mm)	(bar)	(inch)				(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

table continued on the next page



d (mm)	D (mm)	D1 (mm)	D1 max. (mm)	D1 min. (mm)	D2 (mm)	D3 (mm)	z	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	18	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

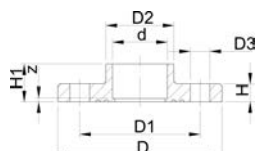


Full face flange PVC-U Inch BS Drilled to universal standard

Model:

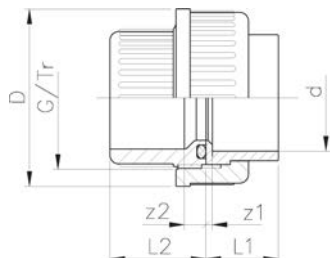
- In accordance with BS 10, DIN EN 1092 and ASME B 16.5
- Jointing face serrated
- Solvent cement socket BS inch
- It is recommended to use backing flanges in conjunction with all Full Face Flanges
- For pressure ratings over 2 bar backing flanges must be used
- All Full Face Flanges are manufactured with outside diameter to BS EN 1092

AL: number of holes



PN (bar)	d (inch)	DN (mm)	Code	SP	Weight (kg)	H (mm)	AL	D2 (mm)	D3 (mm)	H1 (mm)	D1 (mm)	z	D (mm)
15	½	15	721 733	100	0.083	10	4	27	15	21	67	3	95
15	¾	20	721 733 107	50	0.106	10	4	33	15	24	73	3	105
15	1	25	721 733 108	50	0.129	10	4	41	15	27	83	3	115
15	1 ¼	32	721 733 109	30	0.189	10	4	50	15	32	87	3	140
15	1 ½	40	721 733 110	30	0.236	10	4	61	15	33	98	3	150
15	2	50	721 733 111	18	0.309	10	4	77	18	40	114	3	165
15	3	80	721 733 113	8	0.540	12	4	108	18	56	146	5	200
15	4	100	721 733 114	4	0.889	17	8	136	18	69	178	5	220
15	6	150	721 733 117	2	2.022	22	8	198	22	96	235	5	285

Unions



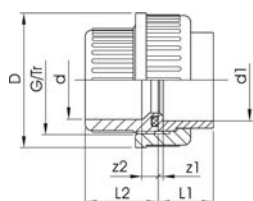
Union for solvent cement jointing PVC-U metric

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	721 510 128	10
12			16	721 510 104	10	721 510 129	10
* 16	3/8		16	721 510 105	10	721 510 130	10
* 20	1/2		16	721 510 106	10	721 510 131	10
* 25	3/4		16	721 510 107	10	721 510 132	10
* 32	1		16	721 510 108	10	721 510 133	10
* 40	1 1/4		16	721 510 109	10	721 510 134	10
* 50	1 1/2		16	721 510 110	5	721 510 135	2
* 63	2		16	721 510 111	5	721 510 136	5
* 75	2 1/2	2 1/2	10	721 510 112	2	721 510 137	2
90			10	721 510 313	2	721 510 338	2
110			10	721 510 114	1	721 510 139	1

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)

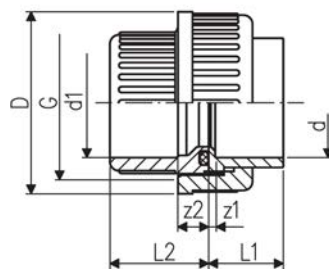
d (mm)	d1 (inch)	Size (inch)	PN (bar)	Code	SP Weight (kg)	G (inch)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)
16	3/8	3/8	16	721 514 105	10	0.022	3/8	3	10	35	22
20	1/2	1/2	16	721 514 106	10	0.042	1	3	10	43	25
25	3/4	3/4	16	721 514 107	10	0.065	1 1/4	3	10	51	28
32	1	1	16	721 514 108	10	0.103	1 1/2	3	10	58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



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)



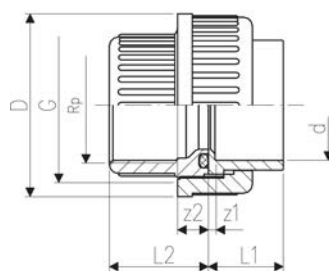
d	d1	Size	PN	Code	SP	Weight	G	z1	z2	D	L1	L2
(mm)	(inch)	(inch)	(bar)			(kg)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)
16	¾	¾	15	721 513 105	10	0.025	¾	3	8	35	17	24
20	½	½	15	721 513 106	10	0.040	1	3	9	43	19	26
25	¾	¾	15	721 513 107	10	0.065	1 ¼	3	9	51	22	29
32	1	1	15	721 513 108	10	0.090	1 ½	3	9	58	25	33
40	1 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



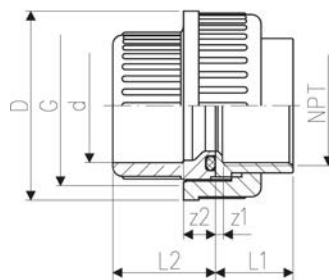
d	Thread Type	Size	PN	EPDM	SP	Weight	G	z1	z2	D	L1	L2
(mm)		(inch)	(bar)	Code		(kg)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)
12	Rp	¾	10	721 510 204	10	0.019	¾	3	12	31	15	22
16	Rp	¾	10	721 510 205	10	0.020	¾	3	13	35	17	24
20	Rp	½	10	721 510 206	10	0.040	1	3	13	43	19	26
25	Rp	¾	10	721 510 207	10	0.057	1 ¼	3	14	51	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



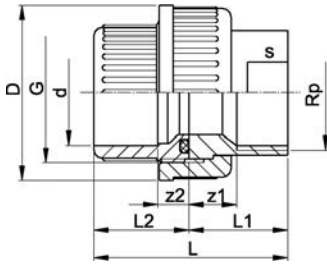
Adaptor union PVC-U metric NPT

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	Thread Type	Size	PN	EPDM	SP	Weight	G	z1	z2	D	L1	L2
(mm)		(inch)	(bar)	Code		(kg)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)
16	NPT	¾	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



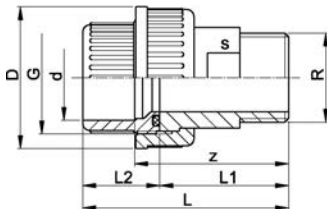
Adaptor union PVC-U/stainless steel metric Rp

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	¾	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 (mm)	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



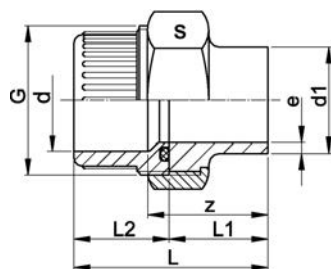
Adaptor union PVC-U/stainless steel metric R

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	¾	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 (mm)	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



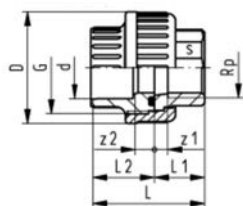
Adaptor union PVC-U/stainless steel metric Welding end

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



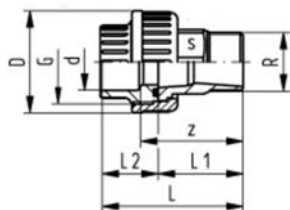
Adaptor union PVC-U/brass metric Rp

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	Thread Type	d	Size	PN	Code	SP	Weight	
(mm)		(inch)	(inch)	(bar)			(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	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	Tr 108x5
	90	150	121	52	69	95	18	Tr 128x5



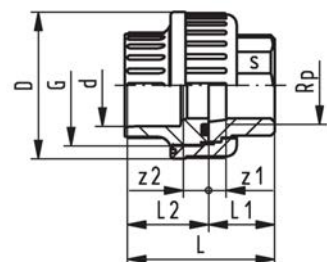
Adaptor union PVC-U/brass metric R

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	Thread Type	d	Size	PN	Code	SP	Weight
(mm)		(inch)	(inch)	(bar)			(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	D	L	L1	L2	z	G	s
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)	(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

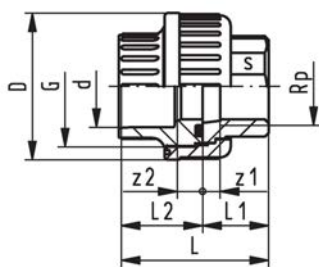
Model:

- 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	Thread Type	d	Size	PN	Code	SP	Weight	
(mm)		(inch)	(inch)	(bar)			(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	2 ½	10	721 530 312	2	1.008
90	Rp		3	10	721 530 313	2	1.350	

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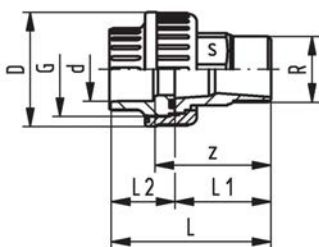
d	D	L	L1	L2	z1	z2	G	s
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)	(mm)
50	83	78	33	46	14	14	2 1/4	54
63	100	91	35	58	11	18	2 3/4	67
*	75	127	101	62	12	18	Tr 108x5	85
90	150	114	45	69	15	19	Tr 128x5	96



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	Thread Type	d	Size	PN	Code	SP	Weight
(mm)		(inch)	(inch)	(bar)			(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	2 ½	10	721 530 812	2	1.441
90	R		3	10	721 530 813	1	1.873

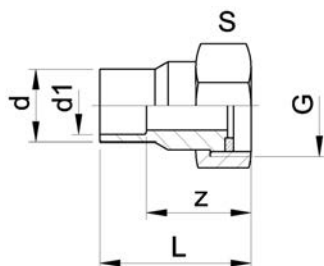
d	D	L	L1	L2	z	G	s
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)	(mm)
20	43	66	40	26	50	1	25
25	51	72	43	29	53	1 1/4	31
32	58	80	48	33	58	1 1/2	38
40	72	95	57	39	69	2	48
50	83	104	59	46	73	2 1/4	54
63	100	118	62	58	80	2 3/4	67
*	75	127	75	62	93	Tr 108x5	85
90	150	149	80	69	99	Tr 128x5	96



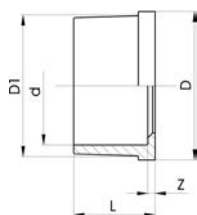
Tap connectors PVC-U/brass metric G

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	d1	Thread Type	Size	PN	Code	SP	Weight	z	L	s
(mm)	(mm)		(inch)	(bar)			(kg)	(mm)	(mm)	(mm)
16	12	G	1/2	16	721 550 305	10	0.031	22	34	24
20	16	G	3/4	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 suitable for Variable area flow meter

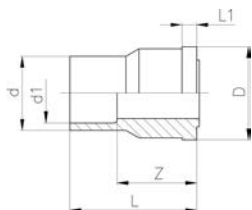
d	PN	Size	Code	SP	Weight	z	D	D1	L	
(mm)	(bar)	(inch)			(kg)	(mm)	(mm)	(mm)	(mm)	
10	16		721 500 103	10	0.004	3	20	18	15	
12	16		721 500 104	10	0.003	3	20	18	15	
16	16		721 500 105	10	0.003	3	24	22	17	
20	16		721 500 106	10	0.008	3	30	28	19	
25	16		721 500 107	10	0.014	3	39	36	22	
32	16		721 500 108	10	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

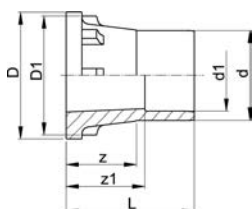
Union end PVC-U metric

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





Union end with spigot PVC-U metric

Model:

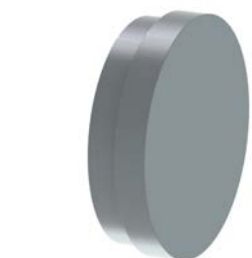
- Solvent cement spigot in combination with reducing socket metric
- Suitable for unions, tank connectors and diaphragm valves Type 514

	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

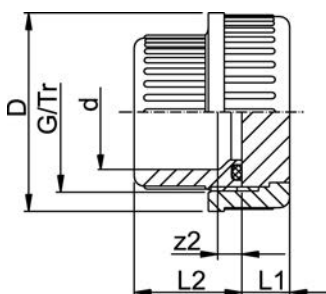


d (mm)	DN (mm)	PN (bar)	Inch (inch)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)
10/12		16	1/8	721 600 004	900	0.006	20	18	9	4
16	10	16	3/8	721 600 005	800	0.004	24	22	10	5
20	15	16	1/2	721 600 006	500	0.009	30	28	11	5
25	20	16	3/4	721 600 007	400	0.017	39	36	11	6
32	25	16	1	721 600 008	300	0.025	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

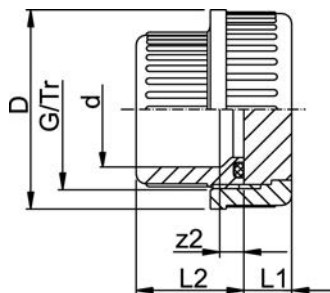
Model:

- 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	Size	PN	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(inch)	(bar)	Code		(kg)	Code		(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	z2	L2	D	L1	G/Tr
(mm)	(mm)	(mm)	(mm)	(mm)	(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	PN	Code	SP	Weight	z	D	D1	L
	(inch)	(bar)			(kg)	(mm)	(mm)	(mm)	(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

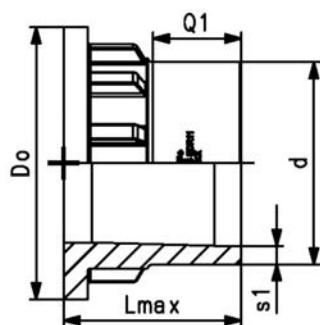
d	Do1	Do2	DN	PN	Code	Weight	L2	Lmax	z
(mm)	(mm)	(mm)	(mm)	(bar)		(kg)	(mm)	(mm)	(mm)
20	28	30	15	10	734 600 106	0.006	5	19	5
25	36	39	20	10	734 600 107	0.013	5	21	5
32	42	45	25	10	734 600 108	0.015	6	23	5
40	53	57	32	10	734 600 109	0.026	6	25	5
50	59	63	40	10	734 600 110	0.027	7	28	5
63	74	79	50	10	734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



ecoFIT Standard Union end long PE100 d20-110mm / SDR11

Model:

- Conventional butt-welding according to DVS 2207
- IR = Infrared- (IR Plus®) compatible.



d (mm)	DN (mm)	PN (bar)	FM	Code	Weight (kg)	Do (mm)	Lmax (mm)	Q1 (mm)	s1 (mm)
20	15	16	IR	753 508 616	0.006	30	67	52	1.9
25	20	16	IR	753 508 617	0.019	39	71	56	2.3
32	25	16	IR	753 508 618	0.027	45	73	55	2.9
40	32	16	IR	753 508 619	0.048	57	81	61	3.7
50	40	16	IR	753 508 620	0.069	63	87	66	4.6
63	50	16	IR	753 508 621	0.120	78	93	70	5.8

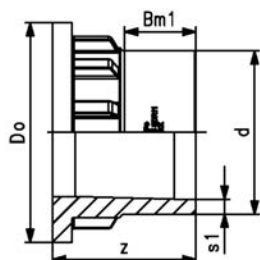


Union end PE100 S5/SDR11

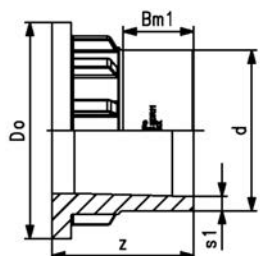
Model:

- Conventional butt-welding according to DVS 2207
- IR = Infrared- (IR Plus®) compatible.

*Only for variable area flow meters



d (mm)	DN (mm)	PN (bar)	FM	Code	Weight (kg)	Do (mm)	s1 (mm)	Z (mm)	Bm1 (mm)
75	65	10	IR	753 508 212	0.144	101.5	6.8	66	34
*	75	65	IR	700 246 420	0.300	101.0	6.8	66	34
90	80	10	IR	753 508 213	0.158	101.5	8.2	65	55
110	100	10	IR	753 508 214	0.230	121.0	10.0	65	55



Union end PE100 S8.3/SDR17.6

Model:

- IR = Infrared- (IR Plus®) compatible.
- Conventional butt-welding according to DVS 2207

d (mm)	DN (mm)	PN (bar)	SDR	FM	Code	Weight (kg)	Do (mm)	z (mm)	Bm1 (mm)	s1 (mm)
75	65	10	17	IR	753 508 112	0.125	101.5	66	34	4.5
90	80	10	17	IR	753 508 113	0.136	101.5	65	55	5.4
110	100	10	17	IR	753 508 114	0.190	121.0	65	55	6.7

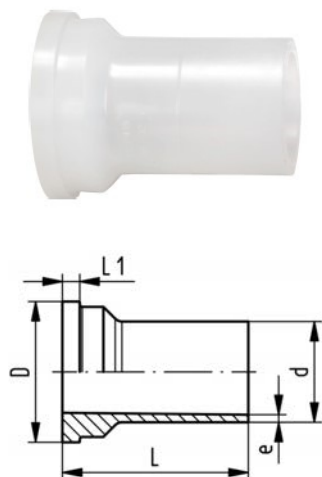


Spare parts for valve body type 514

Valve end with spigot

Model:

- Material: PVDF



d (mm)	DN (mm)	SDR	FM	PVDF Code	D (mm)	L (mm)	L1 (mm)	e (mm)
20	15	21	BCF, IR	735 608 606	30	53	5	1.9
25	20	21	BCF, IR	735 608 607	39	56	5	1.9
32	25	21	BCF, IR	735 608 608	45	59	6	2.4
40	32	21	BCF, IR	735 608 609	57	62	6	2.4
50	40	21	BCF, IR	735 608 610	63	65	7	3.0
63	50	21	BCF, IR	735 608 611	78	68	8	3.0
75	65	21	BCF, IR	735 608 612	101	66	9	3.6
90	80	21	BCF, IR	735 608 613	101	65	9	4.3
110	100	21	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	3/8	16	724 600 655	0.030	9	24	22	19	19
20	Rp	1/2	16	724 600 656	0.060	11	30	28	24	24
25	Rp	3/4	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 1/4	16	724 600 659	0.226	14	57	53	33	45
50	Rp	1 1/2	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

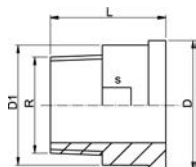
Model:

- 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	3/8	16	724 600 705	0.052	24	22	30	19
20	R	1/2	16	724 600 706	0.083	30	28	34	24
25	R	3/4	16	724 600 707	0.125	39	36	36	32

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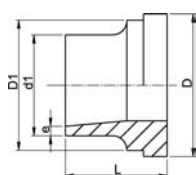


d	Thread Type	Size	PN	Code	Weight	D	D1	L	s
(mm)		(inch)	(bar)		(kg)	(mm)	(mm)	(mm)	(mm)
32	R	1	16	724 600 708	0.189	45	42	40	37
40	R	1 ¼	16	724 600 709	0.356	57	53	46	48
50	R	1 ½	16	724 600 710	0.407	63	59	48	54
63	R	2	16	724 600 711	0.668	78	74	55	69

Union end stainless steel Welding end

Model:

- Material: Stainless Steel 1.4404 (316L)

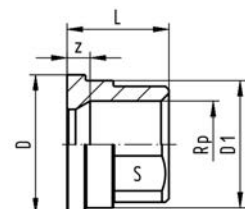


d	PN	d1	Code	Weight	D	D1	L	e
(mm)	(bar)	(mm)		(kg)	(mm)	(mm)	(mm)	(mm)
16	16	17	724 605 505	0.029	24	22	18	1.6
20	16	21	724 605 506	0.046	30	28	22	2.0
25	16	27	724 605 507	0.080	39	36	23	2.0
32	16	34	724 605 508	0.112	45	42	26	2.0
40	16	42	724 605 509	0.188	57	53	26	2.0
50	16	48	724 605 510	0.222	63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

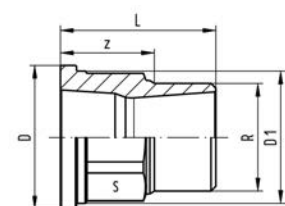


d	Thread Type	Size	PN	Code	SP	Weight	D	L	s	z	D1
(mm)		(inch)	(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
20	Rp	½	16	724 600 206	1	0.037	30	22	25	9	27
25	Rp	¾	16	724 600 207	0	0.072	39	22	31	7	36
32	Rp	1	16	724 600 208	120	0.088	44	26	38	9	41
40	Rp	1 ¼	16	724 600 209	0	0.172	56	31	48	12	52
50	Rp	1 ½	16	724 600 210	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

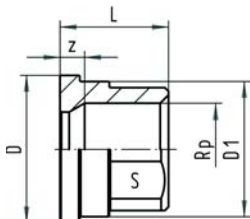
Union end malleable iron galvanized R

Model:

- Union End: Malleable iron with taper male thread R



d	Thread Type	Size	Code	SP	Weight	D	L	D1	z	s
(mm)		(inch)			(kg)	(mm)	(mm)	(mm)	(mm)	(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

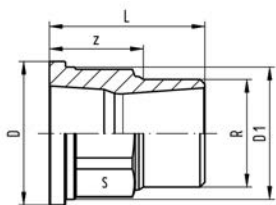


Union end brass Rp

Model:

- Union End: Brass with parallel female thread Rp

d	Thread Type	Size	Code	SP	Weight	L	s	D	D1	z
(mm)		(inch)			(kg)	(mm)	(mm)	(mm)	(mm)	(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

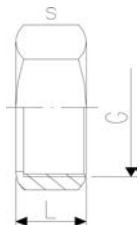


Union end brass R

Model:

- Union End: Brass with taper male thread R

d	Thread Type	Size	Code	SP	Weight	z	D1	D	s	L
(mm)		(inch)			(kg)	(mm)	(mm)	(mm)	(mm)	(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



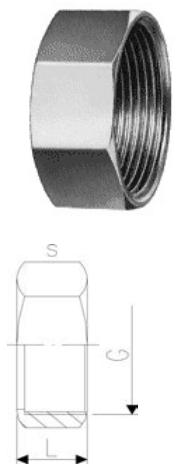
Union nut stainless steel 1.4404 (316L)

- * Octagon union nut

d	PN	Code	SP	Weight	G	closest	L	s
(mm)	(bar)			(kg)	(inch)	inch	(mm)	(mm)
						(inch)		
16	16	724 690 105	10	0.060	¾	¾	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	724 690 109	10	0.218	2	1 ¼	27	68
*	50	724 690 110	10	0.316	2 ¼	1 ½	31	74
*	63	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

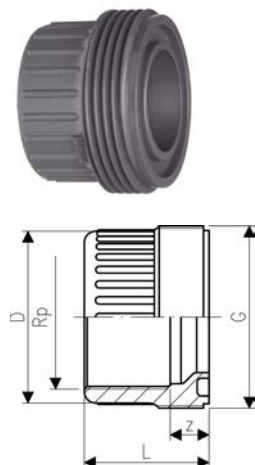


d (mm)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)	G/Tr (inch)
10		16	721 840 103	10	0.002	10	20	22	5/8
12		16	721 840 104	10	0.007	10	20	22	5/8
16		16	721 840 105	10	0.009	10	24	24	3/4
20		16	721 840 106	10	0.014	10	29	26	1
25		16	721 840 107	10	0.020	10	34	29	1 1/4
32		16	721 840 108	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

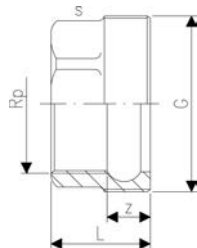
Union bush PVC-U Rp

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	¾	12	20	22
Rp	¾	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

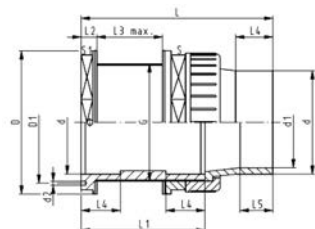


Union bush malleable iron galvanized Rp

Model:

- Parallel female thread Rp

d	Thread Type	Size	PN	Code	SP	Weight	G	z	s	L
(mm)		(inch)	(bar)			(kg)	(inch)	(mm)	(mm)	(mm)
20	Rp	¾	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

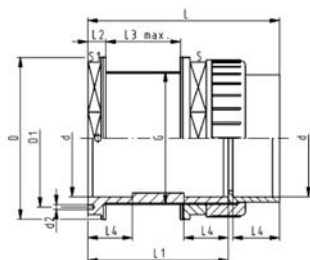
PVC-U, Union end with spigot / reducing socket metric

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	PN	d1	EPDM	SP	Weight
(mm)	(bar)	(mm)	Code		(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	L	D	L1	L5	L4	S1	L2	S	D1	Diameter of bore in tank side	L3 max	G	d2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)	(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



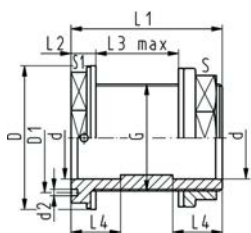
Tank adaptor for fix position stop PVC-U with O-Ring gasket

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

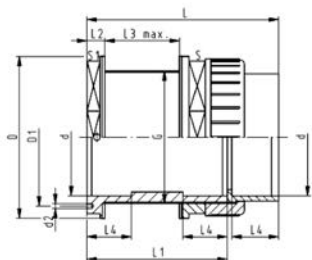
d (mm)	L3 max (mm)	Diameter of bore in tank side (mm)	D1 (mm)	S (mm)	D (mm)	L2 (mm)	S1 (mm)	L4 (mm)	L1 (mm)	d2 (mm)	G (inch)
16	28	28	29	32	44	11	40	14	58	5	¾
20	28	35	35	40	54	12	50	16	61	5	1
25	28	43	42	50	60	13	55	19	65	5	1 ¼
32	28	49	49	56	69	13	65	22	67	5	1 ½
40	29	61	59	69	84	13	80	26	72	5	2
50	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

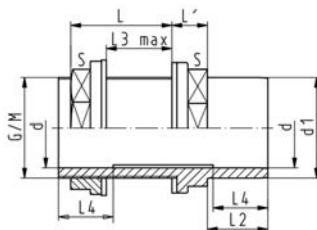
d (mm)	L (mm)	L2 (mm)	L1 (mm)	D (mm)	L3 max (mm)	Diameter of bore in tank side (mm)	S1 (mm)	L4 (mm)	d2 (mm)	D1 (mm)	S (mm)	G (inch)
16	77	11	58	44	19	28	40	14	5	29	32	¾
20	83	12	61	54	17	35	50	16	5	35	40	1
25	90	13	65	60	18	43	55	19	5	42	50	1 ¼
32	95	13	67	69	19	49	65	22	5	49	56	1 ½
40	104	13	72	84	16	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

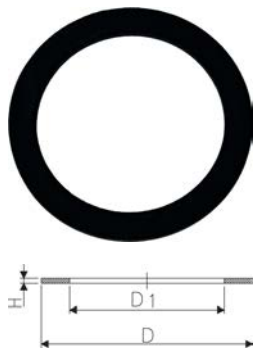


d (mm)	Size (inch)	d1 (mm)	Code	SP	Weight (kg)
20	¾	25	161 050 206	75	0.046
25	1	32	161 050 207	50	0.066
32	1 ¼	40	161 050 208	50	0.106
40	1 ¾	50	161 050 209	35	0.190
50	2	63	161 050 210	25	0.248
63	2 ½	75	161 050 211	15	0.352
75	3	90	161 050 212	20	0.539
90		110	161 050 213	10	1.083
110		125	161 050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

Seals



Flat gasket

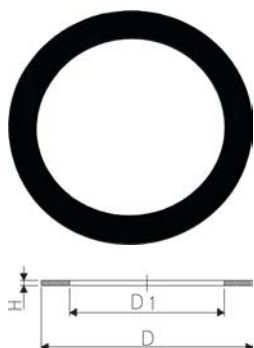
Model:

- 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
16	748 400 005	0.002	24	17	2
20	748 400 006	0.002	30	21	3

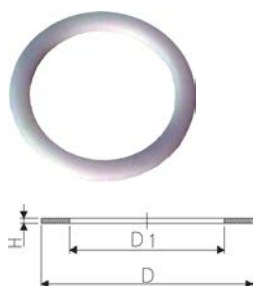


Flat Gasket inside the tank For tank adaptor type 050

Model:

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

d (mm)	Size (inch)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)	D (mm)	D1 (mm)	H (mm)
20	1	748 400 042	1	0.003	749 400 042	1	0.003	46	34	3
40	1 1/4				749 400 009	1	0.003	55	42	3
32	1 1/2	748 400 043	1	0.005	749 400 043	1	0.009	69	49	3
63	2				749 400 011	1	0.006	78	60	3
50	2 1/4	748 400 044	1	0.008	749 400 044	1	0.009	90	64	3
63	2 3/4	748 400 045	1	0.011	749 400 045	1	0.011	106	82	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





Ball Valves

115



Cone check valves

153



Wafer check valves

161



Diaphragm valves

164



Butterfly valves

169



Angle Seat Valves

178



Strainers

181



DN 15 - 50

Screen assemblies

183



Gauge Guards

184



Process control valves

185



Pressure regulating valves

190



Variable Area Flow Meters

199

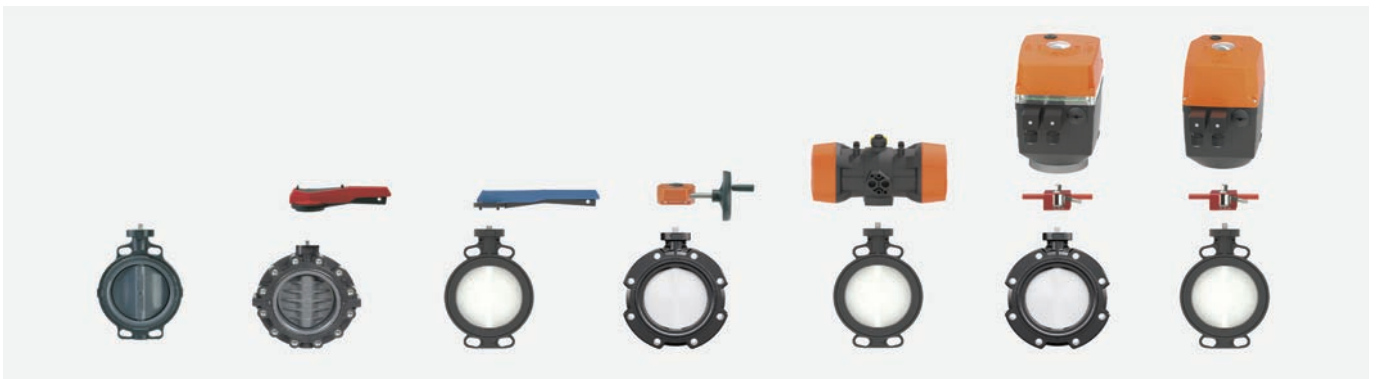


Injection Quills

204

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.



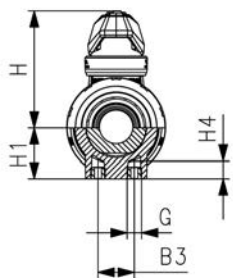
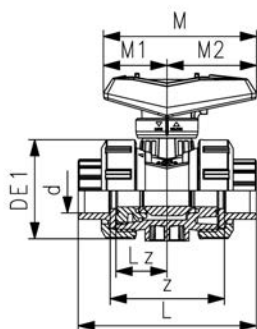
Scan to learn more about GF Process Automation:
gfps.com/au/process-automation



Scan to learn more about valve spare parts:
gfps.com/au/spare-parts

Ball Valves

Type 546 Pro



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

Model:

- Lockable lever as standard
- 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 for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from +GF+
- Individual configuration of the valve possible

d	DN	Size	PN	kv-value	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code		(kg)	Code		(kg)
				(l/min)						
16	10	3/8	16	71	161 546 341	1	0.157	161 546 351	1	0.184
20	15	1/2	16	185	161 546 342	1	0.233	161 546 352	1	0.200
25	20	3/4	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 1/4	16	1000	161 546 345	1	0.796	161 546 355	1	0.740
50	40	1 1/2	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 1/2	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	B3	DE1	G	H	H1	H4	L	Lz	M	M1	M2	z
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
16	25	50	M6	60.5	27	12	92	28	82	35	47	64
20	25	50	M6	60.5	27	12	95	28	82	35	47	64
25	25	58	M6	74.0	30	12	110	33	106	44	62	72
32	25	68	M8	80.0	36	12	123	36	106	44	62	79
40	45	84	M8	95.0	44	15	146	43	131	57	74	94
50	45	97	M8	101.5	51	15	157	45	131	57	74	95
63	45	124	M8	116.5	64	15	183	51	152	66	86	107
75	70	166	M8	169.0	85	15	233	68	270	64	205	144
90	70	200	M8	180.0	105	15	254	71	270	64	205	151
110	120	238	M12	194.0	123	22	301	82	326	71	205	174



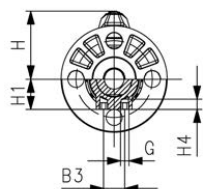
PVC-U Ball Valve type 546 Pro With backing flanges PP-St ANSI with PVC-U

Model:

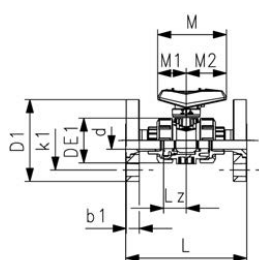
- Lockable lever as standard
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from +GF+
- Individual configuration of the valve possible



d	DN	Size	PN	kv-value	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code		(kg)	Code		(kg)
75	65	2 1/2	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	b1	B3	D1	DE1	G	H	H1	H4	k1	L	Lz	M	M1	M2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
75	18	70	166	166	M8	169	85	15	140	290	68	270	64	205
90	20	70	200	200	M8	180	105	15	152	310	71	270	64	205
110	20	120	238	238	M12	194	123	22	190	350	82	326	71	255



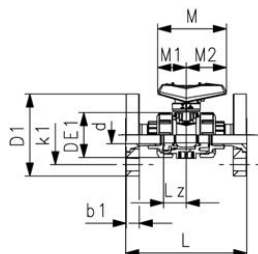
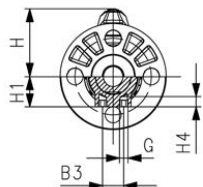
PVC-U Ball Valve type 546 Pro With backing flanges PVC-U ANSI

Model:

- Lockable lever as standard
- 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 for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from +GF+
- Individual configuration of valves possible



d	DN	Size	PN	kv-value	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code		(kg)	Code		(kg)
				(l/min)						
20	15	½	10	185	800 028 273	1	0.340	800 064 089	1	0.400
25	20	¾	10	350	800 028 274	1	0.470	800 065 697	1	0.500
32	25	1	10	700	800 056 529	1	1.200	800 063 545	1	0.800
40	32	1 ¼	10	1000	800 065 696	1	1.300	800 065 702	1	1.300
50	40	1 ½	10	1600	800 046 446	1	2.300	800 063 822	1	1.500
63	50	2	10	3100	800 010 118	1	2.540	800 046 451	1	3.600
75	65	2 ½	10	5000	161 546 168	1	7.300	161 546 178	1	7.300
90	80	3	10	7000	161 546 169	1	10.600	161 546 179	1	10.020
110	100	4	10	11000	161 546 170	1	16.400	161 546 180	1	16.400

d	b1	B3	D1	DE1	G	H	H1	H4	k1	L	Lz	M	M1	M2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	12	25	95	50	M6	60.5	27	12	60	130	28	82	35	47
25	12	25	105	58	M6	74.0	30	12	70	150	33	106	44	62
32	14	25	115	68	M6	80.0	36	12	79	160	36	106	44	62
40	16	45	140	84	M8	95.0	44	12	89	180	43	131	57	74
50	16	45	150	97	M8	101.5	51	15	98	200	45	131	57	74
63	18	45	165	124	M8	116.5	64	15	121	230	51	152	66	86
75	18	70	166	166	M8	169.0	85	15	140	290	68	270	64	205
90	20	70	200	200	M8	180.0	105	15	152	310	71	270	64	205
110	20	120	238	238	M12	194.0	123	22	190	350	82	326	71	205



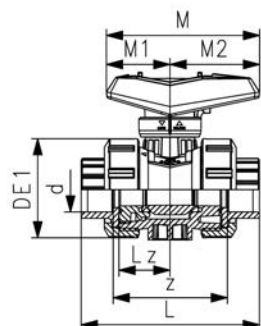
Ball valve type 546 Pro PVC-U With solvent cement sockets inch BS

Model:

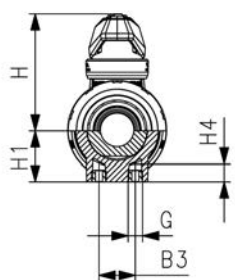
- Lockable lever as standard
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from +GF+
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	3/8	16	70	161 546 241	1	0.150	161 546 251	1	0.150
20	15	1/2	16	185	161 546 242	1	0.150	161 546 252	1	0.150
25	20	3/4	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 1/4	16	1000	161 546 245	1	0.585	161 546 255	1	0.585
50	40	1 1/2	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)	B3 (mm)	DE1 (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	25	50	M6	60.5	27	12	92	28	82	35	47	64
20	25	50	M6	60.5	27	12	95	28	82	35	47	64
25	25	58	M6	74.0	30	12	110	33	106	44	62	72
32	25	68	M6	80.0	36	12	123	36	106	44	62	79
40	45	84	M8	95.0	44	15	146	43	131	57	74	94
50	45	97	M8	101.5	51	15	157	45	131	57	74	95
63	45	124	M8	116.5	64	15	183	51	152	66	86	107
90	70	200	M8	180.0	105	15	254	71	270	64	205	151
110	120	238	M12	194.0	123	22	301	82	326	71	205	174



PVC-U Ball Valve type 546 Pro

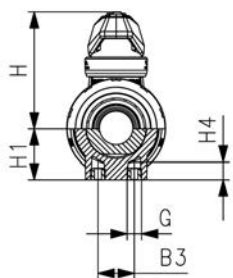
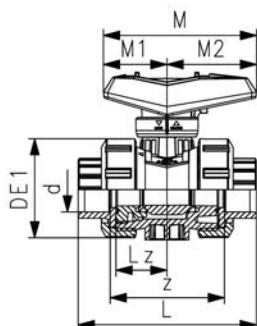
With solvent cement sockets PVC-U ISO

Model:

- Lockable lever as standard
- 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 for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible



d	DN	Size	PN	kv-value	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code		(kg)	Code		(kg)
				(l/min)						
16	10	3/8	16	70	161 546 061	1	0.153	161 546 071	1	0.156
20	15	1/2	16	185	161 546 062	1	0.156	161 546 072	1	0.158
25	20	3/4	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 1/4	16	1000	161 546 065	1	0.610	161 546 075	1	0.615
50	40	1 1/2	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 1/2	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	B3	DE1	G	H	H1	H4	L	Lz	M	M1	M2	z
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
16	25	50	M6	60.5	27	12	92	28	82	35	47	64
20	25	50	M6	60.5	27	12	95	28	82	35	47	64
25	25	58	M6	74.0	30	12	110	33	106	44	62	72
32	25	68	M6	80.0	36	12	123	36	106	44	62	79
40	45	84	M8	95.0	44	15	146	43	131	57	74	94
50	45	97	M8	101.5	51	15	157	45	131	57	74	95
63	45	124	M8	116.5	64	15	183	51	152	66	86	107
75	70	166	M8	169.0	85	15	233	68	270	64	205	144
90	70	200	M8	180.0	105	15	254	71	270	64	205	151
110	120	238	M12	194.0	123	22	301	82	326	71	205	174



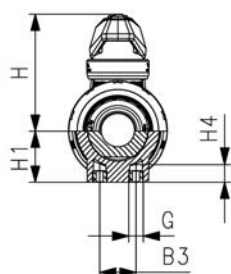
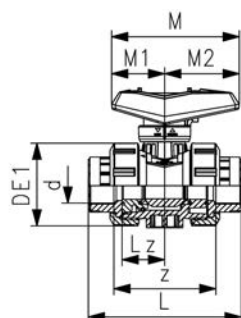
PVC-U Ball Valve type 546 Pro With threaded sockets PVC-U ISO Rp

Model:

- Lockable lever as standard
- 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 for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from +GF+
- Individual configuration of valves 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	3/8	10	70	161 546 741	1	0.152	161 546 751	1	0.152
20	15	1/2	10	185	161 546 742	1	0.159	161 546 752	1	0.152
25	20	3/4	10	350	161 546 743	1	0.242	161 546 753	1	0.232
32	25	1	10	700	161 546 744	1	0.352	161 546 754	1	0.332
40	32	1 1/4	10	1000	161 546 745	1	0.605	161 546 755	1	0.605
50	40	1 1/2	10	1600	161 546 746	1	0.805	161 546 756	1	0.805
63	50	2	10	3100	161 546 747	1	1.580	161 546 757	1	1.465
75	65	2 1/2	10	5000	161 546 748	1	5.000	161 546 758	1	5.000
90	80	3	10	7000	161 546 749	1	6.300	161 546 759	1	7.500
110	100	4	10	11000	161 546 750	1	11.700	161 546 760	1	11.700

d (mm)	B3 (mm)	DE1 (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	25	50	M6	60.5	27	12	95	28	82	35	47	69
20	25	50	M6	60.5	27	12	100	28	82	35	47	67
25	25	58	M6	74.0	30	12	114	33	106	44	62	78
32	25	68	M6	80.0	36	12	127	36	106	44	62	85
40	45	84	M8	95.0	44	15	146	43	131	57	74	100
50	45	97	M8	101.5	51	15	152	45	131	57	74	106
63	45	124	M8	116.5	64	15	177	51	152	66	86	121
75	70	166	M8	169.0	85	15	233	68	270	64	205	144
90	70	200	M8	180.0	105	15	254	71	270	64	205	151
110	120	238	M12	194.0	123	22	301	82	326	71	255	174



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.

