

Vinyl Piping Systems

Price List effective January 1, 2018

- Schedule 80 PVC
- Schedule 40 and 80 CPVC
- Schedule 40 PVC
- Schedule 40 and 80 Clear PVC
- Harvel Speciality Pipe
- Extruded Shapes
- Metric PVC
- Valves



Other Products Available from GF Piping Systems



Fuseal® Corrosive Waste Piping System

Pipe, Fittings, Accessories
Electrofusion
Mechanical Joint

Excellent chemical and physical properties make the Fuseal system ideal for handling corrosive chemical waste solutions DWV applications. Fuseal is suitable anywhere a mixtures of acids, bases and solvents are drained.



Signet Instrumentation

Chlorine	Dissolved Oxygen
Turbidity	Flow/Batch
pH/ORP	Conductivity/Resistivity
Pressure	Temperature
Level	

Our measurement offering will cover your needs: flow, pH, conductivity, level, temperature and various water quality parameters. Corresponding to our piping systems, most sensors are available in plastic and are therefore highly resistant to chemicals. Our plug-and-play measurement products are self-explanatory, easy to maintain and are offered with suitable installation fittings.



Actuation

With our modular set-up, valves and actuators can be combined flexibly and additional functionalities, like positioners or monitoring devices, can be added optionally. Naturally, we offer the whole range in all-plastic designs, which are capable of withstanding harsh environments. A wide range of pressure regulating valves and accessories complete our actuation portfolio.

Pipe Metric-To-Inch Conversion Chart

16 mm = 5/8"	40 mm = 1 1/4"	90 mm = 3"	225 mm = 8"	400 mm = 16"
20 mm = 1/2"	50 mm = 1 1/2"	110 mm = 4"	250 mm = 10"	450 mm = 18"
25 mm = 3/4"	63 mm = 2"	160 mm = 6"	315 mm = 12"	500 mm = 20"
32 mm = 1"	75 mm = 2 1/2"	200 mm = 8"	355 mm = 14"	

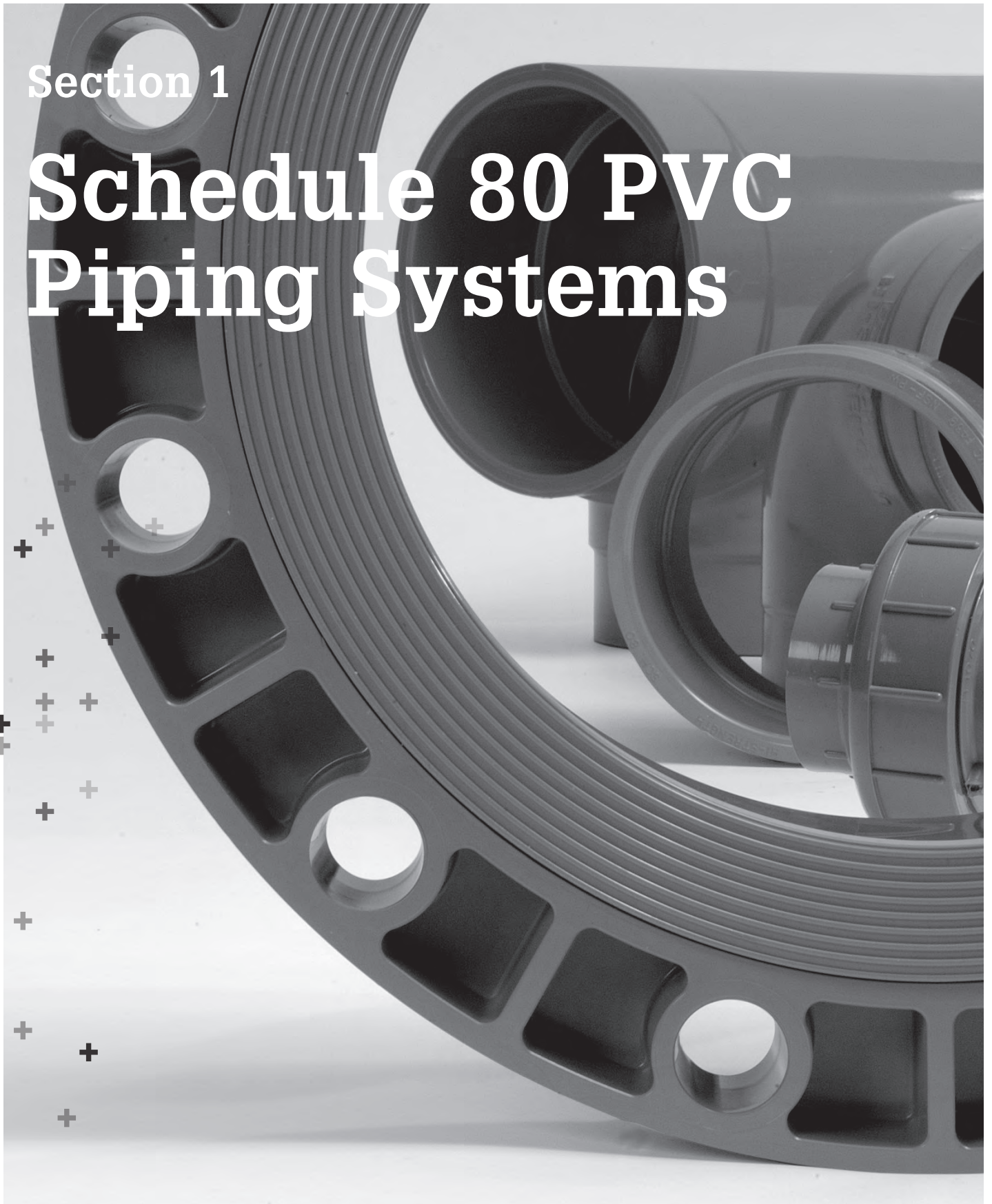
Go to www.gfpiping.com for more information!

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Section 1

Schedule 80 PVC Piping Systems



Glossary

FPT	=	Female Pipe Thread
MPT	=	Male Pipe Thread
S	=	Tapered Socket
SPG	=	Spigot End (same dimension as pipe outside diameter)
*	=	Non-Returnable / Non-cancellable
^	=	40% Restocking Fee
HS	=	High Strength Design
SL	=	Streamline Design
BUSH	=	Assembled Fitting from Molded Components
FAB	=	Fabricated Fitting

The technical information given in this publication implies no warranty of any kind and is subject to change without notice. Please consult our Terms and Conditions of Sale.

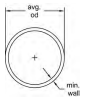
For complete technical information, please consult the GF Harvel Engineering and Installation Guide available online at www.gfpiping.com/resource.html [see "Technical Docs"] or by calling (800) 854-4090.

For more information about any of our product lines, please call (800) 854-4090.



Harvel® Industrial PVC Pressure Pipe

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Harvel® Industrial PLUS PVC Pressure Pipe

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Schedule 80 PVC Pressure Fittings

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Schedule 80 PVC Low Pressure Fittings

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Schedule 80 PVC DWV Fittings

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Schedule 80 PVC Metal Transition Fittings

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Schedule 80 PVC Expansion Joints

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Specifications, Standards and Tolerances

Specifications and Standards

NSF/ANSI Standard 14

NSF/ANSI Standard 61

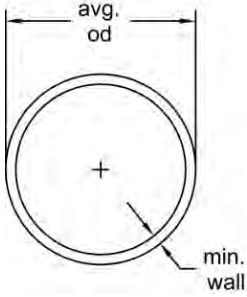
ASTM D 1784	:	Material PVC Type I, Grade I Gray (cell classification 12454)
ASTM D 1785	:	PVC Schedule 80 Pipe
ASTM D 2467	:	PVC Schedule 80 Socket & Threaded Fittings
ASTM D 2464	:	PVC Schedule 80 Threaded Fittings
ASTM F 1498	:	PVC Schedule 80 Taper Threads
ASTM D 2672	:	PVC Schedule 80 Tapered Sockets for Bell End Pipe
ASTM F 1970	:	PVC Schedule 80 Unions
ANSI B16.5	:	Outside Diameter & Flange Bolt Hole Patterns
ANSI B1.20.1	:	PVC Schedule 80 NPT Threads
CSA B137.3	:	PVC Schedule 80 Pipe

Molded Dimension Tolerances

A	Piston Position; Expansion Joints : ± 0.03
D	Outside Diameter : ± 0.06
G, G1	Intersections of centerlines to bottom of socket; 90° Ells, Tees : up to 4" ± 0.03 ; 6" and above ± 0.06
GJ, GN	Intersections of centerlines to bottom of socket; 45° Wyes : up to 4" ± 0.03 ; 6" and above ± 0.06
H, HJ, HN	Intersections of centerlines to face of fitting; 90° Ells, 45° Ells, Tees, 45° Wyes : up to 4" ± 0.03 ; 6" and above ± 0.06
HL	Socket Bottom to Face of Fitting : up to 4" ± 0.03 ; 6" and above ± 0.06
J	Intersections of centerlines to bottom of socket; 45° & 30° Ells : up to 4" ± 0.03 ; 6" and above ± 0.06
L	Overall Length of fitting : ± 0.06
N	Socket Bottom to Socket Bottom; Couplings, Unions : ± 0.06
N1	Socket Bottom to Face of Flange : ± 0.06
R	Thickness on Plugs, Flanges : ± 0.03
T, T1	Effective Thread Length : Reference Only
W	Height of Cap : ± 0.06

Harvel® Industrial PVC Pressure Pipe

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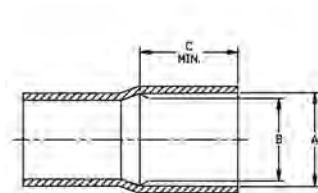
Plain End Pipe - 20 ft lengths

- Refer to Industrial PLUS for sizes 1/8", 1/4", 3/8", 3-1/2", 5", 14"-24"
- Max Water Pressure at 73°F (22.7°C) with solvent-cemented joints
- Meets NSF[®]-pw-G
- Non - CSA Approved

Size (inch)	P/L	Plain End Part No.	USD
1/2	H18	*H0800050PG2000	2.41
3/4	H18	*H0800075PG2000	3.19
1	H18	*H0800100PG2000	4.81
1 1/4	H18	*H0800125PG2000	6.65
1 1/2	H18	*H0800150PG2000	7.52
2	H18	*H0800200PG2000	10.40
2 1/2	H18	*H0800250PG2000	17.47
3	H18	*H0800300PG2000	21.43
4	H18	*H0800400PG2000	30.83
6	H18	*H0800600PG2000	59.47
8	H18	*H0800800PG2000	89.47
10	H18	*H0801000PG2000	132.70
12	H18	*H0801200PG2000	181.57

Lift Qty. (20ft Lgths) (ft)	Average O.D. (inch)	Min. Wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
5700	0.840	0.147	0.202	850
5260	1.050	0.154	0.273	690
4280	1.315	0.179	0.402	630
2360	1.660	0.191	0.554	520
2060	1.900	0.200	0.673	470
1660	2.375	0.218	0.932	400
1080	2.875	0.276	1.419	420
840	3.500	0.300	1.903	370
520	4.500	0.337	2.782	320
340	6.625	0.432	5.313	280
220	8.625	0.500	8.058	250
80	10.750	0.593	11.956	230
60	12.750	0.687	16.437	230

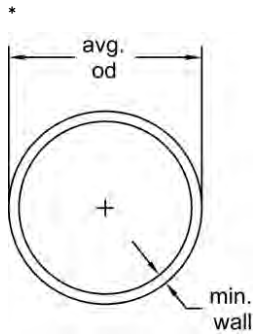
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Belled End Pipe - 20 ft lengths

Size (inch)	P/L	Belled End Part No.	USD	A-Socket Entrance (Belled Pipe)	B-Socket Bottom (Belled Pipe)	C-Min. (Belled Pipe)
1/2	H18	*H0800050PG200B	2.54	0.848±0.004	0.836±0.004	1.000
3/4	H18	*H0800075PG200B	3.37	1.058±0.004	1.046±0.004	1.250
1	H18	*H0800100PG200B	5.06	1.325±0.005	1.310±0.005	1.500
1 1/4	H18	*H0800125PG200B	7.00	1.678±0.002	1.653±0.005	1.870
1 1/2	H18	*H0800150PG200B	7.91	1.910±0.004	1.884±0.004	2.000
2	H18	*H0800200PG200B	10.94	2.387±0.006	2.369±0.006	2.250
2 1/2	H18	*H0800250PG200B	18.39	2.889±0.007	2.868±0.007	2.500
3	H18	*H0800300PG200B	22.56	3.516±0.008	3.492±0.008	3.250
4	H18	*H0800400PG200B	32.45	4.518±0.009	4.491±0.009	4.000
6	H18	*H0800600PG200B	62.60	6.647±0.011	6.614±0.011	6.000
8	H18	*H0800800PG200B	94.19	8.655±0.015	8.610±0.015	6.000
10	H18	*H0801000PG200B	139.69	10.776±0.015	10.737±0.015	8.000
12	H18	*H0801200PG200B	191.12	12.778±0.015	12.736±0.015	8.500

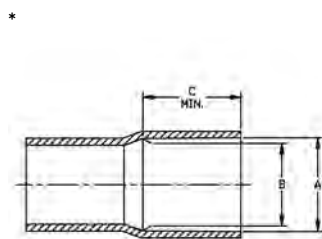
Harvel® Industrial PLUS PVC Pressure Pipe



Plain End Pipe - 20 ft lengths

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

Size (inch)	P/L	Plain End Part No.	USD	Lift Qty. (20ft Lgths) (ft)	Average O.D. (inch)	Min. Wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
¼	H50	* H0800013PG2000	2.98	5700	0.405	0.095	0.058	1230
¼	H50	* H0800025PG2000	4.99	5700	0.540	0.119	0.100	1130
⅜	H50	* H0800038PG2000	7.39	5700	0.675	0.126	0.138	920
½	H50	* HX800050PG2000	2.68	5700	0.840	0.147	0.202	850
¾	H50	* HX800075PG2000	3.54	5260	1.050	0.154	0.273	690
1	H50	* HX800100PG2000	5.34	4280	1.315	0.179	0.402	630
1 ¼	H50	* HX800125PG2000	7.39	2360	1.660	0.191	0.554	520
1 ½	H50	* HX800150PG2000	8.35	2060	1.900	0.200	0.673	470
2	H50	* HX800200PG2000	11.55	1660	2.375	0.218	0.932	400
2 ½	H50	* HX800250PG2000	19.42	1080	0.287	0.276	1.419	420
3	H50	* HX800300PG2000	23.82	840	3.500	0.300	1.903	370
3 ½	H50	* H0800350PG2000	38.21	680	4.000	0.318	2.322	350
4	H50	* HX800400PG2000	34.25	520	4.500	0.337	2.782	320
5	H50	* H0800500PG2000	48.65	400	5.563	0.375	3.867	290
6	H50	* HX800600PG2000	66.08	340	6.625	0.432	5.313	280
8	H50	* HX800800PG2000	99.41	220	8.625	0.500	8.058	250
10	H50	* HX801000PG2000	147.44	80	10.750	0.593	11.956	230
12	H50	* HX801200PG2000	201.74	60	12.750	0.687	16.437	230
14	H50	* H0801400PG2000	260.55	60	14.000	0.750	19.790	220
16	H50	* H0801600PG2000	414.03	60	16.000	0.843	25.430	220
18	H50	* H0801800PG2000	506.65	40	18.000	0.937	31.830	220
20	H50	* H0802000PG2000	554.61	40	20.000	1.031	40.091	220
24	H50	* H0802400PG2000	821.57	40	24.000	1.218	56.882	210

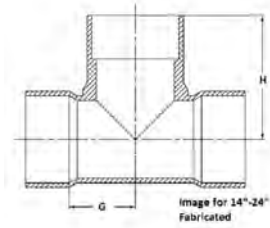
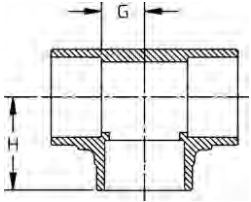


Belled End Pipe - 20 ft lengths

Size (inch)	P/L	Belled End Part No.	USD	A-Socket Entrance (Belled Pipe)	B-Socket Bottom (Belled Pipe)	C-Min. (Belled Pipe)
½	H50	* HX800050PG200B	2.82	0.848±0.004	0.836±0.004	1.000
¾	H50	* HX800075PG200B	3.74	1.058±0.004	1.046±0.004	1.250
1	H50	* HX800100PG200B	5.62	1.325±0.005	1.310±0.005	1.500
1 ¼	H50	* HX800125PG200B	7.78	1.670±0.005	1.655±0.005	1.750
1 ½	H50	* HX800150PG200B	8.79	1.912±0.006	1.894±0.006	2.000
2	H50	* HX800200PG200B	12.16	2.387±0.006	2.363±0.006	2.250
2 ½	H50	* HX800250PG200B	20.45	2.889±0.007	2.861±0.007	2.500
3	H50	* HX800300PG200B	25.05	3.516±0.008	3.484±0.008	3.250
3 ½	H50	* H0800350PG200B	40.22	4.016±0.008	3.984±0.008	3.500
4	H50	* HX800400PG200B	36.05	4.518±0.009	4.482±0.009	4.000
5	H50	* H0800500PG200B	51.20	5.583±0.010	5.543±0.010	4.000
6	H50	* HX800600PG200B	69.55	6.647±0.011	6.603±0.011	6.000
8	H50	* HX800800PG200B	104.65	8.655±0.015	8.598±0.015	6.000
10	H50	* HX801000PG200B	155.20	10.776±0.015	10.722±0.015	7.500
12	H50	* HX801200PG200B	212.36	12.778±0.015	12.721±0.015	8.500
14	H50	* H0801400PG200B	274.16	14.035±0.015	13.985±0.015	9.000
16	H50	* H0801600PG200B	435.81	16.045±0.015	15.980±0.015	10.000
18	H50	* H0801800PG200B	527.78	18.055±0.020	17.980±0.020	12.000
20	H50	* H0802000PG200B	577.75	20.065±0.025	19.980±0.025	12.000
24	H50	* H0802400PG200B	855.80	24.075±0.030	23.970±0.030	12.000

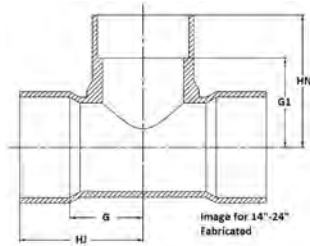
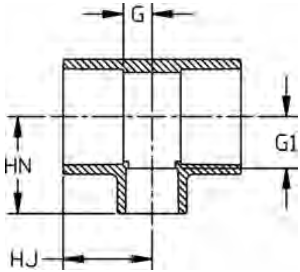
Schedule 80 PVC Pressure Fittings

Tee (S x S x S)



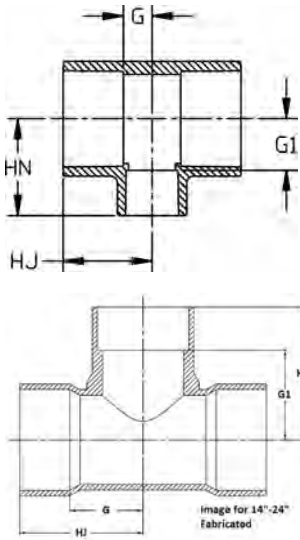
Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	G (inch)	Design
¼	608	* 801-002	10.94	50	0.95	0.27	HS
⅜	608	* 801-003	10.94	50	1.16	0.38	HS
½	608	801-005	10.33	25	1.41	0.51	SL
¾	608	801-007	10.82	25	1.60	0.58	SL
1	608	801-010	13.54	20	1.85	0.71	SL
1 ¼	608	801-012	37.20	10	2.17	0.91	SL
1 ½	608	801-015	37.20	10	2.43	1.04	SL
2	608	801-020	46.51	10	2.81	1.30	SL
2 ½	608	801-025	50.57	5	3.31	1.55	SL
3	608	801-030	63.20	5	3.71	1.81	SL
4	608	801-040	73.23	5	4.60	2.33	SL
5	H02	* 801-050S	178.62	1	5.78	3.16	SL
6	608	801-060	250.04	2	6.53	3.51	SL
8	608	801-080	579.92	1	8.66	4.58	SL
10	602	801-100	1,915.92	1	10.79	5.78	SL
12	602	801-120	2,705.81	1	12.96	6.94	SL
14	A33	* 801-140N	2,873.63	1	19.50	10.88	FAB
16	A33	* 801-160N	3,736.58	1	22.75	12.13	FAB
18	A33	* 801-180N	4,451.11	1	26.00	13.38	FAB
20	A33	* 801-200N	5,738.56	1	28.25	14.63	FAB
24	A33	* 801-240N	7,626.73	1	34.50	17.13	FAB

Reducing Tee (S x S x S)



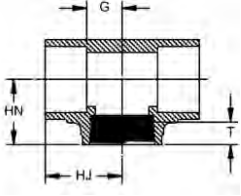
Size (inch)	P/L	Part No.	USD	Pack Qty	HJ (inch)	HN (inch)	G (inch)	G1 (inch)	Design
¾ x ½	608	801-101	7.92	25	1.62	1.62	0.60	0.72	SL
1 x ½	608	801-130	11.44	25	1.87	1.64	0.72	0.74	SL
1 x ¾	608	801-131	11.44	20	1.86	1.89	0.72	0.75	SL
1 ¼ x ½	608	* 801-166FB	31.56	20	1.99	2.35	0.73	1.47	BUSH
1 ¼ x ¾	608	* 801-167FB	24.83	20	1.99	2.35	0.73	1.33	BUSH
1 ½ x 1	608	801-168	24.83	20	2.01	2.05	0.73	0.91	SL
1 ½ x ½	608	801-209	24.83	5	1.92	1.91	0.53	1.03	SL
1 ½ x ¾	608	801-210	24.83	5	1.99	2.07	0.60	1.05	SL
1 ½ x 1	608	801-211	24.83	5	2.12	2.17	0.72	1.03	SL
1 ½ x 1 ¼	608	* 801-212FB	24.83	5	2.44	2.74	1.04	1.47	BUSH
2 x ½	608	801-247	31.46	5	1.99	2.16	0.54	1.28	SL
2 x ¾	608	801-248	31.46	5	2.22	2.31	0.60	1.30	SL
2 x 1	608	801-249	31.46	5	2.24	2.42	0.72	1.27	SL
2 x 1 ¼	608	* 801-250FB	47.97	5	2.81	3.11	1.30	1.84	BUSH
2 x 1 ½	608	801-251	31.46	5	2.54	2.66	1.03	1.27	SL
2 ½ x ½	608	* 801-287FB	48.09	5	3.05	3.35	1.28	2.44	BUSH
2 ½ x ¾	608	* 801-288FB	48.09	5	3.05	3.35	1.28	2.33	BUSH
2 ½ x 1	608	* 801-289FB	39.00	5	3.05	3.36	1.28	2.22	BUSH
2 ½ x 1 ¼	608	* 801-290FB	41.05	5	3.05	3.34	1.28	2.07	BUSH
2 ½ x 1 ½	608	* 801-291FB	41.05	5	3.05	3.35	1.28	1.94	BUSH
2 ½ x 2	608	801-292	41.05	5	3.05	3.05	1.28	1.54	SL
3 x ½	608	* 801-333FB	57.67	5	3.20	3.68	1.30	2.77	BUSH
3 x ¾	608	* 801-334FB	65.08	5	3.20	3.68	1.30	2.66	BUSH
3 x 1	608	* 801-335FB	54.79	5	3.20	3.69	1.30	2.55	BUSH
3 x 1 ¼	608	* 801-336FB	57.67	5	3.20	3.67	1.30	2.40	BUSH
3 x 1 ½	608	* 801-337FB	57.67	5	3.20	3.68	1.30	2.27	BUSH
3 x 2	608	801-338	57.67	5	3.20	3.39	1.30	1.87	SL
3 x 2 ½	608	* 801-339FB	57.67	5	3.73	4.07	1.81	2.17	BUSH
4 x ½	608	* 801-415FB	114.07	5	3.52	4.19	1.27	3.28	BUSH
4 x ¾	608	* 801-416FB	114.07	5	3.52	4.19	1.27	3.17	BUSH
4 x 1	608	801-417	114.07	5	2.99	3.49	2.99	3.49	SL
4 x 1 ¼	608	* 801-418FB	114.07	5	3.52	4.18	1.27	2.91	BUSH
4 x 1 ½	608	* 801-419FB	93.20	5	3.52	4.19	1.27	2.78	BUSH
4 x 2	608	801-420	93.20	5	3.54	3.87	1.27	2.37	SL
4 x 2 ½	608	* 801-421FB	167.78	5	4.14	4.62	1.85	2.73	BUSH
4 x 3	608	801-422	93.20	5	4.13	4.26	1.85	2.35	SL
5 x ½	H02	* 801-484S	402.87	1	5.81	6.91	3.16	5.53	SL
5 x 3	H02	* 801-488S	350.54	1	5.81	6.50	3.16	4.63	SL
5 x 4	H02	* 801-490S	278.05	1	5.81	6.16	3.16	3.91	SL
6 x ½	608	* 801-523FB	242.38	2	6.56	7.42	3.56	6.52	BUSH
6 x ¾	608	* 801-524FB	242.38	2	6.56	7.43	3.49	6.41	BUSH
6 x 1	608	* 801-525FB	186.23	2	6.56	7.44	3.49	6.29	BUSH
6 x 1 ¼	608	* 801-526FB	242.38	2	6.56	7.42	3.49	6.15	BUSH
6 x 1 ½	608	* 801-527FB	242.38	2	6.56	7.42	3.49	6.02	BUSH
6 x 2	608	801-528	Call	2	4.45	5.25	1.43	3.74	SL
6 x 2 ½	608	* 801-529FB	242.18	2	6.56	7.52	3.49	5.62	BUSH
6 x 3	608	* 801-530FB	186.23	2	6.56	7.21	3.49	5.25	BUSH
6 x 4	608	801-532	250.04	2	6.57	6.80	3.49	4.47	HS
6 x 5	H04	* 801-533FS	526.33	1	9.00	9.50	5.75	6.50	FAB
8 x 4	608	801-582	677.03	2	8.41	8.53	4.29	6.30	SL
8 x 5	H04	* 801-583FS	673.76	1	10.50	10.44	6.25	7.44	FAB
8 x 6	608	801-585	579.92	1	7.65	7.54	3.55	4.63	SL
10 x 1 ½	A33	801-618N	Call	1	10.75	12.45	5.75	11.04	FAB
10 x 2	A33	* 801-619N	697.62	1	10.75	11.50	5.75	9.50	FAB
10 x 3	A33	* 801-621N	748.19	1	10.75	11.50	5.25	9.50	FAB
10 x 4	A33	* 801-623N	775.11	1	10.75	11.50	5.75	9.50	FAB
10 x 6	602	* 801-626FB	1,686.02	1	10.83	11.43	5.78	8.33	BUSH
10 x 6	A33	* 801-626N	876.60	1	11.88	12.50	6.88	9.50	FAB
10 x 8	602	* 801-628FB	1,984.22	1	10.83	11.46	5.78	7.36	BUSH
10 x 8	A33	* 801-628N	983.41	1	13.00	13.50	8.00	9.50	FAB
12 x 2	A33	* 801-659N	902.09	1	12.00	12.75	6.00	10.75	FAB

table continued on the next page



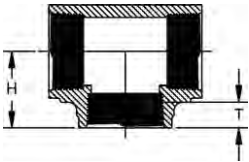
Size (inch)	P/L	Part No.	USD	Pack Qty	HJ (inch)	HN (inch)	G (inch)	G1 (inch)	Design
12 x 3	A33	* 801-661N	971.74	1	12.00	12.75	6.00	10.75	FAB
12 x 4	A33	* 801-663N	1,030.83	1	12.00	12.75	6.00	10.75	FAB
12 x 6	A33	* 801-666N	1,138.24	1	13.13	13.75	7.13	10.75	FAB
12 x 8	602	* 801-668FB	2,508.29	1	12.99	13.67	6.94	9.58	BUSH
12 x 8	A33	* 801-668N	1,221.18	1	14.13	14.75	8.13	10.75	FAB
12 x 10	602	* 801-670FB	3,358.95	1	12.99	13.68	6.94	8.57	BUSH
12 x 10	A33	* 801-670N	1,356.99	1	15.13	15.75	9.13	10.75	FAB
14 x 2	A33	* 801-692N	1,130.32	1	13.13	13.50	6.13	11.50	FAB
14 x 3	A33	* 801-694N	1,387.71	1	12.63	13.50	6.13	11.50	FAB
14 x 4	A33	* 801-696N	1,529.26	1	13.13	13.50	6.13	11.50	FAB
14 x 6	A33	* 801-698N	1,650.83	1	14.25	14.50	7.25	11.50	FAB
14 x 8	A33	* 801-700N	1,735.95	1	15.25	15.50	8.25	11.50	FAB
14 x 10	A33	* 801-702N	1,854.57	1	16.25	16.50	9.25	11.50	FAB
14 x 12	A33	* 801-704N	1,958.32	1	17.25	18.50	10.25	12.50	FAB
16 x 2	A33	* 801-726N	1,449.45	1	14.38	14.75	6.38	12.75	FAB
16 x 3	A33	* 801-728N	1,563.78	1	14.38	14.75	6.38	12.75	FAB
16 x 4	A33	* 801-730N	1,710.83	1	14.38	14.75	6.38	12.75	FAB
16 x 6	A33	* 801-732N	1,820.05	1	15.50	15.75	7.50	12.75	FAB
16 x 8	A33	* 801-734N	2,021.54	1	16.50	16.75	8.50	12.75	FAB
16 x 10	A33	* 801-736N	2,191.37	1	17.50	17.75	9.50	12.75	FAB
16 x 12	A33	* 801-738N	2,414.95	1	18.50	19.75	10.50	13.75	FAB
16 x 14	A33	* 801-740N	2,784.64	1	19.13	20.75	11.13	13.75	FAB
18 x 4	A33	* 801-784N	3,115.59	1	15.63	16.00	6.63	14.00	FAB
18 x 6	A33	* 801-786N	3,374.49	1	16.75	17.00	7.75	14.00	FAB
18 x 8	A33	* 801-788N	3,518.98	1	17.75	18.00	8.75	14.00	FAB
18 x 10	A33	* 801-790N	3,769.91	1	18.75	19.00	9.75	14.00	FAB
18 x 12	A33	* 801-792N	3,984.02	1	19.75	21.00	10.75	15.00	FAB
18 x 14	A33	* 801-794N	4,234.03	1	20.38	22.00	11.38	15.00	FAB
18 x 16	A33	* 801-796N	4,288.13	1	21.38	24.00	12.38	16.00	FAB
20 x 4	A33	* 801-814N	3,821.09	1	16.88	17.25	6.88	15.25	FAB
20 x 6	A33	* 801-816N	4,034.66	1	18.00	18.25	8.00	15.25	FAB
20 x 8	A33	* 801-818N	4,158.67	1	19.00	19.25	9.00	15.25	FAB
20 x 10	A33	* 801-820N	4,330.54	1	20.00	20.25	10.00	15.25	FAB
20 x 12	A33	* 801-822N	4,643.44	1	21.00	22.25	11.00	16.25	FAB
20 x 14	A33	* 801-824N	4,979.46	1	21.63	23.25	11.63	16.25	FAB
20 x 16	A33	* 801-826N	5,337.07	1	22.63	25.25	12.63	17.25	FAB
20 x 18	A33	* 801-828N	5,609.69	1	23.63	27.25	13.63	18.25	FAB
24 x 4	A33	* 801-904N	4,757.75	1	19.38	19.50	7.38	17.50	FAB
24 x 6	A33	* 801-906N	4,939.96	1	20.50	20.50	8.50	17.50	FAB
24 x 8	A33	* 801-908N	5,068.42	1	21.50	21.50	9.50	17.50	FAB
24 x 10	A33	* 801-910N	5,380.33	1	22.50	22.50	10.50	17.50	FAB
24 x 12	A33	* 801-912N	5,578.87	1	23.50	24.50	11.50	18.50	FAB
24 x 14	A33	* 801-914N	5,809.07	1	24.13	25.50	12.13	18.50	FAB
24 x 16	A33	* 801-916N	6,077.06	1	25.13	27.50	13.13	19.50	FAB
24 x 18	A33	* 801-918N	7,350.55	1	26.13	30.50	14.13	20.50	FAB
24 x 20	A33	* 801-920N	7,490.18	1	27.13	32.50	15.13	20.50	FAB
			Call						