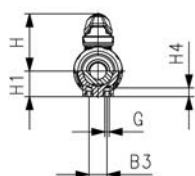
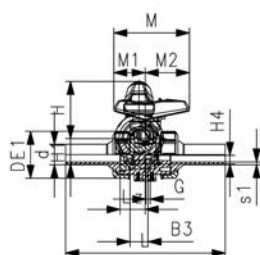
Range of use:

- 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
3/8	10	20006A384	20006A393
1/2	15	20006A385	20006A394
3/4	20	20006A386	20006A395
1	25	20006A387	20006A396
1 1/4	32	20006A388	20006A397
1 1/2	40	20006A389	20006A398
2	50	20006A390	20006A399
3	80	20006A391	20006A400
4	100	20006A392	20006A401



ecoFIT Ball Valve type 546 Pro PVC-U
With butt fusion spigots long PE100 SDR11 ISO

Model:

- Lockable lever as standard
- 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 for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from +GF+
- Individual configuration of the valve possible

d	DN	Size	PN	kv-value	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code		(kg)	Code		(kg)
				(l/min)						
20	15	½	16	185	161 546 822	1	0.162	161 546 832	1	0.150
25	20	¾	16	350	161 546 823	1	0.248	161 546 833	1	0.220
32	25	1	16	700	161 546 824	1	0.362	161 546 834	1	0.310
40	32	1 ¼	16	1000	161 546 825	1	0.550	161 546 835	1	0.550
50	40	1 ½	16	1600	161 546 826	1	0.886	161 546 836	1	0.750
63	50	2	16	3100	161 546 827	1	1.630	161 546 837	1	1.360
75	65	2 ½	16	5000	161 546 828	1	3.651	161 546 838	1	5.000
90	80	3	16	7000	161 546 829	1	6.840	161 546 839	1	7.500
110	100	4	16	11000	161 546 830	1	8.860	161 546 840	1	11.800

d	B3	DE1	G	H	H1	H4	L	Lz	M	M1	M2	s1
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	25	50	M6	60.5	27	12	193	28	82	35	47	1.9
25	25	58	M6	74.0	30	12	216	33	106	44	62	2.3
32	25	68	M6	80.0	36	12	223	36	106	44	62	3.0
40	45	84	M8	95.0	44	15	249	43	131	57	74	3.7
50	45	97	M8	101.5	51	15	271	45	131	57	74	4.6
63	45	124	M8	116.5	64	15	321	51	152	66	86	5.8
75	70	166	M8	169.0	85	15	386	68	270	64	205	6.8
90	70	200	M8	180.0	105	15	421	71	270	64	205	8.2
110	120	238	M12	194.0	123	22	484	82	326	71	205	10.0



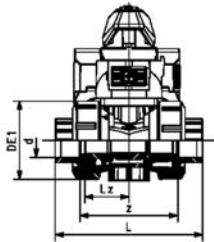
PVC-U Ball Valve type 546 Pro
With solvent cement sockets PVC-U ISO
With spring return unit

Model:

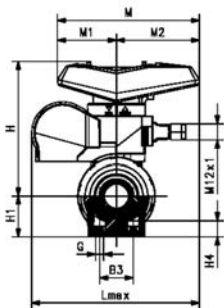
- Lockable lever as standard
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

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

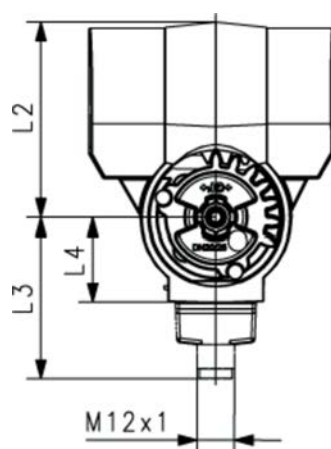
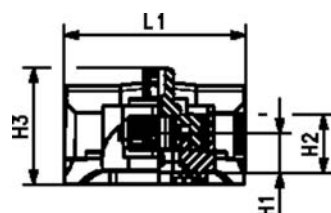


d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (dp=1bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	3/8	16	71	161 546 818	1	0.153	161 546 940	1	0.156
20	15	1/2	16	185	161 546 819	1	0.156	161 546 941	1	0.158
25	20	3/4	16	350	161 546 820	1	0.240	161 546 942	1	0.242
32	25	1	16	700	161 546 821	1	0.343	161 546 943	1	0.345



d (mm)	B3 (mm)	DE1 (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	25	50	M6	60.5	27	12	92	28	82	35	47	64
20	25	50	M6	60.5	27	12	95	28	82	35	47	64
25	25	58	M6	74.0	30	12	110	33	106	44	62	72
32	25	68	M6	80.0	36	12	123	36	106	44	62	79

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



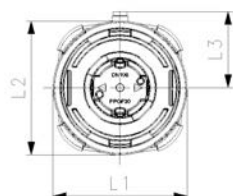
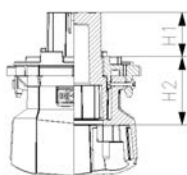
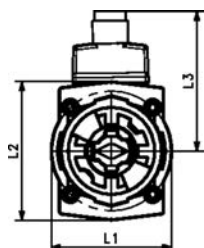
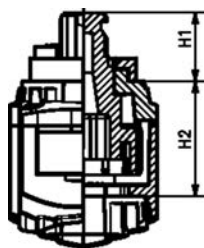
Manual Interface module For Ball Valve Type 546 Pro & 543 Pro

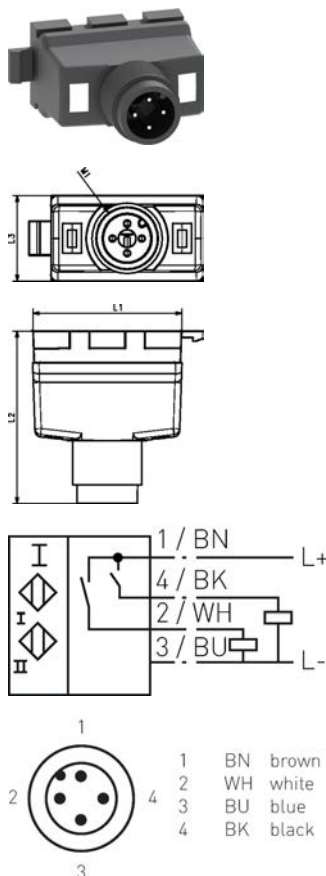
Model:

- Accessory for manual ball valve type 546 Pro and 543 Pro
- Position feedback through double sensor with LED (PNP, NPN and NAMUR) possible
- 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)	d (mm)	Manual Interface Code	SP	Weight (kg)	H1 (mm)	H2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)
10 - 15	16 - 20	198 546 102	1	0.042	15	32	37	44	46
20 - 25	25 - 32	198 546 103	1	0.052	20	32	41	47	48
32 - 40	40 - 50	198 546 105	1	0.097	23	33	53	60	54
50	63	198 546 107	1	0.111	26	36	56	62	55
65 - 80	75 - 90	198 546 108	1	0.111	34	52	103	103	58
100	110	198 546 109	1	0.111	34	52	103	103	58





Double sensor DCI for electrical position feedback (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): $\leq 3V$

Operating current (I_L): 0... 150mA

Off-state current (I_r): 0... 0.5mA typ. 0.1 μA at 25°C

No-load supply current (I_0): $\leq 25mA$

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

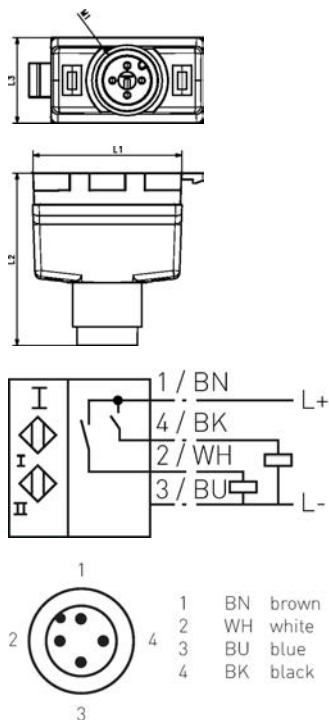
MTTF_a 948 a

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	Electrical connection	Output	PNP Code	SP	Weight (kg)	NPN Code	*Namur (Atex) Code
Closed: green / open: red	4-pin, M12 x 1	3-wire	198 546 001	1	0.050	198 546 005	198 546 003
Closed: red / open: green	4-pin, M12 x 1	3-wire	198 546 002	1	0.050	198 546 006	198 546 004



L1	L2	L3	M1
(mm)	(mm)	(mm)	
26	30	15	M12
26	30	15	M12

Specifications	PNP/NPN	NAMUR
Technology	Inductive	Inductive
Output circuit	PNP, NPN 2x NO contact	NAMUR 2x NC contact
Hysteresis	Typical 5%	Typical 10%
Switching frequency	<500 Hz	<1000 Hz
Switching status display	Output 1 / 2 LED red / green LED green / red LED red / green LED green / red	Output 1 / 2 LED green / red LED red / green
Art. Nr. 198546001 PNP		
Art. Nr. 198546002 PNP		
Art. Nr. 198546005 NPN		
Art. Nr. 198546006 NPN		
Art. Nr. 198546003 NAMUR		
Art. Nr. 198546004 NAMUR		
Supply voltage 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 bei 25°C	
No-load supply current (I0)	≤ 25 mA	≥ 3 mA
MTTFd	780 a	2122 a
Short-circuit proof		yes
Reverse polarity protected		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)	



Multi-pin plug For double sensors type DCI and DTM

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

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

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

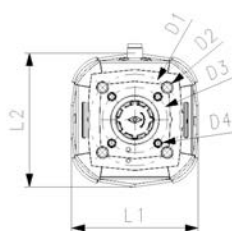
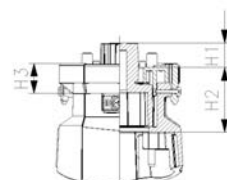
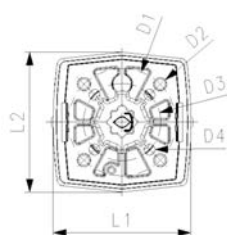
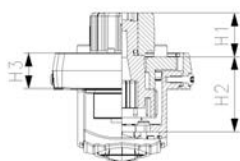
Model:

- Interface module acts as interface between GF actuators and ball valves
- Position feedback through double sensor with LED (PNP, NPN and NAMUR) possible
- Inclusive labelling clip
- Electrical position feedback: Double sensor with LED (PNP, NPN, NAMUR) possible as standard for PPA interface while on request only for EA interface

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

	DN (mm)	d (mm)	Interface for PPA Code	SP	Weight (kg)	Interface for EA Code	SP	Weight (kg)
	10 - 15	16 - 20	198 546 162	1	0.130	198 546 142	1	0.100
	20	25	198 546 163	1	0.105	198 546 143	1	0.100
	25	32	198 546 164	1	0.105	198 546 144	1	0.105
	32	40	198 546 135	1	0.001	198 546 145	1	0.140
	40	50	198 546 136	1	1.000	198 546 146	1	0.140
	50	63	198 546 137	1	1.000	198 546 147	1	0.140
if PPA40	65 - 80	75 - 90	198 546 165	1	0.001	198 546 148	1	0.140
if PPA80	65 - 80	75 - 90	198 546 166	1	0.135			
	100	110	198 546 167	1	0.001	198 546 149	1	0.140

	DN (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	D2	D3 (mm)	D4
	10 - 15	16	35	17	65	65	50	M6	36	M5
	20	16	35	17	65	65	50	M6	36	M5
	25	16	35	17	65	65	50	M6	36	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		
if PPA40	65 - 80	19	49	23	92	91	70	M8	50	M6
if PPA80	65 - 80	19	49	23	92	91	70	M8	50	M6
	100	18	49	23	97	103	70	M8	50	M6

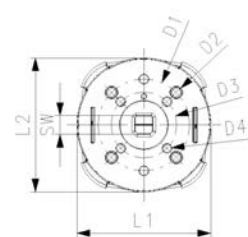
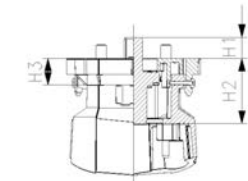
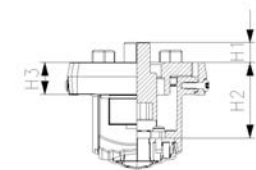
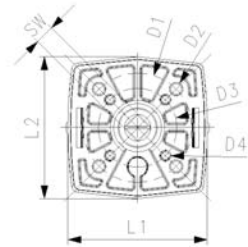




Interface module with diagonal square head for ISO5211 actuators For Ball Valve Type 543 Pro & 546 Pro

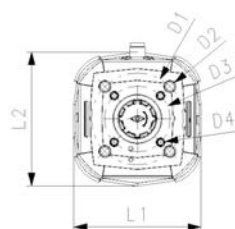
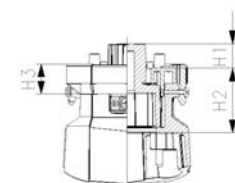
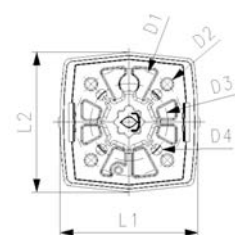
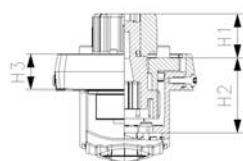
Model:

- Interface module connects non-GF actuators and ball valves
- Norm interface according to ISO 2023:5211 with diagonal square head
- Inclusive transparent labelling clip
- No possibility for position feedback through double sensor with LED



DN (mm)	d (mm)	Interface ISO5211 Code	SP	Weight (kg)
DN 10-15 SW09, F03/F05	16 - 20	198 546 122	1	0.111
DN 10-15 SW11/14, F03/F05	16 - 20	198 546 123	1	0.111
DN 20-25 SW09, F03/F05	25 - 32	198 546 124	1	0.120
DN 20-25 SW11/14, F03/F05	25 - 32	198 546 125	1	0.120
DN 32-40 SW11/14, F05	40 - 50	198 546 126	1	0.130
DN 50 SW11/14, F05	63	198 546 127	1	0.130

DN (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	D4 (mm)
DN 10-15 SW09, F03/F05	9	35	15	65	65	50	M6	36	M5
DN 10-15 SW11/14, F03/F05	11	35	15	65	65	50	M6	36	M5
DN 20-25 SW09, F03/F05	9	35	15	65	65	50	M6	36	M5
DN 20-25 SW11/14, F03/F05	11	35	15	65	65	50	M6	36	M5
DN 32-40 SW11/14, F05	11	33	13	72	79	50	M6	36	M5
DN 50 SW11/14, F05	11	36	13	72	79	50	M6	36	M5



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

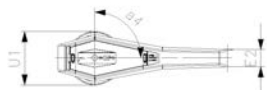
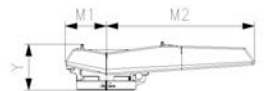
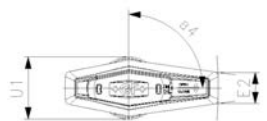
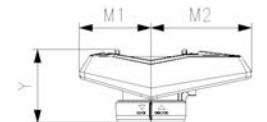
Model:

- Interface module acts as interface between GF actuators and ball valves
- Position feedback through double sensor with LED (PNP, NPN and NAMUR) possible
- Inclusive labelling clip
- Electrical position feedback: Double sensor with LED (PNP, NPN, NAMUR) possible as standard for PPA interface while on request only for EA interface

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

DN (mm)	d (mm)	Interface for PPA Code	SP	Weight (kg)	Interface for EA Code	SP	Weight (kg)
10 -	16 -	198 546 162	1	0.130	198 546 142	1	0.100
20	25	198 546 163	1	0.105	198 546 143	1	0.100
25	32	198 546 164	1	0.105	198 546 144	1	0.105
32	40	198 546 135	1	0.001	198 546 145	1	0.140
40	50	198 546 136	1	1.000	198 546 146	1	0.140
50	63	198 546 137	1	1.000	198 546 147	1	0.140
if PPA40	65 - 80	198 546 165	1	0.001	198 546 148	1	0.140
if PPA80	65 - 80	198 546 166	1	0.135			
100	110	198 546 167	1	0.001	198 546 149	1	0.140

	DN (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	D2	D3 (mm)	D4
	10 - 15	16	35	17	65	65	50	M6	36	M5
	20	16	35	17	65	65	50	M6	36	M5
	25	16	35	17	65	65	50	M6	36	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		
if PPA40	65 - 80	19	49	23	92	91	70	M8	50	M6
if PPA80	65 - 80	19	49	23	92	91	70	M8	50	M6
	100	18	49	23	97	103	70	M8	50	M6



Lever 546 Pro

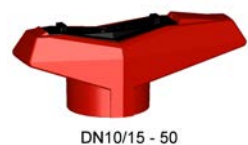
Model:

- Spare part for ball valve type 546 Pro
- Lockable as a standard
- With integrated tool to install and uninstall the union bush

Note:

Compatible with ball valve type 546 Pro only

DN (mm)	d (mm)	Lever 546 Pro Code	SP	Weight (kg)	M1 (mm)	M2 (mm)	Y (mm)	U1 (mm)	E2 (mm)	a4
10-15	16 - 20	198 546 400	1	0.100	35	47	34	34	11	90°
20	25	198 546 401	1	0.100	44	62	45	43	14	90°
25	32	198 546 402	1	0.100	44	62	45	43	14	90°
32	40	198 546 403	1	0.100	57	74	51	50	21	90°
40	50	198 546 404	1	0.100	57	74	51	50	21	90°
50	63	198 546 405	1	0.100	66	86	54	54	22	90°
65	75	198 546 406	1	0.100	63	205	79	84	26	90°
80	90	198 546 407	1	0.100	63	205	79	84	26	90°
100	110	198 546 408	1	0.100	71	255	79	102	25	90°



Lever

d (mm)	DN (mm)	Size (inch)	Standard lever red Code	SP	Weight (kg)	Standard lever black Code	SP	Weight (kg)	Multifunctional lever Code	SP	Weight (kg)
16	10	3/8	167 484 088		0.012	167 484 076		0.012	167 484 100	1	0.026
20	15	1/2	167 484 088		0.012	167 484 076		0.012	167 484 100	1	0.026
25	20	3/4	167 484 089		0.022	167 484 077		0.022	167 484 101	1	0.045
32	25	1	167 484 090		0.022	167 484 078		0.022	167 484 102	1	0.047
40	32	1 1/4	167 484		0.042	167 484 079		0.042	167 484 103	1	0.091
50	40	1 1/2	167 484		0.042	167 484 080		0.042	167 484 104	1	0.080
63	50	2	167 484 093		0.064	167 484 081		0.059	167 484 105	1	0.124
75	65	2 1/2	167 484		0.250	167 484 082	1	0.250	161 486 689	1	0.468
90	80	3	167 484 095	1	0.250	167 484 083		0.250	161 486 690	1	0.467
110	100	4	167 484 096	1	0.298	167 484 084		0.298	161 486 691	1	0.543



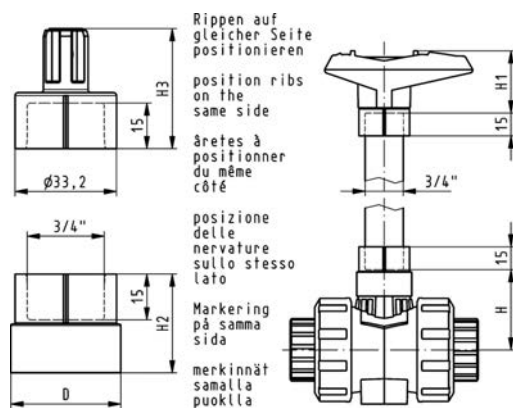
Handle extension 546 PVC-U inch BS/ASTM

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 -	1 1/	161 486	0.047	65	76	34	44	40
50	2	161 486 446	0.058	84	87	37	48	44

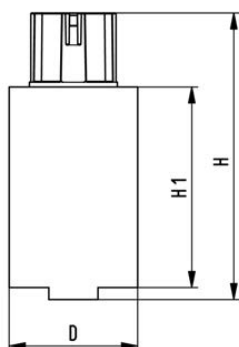


Handle extension for ball valve type 546 PVC-U DN65 - DN100

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



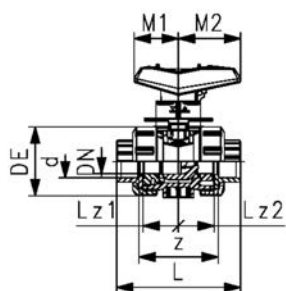
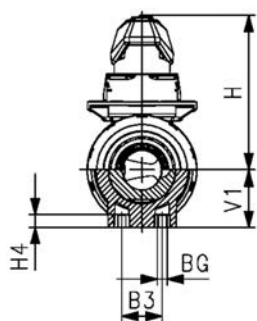
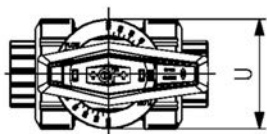
Linear ball valve type 546 Pro PVC-U With solvent cement sockets metric

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	Size	DN	PN	kv-value	EPDM	SP	Weight	FKM
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code		(kg)	Code
				(l/min)				
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	M1	M2	Lz1	Lz2	L	V1	H	Hmax	DE	BG	B3	H4	U	z
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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



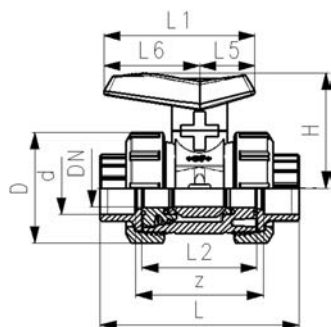
Ball valve type 542 PVC-U
With cemented socket (BS)
With PTFE ball seal

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	DN	Size	PN	kv-value ($\Delta p=1$ bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
(mm)	(mm)	(inch)	(bar)	(l/min)						
16	10	3/8	16	71	161 542 201	1	0.151	161 542 211	1	0.151
20	15	1/2	16	185	161 542 202	1	0.149	161 542 212	1	0.149
25	20	3/4	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 1/4	16	1000	161 542 205	1	0.588	161 542 215	1	0.588
50	40	1 1/2	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	D	H	L	L1	L2	L5	L6	z
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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



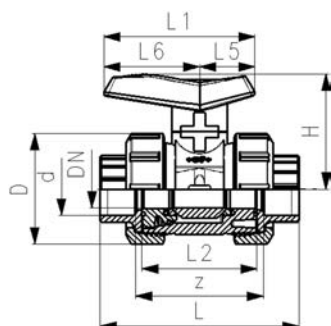
Ball valve type 542 PVC-U
With cemented socket (BS)
With PE ball seal

Model:

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

Option:

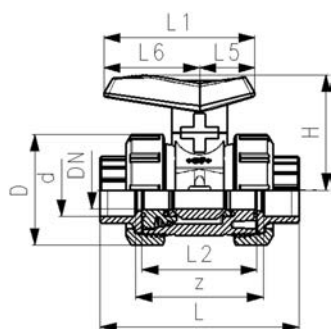
- Individual configuration of the valve possible
- Assembling of a valve tag possible



DN	Size	PN	kv-value ($\Delta p=1$ bar)	EPDM Code	Weight (kg)
(mm)	(inch)	(bar)	(l/min)		
10	3/8	16	71	161 541 201	0.151
15	1/2	16	185	161 541 202	0.149
20	3/4	16	350	161 541 203	0.229
25	1	16	700	161 541 204	0.334
32	1 1/4	16	1000	161 541 205	0.588
40	1 1/2	16	1600	161 541 206	0.843
50	2	16	3100	161 541 207	1.564

D	H	L	L1	L2	L5	L6	z
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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	H	L	L1	L2	L5	L6	z
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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



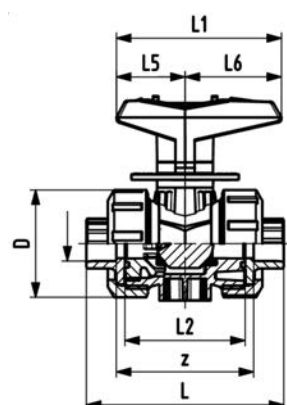
Metering ball valve type 523 PVC-U With mounting inserts With solvent cement sockets Inch BS

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

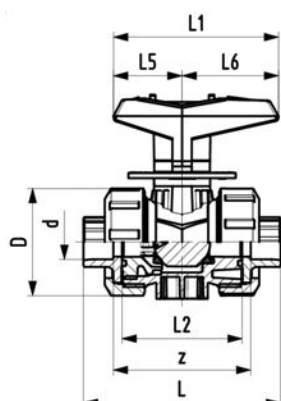
Option:

- Other materials on demand



Size	DN	PN	kv-value	EPDM	SP	Weight	FKM	SP	Weight
(inch)	(mm)	(bar)	(Δp=1 bar)	Code		(kg)	Code		(kg)
			(l/min)						
3/8	10	10	11	161 523 501	1	0.170	161 523 511	1	0.170
1/2	15	10	20	161 523 502	1	0.170	161 523 512	1	0.170

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



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

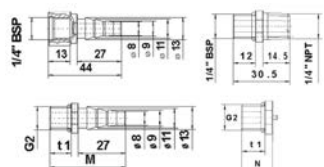
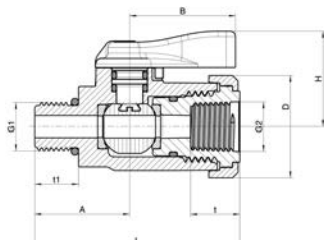
Option:

- 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	3/8
20	50	68	27	95	77	56	25	32	45	64	1/2

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

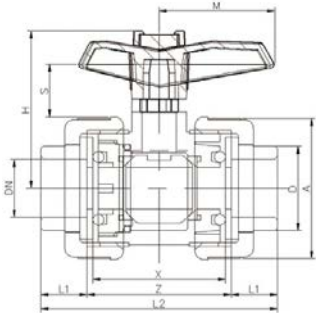
Following connections/parts are included for every valve:

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	1/8	10	161 522 060	1	0.050	161 522 070
10	6	1/8	10	161 522 080		0.050	
10	6	1/8	10	161 522 160	1	0.050	161 522 170

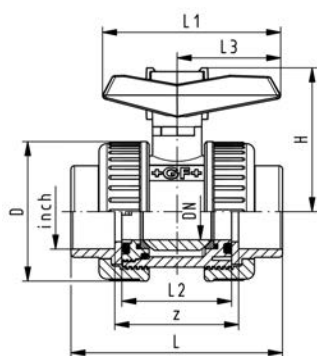
d (mm)	G1 (mm)	G2 (mm)	A (mm)	B (mm)	D (mm)	H (mm)	L (mm)	t (mm)	t1 (mm)
10	1/4" BSP	1/4" BSP	26.0	28.2	28	25.5	56.0	13.5	12
10	3/8" BSP	1/4" BSP	26.0	28.2	28	25.5	56.0	13.5	12
10	1/4" NPT	1/4" NPT	28.5	29.0	28	26.5	58.5	13.5	14.5

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	L1	PN	d	L2	Z	X	M	S	A	H	EPDM Code	SP	Weight
(mm)	(mm)	(bar)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	Code		(kg)
15	16	16	½	91	48	42	40	18	49	55	300 141 933	1	0.130
20	19	16	¾	103	53	48	45	19	59	61	300 141 934	1	0.210
25	22	16	1	115	58	54	51	22	68	69	300 141 935	1	0.305
32	26	16	1 ¼	132	68	62	59	26	79	81	300 141 936	1	0.450
40	31	16	1 ½	146	78	72	70	28	94	92	300 141 937	1	0.695
50	38	16	2	168	93	86	84	37	115	108	300 141 938	1	1.200



Ball valve type 374 PVC-U
With solvent cement sockets ASTM

Model:

- True double union safe block ball valve
- Ball seals PE/PTFE
- Handle includes integrated tool for ball seat adjustment
- Very compact dimensions
- z-dimension, valve end and union nut compatible with type 375

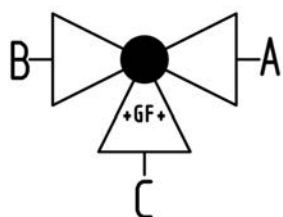
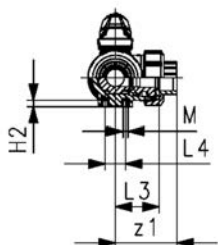
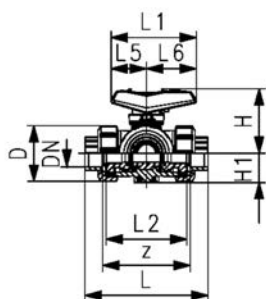
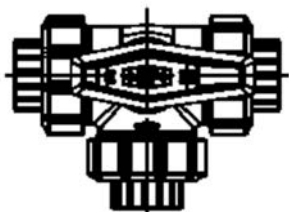
Range of use:

- Water application

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)
3	80	10	7000	161 374 009	2	3.310
4	100	10	11000	161 374 010	1	5.925

Size (inch)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	z (mm)
3	168	146	242	209	128	120	140
4	210	179	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	DN	Size	PN	kv-value	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code		(kg)	Code		(kg)
				(l/min)						
16	10	$\frac{3}{8}$	10	50	161 543 061	1	0.245	161 543 071	1	0.245
20	15	$\frac{1}{2}$	10	75	161 543 062	1	0.251	161 543 072	1	0.251
25	20	$\frac{3}{4}$	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 $\frac{1}{4}$	10	480	161 543 065	1	0.938	161 543 075	1	0.938
50	40	1 $\frac{1}{2}$	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	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(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:

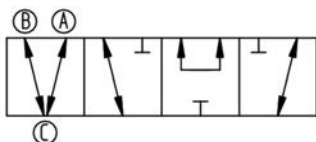
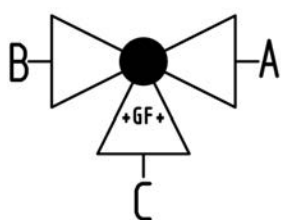
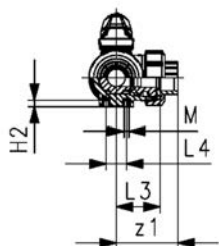
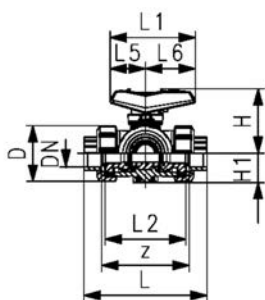
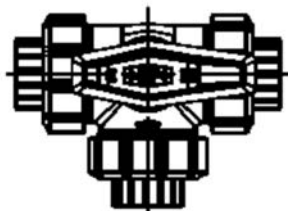
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel 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	Size	DN	PN	kv-value	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code		(kg)	Code		(kg)
				(l/min)						
16	3/8	10	10	140	161 543 261	1	0.244	161 543 271	1	0.244
20	1/2	15	10	200	161 543 262	1	0.250	161 543 272	1	0.250
25	3/4	20	10	470	161 543 263	1	0.359	161 543 273	1	0.359
	1	25	10	793	161 543 264	1	0.544	161 543 274	1	0.544
40	1 1/4	32	10	1290	161 543 265	1	0.927	161 543 275	1	0.927
50	1 1/2	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	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(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:

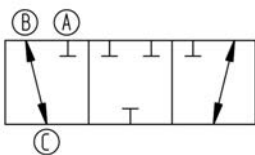
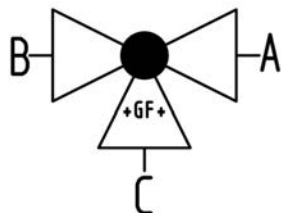
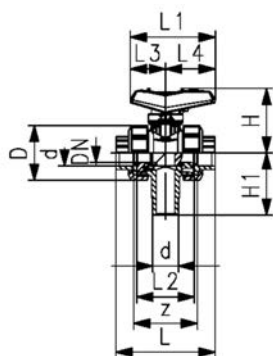
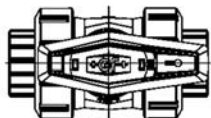
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal
- Ball seals PTFE
- Vertical inlet solvent cement spigot metric
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting 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

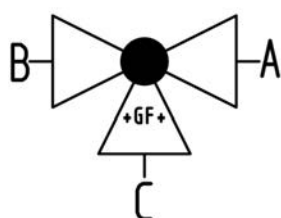
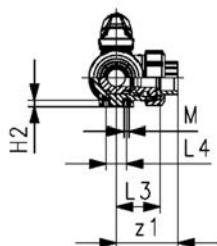
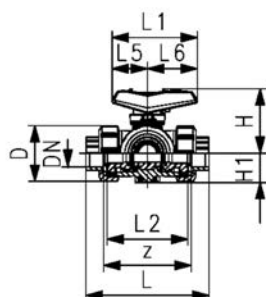
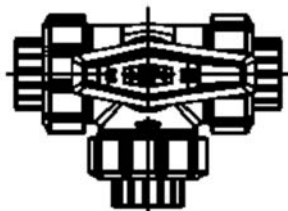
Option:

- 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)
3/8	10	10	49	161 543 601	1	0.162	161 543 611	1	0.162
1/2	15	10	77	161 543 602	1	0.166	161 543 612	1	0.166
3/4	20	10	146	161 543 603	1	0.255	161 543 613	1	0.255
1	25	10	260	161 543 604	1	0.372	161 543 614	1	0.372
1 1/4	32	10	437	161 543 605	1	0.622	161 543 615	1	0.622
1 1/2	40	10	667	161 543 606	1	0.886	161 543 616	1	0.886
2	50	10	1293	161 543 607	1	1.617	161 543 617	1	1.617

Size (inch)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	z (mm)
3/8	50	61	62	92	82	56	32	45	60
1/2	50	61	62	95	82	56	32	45	60
3/4	58	74	72	111	106	66	39	58	69
1	68	80	77	123	106	71	39	58	75
1 1/4	84	95	87	146	131	85	54	74	89
1 1/2	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:

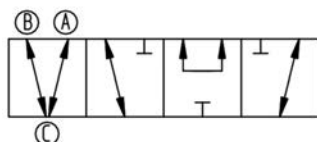
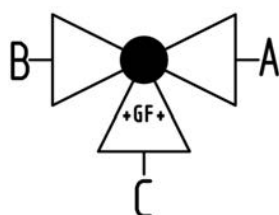
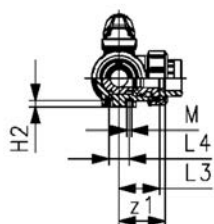
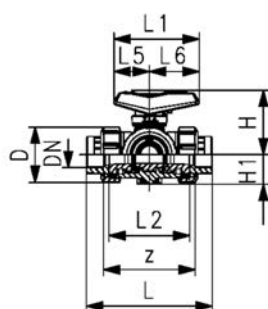
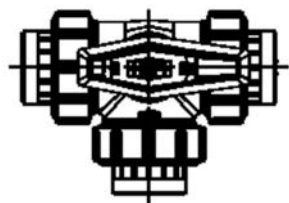
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel 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	DN	Size	PN	kv-value	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code		(kg)	Code		(kg)
				(l/min)						
16	10	$\frac{3}{8}$	10	50	161 543 001	1	0.245	161 543 011	1	0.245
20	15	$\frac{1}{2}$	10	75	161 543 002	1	0.230	161 543 012	1	0.251
25	20	$\frac{3}{4}$	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 $\frac{1}{4}$	10	480	161 543 005	1	0.912	161 543 015	1	0.938
50	40	1 $\frac{1}{2}$	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	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
															(inch)
16	50	61	28	8	109	82	73	36	25	35	47	6	81	40	$\frac{3}{8}$
20	50	61	28	8	112	82	73	36	25	35	47	6	81	40	$\frac{1}{2}$
25	58	74	32	8	131	106	86	43	25	44	62	6	94	47	$\frac{3}{4}$
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 $\frac{1}{4}$
50	97	102	51	9	205	131	137	69	45	57	74	8	143	72	1 $\frac{1}{2}$
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:

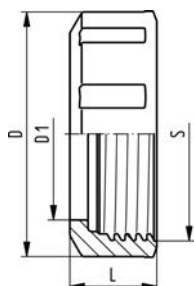
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

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	3/8	10	140	161 543 241	1	0.244
20	15	Rp	1/2	10	200	161 543 242	1	0.250
25	20	Rp	3/4	10	470	161 543 243	1	0.359
	25	Rp	1	10	793	161 543 244	1	0.544
40	32	Rp	1 1/4	10	1290	161 543 245	1	0.927
50	40	Rp	1 1/2	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

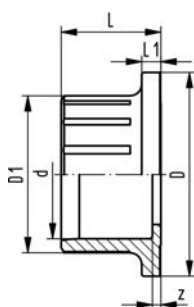
D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
50	61	28	8	113	82	73	36	25	35	47	6	87	43
50	61	28	8	117	82	73	36	25	35	47	6	85	42
58	74	32	8	135	106	86	43	25	44	62	6	100	50
68	80	36	8	155	106	99	50	25	44	62	6	113	57
84	95	45	9	179	131	120	60	45	57	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



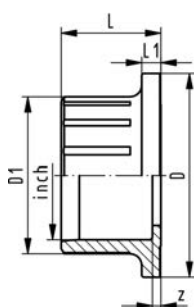
Union nut 546 and 543 PVC-U

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	$\frac{3}{8}$ - $\frac{1}{2}$
25	20	161 490 539	0.023	58	39	20	48	$\frac{3}{4}$
32	25	161 490 540	0.041	68	47	24	58	1
40	32	161 490 541	0.066	84	57	27	71	1 $\frac{1}{4}$
50	40	161 490 542	0.092	97	65	30	84	1 $\frac{1}{2}$
63	50	161 490 543	0.189	124	79	36	106	2
75	65	161 490 544	0.562	166	94	48	135	2 $\frac{1}{2}$
90	80	161 490 545	0.882	200	113	54	135	3
110	100	161 490 546	1.355	238	137	60	198	4



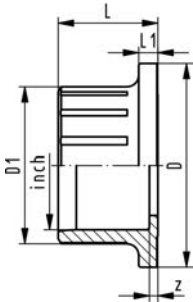
Valve end 546 Pro and 543 Pro PVC-U (G01)
With solvent cement socket metric

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



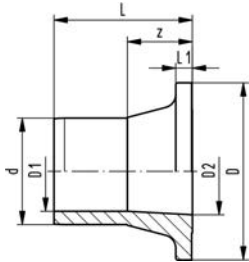
Valve end 546 Pro and 543 Pro PVC-U (G03)
With solvent cement socket Inch ASTM

Size (inch)	d (mm)	PN (bar)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
$\frac{3}{8}$	16	16	161 490 712	1	0.012	38	24	25	4	6
$\frac{1}{2}$	20	16	161 490 713	1	0.014	38	30	25	4	2
$\frac{3}{4}$	25	16	161 490 714	1	0.020	44	35	28	5	3
1	32	16	161 490 715	1	0.031	53	43	31	5	3
1 $\frac{1}{4}$	40	16	161 490 716	1	0.046	65	53	34	5	3
1 $\frac{1}{2}$	50	16	161 490 717	1	0.066	77	60	38	6	3
2	63	16	161 490 718	1	0.112	99	73	41	7	3
2 $\frac{1}{2}$	75	16	161 490 719	1	0.241	125	92	49	9	4
3	90	16	161 490 720	1	0.394	150	110	57	10	9
4	110	16	161 490 721	1	0.582	180	134	69	11	11



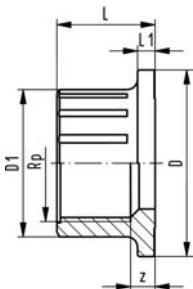
Valve end 546 Pro and 543 Pro PVC-U (G04) With solvent cement socket inch BS

Size (inch)	d (mm)	PN (bar)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
3/8	16	16	161 490 734	1	0.009	38	23	18	4	2
1/2	20	16	161 490 735	1	0.010	38	27	20	4	2
3/4	25	16	161 490 736	1	0.013	44	33	23	5	2
1	32	16	161 490 737	1	0.021	53	41	26	5	2
1 1/4	40	16	161 490 738	1	0.036	65	51	31	5	2
1 1/2	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

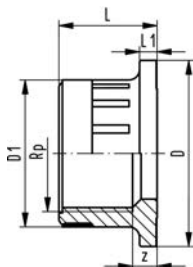
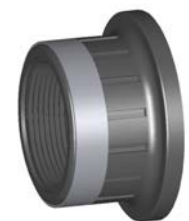


Valve end 546 Pro and 543 Pro PVC-U (G06) With threaded socket Rp

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)
3/8	10	161 490 690	1	0.011	7	24	38	20	4
1/2	10	161 490 691	1	0.013	6	28	38	22	4
3/4	10	161 490 692	1	0.019	7	34	44	25	5
1	10	161 490 693	1	0.031	7	42	53	28	5
1 1/4	10	161 490 694	1	0.047	7	52	65	30	5
1 1/2	10	161 490 695	1	0.074	9	63	77	32	6
2	10	161 490 696	1	0.129	10	78	99	38	7
2 1/2	10	161 490 697	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

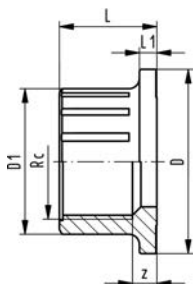


Valve end 546 Pro and 543 Pro PVC-U (G07) With threaded socket Rp reinforced

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)
3/8	16	161 490 825	1	0.013	38	24	20	4	7
1/2	16	161 490 826	1	0.016	38	28	22	4	6
3/4	16	161 490 827	1	0.023	44	34	25	5	7
1	16	161 490 828	1	0.036	53	42	28	5	7
1 1/4	16	161 490 829	1	0.058	65	52	30	5	7
1 1/2	16	161 490 830	1	0.084	77	63	32	6	9
2	16	161 490 831	1	0.166	99	78	38	7	10

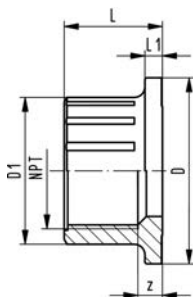


Valve end 546 Pro and 543 Pro PVC-U (G08) With threaded socket Rc

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	1/2	161 490 755	1	0.013	38	28	22	4	5
10	3/4	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 1/4	161 490 758	1	0.047	65	52	30	5	6
10	1 1/2	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 1/2	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

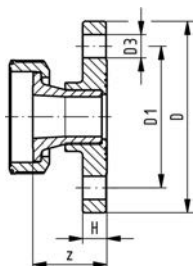


Valve end 546 Pro and 543 Pro PVC-U (G09) With threaded socket NPT

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)
3/8	10	161 490 723	1	0.014	38	26	21	4	7
1/2	10	161 490 724	1	0.017	38	33	21	4	4
3/4	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 1/4	10	161 490 727	1	0.064	65	57	31	5	7
1 1/2	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 1/2	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

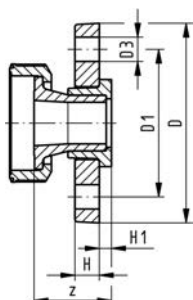


Valve end 546 Pro PVC-U (G60) Assembly with fixed flange PVC-U metric

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	DN	PN	Code	SP	Weight	D	D1	D3	H	z
(mm)	(mm)	(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	(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

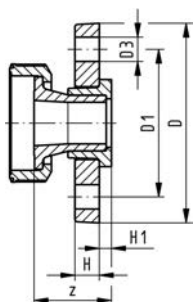


Valve end 546 Pro PVC-U (G70) Assembly with backing flange PVC-U metric

Model:

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

d	DN	PN	Code	SP	Weight	D	D1	D3	H	H1	z
(mm)	(mm)	(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(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		1.429	185	145	18	19	10	77
90	80	10	161 486 272		2.109	200	160	18	20	11	85
110	100	10	161 486 273	1	3.067	220	180	18	22	12	93

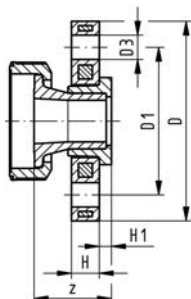


Valve end 546 Pro PVC-U (G71) Assembly with backing flange PVC-U Inch ANSI

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	d	PN	Code	SP	Weight	D	D1	D3	H	H1	z
(inch)	(mm)	(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
½	20	10	161 486 275	1	0.110	95	60	14	11	6	37
¾	25	10	161 486 276	1	0.150	105	70	14	12	7	42
1	32	10	161 486 277	1	0.220	115	79	14	14	7	45
1 ¼	40	10	161 486 278	1	0.375	140	89	18	15	8	48
1 ½	50	10	161 486 279	1	0.495	150	98	18	16	8	56
2	63	10	161 486 280	1	0.760	165	121	18	18	9	65
2 ½	75	10	161 486 281		1.429	185	140	19	19	10	77
3	90	10	161 486 282		3.136	200	152	19	20	11	85
4	110	10	161 486 283		4.214	220	190	19	22	12	93

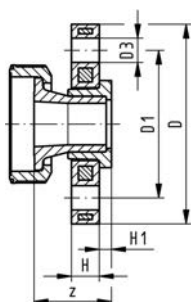


Valve end 546 Pro PVC-U (G72) Assembly with backing flange PP-st metric

Model:

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

d	DN	PN	Code	SP	Weight	D	D1	D3	H	H1	z
(mm)	(mm)	(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(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

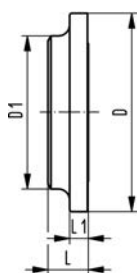


Valve end 546 Pro PVC-U (G73) Assembly with backing flange PP-st inch

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	DN	PN	Code	SP	Weight	D	D1	D3	H	H1	z
(inch)	(mm)	(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(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		2.319	185	140	19	18	10	77
3	80	16	161 486 432		2.905	200	152	19	20	11	85
4	100	16	161 486 433		4.079	229	190	19	20	12	93

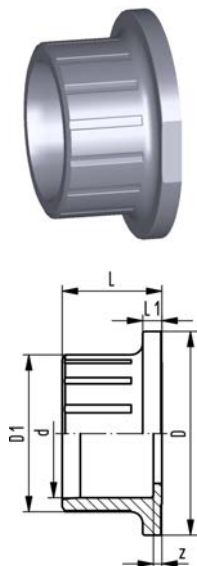


Valve end blank 546 Pro and 543 Pro PVC-U (G80)

Model:

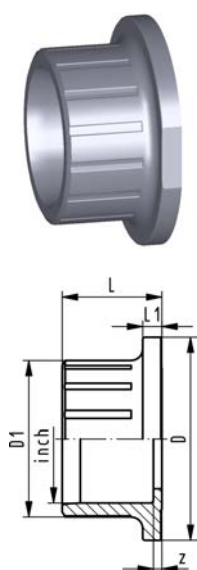
- Flat sealing faces

d	DN	Size	PN	Code	SP	Weight	D	D1	L	L1
(mm)	(mm)	(inch)	(bar)			(kg)	(mm)	(mm)	(mm)	(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	PN	Code	Weight	D1	z	L	D	L1
(mm)	(bar)		(kg)	(mm)	(mm)	(mm)	(mm)	(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	Size	PN	Code	Weight	D	D1	L	L1	z
(mm)	(inch)	(bar)		(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
16	3/8	10	169 480 800	0.007	38	23	18	4	2
20	1/2	10	169 480 801	0.007	38	27	20	4	2
25	3/4	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 1/4	10	169 480 804	0.026	65	51	31	5	2
50	1 1/2	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 1/2	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

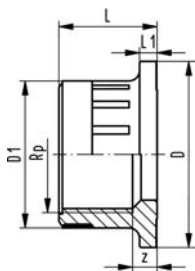


Valve end 546 and 543 ABS (G22)
With threaded socket Rp

Model:

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

Rp	PN	Code	Weight	D	D1	L	L1	z
(inch)	(bar)		(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
3/8	10	169 480 786	0.008	38	24	20	4	7
1/2	10	169 480 787	0.009	38	28	22	4	6
3/4	10	169 480 788	0.014	44	34	25	5	7
1	10	169 480 789	0.023	53	42	28	5	7
1 1/4	10	169 480 790	0.034	65	52	30	5	7
1 1/2	10	169 480 791	0.059	77	63	32	6	9
2	10	169 480 792	0.109	99	78	38	7	10

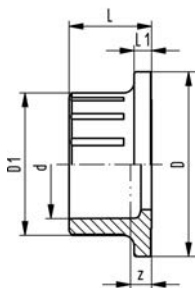


Valve end 546 and 543 ABS (G23) With threaded socket Rp reinforced

Model:

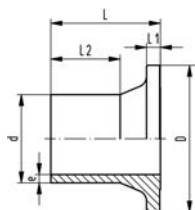
- Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- Do not use thread sealing pastes that are harmful to ABS

Rp (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
3/8	16	169 480 925	0.008	38	24	20	4	7
1/2	16	169 480 926	0.010	38	28	22	4	6
3/4	16	169 480 927	0.014	44	34	25	5	7
1	16	169 480 928	0.023	53	42	28	5	7
1 1/4	16	169 480 929	0.035	65	52	30	5	7
1 1/2	16	169 480 930	0.077	77	63	32	6	9
2	16	169 480 931	0.130	99	78	38	7	10



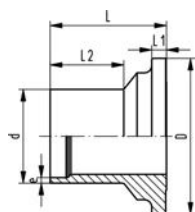
Valve end 546 and 543 PE 100 (G40) With fusion socket metric

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



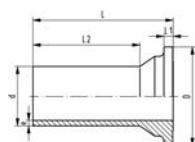
Valve end 546 and 543 PE 100 (G41) With butt fusion spigot IR-Plus® SDR11 metric

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



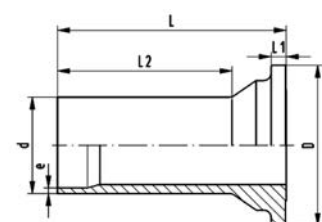
Valve end 546 and 543 PE 100 (G42)
With butt fusion spigot IR-Plus® SDR17,6 metric

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

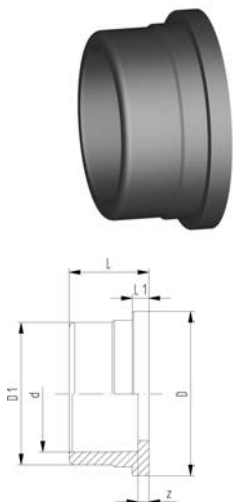


Valve end 546 and 543 PE 100 (G44)
With butt fusion spigot long SDR17,6 metric

Model:

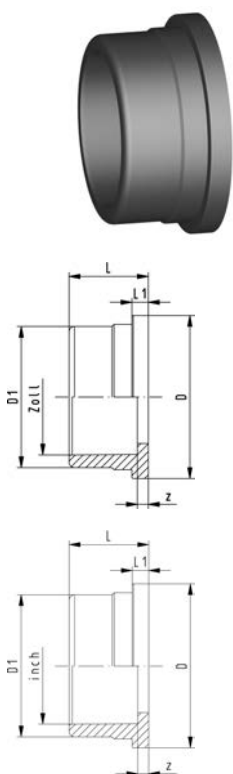
- Material: PE100

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



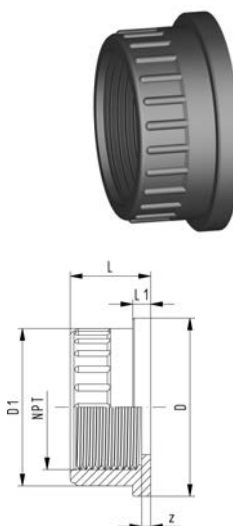
Valve end 375 PVC-U
Solvent cement socket metric

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	0.061	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)
3/8	16	161 375 911	0.012	35	26	18	5	4
1/2	16	161 375 912	0.011	35	29	18	5	2
3/4	16	161 375 913	0.016	43	35	21	5	2
1	16	161 375 914	0.024	51	43	24	6	2
1 1/4	16	161 375 915	0.038	60	52	29	6	2
1 1/2	16	161 375 916	0.066	72	62	34	7	3
2	16	161 375 917	0.113	89	76	41	7	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



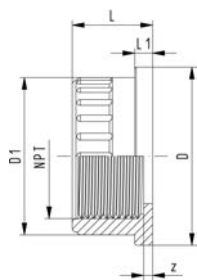
Valve end 375 PVC-U
Threaded socket NPT

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)
3/8	10	161 375 437	0.011	35	26	18	5	5
1/2	10	161 375 438	0.012	35	30	24	5	6
3/4	10	161 375 439	0.019	43	36	21	5	5
1	10	161 375 440	0.027	51	44	24	6	5
1 1/4	10	161 375 441	0.039	60	53	27	6	6
1 1/2	10	161 375 442	0.062	72	64	27	7	6

table continued on the next page



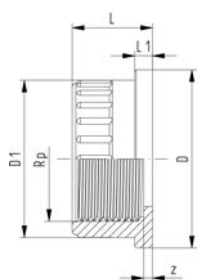
NPT (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
2	10	161 375 443	0.100	89	77	31	7	5
2 ½	10	161 375 444	0.176	115	90	36	8	6
3	10	161 375 445	0.262	133	106	41	10	8
4	10	161 375 446	0.406	166	130	47	12	8



Valve end 375 PVC-U Threaded socket Rp

Model:

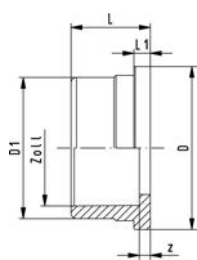
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U



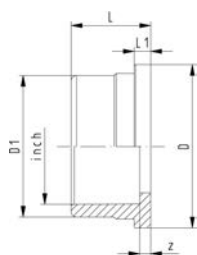
Rp (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
¾	10	161 375 921	0.012	35	26	18	5	7
½	10	161 375 922	0.011	33	30	18	5	3
¾	10	161 375 923	0.017	43	36	21	5	5
1	10	161 375 924	0.027	51	44	24	6	5
1 ¼	10	161 375 925	0.042	60	53	27	6	6
1 ½	10	161 375 926	0.059	72	63	27	7	6
2	10	161 375 927	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)
¾	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

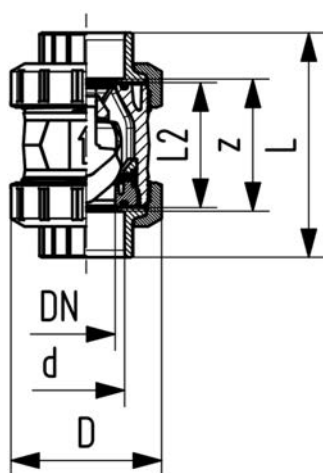
Check Valve Type 561



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



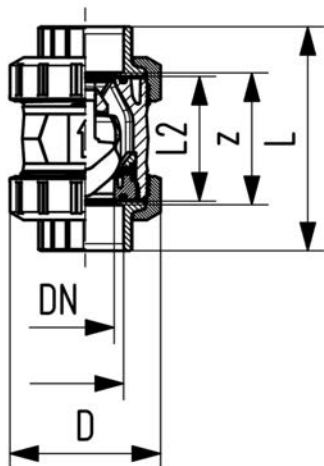
d	DN	PN	kv-value	EPDM	SP	Weight	D	L	L2	z	closest
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code		(kg)	(mm)	(mm)	(mm)	(mm)	inch
			(l/min)								(inch)
32	25	16	460	192 561 004	1	0.290	68	123	71	79	1
63	50	16	1670	192 561 007	1	1.330	124	183	101	107	2



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



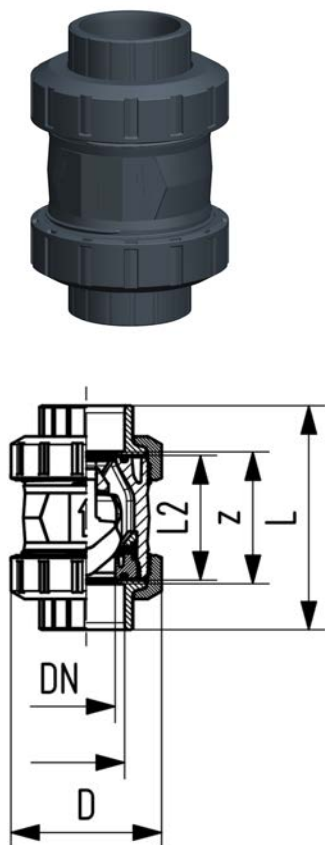
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	$\frac{3}{8}$	16	190	161 561 061	1	0.120	161 561 071	1	0.120
20	15	$\frac{1}{2}$	16	180	161 561 062	1	0.120	161 561 072	1	0.120
25	20	$\frac{3}{4}$	16	380	161 561 063	1	0.250	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 $\frac{1}{4}$	16	850	161 561 065	1	0.490	161 561 075	1	0.490
50	40	1 $\frac{1}{2}$	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 $\frac{1}{2}$	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 $\frac{1}{2}$
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	Thread Type	Size	DN	PN	kv-value	EPDM	SP	Weight
(mm)		(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code		(kg)
					(l/min)			
16	Rp	$\frac{3}{8}$	10	10	190	161 561 021	1	0.130
20	Rp	$\frac{1}{2}$	15	10	180	161 561 022	1	0.130
25	Rp	$\frac{3}{4}$	20	10	380	161 561 023	1	0.260
32	Rp	1	25	10	460	161 561 024	1	0.300
40	Rp	1 $\frac{1}{4}$	32	10	850	161 561 025	1	0.510
50	Rp	1 $\frac{1}{2}$	40	10	1080	161 561 026	1	0.780
63	Rp	2	50	10	1670	161 561 027	1	1.390
75	Rp	2 $\frac{1}{2}$	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

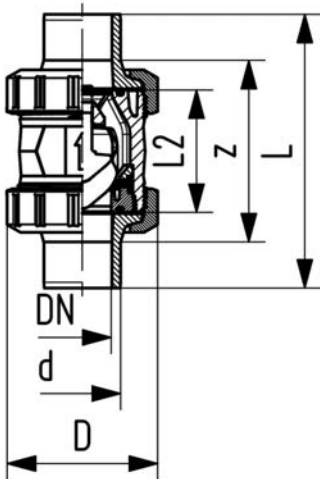
FKM	SP	Weight	D	L	L2	z
Code		(kg)	(mm)	(mm)	(mm)	(mm)
161 561 031	1	0.130	50	95	56	69
161 561 032	1	0.130	50	100	56	67
161 561 033	1	0.280	58	114	65	78
161 561 034	1	0.300	68	127	71	85
161 561 035	1	0.520	84	146	85	100
161 561 036	1	0.790	97	152	89	106
161 561 037	1	1.400	124	177	101	121
161 561 038	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 ($\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	$\frac{3}{8}$	16	190	161 561 041	1	0.130	161 561 051	1	0.130
20	15	$\frac{1}{2}$	16	180	161 561 042	1	0.130	161 561 052	1	0.130
25	20	$\frac{3}{4}$	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 $\frac{1}{4}$	16	850	161 561 045	1	0.530	161 561 055	1	0.530
50	40	1 $\frac{1}{2}$	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 $\frac{1}{2}$	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	$\frac{3}{8}$
20	50	124	56	$\frac{1}{2}$
25	58	144	65	$\frac{3}{4}$
32	68	154	71	1
40	84	174	85	1 $\frac{1}{4}$
50	97	194	89	1 $\frac{1}{2}$
63	124	224	101	2
75	166	284	136	2 $\frac{1}{2}$
90	200	300	141	3
110	238	340	164	4

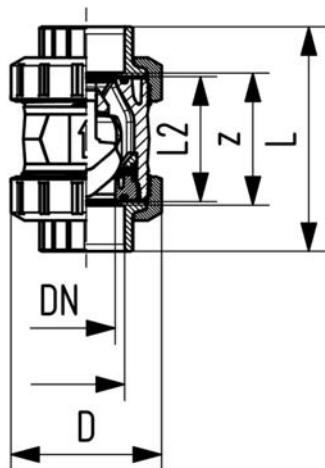
Check Valve Type 562



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 ($\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	¾	10	16	190	161 562 061	1	0.120	161 562 071	1	0.120
20	½	15	16	180	161 562 062	1	0.120	161 562 072	1	0.120
25	¾	20	16	380	161 562 063	1	0.250	161 562 073	1	0.270
32	1	25	16	460	161 562 064	1	0.280	161 562 074	1	0.280
40	1 ¼	32	16	850	161 562 065	1	0.490	161 562 075	1	0.490
50	1 ½	40	16	1080	161 562 066	1	0.760	161 562 076	1	0.770
63	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
90	3	80	16	3600	161 562 069	1	5.070	161 562 079	1	5.090
110	4	100	16	4150	161 562 070	1	8.010	161 562 080	1	8.050

D (mm)	L (mm)	L2 (mm)	z (mm)
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
200	254	141	151
238	301	164	174



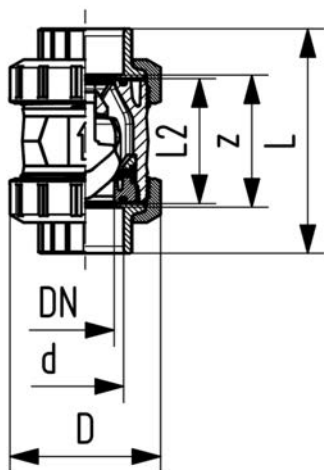
Check valve type 562 PVC-U With solvent cement sockets Inch BS With Halar coated spring

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



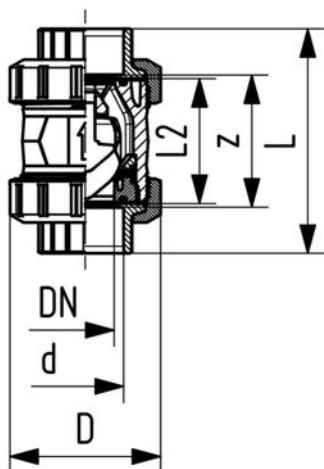
Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	FKM Code	Weight (kg)	D (mm)	L (mm)	L2 (mm)	z (mm)
3/8	10	16	190	800 048 864	800 048 869	0.120	50	92	56	60
1/2	15	16	180	800 048 865	800 048 870	0.130	50	95	56	60
3/4	20	16	380	800 048 726	800 048 871	0.250	58	110	65	69
1	25	16	460	800 048 825	800 048 872	0.320	68	123	71	75
1 1/4	32	16	850	800 048 866	800 048 873	0.490	84	146	85	89
1 1/2	40	16	1080	800 048 867	800 048 874	0.810	97	157	89	97
2	50	16	1670	800 048 826	800 048 875	1.530	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	5.520	200	254	141	151
4	100	16	4150	800 048 727	800 048 878	8.930	238	301	164	174



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

Model:

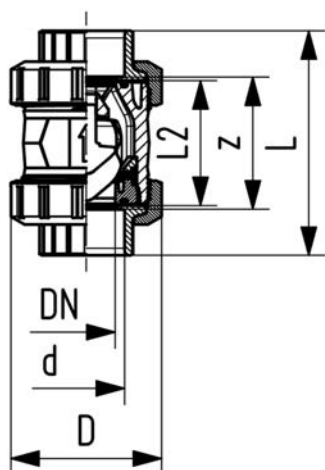
- For horizontal or vertical installation
- Sealing at a minimum water column of 1m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized 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 ($\Delta p=1$ 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	3/8
20	50	95	56	64	1/2
25	58	110	65	72	3/4

table continued on the next page



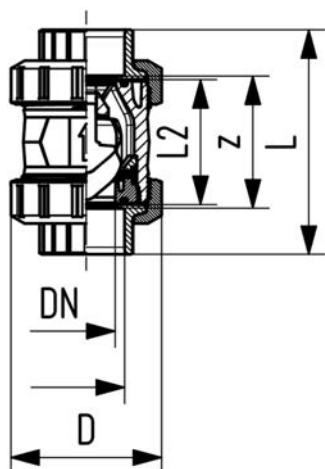
d	D	L	L2	z	closest inch (inch)
(mm)	(mm)	(mm)	(mm)	(mm)	
32	68	123	71	79	1
40	84	146	85	94	1 ¼
50	97	157	89	95	1 ½
63	124	183	101	107	2
75	166	233	136	144	2 ½
90	200	254	141	151	3
110	238	301	164	174	4



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

Model:

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



NPT	DN	PN	kv-value	EPDM	SP	Weight	FKM	SP	Weight
(inch)	(mm)	(bar)	(Δp=1 bar)	Code		(kg)	Code		(kg)
			(l/min)						
⅜	10	16	190	161 562 101	1	0.130	161 562 111	1	0.130
½	15	16	180	161 562 102	1	0.130	161 562 112	1	0.130
¾	20	16	380	161 562 103	1	0.260	161 562 113	1	0.280
1	25	16	460	161 562 104	1	0.300	161 562 114	1	0.300
1 ¼	32	16	850	161 562 105	1	0.510	161 562 115	1	0.510
1 ½	40	16	1080	161 562 106	1	0.750	161 562 116	1	0.760
2	50	16	1670	161 562 107	1	1.330	161 562 117	1	1.330
2 ½	65	16	2950	161 562 108	1	3.230	161 562 118	1	3.250
3	80	16	3600	161 562 109	1	5.080	161 562 119	1	5.100
4	100	16	4150	161 562 110	1	8.150	161 562 120	1	8.190

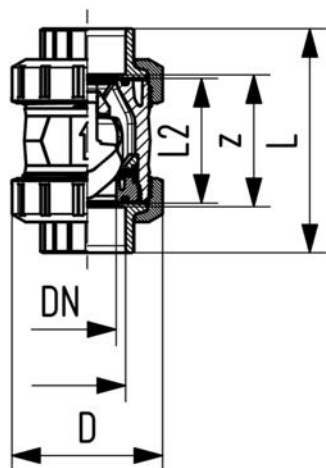
NPT	D	L	L2	z
(inch)	(mm)	(mm)	(mm)	(mm)
⅜	50	105	56	67
½	50	105	56	61
¾	58	121	65	70
1	68	133	71	76
1 ¼	84	154	85	90
1 ½	97	164	89	94
2	124	183	101	107
2 ½	166	233	136	144
3	200	254	141	151
4	238	301	164	174



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



d (mm)	Rp (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	3/8	10	10	190	161 562 021	1	0.130	161 562 031	1	0.130
20	1/2	15	10	180	161 562 022	1	0.130	161 562 032	1	0.130
25	3/4	20	10	380	161 562 023	1	0.260	161 562 033	1	0.280
32	1	25	10	460	161 562 024	1	0.300	161 562 034	1	0.300
40	1 1/4	32	10	850	161 562 025	1	0.510	161 562 035	1	0.520
50	1 1/2	40	10	1080	161 562 026	1	0.780	161 562 036	1	0.790
63	2	50	10	1670	161 562 027	1	1.390	161 562 037	1	1.400
75	2 1/2	65	10	2950	161 562 028	1	3.800	161 562 038	1	3.820
90	3	80	10	3600	161 562 029	1	5.160	161 562 039	1	5.180
110	4	100	10	4150	161 562 030	1	8.140	161 562 040	1	8.180

D (mm)	L (mm)	L2 (mm)	z (mm)
50	95	56	69
50	100	56	67
58	114	65	78
68	127	71	85
84	146	85	100
97	152	89	106
124	177	101	121
166	233	136	144
200	254	141	151
238	301	164	174

Spare parts



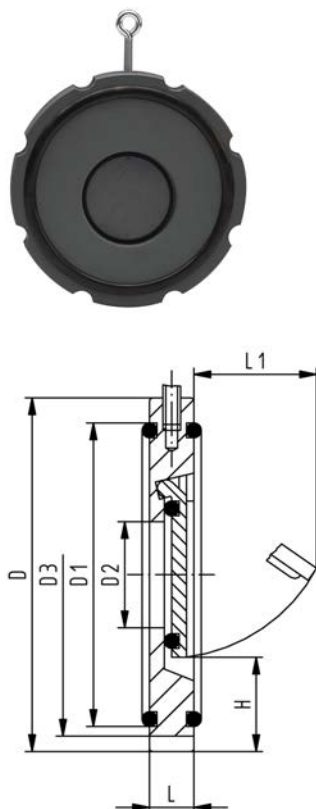
Spring (8)

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	3/8	10	161 485 132	0.005	161 485 142	0.005	161 485 152	0.005
20	1/2	15	161 485 132	0.005	161 485 142	0.005	161 485 152	0.005
25	3/4	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 1/4	32	161 485 134	0.002	161 485 144	0.002	161 485 154	0.002
50	1 1/2	40	161 485 135	0.002	161 485 145	0.002	161 485 155	0.002
63	2	50	161 485 136	0.003	161 485 146	0.003	161 485 156	0.003
75	2 1/2	65	161 485 137	0.003	161 485 147	0.003	161 485 157	0.003
90	3	80	161 485 138	0.004	161 485 148	0.004	161 485 158	0.004
110	4	100	161 485 139	0.004	161 485 149	0.004	161 485 159	0.004

Wafer check valves



Wafer check valve type 369 PVC-U Without spring

Model:

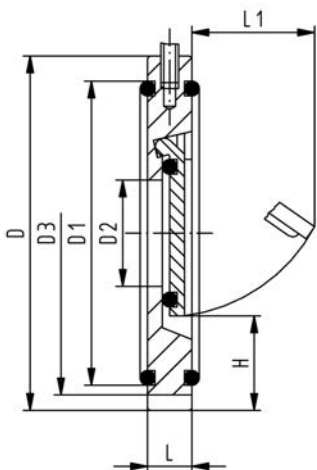
- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

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	Size	DN	PN	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(inch)	(mm)	(bar)	Code		(kg)	Code		(kg)
40	1 1/4	32	10	161 369 002	1	0.110	161 369 022	1	0.108
50	1 1/2	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 1/2	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	D	D1	D2	D3	H	L	L1	Opening pressure vertical	Opening pressure horizontal	Minimum water column for sealing
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mbar)	(mbar)	(m)
40	85	59	18		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:

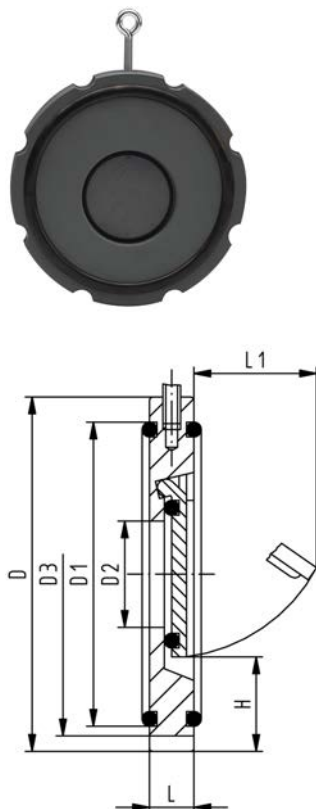
- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

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	Size	DN	PN	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(inch)	(mm)	(bar)	Code		(kg)	Code		(kg)
40	1 1/4	32	10	161 369 042	1	0.130	161 369 062	1	0.107
50	1 1/2	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 1/2	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	D	D1	D2	D3	H	L	L1	Opening pressure vertical	Opening pressure horizontal	Minimum water column for sealing
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mbar)	(mbar)	(m)
40	85	59	18		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

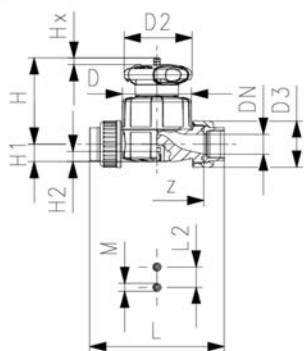
Installation instruction:

- 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	Size	DN	PN	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(inch)	(mm)	(bar)	Code		(kg)	Code		(kg)
40	1 1/4	32	10	161 369 082	1	0.130	161 369 102	1	0.130
50	1 1/2	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 1/2	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	D	D1	D2	D3	H	L	L1	Opening pressure vertical	Opening pressure horizontal	Minimum water column for sealing
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mbar)	(mbar)	(m)
40	85	59	18		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

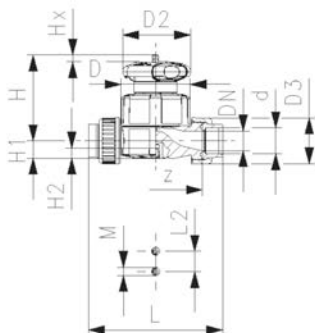
Option:

- 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 ($\Delta p=1$ 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

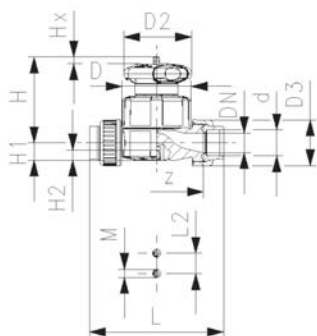
Option:

- 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 ($\Delta p=1$ bar) (l/min)	NBR Code	SP	Weight (kg)	EPDM Code	SP	Weight (kg)
16	10	10	125	161 514 001	1	0.324	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	$\frac{3}{8}$
20	65	65	43	73	14	12	128	25	M6	96	7	$\frac{1}{2}$
25	80	65	51	81	18	12	152	25	M6	114	10	$\frac{3}{4}$
32	88	87	58	107	22	12	166	25	M6	122	13	1
40	101	87	72	115	26	15	192	45	M8	140	15	1 $\frac{1}{4}$
50	117	135	83	148	32	15	222	45	M8	160	19	1 $\frac{1}{2}$
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:

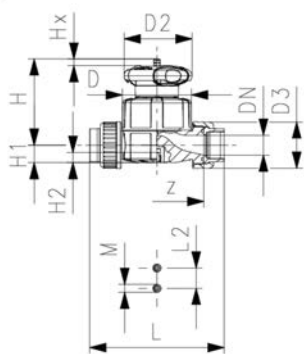
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Not recommended for oxidizing acids
- For easy installation and removal
- Short overall length

Option:

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

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)	PTFE/EPDM Code	SP	Weight (kg)
20	15	16	125	800 047 166	1	0.354	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

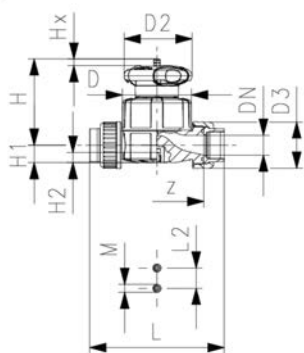
Model:

- 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 ($\Delta p=1$ 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



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



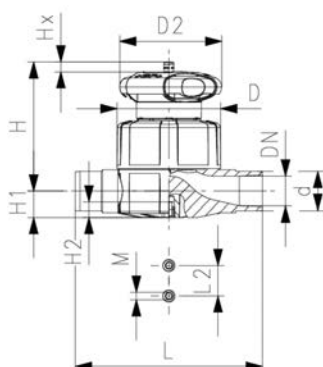
Diaphragm valve type 515 PVC-U With solvent cement spigots metric

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 517 PVC-U With backing flanges PVC-U Inch ANSI

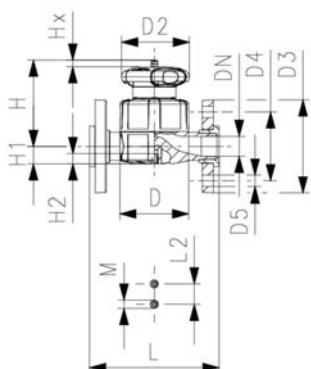
Model:

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

Option:

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

* O-Ring material: FK



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	161 517 612	1 0.489
25	20	¾	10	271	161 517 613	1 0.653
32	25	1	10	481	161 517 614	1 1.336
40	32	1 ¼	10	759	161 517 615	1 1.721
50	40	1 ½	10	1263	161 517 616	1 2.862
63	50	2	10	1728	161 517 617	1 3.777

FKM Code	PTFE/EPDM Code	SP Weight (kg)
161 517 662	161 517 632	1 0.499
161 517 663	161 517 633	1 0.664
161 517 664	161 517 634	1 1.356
161 517 665	161 517 635	1 1.741
161 517 666	161 517 636	1 2.892
161 517 667	161 517 637	1 2.960

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



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)

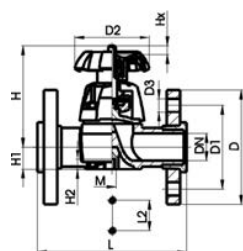
* DN80, DN100 and DN150 fixed flanges metric and inch ANSI B16.5



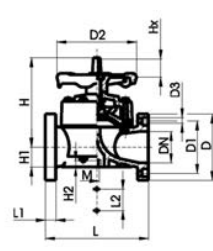
d (mm)	DN (mm)	Size (inch)	PN (bar)	NBR Code	EPDM Code	FKM Code	PTFE with EPDM supp. diaphragm Code	Weight (kg)
75	65	2 ½	10	161 317 608	161 317 623	161 317 668	161 317 638	4.300
* 90	80	3	10	161 317 009	161 317 024	161 317 069	161 317 039	10.251
* 110	100	4	6	161 317 010	161 317 025	161 317 070	161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

table continued on the next page

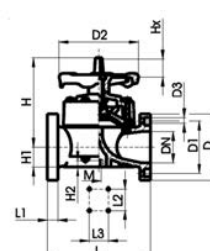
	D	D1	D2	D3	H	H1	H2	L	L1	L2	L3	M	Lift = Hx	AL
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	
	185	140	152	19	201	46	15	290		70		M8	30	4
*	200	152	270	19	265	57	23	310	35	120		M12	40	4
*	225	191	270	19	304	69	23	350	35	120		M12	50	8
*	282	240	400	23	437	108	23	480	26	100	200	M12	70	8



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:

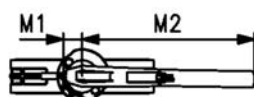
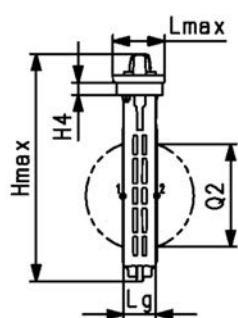
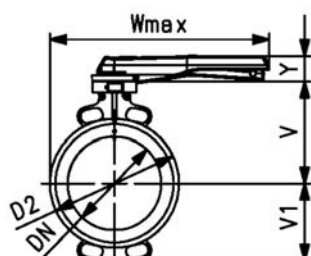
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Lockable ergonomic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

Option:

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

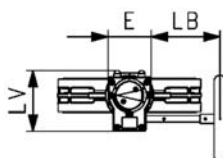
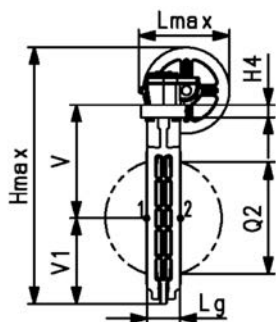
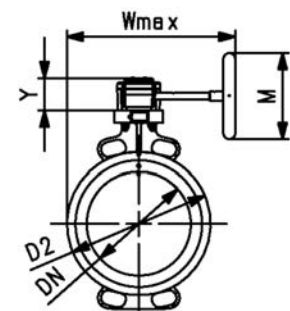
Note:

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



d	Size	DN	PN	kv-value	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code		(kg)	Code		(kg)
63	2	50	16	1445	199 565 000	1	1.3	199 565 020	1	1.4
75	2 1/2	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	D2	Wmax	Hmax	Lmax	H4	V	V1	Lg	M1	M2	Y	Q2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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	DN	Size	PN	kv-value	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code		(kg)	Code		(kg)
				(l/min)						
63	50	2	16	1445	199 565 200	1	3.0	199 565 220	1	3.1
75	65	2 1/2	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	D2	Wmax	Hmax	Lmax	H4	V	V1	Lg	E	LB	LV	M	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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	Q2
(mm)	(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:

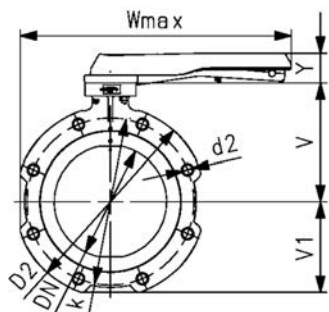
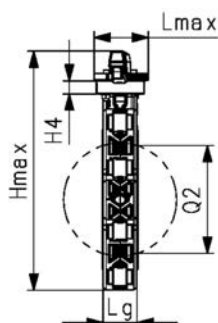
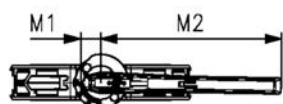
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

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-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	16	1445	199 576 000	2.035	199 576 020	2.104
75	65	2 1/2	16	2530	199 576 001	2.355	199 576 021	2.457
90	80	3	16	4020	199 576 002	2.850	199 576 022	2.973
110	100	4	16	5850	199 576 003	4.145	199 576 023	4.321
140	125	5	16	11900	199 576 004	5.056	199 576 024	5.316
160	150	6	16	18050	199 576 005	6.107	199 576 025	6.425
225	200	8	10	43667	199 576 006	7.855	199 576 026	8.311

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

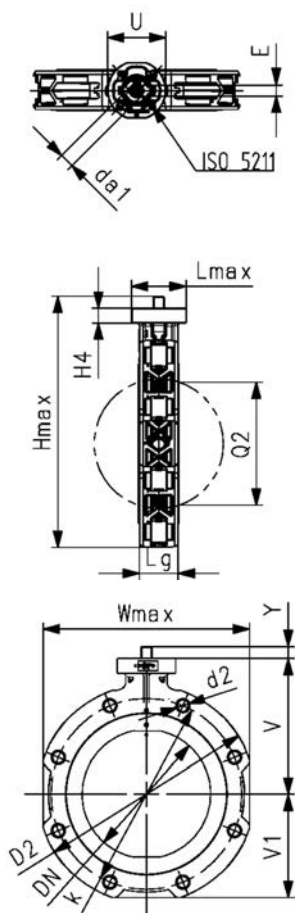
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