Tee (S x S x FPT)



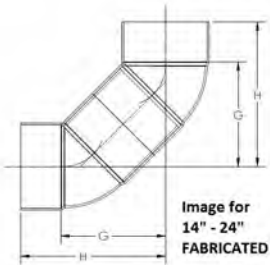
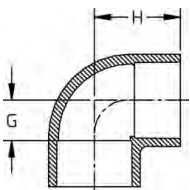
Size (inch)	P/L	Part No.	USD	Pack Qty	HJ (inch)	HN (inch)	G (inch)	T (inch)	Design
1/2	608	802-005	16.34	25	1.41	1.30	0.53	0.81	HS
3/4	608	802-007	21.13	25	1.60	1.37	0.60	0.71	HS
1	608	802-010	24.73	15	1.83	1.73	0.69	0.99	HS
1 1/2	608	802-015	31.06	5	2.41	2.08	1.02	1.04	HS
2	608	802-020	38.31	5	2.79	2.37	1.29	1.08	HS

Tee (FPT x FPT x FPT)



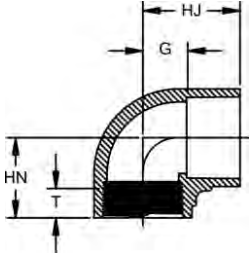
Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	T (inch)	Design
1/4	608	^ 805-002	12.62	50	0.94	0.59	HS
3/8	608	^ 805-003	12.62	50	1.01	0.60	HS
1/2	608	^ 805-005	11.94	25	1.26	0.76	HS
3/4	608	^ 805-007	13.28	25	1.36	0.72	HS
1	608	^ 805-010	29.33	15	1.79	0.99	HS
1 1/4	608	^ 805-012	31.09	10	1.93	1.01	HS
1 1/2	608	^ 805-015	37.69	5	2.08	1.03	HS
2	608	^ 805-020	40.52	5	2.39	1.06	HS
2 1/2	608	^ 805-025	147.54	5	2.87	1.35	HS
3	608	^ 805-030	154.08	5	3.52	1.65	HS
4	608	^ 805-040	250.41	5	4.07	1.72	HS

90° Ell (S x S)



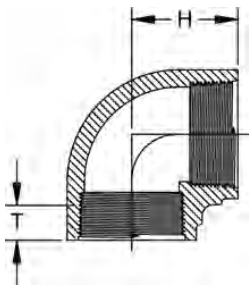
Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	G (inch)	Design
1/4	608	* 806-002	3.88	50	0.96	0.35	HS
3/8	608	* 806-003	3.88	50	1.15	0.39	HS
1/2	608	806-005	3.66	25	1.41	0.51	SL
3/4	608	806-007	4.67	25	1.60	0.57	SL
1	608	806-010	7.54	10	1.83	0.68	SL
1 1/4	608	806-012	10.09	10	2.18	0.90	SL
1 1/2	608	806-015	10.81	10	2.43	1.04	SL
2	608	806-020	13.06	20	2.80	1.27	SL
2 1/2	608	806-025	30.57	5	3.33	1.53	SL
3	608	806-030	34.36	5	3.73	1.81	SL
4	608	806-040	52.25	5	4.63	2.32	SL
5	H02	* 806-050S	133.97	1	5.75	3.00	SL
6	608	806-060	148.68	2	6.56	3.53	SL
8	608	806-080	409.82	1	8.68	4.55	SL
10	602	806-100	1,834.08	1	10.79	5.77	SL
12	602	806-120	2,390.86	1	12.92	6.87	SL
14	A33	* 806-140N	1,526.15	1	26.00	19.00	FAB
16	A33	* 806-160N	1,898.04	1	29.00	21.75	FAB
18	A33	* 806-180N	2,712.55	1	33.50	24.50	FAB
20	A33	* 806-200N	3,239.37	1	37.25	27.25	FAB
24	A33	* 806-240N	4,974.45	1	44.75	31.00	FAB

90° Ell (S x FPT)



Size (inch)	P/L	Part No.	USD	Pack Qty	HJ (inch)	HN (inch)	G (inch)	T (inch)	Design
½	608	807-005	14.40	25	1.40	1.31	0.50	0.81	HS
¾	608	807-007	16.94	25	1.59	1.36	0.58	0.72	HS
1	608	807-010	18.33	10	1.81	1.70	0.67	1.00	HS
1 ¼	608	807-012	21.13	10	2.15	1.92	0.90	1.03	HS
1 ½	608	807-015	25.21	10	2.39	2.05	1.01	1.05	HS
2	608	807-020	32.65	5	2.77	2.36	1.24	1.09	HS
3	608	807-030	77.99	5	3.73	3.47	1.83	1.66	HS

90° Ell (FPT x FPT)



Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	T (inch)	Design
¼	608	* 808-002	9.61	50	0.94	0.61	HS
¾	608	* 808-003	9.61	50	1.00	0.63	HS
½	608	^ 808-005	8.47	25	1.27	0.78	HS
¾	608	^ 808-007	10.56	25	1.36	0.72	HS
1	608	^ 808-010	13.28	10	1.71	1.00	HS
1 ¼	608	^ 808-012	14.32	10	1.92	1.01	HS
1 ½	608	^ 808-015	20.29	10	2.08	1.06	HS
2	608	^ 808-020	22.87	5	2.36	1.08	HS
2 ½	608	^ 808-025	89.05	5	3.36	1.51	HS
3	608	^ 808-030	143.60	5	3.53	1.63	HS
4	608	^ 808-040	252.67	5	4.17	1.75	HS

45° Ell (S x S)

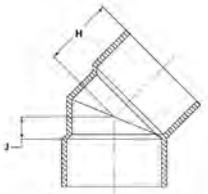
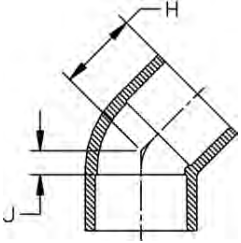
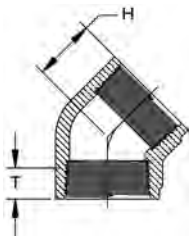


Image for 14"-24"
Fabricated

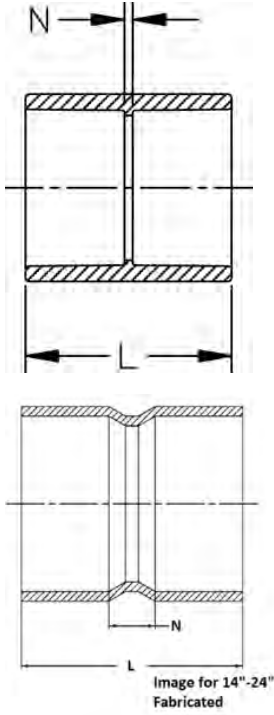
Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	J (inch)	Design
¼	608	* 817-002	13.88	50	0.81	0.18	HS
⅜	608	* 817-003	13.88	50	0.94	0.19	HS
½	608	817-005	6.89	25	1.22	0.30	SL
¾	608	817-007	10.54	20	1.29	0.28	SL
1	608	817-010	15.79	25	1.48	0.32	SL
1 ¼	608	817-012	20.12	15	1.78	0.47	SL
1 ½	608	817-015	23.78	10	1.88	0.45	SL
2	608	817-020	30.83	5	2.16	0.60	SL
2 ½	608	817-025	64.73	5	2.56	0.79	SL
3	608	817-030	78.79	5	2.67	0.77	SL
4	608	817-040	141.88	5	3.31	1.04	SL
5	H02	* 817-050S	169.75	1	4.00	1.38	SL
6	608	817-060	178.68	2	4.86	1.77	SL
8	608	817-080	387.40	2	6.15	2.07	SL
10	602	817-100	1,219.66	1	7.51	2.46	SL
12	602	817-120	1,573.28	1	9.00	2.96	SL
14	A33	* 817-140N	1,180.36	1	10.25	3.50	FAB
16	A33	* 817-160N	1,445.04	1	11.75	3.75	FAB
18	A33	* 817-180N	1,758.86	1	13.25	4.25	FAB
20	A33	* 817-200N	2,415.88	1	14.75	4.75	FAB
24	A33	* 817-240N	2,992.44	1	17.75	5.75	FAB

45° Ell (FPT x FPT)



Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	T (inch)	Design
¼	608	* 819-002	15.76	50	0.69	0.59	HS
⅜	608	* 819-003	15.76	50	0.86	0.68	HS
½	608	^ 819-005	13.61	25	1.02	0.76	SL
¾	608	^ 819-007	14.62	20	1.14	0.81	SL
1	608	^ 819-010	18.35	25	1.33	0.97	SL
1 ¼	608	^ 819-012	27.99	15	1.42	1.01	SL
1 ½	608	^ 819-015	35.19	10	1.47	1.07	SL
2	608	^ 819-020	52.17	5	1.74	2.37	SL
3	608	^ 819-030	166.03	5	2.43	1.66	SL
4	608	^ 819-040	238.24	5	2.78	1.76	SL

Coupling (S x S)



Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	N (inch)	Design
¼	H02	* 829-002S	11.20	25	1.38	0.06	SL
⅜	608	* 829-003	11.20	50	1.65	0.11	HS
½	608	829-005	6.62	25	1.93	0.12	SL
¾	608	829-007	8.97	20	2.18	0.12	SL
1	608	829-010	9.22	25	2.41	0.12	SL
1 ¼	608	829-012	14.04	10	2.67	0.13	SL
1 ½	608	829-015	15.14	10	2.94	0.15	SL
2	608	829-020	16.25	20	3.18	0.13	SL
2 ½	608	829-025	40.01	5	3.77	0.19	SL
3	608	829-030	45.94	5	4.04	0.26	SL
4	608	829-040	57.54	5	4.80	0.26	SL
5	H02	* 829-050S	114.11	1	5.47	0.22	SL
6	608	829-060	123.83	2	6.40	0.36	SL
8	608	829-080	168.52	2	8.40	0.35	SL
10	602	829-100	578.40	1	10.77	0.75	SL
12	602	829-120	666.60	1	12.82	0.75	SL
14	A33	* 829-140N	448.99	1	17.75	3.75	FAB
16	A33	* 829-160N	533.80	1	20.25	4.25	FAB
18	A33	* 829-180N	1,052.18	1	22.75	4.75	FAB
20	A33	* 829-200N	1,297.28	1	25.25	5.25	FAB
24	A33	* 829-240N	1,424.43	1	30.25	6.25	FAB

Reducing Coupling (S x S)

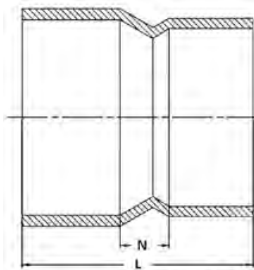
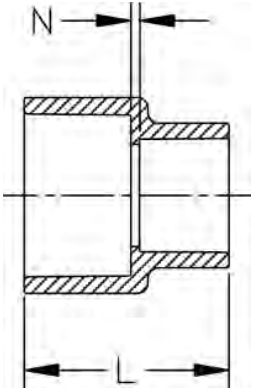


Image for 14"-24"
Fabricated

Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	N (inch)	Design
¾ x ½	608	829-101	8.12	20	2.13	0.13	HS
1 x ½	608	829-130	11.33	25	2.17	0.12	HS
1 x ¾	608	829-131	11.82	25	2.26	0.11	HS
1 ¼ x 1	608	829-168	24.01	10	2.52	0.10	HS
1 ½ x ½	608	* 829-209FB	25.13	10	2.94	0.66	BUSH
1 ½ x ¾	608	829-210	25.13	10	2.50	0.09	BUSH
1 ½ x 1	608	829-211	25.13	10	2.65	0.11	HS
1 ½ x 1 ¼	608	829-212	31.06	10	2.82	0.09	HS
2 x ½	608	* 829-247FB	28.35	5	3.44	0.87	BUSH
2 x ¾	608	829-248	28.35	5	3.14	0.34	HS
2 x 1	608	829-249	28.35	5	3.15	0.32	HS
2 x 1 ¼	608	829-250	28.35	5	3.05	0.14	HS
2 x 1 ½	608	829-251	28.35	5	3.06	0.07	HS
2 ½ x 1 ½	608	829-291	37.81	5	3.36	0.14	HS
2 ½ x 2	608	* 829-292FB	37.81	5	4.08	0.66	BUSH
3 x 1	608	* 829-335FB	82.13	5	4.56	1.53	BUSH
3 x 1 ¼	608	* 829-336FB	86.45	5	4.29	1.07	FAB
3 x 1 ½	608	* 829-337FB	86.45	5	4.58	1.15	BUSH
3 x 2	608	829-338	69.62	5	3.61	0.17	HS
3 x 2 ½	608	* 829-339FB	99.27	5	4.42	0.63	BUSH
4 x 2	608	* 829-420FB	132.72	5	4.94	1.08	BUSH
4 x 3	608	829-422	131.16	5	4.38	0.22	HS
5 x 4	H04	* 829-490FS	67.41	1	7.75	2.50	FAB
6 x 2	608	* 829-528FB	328.40	2	10.61	4.60	BUSH
6 x 4	608	829-532	267.52	2	10.17	3.46	HS
8 x 4	608	* 829-582FB	293.01	2	9.81	3.53	BUSH
8 x 5	H04	* 829-583FS	322.09	1	14.69	7.44	FAB
8 x 6	608	829-585	810.23	2	9.18	2.11	HS
10 x 4	A33	* 829-623N	446.57	1	17.00	10.00	FAB
10 x 6	602	* 829-626FB	948.55	1	11.42	3.29	BUSH
10 x 6	A33	* 829-626N	365.96	1	13.00	5.00	FAB
10 x 8	602	* 829-628FB	948.55	1	11.45	2.32	BUSH
10 x 8	A33	* 829-628N	263.40	1	12.75	3.75	FAB
12 x 4	A33	* 829-663N	623.20	1	26.25	18.25	FAB
12 x 6	A33	* 829-666N	539.09	1	20.50	11.50	FAB
12 x 8	602	* 829-668FB	1,079.36	1	13.54	3.41	BUSH
12 x 8	A33	* 829-668N	417.41	1	15.50	5.50	FAB
12 x 10	602	* 829-670FB	1,093.19	1	13.24	2.13	BUSH
12 x 10	A33	* 829-670N	281.98	1	15.00	4.00	FAB
14 x 4	A33	* 829-696N	908.00	1	21.00	3.00	FAB
14 x 6	A33	* 829-698N	766.96	1	31.00	21.00	FAB
14 x 8	A33	* 829-700N	701.82	1	21.00	10.00	FAB
14 x 10	A33	* 829-702N	686.41	1	17.00	5.00	FAB
14 x 12	A33	* 829-704N	411.72	1	16.50	3.50	FAB
16 x 4	A33	* 829-730N	1,348.14	1	16.50	3.50	FAB
16 x 6	A33	* 829-732N	1,219.28	1	16.50	4.50	FAB
16 x 8	A33	* 829-734N	1,070.86	1	18.05	5.00	FAB
16 x 10	A33	* 829-736N	951.19	1	19.50	6.50	FAB
16 x 12	A33	* 829-738N	801.76	1	19.25	5.25	FAB
16 x 14	A33	* 829-740N	608.63	1	19.50	4.50	FAB
18 x 4	A33	* 829-784N	2,844.55	1	48.50	37.50	FAB
18 x 6	A33	* 829-786N	2,659.00	1	36.00	24.00	FAB
18 x 8	A33	* 829-788N	2,517.64	1	42.50	29.50	FAB
18 x 10	A33	* 829-790N	2,277.47	1	33.50	19.50	FAB
18 x 12	A33	* 829-792N	1,874.64	1	22.00	7.00	FAB
18 x 14	A33	* 829-794N	1,269.06	1	22.25	6.25	FAB
18 x 16	A33	* 829-796N	1,083.43	1	21.75	4.75	FAB
20 x 4	A33	* 829-814N	2,816.13	1	60.50	48.50	FAB
20 x 6	A33	* 829-816N	2,592.86	1	55.50	42.50	FAB
20 x 8	A33	* 829-818N	2,478.28	1	56.25	42.25	FAB
20 x 10	A33	* 829-820N	2,391.36	1	47.25	32.25	FAB

table continued on the next page

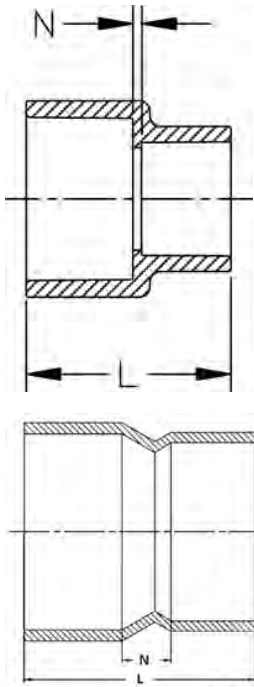
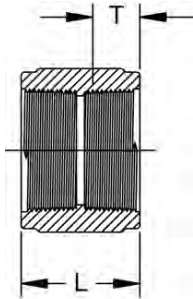


Image for 14"-24"
Fabricated

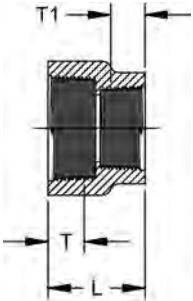
Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	N (inch)	Design
20 x 12	A33	* 829-822N	2,068.75	1	37.00	21.00	FAB
20 x 14	A33	* 829-824N	2,063.28	1	37.25	20.25	FAB
20 x 16	A33	* 829-826N	1,895.34	1	24.50	6.50	FAB
20 x 18	A33	* 829-828N	1,306.98	1	25.25	6.25	FAB
24 x 4	A33	* 829-904N	4,504.65	1	66.00	52.00	FAB
24 x 6	A33	* 829-906N	4,436.06	1	61.00	46.00	FAB
24 x 8	A33	* 829-908N	4,339.94	1	52.00	36.00	FAB
24 x 10	A33	* 829-910N	4,235.25	1	52.75	35.75	FAB
24 x 12	A33	* 829-912N	3,852.81	1	42.50	24.50	FAB
24 x 14	A33	* 829-914N	3,553.71	1	42.75	23.75	FAB
24 x 16	A33	* 829-916N	3,238.71	1	42.25	22.25	FAB
24 x 18	A33	* 829-918N	2,958.33	1	29.50	8.50	FAB
24 x 20	A33	* 829-920N	2,793.27	1	29.25	7.25	FAB

Coupling (FPT x FPT)



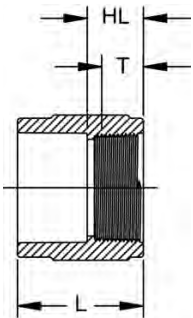
Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	T (inch)	Design
¼	608	* 830-002	8.46	50	1.29	0.61	HS
⅜	608	* 830-003	8.46	50	1.35	0.62	HS
½	608	^ 830-005	7.41	25	1.68	0.77	SL
¾	608	^ 830-007	10.57	20	1.75	0.80	SL
1	608	^ 830-010	11.35	25	2.13	0.99	SL
1 ¼	608	^ 830-012	14.04	10	2.19	1.03	SL
1 ½	608	^ 830-015	31.24	10	2.22	1.03	SL
2	608	^ 830-020	32.80	5	2.29	1.08	SL
2 ½	608	^ 830-025	78.29	5	3.33	1.51	SL
3	608	^ 830-030	91.81	5	3.53	1.65	SL
4	608	^ 830-040	158.98	5	3.76	1.75	SL

Reducing Coupling (FPT x FPT)



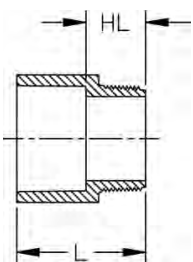
Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	T (inch)	T1 (inch)	Design
3/8 x 1/4	608	* 830-052	12.24	50	1.29	0.60	0.59	HS
1/2 x 1/4	608	* 830-072	12.55	50	1.44	0.75	0.59	HS
1/2 x 3/8	608	* 830-073	12.79	50	1.46	0.74	0.60	HS
3/4 x 1/2	608	^ 830-101	8.82	25	1.68	0.78	0.78	HS
1 x 1/2	608	^ 830-130	13.06	25	1.84	0.98	0.77	BUSH
1 x 3/4	608	^ 830-131	13.06	25	1.88	0.98	0.80	HS
1 1/4 x 3/4	608	^ 830-167	28.08	25	1.90	1.00	0.79	HS
1 1/2 x 1	608	^ 830-211	42.99	20	2.06	1.02	0.95	HS
2 x 1 1/2	608	^ 830-251	55.32	10	2.18	1.05	1.02	BUSH

Female Adapter (S x FPT)



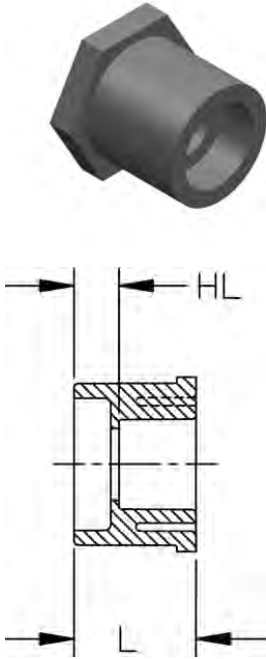
Size (inch)	P/L	Part No.	USD	Pack Qty	HL (inch)	L (inch)	T (inch)	Design
1/4	608	* 835-002	11.92	50	0.75	1.43	0.58	HS
3/8	608	* 835-003	11.92	50	0.75	1.56	0.62	HS
1/2	608	835-005	6.20	25	0.91	1.80	0.75	HS
3/4	608	835-007	9.22	25	0.95	1.96	0.79	HS
1	608	835-010	13.59	25	1.11	2.27	0.98	HS
1 1/4	608	835-012	22.01	10	1.18	2.44	1.02	HS
1 1/2	608	835-015	26.98	10	1.19	2.59	1.03	HS
2	608	835-020	47.07	5	1.25	2.76	1.06	HS
2 1/2	608	835-025	74.32	5	1.77	3.53	1.51	HS
3	608	835-030	83.66	5	1.91	3.80	1.65	HS
4	608	835-040	143.79	5	2.02	4.29	1.74	HS
6	608	835-060	170.26	2	3.27	6.37	2.37	SL
8	608	835-080	320.08	2	4.35	8.36	2.35	HS
10	602	835-100	350.85	2	5.68	10.78	2.68	HS
12	A33	* 835-120N	365.61	1	6.00	11.13	2.13	FAB

Male Adapter (S x MPT)



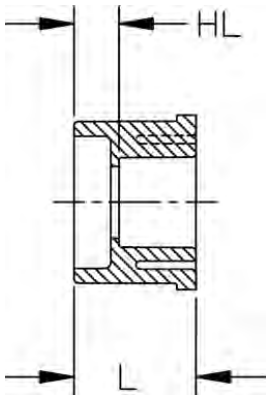
Size (inch)	P/L	Part No.	USD	Pack Qty	HL (inch)	L (inch)	Design
1/2	608	836-005	7.75	50	0.94	1.85	SL
3/4	608	836-007	8.55	25	1.05	2.03	HS
1	608	836-010	14.78	25	1.22	2.38	HS
1 1/4	608	836-012	17.28	15	1.28	2.56	HS
1 1/2	608	836-015	24.83	10	1.30	2.69	HS
2	608	836-020	35.92	5	1.32	2.83	HS
2 1/2	608	836-025	40.82	5	1.87	3.70	HS
3	608	836-030	45.31	5	1.99	3.90	HS
4	608	836-040	80.62	5	2.15	4.40	HS
6	A33	* 836-060N	179.08	1	3.25	6.25	FAB
8	A33	* 836-080N	193.08	1	3.50	7.50	FAB
10	A33	* 836-100N	231.09	1	4.18	9.18	FAB
12	A33	* 836-120N	343.42	1	4.63	10.63	FAB

Flush Style Reducer Bushing (SPG x S)