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



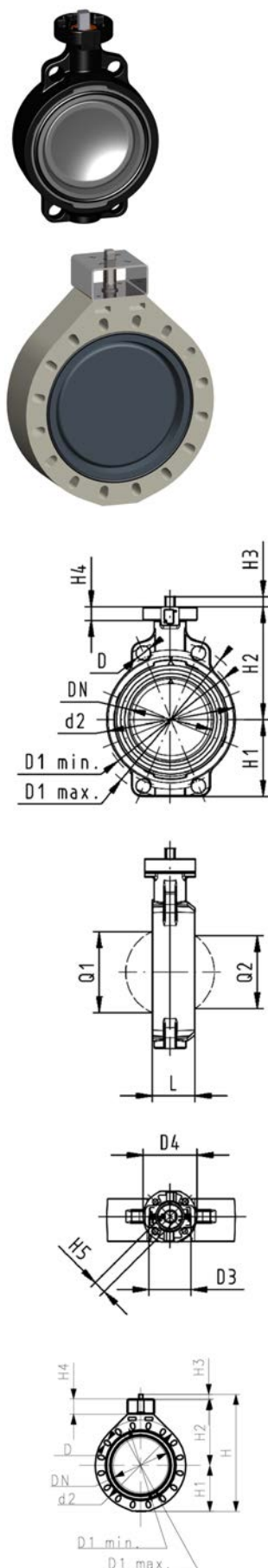
d (mm)	DN (mm)	Size (inch)	PN (bar)	Acc.to ISO 5211	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	16	F07	199 575 100	1.571	199 575 120	1.640
75	65	2 ½	16	F07	199 575 101	1.892	199 575 121	1.994
90	80	3	16	F07	199 575 102	2.410	199 575 122	2.533
110	100	4	16	F07	199 575 103	3.509	199 575 123	3.749
140	125	5	16	F07	199 575 104	4.715	199 575 124	4.975
160	150	6	16	F07	199 575 105	5.433	199 575 125	5.751
225	200	8	10	F07	199 575 106	7.168	199 575 126	7.624
280	250	10	10	F10	199 575 107	12.881	199 575 127	13.561
315	300	12	6	F10	199 575 108	18.286	199 575 128	19.416

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	401.6	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	Size	DN	PN	kv-value	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code		(kg)	Code		(kg)
				(l/min)						
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	d2	D	D1	D1	D3	D4	H	H1	H2	H3	H4	H5	L	L1
(mm)	(mm)	(mm)	min.	max.	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
			(mm)	(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

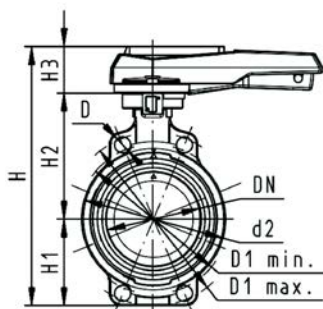
d	L2	L3	L4	Q1	Q2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	112	179		40	
75	112	179		54	35
90	112	179		67	50
110	112	179		88	74
140	112	179		113	97
160	112	179		139	123
225	112	179		178	169
280	130	198		210	207
315	130	198		256	253



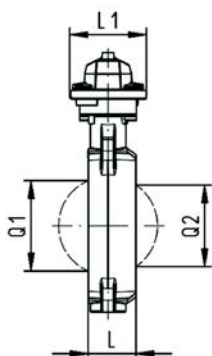
Wafer-style, intermediate installation butterfly valve type 567 PVC-U
With hand lever
Flange standard metric/ANSI/BS/JIS

Model:

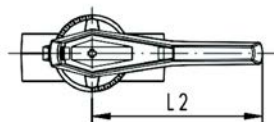
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum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



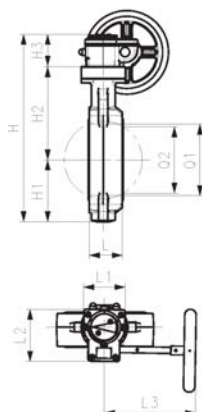
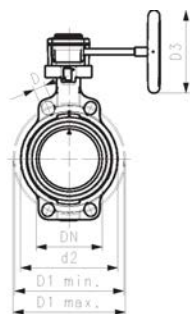
d	Size	DN	PN	kv-value	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code		(kg)	Code		(kg)
				(l/min)						
63	2	50	10	740	161 567 002	1	1.653	161 567 022	1	1.259
75	2 ½	65	10	1500	161 567 003	1	1.352	161 567 023	1	1.799
90	3	80	10	2400	161 567 004	1	1.515	161 567 024	1	1.534
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	d2	D	D1 min.	D3	D1 max.	H	H1	H2	H3	L	L1	L2	L3	Q1
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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	Q2
(mm)	(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	Size	DN	PN	kv-value	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code		(kg)	Code		(kg)
				(l/min)						
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	d2	D	D1	D1	D3	H	H1	H2	H3	L	L1	L2	L3	Q1
(mm)	(mm)	(mm)	min.	max.	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
			(mm)	(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	Q2
(mm)	(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

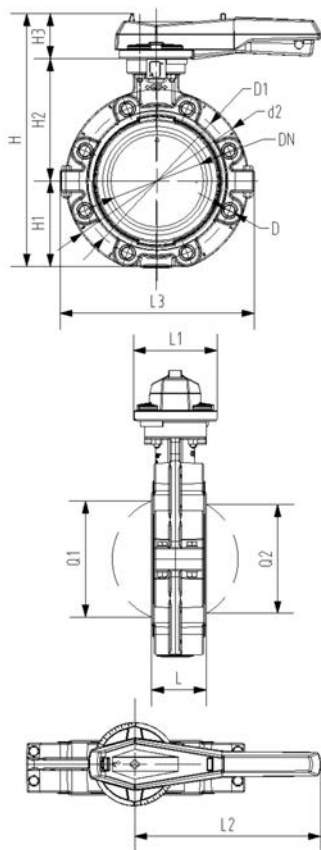
Flange standard ANSI/ASME

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 separately)



d	Size	DN	PN	kv-value	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code		(kg)	Code		(kg)
				(l/min)						
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	D	D1	H	H1	H2	H3	L	L1	L2	L3	Q1	Q2
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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



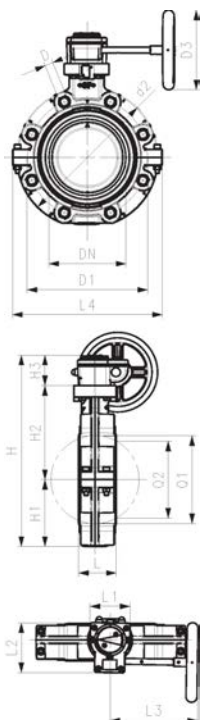
Lug-style, end installation butterfly valve type 578 PVC-U
With gear box
Flange standard ANSI/ASME

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:

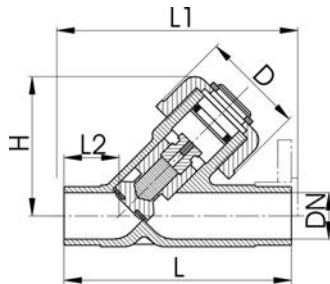
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)



d	Size	DN	PN	kv-value	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code		(kg)	Code		(kg)
				(l/min)						
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	D	D1	H	H1	H2	H3	H4	L	L1	L2	L3	L4	Q1	Q2
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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



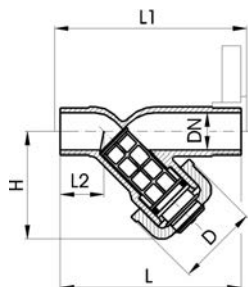
Angle seat check valve type 303 PVC-U With solvent cement spigots metric

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	¾
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

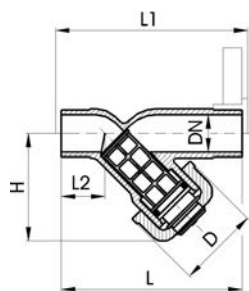
Model:

- 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

table continued on the next page



Size	D	H	L	L1	L2
(inch)	(mm)	(mm)	(mm)	(mm)	(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	Size	DN	kv-value	Code	SP	Weight	D	L
(mm)	(inch)	(mm)	($\Delta p=1$ bar)			(kg)	(mm)	(mm)
			(l/min)					
20	¾	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	DN	Size	kv-value	Code	SP	Weight	D	L	closest
(mm)	(mm)	(inch)	($\Delta p=1$ bar)			(kg)	(mm)	(mm)	inch
			(l/min)						(inch)
20	15	¾	35	161 305 338	10	0.005	14	39	½
25	20	¾	65	161 305 388	10	0.025	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	DN	Size	kv-value	Code	SP	Weight	D	L	closest
(mm)	(mm)	(inch)	($\Delta p=1$ bar)			(kg)	(mm)	(mm)	inch
			(l/min)						(inch)
20	15	¾	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 ($\Delta p=1$ 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

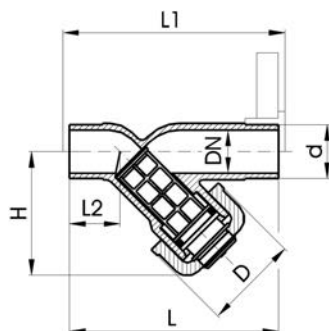


Cylindrical screen type 305 PVC-U
Screen perforations 2.2 mm

- For line strainers Type 305

d (mm)	DN (mm)	Size (inch)	kv-value ($\Delta p=1$ 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



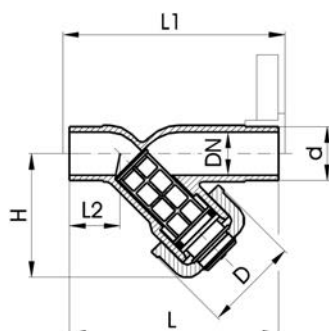
Line strainer type 305 PVC-U
With solvent cement spigots metric

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

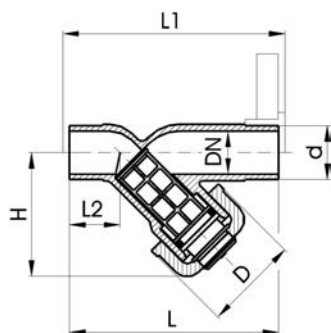
Model:

- 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

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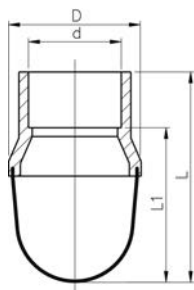


d	D	H	L	L1	L2	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
						(inch)
50	82	124	194	200	48	1 ½
63	95	148	224	230	60	2
75	106	188	284	290	74	2 ½
90	120	205	300	310	85	3

Screen assemblies



DN 15 - 50

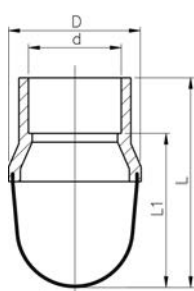


DN 15-50

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

d (mm)	Size (inch)	DN (mm)	kv-value ($\Delta p=1$ bar) (l/min)	Code	SP	Weight (kg)	D (mm)	L (mm)	L1 (mm)	perforations ϕ (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

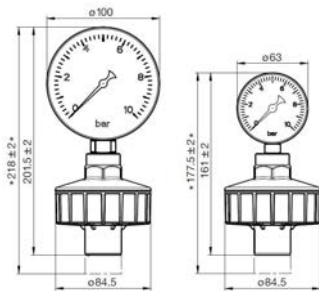
Screen assembly type 050 PVC-U Complete with barrel nipple metric/ASTM



DN 15-50

Size (inch)	DN (mm)	kv-value ($\Delta p=1$ bar) (l/min)	Code	SP	Weight (kg)	D (mm)	L (mm)	L1 (mm)	perforations ϕ (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



Gauge guard type Z500/501 PVC-U

Z500 with manometer, Z501 without manometer

Model:

- Connections spigots with inner thread: d25 with G 1/4" and d32 with G 1/2"

d (mm)	D (mm)	Type	Manometer	PTFE Code	SP	Weight (kg)
25		501	no	199 042 000	1	0.144
32		501	no	199 042 001	1	0.261
25	63	500	yes	199 042 010	1	0.271
32	100	500	yes	199 042 011	1	0.633
25	63	500	yes	199 042 020	1	0.500
25	63	500	yes	199 042 030	1	0.267
32	100	500	yes	199 042 031	1	0.657
32	63	500	yes	199 042 040	1	0.400

d (mm)	Material	Manometer connection (inch)	Pressure range (bar)
25		G 1/4"	
32		G 1/2"	
25	brass	G 1/4"	0 - 10
32	brass	G 1/2"	0 - 10
25	steel	G 1/4"	0 - 10
25	brass	G 1/4"	0 - 6
32	brass	G 1/2"	0 - 6
32	steel	G 1/2"	0 - 6

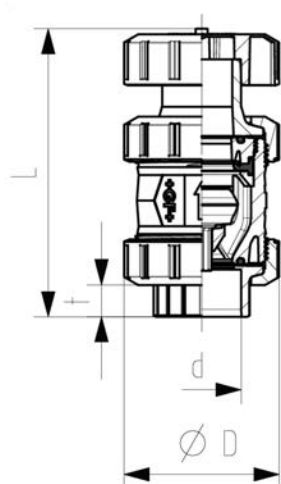
Process control valves



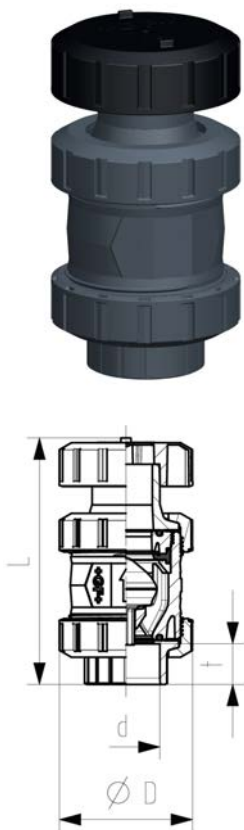
Ventilating and bleed valve
Type 591 PVC-U
With solvent cement sockets Inch BS

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	DN	Size	PN	EPDM	FKM	D	L	t	closest inch
(mm)	(mm)	(inch)	(bar)	Code	Code	(mm)	(mm)	(mm)	(inch)
16	10	3/8	16	161 591 061	161 591 071	50	118	16	
20	15	1/2	16	161 591 062	161 591 072	50	124	18	
25	20	3/4	16	161 591 063	161 591 073	58	142	21	
32	25	1	16	161 591 064	161 591 074	68	157	24	
40	32	1 1/4	16	161 591 065	161 591 075	84	179	29	
50	40	1 1/2	16	161 591 066	161 591 076	97	197	30	
63	50	2	16	161 591 067	161 591 077	124	229	36	
75	65	2 1/2	16	161 591 008	161 591 018	166	258	45	2 1/2
90	80	3	16	161 591 069	161 591 079	200	277	51	
110	100	4	16	161 591 070	161 591 080	238	320	64	

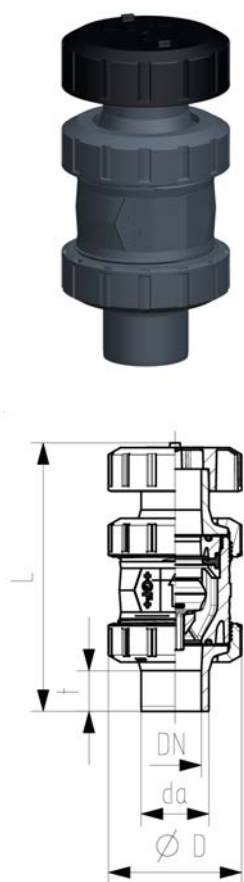


Ventilating and bleed valve
Type 591 PVC-U
With solvent cement sockets metric

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	$\frac{3}{8}$
20	15	16	161 591 002	161 591 012	50	124	16	$\frac{1}{2}$
25	20	16	161 591 003	161 591 013	58	142	19	$\frac{3}{4}$
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 $\frac{1}{4}$
50	40	16	161 591 006	161 591 016	97	197	31	1 $\frac{1}{2}$
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 $\frac{1}{2}$
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

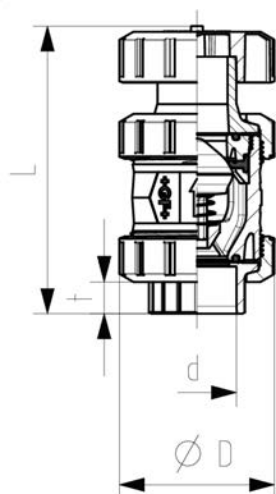
d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	16	161 591 041	161 591 051	50	129	14	$\frac{3}{8}$
20	15	16	161 591 042	161 591 052	50	139	16	$\frac{1}{2}$
25	20	16	161 591 043	161 591 053	58	160	19	$\frac{3}{4}$
32	25	16	161 591 044	161 591 054	68	172	22	1
40	32	16	161 591 045	161 591 055	84	193	26	1 $\frac{1}{4}$
50	40	16	161 591 046	161 591 056	97	215	31	1 $\frac{1}{2}$
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 $\frac{1}{2}$
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	DN	Size	PN	EPDM	FKM	D	L	t	closest inch
(mm)	(mm)	(inch)	(bar)	Code	Code	(mm)	(mm)	(mm)	(inch)
16	10	3/8	16	161 595 061	161 595 071	50	118	16	
20	15	1/2	16	161 595 062	161 595 072	50	124	18	
25	20	3/4	16	161 595 063	161 595 073	58	142	21	
32	25	1	16	161 595 064	161 595 074	68	157	24	
40	32	1 1/4	16	161 595 065	161 595 075	84	179	29	
50	40	1 1/2	16	161 595 066	161 595 076	97	197	30	
63	50	2	16	161 595 067	161 595 077	124	229	36	
75	65	2 1/2	16	161 595 008	161 595 018	166	258	45	2 1/2
90	80	3	16	161 595 069	161 595 079	200	277	51	
110	100	4	16	161 595 070	161 595 080	238	320	64	

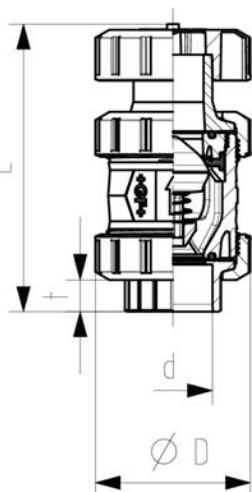


Ventilating valve type 595 PVC-U With solvent cement sockets metric

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	$\frac{3}{8}$
20	15	16	161 595 002	161 595 012	50	124	16	$\frac{1}{2}$
25	20	16	161 595 003	161 595 013	58	142	19	$\frac{3}{4}$
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 $\frac{1}{4}$
50	40	16	161 595 006	161 595 016	97	197	31	1 $\frac{1}{2}$
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 $\frac{1}{2}$
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

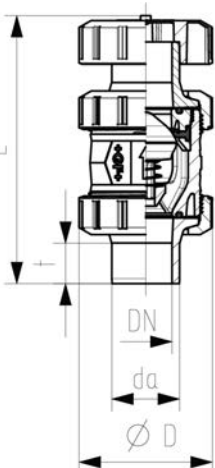


Ventilating valve type 595 PVC-U With solvent cement spigots metric

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	$\frac{3}{8}$
20	15	16	161 595 042	161 595 052	50	139	16	$\frac{1}{2}$
25	20	16	161 595 043	161 595 053	58	160	19	$\frac{3}{4}$
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 $\frac{1}{4}$
50	40	16	161 595 046	161 595 056	97	215	31	1 $\frac{1}{2}$
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 $\frac{1}{2}$
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



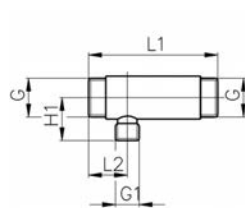


Water jet suction pump type P20 PVC-U

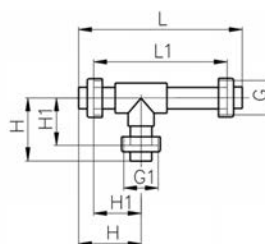
- DN 10-20: BSP parallel female thread and solvent cement socked metric with EPDM o-rings
- DN 25-50: Solvent cement socket metric with EPDM o-rings
- DN 65-80: Solvent cement spigot metric without o-rings

d	DN	Size	PN	Code	SP	Weight
(mm)	(mm)	(inch)	(bar)			(kg)
16	10	3/8	10	199 041 120		0.138
20	15	1/2	10	199 041 121		0.228
25	20	3/4	10	199 041 122	1	0.363
32	25	1	10	199 041 123		0.468
40	32	1 1/4	10	199 041 124		0.841
50	40	1 1/2	10	199 041 125		1.360
63	50	2	10	199 041 126	1	2.440
75	65	2 1/2	10	199 041 127		2.313
90	80	3	10	199 041 128	1	4.090

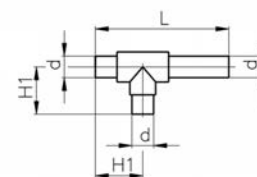
d	H	H1	L	L1	L2	closest inch	G1	G
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)	(inch)	(inch)
16		35		110	40	3/8	3/8	R 3/4
20		35		125	40	1/2	3/8	R 1
25		45		145	45	3/4	3/4	R 1 1/4
32	96	71	245	195		1	1 1/2	R 1 1/2
40	116	87	297	239		1 1/4	2	R 2
50	139	105	369	301		1 1/2	2 1/4	R 2 1/4
63	169	128	433	351		2	2 3/4	R 2 3/4
75		115	388			2 1/2		
90		149	465			3		



DN 10 - 20



DN 25 - 50



DN 65 - 80

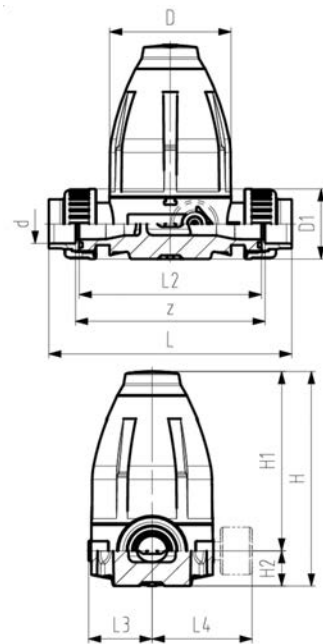
Pressure regulating valves

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	DN	Size	PN	O-rings	Weight	SP	O-rings
(mm)	(mm)	(inch)	(bar)	EPDM	(kg)		FKM
				Code			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	D1	H	H1	H2	H3	L	L2	L3	L4	M	z	Inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(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

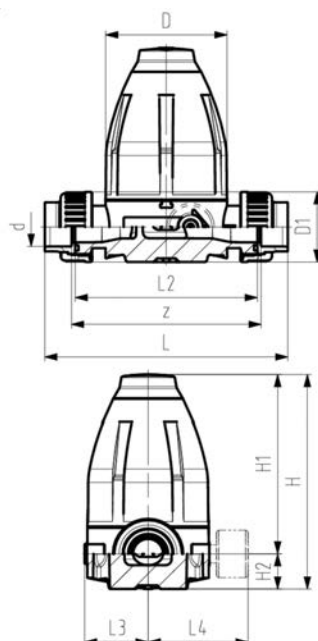


Pressure reducing valve type 582 PVC-U
Unions with solvent cement sockets metric
With manometer

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	DN	Size	PN	O-rings	Weight	SP	O-rings
(mm)	(mm)	(inch)	(bar)	EPDM	(kg)		FKM
				Code			Code
16	10	3/8	10	161 582 121	0.724	1	161 582 131
20	15	1/2	10	161 582 122	0.730	1	161 582 132
25	20	3/4	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 1/4	10	161 582 125	4.100	1	161 582 135
50	40	1 1/2	10	161 582 126	4.270	1	161 582 136
63	50	2	10	161 582 127	4.500	1	161 582 137

d	D	D1	H	H1	H2	H3	L	L2	L3	L4	M	z	closest inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(inch)
16	79	43	132	111	21	12	200	120	42	77	M6	172	3/8
20	79	43	132	111	21	12	158	120	42	77	M6	126	1/2
25	100	51	177	148	29	14	194	150	53	88	M6	156	3/4
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 1/4
50	147	83	251	207	44	21	273	205	76	111	M8	211	1 1/2
63	147	101	251	207	44	21	287	205	76	111	M8	211	2



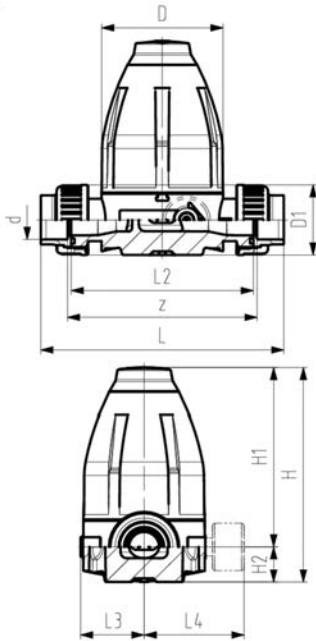
Pressure reducing valve type 582 PVC-U
Unions with solvent cement sockets Inch BS
Without manometer

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



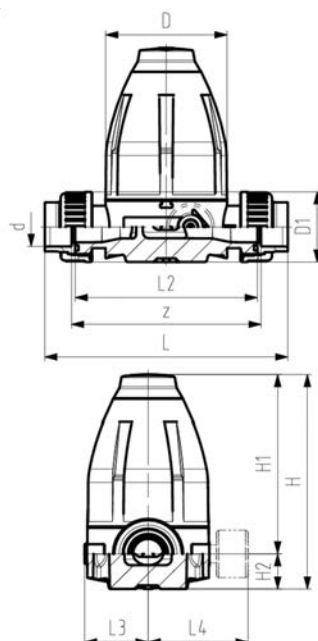
Pressure reducing valve type 582 PVC-U Unions with solvent cement sockets metric Without manometer

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	O-rings FKM Code
16	10	3/8	10	161 582 101	0.694	1	161 582 111
20	15	1/2	10	161 582 102	0.700	1	161 582 112
25	20	3/4	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 1/4	10	161 582 105	4.070	1	161 582 115
50	40	1 1/2	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	3/8
20	79	43	132	111	21	12	158	120	42	M6	126	1/2
25	100	51	177	148	29	14	194	150	53	M6	156	3/4
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 1/4
50	147	83	251	207	44	21	273	205	76	M8	211	1 1/2
63	147	101	251	207	44	21	287	205	76	M8	211	2

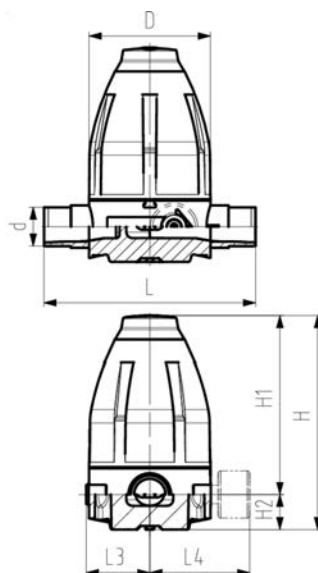


Pressure reducing valve type 582 PVC-U With solvent cement spigots metric With manometer

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.

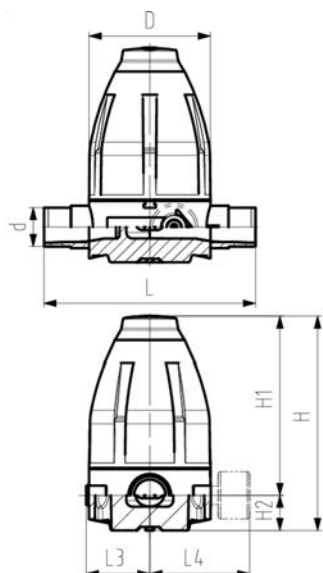
0.3-3.0 bar (4-44 psi) on request



d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	SP	O-rings FKM Code
16	10	3/8	10	161 582 021	0.650	1	161 582 031
20	15	1/2	10	161 582 022	0.660	1	161 582 032
25	20	3/4	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 1/4	10	161 582 025	3.960	1	161 582 035
50	40	1 1/2	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	3/8
20	79	132	111	21	12	134	42	77	M6	1/2
25	100	177	148	29	14	174	53	88	M6	3/4

table continued on the next page



d	D	H	H1	H2	H3	L	L3	L4	M	closest inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(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



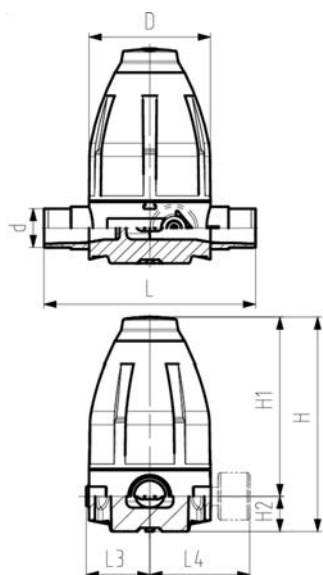
Pressure reducing valve type 582 PVC-U
With solvent cement spigots metric
Without manometer

Model:

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

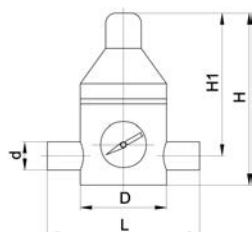
0.3-3.0 bar (4-44 psi) on request

Manometer on request



d	DN	Size	PN	O-rings	Weight	O-rings	SP
(mm)	(mm)	(inch)	(bar)	EPDM	(kg)	FKM	
				Code		Code	
16	10	¾	10	161 582 001	0.620	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	D	H	H1	H2	H3	L	L3	M	closest inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(inch)
16	79	132	111	21	12	134	42	M6	¾
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

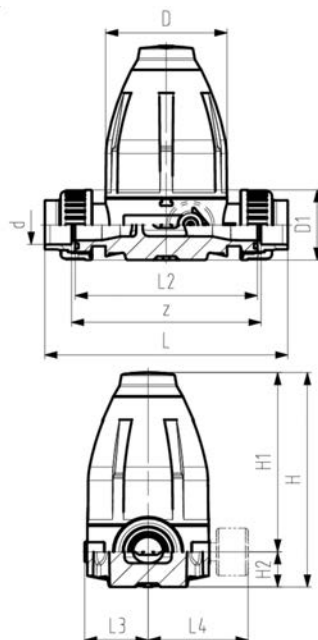


Pressure reducing valve type V182/82 PVC-U
With solvent cement spigots metric

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

d (mm)	D (mm)	H (mm)	H1 (mm)	L (mm)	Pressure setting range (bar)	closest inch (inch)
75	200	350	250	300	0.5 - 5.0	2 ½
90	250	425	305	360	0.5 - 5.0	3
110	300	495	345	420	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	O-rings FKM Code
20	15	½	10	161 586 302	0.690	1	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	D1	H	H1	H2	H3	L	L2	L3	M	z	Inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(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



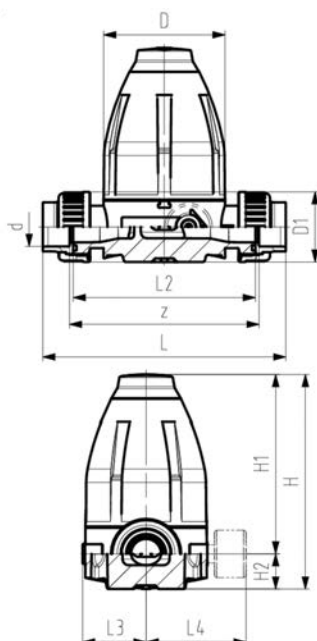
Pressure retaining valve type 586 PVC-U
Unions with solvent cement sockets metric
Without manometer

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	O-rings FKM Code
16	10	3/8	10	161 586 101	0.694	1	161 586 111
20	15	1/2	10	161 586 102	0.690	1	161 586 112
25	20	3/4	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 1/4	10	161 586 105	4.200	1	161 586 115
50	40	1 1/2	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	3/8
20	79	43	132	111	21	12	158	120	42	M6	126	1/2
25	100	51	177	148	29	14	194	150	53	M6	156	3/4
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 1/4
50	147	83	251	207	44	21	273	205	76	M8	211	1 1/2
63	147	101	251	207	44	21	287	205	76	M8	211	2



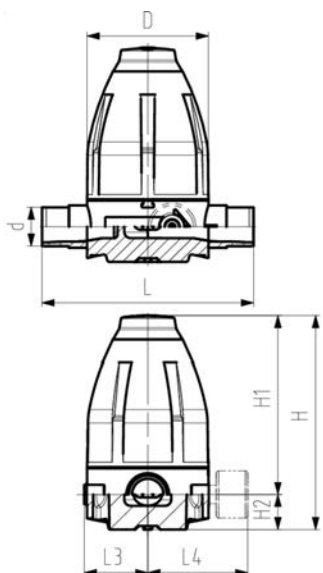
Pressure retaining valve type 586 PVC-U
With solvent cement spigots metric
Without manometer

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

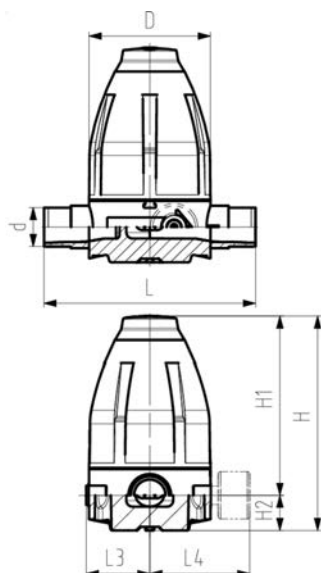
Manometer on request



d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	SP	O-rings FKM Code
16	10	3/8	10	161 586 001	0.620	1	161 586 011
20	15	1/2	10	161 586 002	0.620	1	161 586 012
25	20	3/4	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 1/4	10	161 586 005	3.960	1	161 586 015
50	40	1 1/2	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	3/8
20	79	132	111	21	12	134	42	M6	1/2
25	100	177	148	29	14	174	53	M6	3/4

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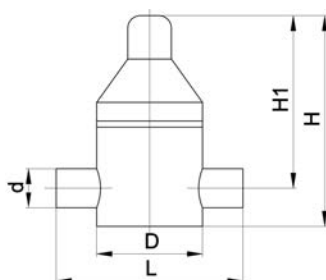


d	D	H	H1	H2	H3	L	L3	M	closest inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(inch)
32	100	177	148	29	14	174	53	M6	1
40	147	251	207	44	21	224	76	M8	1 ½
50	147	251	207	44	21	224	76	M8	1 ½
63	147	251	207	44	21	244	76	M8	2



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

d	DN	Size	PN	Type	EPDM Code	Weight (kg)	PTFE Code	Weight (kg)
(mm)	(mm)	(inch)	(bar)					
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	D	H	H1	L	closest inch	Pressure setting range
(mm)	(mm)	(mm)	(mm)	(mm)	(inch)	(bar)
75	180	275	230	284	2 ½	1.0 - 6.0
90	250	410	320	360	3	1.0 - 6.0
110	250	485	415	380	4	1.0 - 4.0

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	PVDF-HP FKM Code
10-15	185 489 161	180 489 161
20-25	185 489 163	180 489 163
32-50	185 489 166	180 489 166

Variable Area Flow Meters



Short version

Float in PVDF without magnet

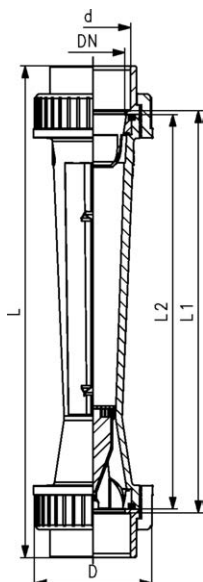
With solvent cement sockets PVC-U metric

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	3/8	SK 50	2.5 - 25.0	198 801 880	0.083	198 803 310	0.081
16	10	3/8	SK 51	5.0 - 50.0	198 801 881	0.078	198 803 311	0.079
16	10	3/8	SK 52	10.0 - 100.0	198 801 882	0.079	198 803 312	0.079
20	15	1/2	SK 60	8.0 - 80.0	198 801 883	0.125	198 803 313	0.127
20	15	1/2	SK 61	15.0 - 150.0	198 801 884	0.122	198 803 314	0.130
20	15	1/2	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	3/4
35	199	171	165	3/4
35	199	171	165	3/4
43	223	191	185	1
43	223	191	185	1
43	223	191	185	1
60	250	206	200	1 1/2
60	250	206	200	1 1/2
60	250	206	200	1 1/2
60	250	206	200	1 1/2



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	3/8	2.5 - 25.0	SK 500	198 801 890	0.079	198 803 320	0.081
16	10	3/8	5.0 - 50.0	SK 510	198 801 891	0.102	198 803 321	0.080
16	10	3/8	10.0 - 100.0	SK 520	198 801 892	0.075	198 803 322	0.079
20	15	1/2	8.0 - 80.0	SK 600	198 801 893	0.123	198 803 323	0.129
20	15	1/2	15.0 - 150.0	SK 610	198 801 894	0.121	198 803 324	0.160
20	15	1/2	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	3/4
35	199	171	165	3/4
35	199	171	165	3/4
43	223	191	185	1
43	223	191	185	1
43	223	191	185	1
60	250	206	200	1 1/2
60	250	206	200	1 1/2
60	250	206	200	1 1/2
60	250	206	200	1 1/2



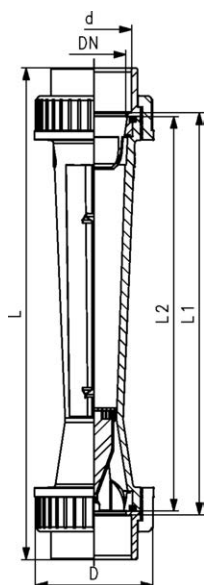
Variable area flow meter type 335
Float in PVDF without magnet
With solvent cement sockets PVC-U metric
O-rings in EPDM

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)
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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)
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50 - 500	199 335 040	0.464	58	385	341	335
100 - 1000	199 335 041	0.528	58	385	341	335
150 - 1500	199 335 042	0.698	72	393	341	335
250 - 2500	199 335 043	0.561	72	393	341	335
200 - 2000	199 335 044	1.057	83	403	341	335
300 - 3000	199 335 045	1.038	83	403	341	335
600 - 6000	199 335 046	0.991	83	403	341	335
600 - 6000	199 335 047	1.307	101	417	341	335
1000 - 10000	199 335 048	1.252	101	417	341	335
1500 - 15000	199 335 049	1.302	101	417	341	335
2000 - 20000	199 335 050	2.639	135	429	341	335
3000 - 30000	199 335 051	2.572	135	429	341	335
8000 - 60000	199 335 052	2.432	135	429	341	335

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



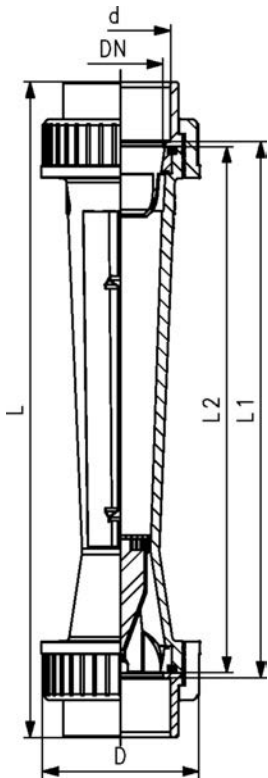
Model:

- 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

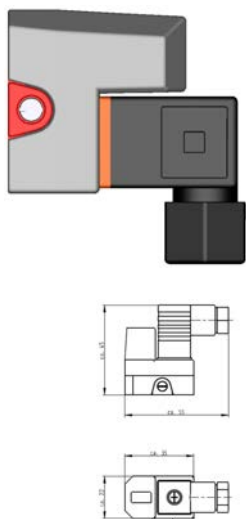


Taper tube in Polysulfone O-rings in EPDM Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)
199 335 140	0.466	58	385	341	335
199 335 141	0.452	58	385	341	335
199 335 142	0.604	72	393	341	335
199 335 143	0.585	72	393	341	335
199 335 144	0.944	83	403	341	335
199 335 145	1.035	83	403	341	335
199 335 146	0.881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

d	PN	Code	SP	Weight	z	D	D1	L
(inch)	(bar)			(kg)	(mm)	(mm)	(mm)	(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	20	0.269	6	110	105	56



Size	PN	d	Code	SP	Weight	z	D	D1	L
(inch)	(bar)	(inch)			(kg)	(mm)	(mm)	(mm)	(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
4	10	3 ½	721 602 014	30	0.334	5	146	131	66



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	Injection Quill 2-0.75 inch EPDM
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