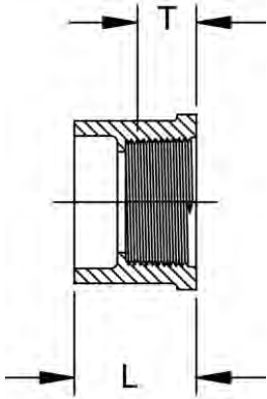
Size (inch)	P/L	Part No.	USD	Pack Qty	HL (inch)	L (inch)	Design
½ x ¼	608	* 837-072	6.23	50	0.47	1.15	FLUSH
½ x ⅜	608	* 837-073	6.23	50	0.33	1.09	FLUSH
¾ x ½	608	837-101	2.14	50	0.42	1.30	FLUSH
1 x ½	608	837-130	6.12	50	0.55	1.44	FLUSH
1 x ¾	608	837-131	6.12	50	0.41	1.43	FLUSH
1 ¼ x ½	608	837-166	9.59	25	0.66	1.55	FLUSH
1 ¼ x ¾	608	837-167	9.59	25	0.56	1.57	FLUSH
1 ¼ x 1	608	837-168	9.59	25	0.44	1.59	FLUSH
1 ½ x ½	608	837-209	13.06	25	0.78	1.69	FLUSH
1 ½ x ¾	608	837-210	13.06	25	0.67	1.68	FLUSH
1 ½ x 1	608	837-211	13.06	25	0.55	1.69	FLUSH
1 ½ x 1 ¼	608	837-212	13.06	25	0.44	1.72	FLUSH
2 x ½	608	837-247	18.62	10	0.91	1.81	FLUSH
2 x ¾	608	837-248	18.62	10	0.79	1.82	FLUSH
2 x 1	608	837-249	18.62	10	0.68	1.83	FLUSH
2 x 1 ¼	608	837-250	18.62	10	0.54	1.81	FLUSH
2 x 1 ½	608	837-251	18.62	10	0.40	1.81	FLUSH
2 ½ x 1 ½	608	837-291	32.35	5	0.79	2.31	FLUSH
2 ½ x 2	608	837-292	32.35	5	0.47	2.10	FLUSH
3 x 1	608	837-335	51.32	5	1.27	2.42	FLUSH
3 x 1 ¼	608	* 837-336FB	51.32	5	1.43	2.71	FLUSH
3 x 1 ½	608	837-337	51.32	5	0.89	2.43	FLUSH
3 x 2	608	837-338	51.32	5	0.86	2.42	FLUSH
3 x 2 ½	608	837-339	51.32	5	0.38	2.27	FLUSH
4 x 2	608	837-420	71.04	5	1.14	2.70	FLUSH
4 x 3	608	837-422	71.04	5	0.77	2.74	FLUSH
6 x 3	608	837-530	98.79	2	1.74	3.65	FLUSH
6 x 4	608	837-532	98.79	2	1.42	3.67	FLUSH
6 x 5	H02	* 837-534S	98.79	1	0.88	3.53	FLUSH
8 x 6	608	837-585	240.33	2	1.69	4.66	FLUSH
10 x 4	602	* 837-623FB	669.11	1	4.01	6.26	BUSH
10 x 6	602	837-626	564.56	1	2.59	5.69	FLUSH
10 x 8	602	837-628	564.56	1	1.62	5.72	FLUSH
12 x 6	602	* 837-666FB	910.98	1	4.26	7.35	BUSH
12 x 8	602	837-668	652.43	1	2.66	6.76	FLUSH
12 x 10	602	837-670	652.43	1	1.66	6.77	FLUSH
14 x 4	A33	* 837-696N	1,413.94	1	5.50	7.50	FAB
14 x 6	A33	* 837-698N	1,258.96	1	4.50	7.50	FAB
14 x 8	A33	* 837-700N	902.03	1	3.50	7.50	FAB
14 x 10	A33	* 837-702N	563.13	1	2.50	7.50	FAB
14 x 12	A33	* 837-704N	241.57	1	1.50	7.50	FAB
16 x 4	A33	* 837-730N	1,615.28	1	6.50	8.50	FAB
16 x 6	A33	* 837-732N	1,499.93	1	5.50	8.50	FAB
16 x 8	A33	* 837-734N	1,180.92	1	4.50	8.50	FAB
16 x 10	A33	* 837-736N	855.97	1	3.50	8.50	FAB
16 x 12	A33	* 837-738N	505.19	1	2.50	8.50	FAB
16 x 14	A33	* 837-740N	493.51	1	1.50	8.50	FAB
18 x 4	A33	* 837-784N	2,775.37	1	7.50	9.50	FAB
18 x 6	A33	* 837-786N	2,542.81	1	6.50	9.50	FAB
18 x 8	A33	* 837-788N	2,329.75	1	5.50	9.50	FAB
18 x 10	A33	* 837-790N	1,912.45	1	4.50	9.50	FAB
18 x 12	A33	* 837-792N	1,218.69	1	3.50	9.50	FAB
18 x 14	A33	* 837-794N	1,207.09	1	2.50	9.50	FAB
18 x 16	A33	* 837-796N	557.49	1	1.50	9.50	FAB
20 x 4	A33	* 837-814N	3,835.67	1	8.50	10.50	FAB
20 x 6	A33	* 837-816N	3,547.44	1	7.50	10.50	FAB
20 x 8	A33	* 837-818N	3,280.87	1	6.50	10.50	FAB
20 x 10	A33	* 837-820N	3,037.15	1	5.50	10.50	FAB
20 x 12	A33	* 837-822N	2,693.03	1	4.50	10.50	FAB
20 x 14	A33	* 837-824N	2,214.35	1	3.50	10.50	FAB
20 x 16	A33	* 837-826N	1,737.44	1	2.50	10.50	FAB

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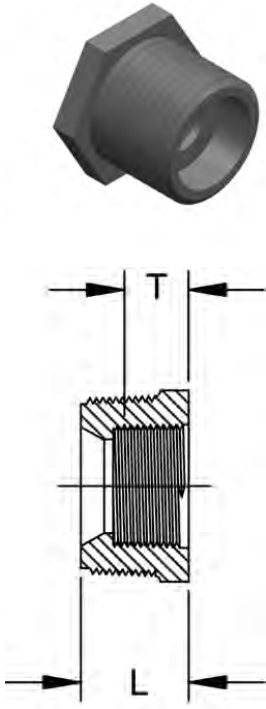
Size (inch)	P/L	Part No.	USD	Pack Qty	HL (inch)	L (inch)	Design
20 x 18	A33	* 837-828N	906.99	1	1.50	10.50	FAB
24 x 4	A33	* 837-904N	5,747.80	1	10.50	12.50	FAB
24 x 6	A33	* 837-906N	5,572.80	1	9.50	12.50	FAB
24 x 8	A33	* 837-908N	5,403.13	1	8.50	12.50	FAB
24 x 10	A33	* 837-910N	4,746.07	1	7.50	12.50	FAB
24 x 12	A33	* 837-912N	4,282.03	1	6.50	12.50	FAB
24 x 14	A33	* 837-914N	4,010.47	1	5.50	12.50	FAB
24 x 16	A33	* 837-916N	3,793.66	1	4.50	12.50	FAB
24 x 18	A33	* 837-918N	3,288.27	1	3.50	12.50	FAB
24 x 20	A33	* 837-920N	2,717.57	1	2.50	12.50	FAB

Flush Style Reducer Bushing (SPG x FPT)



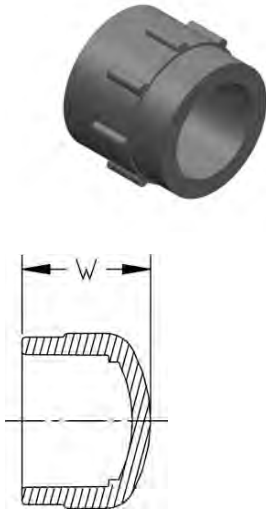
Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	T (inch)	Design
3/8 x 1/4	608	* 838-052E	6.23	50	1.59	0.60	Extended
1/2 x 1/4	608	* 838-072	6.23	50	1.14	0.61	FLUSH
1/2 x 3/8	608	* 838-073	6.23	50	1.21	0.60	FLUSH
3/4 x 1/4	608	* 838-098	3.86	50	1.13	0.61	FLUSH
3/4 x 1/2	608	838-101	3.86	50	1.28	0.77	FLUSH
1 x 1/2	608	838-130	6.12	50	1.42	0.76	FLUSH
1 x 3/4	608	838-131	6.12	50	1.41	0.81	FLUSH
1 1/4 x 1/2	608	838-166	12.42	15	1.56	0.75	FLUSH
1 1/4 x 3/4	608	838-167	12.42	15	1.56	0.79	FLUSH
1 1/4 x 1	608	838-168	12.42	15	1.56	0.99	FLUSH
1 1/2 x 1/2	608	838-209	15.56	15	1.68	0.76	FLUSH
1 1/2 x 3/4	608	838-210	15.56	15	1.69	0.79	FLUSH
1 1/2 x 1	608	838-211	15.56	15	1.68	0.99	FLUSH
1 1/2 x 1 1/4	608	838-212	15.56	15	1.69	1.10	FLUSH
2 x 1/2	608	838-247	19.03	10	1.80	0.77	FLUSH
2 x 3/4	608	838-248	19.03	10	1.80	0.80	FLUSH
2 x 1	608	838-249	19.03	10	1.80	0.99	FLUSH
2 x 1 1/4	608	838-250	19.03	10	1.81	1.02	FLUSH
2 x 1 1/2	608	838-251	19.03	10	1.88	1.04	FLUSH
2 1/2 x 1 1/2	608	838-291	40.29	5	2.24	1.07	FLUSH
2 1/2 x 2	608	838-292	40.29	5	2.12	1.10	FLUSH
3 x 2	608	838-338	74.60	5	2.42	1.07	FLUSH
3 x 2 1/2	608	838-339	74.60	5	2.25	1.61	FLUSH
4 x 2	608	838-420	114.60	5	2.71	1.10	FLUSH
4 x 3	608	838-422	114.60	5	2.75	1.62	FLUSH

Flush Style Reducer Bushing (MPT x FPT)



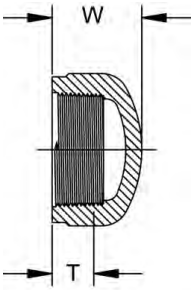
Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	T (inch)	Style
3/8 x 1/4	608	* 839-052	14.41	50	0.80	0.60	FLUSH
1/2 x 1/4	608	* 839-072	14.41	50	0.95	0.60	FLUSH
1/2 x 3/8	608	* 839-073	14.41	50	0.96	0.61	FLUSH
3/4 x 1/4	608	* 839-098	9.95	50	1.01	0.61	FLUSH
3/4 x 3/8	608	* 839-099	9.95	50	1.02	0.61	FLUSH
3/4 x 1/2	608	^ 839-101	8.20	50	1.08	0.75	FLUSH
1 x 1/4	608	* 839-128	16.05	25	1.23	0.58	FLUSH
1 x 1/2	608	^ 839-130	12.84	25	1.24	0.76	FLUSH
1 x 3/4	608	^ 839-131	12.84	25	1.28	0.80	FLUSH
1 1/4 x 1/2	608	^ 839-166	13.62	25	1.29	0.76	FLUSH
1 1/4 x 3/4	608	^ 839-167	13.62	25	1.29	0.79	FLUSH
1 1/4 x 1	608	^ 839-168	13.62	25	1.30	1.00	FLUSH
1 1/2 x 3/4	608	^ 839-210	16.15	25	1.33	0.78	FLUSH
1 1/2 x 1	608	^ 839-211	16.15	25	1.34	0.98	FLUSH
1 1/2 x 1 1/4	608	^ 839-212	16.15	25	1.33	1.02	FLUSH
2 x 1/2	608	^ 839-247	23.65	10	1.44	0.76	FLUSH
2 x 3/4	608	^ 839-248	23.65	10	1.44	0.80	FLUSH
2 x 1	608	^ 839-249	23.65	10	1.42	0.97	FLUSH
2 x 1 1/4	608	^ 839-250	23.65	10	1.43	1.01	FLUSH
2 x 1 1/2	608	^ 839-251	23.65	10	1.35	1.02	FLUSH
3 x 2	608	^ 839-338	43.54	5	2.02	1.09	FLUSH
4 x 2	608	^ 839-420	89.74	5	2.07	1.10	FLUSH
4 x 3	608	^ 839-422	114.60	5	2.06	1.60	FLUSH

Cap (S)



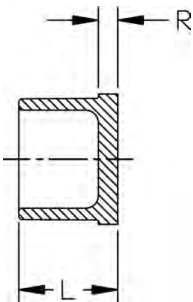
Size (inch)	P/L	Part No.	USD	Pack Qty	W (inch)	Design
1/4	608	* 847-002	8.88	50	0.96	HS
3/8	608	* 847-003	8.88	50	1.11	HS
1/2	608	847-005	6.48	50	1.30	HS
3/4	608	847-007	6.83	50	1.46	HS
1	608	847-010	12.15	25	1.66	HS
1 1/4	608	847-012	14.65	15	1.89	HS
1 1/2	608	847-015	14.65	10	2.08	HS
2	608	847-020	28.93	5	2.32	HS
2 1/2	608	847-025	59.07	5	2.61	HS
3	608	847-030	69.12	5	3.06	HS
4	608	847-040	116.56	5	3.69	HS
5	H04	* 847-050FS	148.02	1	4.44	FAB
6	608	847-060	289.95	2	4.86	HS
8	608	847-080	372.27	2	6.25	SL
10	602	847-100	380.81	1	7.92	SL
12	602	847-120	571.52	1	9.37	SL
14	A33	* 847-140N	632.92	1	5.75	FAB
16	A33	* 847-160N	819.95	1	7.00	FAB
18	A33	* 847-180N	1,197.09	1	8.25	FAB
20	A33	* 847-200N	1,604.76	1	8.75	FAB
24	A33	* 847-240N	2,985.54	1	10.25	FAB

Cap (FPT)



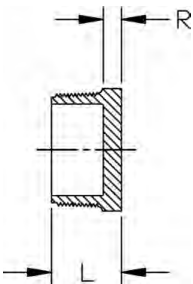
Size (inch)	P/L	Part No.	USD	Pack Qty	W (inch)	T (inch)	Design
¼	608	* 848-002	8.57	50	0.93	0.54	HS
¾	608	* 848-003	8.57	50	0.94	0.62	HS
½	608	^ 848-005	8.12	50	1.14	0.74	HS
¾	608	^ 848-007	9.08	25	1.25	0.80	HS
1	608	^ 848-010	11.44	25	1.51	0.97	HS
1 ¼	608	^ 848-012	13.62	15	1.59	1.00	HS
1 ½	608	^ 848-015	15.56	10	1.70	1.01	HS
2	608	^ 848-020	30.57	5	1.82	1.06	HS
2 ½	608	^ 848-025	61.15	5	2.61	1.45	HS
3	608	^ 848-030	71.99	5	2.80	1.83	HS
4	608	^ 848-040	126.76	5	3.16	1.80	HS

Plug (SPG)



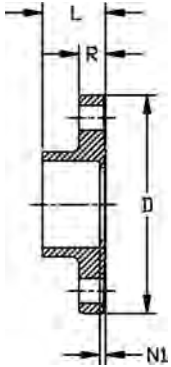
Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	R (inch)
½	608	849-005	6.06	50	1.08	0.18
¾	608	849-007	6.75	50	1.25	0.22
1	608	849-010	7.61	25	1.41	0.25
1 ¼	608	849-015	10.66	20	1.72	0.31
2	608	849-020	14.11	10	1.90	0.38
4	608	849-040	87.11	5	2.65	0.39

Plug (MPT)



Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	R (inch)	Design
¼	608	* 850-002	7.40	50	0.81	0.22	HS
¾	608	* 850-003	7.40	50	0.83	0.22	HS
½	608	850-005	6.24	50	0.98	0.22	HS
¾	608	850-007	6.48	50	1.06	0.25	HS
1	608	850-010	7.95	25	1.24	0.27	HS
1 ¼	608	850-012	11.72	25	1.33	0.31	HS
1 ½	608	850-015	14.24	20	1.38	0.34	HS
2	608	850-020	14.62	10	1.47	0.39	HS
2 ½	608	850-025	40.82	10	1.95	0.38	HS
3	608	850-030	47.63	5	1.98	0.38	HS
4	608	850-040	92.73	5	2.16	0.39	HS
6	A33	* 850-060N	110.24	1	2.00	0.75	FAB
8	A33	* 850-080N	426.96	1	2.00	0.75	FAB
10	A33	* 850-100N	521.92	1	2.00	0.75	FAB
12	A33	* 850-120N	588.27	1	2.00	0.75	FAB

Flange - One Piece (S)

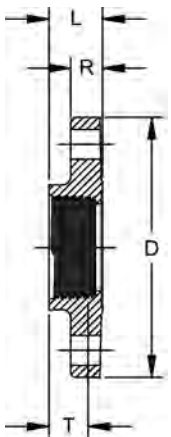


- ANSI 150 Class according to ANSI B16.5
- 150 psi @ 73°F (10.3 bar @ 22.7°C)
- HC = Honeycomb (Face)

Size (inch)	P/L	Part No.	USD
½	608	851-005	20.06
¾	608	851-007	21.44
1	608	851-010	23.87
1 ¼	608	851-012	24.60
1 ½	608	851-015	25.13
2	608	851-020	33.45
2 ½	608	851-025	51.63
3	608	851-030	57.02
4	608	851-040	72.20
5	H02	* 851-050S	Call
6	608	851-060	113.52
8	608	851-080	203.14

Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	N1 (inch)	R (inch)	Design
5	4	½	2.38	3.50	1.02	0.13	0.39	HC
5	4	½	2.75	3.89	1.14	0.13	0.45	HC
5	4	½	3.13	4.28	1.30	0.16	0.52	HC
5	4	½	3.50	4.64	1.45	0.14	0.59	HC
5	4	½	3.88	5.01	1.54	0.16	0.68	HC
5	4	⅝	4.75	6.01	1.73	0.16	0.69	HC
5	4	⅝	5.50	7.00	1.99	0.17	0.75	HC
5	4	⅝	6.00	7.51	2.46	0.57	1.10	HC
5	8	⅝	7.50	9.04	2.79	0.52	1.19	HC
5	8	¾	8.50	10.13	3.25	0.25	1.00	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

Flange - One Piece (FPT)

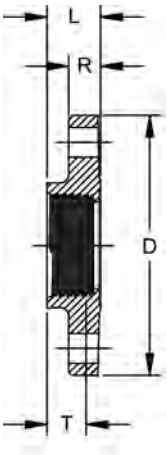


- ANSI 150 Class according to ANSI B16.5
- 75 psi @ 73°F (5.2 bar @ 22.7°C)
- HC = Honeycomb (Face)

Size (inch)	P/L	Part No.	USD
½	608	^ 852-005	24.01
¾	608	^ 852-007	28.14
1	608	^ 852-010	30.80
1 ¼	608	^ 852-012	42.47
1 ½	608	^ 852-015	46.35
2	608	^ 852-020	47.40
2 ½	608	^ 852-025	108.99
3	608	^ 852-030	112.18
4	608	^ 852-040	210.77

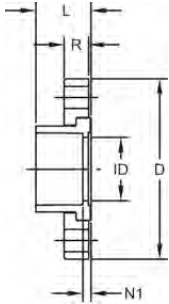
Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	T (inch)	R (inch)	Design
5	4	½	2.38	3.51	0.89	0.77	0.39	HC
5	4	½	2.75	3.89	0.91	0.79	0.45	HC
5	4	½	3.13	4.28	1.13	1.00	0.53	HC
5	4	½	3.50	4.62	1.20	1.06	0.58	HC
5	4	½	3.88	4.99	1.19	1.03	0.68	HC

table continued on the next page



Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	T (inch)	R (inch)	Design
5	4	5/8	4.75	6.02	1.22	1.06	0.70	HC
5	4	5/8	5.50	7.00	1.72	1.53	0.75	HC
5	4	5/8	6.00	7.50	2.15	1.63	1.15	HC
5	8	5/8	7.50	9.00	2.30	1.77	1.23	HC

Flange - Van Stone (S)



- ANSI 150 Class according to ANSI B16.5
- 1/2" - 12" pressure rating is 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 (Face)

Size (inch)	P/L	Part No.	USD
1/2	608	854-005	20.03
3/4	608	854-007	21.43
1	608	854-010	23.86
1 1/4	608	854-012	24.58
1 1/2	608	854-015	25.07
2	608	854-020	33.40
2 1/2	608	854-025	51.58
3	608	854-030	57.00
4	608	854-040	72.09
5	H02	* 854-050S	113.42
6	608	854-060	113.42
8	608	854-080	206.85
10	602	854-100	294.51
12	602	854-120	435.08
14	A33	* 854-140N	1,358.94
16	A33	* 854-160N	1,646.04
18	A33	* 854-180N	2,005.42
20	A33	* 854-200N	2,430.13
24	A33	* 854-240N	3,270.57

Size (inch)	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	N1 (inch)	R (inch)	ID (inch)	Design
1/2	5	4	1/2	2.38	3.53	1.10	0.18	0.57	0.60	HC
3/4	5	4	1/2	2.75	3.87	1.23	0.18	0.59	0.82	HC
1	5	4	1/2	3.13	4.25	1.38	0.20	0.66	1.03	HC
1 1/4	5	4	1/2	3.50	4.62	1.52	0.21	0.69	1.36	HC
1 1/2	5	4	1/2	3.88	5.01	1.68	0.25	0.75	1.60	HC
2	5	4	5/8	4.75	6.02	1.84	0.29	0.82	2.06	HC
2 1/2	5	4	5/8	5.50	7.01	2.15	0.33	0.98	2.49	HC
3	5	4	5/8	6.00	7.50	2.33	0.39	1.02	3.09	HC
4	5	8	5/8	7.50	8.99	2.75	0.24	1.10	4.06	HC
5	1	8	3/4	8.50	10.18	2.98	0.33	1.13	4.81	HC
6	2	8	3/4	9.50	10.98	3.55	0.48	1.25	6.11	HC
8	2	8	3/4	11.75	13.51	4.60	0.51	1.71	8.00	HC
10	2	12	7/8	14.25	15.97	5.66	0.53	1.73	10.10	HC
12	2	12	7/8	17.00	18.95	6.71	0.57	1.72	11.96	HC
14	1	12	1	18.75	21.00	11.75	4.75	0.50	12.50	FAB
16	1	16	1	21.25	23.50	13.50	5.50	0.50	14.31	FAB
18	1	16	1 1/8	22.75	25.00	14.50	5.50	0.50	16.13	FAB
20	1	20	1 1/8	25.00	27.50	17.25	7.25	0.50	18.00	FAB
24	1	20	1 1/4	29.50	32.00	19.50	7.50	0.50	21.56	FAB

Flange - Van Stone (FPT)

- ANSI 150 Class according to ANSI B16.5
- 75 psi @ 73°F (5.2 bar @ 22.7°C)
- HC = Honeycomb (Face)

Size (inch)	P/L	Part No.	USD
½	608	^ 855-005	23.97
¾	608	^ 855-007	28.13
1	608	^ 855-010	30.76
1 ¼	608	^ 855-012	42.39
1 ½	608	^ 855-015	46.31
2	608	^ 855-020	47.38
2 ½	608	^ 855-025	108.91
3	608	^ 855-030	112.03
4	608	^ 855-040	203.69

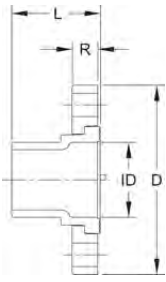
Size (inch)	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	T (inch)	R (inch)	ID (inch)	Design
½	5	4	½	2.38	3.53	1.10	0.79	0.57	0.63	HC
¾	5	4	½	2.75	3.87	1.23	0.82	0.59	0.83	HC
1	5	4	½	3.13	4.25	1.39	1.01	0.66	1.06	HC
1 ¼	5	4	½	3.50	4.62	1.50	1.02	0.69	1.38	HC
1 ½	5	4	½	3.88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

Flange - Van Stone (SPG)

- ANSI 150 Class according to ANSI B16.5
- 1/2" - 12" pressure rating is 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 (Face)

Size (inch)	P/L	Part No.	USD
½	608	856-005	20.15
¾	608	856-007	21.59
1	608	856-010	24.06
1 ¼	608	856-012	24.82
1 ½	608	856-015	25.32
2	608	856-020	33.65
2 ½	608	856-025	52.01
3	608	856-030	57.45
4	608	856-040	72.69
6	608	856-060	114.35
8	608	856-080	204.56
10	602	856-100	239.11
12	602	856-120	257.80
14	A33	* 856-140N	1,080.58
16	A33	* 856-160N	1,320.79
18	A33	* 856-180N	1,496.59
20	A33	* 856-200N	1,802.62
24	A33	* 856-240N	2,447.77

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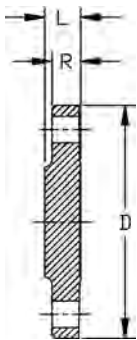


Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	R (inch)	ID (inch)	Design
5	4	1/2	2.38	3.53	1.72	0.57	0.84	HC
5	4	1/2	2.75	3.87	1.85	0.59	1.05	HC
5	4	1/2	3.13	4.25	2.10	0.66	1.32	HC
5	4	1/2	3.50	4.62	2.28	0.69	1.66	HC
5	4	1/2	3.88	5.01	2.48	0.75	1.90	HC
5	4	5/8	4.75	6.02	2.80	0.82	2.38	HC
5	4	5/8	5.50	7.01	3.27	0.98	2.86	HC
5	4	5/8	6.00	7.50	3.60	1.02	3.49	HC
5	8	5/8	7.50	8.99	4.10	1.10	4.49	HC
2	8	3/4	9.50	10.98	5.10	1.25	6.60	HC
1	8	3/4	11.75	13.51	6.88	1.71	8.62	HC
1	12	7/8	14.25	15.97	8.30	1.73	10.70	HC
1	12	7/8	17.00	18.95	9.55	1.72	12.69	HC
1	12	1	18.75	21.00	13.00	0.50	11.41	FAB
1	16	1	21.25	23.50	14.00	0.50	13.08	FAB
1	16	1 1/8	22.75	25.00	16.00	0.50	14.76	FAB
1	20	1 1/8	25.00	27.50	18.00	0.50	16.43	FAB
1	20	1 1/4	29.50	32.00	20.00	0.50	19.79	FAB

Flange (Blind)



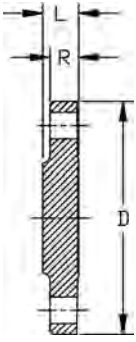
- ANSI 150 Class according to ANSI B16.5
- 1/2" - 8" 150 psi @ 73°F (10.3 bar @ 22.7°C)
- 10" - 24" 50 psi @ 73°F (3.5 bar @ 22.7°C)
- HC = Honeycomb (Face)



Size (inch)	P/L	Part No.	USD
1/2	608	853-005	28.13
3/4	608	853-007	33.49
1	608	853-010	45.75
1 1/4	608	853-012	56.16
1 1/2	608	853-015	56.16
2	608	853-020	83.92
2 1/2	608	853-025	136.71
3	608	853-030	164.98
4	608	853-040	205.52
5	H04	* 853-050FS	515.18
6	608	853-060	249.75
8	608	853-080	312.61
10	A33	* 853-100N	522.74
12	A33	* 853-120N	814.13
14	A33	* 853-140N	1,548.80
16	A33	* 853-160N	1,836.58
18	A33	* 853-180N	2,065.47
20	A33	* 853-200N	3,338.52
24	A33	* 853-240N	4,450.94

Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	R (inch)	Design
5	4	1/2	2.38	3.51	0.48	0.39	HC
5	4	1/2	2.75	3.90	0.55	0.45	HC
5	4	1/2	3.13	4.29	0.66	0.53	HC
5	4	1/2	3.50	4.62	0.73	0.59	HC
5	4	1/2	3.88	5.01	0.81	0.68	HC
5	4	5/8	4.75	6.02	0.90	0.70	HC
5	4	5/8	5.50	7.00	0.97	0.76	HC
5	4	5/8	6.00	7.45	1.03	1.03	HC
5	8	5/8	7.50	8.96	1.14	1.14	HC
1	8	1 1/4	8.50	10.06	1.00	1.00	SOLID

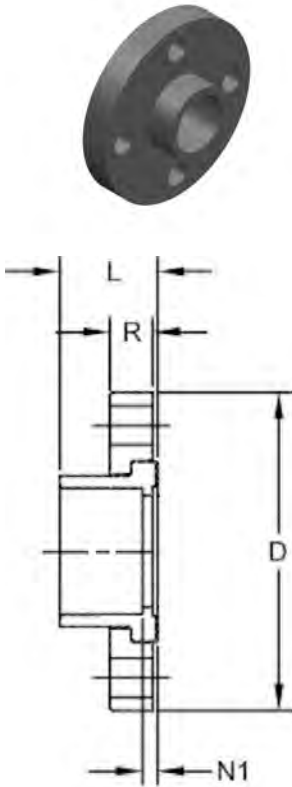
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Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	R (inch)	Design
2	8	¾	9.50	10.95	1.51	1.27	HC
2	8	¾	11.75	13.51	1.62	1.45	HC
1	12	7/8	14.25	16.00	1.00	1.00	SOLID
1	12	7/8	17.00	19.00	1.00	1.00	SOLID
1	12	1	18.75	21.00	1.00	1.00	SOLID
1	16	1	21.25	23.50	1.00	1.00	SOLID
1	16	1 1/8	22.75	25.00	1.00	1.00	SOLID
1	20	1 1/8	25.00	27.50	1.00	1.00	SOLID
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)

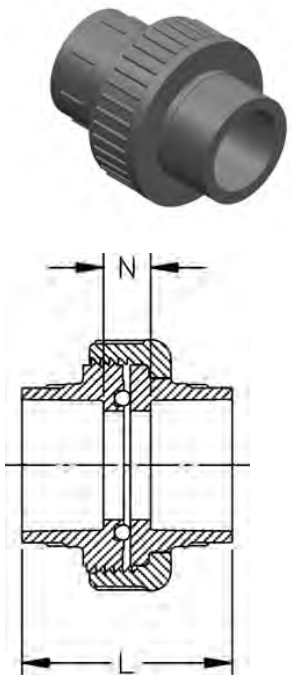


Size (inch)	P/L	Part No.	USD
½	608	* 854-005-300	156.66
¾	608	* 854-007-300	181.80
1	608	* 854-010-300	285.65
1 ¼	608	* 854-012-300	291.67
1 ½	608	* 854-015-300	302.98
2	608	* 854-020-300	319.00
2 ½	608	* 854-025-300	350.27
3	608	* 854-030-300	384.68
4	608	* 854-040-300	652.28
6	608	* 854-060-300	1,242.36
8	608	* 854-080-300	1,414.14
10	602	* 854-100-300	1,664.84
12	602	* 854-120-300	2,133.00

Size	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	N1 (inch)	R (inch)	Design
½	5	4	½	2.63	3.75	1.03	0.11	0.57	FAB
¾	5	4	⅝	3.25	4.63	1.15	0.13	0.59	FAB
1	5	4	⅞	3.50	4.88	1.38	0.11	0.66	FAB
1 ¼	5	4	⅞	3.88	5.25	1.45	0.14	0.69	FAB
1 ½	5	4	¾	4.50	6.13	1.59	0.15	0.75	FAB
2	5	8	⅞	5.00	6.50	1.76	0.20	0.82	FAB
2 ½	5	8	¾	5.88	7.50	2.05	0.22	0.98	FAB
3	5	8	¾	6.63	8.25	2.25	0.30	1.02	FAB
4	5	8	¾	7.88	10.00	2.65	0.34	1.10	FAB
6	2	12	¾	10.63	12.50	3.45	0.35	1.25	FAB
8	2	12	⅞	13.00	15.00	4.50	0.40	1.71	FAB
10	2	16	1	15.25	17.50	5.63	0.50	1.73	FAB
12	2	16	1 ⅛	17.75	20.50	6.69	0.56	1.72	FAB

Union Type 375 (S x S)

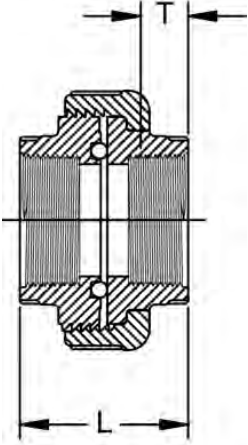
235 psi @ 73°F (16.2 bar @ 22.7°C)



Size (inch)	P/L	EPDM Part No.	USD	FKM Part No.	USD	Pack Qty	L (inch)	N (inch)
½	608	897-375-005	13.39	857-375-005	13.59	25	2.56	0.78
¾	608	897-375-007	17.04	857-375-007	17.26	10	2.80	0.76
1	608	897-375-010	19.51	857-375-010	19.69	5	3.22	0.89
1 ¼	608	897-375-012	38.66	857-375-012	39.13	5	3.56	0.99
1 ½	608	897-375-015	43.75	857-375-015	44.31	5	3.76	0.92
2	608	897-375-020	59.36	857-375-020	60.06	2	4.18	1.11

Union Type 375 (FPT X FPT)

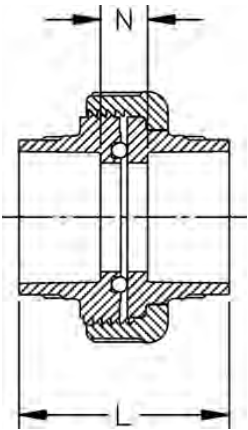
• 117 psi @ 73°F (8.1 bar @ 22.7°C)



Size (inch)	P/L	EPDM Part No.	USD	FKM Part No.	USD	Pack Qty	L (inch)	T (inch)
½	608	* 898-375-005	15.75	* 858-375-005	15.56	25	2.06	0.75
¾	608	* 898-375-007	22.06	* 858-375-007	21.76	10	2.11	0.79
1	608	* 898-375-010	29.34	* 858-375-010	28.99	5	2.60	1.01
1 ¼	608	* 898-375-012	55.99	* 858-375-012	55.28	5	2.80	1.06
1 ½	608	* 898-375-015	69.33	* 858-375-015	68.45	5	2.76	1.06
2	608	* 898-375-020	106.66	* 858-375-020	105.33	2	2.93	1.09

Union (S x S)

150 psi @ 73°F (10.3 bar @ 22.7°C)



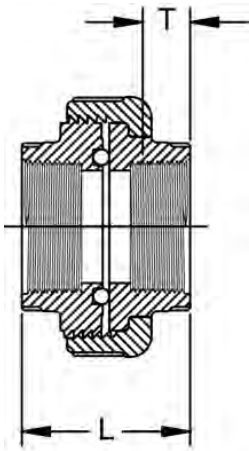
Size (inch)	P/L	EPDM Part No.	USD	FKM Part No.	USD	Pack Qty	L (inch)	N (inch)
3	608	* 897-030	110.45	* 857-030	111.84	1	4.74	0.96
4	608	* 897-040	152.78	* 857-040	155.78	1	5.62	1.11



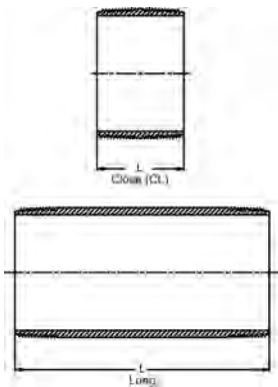
Union (FPT X FPT)

• 75 psi @ 73°F (5.2 bar @ 22.7°C)

Size (inch)	P/L	EPDM Part No.	USD	FKM Part No.	USD	Pack Qty	L (inch)	T (inch)
3	608	* 898-030	267.21	* 858-030	270.56	1	4.75	1.33
4	608	* 898-040	312.52	* 858-040	317.98	1	5.71	1.78

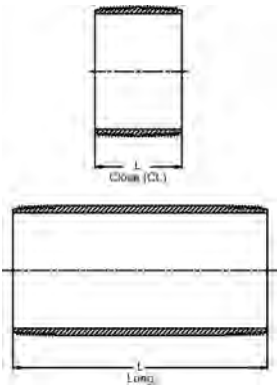


Nipple (MPT x MPT)



Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	Design
1/2 x CL	608	* 861-077	5.39	50	1.13	MOLD
1/2 x 2	608	* 861-079	5.71	25	2.00	MOLD
1/2 x 3	608	* 861-081	6.64	25	3.00	MOLD
1/2 x 4	608	* 861-082	7.26	25	4.00	MOLD
1/2 x 5	608	* 861-083	8.81	25	5.00	MOLD
1/2 x 6	608	* 861-084	9.42	25	6.00	MOLD
1/2 x 8	608	* 861-086	11.07	25	8.00	FAB
1/2 x 10	608	* 861-087	12.95	25	10.00	FAB
1/2 x 12	608	* 861-088	14.73	25	12.00	FAB
3/4 x CL	608	* 861-104	5.71	25	1.38	MOLD
3/4 x 2	608	* 861-020	6.13	25	2.00	MOLD
3/4 x 3	608	* 861-106	6.85	25	3.00	MOLD
3/4 x 4	608	* 861-107	8.19	25	4.00	MOLD
3/4 x 5	608	* 861-108	9.72	25	5.00	MOLD
3/4 x 6	608	* 861-109	11.52	25	6.00	MOLD
3/4 x 8	608	* 861-110	13.39	25	8.00	FAB
3/4 x 10	608	* 861-111	15.86	25	10.00	FAB
3/4 x 12	608	* 861-112	18.02	25	12.00	FAB
1 x CL	608	* 861-133	8.19	25	1.50	MOLD
1 x 2	608	* 861-134	9.19	25	2.00	MOLD
1 x 3	608	* 861-135	10.16	25	3.00	MOLD
1 x 4	608	* 861-136	11.82	25	4.00	MOLD
1 x 5	608	* 861-137	14.73	25	5.00	MOLD
1 x 6	608	* 861-138	16.16	25	6.00	MOLD
1 x 8	608	* 861-139	19.20	25	8.00	FAB
1 x 10	608	* 861-140	22.94	25	10.00	FAB
1 x 12	608	* 861-141	25.51	25	12.00	FAB
1 1/4 x CL	608	* 861-170	10.38	25	1.63	MOLD
1 1/4 x 2	608	* 861-171	11.87	25	2.00	MOLD
1 1/4 x 3	608	* 861-172	13.39	25	3.00	MOLD
1 1/4 x 4	608	* 861-173	15.65	25	4.00	MOLD
1 1/4 x 5	608	* 861-174	18.45	25	5.00	MOLD
1 1/4 x 6	608	* 861-175	20.21	25	6.00	MOLD
1 1/4 x 8	608	* 861-176	24.58	25	8.00	FAB
1 1/4 x 10	608	* 861-177	28.53	25	10.00	FAB

table continued on the next page



Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	Design
1 1/4 x 12	608	* 861-178	32.05	25	12.00	FAB
1 1/2 x CL	608	* 861-213	12.95	25	1.75	MOLD
1 1/2 x 2	608	* 861-214	13.99	25	2.00	MOLD
1 1/2 x 3	608	* 861-215	16.16	25	3.00	MOLD
1 1/2 x 4	608	* 861-216	18.68	25	4.00	MOLD
1 1/2 x 5	608	* 861-217	21.55	25	5.00	MOLD
1 1/2 x 6	608	* 861-218	24.58	25	6.00	MOLD
1 1/2 x 8	608	* 861-219	29.24	25	8.00	FAB
1 1/2 x 10	608	* 861-220	33.79	25	10.00	FAB
1 1/2 x 12	608	* 861-221	36.31	25	12.00	FAB
2 x CL	608	* 861-251	17.12	25	2.00	MOLD
2 x 2 1/2	608	* 861-252	18.37	25	2.50	MOLD
2 x 3	608	* 861-253	20.21	25	3.00	MOLD
2 x 4	608	* 861-254	23.63	25	4.00	MOLD
2 x 5	608	* 861-255	27.67	25	5.00	MOLD
2 x 6	608	* 861-256	31.00	25	6.00	MOLD
2 x 8	608	* 861-257	37.83	25	8.00	FAB
2 x 10	608	* 861-258	44.79	25	10.00	FAB
2 x 12	608	* 861-259	51.21	25	12.00	FAB
2 1/2 x CL	608	* 861-291	52.19	10	2.50	FAB
2 1/2 x 4	608	* 861-295	67.93	10	4.00	FAB
2 1/2 x 3	608	* 861-292	60.11	10	3.00	FAB
2 1/2 x 5	608	* 861-296	76.73	10	5.00	FAB
2 1/2 x 6	608	* 861-297	85.99	10	6.00	FAB
2 1/2 x 8	608	* 861-298	104.24	10	8.00	FAB
2 1/2 x 10	608	* 861-299	122.18	10	10.00	FAB
2 1/2 x 12	608	* 861-300	140.41	10	12.00	FAB
3 x CL	608	* 861-338	62.42	10	2.63	FAB
3 x 3	608	* 861-340	69.45	10	3.00	FAB
3 x 4	608	* 861-341	79.41	10	4.00	FAB
3 x 5	608	* 861-342	90.75	10	5.00	FAB
3 x 6	608	* 861-343	101.93	10	6.00	FAB
3 x 8	608	* 861-344	124.65	10	8.00	FAB
3 x 10	608	* 861-345	147.36	10	10.00	FAB
3 x 12	608	* 861-346	169.95	10	12.00	FAB
4 x CL	608	* 861-422	102.44	10	2.88	FAB
4 x 4	608	* 861-423	107.84	10	4.00	FAB
4 x 5	608	* 861-425	119.99	10	5.00	FAB
4 x 6	608	* 861-426	133.56	10	6.00	FAB
4 x 8	608	* 861-427	162.09	5	8.00	FAB
4 x 10	608	* 861-428	192.47	5	10.00	FAB
4 x 12	608	* 861-429	221.94	5	12.00	FAB

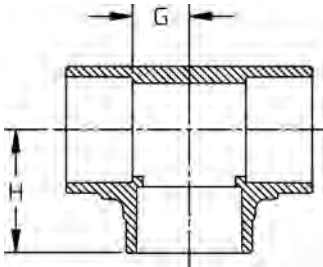
Schedule 80 PVC Low Pressure Fittings



Tee Low Pressure (SxSxS)

- 130 psi @ 73°F (8.96 bar @ 22.7°C)

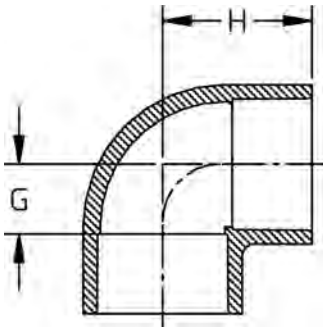
Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	G (inch)
10	B11	H801100LP	Call	1	10.83	5.77
12	B11	H801120LP	Call	1	13.38	6.91



90° Ell Low Pressure (S x S)

- 130 psi @ 73°F (8.96 bar @ 22.7°C)

Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	G (inch)
10	B11	H806100LP	Call	1	10.75	5.75
12	B11	H806120LP	Call	1	12.96	6.91

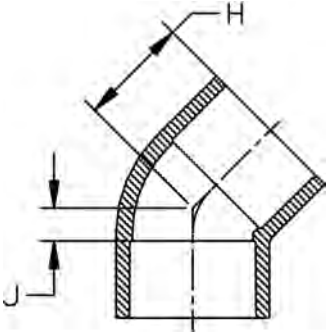


45° Ell Low Pressure (S x S)

- 130 psi @ 73°F (8.96 bar @ 22.7°C)



Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	J (inch)
10	B11	H817100LP	Call	1	7.50	2.50
12	B11	H817120LP	Call	1	9.00	3.00

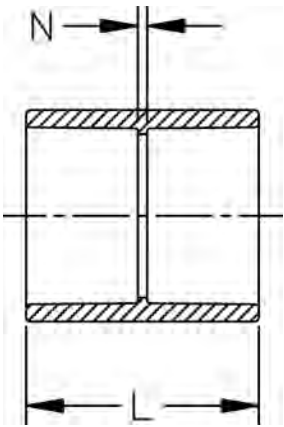


Coupling Low Pressure (S x S)

- 130 psi @ 73°F (8.96 bar @ 22.7°C)



Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	N (inch)
10	B11	H829100LP	Call	1	10.81	0.75
12	B11	H829120LP	Call	1	12.81	0.75

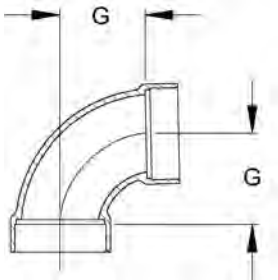


Schedule 80 PVC DWV Fittings



1/4 Bend Short Sweep (SxS)

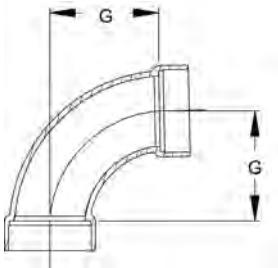
Size (inch)	P/L	Part No.	USD	Pack Qty	G (inch)
1 1/2	608	806-015SS	Call	4	1.75
2	608	806-020SS	Call	4	2.31
3	608	806-030SS	Call	1	3.06
4	608	806-040SS	Call	1	3.88



1/4 Bend Long Sweep (SxS) - FAB



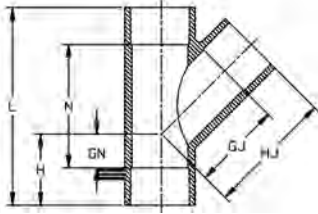
Size (inch)	P/L	Part No.	USD	Pack Qty	G (inch)
1 1/2	A33	806-015LSN	Call	4	4.13
2	A33	806-020LSN	Call	4	4.75
3	A33	806-030LSN	Call	1	7.00
4	A33	806-040LSN	Call	1	9.00



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" - 24" 100 psi @ 72°F (6.9 bar @ 22.7°C)

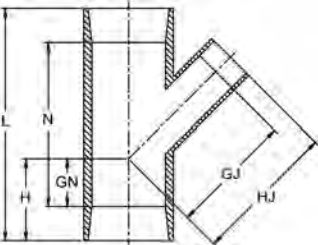


Size (inch)	P/L	Part No.	USD	Pack Qty	GJ (inch)	GN (inch)	H (inch)	HJ (inch)	L (inch)	N (inch)	Design
1 ½	608	* 870-015	39.09	20	2.79	1.20	2.60	4.18	6.80	4.02	SL
2	608	870-020	112.16	10	3.56	1.36	2.87	5.07	7.99	4.97	SL
2 ½	H02	* 870-025S	511.02	1	3.97	0.84	2.59	5.72	8.31	3.97	SL
3	608	870-030	360.54	4	4.91	1.82	3.73	6.83	10.45	6.62	SL
4	608	870-040	446.73	4	6.26	2.06	4.41	8.61	12.94	8.24	SL
6	608	870-060	610.15	2	8.38	1.85	4.90	11.44	16.50	10.39	HS
8	608	* 870-080	1,227.03	1	11.09	1.90	5.92	15.11	21.35	13.30	HS
10	A33	* 875-100N	1,483.64	1	19.75	5.50	11.25	24.75	31.75	21.75	FAB
12	A33	* 875-120N	1,885.77	1	22.63	6.50	12.50	28.63	37.50	25.50	FAB
14	A33	* 875-140N	3,149.51	1	25.75	7.00	14.00	32.75	41.75	27.75	FAB
16	A33	* 875-160N	4,137.26	1	28.88	7.75	16.00	36.88	47.25	31.25	FAB
18	A33	* 875-180N	4,638.43	1	32.50	8.50	17.50	41.50	53.00	35.00	FAB
20	A33	* 875-200N	6,196.05	1	35.50	9.50	19.50	45.50	58.75	38.75	FAB
24	A33	* 875-240N	8,246.15	1	42.00	11.00	23.00	54.00	70.00	46.00	FAB

Reducing 45° Wye (S x S x S)

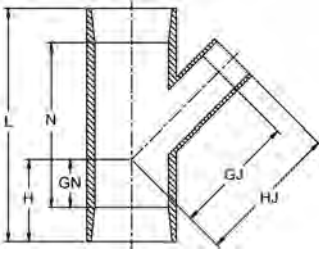


2" 235 psi @ 72°F (16.2 bar @ 22.7°C)
 3" - 6" 150 psi @ 72°F (10.3 bar @ 22.7°C)
 8" - 24" 100 psi @ 72°F (6.9 bar @ 22.7°C)



Size (inch)	P/L	Part No.	USD
2 x 1 ½	608	* 870-251FB	133.42
3 x 1 ½	608	* 870-337FB	420.24
3 x 2	608	* 870-338FB	420.24
4 x 2	608	* 870-420FB	528.35
4 x 3	608	* 870-422FB	528.35
6 x 2	608	* 870-528FB	452.39
6 x 3	608	* 870-530FB	575.28
6 x 4	608	870-532	465.00
8 x 3	608	* 870-580FB	1,524.89
8 x 4	608	870-582	1,605.15
8 x 6	608	* 870-585FB	1,497.32
10 x 4	A33	* 875-623N	1,094.78
10 x 6	A33	* 875-626N	1,245.77
10 x 8	A33	* 875-628N	1,440.75
12 x 4	A33	* 875-663N	1,381.48
12 x 6	A33	* 875-666N	1,575.54
12 x 8	A33	* 875-668N	1,726.04
12 x 10	A33	* 875-670N	1,829.14
14 x 4	A33	* 875-696N	1,709.67
14 x 6	A33	* 875-698N	1,809.20
14 x 8	A33	* 875-700N	1,850.93
14 x 10	A33	* 875-702N	2,066.55
14 x 12	A33	* 875-704N	2,342.23
16 x 4	A33	* 875-730N	1,862.02
16 x 6	A33	* 875-732N	1,870.09
16 x 8	A33	* 875-734N	2,110.55
16 x 10	A33	* 875-736N	2,375.94
16 x 12	A33	* 875-738N	2,588.67
16 x 14	A33	* 875-740N	2,997.84
18 x 4	A33	* 875-784N	3,342.69
18 x 6	A33	* 875-786N	3,774.49
18 x 8	A33	* 875-788N	3,914.69
18 x 10	A33	* 875-790N	4,207.55

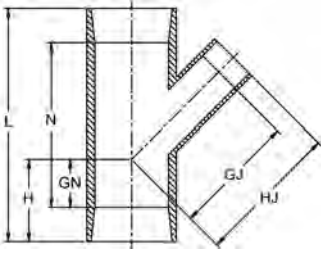
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Size (inch)	P/L	Part No.	USD
18 x 12	A33	* 875-792N	4,223.59
18 x 14	A33	* 875-794N	4,561.68
18 x 16	A33	* 875-796N	4,593.84
20 x 4	A33	* 875-814N	4,130.69
20 x 6	A33	* 875-816N	4,451.11
20 x 8	A33	* 875-818N	4,703.82
20 x 10	A33	* 875-820N	4,863.14
20 x 12	A33	* 875-822N	5,037.78
20 x 14	A33	* 875-824N	5,438.41
20 x 16	A33	* 875-826N	5,888.49
20 x 18	A33	* 875-828N	6,112.20
24 x 4	A33	* 875-904N	5,139.18
24 x 6	A33	* 875-906N	5,315.99
24 x 8	A33	* 875-908N	5,452.06
24 x 10	A33	* 875-910N	5,698.79
24 x 12	A33	* 875-912N	6,061.02
24 x 14	A33	* 875-914N	6,296.12
24 x 16	A33	* 875-916N	6,717.05
24 x 18	A33	* 875-918N	7,746.13
24 x 20	A33	* 875-920N	8,108.98

Pack Qty	GJ (inch)	GN (inch)	H (inch)	HJ (inch)	L (inch)	N (inch)	Design
10	3.96	1.36	2.87	5.37	7.99	4.97	BUSH
4	5.80	1.82	3.73	7.34	10.45	6.62	BUSH
4	5.77	1.82	3.73	7.33	10.45	6.62	BUSH
4	7.40	2.06	4.41	7.40	12.94	8.24	BUSH
4	7.03	2.06	4.41	9.00	12.94	8.24	BUSH
2	8.24	1.87	4.91	8.24	16.49	10.42	BUSH
2	7.88	1.87	4.91	9.84	16.49	10.42	BUSH
2	7.14	1.87	4.91	9.36	16.49	10.42	HS
1	10.23	0.41	4.43	12.20	15.98	7.95	BUSH
1	9.46	0.41	4.43	11.73	15.98	7.95	HS
1	12.78	1.90	5.92	15.76	21.35	13.30	BUSH
1	14.00	1.25	6.25	16.00	23.00	13.00	FAB
1	16.13	2.75	7.50	19.13	26.00	16.00	FAB
1	17.50	4.00	9.25	21.50	28.00	18.75	FAB
1	15.50	0.50	6.00	17.50	25.75	13.75	FAB
1	16.68	2.00	8.00	20.50	28.68	16.68	FAB
1	19.00	3.50	9.50	23.00	31.50	19.50	FAB
1	21.25	5.00	11.00	26.25	34.50	22.50	FAB
1	16.25	0.25	7.25	18.25	28.25	14.25	FAB
1	18.50	1.75	8.63	21.50	31.25	17.25	FAB
1	19.75	3.00	10.00	23.75	34.00	20.00	FAB
1	22.00	4.50	11.50	27.00	37.00	23.00	FAB
1	23.50	6.00	13.00	29.50	39.75	25.75	FAB
1	17.75	-0.75	7.50	19.75	31.00	15.00	FAB
1	19.88	1.00	9.00	22.88	34.00	18.00	FAB
1	21.25	2.50	10.25	25.25	36.75	20.75	FAB
1	23.50	4.00	12.00	28.50	39.75	23.75	FAB
1	25.00	5.50	14.25	31.00	42.75	26.75	FAB
1	27.25	6.25	14.25	34.25	44.50	28.50	FAB
1	19.00	-1.25	8.00	21.00	34.00	16.00	FAB
1	21.25	0.50	9.50	24.25	37.00	19.00	FAB
1	22.75	2.00	11.00	26.75	39.75	21.75	FAB
1	25.00	3.50	12.50	30.00	42.75	24.75	FAB
1	26.25	4.75	13.75	32.50	45.50	27.50	FAB
1	28.75	5.75	14.75	35.75	47.50	29.50	FAB
1	30.25	7.25	16.00	38.25	50.25	32.25	FAB
1	20.50	-1.75	8.50	22.50	36.75	16.75	FAB
1	22.75	-0.25	10.00	25.75	39.75	19.75	FAB
1	24.25	1.50	11.50	28.25	42.75	22.75	FAB
1	26.50	3.00	13.00	31.50	45.75	25.75	FAB

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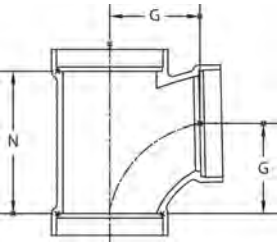


Pack Qty	GJ (inch)	GN (inch)	H (inch)	HJ (inch)	L (inch)	N (inch)	Design
1	28.00	4.25	14.25	34.00	48.50	28.50	FAB
1	30.25	5.25	15.00	37.25	50.25	30.25	FAB
1	31.75	6.50	16.50	39.75	53.00	33.00	FAB
1	34.00	8.00	18.00	43.00	56.00	36.00	FAB
1	23.25	-3.00	9.25	25.25	42.50	18.50	FAB
1	25.50	-1.50	10.75	28.50	45.50	21.54	FAB
1	27.00	0.00	12.00	31.00	48.25	24.25	FAB
1	29.25	1.75	13.50	34.25	51.25	27.25	FAB
1	30.50	3.25	15.00	36.50	54.25	30.25	FAB
1	33.00	4.00	16.00	40.00	56.00	32.00	FAB
1	34.50	5.50	17.50	42.50	58.75	34.75	FAB
1	36.75	6.75	18.75	45.75	61.50	37.50	FAB
1	38.25	8.25	20.25	48.25	64.50	40.50	FAB



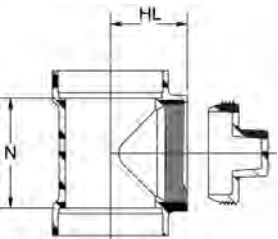
Sanitary Tee (SxSxS)

Size (inch)	P/L	Part No.	USD	Pack Qty	G (inch)	N (inch)
1 1/2	608	37R461501	Call	5	1.75	2.75
2	608	37R461502	Call	5	2.31	3.69
3	608	37R461503	Call	5	3.06	4.88
4	608	37R461504	Call	5	3.88	6.13

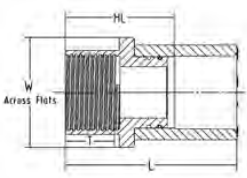


Cleanout Tee with Plug (SxSxFPT)

Size (inch)	P/L	Part No.	USD	Pack Qty	HL (inch)	N (inch)
1 1/2	608	37R461101	Call	2	2.07	1.80
2	608	37R461102	Call	2	2.35	2.32
3	608	37R461103	Call	2	3.51	3.63
4	608	37R461104	Call	2	4.07	4.25



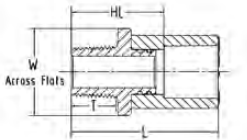
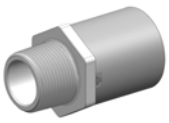
Schedule 80 PVC Metal Transition Fittings



PVC-to-316SS Female Adapter (SxFPT)

Size (inch)	P/L	Part No.	USD	Pack Qty	HL (inch)	L (inch)	T (inch)	W (inch)
½	A35	868-005	Call	25	1.49	2.38	0.84	1.25
¾	A35	868-007	Call	20	1.67	2.68	0.92	1.50
1	A35	868-010	Call	25	1.98	3.11	0.96	1.75
1 ¼	A35	868-012	Call	10	2.19	3.45	1.04	2.12
1 ½	A35	868-015	Call	10	2.35	3.73	1.04	2.50
2	A35	868-020	Call	5	2.63	4.14	1.29	3.00

PVC-to-316SS Male Adapter (SxMPT)