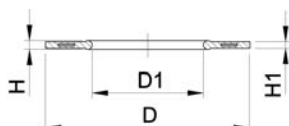
Seals

207



Pipe Clips

208



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
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)
3/8		167 061 085	10	0.006
1/2		167 061 086	10	0.009
3/4		167 061 087	10	0.007
1		167 061 088	10	0.012
1 1/4		167 061 089	10	0.025
1 1/2		167 061 090	10	0.032
2		167 061 091	10	0.052
2 1/2		167 061 112	10	0.062
3	90	167 061 013	10	0.092
4		167 061 114	10	0.114
5	140	167 061 016	10	0.224

d (inch)	D1 (mm)	D (mm)	L1 (mm)	L2 (mm)	H (mm)	closest inch	H1 (mm)	H2 (mm)	H3 (mm)	SC
3/8	10	6	14	17	27		10	6	16	M5
1/2	10	6	17	19	27		10	6	16	M5
3/4	10	6	19	22	30		10	6	16	M5
1	10	6	24	27	36		10	6	16	M5
1 1/4	14	7	34	34	44		10	7	22	M6
1 1/2	14	7	37	37	51		10	7	22	M6
2	17	9	45	45	64		10	10	25	M8
2 1/2	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	Code	SP	Weight
(mm)			(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	D	D1	H	H1	H2	H3	HoH +/- 2mm	L1	L2	SC	closest inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(inch)
* 10	5	8	20	10	6	12		11	14	M4	1/8
* 12	5	8	21	10	6	12		11	14	M5	1/8
* 16	6	11	27	10	6	16	17.0	14	17	M5	3/8
* 20	6	11	27	10	6	16	21.4	17	19	M5	1/2
* 25	6	11	30	10	6	16	26.9	19	22	M5	3/4
* 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 1/4
50	7	14	51	10	7	22	52.3	37	37	M6	1 1/2
63	9	17	64	10	10	25	66.7	45	45	M8	2
75	9	17	58	10	10	25		52	52	M8	2 1/2
90	9	17	65	10	10	28		65	65	M8	3
110	9	17	75	10	10	28		79	79	M8	4
125	9	17	90	10	10	32		88	88	M8	
140	9	17	110	10	10	32		98	98	M8	5
160	9	17	108	10	10	32		109	109	M8	6

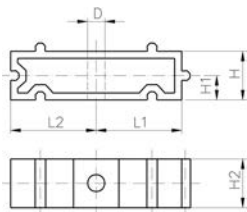
KLIP-IT spacer type 061 PP

Model:

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

d	Inch	Code	SP	Weight
(mm)	(inch)			(kg)
10 - 12	1/8 - 1/4	167 061 153	10	0.003
16	3/8	167 061 155	10	0.005
20	1/2	167 061 156	10	0.005
25	3/4	167 061 157	10	0.007
32	1	167 061 158	10	0.006
40	1 1/4	167 061 159	10	0.015
50	1 1/2	167 061 160	10	0.017
63	2	167 061 161	10	0.020
75	2 1/2	167 061 162	10	0.027
90	3	167 061 163	10	0.039

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

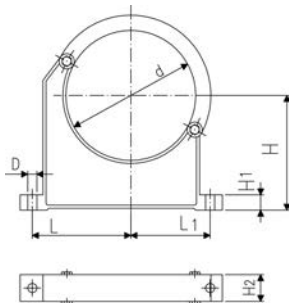
d (mm)	Inch (inch)	D (mm)	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	HoH +/- 2mm (mm)	SC
10 - 12	½ - ¼	5	11	14	20	10	12	1.0	M4
16	¾	6	14	17	20	10	16	17.0	M5
20	½	6	17	19	20	10	16	21.4	M5
25	¾	6	19	22	20	10	16	26.9	M5
32	1	6	24	27	20	10	16	36.7	M5
40	1 ¼	7	34	34	20	10	22	44.4	M6
50	1 ½	7	37	37	20	10	22	52.3	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



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 closest (mm)	d closest (inch)	Code	SP	GP	Weight (kg)
3	90	3	167 060 038	10		0.144
4			167 060 064	10	30	0.160
5	140	5	167 060 041	10		0.260
6			167 060 067	10		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



PVC-U Stub Flanges and Backing Rings

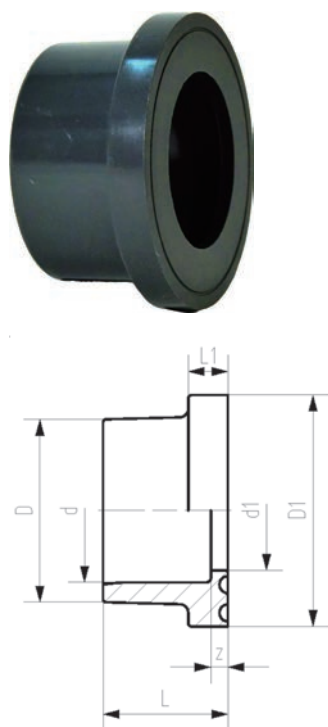
Flange adaptors and flanges	215
Backing flanges PP-V	216
Backing flanges PP-Steel	218
Backing flanges PVC-U	221
Backing flanges Steel	222
Blanking flanges PVC-U	223

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
1/2	721 791 106	20	721791106	721702206	200059726	200059726	200059782	200059877	200059877	200059905	727701406	727700406	727701206	727700206
3/4	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 1/4	721 791 109	40	721800109	721702209	200059729	200059729	200059785	200059880	200059880	200059908	727701409	727700409	727701209C	727700209
1 1/2	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
3	721 791 113	75	721790112	721702212	200059732	200059732	200059788	200059883	200059883	200059911	727701412	727700412	727701212C	727700212
4	721 791 115	90	721790113	721702213	200059812	200059812	200064130	200059935	200059935	200064121	727701413	727700413	727701213C	727700213
5	721 791 117	110	721790114	721702214	200059813	200059813	200064131	200059936	200059952	200064122	727701414	727700414	727701214C	727700214
6	721 791 119	125	721790116	721702216	200060455	200059845	200064132	200059937	200059968	200064123	200050066	727700415	727700215	727700215
8	721 791 120	225	721790120	721702220	200059815	200059815	200064133	200059939	200059938	200064124	727700416	727700415	200050031	727700217
10	721 791 122	280	721790117	721702217	200059816	200059816	200064134	200059941	200059970	200064125	727700420	727700420	727701220	727700217
12	721 791 123	315	721790123	721702220	200059818	200059818	200064135	200059942	200059958	200064126	727700417	727700417	727700217	727700220
		355	721790124		200059832	200059832	200064136	200059943	200059955	200064127	727700422	727700422	200060097	727700222
		400	721790125		200059836	200059836	200064137	200059943	200059960	200064128	727700423	727700423	200060099	727700223
					200059820	200059820	200064138			200064129		727700425	200060100	727700224

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



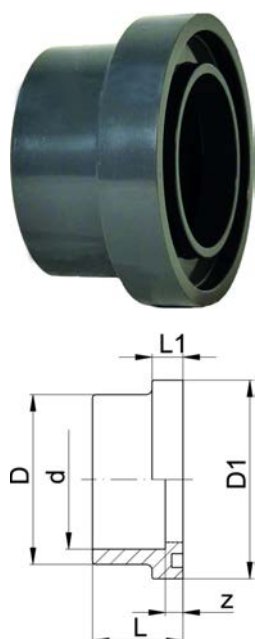
Flange adaptor PVC-U

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	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

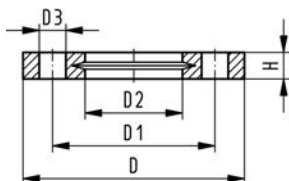
Jointing face with O-ring groove Inch BS

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

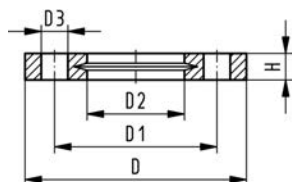
Model:

- 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

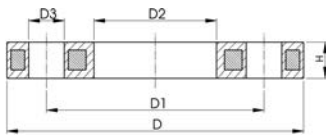
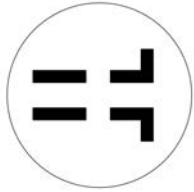
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d (mm)	DN (mm)	d (inch)	PN (bar)	Standard	Bolt circle	Design	Code	Weight (kg)
355	350		10	Metric	PN10	Socket	727 700 424	3.000
355	350		10	Metric	PN10	Butt	727 700 524	4.440
400	400		10	Metric	PN10	Socket	727 700 425	5.135
400	400		10	Metric	PN10	Butt	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

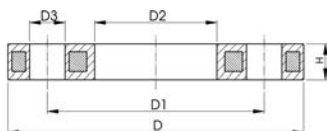
AL: number of holes

FM 1613 approved - 15 bar

** Profiled loose flange

	d	Size	DN	D	PN	Standard	Bolt circle	Design	Code	Weight
	(mm)	(inch)	(mm)	(mm)	(bar)					(kg)
	20	½	15	95	16	ASME	class 150	Butt/Socket	727 701 206	0.213
	20		15	95	16	Metric	PN10	Butt/Socket	727 700 206	0.216
	25		20	105	16	Metric	PN10	Butt/Socket	727 700 207	0.279
	25	¾	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	1	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	1 ¼	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	1 ½	40	150	16	ASME	class 150	Butt/Socket	727 701 210	0.809
	63	2	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	2 ½	65	185	16	ASME	class 150	Butt/Socket	727 701 212	1.117
*	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	3	80	200	16	ASME	class 150	Socket	727 701 213	1.492
	90	3	80	200	16	ASME	class 150	Butt	727 701 313	1.499
*	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	4	100	229	16	ASME	class 150	Socket	727 701 214	1.695
	110	4	100	229	16	ASME	class 150	Butt	727 701 314	1.739
*	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
*	140		125	250	16	Metric	PN10	Butt	724 700 316	2.318
	140		125	250	16	Metric	PN10	Butt	727 700 716	2.318
	140		125	250	16	Metric	PN10	Socket	727 700 816	2.033
*	160	6	150	285	16	Metric	PN10	Butt	724 700 317	3.491
	160	6	150	285	16	Metric/ASME	PN10/ class 150	Butt	727 700 717	3.491
	160	6	150	285	16	Metric/ASME	PN10/ class 150	Socket	727 700 817	3.167
*	180		150	285	16	Metric	PN10	Butt	724 700 318	3.108
	180		150	285	16	Metric/ASME	PN10/ Class 150	Butt	727 700 718	3.108
*, **	200		200	344	16	Metric	PN16	Butt	724 700 319	3.549
	200	8	200	340	16	Metric/ASME	PN10/ class 150	Butt	727 700 719	5.600
	200	8	200	340	16	Metric/ASME	PN10/ class 150	Socket	727 700 819	6.143
*, **	225		200	344	16	Metric	PN16	Butt	724 700 320	3.380
	225	8	200	340	16	Metric/ASME	PN10/ class 150	Butt	727 700 720	5.533
	225	8	200	340	16	Metric/ASME	PN10/ class 150	Socket	727 700 820	4.448
*, **	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	10	250	406	10	ASME	class 150	Butt	727 701 321	6.000

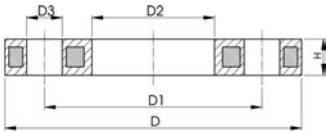
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	d	Size	DN	D	PN	Standard	Bolt cir- cle	Design	Code	Weight
	(mm)	(inch)	(mm)	(mm)	(bar)					(kg)
	250		250	395	16	Metric	PN10	Butt	727 700 721	6.632
	250		250	395	16	Metric	PN10	Socket	727 700 821	7.179
	280		250	410	16	Metric	PN16	Butt	724 700 322	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
*	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	12	300	483	10	ASME	class 150	Butt	727 701 322	11.800
*	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	14	350	540	10	ASME	class 150	Butt	727 701 323	17.900
*	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	16	400	597	10	ASME	class 150	Butt	727 701 324	24.500
*	450		500	685	10	Metric	PN10	Butt	724 700 426	25.600
*	500		500	685	10	Metric	PN10	Butt	724 700 427	21.061
**	560		600	796	10	Metric	PN10	Butt	724 700 428	35.000
**	630		600	800	10	Metric	PN10	Butt	724 700 429	28.500
**	710		700	912	6	Metric	PN10	Butt	724 700 430	25.500
**	800		800	1026	6	Metric	PN10	Butt	724 700 431	39.300
**	900		900	1129	6	Metric	PN10	Butt	724 700 432	48.500
	450	20	500	712	10	ASME	class 150	Butt	727 701 325	33.600

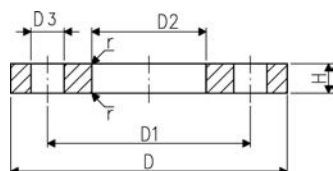
	d	D1	D2	D3	H max.	AL	SC
	(mm)	(mm)	(mm)	(mm)	(mm)		
	20	60	28	16	12	4	M12
	20	65	28	14	12	4	M12
	25	75	34	14	12	4	M12
	25	70	34	16	12	4	M12
	32	85	42	14	16	4	M12
	32	79	42	16	16	4	M12
	40	100	51	18	16	4	M16
	40	89	51	16	16	4	M16
	50	110	62	18	20	4	M16
	50	98	62	16	18	4	M16
	63	125	78	18	20	4	M16
	63	121	78	19	18	4	M16
	75	145	92	18	20	4	M16
	75	140	92	19	18	4	M16
*	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
*	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
*	125	180	135	18	20	8	M16
	125	180	135	18	20	8	M16
	125	210	150	18	26	8	M16
*	140	210	158	18	24	8	M16
	140	210	158	18	24	8	M16
	140	210	167	18	26	8	M16
*	160	240	178	22	28	8	M20
	160	240	178	22	24	8	M20
	160	240	190	22	26	8	M20
*	180	240	188	22	28	8	M20
	180	240	188	22	24	8	M20

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	d	D1	D2	D3	H max.	AL	SC
	(mm)	(mm)	(mm)	(mm)	(mm)		
*, **	200	295	235	22	31	12	M20
	200	295	235	22	27	8	M20
	200	295	226	22	29	8	M20
*, **	225	295	238	22	31	12	M20
	225	297	238	22	27	8	M20
	225	297	250	22	29	8	M20
*, **	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
*, **	280	355	294	26	36	12	M24
	280	350	294	22	30	12	M20
	280	350	310	22	32	12	M20
*, **	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
*, **	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
*, **	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
*, **	450	620	517	26	56	20	M24
*, **	500	620	533	26	56	20	M24
**	560	725	618	30	68	20	M27
**	630	725	645	30	68	20	M27
**	710	840	740	30	49	24	M27
**	800	950	843	33	58	24	M30
**	900	1050	947	33	62	28	M30
	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

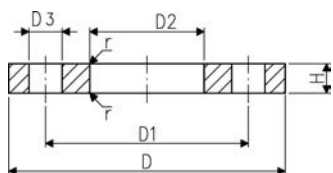
AL: number of holes

¹⁾ Not for BS

	d (mm)	DN (mm)	Size (inch)	PN (bar)	Standard	Bolt cir- cle	Design	Code	SP	Weight (kg)
	16	10	3/8	10	Metric	PN10	Socket	721 700 005	100	0.053
	20	15	1/2	10	Metric	PN10	Butt/Socket	721 700 006	90	0.067
	25	20	3/4	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 1/4	10	Metric	PN10	Butt/Socket	721 700 009	25	0.198
	50	40	1 1/2	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 1/2	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 1/2	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	1/2	10	ASME	class 150	Socket	721 702 206	90	0.068
	25	20	3/4	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 1/4	10	ASME	class 150	Socket	721 702 209	25	0.203
	50	40	1 1/2	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 1/2	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

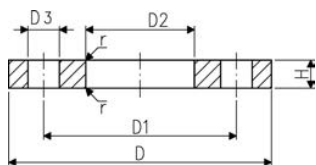
	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	r (mm)	AL	SC
	90	60	23	14	10	1	4	M12
	95	65	28	14	11	1	4	M12
	105	75	34	14	12	2	4	M12
	115	85	42	14	14	2	4	M12
	140	100	51	18	15	2	4	M16
	150	110	62	18	16	2	4	M16
	165	125	78	18	18	3	4	M16
	185	145	92	18	19	3	4	M16
	200	160	110	18	20	3	8	M16
	220	190	133	19	22	3	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

table continued on the next page



	D	D1	D2	D3	H	r	AL	SC
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		
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

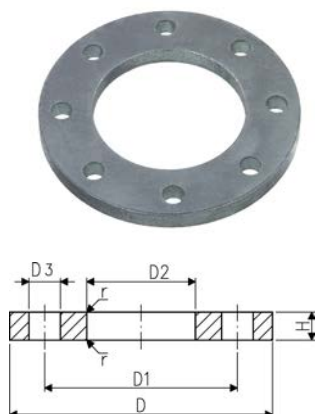
	d	d	DN	PN	Code	D	D1	D2	D3	H	AL	SC
	(mm)	(inch)	(mm)	(bar)		(mm)	(mm)	(mm)	(mm)	(mm)		
	20	¾	15	16	200 059 726	96	67	28	15	7	4	M12x55
	25	¾	20	16	200 059 727	102	73	34	15	7	4	M12x60
	32	1	25	16	200 059 728	115	83	42	15	7	4	M12x60
	40	1 ¼	32	16	200 059 729	121	88	51	15	8	4	M12x70
	50	1 ½	40	16	200 059 730	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

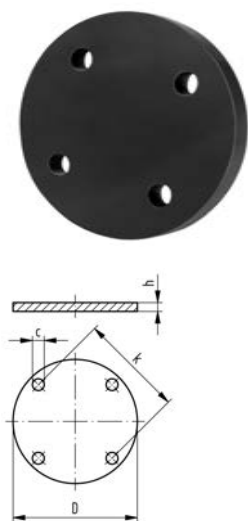
AL: number of holes



d (mm)	d (inch)	DN (mm)	PN (bar)	Code	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	AL	SC
20	¾	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

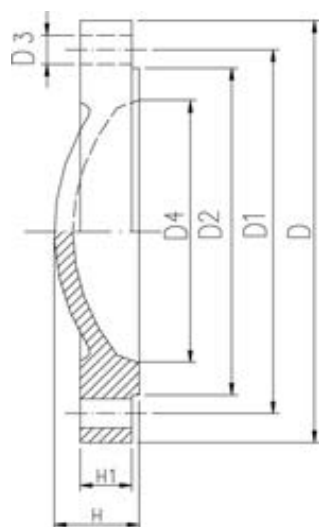
Joining face serrated metric

Model:

- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- **d63 to d160: combined joining 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
*	1 1/2	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
*	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





Cleaners and solvent cement

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Tangit Rapid solvent free adhesive for PVC-U and PVC-C

231



IPS Weld-On® product range

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Tools

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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	Code	Weight
(l)		(kg)
1	200 065 243	1.000



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	Code	Weight
(l)		(kg)
1	200 065 242	1.000



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



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	Number
200 000 523	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 1 ½"

Dauber Size (inch)	Pipe Size (inch)	Code	SP
¾	½ - ¾	200 064 151	1
½	¾ - 1	200 064 152	1
¾	1 ¼ - 1 ½	200 064 153	1
1 ½	2 - 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	⅝ - 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	1/8
8 mm (for Fittings 12-32mm)	12 - 32	799 299 002	12	0.006	1/4 - 1

Flat brush



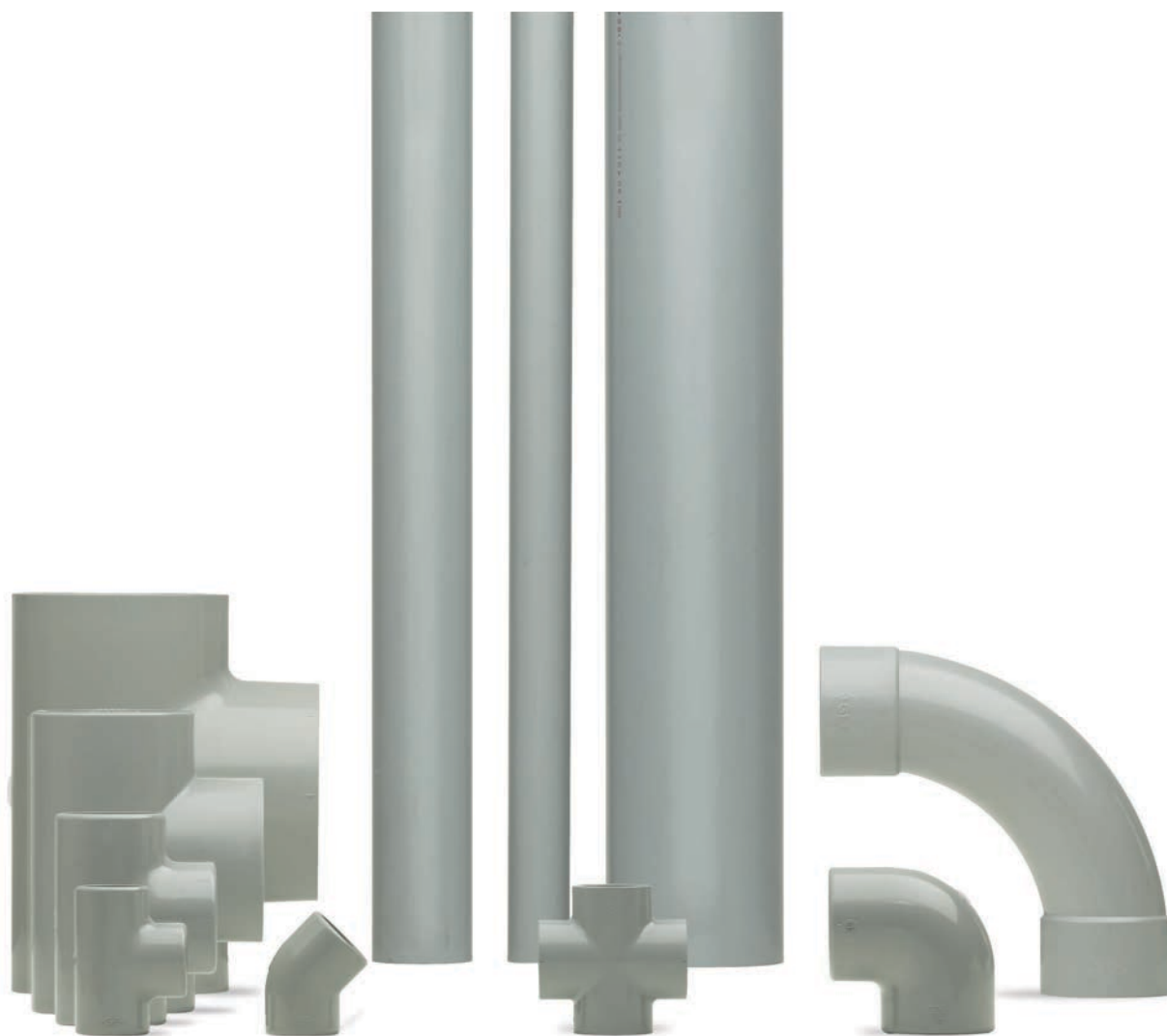
d-d (mm)	#	Code	SP	Weight (kg)	Closest inch (inch)
40 - 63	25x3 mm (for Fittings 40-63mm)	799 299 003	12	0.015	1 1/4 - 2
75 - 225	50x5 mm (for Fittings 75-225mm)	799 299 004	12	0.035	2 1/2 - 8
250 - 400	75x6 mm (for Fittings 250-400mm)	799 299 005	12	0.053	9 - 16

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

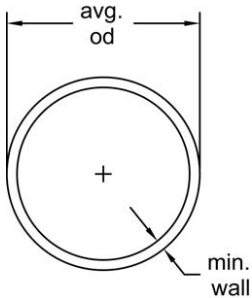


	PVC-C Schedule 80 Pressure Pipe	240
	PVC-C Schedule 80 Pressure Fittings	241
	Van Stone Flanges	254
	Unions	258
	Nipples	260
	45° Tees	261
	Expansion joints	263

Glossary

FPT	= Female Pipe Thread
MPT	= Male Pipe Thread
S	= Tapered Socket
SPG	= Spigot End (same dimension as pipe outside diameter)
HS	= High Strength Design
SL	= Streamline Design
BUSH	= Assembled Fitting from Molded Components
FAB	= Fabricated Fitting

PVC-C Schedule 80 Pressure Pipe



PVC-C Schedule 80 Plain End Pipe - 20 Ft Lengths

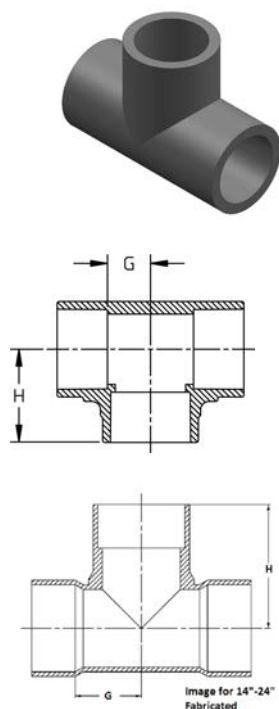
- Max Water Pressure at 73°F (22.7°C) with solvent-cemented joints

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

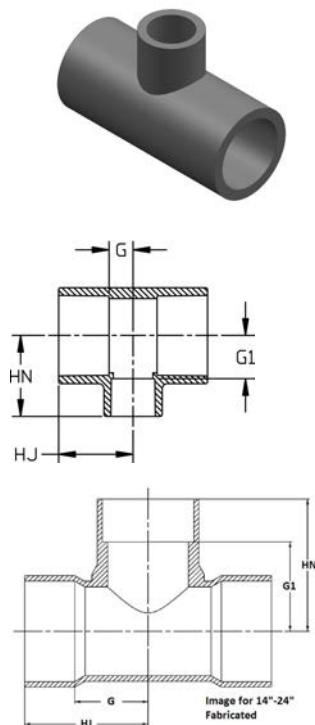
All Schedule 80 PVC-C threads are NPT

Tee (S x S x S)



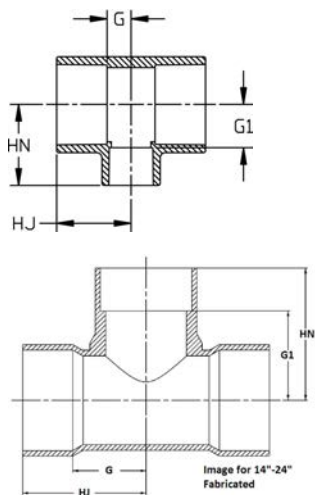
Size (inch)	P/L	Code	Pack Qty	H (inch)	G (inch)	Design
½	25	9801-005	25	1.41	0.51	SL
¾	25	9801-007	15	1.60	0.58	SL
1	25	9801-010	20	1.85	0.71	SL
1 ¼	25	9801-012	5	2.17	0.91	SL
1 ½	25	9801-015	5	2.43	1.04	SL
2	25	9801-020	5	2.81	1.30	SL
2 ½	25	9801-025	5	3.31	1.55	SL
3	25	9801-030	5	3.71	1.81	SL
4	25	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)



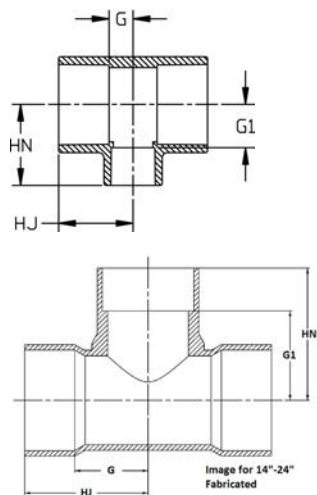
Size (inch)	P/L	Code	Pack Qty	HJ (inch)	HN (inch)	G (inch)	G1 (inch)	Design
¾ x ½	25	9801-101	25	1.62	1.62	0.60	0.72	SL
1 x ½	25	9801-130	25	1.87	1.64	0.72	0.74	SL
1 x ¾	25	9801-131	25	1.86	1.89	0.72	0.75	SL
1 ¼ x ½	625	9801-166FB	20	1.99	2.35	0.73	1.47	BUSH
1 ¼ x ¾	625	9801-167FB	20	1.99	2.35	0.73	1.33	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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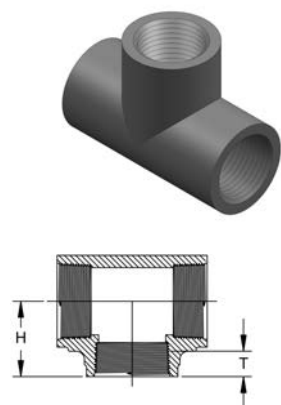
Size (inch)	P/L	Code	Pack Qty	HJ (inch)	HN (inch)	G (inch)	G1 (inch)	Design
4 x ¾	625	9801-416FB	5	3.52	4.19	1.27	3.17	BUSH
4 x 1	625	9801-417FB	5	3.53	4.12	1.26	3.00	BUSH
4 x 1 ¼	625	9801-418FB	5	3.52	4.18	1.27	2.91	BUSH
4 x 1 ½	625	9801-419FB	5	3.52	4.19	1.27	2.78	BUSH
4 x 2	25	9801-420	5	3.54	3.87	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 ¾	625	9801-574FB	1	7.61	8.89	3.55	7.90	BUSH
8 x 1 ½	625	9801-577FB	1	7.61	8.63	3.55	7.17	BUSH
8 x 2	625	9801-578FB	1	8.61	8.69	4.52	7.13	BUSH
8 x 3	625	9801-580FB	1	8.61	8.26	4.52	6.37	
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	10.75	
10 x 4		9801-623N	1	10.75	11.50	5.75	9.50	
10 x 6	02	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	12.00	
12 x 3		9801-661N	1	12.00	13.25	6.00	11.50	
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 14		9801-794N	1	20.88	22.00	11.88	15.00	
18 x 12		9801-792N	1	19.75	21.00	10.75	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	

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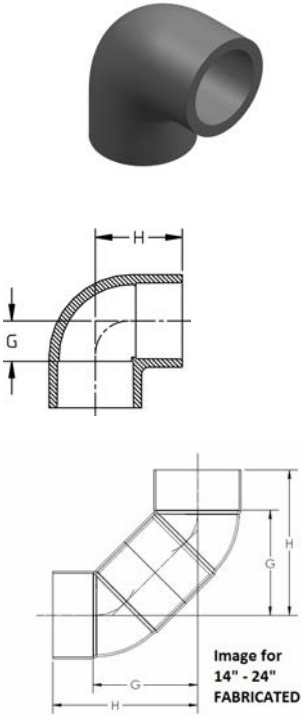
Size (inch)	P/L	Code	Pack Qty	HJ (inch)	HN (inch)	G (inch)	G1 (inch)	Design
20 x 10		9801-820N	1	20.00	20.25	10.00	15.25	
20 x 12		9801-822N	1	21.00	22.25	11.00	16.25	
20 x 14		9801-824N	1	21.63	23.25	11.63	16.25	
20 x 16		9801-826N	1	22.63	25.25	12.63	17.25	
20 x 18		9801-828N	1	23.63	27.25	13.63	18.25	
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)



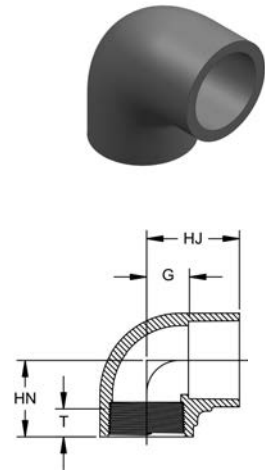
Size (inch)	P/L	Code	Pack Qty	H (inch)	T (inch)	Design
¼	25	9805-002	50	0.94	0.59	HS
⅜	25	9805-003	50	1.01	0.60	HS
½	25	9805-005	25	1.26	0.76	HS
¾	25	9805-007	15	1.36	0.72	HS
1	25	9805-010	15	1.79	0.99	HS
1 ¼	25	9805-012	10	1.93	1.01	HS
1 ½	25	9805-015	10	2.08	1.03	HS
2	25	9805-020	5	2.39	1.06	HS
2 ½	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)



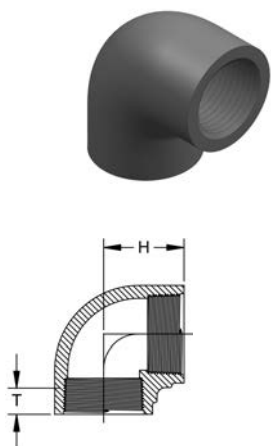
Size (inch)	P/L	Code	Pack Qty	H (inch)	G (inch)	Design
¼	625	9806-002	50	0.96	0.35	HS
½	25	9806-005	25	1.41	0.51	SL
¾	25	9806-007	25	1.60	0.57	SL
1	25	9806-010	10	1.83	0.68	SL
1 ¼	25	9806-012	10	2.18	0.90	SL
1 ½	25	9806-015	10	2.43	1.04	SL
2	25	9806-020	20	2.80	1.27	SL
2 ½	25	9806-025	5	3.33	1.53	SL
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)



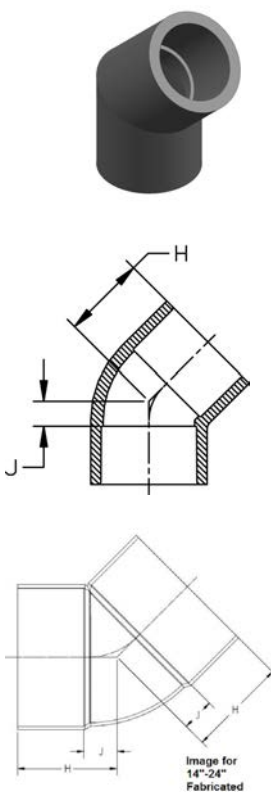
Size (inch)	P/L	Code	Pack Qty	HJ (inch)	HN (inch)	G (inch)	T (inch)	Design
½	25	9807-005	25	1.40	1.31	0.50	0.81	HS
¾	25	9807-007	25	1.59	1.36	0.58	0.72	HS
1	25	9807-010	10	1.81	1.70	0.67	1.00	HS
1 ¼	625	9807-012	10	2.15	1.92	0.89	1.03	HS
1 ½	625	9807-015	10	2.39	2.05	1.01	1.05	HS
2	625	9807-020	5	2.77	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)



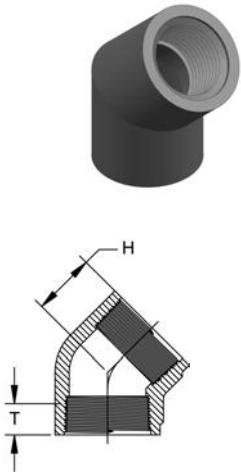
Size (inch)	P/L	Code	Pack Qty	H (inch)	T (inch)	Design
¼	25	9808-002	50	0.94	0.61	HS
½	25	9808-003	50	1.00	0.63	HS
¾	25	9808-005	25	1.27	0.78	HS
1	25	9808-007	20	1.36	0.72	HS
1 ¼	25	9808-010	10	1.71	1.00	HS
1 ½	25	9808-012	10	1.92	1.01	HS
2	25	9808-015	10	2.08	1.06	HS
2 ½	25	9808-020	5	2.36	1.08	HS
3	25	9808-025	5	3.36	1.51	HS
4	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

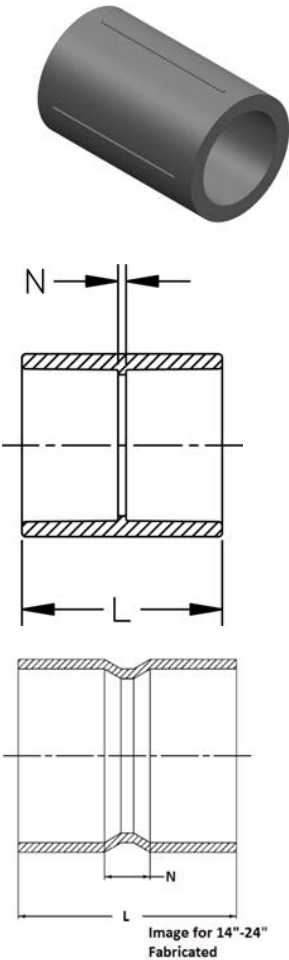
45° Ell (FPT x FPT)



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

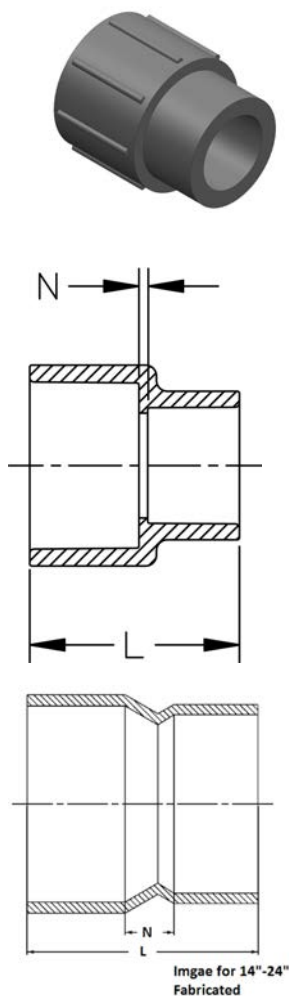
Couplers & adapters

Coupling (S x S)



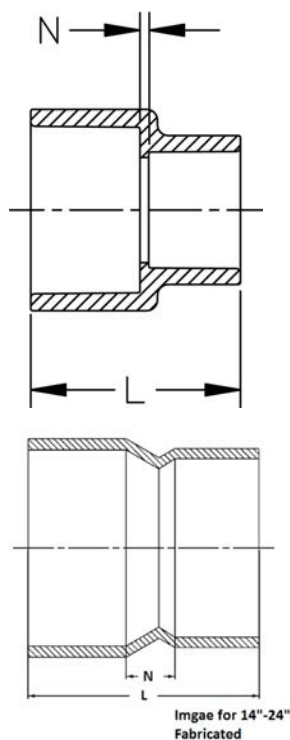
Size (inch)	P/L	Code	Pack Qty	L (inch)	N (inch)	Design
¼	25	9829-005	25	1.93	0.12	SL
½	25	9829-007	20	2.18	0.12	SL
1	25	9829-010	25	2.41	0.12	SL
1 ¼	25	9829-012	25	2.67	0.13	SL
1 ½	25	9829-015	10	2.94	0.15	SL
2	25	9829-020	5	3.18	0.13	SL
2 ½	25	9829-025	5	3.77	0.19	SL
3	25	9829-030	5	4.04	0.26	SL
4	25	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

Reducing Coupling (S x S)



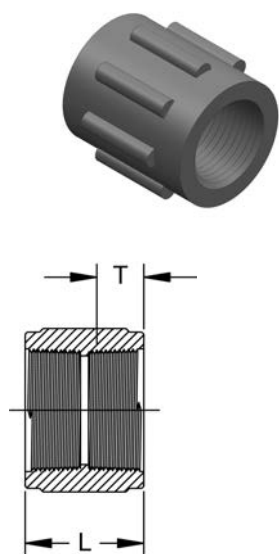
Size (inch)	P/L	Code	Pack Qty	L (inch)	N (inch)	Design
¾ x ½	25	9829-101	25	2.13	0.13	HS
1 x ½	25	9829-130	25	2.17	0.12	HS
1 x ¾	25	9829-131	25	2.26	0.11	HS
1 ¼ x ¾	625	9829-167FB	15	2.94	0.66	BUSH
1 ¼ x 1	625	9829-168FB	15	2.52	0.10	BUSH
1 ½ x ½	25	9829-209FB	15	2.94	0.64	BUSH
1 ½ x ¾	625	9829-210FB	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



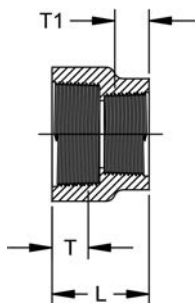
Size (inch)	P/L	Code	Pack Qty	L (inch)	N (inch)	Design
20 x 14	A34	9829-824N	1	37.25	20.25	FAB
20 x 16	A34	9829-826N	1	24.50	6.50	FAB
20 x 18	A34	9829-828N	1	24.00	5.00	FAB
24 x 4	A34	9829-904N	1	66.00	52.00	FAB
24 x 6	A34	9829-906N	1	61.00	46.00	FAB
24 x 8	A34	9829-908N	1	52.00	36.00	FAB
24 x 10	A34	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)



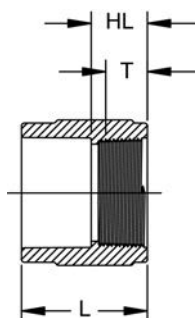
Size (inch)	P/L	Code	Pack Qty	L (inch)	T (inch)	Design
¼	25	9830-002	50	1.29	0.61	HS
¾	25	9830-003	50	1.35	0.62	HS
½	25	9830-005	25	1.68	0.77	HS
¾	25	9830-007	25	1.75	0.80	HS
1	25	9830-010	25	2.13	0.99	HS
1 ¼	25	9830-012	25	2.19	1.03	HS
1 ½	25	9830-015	10	2.22	1.03	HS
2	25	9830-020	5	2.29	1.08	HS
2 ½	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)



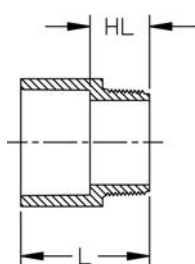
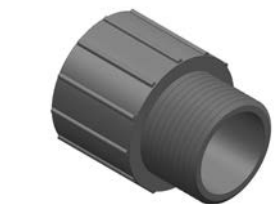
Size (inch)	P/L	Code	Pack Qty	L (inch)	T (inch)	T1 (inch)	Design
3/8 x 1/4	625	9830-052	50	1.29	0.60	0.59	HS
1/2 x 1/4	25	9830-072	50	1.45	0.75	0.59	HS
1/2 x 3/8	25	9830-073	50	1.46	0.74	0.60	HS
3/4 x 1/2	25	9830-101	25	1.69	0.78	0.78	HS
1 x 1/2	25	9830-130	25	1.84	0.98	0.77	HS
1 x 3/4	25	9830-131	25	1.88	0.98	0.80	HS
1 1/4 x 3/4	625	9830-167	25	1.90	1.00	0.79	HS
1 1/2 x 1	25	9830-211	20	2.06	1.02	0.95	HS