Size (inch)	P/L	Part No.	USD	Pack Qty	HL (inch)	L (inch)	T (inch)	W (inch)
½	A35	869-005	Call	50	1.49	2.38	0.70	1.25
¾	A35	869-007	Call	25	1.67	2.68	0.74	1.50
1	A35	869-010	Call	25	1.98	3.11	0.92	1.75
1 ¼	A35	869-012	Call	15	2.19	3.45	0.95	2.12
1 ½	A35	869-015	Call	15	2.35	3.73	0.99	2.50
2	A35	869-020	Call	5	2.64	4.14	1.03	3.00

*

Metal Union End Connectors Type 375 (316 SS)

150 psi @ 73°F (10.3 bar @ 22.7°C)
Union Sold Separately



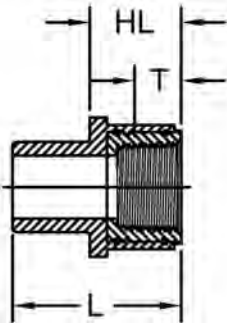
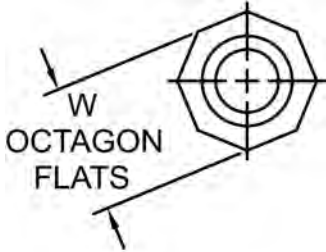
Size (inch)	P/L	Part No.	USD	Pack Qty
½	A35	* 37X003314	146.19	1
¾	A35	* 37X003315	190.39	1
1	A35	* 37X003316	215.36	1
1 ¼	A35	* 37X003317	444.98	1
1 ½	A35	* 37X003318	463.53	1
2	A35	* 37X003319	698.85	1

PVC-to-Brass Transition Fittings (SPG x FPT)

150 psi @ 73°F (10.3 bar @ 22.7°C)



Size (inch)	P/L	Part No.	USD	Pack Qty	HL (inch)	L (inch)	T (inch)	W (inch)
½	A35	878-005BR	27.66	25	1.02	1.75	0.70	1.27
¾	A35	878-007BR	39.74	15	1.07	2.07	0.74	1.52
1	A35	878-010BR	68.47	15	1.32	2.44	0.81	1.93
1 ¼	A35	878-012BR	112.77	15	1.38	2.49	0.85	2.29
1 ½	A35	878-015BR	148.14	10	1.44	2.74	0.87	2.60
2	A35	878-020BR	183.48	5	1.43	2.81	1.11	3.36

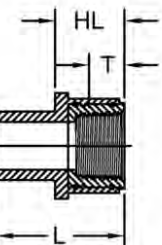
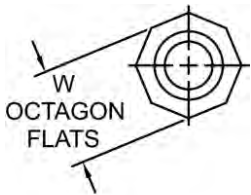


PVC-to-316 SS Transition Fittings (SPG x FPT)

150 psi @ 73°F (10.3 bar @ 22.7°C)



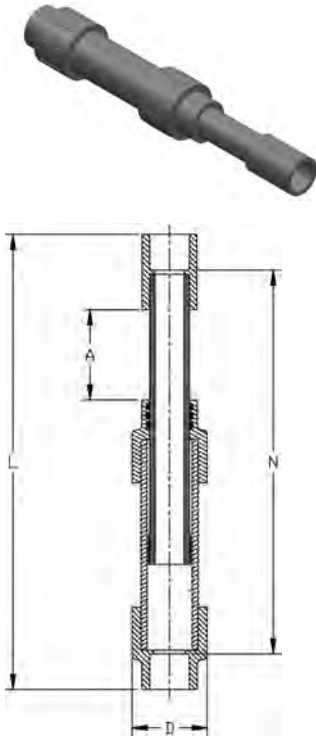
Size (inch)	P/L	Part No.	USD	Pack Qty	HL (inch)	L (inch)	T (inch)	W (inch)
½	A35	878-005SS	54.22	25	1.02	1.75	0.70	1.27
¾	A35	878-007SS	77.92	15	1.07	2.07	0.74	1.52
1	A35	878-010SS	132.58	15	1.32	2.44	0.81	1.93
1 ¼	A35	878-012SS	221.42	15	1.38	2.49	0.85	2.29
1 ½	A35	878-015SS	289.24	10	1.45	2.74	0.87	2.60
2	A35	878-020SS	371.04	5	1.43	2.81	1.11	3.36



Schedule 80 PVC Expansion Joints

Expansion Joint 6" Travel (S x S)

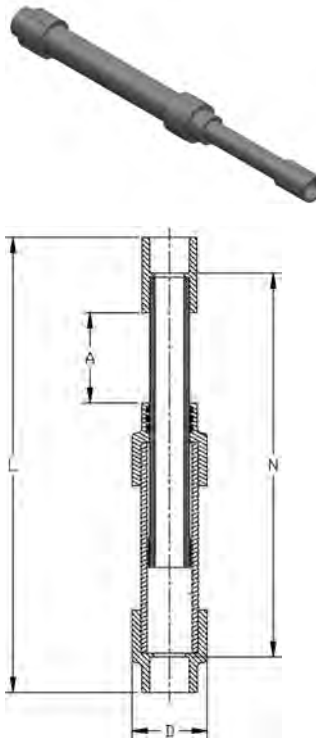
To order SxSPG add "P" to end of part number.
To order FxF add "F" to end of part number.



Size (inch)	P/L	EPDM Part No.	USD	FKM Part No.	USD	A (inch)	D (inch)	L (inch)	N (inch)
1/2	634	* 826-005X6	346.85	* 836-005X6	381.54	3.00	1.86	13.97	12.17
3/4	634	* 826-007X6	372.87	* 836-007X6	410.16	3.00	2.23	14.44	12.40
1	634	* 826-010X6	377.07	* 836-010X6	414.78	3.00	2.50	14.98	12.69
1 1/4	634	* 826-012X6	438.28	* 836-012X6	482.12	3.00	2.89	15.56	12.98
1 1/2	634	* 826-015X6	464.75	* 836-015X6	511.22	3.00	3.51	16.00	13.21
2	634	* 826-020X6	519.86	* 836-020X6	571.85	3.00	4.40	18.05	15.01
3	634	* 826-030X6	615.53	* 836-030X6	677.07	3.00	5.52	19.75	16.00
4	634	* 826-040X6	660.58	* 836-040X6	726.63	3.00	7.92	28.29	23.76
6	634	* 826-060X6	1,088.31	* 836-060X6	1,197.14	3.00	9.80	27.79	21.73
8	634	* 826-080X6	1,498.29	* 836-080X6	1,648.13	3.00	10.75	25.35	17.31
10	634	* 826-100X6	1,759.42	* 836-100X6	1,935.37	3.00	12.75	29.64	19.60

Expansion Joint 12" Travel (S x S)

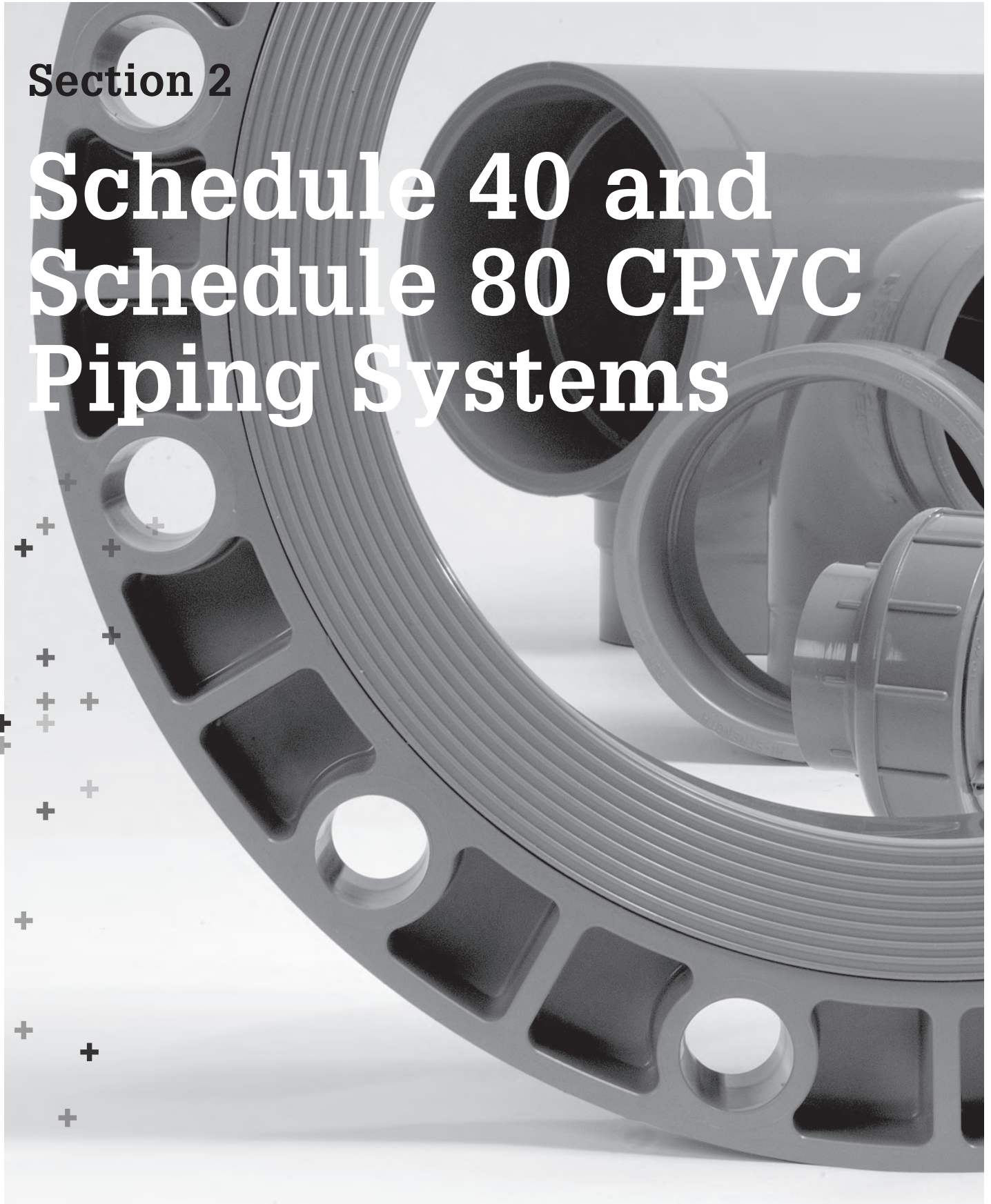
To order SxSPG add "P" to end of part number.
To order FxF add "F" to end of part number.



Size (inch)	P/L	EPDM Part No.	USD	FKM Part No.	USD	A (inch)	D (inch)	L (inch)	N (inch)
1/2	634	* 826-005X12	390.15	* 836-005X12	429.17	6.00	1.86	23.10	21.30
3/4	634	* 826-007X12	412.62	* 836-007X12	453.88	6.00	2.23	23.57	21.52
1	634	* 826-010X12	494.45	* 836-010X12	543.89	6.00	2.50	24.11	21.81
1 1/4	634	* 826-012X12	540.24	* 836-012X12	594.26	6.00	2.89	24.69	22.11
1 1/2	634	* 826-015X12	500.58	* 836-015X12	550.63	6.00	3.51	25.12	22.34
2	634	* 826-020X12	590.49	* 836-020X12	649.55	6.00	4.40	27.05	24.01
3	634	* 826-030X12	762.86	* 836-030X12	839.15	6.00	5.52	28.75	25.00
4	634	* 826-040X12	857.00	* 836-040X12	942.69	6.00	7.92	37.28	32.76
6	634	* 826-060X12	1,248.40	* 836-060X12	1,373.24	6.00	9.80	26.79	30.73
8	634	* 826-080X12	1,673.73	* 836-080X12	1,841.11	6.00	10.75	28.35	20.31
10	634	* 826-100X12	2,046.25	* 836-100X12	2,250.87	6.00	12.75	32.64	22.60

Section 2

Schedule 40 and Schedule 80 CPVC Piping Systems



Glossary

FPT	=	Female Pipe Thread
MPT	=	Male Pipe Thread
S	=	Tapered Socket
SPG	=	Spigot End (same dimension as pipe outside diameter)
*	=	Non-Returnable / Non-cancellable
^	=	40% Restocking Fee
HS	=	High Strength Design
SL	=	Streamline Design
BUSH	=	Assembled Fitting from Molded Components
FAB	=	Fabricated Fitting

The technical information given in this publication implies no warranty of any kind and is subject to change without notice. Please consult our Terms and Conditions of Sale.

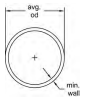
For complete technical information, please consult the GF Harvel Engineering and Installation Guide available online at www.gfpiping.com/resource.html [see "Technical Docs"] or by calling (800) 854-4090.

For more information about any of our product lines, please call (800) 854-4090.



Schedule 40 CPVC Pressure Pipe

45



Schedule 80 CPVC Pressure Pipe

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Schedule 80 CPVC Pressure Fittings

47



Schedule 80 CPVC DWV Fittings

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Schedule 80 CPVC Metal Transition Fittings

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Schedule 80 CPVC Expansion Joints

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Specifications, Standards and Tolerances

Specifications and Standards

NSF/ANSI Standard 14

NSF/ANSI Standard 61

ASTM D 1784 : Material CPVC Type IV, Grade I Gray (cell classification 23447) – Pipe & Fittings

ASTM F 441 : CPVC Schedule 40 and Schedule 80 Pipe

ASTM F 439 : CPVC Schedule 80 Socket & Threaded Fittings

ASTM F 437 : CPVC Schedule 80 Threaded Fittings

ASTM F 1970 : CPVC Schedule 80 Unions

ANSI B16.5 : Flange Bolt Hole Patterns

ANSI B1.20.1 : CPVC Schedule 80 NPT Threads

CSA B137.6 : CPVC Schedule 80 Pipe (1¼"–2½" only)

ULC S102.2 : CPVC Schedule 40 Pipe (½"–24"); Schedule 80 Pipe (½"–12")

Molded Dimension Tolerances

A Piston Position; Expansion Joints : ± 0.03

D Outside Diameter : ± 0.06

G, G1 Intersections of centerlines to bottom of socket; 90° Ells, Tees : up to 4" ± 0.03 ; 6" and above ± 0.06

GJ, GN Intersections of centerlines to bottom of socket; 45° Wyes : up to 4" ± 0.03 ; 6" and above ± 0.06

H, HJ, HN Intersections of centerlines to face of fitting; 90° Ells, 45° Ells, Tees, 45° Wyes : up to 4" ± 0.03 ; 6" and above ± 0.06

HL Socket Bottom to Face of Fitting : up to 4" ± 0.03 ; 6" and above ± 0.06

J Intersections of centerlines to bottom of socket; 45° & 30° Ells : up to 4" ± 0.03 ; 6" and above ± 0.06

L Overall Length of fitting : ± 0.06

N Socket Bottom to Socket Bottom; Couplings, Unions : ± 0.06

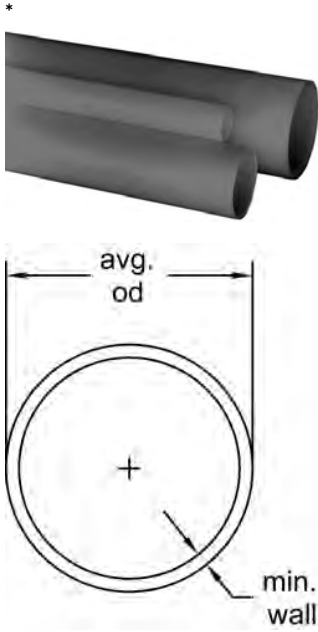
N1 Socket Bottom to Face of Flange : ± 0.06

R Thickness on Plugs, Flanges : ± 0.03

T, T1 Effective Thread Length : Reference Only

W Height of Cap : ± 0.06

Schedule 40 CPVC Pressure Pipe



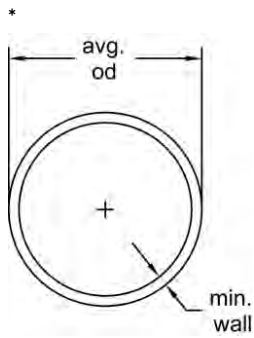
Harvel Corzan® Plain End Pipe - 20 Ft Lengths

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

Size (inch)	P/L	Plain End Part No.	USD
¼	H23	*H0400025CG2000	2.27
⅜	H23	*H0400038CG2000	2.89
½	H23	*H0400050CG2000	2.27
¾	H23	*H0400075CG2000	3.02
1	H23	*H0400100CG2000	4.44
1 ¼	H23	*H0400125CG2000	5.99
1 ½	H23	*H0400150CG2000	7.19
2	H23	*H0400200CG2000	9.64
2 ½	H23	*H0400250CG2000	15.20
3	H23	*H0400300CG2000	19.91
3 ½	H23	*H0400350CG2000	26.62
4	H23	*H0400400CG2000	28.34
5	H23	*H0400500CG2000	43.17
6	H23	*H0400600CG2000	50.39
8	H23	*H0400800CG2000	85.13
10	H23	*H0401000CG2000	145.57
12	H23	*H0401200CG2000	192.29
14	H23	*H0401400CG2000	231.49
16	H23	*H0401600CG2000	302.22
18	H23	*H0401800CG2000	415.02
20	H23	*H0402000CG2000	487.49
24	H23	*H0402400CG2000	678.33

Size (inch)	Lift Qty. (20ft Lgths) (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
¼	5700	0.540	0.088	0.091	780
⅜	5700	0.675	0.091	0.122	620
½	5700	0.840	0.109	0.180	600
¾	5260	1.050	0.113	0.239	480
1	4280	1.315	0.133	0.352	450
1 ¼	2360	1.660	0.140	0.475	370
1 ½	2060	1.900	0.145	0.568	330
2	1660	2.375	0.154	0.761	280
2 ½	1080	2.875	0.203	1.201	300
3	840	3.500	0.216	1.572	260
3 ½	680	4.000	0.226	1.905	240
4	520	4.500	0.237	2.239	220
5	400	5.563	0.258	3.095	190
6	340	6.625	0.280	3.945	180
8	220	8.625	0.322	5.958	160
10	80	10.750	0.365	8.458	140
12	60	12.750	0.406	11.172	130
14	60	14.000	0.437	13.262	130
16	60	16.000	0.500	17.312	130
18	40	18.000	0.562	0.586	130
20	40	20.000	0.593	26.530	120
24	40	24.000	0.687	36.916	120

Schedule 80 CPVC Pressure Pipe



Harvel Corzan® Plain End Pipe - 20 Ft Lengths

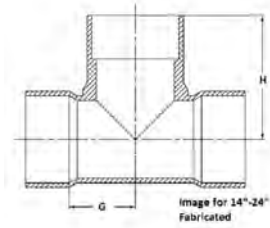
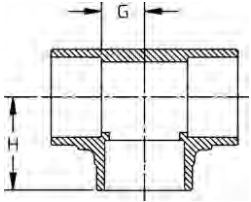
- Max Water Pressure at 73°F (22.7°C) with solvent-cemented joints

Size (inch)	P/L	Plain End Part No.	USD
¼	H06	* H0800025CG2000	2.64
¾	H06	* H0800038CG2000	3.62
½	H06	* H0800050CG2000	2.65
¾	H06	* H0800075CG2000	3.61
1	H06	* H0800100CG2000	5.31
1 ¼	H06	* H0800125CG2000	7.39
1 ½	H06	* H0800150CG2000	8.96
2	H06	* H0800200CG2000	12.38
2 ½	H06	* H0800250CG2000	18.80
3	H06	* H0800300CG2000	23.31
3 ½	H06	* H0800350CG2000	36.44
4	H06	* H0800400CG2000	33.98
5	H06	* H0800500CG2000	53.54
6	H06	* H0800600CG2000	65.35
8	H06	* H0800800CG2000	111.44
10	H06	* H0801000CG2000	180.75
12	H06	* H0801200CG2000	245.06
14	H06	* H0801400CG2000	378.55
16	H06	* H0801600CG2000	487.75
18	H06	* H0801800CG2000	594.65
20	H06	* H0802000CG2000	749.01
24	H06	* H0802400CG2000	1,062.69

Size (inch)	Lift Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
¼	5700	0.540	0.119	0.112	1130
¾	5700	0.675	0.126	0.154	920
½	5700	0.840	0.147	0.225	850
¾	5260	1.050	0.154	0.305	690
1	4280	1.315	0.179	0.449	630
1 ¼	2360	1.660	0.191	0.618	520
1 ½	2060	1.900	0.200	0.751	470
2	1660	2.375	0.218	1.040	400
2 ½	1080	2.875	0.276	1.584	420
3	840	3.500	0.300	2.124	370
3 ½	680	4.000	0.318	2.607	350
4	520	4.500	0.337	3.105	320
5	400	5.563	0.375	4.343	290
6	340	6.625	0.432	5.929	280
8	220	8.625	0.500	9.051	250
10	80	10.750	0.593	13.429	230
12	60	12.750	0.687	18.458	230
14	60	14.000	0.750	22.224	220
16	60	16.000	0.843	28.557	220
18	40	18.000	0.937	35.745	220
20	40	20.000	1.031	45.022	220
24	40	24.000	1.218	63.878	210

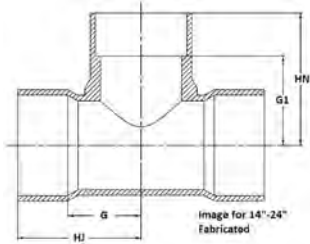
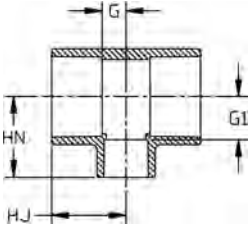
Schedule 80 CPVC Pressure Fittings

Tee (S x S x S)



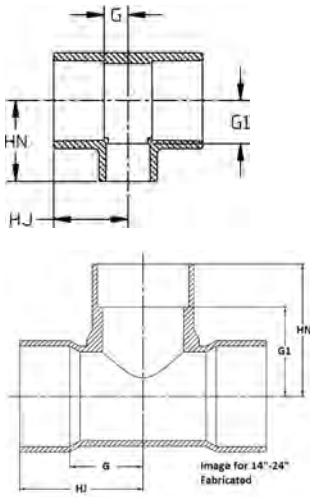
Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	G (inch)	Design
½	625	9801-005	15.68	25	1.41	0.51	SL
¾	625	9801-007	15.97	15	1.60	0.58	SL
1	625	9801-010	19.57	20	1.85	0.71	SL
1 ¼	625	9801-012	41.27	5	2.17	0.91	SL
1 ½	625	9801-015	47.28	5	2.43	1.04	SL
2	625	9801-020	52.62	5	2.81	1.30	SL
2 ½	625	9801-025	133.97	5	3.31	1.55	SL
3	625	9801-030	133.97	5	3.71	1.81	SL
4	625	9801-040	178.28	5	4.60	2.33	SL
5	H02	* 9801-050S	440.76	1	5.78	3.16	SL
6	625	9801-060	463.98	2	6.53	3.51	SL
8	625	9801-080	1,329.06	1	8.66	4.58	SL
10	B10	9801-100	2,629.29	1	10.79	5.78	SL
12	B10	9801-120	4,063.49	1	12.96	6.94	SL
14	A34	* 9801-140N	6,971.20	1	19.50	10.88	FAB
16	A34	* 9801-160N	9,958.83	1	22.75	12.13	FAB
18	A34	* 9801-180N	11,673.80	1	26.00	13.38	FAB
20	A34	* 9801-200N	17,663.91	1	28.25	14.63	FAB
24	A34	* 9801-240N	24,793.38	1	34.50	17.13	FAB

Reducing Tee (S x S x S)



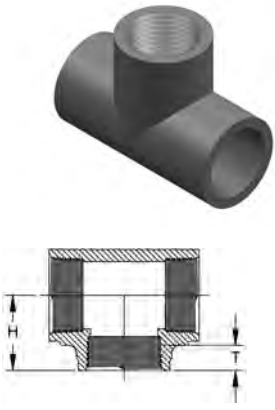
Size (inch)	P/L	Part No.	USD	Pack Qty	HJ (inch)	HN (inch)	G (inch)	G1 (inch)	Design
¾ x ½	625	9801-101	35.00	25	1.62	1.62	0.60	0.72	SL
1 x ½	625	9801-130	40.35	25	1.87	1.64	0.72	0.74	SL
1 x ¾	625	9801-131	40.35	25	1.86	1.89	0.72	0.75	SL
1 ¼ x ½	625	*9801-166FB	92.51	20	1.99	2.35	0.73	1.47	BUSH
1 ¼ x ¾	625	*9801-167FB	78.95	20	1.99	2.35	0.73	1.33	BUSH
1 ¼ x 1	625	9801-168	50.03	20	2.01	2.05	0.73	0.91	SL
1 ½ x ½	625	9801-209	82.46	5	1.92	1.91	0.53	1.03	SL
1 ½ x ¾	625	9801-210	82.46	5	1.99	2.07	0.60	1.05	SL
1 ½ x 1	625	9801-211	82.46	5	2.12	2.17	0.72	1.03	SL
1 ½ x 1 ¼	625	*9801-212FB	82.46	5	2.44	2.74	1.04	1.47	BUSH
2 x ½	625	9801-247	98.23	5	1.99	2.16	0.54	1.28	SL
2 x ¾	625	9801-248	98.23	5	2.22	2.31	0.60	1.30	SL
2 x 1	625	9801-249	98.23	5	2.24	2.42	0.72	1.27	SL
2 x 1 ¼	625	*9801-250FB	136.09	5	2.81	3.11	1.30	1.84	BUSH
2 x 1 ½	625	9801-251	98.23	5	2.54	2.66	1.03	1.27	SL
2 ½ x ½	625	*9801-287FB	112.80	5	3.05	3.35	1.28	2.44	BUSH
2 ½ x ¾	625	*9801-288FB	112.80	5	3.05	3.35	1.28	2.33	BUSH
2 ½ x 1	625	*9801-289FB	112.80	5	3.05	3.36	1.28	2.22	BUSH
2 ½ x 1 ¼	625	*9801-290FB	112.80	5	3.05	3.34	1.28	2.07	BUSH
2 ½ x 1 ½	625	*9801-291FB	112.80	5	3.05	3.35	1.28	1.94	BUSH
2 ½ x 2	625	9801-292	116.75	5	3.05	3.05	1.28	1.54	SL
3 x ½	625	*9801-333FB	248.28	5	3.20	3.68	1.30	2.77	BUSH
3 x ¾	625	*9801-334FB	248.28	5	3.20	3.68	1.30	2.66	BUSH
3 x 1	625	*9801-335FB	248.28	5	3.20	3.69	1.30	2.55	BUSH
3 x 1 ¼	625	*9801-336FB	240.39	5	3.20	3.67	1.30	2.40	BUSH
3 x 1 ½	625	*9801-337FB	240.39	5	3.20	3.68	1.30	2.27	BUSH
3 x 2	625	9801-338	200.42	5	3.20	3.39	1.30	1.87	SL
3 x 2 ½	625	*9801-339FB	200.42	5	3.73	4.07	1.81	2.17	BUSH
4 x ½	625	*9801-415FB	304.80	5	3.52	4.19	1.27	3.28	BUSH
4 x ¾	625	*9801-416FB	304.80	5	3.52	4.19	1.27	3.17	BUSH
4 x 1	625	*9801-417FB	304.80	5	3.53	4.12	1.26	3.00	BUSH
4 x 1 ¼	625	*9801-418FB	304.80	5	3.52	4.18	1.27	2.91	BUSH
4 x 1 ½	625	*9801-419FB	304.80	5	3.52	4.19	1.27	2.78	BUSH
4 x 2	625	9801-420	253.32	5	3.54	3.87	1.27	2.37	SL
4 x 2 ½	625	*9801-421FB	340.87	5	4.14	4.62	1.85	2.73	BUSH
4 x 3	625	9801-422	253.32	5	4.13	4.26	1.85	2.35	SL
5 x 2	H02	*9801-486S	736.29	1	5.83	6.59	3.20	5.09	SL
5 x 4	H02	*9801-490S	649.18	1	5.81	6.16	3.16	3.91	SL
6 x ½	625	*9801-523FB	871.32	1	6.56	7.42	3.56	6.52	BUSH
6 x ¾	625	*9801-524FB	855.99	1	6.56	7.43	3.49	6.41	BUSH
6 x 1	625	*9801-525FB	871.32	2	6.56	7.44	3.49	6.29	BUSH
6 x 1 ¼	625	*9801-526FB	871.32	2	6.56	7.42	3.49	6.15	BUSH
6 x 1 ½	625	*9801-527FB	827.75	1	6.56	7.42	3.49	6.02	BUSH
6 x 2	625	9801-528	Call	2	4.45	5.25	1.43	3.74	SL
6 x 2 ½	625	*9801-529FB	893.74	2	6.56	7.52	3.49	5.62	BUSH
6 x 3	625	*9801-530FB	809.55	2	6.56	7.21	3.49	5.25	BUSH
6 x 4	625	9801-532	715.45	2	6.57	6.80	3.49	4.47	HS
6 x 5	H04	*9801-533FS	719.32	1	9.00	9.50	5.75	6.50	FAB
8 x 4	625	*9801-582FB	834.87	1	7.63	8.09	3.59	5.84	BUSH
8 x 5	625	*9801-583FB	1,544.54	1	7.58	8.01	3.49	5.37	FAB
8 x 6	625	9801-585	1,313.35	1	7.65	7.54	3.55	4.63	SL
10 x 3	A34	*9801-621N	1,176.81	1	10.75	11.50	5.75	9.50	FAB
10 x 4	A34	*9801-623N	1,243.93	1	10.75	11.50	5.75	9.50	FAB
10 x 6	B10	*9801-626FB	2,313.80	1	10.83	11.43	5.78	8.33	BUSH
10 x 6	A34	*9801-626N	1,363.52	1	11.88	12.50	6.88	9.50	FAB
10 x 8	B10	*9801-628FB	3,785.35	1	10.83	11.46	5.78	7.36	BUSH
10 x 8	A34	*9801-628N	1,581.55	1	13.00	13.50	8.00	9.50	FAB
12 x 2	A34	*9801-659N	1,482.01	1	12.00	12.75	6.00	10.75	FAB
12 x 3	A34	*9801-661N	1,634.58	1	12.00	12.75	6.00	10.75	FAB
12 x 4	A34	*9801-663N	1,702.12	1	12.00	12.75	6.00	10.75	FAB
12 x 6	A34	*9801-666N	1,846.93	1	13.13	13.75	7.13	10.75	FAB

table continued on the next page



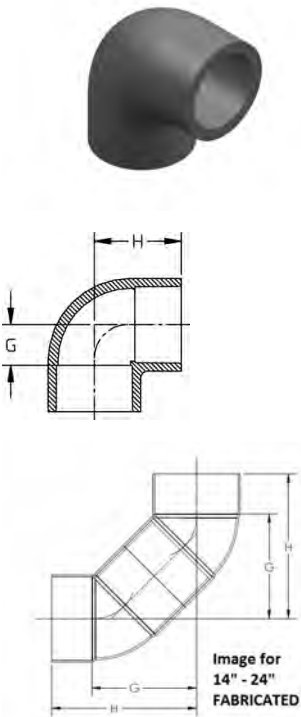
Size (inch)	P/L	Part No.	USD	Pack Qty	HJ (inch)	HN (inch)	G (inch)	G1 (inch)	Design
12 x 8	B10	* 9801-668FB	3,615.38	1	12.99	13.67	6.94	9.58	BUSH
12 x 8	A34	* 9801-668N	2,067.66	1	14.13	14.75	8.13	10.75	FAB
12 x 10	B10	* 9801-670FB	5,517.16	1	12.99	13.68	6.94	8.57	BUSH
12 x 10	A34	* 9801-670N	2,386.29	1	15.13	15.75	9.13	10.75	FAB
14 x 2	A34	* 9801-692N	3,061.72	1	13.13	13.50	6.13	11.50	FAB
14 x 3	A34	* 9801-694N	4,572.42	1	13.13	13.50	6.13	11.50	FAB
14 x 4	A34	* 9801-696N	4,572.42	1	13.13	13.50	6.13	11.50	FAB
14 x 6	A34	* 9801-698N	4,979.67	1	14.25	14.50	7.25	11.50	FAB
14 x 8	A34	* 9801-700N	5,372.43	1	15.25	15.50	8.25	11.50	FAB
14 x 10	A34	* 9801-702N	5,876.38	1	16.25	16.50	9.25	11.50	FAB
14 x 12	A34	* 9801-704N	6,460.35	1	17.25	18.50	10.25	12.50	FAB
16 x 2	A34	* 9801-726N	4,340.84	1	14.38	14.75	6.38	12.75	FAB
16 x 3	A34	* 9801-728N	4,524.68	1	14.38	14.75	6.38	12.75	FAB
16 x 4	A34	* 9801-730N	4,692.77	1	14.38	14.75	6.38	12.75	FAB
16 x 6	A34	* 9801-732N	6,111.43	1	15.50	15.75	7.50	12.75	FAB
16 x 8	A34	* 9801-734N	6,831.66	1	16.50	16.75	8.50	12.75	FAB
16 x 10	A34	* 9801-736N	7,394.75	1	17.50	17.75	9.50	12.75	FAB
16 x 12	A34	* 9801-738N	8,270.97	1	18.50	19.75	10.50	13.75	FAB
16 x 14	A34	* 9801-740N	9,189.12	1	19.13	20.75	11.13	13.75	FAB
18 x 4	A34	* 9801-784N	7,428.57	1	15.63	16.00	6.63	14.00	FAB
18 x 6	A34	* 9801-786N	7,976.42	1	16.75	17.00	7.75	14.00	FAB
18 x 8	A34	* 9801-788N	8,564.68	1	17.75	18.00	8.75	14.00	FAB
18 x 10	A34	* 9801-790N	9,205.00	1	18.75	19.00	9.75	14.00	FAB
18 x 12	A34	* 9801-792N	9,843.24	1	19.75	21.00	10.75	15.00	FAB
18 x 14	A34	* 9801-794N	10,387.98	1	20.38	22.00	11.38	15.00	FAB
18 x 16	A34	* 9801-796N	10,967.81	1	21.38	24.00	12.38	16.00	FAB
20 x 4	A34	* 9801-814N	12,136.33	1	16.88	17.25	6.88	15.25	FAB
20 x 6	A34	* 9801-816N	14,441.93	1	18.00	18.25	8.00	15.25	FAB
20 x 8	A34	* 9801-818N	14,911.02	1	19.00	19.25	9.00	15.25	FAB
20 x 10	A34	* 9801-820N	16,208.16	1	20.00	20.25	10.00	15.25	FAB
20 x 12	A34	* 9801-822N	16,994.88	1	21.00	22.25	11.00	16.25	FAB
20 x 14	A34	* 9801-824N	18,933.89	1	21.63	23.25	11.63	16.25	FAB
20 x 16	A34	* 9801-826N	20,453.08	1	22.63	25.25	12.63	17.25	FAB
20 x 18	A34	* 9801-828N	21,729.12	1	23.63	27.25	13.63	18.25	FAB
24 x 4	A34	* 9801-904N	15,040.37	1	19.38	19.50	7.38	17.50	FAB
24 x 6	A34	* 9801-906N	16,221.15	1	20.50	20.50	8.50	17.50	FAB
24 x 8	A34	* 9801-908N	16,607.93	1	21.50	21.50	9.50	17.50	FAB
24 x 10	A34	* 9801-910N	17,504.21	1	22.50	22.50	10.50	17.50	FAB
24 x 12	A34	* 9801-912N	18,398.45	1	23.50	24.50	11.50	18.50	FAB
24 x 14	A34	* 9801-914N	19,993.59	1	24.13	25.50	12.13	18.50	FAB
24 x 16	A34	* 9801-916N	23,480.63	1	25.13	27.50	13.13	19.50	FAB
24 x 18	A34	* 9801-918N	26,102.87	1	26.13	30.50	14.13	20.50	FAB
24 x 20	A34	* 9801-920N	28,990.51	1	27.13	32.50	15.13	20.50	FAB
10 x 2	A34	* 9801-619N	873.28	1	10.75	11.50	5.75	9.50	FAB

Tee (FPT x FPT x FPT)



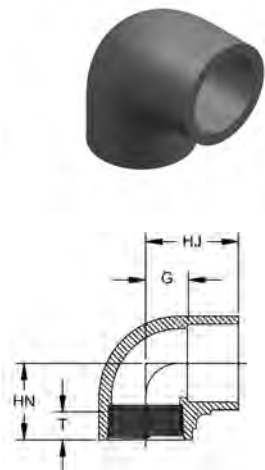
Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	T (inch)	Design
¼	625	* 9805-002	36.86	50	0.94	0.59	HS
⅜	625	* 9805-003	36.86	50	1.01	0.60	HS
½	625	^ 9805-005	34.86	25	1.26	0.76	HS
¾	625	^ 9805-007	50.21	15	1.36	0.72	HS
1	625	^ 9805-010	54.08	15	1.79	0.99	HS
1 ¼	625	^ 9805-012	54.40	10	1.93	1.01	HS
1 ½	625	^ 9805-015	57.12	10	2.08	1.03	HS
2	625	^ 9805-020	63.45	5	2.39	1.06	HS
2 ½	625	^ 9805-025	311.93	5	2.87	1.35	HS
3	625	^ 9805-030	361.92	5	3.52	1.65	HS
4	625	^ 9805-040	857.40	5	4.07	1.72	HS

90° Ell (S x S)



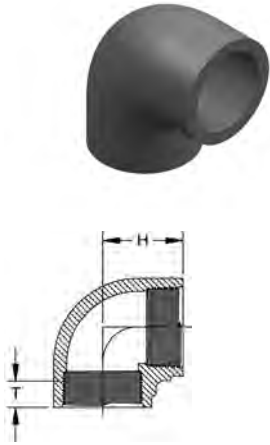
Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	G (inch)	Design
¼	625	* 9806-002	18.03	50	0.96	0.35	HS
⅜	H02	* 9806-003S	18.03	50	1.17	0.41	HS
½	625	9806-005	6.69	25	1.41	0.51	SL
¾	625	9806-007	8.54	25	1.60	0.57	SL
1	625	9806-010	13.57	10	1.83	0.68	SL
1 ¼	625	9806-012	29.35	10	2.18	0.90	SL
1 ½	625	9806-015	32.73	10	2.43	1.04	SL
2	625	9806-020	39.51	10	2.80	1.27	SL
2 ½	625	9806-025	90.98	5	3.33	1.53	SL
3	625	9806-030	103.01	5	3.73	1.81	SL
4	625	9806-040	185.53	5	4.63	2.32	SL
5	H02	* 9806-050s	354.17	1	5.75	3.00	SL
6	625	9806-060	372.81	2	6.56	3.53	SL
8	625	9806-080	912.31	1	8.68	4.55	SL
10	B10	9806-100	2,438.03	1	10.79	5.77	SL
12	B10	9806-120	3,298.66	1	12.92	6.87	SL
14	A34	* 9806-140N	6,638.85	1	26.00	19.00	FAB
16	A34	* 9806-160N	9,063.14	1	29.00	21.00	FAB
18	A34	* 9806-180N	11,352.92	1	33.50	24.50	FAB
20	A34	* 9806-200N	13,050.45	1	35.75	25.75	FAB
24	A34	* 9806-240N	23,624.19	1	43.00	31.00	FAB

90° Ell (S x FPT)



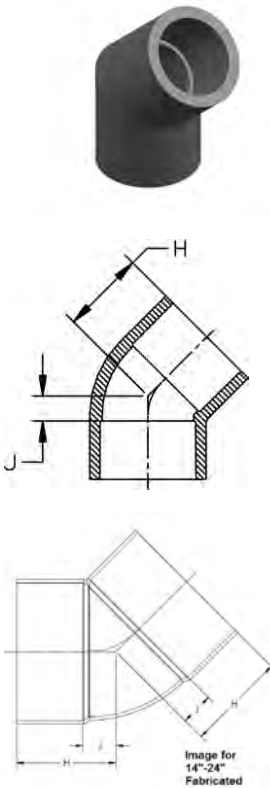
Size (inch)	P/L	Part No.	USD	Pack Qty	HJ (inch)	HN (inch)	G (inch)	T (inch)	Design
½	625	9807-005	17.66	25	1.40	1.31	0.50	0.81	HS
¾	625	9807-007	20.74	25	1.59	1.36	0.58	0.72	HS
1	625	9807-010	27.16	10	1.81	1.70	0.67	1.00	HS
1 ¼	625	9807-012	Call	10	2.15	1.92	0.89	1.03	HS
1 ½	625	9807-015	Call	10	2.39	2.05	1.01	1.05	HS
2	625	9807-020	Call	5	2.77	2.36	1.24	1.09	HS
3	625	9807-030	Call	5	3.73	3.47	1.83	1.66	HS

90° Ell (FPT x FPT)



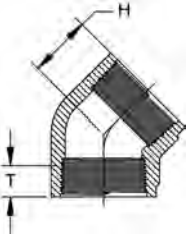
Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	T (inch)	Design
¼	625	* 9808-002	18.97	50	0.94	0.61	HS
⅜	625	* 9808-003	18.97	50	1.00	0.63	HS
½	625	^ 9808-005	10.41	25	1.27	0.78	HS
¾	625	^ 9808-007	15.57	20	1.36	0.72	HS
1	625	^ 9808-010	21.85	10	1.71	1.00	HS
1 ¼	625	^ 9808-012	42.11	10	1.92	1.01	HS
1 ½	625	^ 9808-015	45.32	10	2.08	1.06	HS
2	625	^ 9808-020	60.74	5	2.36	1.08	HS
2 ½	625	^ 9808-025	188.47	5	3.36	1.51	HS
3	625	^ 9808-030	202.09	5	3.53	1.63	HS
4	625	^ 9808-040	316.24	5	4.17	1.75	HS

45° Ell (S x S)



Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	J (inch)	Design
¼	H02	* 9817-002S	25.49	25	0.81	0.18	SL
⅜	H02	* 9817-003S	25.49	25	0.97	0.19	SL
½	625	9817-005	8.19	25	1.22	0.30	SL
¾	625	9817-007	11.83	20	1.29	0.28	SL
1	625	9817-010	18.80	25	1.48	0.32	SL
1 ¼	625	9817-012	36.93	15	1.78	0.47	SL
1 ½	625	9817-015	37.92	10	1.88	0.45	SL
2	625	9817-020	42.53	5	2.16	0.60	SL
2 ½	625	9817-025	86.91	5	2.56	0.79	SL
3	625	9817-030	111.66	5	2.67	0.77	SL
4	625	9817-040	153.29	5	3.31	1.04	SL
5	H02	* 9817-050S	448.62	1	4.00	1.38	SL
6	625	9817-060	472.24	2	4.86	1.77	SL
8	625	9817-080	982.52	2	6.15	2.07	SL
10	B10	9817-100	1,864.44	1	7.51	2.46	SL
12	B10	9817-120	3,280.17	1	9.00	2.96	SL
14	A34	* 9817-140N	3,307.00	1	10.25	3.50	FAB
16	A34	* 9817-160N	4,826.79	1	11.75	3.75	FAB
18	A34	* 9817-180N	7,469.56	1	13.25	4.25	FAB
20	A34	* 9817-200N	9,881.66	1	14.75	4.75	FAB
24	A34	* 9817-240N	11,917.98	1	17.75	5.75	FAB

45° EII (FPT x FPT)



Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	T (inch)	Design
¼	625	* 9819-002	25.22	50	0.69	0.59	HS
¾	H02	* 9819-003S	25.22	50	0.86	0.68	HS
½	625	^ 9819-005	22.60	25	1.02	0.76	SL
¾	625	^ 9819-007	24.83	20	1.14	0.81	SL
1	625	^ 9819-010	27.33	25	1.33	0.97	SL
1 ¼	625	^ 9819-012	46.67	15	1.42	1.01	SL
1 ½	625	^ 9819-015	46.67	10	1.47	1.07	SL
2	625	^ 9819-020	61.63	5	1.74	2.37	SL
3	625	^ 9819-030	168.28	5	2.43	1.66	SL
4	625	^ 9819-040	264.69	5	2.78	1.76	SL

Coupling (S x S)

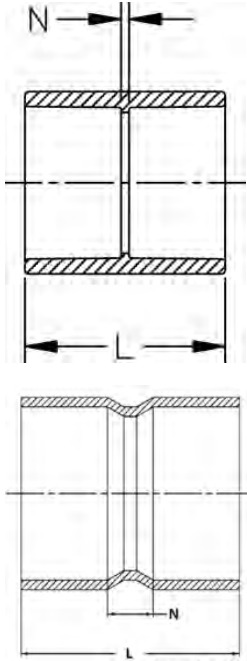


Image for 14"-24"
Fabricated

Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	N (inch)	Design
¼	H02	* 9829-002S	19.21	50	1.38	0.06	SL
¾	H02	* 9829-003S	19.21	50	1.65	0.11	SL
½	625	9829-005	7.06	25	1.93	0.12	SL
¾	625	9829-007	9.88	20	2.18	0.12	SL
1	625	9829-010	13.31	25	2.41	0.12	SL
1 ¼	625	9829-012	19.94	25	2.67	0.13	SL
1 ½	625	9829-015	25.08	10	2.94	0.15	SL
2	625	9829-020	29.16	5	3.18	0.13	SL
2 ½	625	9829-025	64.89	5	3.77	0.19	SL
3	625	9829-030	70.52	5	4.04	0.26	SL
4	625	9829-040	92.41	5	4.80	0.26	SL
5	H02	* 9829-050S	206.77	1	5.47	0.22	SL
6	625	9829-060	217.65	2	6.40	0.36	SL
8	625	9829-080	588.22	2	8.40	0.35	SL
10	B10	9829-100	739.91	1	10.77	0.75	SL
12	B10	9829-120	866.62	1	12.82	0.75	SL
14	A34	* 9829-140N	2,432.64	1	17.75	3.75	FAB
16	A34	* 9829-160N	3,735.46	1	20.25	4.25	FAB
18	A34	* 9829-180N	4,620.47	1	22.75	4.75	FAB
20	A34	* 9829-200N	6,472.02	1	25.25	5.25	FAB
24	A34	* 9829-240N	8,088.06	1	30.25	6.25	FAB

Reducing Coupling (S x S)

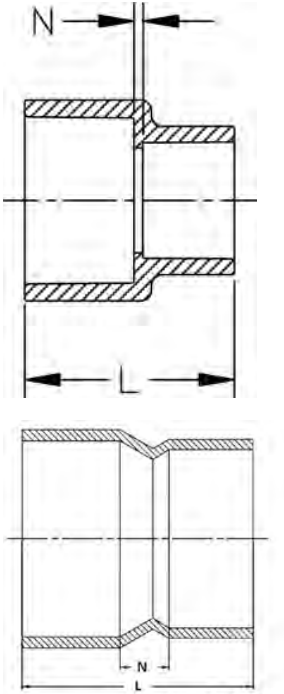


Image for 14"-24"
Fabricated

Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	N (inch)	Design
¾ x ½	625	9829-101	18.49	25	2.13	0.13	HS
1 x ½	625	9829-130	26.38	25	2.17	0.12	HS
1 x ¾	625	9829-131	26.38	25	2.26	0.11	HS
1 ¼ x ¾	625	*9829-167FB	60.41	15	2.94	0.66	BUSH
1 ¼ x 1	625	*9829-168FB	57.39	15	2.52	0.10	BUSH
1 ½ x ½	625	*9829-209FB	59.93	15	2.94	0.64	BUSH
1 ½ x ¾	625	*9829-210FB	59.93	15	2.50	0.54	BUSH
1 ½ x 1	625	9829-211	59.93	15	2.65	0.11	HS
1 ½ x 1 ¼	625	9829-212	59.93	20	2.82	0.09	HS
2 x ½	625	*9829-247FB	79.24	5	3.44	0.87	BUSH
2 x ¾	625	*9829-248FB	79.24	5	3.39	0.77	BUSH
2 x 1	625	9829-249	79.24	5	3.15	0.32	HS
2 x 1 ¼	625	9829-250	79.24	5	3.05	0.14	HS
2 x 1 ½	625	9829-251	79.24	5	3.06	0.07	HS
2 ½ x 1 ½	625	9829-291	90.23	5	3.36	0.14	HS
2 ½ x 2	625	*9829-292FB	90.23	5	4.08	0.66	BUSH
3 x 1	625	*9829-335FB	212.01	5	4.56	1.53	BUSH
3 x 1 ½	625	*9829-337FB	229.99	5	4.58	1.15	BUSH
3 x 2	625	9829-338	182.32	5	3.61	0.17	HS
3 x 2 ½	625	*9829-339FB	183.08	5	4.42	0.63	BUSH
4 x 2	625	*9829-420FB	217.48	5	4.94	1.08	BUSH
4 x 2 ½	625	*9829-421FB	217.48	5	4.92	0.65	BUSH
4 x 3	625	9829-422	217.48	5	4.38	0.22	HS
5 x 4	H04	*9829-490FS	135.36	1	7.75	2.50	FAB
6 x 4	625	9829-532	494.03	2	10.17	3.46	HS
6 x 5	H04	*9829-533FS	308.92	1	8.94	2.69	FAB
8 x 4	625	*9829-582FB	896.47	2	9.81	3.53	BUSH
8 x 5	H04	*9829-583FS	543.41	1	14.69	7.44	FAB
8 x 6	625	9829-585	855.99	2	9.18	2.11	HS
10 x 4	A34	*9829-623N	781.34	1	17.00	10.00	FAB
10 x 6	B10	*9829-626FB	1,331.18	1	11.42	3.29	BUSH
10 x 6	A34	*9829-626N	Call	1	13.00	5.00	FAB
10 x 8	B10	*9829-628FB	1,331.18	1	11.45	2.32	BUSH
10 x 8	A34	*9829-628N	Call	1	12.75	3.75	FAB
12 x 4	A34	*9829-663N	1,739.09	1	26.25	18.25	FAB
12 x 6	A34	*9829-666N	1,617.43	1	20.50	11.50	FAB
12 x 8	B10	*9829-668FB	1,450.38	1	13.54	3.41	BUSH
12 x 8	A34	*9829-668N	Call	1	15.50	5.50	FAB
12 x 10	B10	*9829-670FB	1,450.38	1	13.24	2.13	BUSH
12 x 10	A34	*9829-670N	Call	1	15.00	4.00	FAB
14 x 4	A34	*9829-696N	4,141.68	1	13.00	3.00	FAB
14 x 6	A34	*9829-698N	3,498.35	1	31.00	21.00	FAB
14 x 8	A34	*9829-700N	3,201.22	1	21.00	10.00	FAB
14 x 10	A34	*9829-702N	3,130.99	1	17.00	5.00	FAB
14 x 12	A34	*9829-704N	1,877.95	1	16.50	3.50	FAB
16 x 4	A34	*9829-730N	6,149.27	1	16.50	3.50	FAB
16 x 6	A34	*9829-732N	5,561.53	1	16.50	4.50	FAB
16 x 8	A34	*9829-734N	4,884.54	1	18.05	5.00	FAB
16 x 10	A34	*9829-736N	4,612.01	1	19.00	5.10	FAB
16 x 12	A34	*9829-738N	3,887.47	1	19.25	5.25	FAB
16 x 14	A34	*9829-740N	2,951.08	1	19.50	4.50	FAB
18 x 4	A34	*9829-784N	13,308.62	1	48.50	37.50	FAB
18 x 6	A34	*9829-786N	12,440.55	1	36.00	24.00	FAB
18 x 8	A34	*9829-788N	11,779.16	1	42.50	29.50	FAB
18 x 10	A34	*9829-790N	10,655.51	1	33.50	19.50	FAB
18 x 12	A34	*9829-792N	8,770.78	1	22.00	7.00	FAB
18 x 14	A34	*9829-794N	5,937.51	1	22.25	6.25	FAB
18 x 16	A34	*9829-796N	4,334.27	1	21.75	4.75	FAB
20 x 4	A34	*9829-814N	10,403.01	1	60.50	48.50	FAB
20 x 6	A34	*9829-816N	9,578.27	1	55.50	42.50	FAB
20 x 8	A34	*9829-818N	9,155.00	1	56.25	42.25	FAB

table continued on the next page

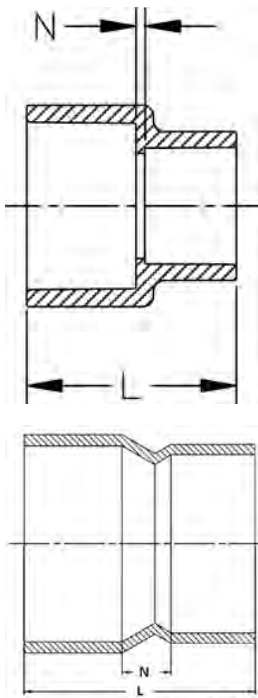
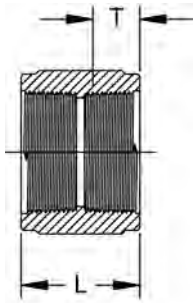


Image for 14"-24"
Fabricated

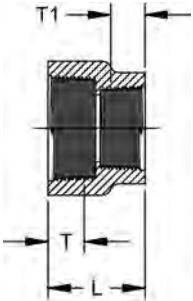
Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	N (inch)	Design
20 x 10	A34	* 9829-820N	8,833.89	1	47.25	32.25	FAB
20 x 12	A34	* 9829-822N	7,642.13	1	37.00	21.00	FAB
20 x 14	A34	* 9829-824N	7,621.95	1	37.25	20.25	FAB
20 x 16	A34	* 9829-826N	7,001.54	1	24.50	6.50	FAB
20 x 18	A34	* 9829-828N	6,488.06	1	24.00	5.00	FAB
24 x 4	A34	* 9829-904N	21,904.79	1	66.00	52.00	FAB
24 x 6	A34	* 9829-906N	21,571.27	1	61.00	46.00	FAB
24 x 8	A34	* 9829-908N	21,103.80	1	52.00	36.00	FAB
24 x 10	A34	* 9829-910N	20,594.80	1	52.75	35.75	FAB
24 x 12	A34	* 9829-912N	18,735.06	1	42.50	24.50	FAB
24 x 14	A34	* 9829-914N	17,280.62	1	42.75	23.75	FAB
24 x 16	A34	* 9829-916N	15,748.85	1	42.25	22.25	FAB
24 x 18	A34	* 9829-918N	14,385.46	1	29.50	8.50	FAB
24 x 20	A34	* 9829-920N	12,946.79	1	29.25	7.25	FAB

Coupling (FPT x FPT)



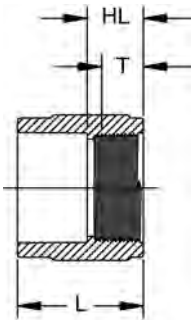
Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	T (inch)	Design
¼	625	* 9830-002	24.16	50	1.29	0.61	HS
⅜	625	* 9830-003	24.16	50	1.35	0.62	HS
½	625	^ 9830-005	18.80	25	1.68	0.77	SL
¾	625	^ 9830-007	30.37	25	1.75	0.80	SL
1	625	^ 9830-010	34.47	25	2.13	0.99	SL
1 ¼	625	^ 9830-012	36.57	25	2.19	1.03	SL
1 ½	625	^ 9830-015	39.29	10	2.22	1.03	SL
2	625	^ 9830-020	46.32	5	2.29	1.08	SL
2 ½	625	^ 9830-025	Call	5	3.33	1.51	SL
3	625	^ 9830-030	96.75	5	3.53	1.65	SL
4	625	^ 9830-040	197.22	5	3.76	1.75	SL

Reducing Coupling (FPT x FPT)



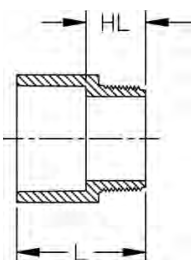
Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	T (inch)	T1 (inch)	Design
3/8 x 1/4	625	* 9830-052	Call	50	1.29	0.60	0.59	HS
1/2 x 1/4	625	* 9830-072	31.86	50	1.45	0.75	0.59	HS
1/2 x 3/8	625	* 9830-073	31.86	50	1.46	0.74	0.60	HS
3/4 x 1/2	625	^ 9830-101	30.80	25	1.69	0.78	0.78	HS
1 x 1/2	625	^ 9830-130	33.62	25	1.84	0.98	0.77	BUSH
1 x 3/4	625	^ 9830-131	40.56	25	1.88	0.98	0.80	HS
1 1/4 x 3/4	625	^ 9830-167	Call	25	1.90	1.00	0.79	HS
1 1/2 x 1	625	^ 9830-211	78.93	20	2.06	1.02	0.95	HS
2 x 1 1/2	625	^ 9830-251	Call	20	2.18	1.05	1.02	BUSH

Female Adapter (S x FPT)