Female Adapter (S x FPT)



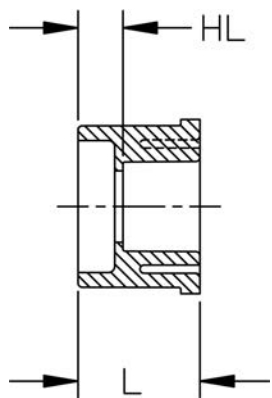
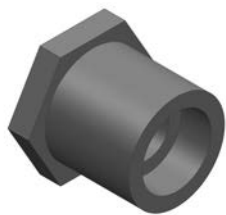
Size (inch)	P/L	Code	Pack Qty	HL (inch)	L (inch)	T (inch)	Design
1/4	25	9835-002	50	0.75	1.43	0.58	HS
1/2	25	9835-005	25	0.91	1.80	0.75	HS
3/4	25	9835-007	20	0.95	1.96	0.79	HS
1	25	9835-010	25	1.11	2.27	0.98	HS
1 1/4	25	9835-012	10	1.18	2.44	1.02	HS
1 1/2	25	9835-015	10	1.19	2.59	1.03	HS
2	25	9835-020	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
1/2	25	9836-005	50	0.94	1.85	HS
3/4	25	9836-007	25	1.05	2.03	SL
1	25	9836-010	25	1.22	2.38	HS
1 1/4	25	9836-012	15	1.28	2.56	HS
1 1/2	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	

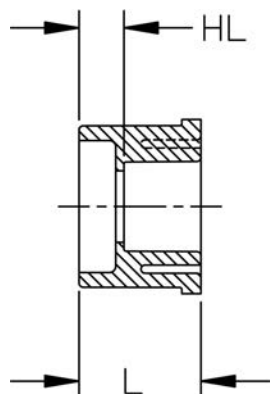
Reducers



Flush Style Reducer Bushing (Spg x S)

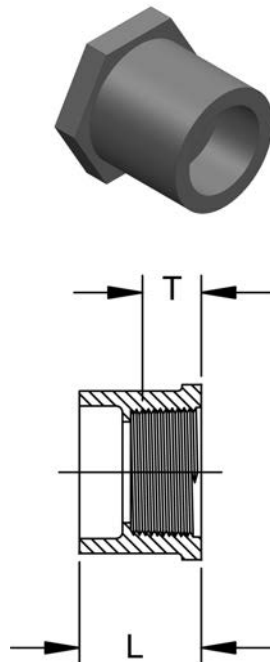
Size (inch)	P/L	Code	Pack Qty	HL (inch)	L (inch)	Design
½ x ¼	25	9837-072	50	0.47	1.15	FLUSH
½ x ⅜	25	9837-073	50	0.33	1.09	FLUSH
¾ x ½	25	9837-101	50	0.42	1.30	FLUSH
1 x ½	25	9837-130	50	0.55	1.44	FLUSH
1 x ¾	25	9837-131	50	0.41	1.43	FLUSH
1 ¼ x ½	25	9837-166	25	0.66	1.55	FLUSH
1 ¼ x ¾	25	9837-167	25	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



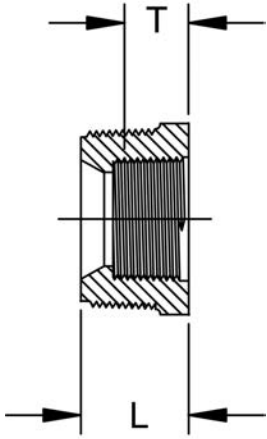
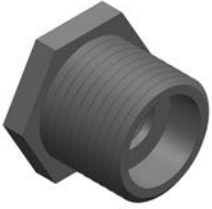
Size (inch)	P/L	Code	Pack Qty	HL (inch)	L (inch)	Design
16 x 8	A34	9837-734N	1	4.50	8.50	FAB
16 x 10	A34	9837-736N	1	3.50	8.50	FAB
16 x 12	A34	9837-738N	1	2.50	8.50	FAB
16 x 14	A34	9837-740N	1	1.50	8.50	FAB
18 x 4	A34	9837-784N	1	7.50	9.50	FAB
18 x 6	A34	9837-786N	1	6.50	9.50	FAB
18 x 8	A34	9837-788N	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

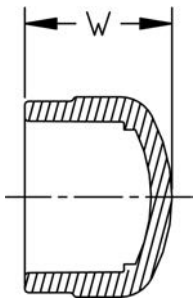
Flush Style Reducer Bushing (MPT x FPT)



Size (inch)	P/L	Code	Pack Qty	L (inch)	T (inch)	Style
3/8 x 1/4	25	9839-052	50	0.80	0.60	
1/2 x 1/4	25	9839-072	50	0.95	0.60	
1/2 x 3/8	25	9839-073	50	0.96	0.61	
3/4 x 3/8	25	9839-099	50	1.02	0.61	
3/4 x 1/2	25	9839-101	50	1.08	0.75	
1 x 1/2	25	9839-130	25	1.24	0.76	
1 x 3/4	25	9839-131	25	1.28	0.80	
1 1/4 x 1	25	9839-168	25	1.30	1.00	
1 1/2 x 3/4	25	9839-210	25	1.33	0.78	
1 1/2 x 1	25	9839-211	25	1.34	0.98	
1 1/2 x 1 1/4	25	9839-212	25	1.33	1.02	
2 x 1	25	9839-249	10	1.42	0.97	
2 x 1 1/4	25	9839-250	10	1.43	1.01	
2 x 1 1/2	25	9839-251	10	1.35	1.02	

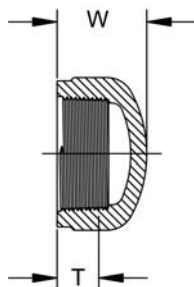
Caps & End Caps

Cap (S)



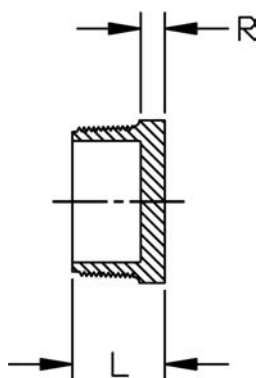
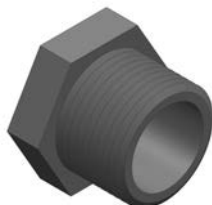
Size (inch)	P/L	Code	Pack Qty	W (inch)	Design
1/2	25	9847-005	50	1.30	HS
3/4	25	9847-007	25	1.46	HS
1	25	9847-010	25	1.66	HS
1 1/4	25	9847-012	15	1.89	HS
1 1/2	25	9847-015	10	2.08	HS
2	25	9847-020	5	2.32	HS
2 1/2	25	9847-025	5	2.61	HS
3	25	9847-030	5	3.06	HS
4	25	9847-040	5	3.69	HS
6	25	9847-060	2	4.86	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)



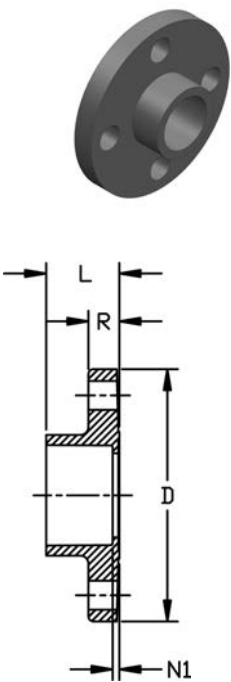
Size (inch)	P/L	Code	Pack Qty	W (inch)	T (inch)	Design
¼	25	9848-002	50	0.93	0.54	HS
⅜	25	9848-003	50	0.94	0.62	HS
½	25	9848-005	50	1.14	0.74	HS
¾	25	9848-007	25	1.25	0.80	HS
1	25	9848-010	25	1.51	0.97	HS
1 ¼	25	9848-012	15	1.59	1.00	HS
1 ½	25	9848-015	10	1.70	1.01	HS
2	25	9848-020	5	1.82	1.06	HS
2 ½	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	

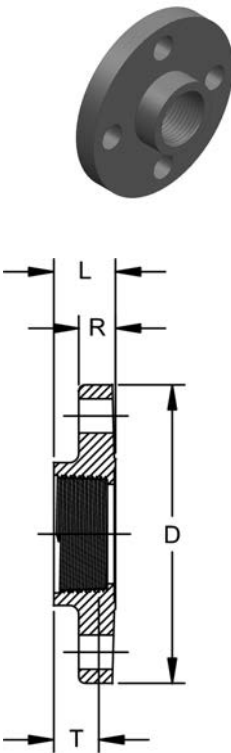
Van Stone Flanges



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	¾	4.75	6.01	1.73	0.16	0.69	HC
2 ½	25	9851-025	5	4	¾	5.50	7.00	1.99	0.17	0.75	HC
3	25	9851-030	5	4	¾	6.00	7.51	2.46	0.57	1.10	WEB
4	25	9851-040	5	8	¾	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	¾	4.75	6.02	1.22	1.06	0.70	HC
2 ½	25	9852-025	5	4	¾	5.50	7.00	1.72	1.53	0.75	HC
3	625	9852-030	5	4	¾	6.00	7.50	2.15	1.63	1.15	WEB
4	25	9852-040	5	8	¾	7.50	9.00	2.30	1.77	1.23	WEB

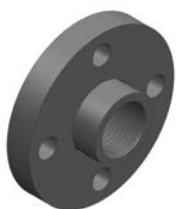
Van Stone Flange (S)



- ANSI 150 Class according to ANSI B16.5
- 1/2" - 12" rating pressure 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
1/2	25	9854-005	5	4	1/2	2.38	3.53	1.10	0.18	0.57	0.60	HC
3/4	25	9854-007	5	4	1/2	2.75	3.87	1.23	0.18	0.59	0.82	HC
1	25	9854-010	5	4	1/2	3.13	4.25	1.38	0.20	0.66	1.03	HC
1 1/4	25	9854-012	5	4	1/2	3.50	4.62	1.52	0.21	0.69	1.36	HC
1 1/2	25	9854-015	5	4	1/2	3.88	5.01	1.68	0.25	0.75	1.60	HC
2	25	9854-020	5	4	3/4	4.75	6.02	1.84	0.29	0.82	2.06	HC
2 1/2	25	9854-025	5	4	3/4	5.50	7.01	2.15	0.33	0.98	2.49	HC
3	25	9854-030	5	4	3/4	6.00	7.50	2.33	0.39	1.02	3.09	HC
4	25	9854-040	5	8	3/4	7.50	8.99	2.75	0.24	1.10	4.06	HC
6	25	9854-060	2	8	3/4	9.50	10.98	3.55	0.48	1.25	6.11	HC
8	25	9854-080	2	8	3/4	11.75	13.51	4.60	0.51	1.71	8.00	HC
10	02	9854-100	2	12	7/8	14.25	15.97	5.66	0.53	1.73	10.10	HC
12	02	9854-120	2	12	7/8	17.00	18.95	6.71	0.57	1.72	11.96	HC
14	A34	9854-140N	1	12	1 1/8	18.75	21.00	11.50	4.50	0.50	12.50	FAB
16	A34	9854-160N	1	16	1 1/8	21.25	23.50	13.27	5.50	0.50	14.31	FAB
18	A34	9854-180N	1	16	1 1/8	22.75	25.00	14.25	5.50	0.50	16.13	FAB
20	A34	9854-200N	1	20	1 1/8	25.00	27.50	16.00	6.00	0.50	18.00	FAB
24	A34	9854-240N	1	20	1 1/8	29.50	32.00	19.00	7.00	0.50	21.56	FAB

Van Stone Flange (FPT)



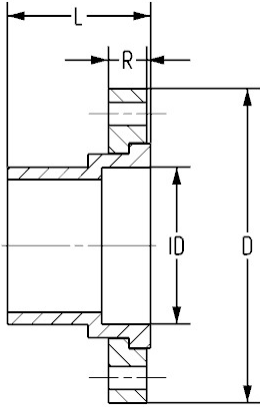
- ANSI 150 Class according to ANSI B16.5
- 150 psi @ 73°F (10.3 bar @ 22.7°C)
- HC = Honeycomb (Front)

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	1/2	3.13	4.25	1.39	1.01	0.66	1.06	HC
1 1/4	25	9855-012	5	4	1/2	3.50	4.62	1.50	1.02	0.69	1.38	HC
1 1/2	25	9855-015	5	4	1/2	3.88	5.01	1.67	1.06	0.75	1.61	HC
2	25	9855-020	5	4	3/4	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)

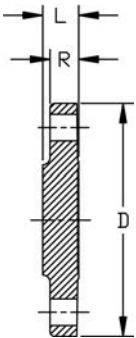


Size (inch)	P/L	Code	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	R (inch)	ID (inch)	Design
1/2	25	9856-005	5	4	1/2	2.38	3.53	1.72	0.57	0.84	HC
3/4	25	9856-007	5	4	1/2	2.75	3.87	1.85	0.59	1.05	HC
1	25	9856-010	5	4	1/2	3.13	4.25	2.10	0.66	1.32	HC
1 1/4	25	9856-012	5	4	1/2	3.50	4.62	2.28	0.69	1.66	HC
1 1/2	25	9856-015	5	4	1/2	3.88	5.01	2.48	0.75	1.90	HC
2	25	9856-020	5	4	5/8	4.75	6.02	2.80	0.82	2.38	HC
2 1/2	25	9856-025	5	4	5/8	5.50	7.01	3.27	0.98	2.86	HC
3	25	9856-030	5	4	5/8	6.00	7.50	3.60	1.02	3.49	HC
4	25	9856-040	5	8	5/8	7.50	8.99	4.10	1.10	4.49	HC
6	25	9856-060	2	8	3/4	9.50	10.98	5.10	1.25	6.60	HC
8	25	9856-080	1	8	3/4	11.75	13.51	6.88	1.71	8.62	HC
10	02	9856-100	1	12	7/8	14.25	15.97	8.30	1.73	10.70	HC
12	02	9856-120	1	12	7/8	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 1/8	22.75	25.00	16.00	0.50	14.76	FAB
20		9856-200N	1	20	1 1/8	25.00	27.50	18.00	0.50	16.43	
24	A34	9856-240N	1	20	1 1/4	29.50	32.00	20.00	0.50	19.79	FAB

Flange (Blind)



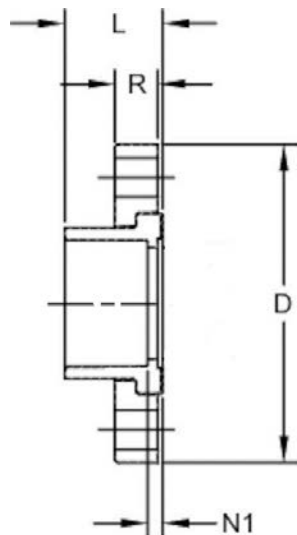
- ANSI 150 Class according to ANSI B16.5
- 1/2" - 8" 150 psi @ 73°F (10.3 bar @ 22.7°C)
- 10" - 24" 50 psi @ 73°F (3.5 bar @ 22.7°C)
- HC = Honeycomb (Front)



Size (inch)	P/L	Code	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	R (inch)	Design
1/2	25	9853-005	5	4	1/2	2.38	3.51	0.48	0.39	HC
3/4	25	9853-007	5	4	1/2	2.75	3.90	0.55	0.45	HC
1	25	9853-010	5	4	1/2	3.13	4.29	0.66	0.53	HC
1 1/4	25	9853-012	5	4	1/2	3.50	4.62	0.73	0.59	HC
1 1/2	25	9853-015	5	4	1/2	3.88	5.01	0.81	0.68	HC
2	25	9853-020	5	4	5/8	4.75	6.02	0.90	0.70	HC
2 1/2	25	9853-025	5	4	5/8	5.50	7.00	0.97	0.76	HC
3	25	9853-030	5	4	5/8	6.00	7.47	0.96	1.03	HC
4	25	9853-040	5	8	5/8	7.50	8.87	1.05	1.00	HC
6	25	9853-060	2	8	3/4	9.50	10.89	1.42	1.17	HC
8	25	9853-080	2	8	3/4	11.75	13.51	1.51	1.31	HC
10		9853-100N	1	12	7/8	14.25	16.00	1.00	1.00	
12		9853-120N	1	12	7/8	17.00	19.00	1.00	1.00	
14	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 1/8	22.75	25.00	1.00	1.00	SOLID
20	A34	9853-200N	1	20	1 1/8	25.00	27.50	1.00	1.00	SOLID
24	A34	9853-240N	1	20	1 1/4	29.50	32.00	1.00	1.00	SOLID

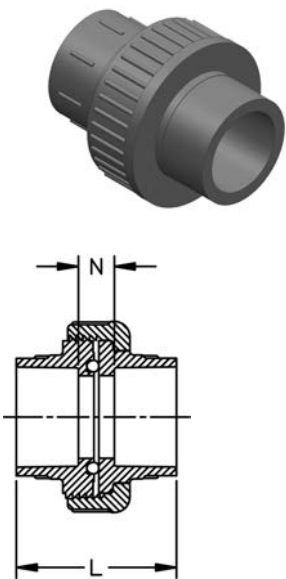
Van Stone Flange (S) Class 300 Schedule 80 CPVC

- 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

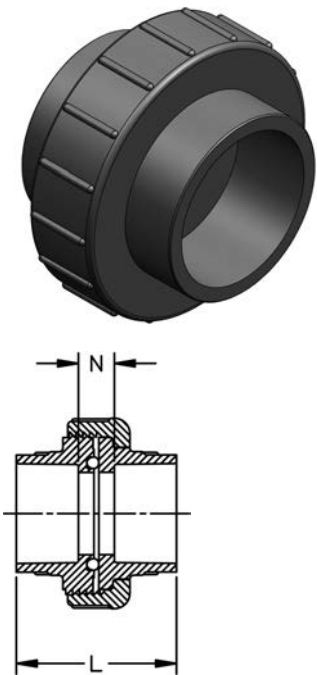
Unions



**CHLOR-FIT Schedule 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)

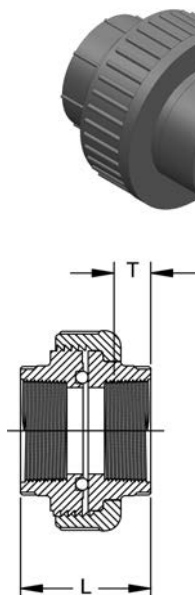
150 psi @ 73°F (10.3 bar @ 22.7°C)

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 Schedule 80 Union CPVC Type 375 (FPT x FPT)

- 235 psi @ 73°F (16.2 bar @ 22.7°C)

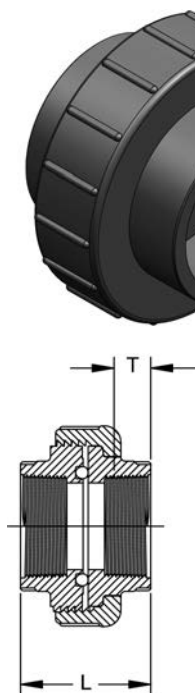
Size (inch)	P/L	EPDM Code	FKM Code	Pack Qty	L (inch)	T (inch)
½	625	9898-375-005	9858-375-005	5	2.06	0.75
¾	25	9898-375-007	9858-375-007	5	2.11	0.79
1	25	9898-375-010	9858-375-010	5	2.60	1.01
1 ¼	25	9898-375-012	9858-375-012	5	2.80	1.06
1 ½	25	9898-375-015	9858-375-015	5	2.76	1.06
2	625	9898-375-020	9858-375-020	2	2.93	1.09



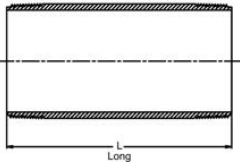
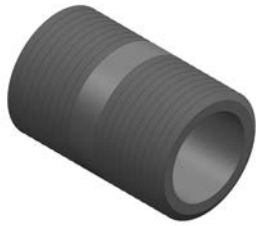
Union (FPT X FPT)

- 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)

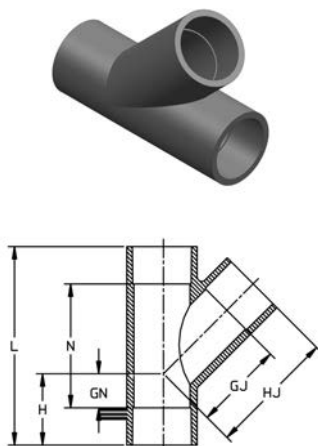
- Nipples fabricated from pipe

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)

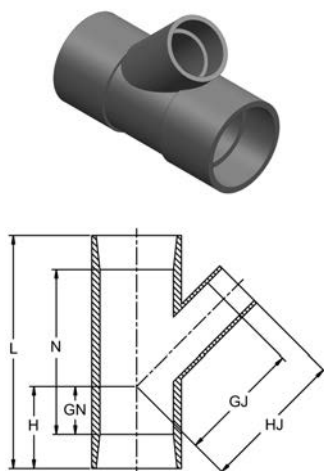
1-1/2" - 2" 235 psi @ 72°F (16.2 bar @ 22.7°C)
3" - 6" 150 psi @ 72°F (10.3 bar @ 22.7°C)
8" & Larger 100 psi @ 72°F (6.9 bar @ 22.7°C)



Size (inch)	P/L	Code	Pack Qty	GJ (inch)	GN (inch)	H (inch)	HJ (inch)	L (inch)	N (inch)	Design
1 1/2	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

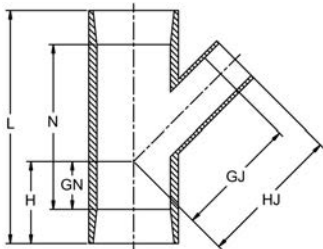
Reducing 45° Wye (S x S x S)

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 1/2	25	9870-251FB	10	3.96	1.36	2.87	5.37	7.99	4.97	BUSH
3 x 1 1/2	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



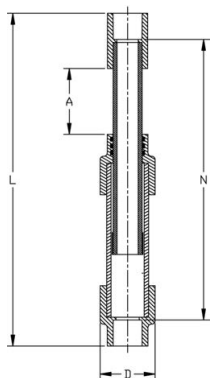
Size (inch)	P/L	Code	Pack Qty	GJ (inch)	GN (inch)	H (inch)	HJ (inch)	L (inch)	N (inch)	Design
18 x 8	A34	9875-788N	1	22.75	2.00	11.00	26.75	39.75	21.75	FAB
18 x 10	A34	9875-790N	1	25.00	3.50	12.50	30.00	42.75	24.75	FAB
18 x 12	A34	9875-792N	1	26.25	4.75	13.75	32.50	45.50	27.50	FAB
18 x 14	A34	9875-794N	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

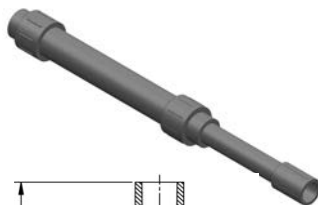


ChlorFIT Expansion Joint 6" Travel (SxS) Schedule 80 CORZAN® CPVC

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

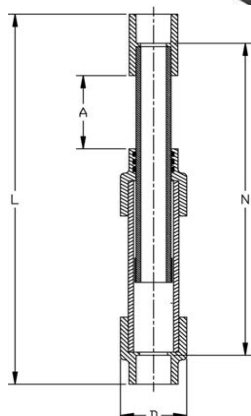


Size (inch)	P/L	EPDM Code	FKM Code	A (inch)	D (inch)	L (inch)	N (inch)
½	634	9826-005X6	9836-005X6	3.00	1.86	13.97	12.17
¾	34	9826-007X6	9836-007X6	3.00	2.23	14.44	12.40
1	34	9826-010X6	9836-010X6	3.00	2.50	14.98	12.69
1 ¼	34	9826-012X6	9836-012X6	3.00	2.89	15.56	12.98
1 ½	634	9826-015X6	9836-015X6	3.00	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



Ball valves

266



Butterfly valves

275



Diaphragm valves

281



Cone check valves

284



Process control valves

286



Pressure regulating valves

287



Strainers

290



Adaptors and unions

291

Ball valves

Type 546 Pro



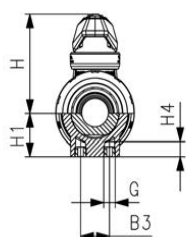
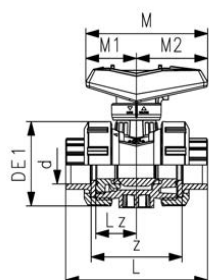
Ball valve type 546 Pro PVC-C
With solvent cement sockets Inch ASTM
Including 2 threaded union ends NPT

Model:

- Lockable lever as standard
- 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 for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from +GF+
- Individual configuration of valves possible

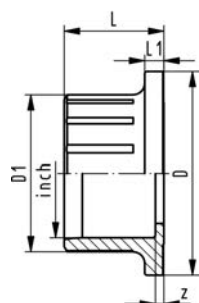


d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	3/8	16	70	163 546 341	1	0.194	163 546 351	1	0.194
20	15	1/2	16	185	163 546 342	1	0.248	163 546 352	1	0.250
25	20	3/4	16	350	163 546 343	1	0.358	163 546 353	1	0.267
32	25	1	16	700	163 546 344	1	0.517	163 546 354	1	0.520
40	32	1 1/4	16	1000	163 546 345	1	0.652	163 546 355	1	0.810
50	40	1 1/2	16	1600	163 546 346	1	1.166	163 546 356	1	1.180
63	50	2	16	3100	163 546 347	1	2.055	163 546 357	1	2.078
75	65	2 1/2	16	5000	163 546 348	1	5.400	163 546 358	1	5.400
90	80	3	16	7000	163 546 349	1	5.821	163 546 359	1	6.689
110	100	4	16	11000	163 546 350	1	12.800	163 546 360	1	12.800

d (mm)	B3 (mm)	DE1 (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	25	50	M6	60.5	27	12	92	28	82	35	47	64
20	25	50	M6	60.5	27	12	95	28	82	35	47	64
25	25	58	M6	74.0	30	12	110	33	106	44	62	72
32	25	68	M6	80.0	36	12	123	36	106	44	62	79
40	45	84	M8	95.0	44	15	146	43	131	57	74	94
50	45	97	M8	101.5	51	15	157	45	131	57	74	95
63	45	124	M8	116.5	64	15	183	51	152	66	86	107
75	70	166	M8	169.0	85	15	233	68	270	64	205	144
90	70	200	M8	180.0	105	15	254	71	270	64	205	151
110	120	238	M12	194.0	123	22	301	82	326	71	255	174



Valve end 546 Pro and 543 Pro PVC-C (G13)
With solvent cement socket Inch ASTM



d (mm)	PN (bar)	Size (inch)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
16	16	3/8	163 481 311	0.012	38	24	25	4	6
20	16	1/2	163 481 312	0.014	38	30	25	4	2
25	16	3/4	163 481 313	0.020	44	35	28	5	3
32	16	1	163 481 314	0.034	53	43	31	5	3
40	16	1 1/4	163 481 315	0.050	65	53	34	5	3
50	16	1 1/2	163 481 316	0.072	77	60	38	6	3
63	16	2	163 481 317	0.122	99	73	41	7	3
75	16	2 1/2	163 481 318	0.266	125	92	49	9	4
90	16	3	163 481 319	0.394	150	110	57	10	8
110	16	4	163 481 320	0.651	180	134	69	11	11



Threaded socket

Size (inch)	DN (mm)	PVC-C Rp (G15) Code	PVC-C Rp reinforced (G16) Code	PVC-C NPT (G17) Code
3/8	10	163 481 286	163 481 400	163 481 322
1/2	15	163 481 287	163 481 401	163 481 323
3/4	20	163 481 288	163 481 402	163 481 324
1	25	163 481 289	163 481 403	163 481 325
1 1/4	32	163 481 290	163 481 404	163 481 326
1 1/2	40	163 481 291	163 481 405	163 481 327
2	50	163 481 292	163 481 406	163 481 328
2 1/2	65	163 481 293		163 481 329
3	80	163 481 294		163 481 330
4	100	163 481 295		163 481 331



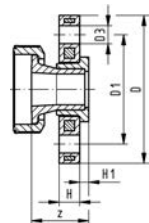
Valve end 546 Pro PVC-C (G73)

Assembly with backing flange PP-St Inch ANSI

Model:

- Joint made with special adhesive Tangit for PVC-C
- Connecting dimensions: ANSI/ASME B 16.5, ASTM D 4024, BS 1560 (bolt circle 150 lbs)

Size (inch)	PN (bar)	DN (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	z (mm)
1/2	16	15	163 481 425	0.255	95	60	16	12	6	37
3/4	16	20	163 481 426	0.316	105	70	16	12	7	42
1	16	25	163 481 427	0.530	115	79	16	16	7	45
1 1/4	16	32	163 481 428	0.823	140	89	16	16	8	47
1 1/2	16	40	163 481 429	1.135	150	98	16	18	8	56
2	16	50	163 481 430	1.435	165	121	19	18	9	65
2 1/2	16	65	163 481 431	2.459	185	140	19	18	10	77
3	16	80	163 481 432	3.309	200	152	19	20	11	85
4	16	100	163 481 433	4.557	229	190	19	20	12	93



Ball valve type 546 Pro PVC-C

With backing flanges PP-st Inch ANSI

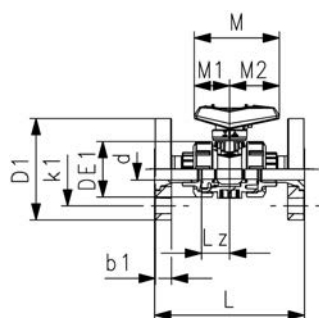
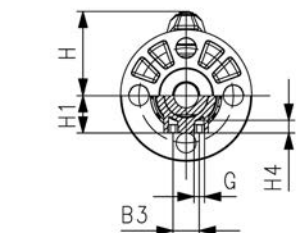
Model:

- Lockable lever as standard
- 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 for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from +GF+
- Individual configuration of valves 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)
20	15	1/2	16	185	800 024 423	1	0.600	800 059 402	1	0.700
25	20	3/4	16	350	800 014 862	1	0.760	800 047 037	1	0.700
32	25	1	16	700	800 070 455	1	0.800	800 046 363	1	1.200
40	32	1 1/4	16	1000	800 070 456	1	1.300	800 070 458	1	1.300
50	40	1 1/2	16	1600	800 063 570	1	1.500	800 047 209	1	2.300
63	50	2	16	3100	800 044 800	1	1.695	800 012 189	1	3.580



d (mm)	b1 (mm)	B3 (mm)	D1 (mm)	DE1 (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	k1 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)
20	12	25	95	50	M6	60.5	27	12	60	130	28	82	35	47
25	12	25	105	58	M6	74.0	30	12	70	150	33	106	44	62
32	14	25	115	68	M6	80.0	36	12	79	160	36	106	44	62
40	16	45	140	84	M8	95.0	44	15	89	180	43	131	57	74
50	16	45	150	97	M8	101.5	51	15	98	200	45	131	57	74
63	18	45	165	124	M8	116.5	64	15	121	230	51	152	66	86



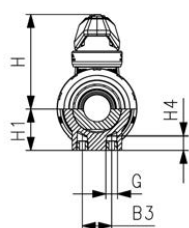
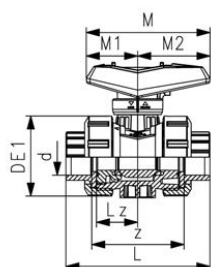
PVC-C Ball Valve type 546 Pro With solvent cement sockets PVC-C ISO

Model:

- Lockable lever as standard
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

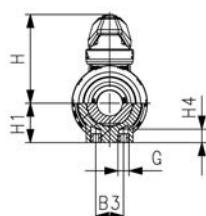
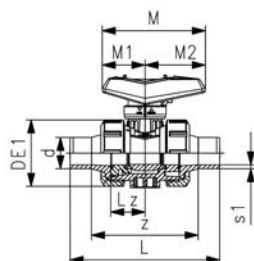
Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from +GF+
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	3/8	16	70	163 546 061	1	0.160	163 546 071	1	0.160
20	15	1/2	16	185	163 546 062	1	0.169	163 546 072	1	0.160
25	20	3/4	16	350	163 546 063	1	0.255	163 546 073	1	0.245
32	25	1	16	700	163 546 064	1	0.370	163 546 074	1	0.373
40	32	1 1/4	16	1000	163 546 065	1	0.648	163 546 075	1	0.658
50	40	1 1/2	16	1600	163 546 066	1	0.894	163 546 076	1	0.890
63	50	2	16	3100	163 546 067	1	1.653	163 546 077	1	1.662
75	65	2 1/2	16	5000	163 546 068	1	3.552	163 546 078	1	4.122
90	80	3	16	7000	163 546 069	1	6.646	163 546 079	1	6.698
110	100	4	16	11000	163 546 070	1	9.697	163 546 080	1	12.700

d (mm)	B3 (mm)	DE1 (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	25	50	M6	60.5	27	12	92	28	82	35	47	64
20	25	50	M6	60.5	27	12	95	28	82	35	47	64
25	25	58	M6	74.0	30	12	110	33	106	44	62	72
32	25	68	M6	80.0	36	12	123	36	106	44	62	79
40	45	84	M8	95.0	44	15	146	43	131	57	74	94
50	45	97	M8	101.5	51	15	157	45	131	57	74	95
63	45	124	M8	116.5	64	15	183	51	152	66	86	107
75	70	166	M8	169.0	85	15	233	68	270	64	205	144
90	120	200	M8	180.0	105	15	254	71	270	64	205	151
110	120	238	M12	194.0	123	22	301	82	326	71	255	174



PVC-C Ball Valve type 546 Pro With solvent cement spigots PVC-C ISO

Model:

- Lockable lever as standard (DN10-DN50)
- 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 for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from +GF+
- Individual configuration of valves possible

d	DN	Size	PN	kv-value	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code		(kg)	Code		(kg)
				(l/min)						
16	10	3/8	16	70	163 546 381	1	0.162	163 546 391	1	0.162
20	15	1/2	16	185	163 546 382	1	0.162	163 546 392	1	0.162
25	20	3/4	16	350	163 546 383	1	0.247	163 546 393	1	0.247
32	25	1	16	700	163 546 384	1	0.367	163 546 394	1	0.367
40	32	1 1/4	16	1000	163 546 385	1	0.665	163 546 395	1	0.665
50	40	1 1/2	16	1600	163 546 386	1	0.895	163 546 396	1	0.895
63	50	2	16	3100	163 546 387	1	1.655	163 546 397	1	1.655
75	65	2 1/2	16	5000	163 546 388	1	5.500	163 546 398	1	5.500
90	80	3	16	7000	163 546 389	1	8.200	163 546 399	1	8.200
110	100	4	16	11000	163 546 390	1	12.900	163 546 400	1	12.900

d	B3	DE1	G	H	H1	H4	L	Lz	M	M1	M2	s1	z
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
16	25	50	M6	60.5	27	12	114	28	82	35	47	3.0	88
20	25	50	M6	60.5	27	12	124	28	82	35	47	3.0	96
25	25	58	M6	74.0	30	12	143	33	106	44	62	3.0	112
32	25	68	M6	80.0	36	12	154	36	106	44	62	4.0	118
40	45	84	M8	95.0	44	15	174	43	131	57	74	4.5	134
50	45	97	M8	101.5	51	15	194	45	131	57	74	5.5	148
63	45	124	M8	116.5	64	15	224	51	152	66	86	7.0	170
75	70	166	M8	169.0	85	15	284	68	270	64	205	8.5	194
90	70	200	M8	180.0	105	15	300	71	270	64	205	10.0	196
110	120	238	M12	194.0	123	22	340	82	326	71	255	12.0	212



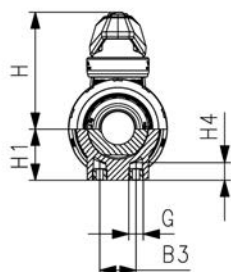
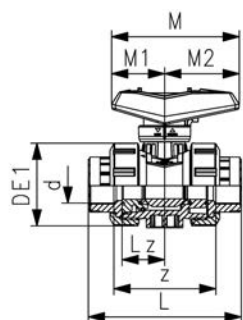
PVC-C Ball Valve type 546 Pro With threaded sockets PVC-C ISO Rp

Model:

- Lockable lever as standard
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

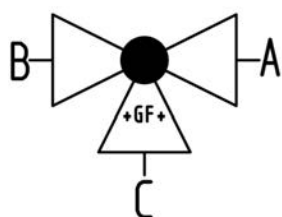
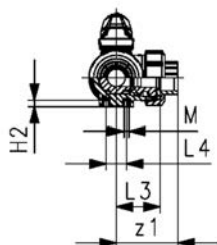
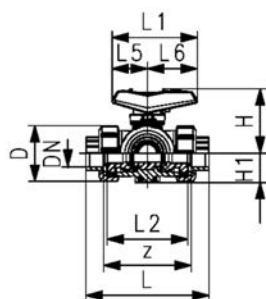
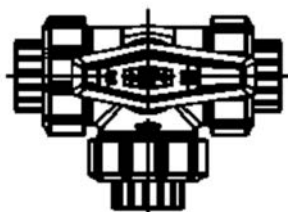
- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from +GF+
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	SP Weight (kg)	FKM Code	SP Weight (kg)
16	10	3/8	10	70	163 546 401	1	0.162	163 546 411
20	15	1/2	10	185	163 546 402	1	0.162	163 546 412
25	20	3/4	10	350	163 546 403	1	0.247	163 546 413
32	25	1	10	700	163 546 404	1	0.367	163 546 414
40	32	1 1/4	10	1000	163 546 405	1	0.665	163 546 415
50	40	1 1/2	10	1600	163 546 406	1	0.895	163 546 416
63	50	2	10	3100	163 546 407	1	1.655	163 546 417
75	65	2 1/2	10	5000	163 546 408	1	5.400	163 546 418
90	80	3	10	7000	163 546 409	1	8.100	163 546 419
110	100	4	10	11000	163 546 410	1	12.700	163 546 420

d (mm)	B3 (mm)	DE1 (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	25	50	M6	60.5	27	12	95	28	82	35	47	69
20	25	50	M6	60.5	27	12	100	28	82	35	47	67
25	25	58	M6	74.0	30	12	114	33	106	44	62	78
32	25	68	M6	80.0	36	12	127	36	106	44	62	85
40	45	84	M8	95.0	44	15	146	43	131	57	74	100
50	45	97	M8	101.5	51	15	152	45	131	57	74	106
63	45	124	M8	116.5	64	15	177	51	152	66	86	121
75	70	166	M8	169.0	85	15	233	68	270	64	205	144
90	70	200	M8	180.0	105	15	254	71	270	64	205	151
110	120	238	M12	194.0	123	22	301	82	326	71	255	174

Type 543 Pro



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

Model:

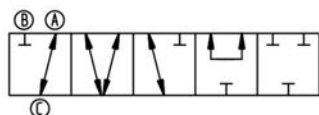
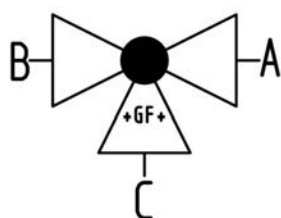
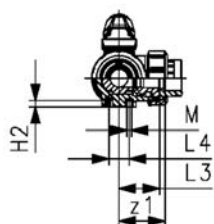
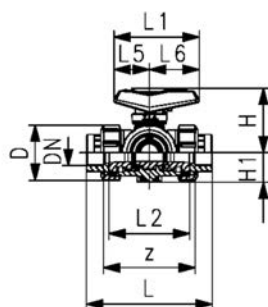
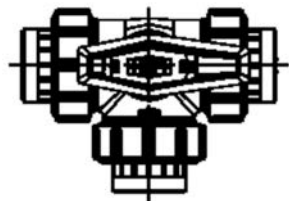
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel 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	DN	Size	PN	kv-value	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(mm)	(inch)	(bar)	(Δp=1 bar)	Code		(kg)	Code		(kg)
				(l/min)						
16	10	3/8	10	50	163 543 081	1	0.265	163 543 091	1	0.265
20	15	1/2	10	75	163 543 082	1	0.272	163 543 092	1	0.272
25	20	3/4	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 1/4	10	480	163 543 085	1	1.018	163 543 095	1	1.018
50	40	1 1/2	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	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(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)

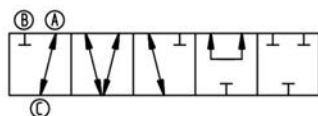
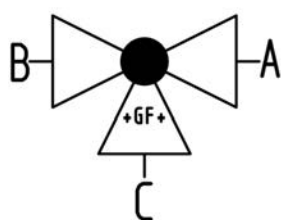
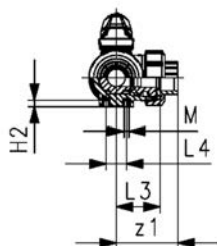
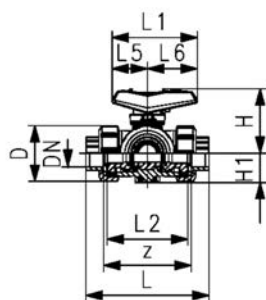
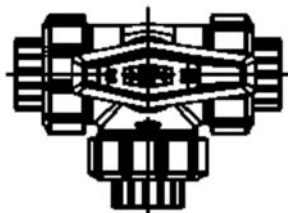
Option:

- 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 ($\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	NPT	$\frac{3}{8}$	10	50	163 543 101	1	0.265
20	15	NPT	$\frac{1}{2}$	10	75	163 543 102	1	0.272
25	20	NPT	$\frac{3}{4}$	10	150	163 543 103	1	0.391
32	25	NPT	1	10	280	163 543 104	1	0.598
40	32	NPT	1 $\frac{1}{4}$	10	480	163 543 105	1	1.018
50	40	NPT	1 $\frac{1}{2}$	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 (mm)	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:

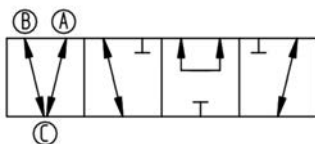
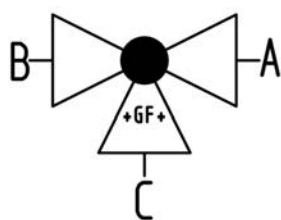
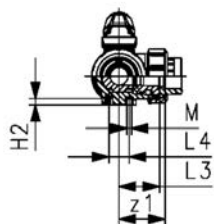
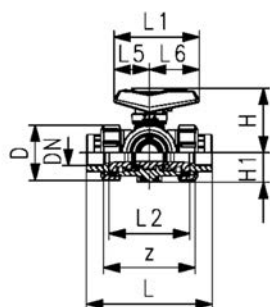
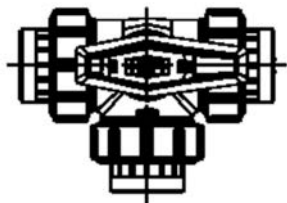
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel 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	DN	Size	PN	kv-value	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code		(kg)	Code		(kg)
				(l/min)						
16	10	3/8	10	140	163 543 281	1	0.264	163 543 291	1	0.264
20	15	1/2	10	200	163 543 282	1	0.271	163 543 292	1	0.271
25	20	3/4	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 1/4	10	1290	163 543 285	1	1.007	163 543 295	1	1.007
50	40	1 1/2	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	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(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 ($\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	NPT	$\frac{3}{8}$	10	140	163 543 301	1	0.264
20	15	NPT	$\frac{1}{2}$	10	200	163 543 302	1	0.271
25	20	NPT	$\frac{3}{4}$	10	470	163 543 303	1	0.389
32	25	NPT	1	10	793	163 543 304	1	0.590
40	32	NPT	1 $\frac{1}{4}$	10	1290	163 543 305	1	1.007
50	40	NPT	1 $\frac{1}{2}$	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 (mm)	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 valves

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

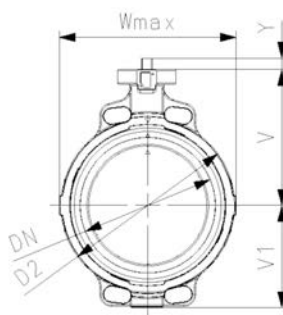
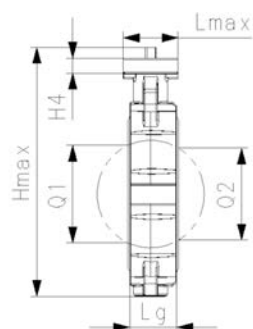
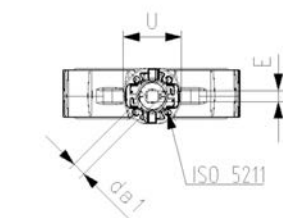
Note:

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)	Y (mm)	E (mm)	da1 (mm)
63	238.3	84.8	118.4	90	133.3	23	78.8	45	104	40		26.2	11	13.5
75	251.2	84.8	132.5	90	139.9	23	85.1	46	115	54	35	26.2	11	13.5
90	263.0	84.8	136.8	90	145.6	23	91.2	49	131	67	50	26.2	11	13.5
110	287.5	84.8	161.0	90	166.4	23	105.7	56	161	88	74	15.4	14	17.3
140	314.2	84.8	187.0	90	180.0	23	118.8	64	187	113	97	15.4	14	17.3
160	338.3	84.8	215.0	90	189.0	23	130.9	72	215	139	123	18.4	17	21.1
225	387.2	84.8	267.0	90	210.5	23	158.3	73	267	178	169	18.4	17	21.1
280	508.9	125.0	329.0	125	262.6	23	206.1	113	329	210	207	40.2	22	27.0
315	553.3	125.0	380.4	125	284.3	23	228.8	113	379	256	253	40.2	22	27.0





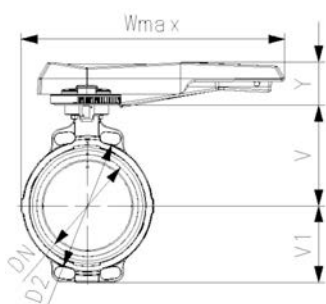
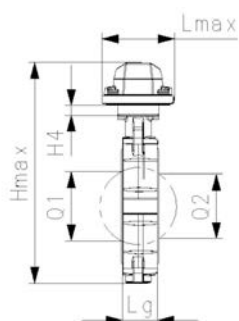
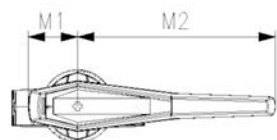
Butterfly valve type 567 PVC-C Hand lever with ratchet settings

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	3.881	163 567 027	1	3.904
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)	Y (mm)	M1 (mm)	M2 (mm)
63	278.9	115.2	269.0	90	133.3	23	78.8	45	104	40		66.8	64.7	205.5
75	291.8	115.2	271.8	90	139.9	23	85.1	46	115	54	35	66.8	64.7	205.5
90	303.6	115.2	273.9	90	145.6	23	91.2	49	131	67	50	66.8	64.7	205.5
110	342.2	115.2	336.0	90	166.4	23	105.7	56	161	88	74	70.1	64.9	255.5
140	368.9	115.2	349.0	90	180.0	23	118.8	64	187	113	97	70.1	64.9	255.5
160	390.0	115.2	363.0	90	189.0	23	130.9	72	215	139	123	70.1	64.9	255.5
225	455.1	149.4	543.0	90	210.5	23	158.3	73	267	178	169	86.3	103.6	409.5
280	555.0	149.4	574.0	125	262.6	23	206.1	113	329	210	207	86.3	103.6	409.5
315	599.4	149.4	599.7	125	284.3	23	228.8	113	379	256	253	86.3	103.6	409.5



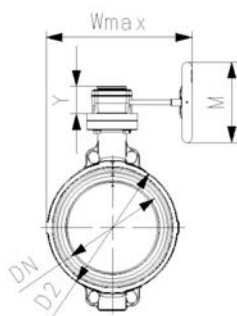
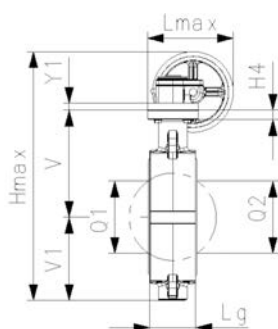
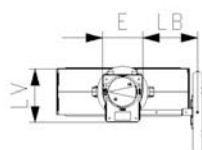
Butterfly valve type 567 PVC-C Reduction gear with handwheel

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)	Y (mm)	E (mm)	Y1 (mm)
63	319.4	169.1	240.2	90	133.3	23	78.8	45	104	40		61.2	80	
75	332.3	169.1	247.3	90	139.9	23	85.1	46	115	54	35	61.2	80	
90	344.1	169.1	249.4	90	145.6	23	91.2	49	131	67	50	61.2	80	
110	379.4	169.1	261.5	90	166.4	23	105.7	56	161	88	74	61.2	80	
140	406.1	169.1	274.5	90	180.0	23	118.8	64	187	113	97	61.2	80	
160	427.2	169.1	288.5	90	189.0	23	130.9	72	215	139	123	61.2	80	
225	476.1	169.1	267.0	90	210.5	23	158.3	73	267	178	169	61.2	80	
280	613.0	212.6	329.0	125	262.6	23	206.1	113	329	210	207	68.4	100	17
315	657.4	212.6	380.4	125	284.3	23	228.8	113	379	256	253	68.4	100	17

d (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	200	130.0	134.0
315	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:

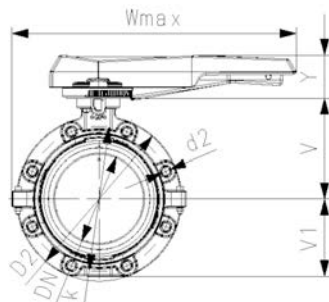
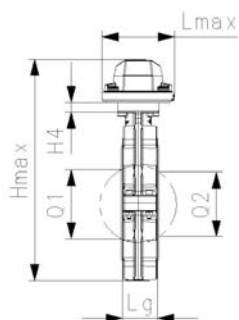
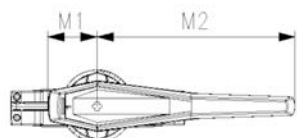
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 588, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ANSI/ASME B 16.5 class 150
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

Option:

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

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	Size	DN	PN	kv-value	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(inch)	(mm)	(bar)	(Δp=1 bar)	Code		(kg)	Code		(kg)
				(l/min)						
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	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	M1
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	278.9	115.2	287.8	90	133.3	23	78.8	44.7	160	40		UNC 5/8	63.7
75	291.8	115.2	296.3	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	63.7
90	303.6	115.2	310.3	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	63.7
110	343.6	115.2	375.2	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	63.7
140	372.8	115.2	391.2	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	63.7
160	393.6	115.2	395.2	90	189.0	23	134.5	71.5	284	139	123	UNC 3/4	63.7
225	458.1	149.4	588.1	90	210.5	23	161.5	72.5	341	178	169	UNC 3/4	101.7
280	557.6	149.4	628.1	125	264.4	23	206.9	113.2	412	210	207	UNC 7/8	101.7
315	607.0	149.4	663.1	125	285.2	23	235.5	114.6	482	256	253	UNC 7/8	101.7

d	M2
(mm)	(mm)
63	205.6
75	205.6
90	205.6
110	255.2
140	255.2
160	255.2
225	408.1
280	408.1
315	408.1



Lug-style, end installation butterfly valve type 578 PVC-C

With gear box

Flange standard ANSI/ASME

Model:

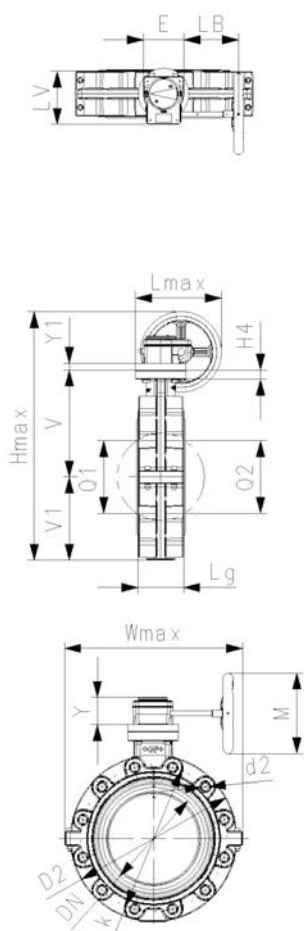
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 588, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ANSI/ASME B 16.5 class 150

Option:

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

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	Size	DN	PN	kv-value	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code		(kg)	Code		(kg)
				(l/min)						
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	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	319.4	169.1	263.5	90	133.3	23	78.8	44.7	160	40		UNC 5/8	61.2
75	332.3	169.1	272.0	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	61.2
90	344.1	169.1	286.0	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	61.2
110	380.8	169.1	301.0	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	61.2
140	410.0	169.1	317.0	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	61.2
160	430.8	169.1	321.0	90	189.0	23	134.5	71.5	284	139	123	UNC 3/4	61.2
225	479.3	169.1	360.0	90	210.5	23	161.5	72.5	341	178	169	UNC 3/4	61.2
280	615.6	212.6	440.0	125	264.4	23	206.9	113.2	412	210	207	UNC 7/8	68.4
315	665.0	212.6	510.0	125	285.2	23	235.5	114.6	482	256	253	UNC 7/8	68.4

d	E	Y1	M	LV	LB
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	80		160	112.3	129.5
75	80		160	112.3	129.5
90	80		160	112.3	129.5
110	80		160	112.3	129.5
140	80		160	112.3	129.5
160	80		160	112.3	129.5
225	80		160	112.3	129.5
280	100	17	200	130.0	134.0
315	100	17	200	130.0	134.0



Lug-style, end installation butterfly valve type 578 PVC-C

Bare shaft

Flange standard ANSI/ASME

Model:

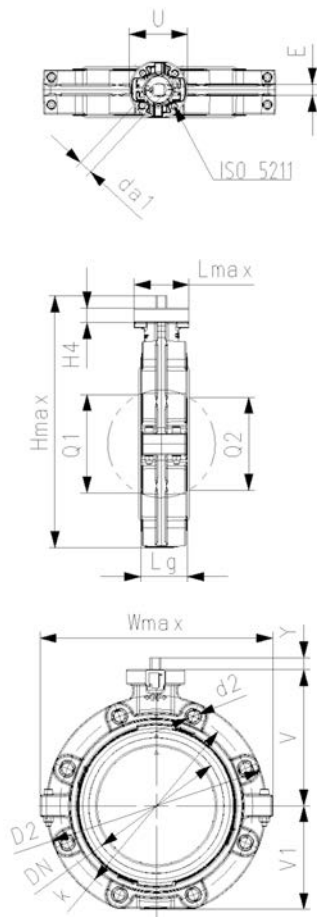
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 588, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ANSI/ASME B 16.5 class 150
- Interface F07 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211

Option:

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

Note:

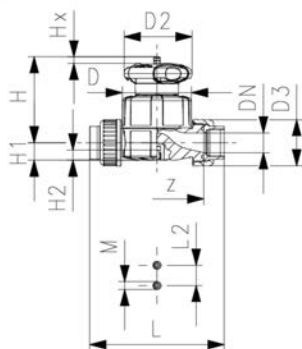
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	kv-value	EPDM	SP	Weight	FKM	SP	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code		(kg)	Code		(kg)
				(l/min)						
63	2	50	10	740	163 578 902	1	1.299	163 578 922	1	1.299
75	2 1/2	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	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	da1
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	238.3	84.8	159.5	90	133.3	23	78.8	44.7	160	40		UNC 5/8	13.5
75	251.2	84.8	166.1	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	13.5
90	263.0	84.8	171.8	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	13.5
110	288.9	84.8	181.4	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	17.3
140	318.1	84.8	195.4	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	17.3
160	341.9	84.8	207.4	90	189.0	23	134.5	71.5	284	139	123	UNC 3/4	21.1
225	390.4	84.8	228.9	90	210.5	23	161.5	72.5	341	178	169	UNC 3/4	21.1
280	511.5	125.0	304.6	125	264.4	23	206.9	113.2	412	210	207	UNC 7/8	27.0
315	560.9	125.0	325.4	125	285.2	23	235.5	114.6	482	256	253	UNC 7/8	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:

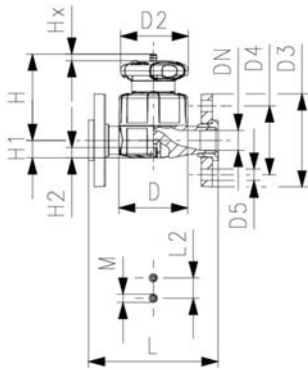
- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches

* O-Ring material: FKM

d	DN	Size	PN	kv-value	EPDM	SP	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code		(kg)
				(l/min)			
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	PTFE/EPDM	SP	Weight
Code	Code		(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	D2	D3	H	H1	H2	L	L2	M	z	Lift = Hx
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(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:

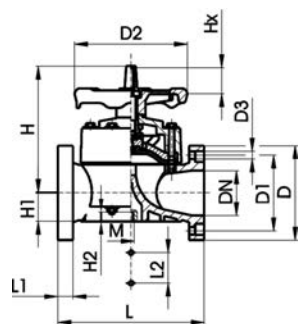
- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches

* O-Ring material: FKM

d	DN	Size	PN	kv-value	EPDM	SP	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code		(kg)
				(l/min)			
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	PTFE/EPDM	SP	Weight
Code	Code		(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	D2	D3	D4	D5	H	H1	H2	L	L2	M	Lift = Hx
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(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 ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	PTFE with EPDM supp. diaphragm Code
	75	65	2 1/2	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

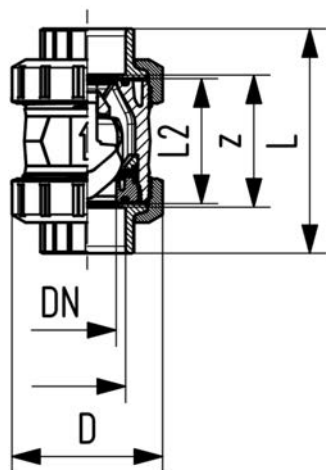
Cone check valves



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 ($\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	NPT	3/8	16	190	163 561 101	1	0.120
20	15	NPT	1/2	16	180	163 561 102	1	0.130
25	20	NPT	3/4	16	380	163 561 103	1	0.260
32	25	NPT	1	16	460	163 561 104	1	0.290
40	32	NPT	1 1/4	16	850	163 561 105	1	0.490
50	40	NPT	1 1/2	16	1080	163 561 106	1	0.710
63	50	NPT	2	16	1670	163 561 107	1	1.460
75	65	NPT	2 1/2	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

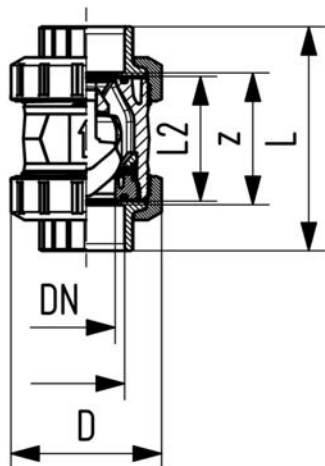
FKM Code	SP	Weight (kg)	D (mm)	L (mm)	L2 (mm)	z (mm)
163 561 111	1	0.120	50	105	56	67
163 561 112	1	0.130	50	105	56	61
163 561 113	1	0.280	58	121	65	70
163 561 114	1	0.290	68	133	71	76
163 561 115	1	0.490	84	154	85	90
163 561 116	1	0.720	97	164	89	94
163 561 117	1	1.470	124	183	101	107
163 561 118	1	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 ($\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
10	3/8	16	190	800 070 485	1	0.130	800 070 486	1	0.130
20	1/2	16	180	800 054 647	1	0.130	800 058 405	1	0.130
25	3/4	16	380	800 053 919	1	0.250	800 065 033	1	0.250
32	1	16	460	800 052 424	1	0.320	800 056 445	1	0.320
40	1 1/4	16	850	800 054 654	1	0.530	800 070 487	1	0.530
50	1 1/2	16	1080	800 052 425	1	0.810	800 056 447	1	0.810
63	2	16	1670	800 052 426	1	1.530	800 052 295	1	1.530

D	L	L2	z
(mm)	(mm)	(mm)	(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

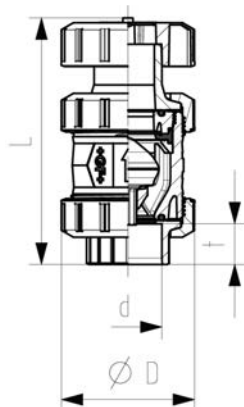


Ventilating and bleed valve
Type 591 PVC-C
With solvent cement sockets Inch ASTM
Inclusive 2 threaded valve ends NPT

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

d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)
16	10	NPT	3/8	16	163 591 101	163 591 111	50	111	19
20	15	NPT	1/2	16	163 591 102	163 591 112	50	119	23
25	20	NPT	3/4	16	163 591 103	163 591 113	58	137	25
32	25	NPT	1	16	163 591 104	163 591 114	68	152	28
40	32	NPT	1 1/4	16	163 591 105	163 591 115	84	176	31
50	40	NPT	1 1/2	16	163 591 106	163 591 116	97	193	35
63	50	NPT	2	16	163 591 107	163 591 117	124	229	38
75	65	NPT	2 1/2	16	163 591 108	163 591 118	166	258	45
90	80	NPT	3	16	163 591 109	163 591 119	200	277	49
110	100	NPT	4	16	163 591 110	163 591 120	238	320	58

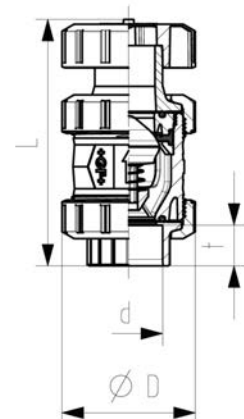


Ventilating valve type 595 PVC-C
With solvent cement sockets Inch ASTM
Inclusive 2 threaded valve ends NPT

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

d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)
16	10	NPT	3/8	16	163 595 101	163 595 111	50	111	19
20	15	NPT	1/2	16	163 595 102	163 595 112	50	119	23
25	20	NPT	3/4	16	163 595 103	163 595 113	58	137	25
32	25	NPT	1	16	163 595 104	163 595 114	68	152	28
40	32	NPT	1 1/4	16	163 595 105	163 595 115	84	176	31
50	40	NPT	1 1/2	16	163 595 106	163 595 116	97	193	35
63	50	NPT	2	16	163 595 107	163 595 117	124	229	38
75	65	NPT	2 1/2	16	163 595 108	163 595 118	166	258	45
90	80	NPT	3	16	163 595 109	163 595 119	200	277	49
110	100	NPT	4	16	163 595 110	163 595 120	238	320	58



Pressure regulating valves

Type 582



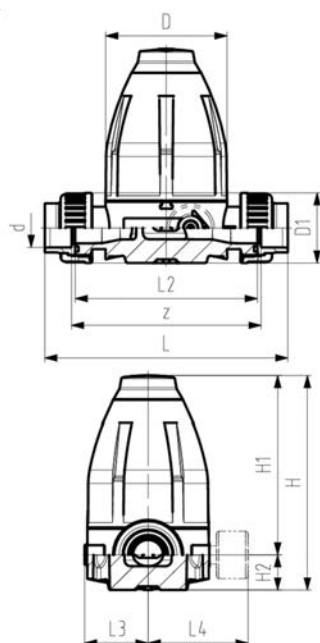
Pressure reducing valve type 582 PVC-C
Unions with solvent cement sockets ASTM
Without manometer

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	O-rings FKM Code
20	15	½	10	163 582 202	0.730	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

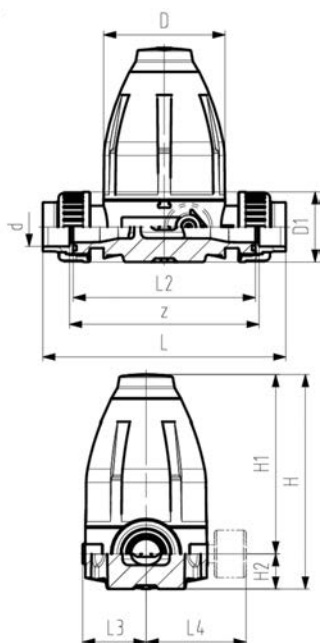


Pressure reducing valve type 582 PVC-C
Unions with solvent cement sockets ASTM
With manometer

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	DN	Size	PN	O-rings	Weight	SP	O-rings
(mm)	(mm)	(inch)	(bar)	EPDM	(kg)		FKM
				Code			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	D1	H	H1	H2	H3	L	L2	L3	L4	M	z	Inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(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



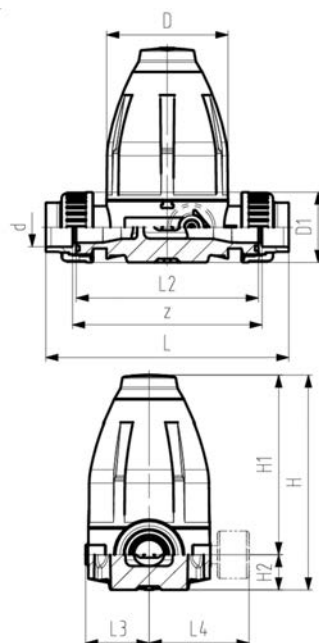
Pressure retaining valve type 586 PVC-C
Unions with solvent cement sockets ASTM
Without manometer

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

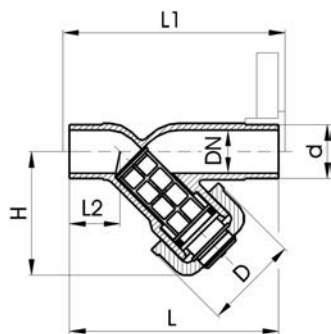


d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	SP	O-rings FKM Code
20	15	½	10	163 586 202	0.720	1	163 586 212
25	20	¾	10	163 586 203	1.560	1	163 586 213
32	25	1	10	163 586 204	1.600	1	163 586 214
40	32	1 ¼	10	163 586 205	4.360	1	163 586 215
50	40	1 ½	10	163 586 206	4.430	1	163 586 216
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



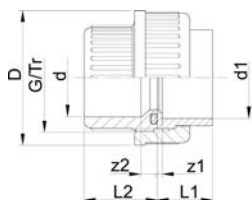
Screen stainless steel Screen perforation 0.5 mm

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

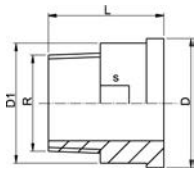
Union end stainless steel R

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 3/8	16	724 600 705	0.052	24	22	30	19
20		R 1/2	16	724 600 706	0.083	30	28	34	24
25		R 3/4	16	724 600 707	0.125	39	36	36	32

table continued on the next page



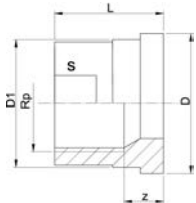
d	Thread Type	Size	PN	Code	Weight	D	D1	L	s
(mm)		(inch)	(bar)		(kg)	(mm)	(mm)	(mm)	(mm)
32	R	1	16	724 600 708	0.189	45	42	40	37
40	R	1 ¼	16	724 600 709	0.356	57	53	46	48
50	R	1 ½	16	724 600 710	0.407	63	59	48	54
63	R	2	16	724 600 711	0.668	78	74	55	69



Union end stainless steel Rp

Model:

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



d	Thread Type	Size	PN	Code	Weight	z	D	D1	L	s
(mm)		(inch)	(bar)		(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
16	Rp	¾	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



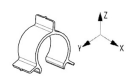
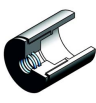
Scan the QR code to view:



- Double-See™ system overview brochure



- Double-See™ technical manual

	Pipes	296
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	Leak detection fittings	307
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Pipes



Pipe, PVC 80 x PVC 80 (20-ft lengths)

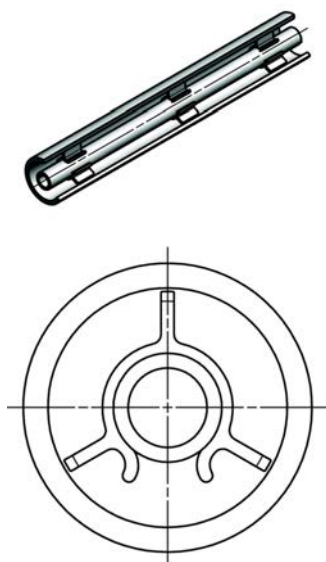
Inch (inch)	Code
1/2 x 2	8808005020AB
3/4 x 3	8808007030AB
1 x 3	8808010030AB
1-1/2 x 4	8808015040AB
2 x 4	8808020040AB
3 x 6	8808030060AB
4 x 8	8808040080AB
6 x 10	8808060100AB
8 x 12	8808080120AB



Pipe, PVC 80 x PVC 40 Clear (20-ft lengths)

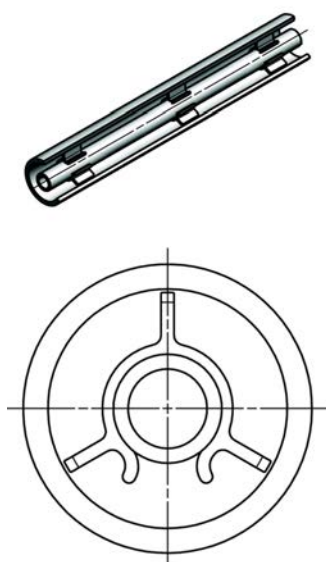
Size (inch)	Code
1/2 x 2	8308005020AB
3/4 x 3	8308007030AB
1 x 3	8308010030AB
1-1/2 x 4	8308015040AB
2 x 4	8308020040AB
3 x 6	8308030060AB
4 x 8	8308040080AB
6 x 10	8308060100AB
8 x 12	8308080120AB

Pipe, 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 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

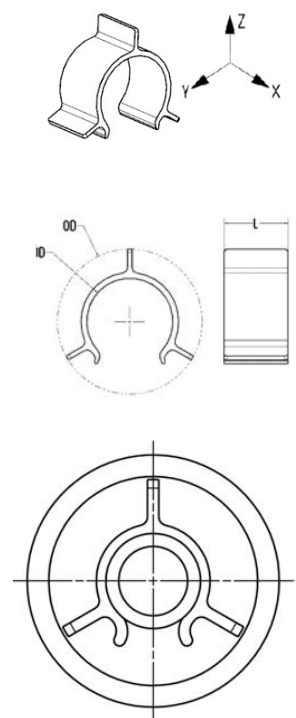
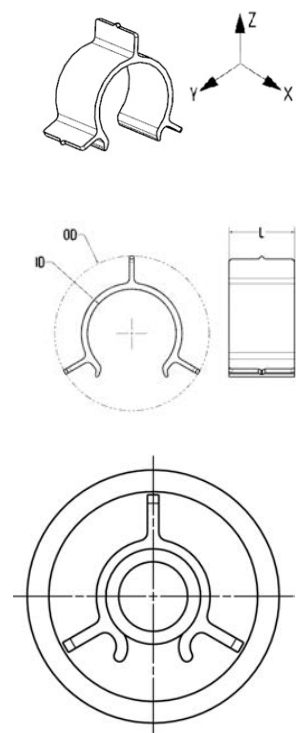
Inch (inch)	Code	Pack Qty	Pcs / 20 ft	ID (inch)	OD (inch)	L (inch)	Fy, Fz (lbs/N)	F-z (lbs/N)
1/2 x 2	898 005 020	10	9	0.82	1.97	1.57	67 / 300	73.7 / 330
3/4 x 3	898 007 030	10	9	1.03	2.96	1.57	67 / 300	80.5 / 360
1 x 3	898 010 030	10	8	1.29	2.96	1.57	67 / 300	80.5 / 360
1-1/2 x 4	898 015 040	10	7	1.88	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:

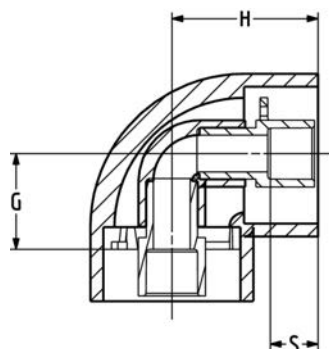
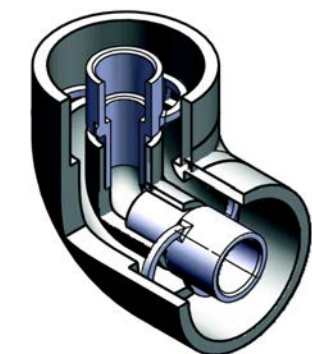
- For IPS size PVC or CPVC only.
- Fits carrier (inner) Sch40 or Sch80 pipe, and containment (outer) Sch80 pipe only.
- Only for use with GF Double-See pipe and fitting system. Consult GF Piping Systems for installation and spacing recommendations.
- Fx, Fy, and Fz are rated design loads in lb-f (pounds-force) 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



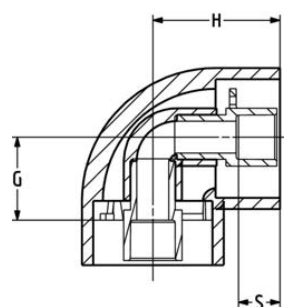
Elbows

90° Elbow, PVC 80 x PVC 80



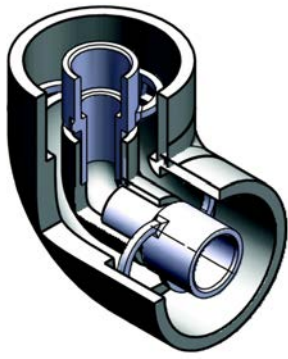
Inch (inch)	Code	G (inch)	H (inch)	S (inch)
1/2	8806005020	1.90	2.78	0.88
3/4	8806007030	2.75	3.75	1.00
1 x	8806010030	2.56	3.75	1.19
1-1/2 x 4	8806015040	3.20	4.60	1.40
2 x	8806020040	3.10	4.60	1.50
3 x	8806030060	4.80	6.70	1.90
4 x	8806040080	6.47	8.67	2.20
6 x 10	8806060100	7.77	10.77	3.00
8 x 12	8806080120	9.46	13.09	3.50

90° Elbow, PVC 80 x CPVC 80

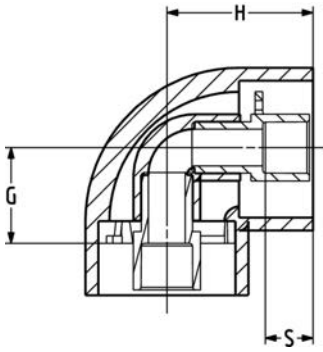


Inch (inch)	Code	G (inch)	H (inch)	S (inch)
1/2	8906005020	1.90	2.78	0.88
3/4	8906007030	2.75	3.75	1.00
1	8906010030	2.56	3.75	1.19
1 1/2	8906015040	3.20	4.60	1.40
2	8906020040	3.10	4.60	1.50
3	8906030060	4.80	6.70	1.90
4	8906040080	6.47	8.67	2.20
6	8906060100	7.77	10.77	3.00
8	8906080120	9.46	13.09	4.00

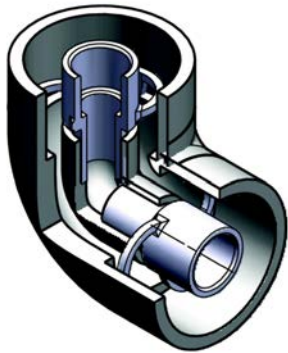
90° Elbow, CPVC 80 x PVC 80



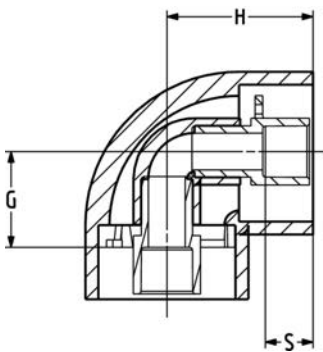
Inch (inch)	Code	G (inch)	H (inch)	S (inch)
1/2 x 2	9806005020	1.90	2.78	0.88
3/4 x 3	9806007030	2.75	3.75	1.00
1 x 3	9806010030	2.56	3.75	1.19
1-1/2 x 4	9806015040	3.20	4.60	1.40
2 x 4	9806020040	3.10	4.60	1.50
3 x 6	9806030060	4.80	6.70	1.90
4 x 8	9806040080	6.47	8.67	2.20
6 x 10	9806060100	7.77	10.77	3.00
8 x 12	9806080120	9.46	13.09	4.00

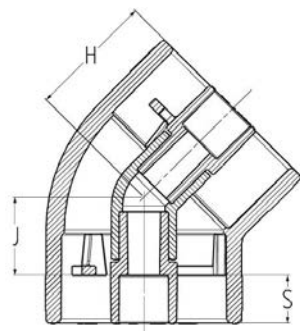
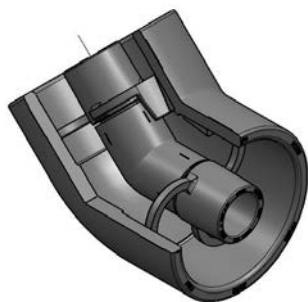


90° Elbow, CPVC 80 x CPVC 80



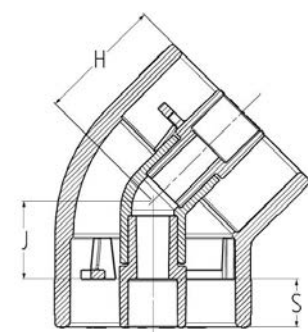
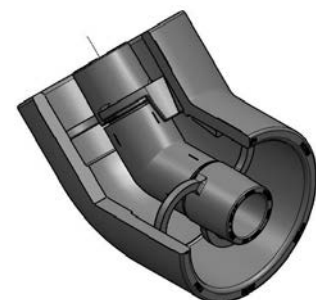
Inch (inch)	Code	G (inch)	H (inch)	S (inch)
1/2 x 2	9906005020	1.90	2.78	0.88
3/4 x 3	9906007030	2.75	3.75	1.00
1 x 3	9906010030	2.56	3.75	1.19
1-1/2 x 4	9906015040	3.19	4.59	1.40
2 x 4	9906020040	3.09	4.59	1.50
3 x 6	9906030060	4.80	6.70	1.90
4 x 8	9906040080	6.32	8.52	2.20
6 x 10	9906060100	7.70	10.70	3.00
8 x 12	9906080120	9.46	13.09	4.00





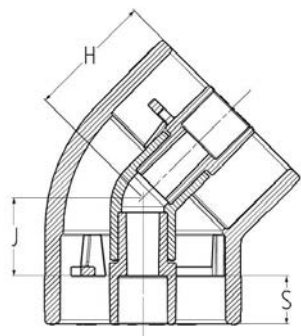
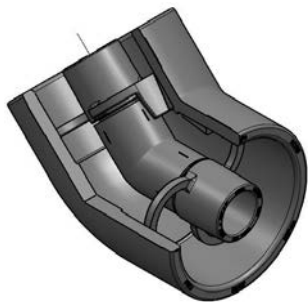
45° Elbow, PVC 80 x PVC 80

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



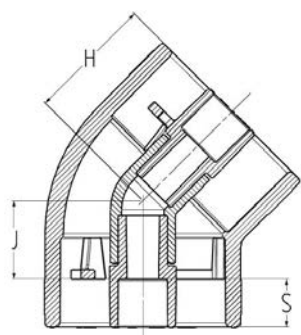
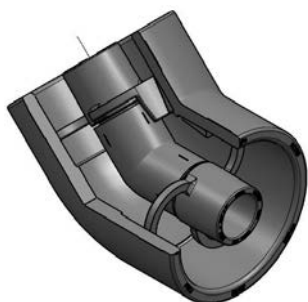
45° Elbow, PVC 80 x CPVC 80

Inch (inch)	Code	J (inch)	H (inch)	S (inch)
1/2	8917005020	1.29	2.16	0.87
3/4	8917007030	1.66	2.66	1.00
1	8917010030	1.52	2.66	1.14
1 1/2	8917015040	1.91	3.24	1.33
2	8917020040	1.74	3.24	1.50
3	8917030060	3.01	4.81	1.80
4	8917040080	3.95	6.15	2.20
6	8917060100	4.46	7.46	3.00
8	8917080120	5.04	9.04	4.00



45° Elbow, CPVC 80 x PVC 80

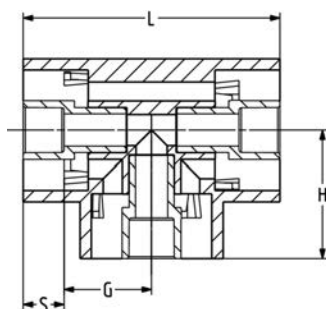
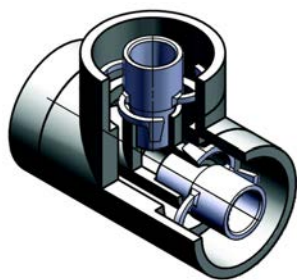
Inch (inch)	Code	J (inch)	H (inch)	S (inch)
1/2 x 2	9817005020	1.29	2.16	0.87
3/4 x 3	9817007030	1.66	2.66	1.00
1 x 3	9817010030	1.52	2.66	1.14
1-1/2 x 4	9817015040	1.91	3.24	1.33
2 x 4	9817020040	1.74	3.24	1.50
3 x 6	9817030060	3.01	4.81	1.80
4 x 8	9817040080	3.95	6.15	2.20
6 x 10	9817060100	4.46	7.46	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

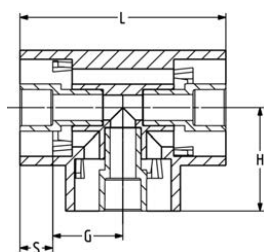
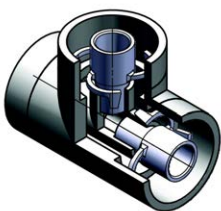


Tee, PVC 80 x PVC 80

Model:

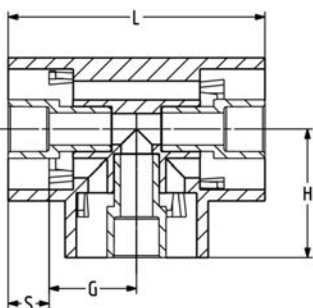
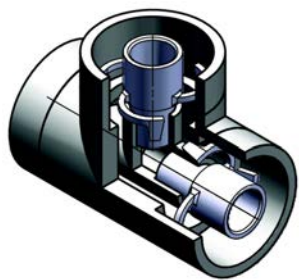
- 8 x 12 size has fiberglass wrapping reinforcement on the containment fitting

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



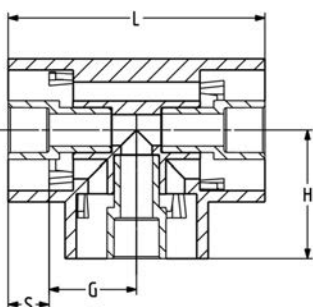
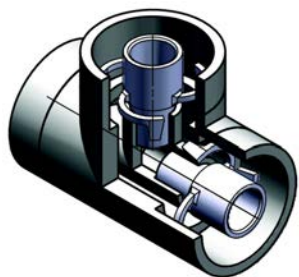
Tee, PVC 80 x CPVC 80

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



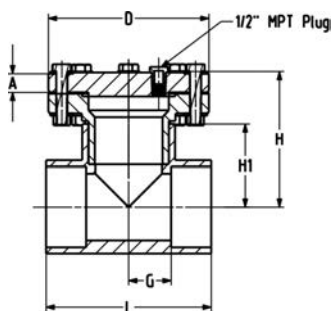
Tee, CPVC 80 x PVC 80

Inch (inch)	Code	L (inch)	H (inch)	G (inch)	S (inch)
1/2	9801005020	5.56	2.78	1.90	0.88
3/4	9801007030	7.50	3.75	2.75	1.00
1	9801010030	7.50	3.75	2.56	1.19
1 1/2	9801015040	9.26	4.63	3.23	1.40
2	9801020040	9.26	4.63	3.13	1.50
3	9801030060	13.26	6.63	4.73	1.90
4	9801040080	17.40	8.70	6.50	2.20
6	9801060100	21.70	10.85	7.85	3.00
8	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:

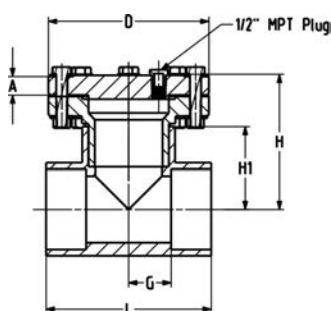
- Includes 316 SS bolt kit hardware, and EPDM full face gasket on blind flange

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						

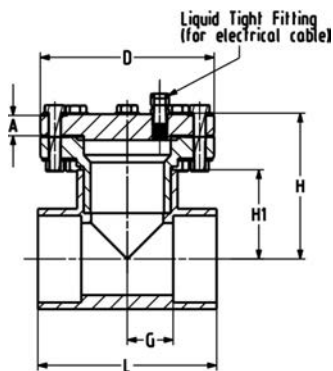
Access Tee, CPVC

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)
5	9801853020	5.64	2.82	1.32	6.00	4.96	0.92
¾	9801853030	7.50	3.75	1.85	7.50	6.40	1.03
5	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
6	9801853100	22.50	11.25	5.75	16.00	15.14	1.00
	9801853120						



Access Tee (Liquid Tight), PVC

Model:

- Includes 316 SS bolt kit hardware, and EPDM full face gasket on blind flange

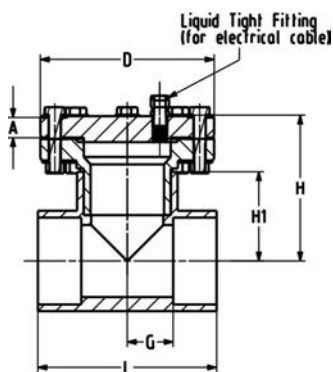
Size (inch)	Code	L (inch)	H1 (inch)	G (inch)	D (inch)	H (inch)	A (inch)
2	8801853020LT	5.56	2.78	1.29	6.00	4.93	0.92
3	8801853030LT	7.50	3.75	1.85	7.50	6.40	1.03
4	8801853040LT	9.26	4.63	2.38	9.00	7.75	1.35
6	8801853060LT	13.26	6.63	3.55	11.00	10.04	1.49
8	8801853080lt	17.40	8.70	4.59	13.50	13.07	1.63
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						



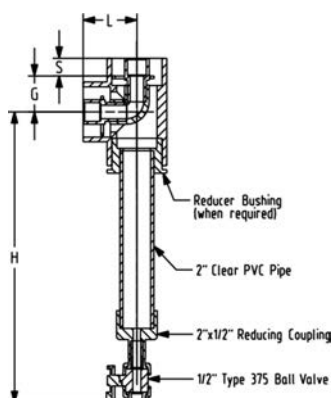
Leak detection fittings

90° Low Point Drain/High Point Vent Tee PVC 80 x PVC 80

Visual Leak Detection



Inch (inch)	Code	G (inch)	L (inch)	S (inch)	H (inch)
1/2	8802005020	1.90	2.78	0.88	19.66
3/4	8802007030	2.75	3.75	1.00	20.28
1 x	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	8802020040	3.13	4.63	1.50	20.76
3 x	8802030060	4.73	6.63	1.90	24.09
4 x	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

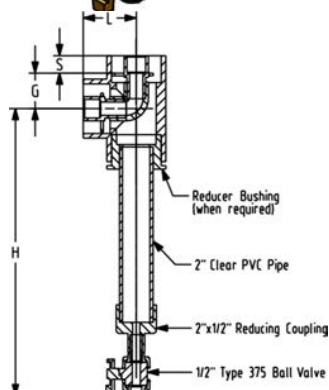


90° Low Point Drain/High Point Vent Tee PVC 80 x CPVC 80

Visual Leak Detection

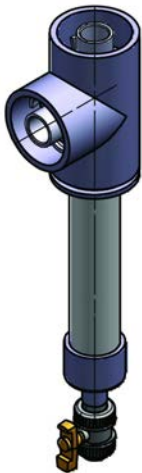


Inch (inch)	Code	G (inch)	H (inch)	S (inch)
1/2 x 2	8902005020	1.90	2.78	0.88
3/4 x 3	8902007030	2.75	3.75	1.00
1 x 3	8902010030	2.56	3.75	1.19
1-1/2 x 4	8902015040	3.20	4.60	1.40
2 x 4	8902020040	3.10	4.60	1.50
3 x 6	8902030060	4.80	6.70	1.90
4 x 8	8902040080	6.47	8.67	2.20
6 x 10	8902060100	7.77	10.77	3.00

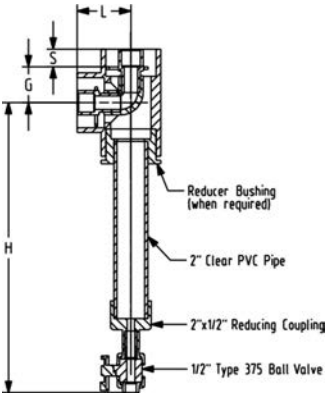


90° Low Point Drain/High Point Vent Tee CPVC 80 x PVC 80

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	9802010030	2.56	3.75	1.79	20.28
1 1/2	9802015040	3.23	4.63	1.40	20.76
2	9802020040	3.13	4.63	1.50	20.76
3	9802030060	4.73	6.63	1.90	24.09
4	9802040080	6.50	8.70	2.20	24.47
6	9802060100	7.85	10.85	3.00	27.75

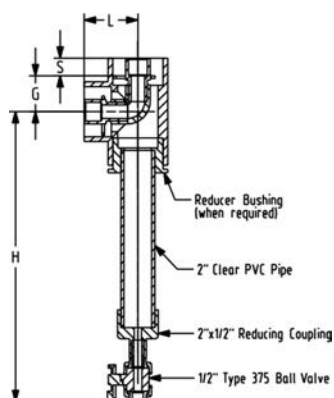


90° Low Point Drain/High Point Vent Tee CPVC 80 x CPVC 80

Visual Leak Detection



Inch (inch)	Code	G (inch)	L (inch)	S (inch)	H (inch)
1/2	9902005020	1.90	2.78	0.88	21.44
3/4	9902007030	2.75	3.75	1.00	22.02
1 x	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	9902020040	3.13	4.63	1.50	22.50
3 x	9902030060	4.63	6.53	1.90	25.83
4 x	9902040080	6.43	8.63	2.20	26.21
6 x 10	9902060100	8.25	11.25	3.00	27.75

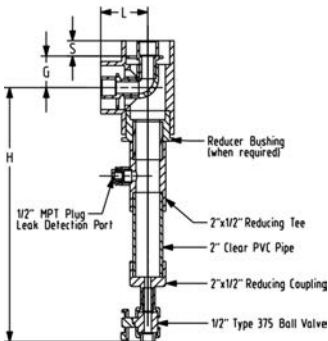




90° Low Point Drain/High Point Vent Tee PVC 80 x PVC 80

Visual Leak Detection and Leak Detection Port

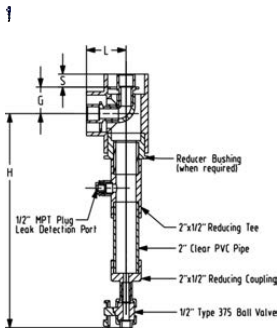
Inch (inch)	Code	G (inch)	L (inch)	S (inch)	H (inch)
1/2 x 2	8803005020	1.90	2.78	0.88	19.66
3/4 x 3	8803007030	2.75	3.75	1.00	20.28
1 x 3	8803010030	2.56	3.75	1.79	20.28
1-1/2 x 4	8803015040	3.23	4.63	1.40	20.76
2 x 4	8803020040	3.13	4.63	1.50	20.76
3 x 6	8803030060	4.73	6.63	1.90	24.09
4 x 8	8803040080	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 PVC 80 x CPVC 80

Visual Leak Detection and Leak Detection Port

Inch (inch)	Code	G (inch)	H (inch)	S (inch)
1/2	8903005020	1.90	2.78	0.88
3/4	8903007030	2.75	3.75	1.00
1 x	8903010030	2.56	3.75	1.19
1-1/2 x 4	8903015040	3.20	4.60	1.40
2 x	8903020040	3.10	4.60	1.50
4 x	8903040080	6.47	8.67	2.20
4 x	8903040080	6.47	8.67	2.20
6 x 10	8903060100	7.77	10.77	3.00

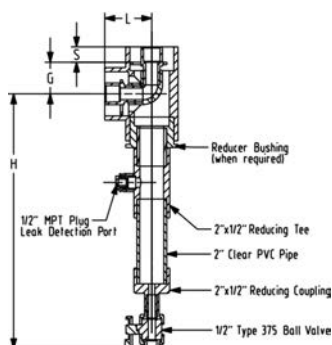


90° Low Point Drain/High Point Vent Tee CPVC 80 x PVC 80

Visual Leak Detection and Leak Detection Port



Inch (inch)	Code	G (inch)	L (inch)	S (inch)	H (inch)
1/2	9803005020	1.90	2.78	0.88	19.66
3/4	9803007030	2.75	3.75	1.00	20.28
1	9803010030	2.56	3.75	1.79	20.28
1 1/2	9803015040	3.23	4.63	1.40	20.76
2	9803020040	3.13	4.63	1.50	20.76
3	9803030060	4.73	6.63	1.90	24.09
4	9803040080	6.50	8.70	2.20	24.47
6	9803060100	7.85	10.85	3.00	27.75

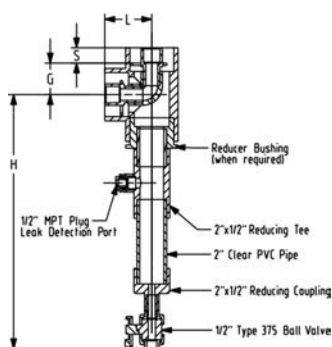


90° Low Point Drain/High Point Vent Tee CPVC 80 x CPVC 80

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

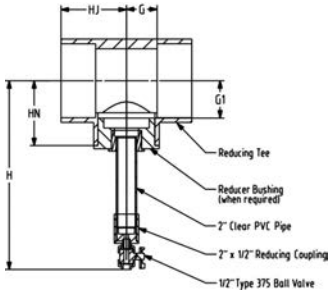




Low Point Drain/High Point Vent Tee, PVC

Visual Leak Detection

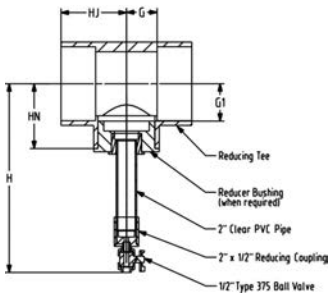
Secondary (inch)	Reducing Tee (inch)	Code	H (inch)	HJ (inch)	HN (inch)	G (inch)	G1 (inch)
2	2 x 2	8801375020	17.28	2.78	2.78	1.29	1.29
3	3 x 2	8801375030	17.90	3.21	3.40	1.31	1.87
4	4 x 2	8801375040	18.38	3.52	3.88	1.26	2.37
6	6 x 2	8801375060	21.71	6.58	7.21	3.50	5.65
8	8 x 2	8801375080	22.09	7.63	7.59	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

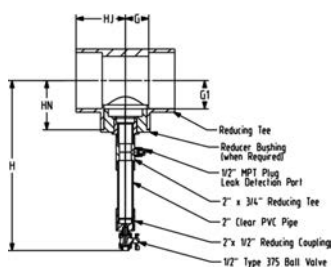
Visual Leak Detection

Secondary (inch)	Reducing Tee (inch)	Size (inch)	Code	H (inch)	HJ (inch)	HN (inch)	G (inch)	G1 (inch)
2	2 x 2	1/2	9801375020	17.32	2.82	2.82	1.32	1.32
3	3 x 2	3/4	9801375030	17.90	3.21	3.40	1.31	1.87
4	4 x 2	2	9801375040	18.38	3.52	3.88	1.26	2.37
6	6 x 2	6	9801375060	21.71	6.58	7.21	3.56	5.65
8	8 x 2	4	9801375080	22.09	7.63	7.59	3.59	3.56
10	10 x 2	6	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

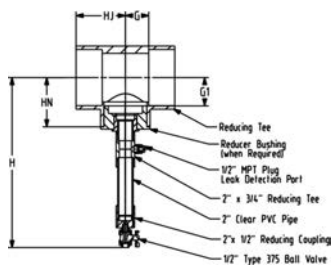
Visual Leak Detection and Leak Detection Port



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

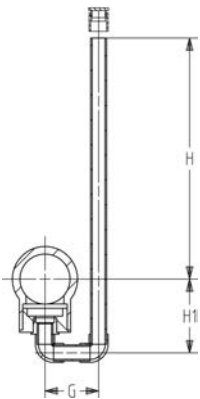
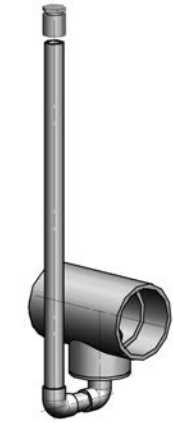


Secondary (inch)	Reducing Tee (inch)	Code	H (inch)	HJ (inch)	HN (inch)	G (inch)	G1 (inch)
2	2 x 2	9801375020P	21.44	2.82	2.82	1.32	1.32
3	3 x 2	9801375030P	22.02	3.21	3.40	1.31	1.87
4	4 x 2	9801375040P	22.50	3.52	3.88	1.26	2.37
6	6 x 2	9801375060P	25.83	6.58	7.21	3.56	5.65
8	8 x 2	9801375080P	26.21	7.63	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

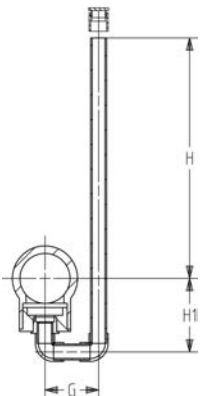
Size (inch)	Reducing Tee (inch)	Code	H (inch)	H1 (inch)	G (inch)
2	2 x 2	8804806020	36	6.56	6.56
3	3 x 2	8804806030	36	7.15	6.56
4	4 x 2	8804806040	36	7.66	6.56
6	6 x 2	8804806060	36	10.99	8.00
8	8 x 2	8804806080	36	12.33	8.00
10	10 x 2	8804806100	36	16.16	10.00



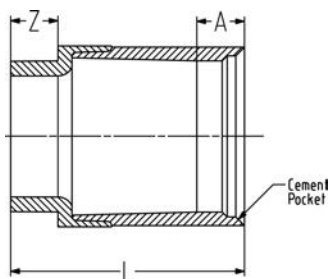
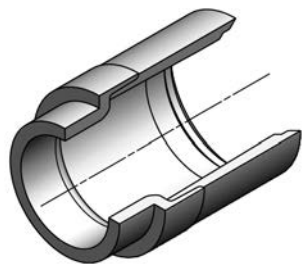
Low Point leak Detection Sump CPVC

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



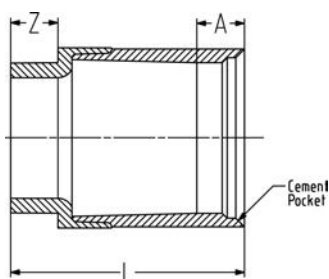
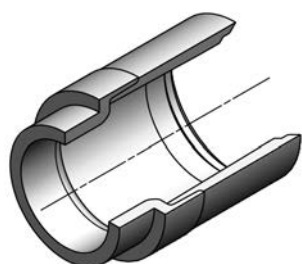
Closure Coupling, PVC

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

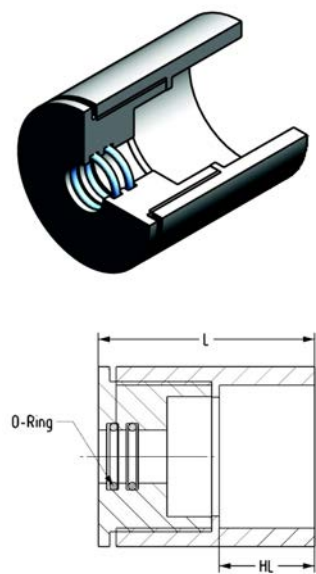
For use with compliance to ASME B31.3

Standard couplings are available in the Vinyls Price List

Two component adhesive/sealer required located in the accessories section of Double-See

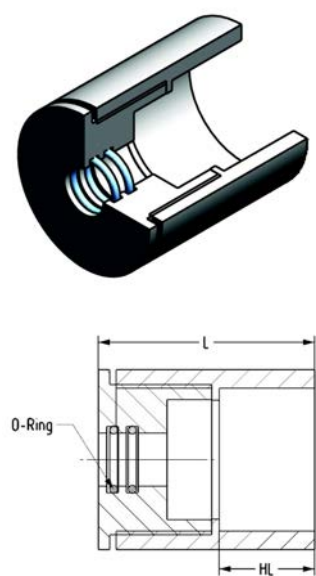
Size (inch)	Code	L (inch)	A (inch)	Z (inch)
2	931020	3.71	0.75	0.75
3	931030	4.74	1.00	0.75
4	931040	5.46	1.00	1.00
6	931060	9.41	1.19	1.50
8	931080	10.70	1.19	1.75
10	931100	12.95	1.20	2.50
12	931120	15.12	1.22	3.25

Terminations



Termination, PVC 80

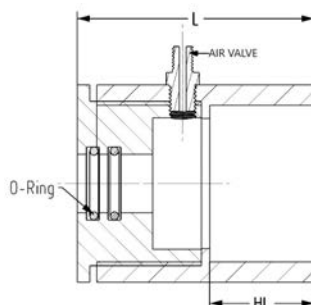
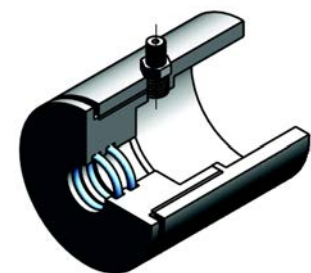
Size (inch)	FKM Code	EPDM Code	L (inch)	HL (inch)	Design
½ x 2	825005020F	825005020E	3.42	1.51	STD
¾ x 3	825007030F	825007030E	3.89	1.95	EXT
1 x 3	825010030F	825010030E	4.55	1.90	STD
1 ½ x 4	825015040F	825015040E	4.92	2.25	EXT
2 x 4	825020040F	825020040E	5.24	2.28	STD
3 x 6	825030060F	825030060E	10.70	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

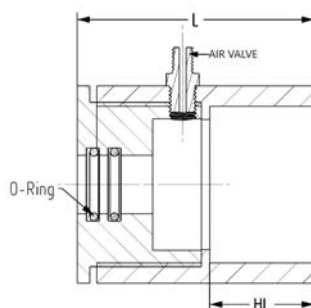
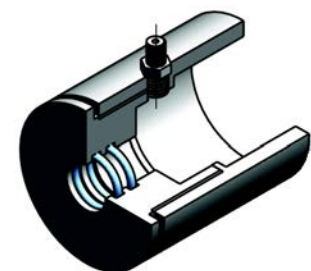
Size (inch)	FKM Code	EPDM Code	L (inch)	HL (inch)	Design
½ x 2	925005020F	925005020E	3.42	1.51	STD
¾ x 3	925007030F	925007030E	3.89	1.95	EXT
1 x 3	925010030F	925010030E	4.55	1.90	STD
1 ½ x 4	925015040F	925015040E	4.92	2.25	EXT
2 x 4	925020040F	925020040E	5.24	2.28	STD
3 x 6	925030060F	925030060E	10.70	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



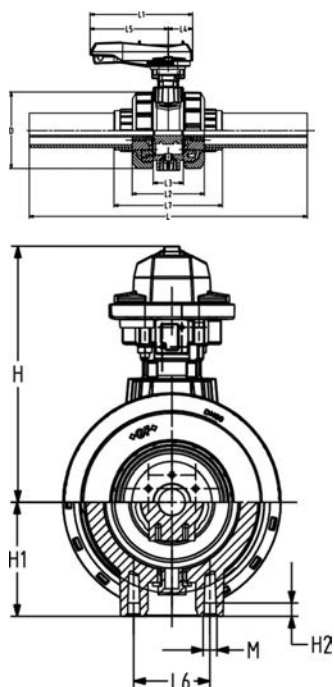
Size (inch)	FKM Code	EPDM Code	L (inch)	HL (inch)	Design
1/2 x 2	825005020FT	825005020ET	3.42	1.51	STD
3/4 x 3	825007030FT	825007030ET	3.89	1.95	EXT
1 x 3	825010030FT	825010030ET	4.55	1.90	STD
1 1/2 x 4	825015040FT	825015040ET	4.92	2.25	EXT
2 x 4	825020040FT	825020040ET	5.24	2.28	STD
3 x 6	825030060FT	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
1/2 x 2	925005020FT	925005020ET	3.42	1.51	STD
3/4 x 3	925007030FT	925007030ET	3.89	1.95	EXT
1 x 3	925010030FT	925010030ET	4.55	1.90	STD
1 1/2 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

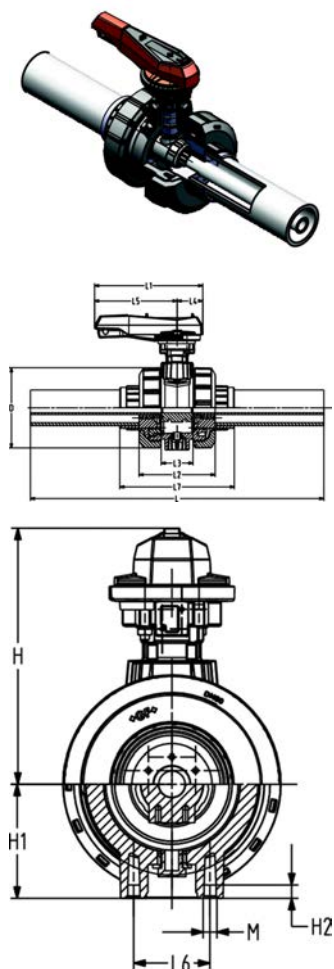


Type 546 Manual Ball Valve, Double Contained PVC x PVC Pressure Rated

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

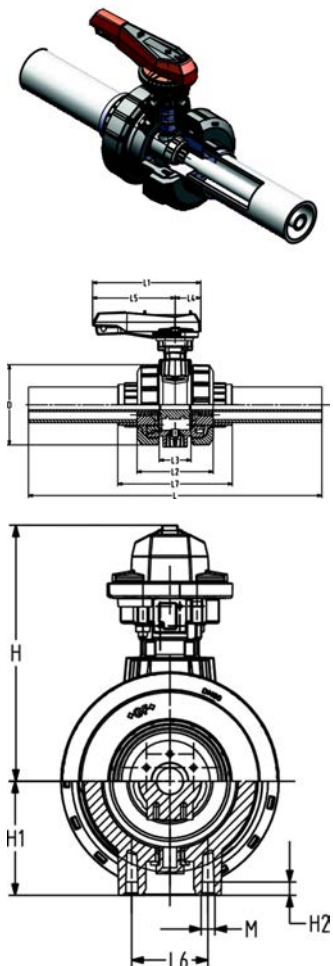
Inch (inch)	D (inch)	L (inch)	L1 (inch)	L2 (inch)	L3 (inch)	L4 (inch)	L5 (inch)	L6 (inch)	H (inch)	H1 (inch)	H2 (inch)	M (inch)
1/2 x 2	4.88	8.13	5.98	5.13	2.10	2.60	3.43	1.77	5.67	2.52	0.59	8.00
3/4 x 3	7.87	11.22	10.59	7.47	2.76	2.52	8.11	2.76	9.25	4.13	0.59	8.00
1 x 3	7.87	11.22	10.59	7.47	2.99	2.52	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

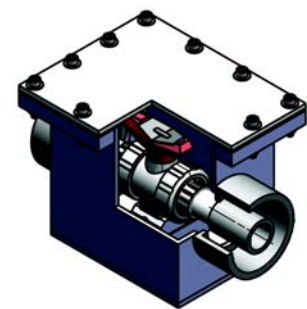
Pressure Rated

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

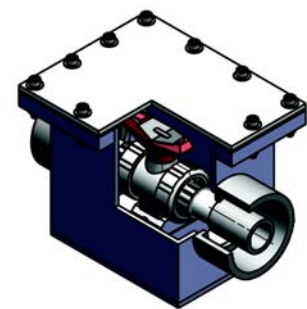
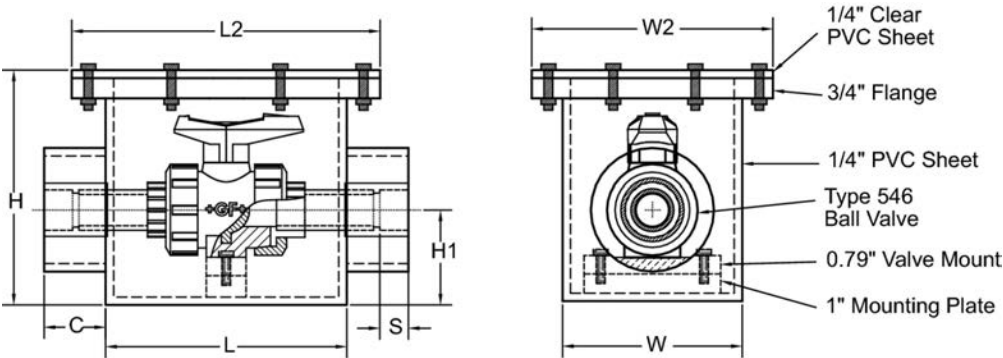


Manual Valve Box, PVC x PVC

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

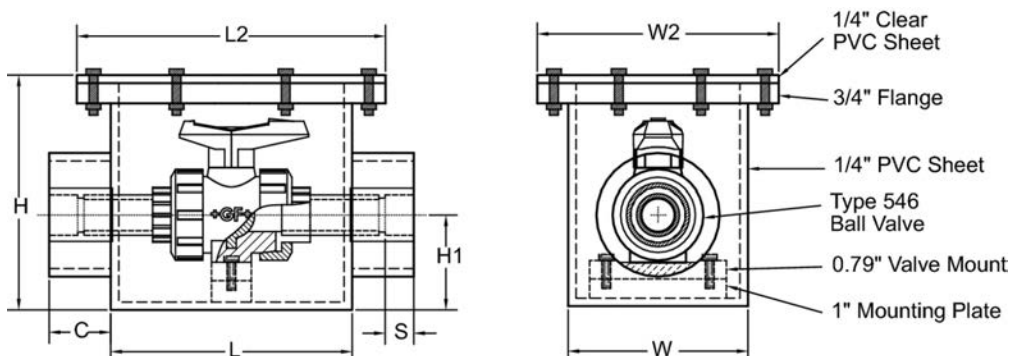
Not Pressure Rated

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

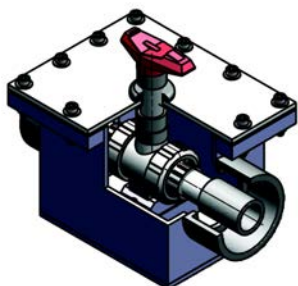
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Inch (inch)	Weight (lb)	W (inch)	L (inch)	H (inch)	H1 (inch)	C (inch)	S (inch)	W2 (inch)	L2 (inch)
1-1/2 x 4	12.32	10.00	10.00	4.05	4.05	2.56	1.38	12.00	12
2 x 4	28.82	10.00	10.00	4.56	4.56	2.56	1.50	12.00	12
3 x 6	55.38	18.00	18.00	6.17	6.17	3.37	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



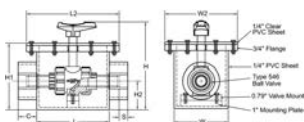
Manual Valve Box, External Handle CPVC x PVC

Not Pressure Rated

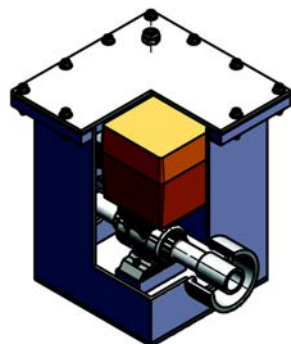


Size (inch)	FKM Code
1/2	8546005020FEH
3/4	8546007030FEH
1	8546010030FEH
1 1/2	8546015040FEH
2	8546020040FEH

EPDM Part No.	Weight (lb)	W (inch)	L (inch)	H (inch)	H1 (inch)	H2 (inch)	C (inch)	S (inch)	W2 (inch)	L2 (inch)
9546005020EEH	7.50	6.00	8.00	9.95	7.13	3.10	1.63	0.88	8.00	10.00
9546007030EEH	7.75	6.00	8.00	9.95	7.13	3.22	2.15	1.00	8.00	10.00
9546010030EEH	8.50	6.00	8.00	9.92	7.13	3.46	2.15	1.13	8.00	10.00
9546015040EEH	12.49	8.00	10.00	13.40	10.13	4.05	2.52	1.38	10.00	12.00
9546020040EEH	28.74	8.00	10.00	13.00	10.00	4.56	2.52	1.50	10.00	12.00



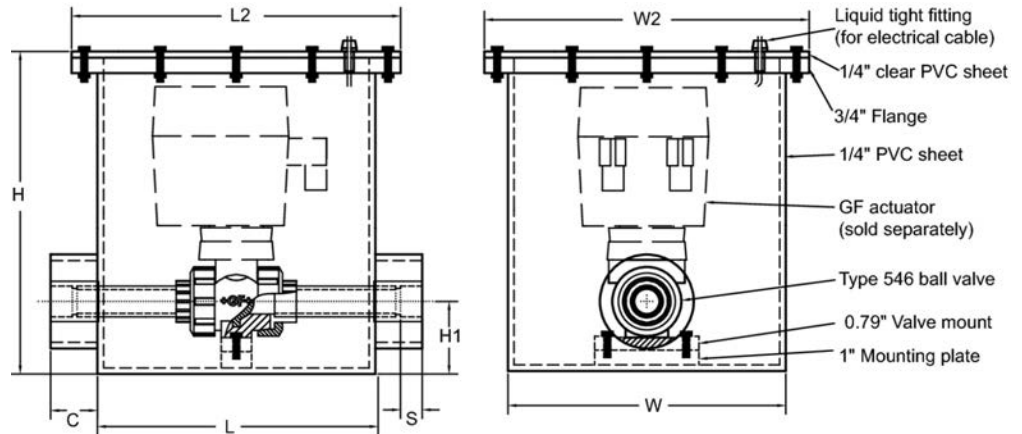
Actuated Valve Box, PVC x PVC



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

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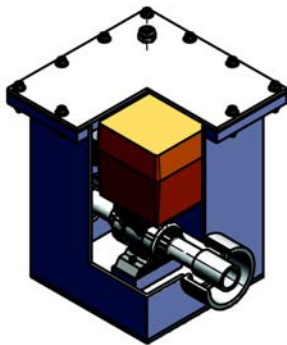
Weight (lb)	W (inch)	L (inch)	H (inch)	H1 (inch)	C (inch)	S (inch)	W2 (inch)	L2 (inch)
8.70	10.00	10.00	14.00	3.10	1.57	0.88	12.00	12.00
8.95	10.00	10.00	14.00	3.22	2.02	1.00	12.00	12.00
10.20	10.00	10.00	14.00	3.46	2.02	1.13	12.00	12.00
14.34	10.00	10.00	16.00	4.05	2.40	1.38	12.00	12.00
33.44	10.00	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

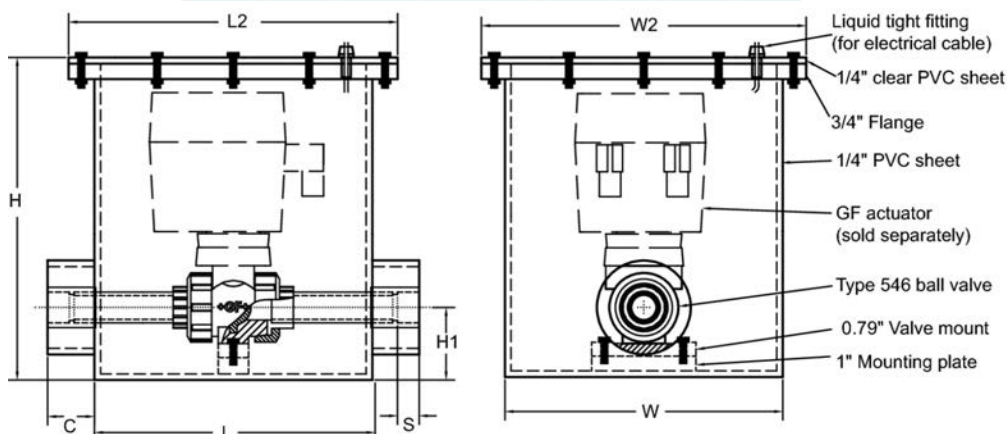


Inch (inch)	EPDM Code	FKM Code
1/2 x 2	9546005020EAV	9546005020FAV
3/4 x 3	9546007030EAV	9546007030FAV
1 x 3	9546010030EAV	9546010030FAV
1-1/2 x 4	9546015040EAV	9546015040FAV
2 x 4	9546020040EAV	9546020040FAV
3 x 6	9546030060EAV	9546030060FAV
4 x 8	9546040080EAV	9546040080FAV

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

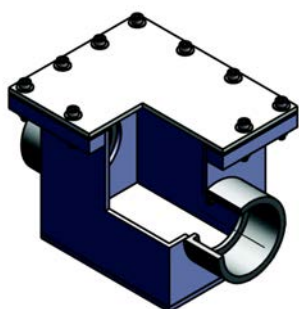
table continued on the next page

Weight (lb)	W (inch)	L (inch)	H (inch)	H1 (inch)	C (inch)	S (inch)	W2 (inch)	L2 (inch)
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

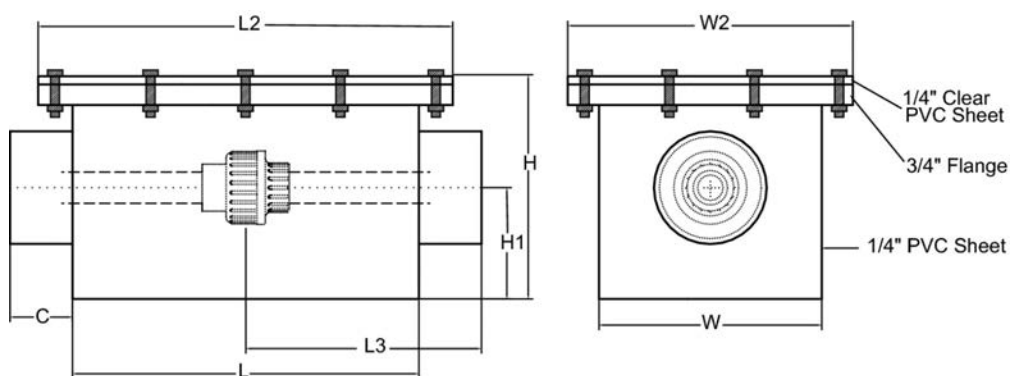


Flange/Union Box, PVC

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

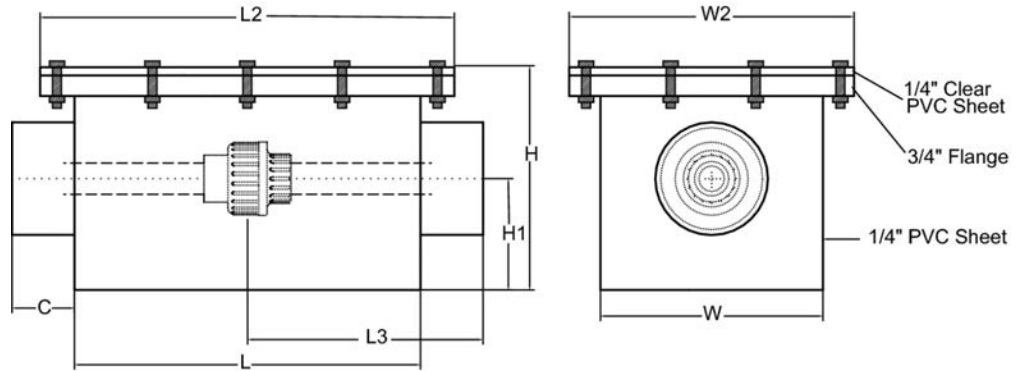




Flange/Union Box, CPVC

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 1 ½"

Dauber Size (inch)	Pipe Size (inch)	Code	SP
¾	½ - ¾	200 064 151	1
½	¾ - 1	200 064 152	1
¾	1 ¼ - 1 ½	200 064 153	1
1 ½	2 - 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

List of abbreviations

ABS	Acrylonitrile butadiene styrene	MPTFE	Modified polytetrafluoroethylene, e.g. TFM®
AL	Number of bolt holes	Ms	Brass
ANSI	American National Standards Institute	NBR	Nitrile butadiene rubber
ASTM	American Society for Testing and Materials	NPT	Taper male thread pressure tight in the thread to ANSI B 1.20.1
BC	Bolt circle	PE	Polyethylene
BCF	Bead and crevice free	PN	Nominal pressure at 20°C, water
BR	Butyl rubber	PP	Polypropylene
BS	British Standards (Institution)	PP-n	Polypropylene natural
CR	Chloroprene rubber, e.g. Neoprene®	PROGEF	GF - Material: Piping system in PP-Standard / PP-Plus / PP-H / PP-R / PP-n
CSM	Chlorosulfonated polyethylene, e.g. Hypalon®	PTFE	Polytetrafluoroethylene, e.g. Teflon®
d	Outer pipe diameter	PVC-C	Polyvinyl chloride chlorinated
DIN	German Institute for Standardization	PVC-U	Polyvinyl chloride unplasticized
DN	Nominal bore	PVDF	Polyvinylidene fluoride
DVS	German Welding Society	R	Taper male thread, pressure tight in the thread to ISO 7/DIN 2999/1
e	Wall thickness	Rc	Taper female thread, pressure tight in the thread to ISO 7/1
ecoFIT	GF - Material: Piping system in PE	Rp	Parallel female thread, pressure tight in the thread to ISO 7/DIN 999/1
ECTFE	Ethylene chlorotrifluoroethylene	s	A/F
ELGEF Plus	GF - Material: Piping system in PE (Electrofusion)	SC	Size of hexagon bolts
EPDM	Ethylene propylene diene monomer rubber	SDR	Standard Dimension Ratio
FFKM	Perfluoroelastomer	SP	Standard pack, The figure given indicate the quantity of fittings contained in a standard pack
FKM	Fluorine rubber, e.g. Viton®	St	Steel
FM	Fusion method	SYGEF	GF - Material: Piping system in PVDF / PVDF-HP / ECTFE
g	Weight in grams	Tg	Malleable Iron
G	Pipe thread, not pressure tight in the thread to ISO 228/1	Tr	Trapezoid thread
GP	Gross pack. The figure given indicates the quantity of fittings contained in a gross pack.	UP-GF	Unsaturated polyester resin glassfiber reinforced
IR	Infrared	®	Registered trade-mark
ISO	International Organization for Standardization		
JIS	Japanese Industrial Standards		
kg	Weight in kilograms		

Excellence in Flow

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