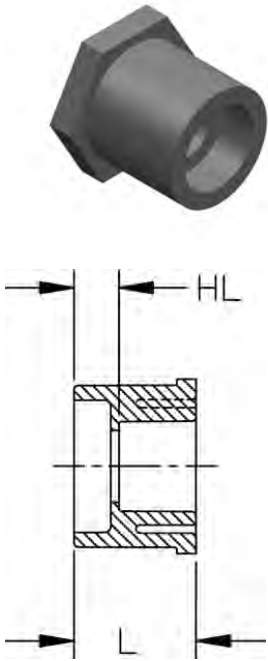
Size (inch)	P/L	Part No.	USD	Pack Qty	HL (inch)	L (inch)	T (inch)	Design
1/4	625	* 9835-002	24.39	50	0.75	1.43	0.58	HS
1/2	625	9835-005	11.43	25	0.91	1.80	0.75	HS
3/4	625	9835-007	11.33	20	0.95	1.96	0.79	HS
1	625	9835-010	27.88	25	1.11	2.27	0.98	HS
1 1/4	625	9835-012	28.55	10	1.18	2.44	1.02	HS
1 1/2	625	9835-015	33.26	10	1.19	2.59	1.03	HS
2	625	9835-020	57.33	5	1.25	2.76	1.06	HS
2 1/2	H02	* 9835-025S	109.96	5	1.62	3.25	1.41	HS
3	625	9835-030	225.62	5	1.91	3.80	1.65	HS
4	625	9835-040	375.53	5	2.02	4.29	1.74	HS
6	A34	* 9835-060N	808.24	1	4.50	7.50	1.51	FAB
8	A34	* 9835-080N	878.51	1	4.25	8.50	1.71	FAB
10	A34	* 9835-100N	1,103.74	1	5.00	10.00	2.00	FAB
12	A34	* 9835-120N	1,321.28	1	6.00	11.13	2.13	FAB

Male Adapter (S x MPT)



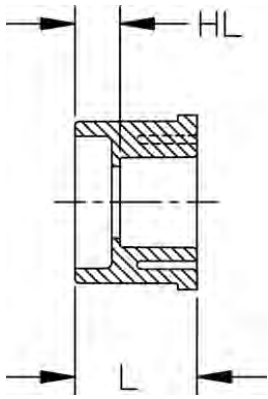
Size (inch)	P/L	Part No.	USD	Pack Qty	HL (inch)	L (inch)	Design
1/2	625	9836-005	9.14	50	0.94	1.85	SL
3/4	625	9836-007	11.14	25	1.05	2.03	HS
1	625	9836-010	18.77	25	1.22	2.38	HS
1 1/4	625	9836-012	27.66	15	1.28	2.56	HS
1 1/2	625	9836-015	37.38	15	1.30	2.69	HS
2	625	9836-020	50.72	5	1.32	2.83	HS
2 1/2	H02	* 9836-025S	138.28	5	1.83	3.66	HS
3	625	9836-030	185.82	5	1.99	3.90	HS
4	625	9836-040	314.15	5	2.15	4.40	HS
6	A34	* 9836-060N	667.67	1	3.25	6.25	FAB
8	A34	* 9836-080N	759.04	1	3.50	7.50	FAB
10	A34	* 9836-100N	899.61	1	4.18	9.18	FAB
12	A34	* 9836-120N	988.53	1	4.63	10.63	FAB

Flush Style Reducer Bushing (SPG x S)



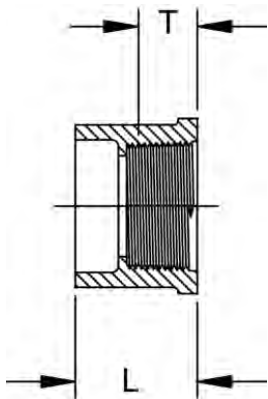
Size (inch)	P/L	Part No.	USD	Pack Qty	HL (inch)	L (inch)	Design
1/2 x 1/4	625	* 9837-072	15.63	50	0.47	1.15	FLUSH
1/2 x 3/8	625	* 9837-073	15.63	50	0.33	1.09	FLUSH
3/4 x 1/2	625	9837-101	7.54	50	0.42	1.30	FLUSH
1 x 1/2	625	9837-130	11.71	50	0.55	1.44	FLUSH
1 x 3/4	625	9837-131	11.71	50	0.41	1.43	FLUSH
1 1/4 x 1/2	625	9837-166	31.09	25	0.66	1.55	FLUSH
1 1/4 x 3/4	625	9837-167	31.09	25	0.56	1.57	FLUSH
1 1/4 x 1	625	9837-168	31.09	25	0.44	1.59	FLUSH
1 1/2 x 1/2	625	9837-209	35.16	25	0.78	1.69	FLUSH
1 1/2 x 3/4	625	9837-210	35.16	25	0.67	1.68	FLUSH
1 1/2 x 1	625	9837-211	35.16	25	0.55	1.69	FLUSH
1 1/2 x 1 1/4	625	9837-212	35.16	25	0.44	1.72	FLUSH
2 x 1/2	625	9837-247	45.37	10	0.91	1.81	FLUSH
2 x 3/4	625	9837-248	45.37	10	0.79	1.82	FLUSH
2 x 1	625	9837-249	45.37	10	0.68	1.83	FLUSH
2 x 1 1/4	625	9837-250	45.37	10	0.54	1.81	FLUSH
2 x 1 1/2	625	9837-251	45.37	10	0.40	1.81	FLUSH
2 1/2 x 1 1/2	625	9837-291	55.26	5	0.79	2.31	FLUSH
2 1/2 x 2	625	9837-292	55.26	5	0.47	2.10	FLUSH
3 x 1	625	9837-335	84.19	5	1.27	2.42	FLUSH
3 x 1 1/4	A34	* 9837-336FB	Call	5	1.43	2.71	FAB
3 x 1 1/2	625	9837-337	84.19	5	0.89	2.43	FLUSH
3 x 2	625	9837-338	84.19	5	0.86	2.42	FLUSH
3 x 2 1/2	625	9837-339	84.19	5	0.38	2.27	FLUSH
4 x 2	625	9837-420	93.08	5	1.14	2.70	FLUSH
4 x 2 1/2	625	* 9837-421FB	Call	5	1.40	2.96	BUSH
4 x 3	625	9837-422	93.08	5	0.77	2.74	FLUSH
6 x 3/4	625	* 9837-524FB	Call	2	1.79	4.38	BUSH
6 x 1	625	* 9837-525FB	Call	2	1.79	4.10	BUSH
6 x 1 1/2	625	* 9837-527FB	Call	2	1.79	4.10	BUSH
6 x 2	625	* 9837-528FB	199.71	2	1.13	4.03	BUSH
6 x 2 1/2	625	* 9837-529FB	Call	2	1.79	3.95	BUSH
6 x 3	625	9837-530	199.71	2	1.74	3.65	FLUSH
6 x 4	625	9837-532	198.31	2	1.42	3.67	FLUSH
6 x 5	H02	* 9837-534S	231.19	1	0.88	3.53	FLUSH
8 x 1 1/2	625	* 9837-577FB	817.93	1	1.56	5.66	BUSH
8 x 2	625	* 9837-578FB	817.93	1	1.56	5.59	BUSH
8 x 3	625	* 9837-580FB	Call	1	1.56	5.15	BUSH
8 x 4	625	* 9837-582FB	817.93	1	1.56	5.15	BUSH
8 x 5	625	* 9837-583FB	Call	1	2.44	5.09	FAB
8 x 6	625	9837-585	652.85	1	1.69	4.66	FLUSH
10 x 2	B10	* 9837-619FB	Call	1	2.57	6.66	BUSH
10 x 3	B10	* 9837-621FB	Call	1	2.57	6.15	BUSH
10 x 4	B10	* 9837-623FB	1,434.29	1	4.01	6.26	BUSH
10 x 6	B10	9837-626	1,155.48	1	2.59	5.69	FLUSH
10 x 8	B10	9837-628	1,155.48	1	1.62	5.72	FLUSH
12 x 3	B10	* 9837-662FB	Call	1	1.63	7.78	BUSH
12 x 4	B10	* 9837-663FB	2,916.57	1	1.63	7.78	BUSH
12 x 6	B10	* 9837-666FB	1,385.24	1	4.26	7.35	BUSH
12 x 8	02	9837-668	1,456.77	1	2.66	6.76	FLUSH
12 x 10	B10	9837-670	1,043.09	1	1.66	6.77	FLUSH
14 x 4	A34	* 9837-696N	4,241.83	1	5.50	7.50	FAB
14 x 6	A34	* 9837-698N	3,656.57	1	4.50	7.50	FAB
14 x 8	A34	* 9837-700N	2,549.23	1	3.50	7.50	FAB
14 x 10	A34	* 9837-702N	2,069.86	1	2.50	7.50	FAB
14 x 12	A34	* 9837-704N	1,499.96	1	1.50	7.50	FAB
16 x 4	A34	* 9837-730N	6,461.12	1	6.50	8.50	FAB
16 x 6	A34	* 9837-732N	5,764.71	1	5.50	8.50	FAB
16 x 8	A34	* 9837-734N	5,388.39	1	4.50	8.50	FAB
16 x 10	A34	* 9837-736N	4,308.07	1	3.50	8.50	FAB
16 x 12	A34	* 9837-738N	2,191.67	1	2.50	8.50	FAB

table continued on the next page



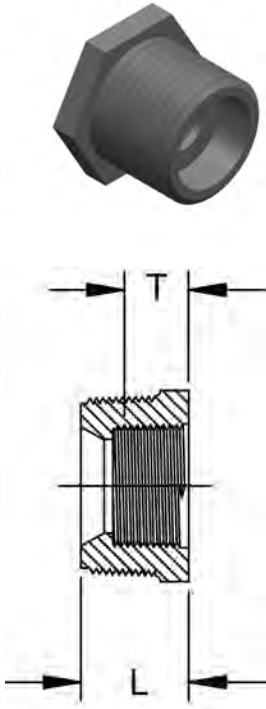
Size (inch)	P/L	Part No.	USD	Pack Qty	HL (inch)	L (inch)	Design
16 x 14	A34	* 9837-740N	2,087.04	1	1.50	8.50	FAB
18 x 4	A34	* 9837-784N	11,101.47	1	7.50	9.50	FAB
18 x 6	A34	* 9837-786N	8,899.85	1	6.50	9.50	FAB
18 x 8	A34	* 9837-788N	6,385.08	1	5.50	9.50	FAB
18 x 10	A34	* 9837-790N	5,737.36	1	4.50	9.50	FAB
18 x 12	A34	* 9837-792N	4,874.77	1	3.50	9.50	FAB
18 x 14	A34	* 9837-794N	4,828.37	1	2.50	9.50	FAB
18 x 16	A34	* 9837-796N	2,329.98	1	1.50	9.50	FAB
20 x 4	A34	* 9837-814N	15,342.72	1	8.50	10.50	FAB
20 x 6	A34	* 9837-816N	12,416.06	1	7.50	10.50	FAB
20 x 8	A34	* 9837-818N	8,991.81	1	6.50	10.50	FAB
20 x 10	A34	* 9837-820N	9,111.45	1	5.50	10.50	FAB
20 x 12	A34	* 9837-822N	10,772.13	1	4.50	10.50	FAB
20 x 14	A34	* 9837-824N	8,857.40	1	3.50	10.50	FAB
20 x 16	A34	* 9837-826N	7,261.41	1	2.50	10.50	FAB
20 x 18	A34	* 9837-828N	4,081.46	1	1.50	10.50	FAB
24 x 4	A34	* 9837-904N	22,991.20	1	10.50	12.50	FAB
24 x 6	A34	* 9837-906N	19,504.79	1	9.50	12.50	FAB
24 x 8	A34	* 9837-908N	14,808.20	1	8.50	12.50	FAB
24 x 10	A34	* 9837-910N	14,238.22	1	7.50	12.50	FAB
24 x 12	A34	* 9837-912N	17,128.12	1	6.50	12.50	FAB
24 x 14	A34	* 9837-914N	16,041.88	1	5.50	12.50	FAB
24 x 16	A34	* 9837-916N	15,855.13	1	4.50	12.50	FAB
24 x 18	A34	* 9837-918N	14,797.24	1	3.50	12.50	FAB
24 x 20	A34	* 9837-920N	12,908.47	1	2.50	12.50	FAB

Flush Style Reducer Bushing (SPG x FPT)



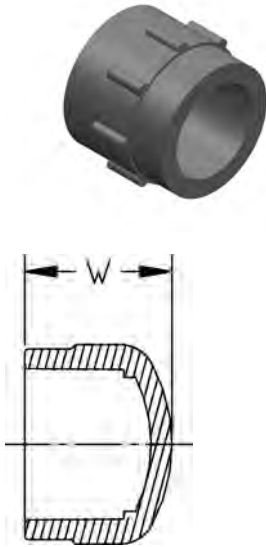
Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	T (inch)	Design
½ x ¼	625	* 9838-072	16.80	50	1.14	0.61	FLUSH
½ x ⅜	625	* 9838-073	16.80	50	1.13	0.61	FLUSH
¾ x ¼	625	* 9838-098	19.14	50	1.21	0.60	FLUSH
¾ x ½	625	9838-101	8.22	50	1.28	0.77	FLUSH
1 x ½	625	9838-130	10.43	50	1.42	0.76	FLUSH
1 x ¾	625	9838-131	10.43	50	1.41	0.81	FLUSH
1 ¼ x ½	625	9838-166	33.67	15	1.56	0.75	FLUSH
1 ¼ x ¾	625	9838-167	33.67	15	1.56	0.79	FLUSH
1 ¼ x 1	625	9838-168	33.67	15	1.56	0.99	FLUSH
1 ½ x ½	625	9838-209	41.47	15	1.68	0.76	FLUSH
1 ½ x ¾	625	9838-210	41.47	15	1.69	0.79	FLUSH
1 ½ x 1	625	9838-211	41.47	15	1.68	0.99	FLUSH
1 ½ x 1 ¼	625	9838-212	41.47	15	1.69	1.02	FLUSH
2 x ½	625	9838-247	57.02	10	1.80	0.77	FLUSH
2 x ¾	625	9838-248	57.02	10	1.80	0.80	FLUSH
2 x 1	625	9838-249	57.02	10	1.80	0.99	FLUSH
2 x 1 ¼	625	9838-250	57.02	10	1.81	1.02	FLUSH
2 x 1 ½	625	9838-251	57.02	10	1.88	1.04	FLUSH
2 ½ x 1 ½	625	9838-291	90.60	5	2.24	1.07	FLUSH
2 ½ x 2	625	9838-292	90.60	5	2.12	1.10	FLUSH
3 x 2	625	9838-338	201.97	5	2.42	1.07	FLUSH
4 x 2	625	9838-420	411.54	5	2.71	1.10	FLUSH
4 x 3	625	9838-422	411.54	5	2.75	1.62	FLUSH

Flush Style Reducer Bushing (MPT x FPT)



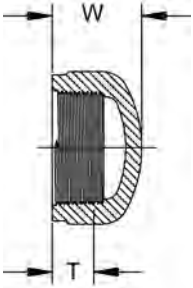
Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	T (inch)	Style
3/8 x 1/4	625	^ 9839-052	23.06	50	0.80	0.60	FLUSH
1/2 x 1/4	625	^ 9839-072	23.06	50	0.95	0.60	FLUSH
1/2 x 3/8	625	^ 9839-073	23.06	50	0.96	0.61	FLUSH
3/8 x 1/4	625	^ 9839-098	Call	50	1.01	0.61	FLUSH
3/4 x 3/8	625	^ 9839-099	25.40	50	1.02	0.61	FLUSH
3/4 x 1/2	625	^ 9839-101	10.12	50	1.08	0.75	FLUSH
1 x 1/4	625	^ 9839-128	Call	25	1.23	0.58	FLUSH
1 x 1/2	625	^ 9839-130	17.04	25	1.24	0.76	FLUSH
1 x 3/4	625	^ 9839-131	17.04	25	1.28	0.80	FLUSH
1 1/4 x 1/2	625	^ 9839-166	Call	25	1.29	0.76	FLUSH
1 1/4 x 3/4	625	^ 9839-167	Call	25	1.29	0.79	FLUSH
1 1/4 x 1	625	^ 9839-168	33.58	25	1.30	1.00	FLUSH
1 1/2 x 3/4	625	^ 9839-210	40.77	25	1.33	0.78	FLUSH
1 1/2 x 1	625	^ 9839-211	40.77	25	1.34	0.98	FLUSH
1 1/2 x 1 1/4	625	^ 9839-212	40.45	25	1.33	1.02	FLUSH
2 x 1/2	625	^ 9839-247	Call	10	1.44	0.76	FLUSH
2 x 3/4	625	^ 9839-248	Call	10	1.44	0.80	FLUSH
2 x 1	625	^ 9839-249	45.09	10	1.42	0.97	FLUSH
2 x 1 1/4	625	^ 9839-250	45.09	10	1.43	1.01	FLUSH
2 x 1 1/2	625	^ 9839-251	45.09	10	1.35	1.02	FLUSH
3 x 2	625	9839-338	Call	5	2.02	1.09	FLUSH
4 x 2	625	^ 9839-420	Call	5	2.07	1.10	FLUSH
4 x 3	625	^ 9839-422	Call	5	2.06	1.60	FLUSH

Cap (S)



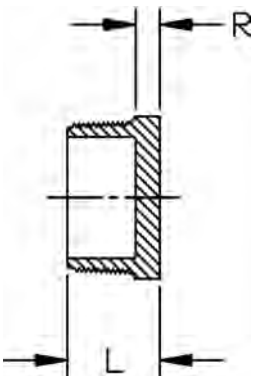
Size (inch)	P/L	Part No.	USD	Pack Qty	W (inch)	Design
1/4	625	* 9847-002	Call	50	0.96	HS
3/8	625	* 9847-003	Call	50	1.11	HS
1/2	625	9847-005	11.01	50	1.30	HS
3/4	625	9847-007	15.68	25	1.46	HS
1	625	9847-010	27.76	25	1.66	HS
1 1/4	625	9847-012	30.37	15	1.89	HS
1 1/2	625	9847-015	30.37	10	2.08	HS
2	625	9847-020	32.03	5	2.32	HS
2 1/2	625	9847-025	107.83	5	2.61	HS
3	625	9847-030	118.20	5	3.06	HS
4	625	9847-040	120.15	5	3.69	HS
5	H04	* 9847-050FS	226.58	2	4.44	FAB
6	625	9847-060	397.56	2	4.86	HS
8	625	9847-080	1,206.46	2	6.25	SL
10	B10	9847-100	1,007.94	1	7.92	SL
12	B10	9847-120	1,104.68	1	9.37	SL
14	A34	* 9847-140N	3,388.44	1	5.75	FAB
16	A34	* 9847-160N	4,983.55	1	7.00	FAB
18	A34	* 9847-180N	7,781.13	1	8.25	FAB
20	A34	* 9847-200N	11,233.27	1	8.75	FAB
24	A34	* 9847-240N	23,884.33	1	10.25	FAB

Cap (FPT)



Size (inch)	P/L	Part No.	USD	Pack Qty	W (inch)	T (inch)	Design
¼	625	* 9848-002	15.07	50	0.93	0.54	HS
⅜	625	* 9848-003	15.07	50	0.94	0.62	HS
½	625	^ 9848-005	12.23	50	1.14	0.74	HS
¾	625	^ 9848-007	20.25	25	1.25	0.80	HS
1	625	^ 9848-010	28.35	25	1.51	0.97	HS
1 ¼	625	^ 9848-012	50.55	15	1.59	1.00	HS
1 ½	625	^ 9848-015	51.79	10	1.70	1.01	HS
2	625	^ 9848-020	74.60	5	1.82	1.06	HS
2 ½	625	^ 9848-025	Call	5	2.61	1.45	HS
3	H02	^ 9848-030S	226.46	1	2.48	1.83	HS
4	625	^ 9848-040	Call	5	3.16	1.80	HS

Plug (MPT)

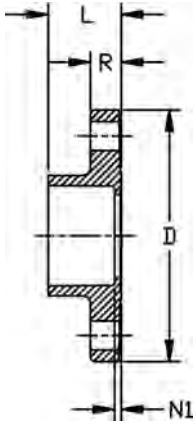


Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	R (inch)	Design
¼	625	* 9850-002	12.09	50	0.81	0.22	HS
⅜	625	* 9850-003	12.09	50	0.83	0.22	HS
½	625	9850-005	9.95	50	0.98	0.22	HS
¾	625	9850-007	12.60	50	1.06	0.25	HS
1	625	9850-010	20.73	25	1.24	0.27	HS
1 ¼	625	9850-012	Call	25	1.33	0.31	HS
1 ½	625	9850-015	25.98	20	1.38	0.34	HS
2	625	9850-020	35.35	10	1.47	0.39	HS
2 ½	H02	* 9850-025S	60.02	5	1.95	0.38	SL
3	625	9850-030	64.27	5	1.98	0.38	HS
4	625	9850-040	114.04	5	2.16	0.39	HS
6	A34	* 9850-060N	427.19	1	2.00	0.75	FAB
8	A34	* 9850-080N	609.85	1	2.00	0.75	FAB
10	A34	* 9850-100N	646.13	1	2.00	0.75	FAB
12	A34	* 9850-120N	689.69	1	2.00	0.75	FAB

Flange - One Piece (S)



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



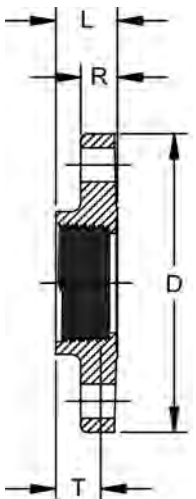
Size (inch)	P/L	Part No.	USD
½	625	9851-005	29.78
¾	625	9851-007	30.46
1	625	9851-010	33.26
1 ¼	625	9851-012	40.60
1 ½	625	9851-015	45.06
2	625	9851-020	54.55
2 ½	625	9851-025	113.03
3	625	9851-030	118.20
4	625	9851-040	159.68
5	H02	* 9851-050S	292.65
6	625	9851-060	272.03
8	H02	* 9851-080S	Call

Size (inch)	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	N1 (inch)	R (inch)	Design
½	5	4	½	2.38	3.50	1.03	0.13	0.39	HC
¾	5	4	½	2.75	3.89	1.14	0.13	0.45	HC
1	5	4	½	3.13	4.28	1.29	0.16	0.52	HC
1 ¼	5	4	½	3.50	4.64	1.45	0.14	0.59	HC
1 ½	5	4	½	3.88	5.01	1.54	0.16	0.68	HC
2	5	4	⅝	4.75	6.01	1.73	0.16	0.69	HC
2 ½	5	4	⅝	5.50	7.00	1.99	0.17	0.75	HC
3	5	4	⅝	6.00	7.51	2.46	0.57	1.10	HC
4	5	8	⅝	7.50	9.04	2.79	0.52	1.19	HC
5	1	8	¾	8.50	10.13	3.25	0.25	1.00	HC
6	2	8	¾	9.50	11.13	3.86	0.36	1.38	HC
8	1	8	¾	11.75	13.50	4.56	0.56	1.44	HC

Flange - One Piece (FPT)



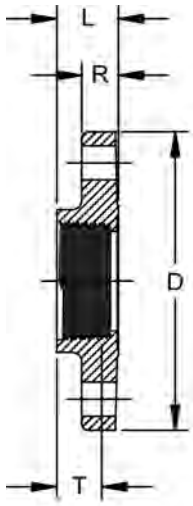
- ANSI 150 Class according to ANSI B16.5
- 75 psi @ 73°F (5.2 bar @ 22.7°C)
- HC = Honeycomb (Face)



Size (inch)	P/L	Part No.	USD
½	625	^ 9852-005	41.63
¾	625	^ 9852-007	50.46
1	625	^ 9852-010	55.07
1 ¼	625	^ 9852-012	76.44
1 ½	625	^ 9852-015	80.93
2	625	^ 9852-020	82.40
2 ½	625	^ 9852-025	95.64
3	625	^ 9852-030	132.72
4	625	^ 9852-040	206.33

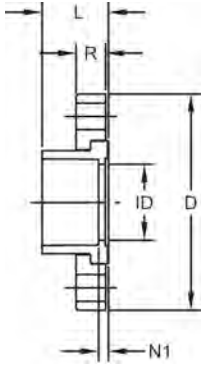
Size (inch)	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	T (inch)	R (inch)	Design
½	5	4	½	2.38	3.51	0.89	0.77	0.39	HC
¾	5	4	½	2.75	3.89	0.91	0.79	0.45	HC
1	5	4	½	3.13	4.28	1.13	1.00	0.53	HC
1 ¼	5	4	½	3.50	4.62	1.20	1.06	0.58	HC
1 ½	5	4	½	3.88	4.99	1.19	1.03	0.68	HC

table continued on the next page



Size (inch)	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	T (inch)	R (inch)	Design
2	5	4	$\frac{5}{8}$	4.75	6.02	1.22	1.06	0.70	HC
2 ½	5	4	$\frac{5}{8}$	5.50	7.00	1.72	1.53	0.75	HC
3	5	4	$\frac{5}{8}$	6.00	7.50	2.15	1.63	1.15	HC
4	5	8	$\frac{5}{8}$	7.50	9.00	2.30	1.77	1.23	HC

Flange - Van Stone (S)



- ANSI 150 Class according to ANSI B16.5
- 1/2" - 12" pressure rating is 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 (Face)

Size (inch)	P/L	Part No.	USD
1/2	625	9854-005	29.98
3/4	625	9854-007	30.65
1	625	9854-010	33.47
1 1/4	625	9854-012	40.87
1 1/2	625	9854-015	45.37
2	625	9854-020	54.95
2 1/2	625	9854-025	113.82
3	625	9854-030	119.18
4	625	9854-040	160.95
5	H02	* 9854-050S	274.25
6	625	9854-060	274.24
8	625	9854-080	825.17
10	B10	9854-100	1,986.49
12	B10	9854-120	2,980.81
14	A34	* 9854-140N	3,358.87
16	A34	* 9854-160N	4,198.60
18	A34	* 9854-180N	6,815.94
20	A34	* 9854-200N	8,505.44
24	A34	* 9854-240N	13,082.28

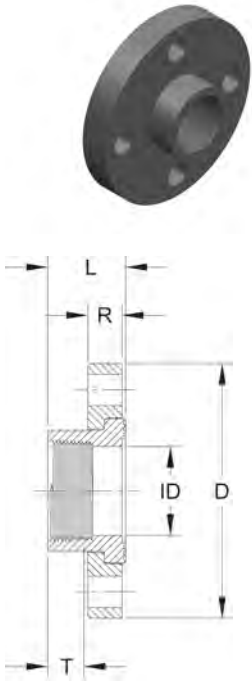
Size (inch)	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	N1 (inch)	R (inch)	ID (inch)	Design
1/2	5	4	1/2	2.38	3.53	1.10	0.18	0.57	0.60	HC
3/4	5	4	1/2	2.75	3.87	1.23	0.18	0.59	0.82	HC
1	5	4	1/2	3.13	4.25	1.38	0.20	0.66	1.03	HC
1 1/4	5	4	1/2	3.50	4.62	1.52	0.21	0.69	1.36	HC
1 1/2	5	4	1/2	3.88	5.01	1.68	0.25	0.75	1.60	HC
2	5	4	5/8	4.75	6.02	1.84	0.29	0.82	2.06	HC
2 1/2	5	4	5/8	5.50	7.01	2.15	0.33	0.98	2.49	HC
3	5	4	5/8	6.00	7.50	2.33	0.39	1.02	3.09	HC
4	5	8	5/8	7.50	8.99	2.75	0.24	1.10	4.06	HC
5	1	8	3/4	8.50	10.18	2.98	0.33	1.13	4.81	SL
6	2	8	3/4	9.50	10.98	3.55	0.48	1.25	6.11	HC
8	2	8	3/4	11.75	13.51	4.60	0.51	1.71	8.00	HC
10	2	12	7/8	14.25	15.97	5.66	0.53	1.73	10.10	HC
12	2	12	7/8	17.00	18.95	6.71	0.57	1.72	11.96	HC
14	1	12	7/8	18.75	21.00	11.75	4.75	0.50	12.50	FAB
16	1	16	1	21.25	23.50	13.50	5.50	0.50	14.31	FAB
18	1	16	1 1/8	22.75	25.00	14.50	5.50	0.50	16.13	FAB
20	1	20	1 1/8	25.00	27.50	17.25	7.25	0.50	18.00	FAB
24	1	20	1 1/4	29.50	32.00	19.50	7.50	0.50	21.56	FAB

Flange - Van Stone (FPT)

- ANSI 150 Class according to ANSI B16.5
- 75 psi @ 73°F (5.2 bar @ 22.7°C)
- HC = Honeycomb (Face)

Size (inch)	P/L	Part No.	USD
1	625	^ 9855-010	52.69
1 ¼	625	^ 9855-012	72.51
1 ½	625	^ 9855-015	77.42
2	625	^ 9855-020	78.87

Size (inch)	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	T (inch)	R (inch)	ID (inch)	Design
1	5	4	½	3.13	4.25	1.39	1.01	0.66	1.06	HC
1 ¼	5	4	½	3.50	4.62	1.50	1.02	0.69	1.38	HC
1 ½	5	4	½	3.88	5.01	1.67	1.06	0.75	1.61	HC
2	5	4	¾	4.75	6.02	1.82	1.09	0.82	2.08	HC



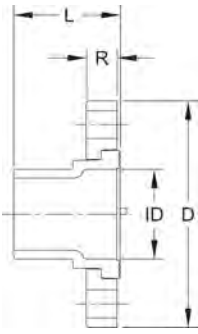
Flange - Van Stone (SPG)

- ANSI 150 Class according to ANSI B16.5
- 1/2" - 12" pressure rating is 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 (Face)

Size (inch)	P/L	Part No.	USD
½	625	9856-005	34.66
¾	625	9856-007	37.21
1	625	9856-010	42.24
1 ¼	625	9856-012	52.27
1 ½	625	9856-015	57.80
2	625	9856-020	80.91
2 ½	625	9856-025	126.73
3	625	9856-030	138.77
4	625	9856-040	142.81
6	625	9856-060	311.80
8	625	9856-080	635.56
10	B10	9856-100	2,134.14
12	B10	9856-120	3,205.80
14	A34	* 9856-140N	3,358.87
16	A34	* 9856-160N	4,198.60
18	A34	* 9856-180N	6,815.94
20	A34	* 9856-200N	10,113.64
24	A34	* 9856-240N	14,544.44

Size (inch)	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	R (inch)	ID (inch)	Design
½	5	4	½	2.38	3.53	1.72	0.57	0.84	HC
¾	5	4	½	2.75	3.87	1.85	0.59	1.05	HC
1	5	4	½	3.13	4.25	2.10	0.66	1.32	HC
1 ¼	5	4	½	3.50	4.62	2.28	0.69	1.66	HC
1 ½	5	4	½	3.88	5.01	2.48	0.75	1.90	HC
2	5	4	¾	4.75	6.02	2.80	0.82	2.38	HC
2 ½	5	4	¾	5.50	7.01	3.27	0.98	2.86	HC
3	5	4	¾	6.00	7.50	3.60	1.02	3.49	HC
4	5	8	¾	7.50	8.99	4.10	1.10	4.49	HC

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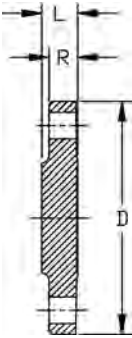


Size (inch)	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	R (inch)	ID (inch)	Design
6	2	8	3/4	9.50	10.98	5.10	1.25	6.60	HC
8	1	8	3/4	11.75	13.51	6.88	1.71	8.62	HC
10	1	12	7/8	14.25	15.97	8.30	1.73	10.70	HC
12	1	12	7/8	17.00	18.95	9.55	1.72	12.69	HC
14	1	12	1	18.75	21.00	13.00	0.50	11.41	FAB
16	1	16	1	21.25	23.50	14.00	0.50	13.08	FAB
18	1	16	1 1/8	22.75	25.00	16.00	0.50	14.76	FAB
20	1	20	1 1/8	25.00	27.50	18.00	0.50	16.43	FAB
24	1	20	1 1/4	29.50	32.00	20.00	0.50	19.79	FAB

Flange (Blind)



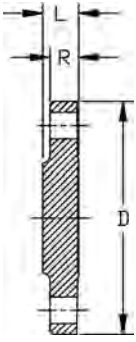
- ANSI 150 Class according to ANSI B16.5
- 1/2" - 8" 150 psi @ 73°F (10.3 bar @ 22.7°C)
- 10" - 24" 50 psi @ 73°F (3.5 bar @ 22.7°C)
- HC = Honeycomb (Face)



Size (inch)	P/L	Part No.	USD
1/2	625	9853-005	44.63
3/4	625	9853-007	48.39
1	625	9853-010	60.33
1 1/4	625	9853-012	68.25
1 1/2	625	9853-015	95.53
2	625	9853-020	100.36
2 1/2	625	9853-025	151.81
3	625	9853-030	188.73
4	625	9853-040	255.64
5	H04	* 9853-050FS	515.18
6	625	9853-060	428.82
8	625	9853-080	795.40
10	A34	* 9853-100N	1,434.19
12	A34	* 9853-120N	2,409.43
14	A34	* 9853-140N	2,800.08
16	A34	* 9853-160N	4,341.51
18	A34	* 9853-180N	5,351.97
20	A34	* 9853-200N	5,734.80
24	A34	* 9853-240N	6,978.07

Size (inch)	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	R (inch)	Design
1/2	5	4	1/2	2.38	3.51	0.48	0.39	HC
3/4	5	4	1/2	2.75	3.90	0.55	0.45	HC
1	5	4	1/2	3.13	4.29	0.66	0.53	HC
1 1/4	5	4	1/2	3.50	4.62	0.73	0.59	HC
1 1/2	5	4	1/2	3.88	5.01	0.81	0.68	HC
2	5	4	5/8	4.75	6.02	0.90	0.70	HC
2 1/2	5	4	5/8	5.50	7.00	0.97	0.76	HC
3	5	4	5/8	6.00	7.45	1.03	1.03	HC
4	5	8	5/8	7.50	8.96	1.14	1.14	HC
5	1	8	5/8	8.50	10.06	1.00	1.00	HC
6	2	8	3/4	9.50	10.95	1.51	1.27	HC
8	2	8	3/4	11.75	13.51	1.62	1.45	HC
10	1	12	7/8	14.25	16.00	1.00	1.00	SOLID
12	1	12	7/8	17.00	19.00	1.00	1.00	SOLID
14	1	12	1	18.75	21.00	1.00	1.00	SOLID

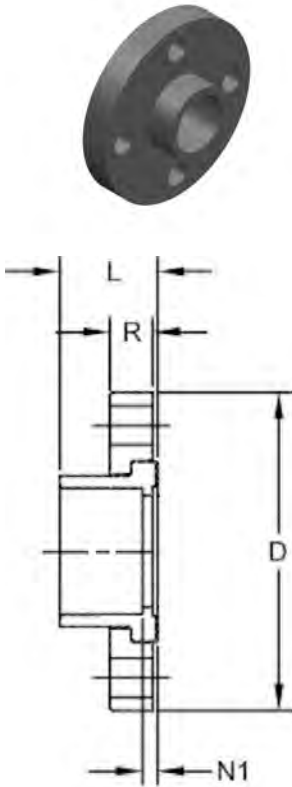
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Size (inch)	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	R (inch)	Design
16	1	16	1	21.25	23.50	1.00	1.00	SOLID
18	1	16	1 1/8	22.75	25.00	1.00	1.00	SOLID
20	1	20	1 1/8	25.00	27.50	1.00	1.00	SOLID
24	1	20	1 1/4	29.50	32.00	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)
- HC = Honeycomb (Face)

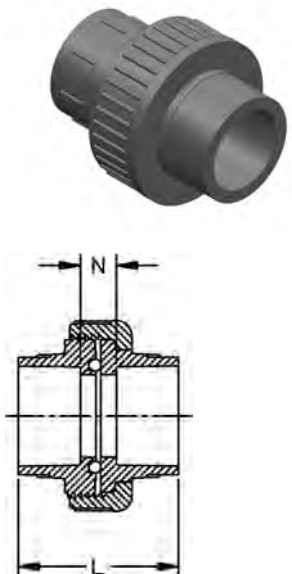


Size (inch)	P/L	Part No.	USD
½	25	* 9854-005-300	216.67
¾	25	* 9854-007-300	290.29
1	25	* 9854-010-300	353.97
1 ¼	25	* 9854-012-300	376.05
1 ½	25	* 9854-015-300	390.47
2	25	* 9854-020-300	433.75
2 ½	25	* 9854-025-300	467.03
3	25	* 9854-030-300	560.92
4	25	* 9854-040-300	884.60
6	25	* 9854-060-300	1,670.43
8	25	* 9854-080-300	1,885.52
10	02	* 9854-100-300	2,173.26
12	02	* 9854-120-300	2,844.00

Size	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	N1 (inch)	R (inch)	Design
½	5	4	½	2.63	3.75	1.03	0.11	0.57	FAB
¾	5	4	⅝	3.25	4.63	1.15	0.13	0.59	FAB
1	5	4	⅝	3.50	4.88	1.38	0.11	0.66	FAB
1 ¼	5	4	⅝	3.88	5.25	1.45	0.14	0.69	FAB
1 ½	5	4	¾	4.50	6.13	1.59	0.15	0.75	FAB
2	5	8	⅝	5.00	6.50	1.76	0.20	0.82	FAB
2 ½	5	8	¾	5.88	7.50	2.05	0.22	0.98	FAB
3	5	8	¾	6.63	8.25	2.25	0.30	1.02	FAB
4	5	8	¾	7.88	10.00	2.65	0.34	1.10	FAB
6	2	12	¾	10.63	12.50	3.45	0.35	1.25	FAB
8	2	12	⅞	13.00	15.00	4.50	0.40	1.71	FAB
10	2	16	1	15.25	17.50	5.63	0.50	1.73	FAB
12	2	16	1 ¼	17.75	20.50	6.69	0.56	1.72	FAB

Union Type 375 (S x S)

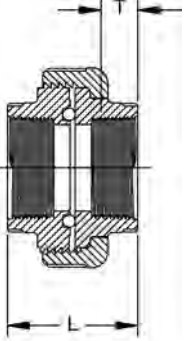
235 psi @ 73°F (16.2 bar @ 22.7°C)



Size (inch)	P/L	EPDM Part No.	USD	FKM Part No.	USD	Pack Qty	L (inch)	N (inch)
½	625	9897-375-005	30.24	9857-375-005	30.34	25	2.56	0.78
¾	625	9897-375-007	31.32	9857-375-007	31.69	10	2.80	0.76
1	625	9897-375-010	37.53	9857-375-010	38.03	5	3.22	0.89
1 ¼	625	9897-375-012	75.98	9857-375-012	76.97	5	3.56	0.99
1 ½	625	9897-375-015	77.42	9857-375-015	78.37	5	3.76	0.92
2	625	9897-375-020	128.31	9857-375-020	129.91	2	4.18	1.11

Union Type 375 (FPT X FPT)

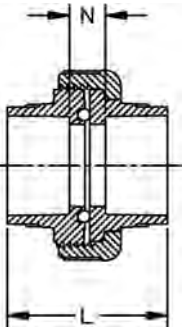
- 117 psi @ 73°F (8.1 bar @ 22.7°C)



Size (inch)	P/L	EPDM Part No.	USD	FKM Part No.	USD	Pack Qty	L (inch)	T (inch)
½	625	^ 9898-375-005	32.08	^ 9858-375-005	32.49	25	2.06	0.75
¾	625	^ 9898-375-007	56.72	^ 9858-375-007	57.43	10	2.11	0.79
1	625	^ 9898-375-010	78.21	^ 9858-375-010	79.20	5	2.60	1.01
1 ¼	625	^ 9898-375-012	149.14	^ 9858-375-012	150.89	5	2.80	1.06
1 ½	625	^ 9898-375-015	149.14	^ 9858-375-015	150.89	5	2.76	1.06
2	625	^ 9898-375-020	168.49	^ 9858-375-020	170.56	2	2.93	1.09

Union (S x S)

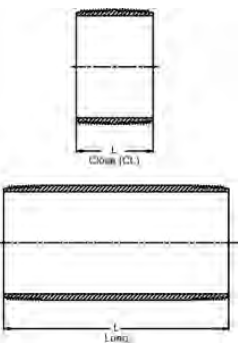
- 150 psi @ 73°F (10.3 bar @ 22.7°C)



Size (inch)	P/L	EPDM Part No.	USD	FKM Part No.	USD	Pack Qty	L (inch)	N (inch)
3	625	9897-030	266.31	9857-030	269.62	1	4.74	0.96
4	625	9897-040	340.56	9857-040	344.48	1	5.62	1.11

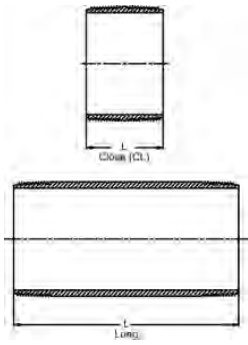
Nipple (MPT x MPT)

- Nipples fabricated from pipe



Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)
1/2 x CL	625	* 9861-077	7.36	25	1.13
1/2 x 2	625	* 9861-079	9.63	25	2.00
1/2 x 3	625	* 9861-081	12.34	25	3.00
1/2 x 4	625	* 9861-082	15.14	25	4.00
1/2 x 5	625	* 9861-083	17.95	25	5.00
1/2 x 6	625	* 9861-084	20.95	25	6.00
1/2 x 8	625	9861-086	Call	25	8.00
3/4 x CL	625	* 9861-104	9.71	25	1.38
3/4 x 2	625	* 9861-020	12.23	25	2.00
3/4 x 3	625	* 9861-106	15.69	25	3.00
3/4 x 4	625	* 9861-107	19.42	25	4.00
3/4 x 5	625	* 9861-108	22.95	25	5.00
3/4 x 6	625	* 9861-109	26.95	25	6.00
3/4 x 8	625	9861-112	Call	25	8.00
1 x CL	625	* 9861-133	13.33	25	1.50

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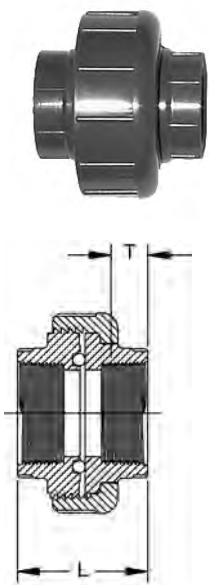


Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)
1 x 2	625	*9861-134	16.81	25	2.00
1 x 3	625	*9861-135	21.16	25	3.00
1 x 4	625	*9861-136	26.57	25	4.00
1 x 5	625	*9861-137	31.95	25	5.00
1 x 6	625	*9861-138	37.76	25	6.00
1 1/4 x CL	625	*9861-170	19.49	25	1.63
1 1/4 x 2	625	*9861-171	22.84	25	2.00
1 1/4 x 3	625	*9861-172	28.41	25	3.00
1 1/4 x 4	625	*9861-173	35.31	25	4.00
1 1/4 x 5	625	*9861-174	42.19	25	5.00
1 1/4 x 6	625	*9861-175	49.89	25	6.00
1 1/2 x CL	625	*9861-213	19.32	25	1.75
1 1/2 x 2	625	*9861-214	25.24	25	2.00
1 1/2 x 3	625	*9861-215	31.12	25	3.00
1 1/2 x 4	625	*9861-216	38.37	25	4.00
1 1/2 x 5	625	*9861-217	46.82	25	5.00
1 1/2 x 6	625	*9861-218	55.53	25	6.00
1-1/2 x 12	625	9861-221	Call	25	12.00
2 x CL	625	*9861-251	32.21	25	2.00
2 x 2 1/2	625	*9861-252	33.89	25	2.50
2 x 3	625	*9861-253	42.63	25	3.00
2 x 4	625	*9861-254	53.64	25	4.00
2 x 5	625	*9861-255	64.15	25	5.00
2 x 6	625	*9861-256	79.22	25	6.00
2 x 12	625	9861-259	Call	25	12.00
2 1/2 x CL	625	*9861-291	40.22	10	2.50
2 1/2 x 3	625	*9861-292	47.85	10	3.00
2 1/2 x 4	625	*9861-295	57.37	10	4.00
2 1/2 x 5	625	*9861-296	68.79	10	5.00
2 1/2 x 6	625	*9861-297	81.69	10	6.00
3 x CL	625	*9861-338	82.77	10	2.63
3 x 3	625	*9861-340	82.87	10	3.00
3 x 4	625	*9861-341	102.89	10	4.00
3 x 5	625	*9861-342	127.78	10	5.00
3 x 6	625	*9861-343	152.09	10	6.00
4 x CL	625	*9861-422	115.86	10	2.88
4 x 4	625	*9861-423	151.49	10	4.00
4 x 5	625	*9861-425	181.39	10	5.00
4 x 6	625	*9861-426	217.14	10	6.00

Union (FPT X FPT)

- 75 psi @ 73°F (5.2 bar @ 22.7°C)

Size (inch)	P/L	EPDM Part No.	USD	FKM Part No.	USD	Pack Qty	L (inch)	T (inch)
3	625	^ 9898-030	472.25	^ 9858-030	521.38	1	4.75	1.33
4	625	^ 9898-040	549.79	^ 9858-040	560.46	1	5.71	1.78

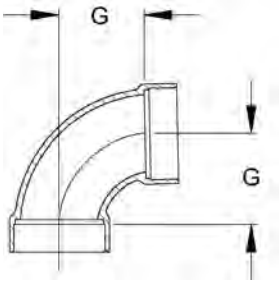


Schedule 80 CPVC DWV Fittings

1/4 Bend Short Sweep (SxS)



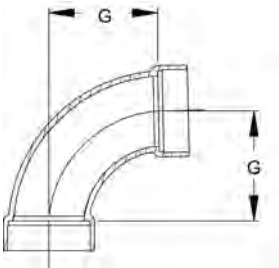
Size (inch)	P/L	Part No.	USD	Pack Qty	G (inch)
1 1/2	625	9806-015SS	Call	4	1.75
2	625	9806-020SS	Call	4	2.31
3	625	9806-030SS	Call	1	3.06
4	625	9806-040SS	Call	1	3.88



1/4 Bend Long Sweep (SxS) - FAB



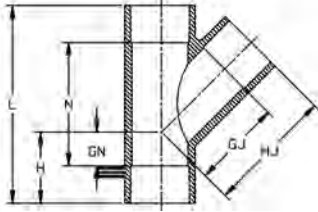
Size (inch)	P/L	Part No.	USD	Pack Qty	G (inch)
1 1/2	A34	*9806-015LSN	Call	4	4.13
2	A34	*9806-020LSN	Call	4	4.75
3	A34	*9806-030LSN	Call	1	7.00
4	A34	*9806-040LSN	Call	1	9.00



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" - 24" 100 psi @ 72°F (6.9 bar @ 22.7°C)

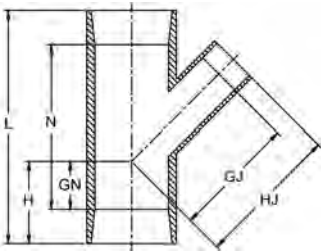


Size (inch)	P/L	Part No.	USD	Pack Qty	GJ (inch)	GN (inch)	H (inch)	HJ (inch)	L (inch)	N (inch)	Design
1 1/2	625	9870-015	51.52	20	2.79	1.20	2.60	4.18	6.80	4.02	SL
2	625	9870-020	126.15	10	3.56	1.36	2.87	5.07	7.99	4.97	SL
3	625	9870-030	622.01	4	4.91	1.82	3.73	6.83	10.45	6.62	SL
4	625	9870-040	657.62	4	6.26	2.06	4.41	8.61	12.94	8.24	SL
6	625	9870-060	900.07	2	8.38	1.85	4.90	11.44	16.50	10.39	HS
8	H02	* 9870-080S	1,537.13	1	11.09	1.90	5.92	15.11	21.35	13.30	SL
10	A34	* 9875-100N	2,309.56	1	19.75	5.50	11.25	24.75	31.75	21.75	FAB
12	A34	* 9875-120N	3,216.91	1	22.63	6.50	12.50	28.63	37.50	25.50	FAB
14	A34	* 9875-140N	11,184.29	1	25.75	7.00	14.00	32.75	41.75	27.75	FAB
16	A34	* 9875-160N	14,028.76	1	28.88	7.75	16.00	36.88	47.25	31.25	FAB
18	A34	* 9875-180N	20,357.36	1	32.50	8.50	17.50	41.50	53.00	35.00	FAB
20	A34	* 9875-200N	29,431.26	1	35.50	9.50	19.50	45.50	58.75	38.75	FAB
24	A34	* 9875-240N	45,353.82	1	42.00	11.00	23.00	54.00	70.00	46.00	FAB

Reducing 45° Wye (S x S x S)

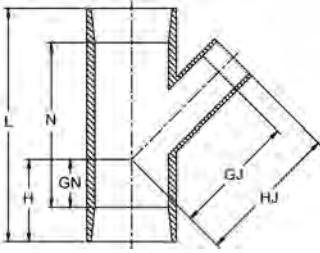


2" 235 psi @ 72°F (16.2 bar @ 22.7° C)
 3" - 6" 150 psi @ 72°F (10.3 bar @ 22.7°C)
 8" - 24" 100 psi @ 72°F (6.9 bar @ 22.7°C)



Size (inch)	P/L	Part No.	USD
2 x 1 1/2	625	* 9870-251FB	175.02
3 x 1 1/2	625	* 9870-337FB	719.94
3 x 2	625	* 9870-338FB	719.94
4 x 2	625	* 9870-420FB	728.01
4 x 3	625	* 9870-422FB	728.01
6 x 2	625	* 9870-528FB	Call
6 x 3	625	* 9870-530FB	921.93
6 x 4	625	9870-532	703.96
8 x 3	625	* 9870-580FB	Call
8 x 4	625	* 9870-582FB	2,438.45
8 x 6	625	* 9870-585FB	2,234.67
10 x 4	A34	* 9875-623N	1,409.51
10 x 6	A34	* 9875-626N	1,600.40
10 x 8	A34	* 9875-628N	1,884.61
12 x 4	A34	* 9875-663N	2,142.20
12 x 6	A34	* 9875-666N	2,228.46
12 x 8	A34	* 9875-668N	2,352.15
12 x 10	A34	* 9875-670N	2,895.95
14 x 4	A34	* 9875-696N	4,794.85
14 x 6	A34	* 9875-698N	5,266.49
14 x 8	A34	* 9875-700N	5,697.00
14 x 10	A34	* 9875-702N	6,140.96
14 x 12	A34	* 9875-704N	6,940.26
16 x 4	A34	* 9875-730N	6,033.33
16 x 6	A34	* 9875-732N	6,352.80
16 x 8	A34	* 9875-734N	7,376.56
16 x 10	A34	* 9875-736N	8,290.20
16 x 12	A34	* 9875-738N	8,991.12
16 x 14	A34	* 9875-740N	11,310.54
18 x 4	A34	* 9875-784N	8,065.63
18 x 6	A34	* 9875-786N	8,656.35
18 x 8	A34	* 9875-788N	9,609.72
18 x 10	A34	* 9875-790N	10,594.39
18 x 12	A34	* 9875-792N	11,651.22

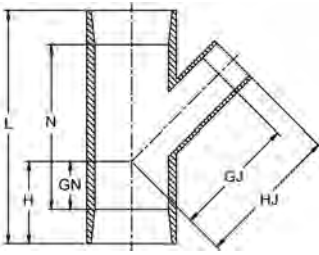
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Size (inch)	P/L	Part No.	USD
18 x 14	A34	* 9875-794N	14,835.37
18 x 16	A34	* 9875-796N	16,520.47
20 x 4	A34	* 9875-814N	14,457.42
20 x 6	A34	* 9875-816N	15,578.86
20 x 8	A34	* 9875-818N	16,463.38
20 x 10	A34	* 9875-820N	17,020.98
20 x 12	A34	* 9875-822N	17,632.24
20 x 14	A34	* 9875-824N	19,034.45
20 x 16	A34	* 9875-826N	20,609.75
20 x 18	A34	* 9875-828N	21,392.69
24 x 4	A34	* 9875-904N	20,556.72
24 x 6	A34	* 9875-906N	21,263.96
24 x 8	A34	* 9875-908N	21,808.26
24 x 10	A34	* 9875-910N	22,795.17
24 x 12	A34	* 9875-912N	24,244.07
24 x 14	A34	* 9875-914N	25,184.44
24 x 16	A34	* 9875-916N	26,868.21
24 x 18	A34	* 9875-918N	30,984.51
24 x 20	A34	* 9875-920N	32,435.91

Size (inch)	Pack Qty	GJ (inch)	GN (inch)	H (inch)	HJ (inch)	L (inch)	N (inch)	Design
2 x 1 1/2	10	3.96	1.36	2.87	5.37	7.99	4.97	BUSH
3 x 1 1/2	4	5.80	1.82	3.73	7.34	10.45	6.62	BUSH
3 x 2	4	5.77	1.82	3.73	7.33	10.45	6.62	BUSH
4 x 2	4	7.40	2.06	4.41	7.40	12.94	8.24	BUSH
4 x 3	4	7.03	2.06	4.41	9.00	12.94	8.24	BUSH
6 x 2	1	8.24	1.87	4.91	8.24	16.49	10.42	BUSH
6 x 3	2	7.88	1.87	4.91	9.84	16.49	10.42	BUSH
6 x 4	2	7.14	1.87	4.91	9.36	16.49	10.42	HS
8 x 3	1	10.23	0.41	4.43	12.20	15.98	7.95	BUSH
8 x 4	1	13.95	2.06	6.06	16.21	21.25	13.31	BUSH
8 x 6	1	12.78	1.90	5.92	15.76	21.35	13.30	BUSH
10 x 4	1	14.00	1.25	6.25	16.00	23.00	13.00	FAB
10 x 6	1	16.13	2.75	7.50	19.13	26.00	16.00	FAB
10 x 8	1	17.50	4.00	9.25	21.50	28.00	18.75	FAB
12 x 4	1	15.50	0.50	6.00	17.50	25.75	13.75	FAB
12 x 6	1	16.68	2.00	8.00	20.50	28.68	16.68	FAB
12 x 8	1	19.00	3.50	9.50	23.00	31.50	19.50	FAB
12 x 10	1	21.25	5.00	11.00	26.25	34.50	22.50	FAB
14 x 4	1	16.25	0.25	7.25	18.25	28.25	14.25	FAB
14 x 6	1	18.50	1.75	8.63	21.50	31.25	17.25	FAB
14 x 8	1	19.75	3.00	10.00	23.75	34.00	20.00	FAB
14 x 10	1	22.00	4.50	11.50	27.00	37.00	23.00	FAB
14 x 12	1	23.50	6.00	13.00	29.50	39.75	25.75	FAB
16 x 4	1	17.75	-0.75	7.50	19.75	31.00	15.00	FAB
16 x 6	1	19.88	1.00	9.00	22.88	34.00	18.00	FAB
16 x 8	1	21.25	2.50	10.25	25.25	36.75	20.75	FAB
16 x 10	1	23.50	4.00	12.00	28.50	39.75	23.75	FAB
16 x 12	1	25.00	5.50	14.25	31.00	42.75	26.75	FAB
16 x 14	1	27.25	6.25	15.25	34.25	44.50	28.50	FAB
18 x 4	1	19.00	-1.25	8.00	21.00	34.00	16.00	FAB
18 x 6	1	21.25	0.50	9.50	24.25	37.00	19.00	FAB
18 x 8	1	22.75	2.00	11.00	26.75	39.75	21.75	FAB
18 x 10	1	25.00	3.50	12.50	30.00	42.75	24.75	FAB
18 x 12	1	26.25	4.75	13.75	32.50	45.50	27.50	FAB
18 x 14	1	28.75	5.75	14.75	35.75	48.50	29.50	FAB
18 x 16	1	30.25	7.25	16.00	38.25	50.25	32.25	FAB
20 x 4	1	20.50	-1.75	8.50	22.50	36.75	16.75	FAB
20 x 6	1	22.75	-0.25	10.00	25.75	39.75	19.75	FAB
20 x 8	1	24.25	1.50	11.50	28.25	42.75	22.75	FAB
20 x 10	1	26.50	3.00	13.00	31.50	45.75	25.75	FAB
20 x 12	1	28.00	4.25	14.25	34.00	48.50	28.50	FAB

table continued on the next page

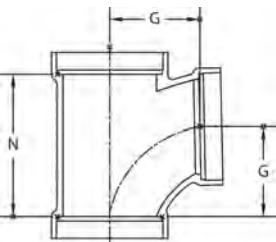


Size (inch)	Pack Qty	GJ (inch)	GN (inch)	H (inch)	HJ (inch)	L (inch)	N (inch)	Design
20 x 14	1	30.25	5.25	15.00	37.25	50.25	30.25	FAB
20 x 16	1	31.75	6.50	16.50	39.75	53.00	33.00	FAB
20 x 18	1	34.00	8.00	18.00	43.00	56.00	36.00	FAB
24 x 4	1	23.25	-3.00	9.25	25.25	42.50	18.50	FAB
24 x 6	1	25.50	-1.50	10.75	28.50	45.50	21.54	FAB
24 x 8	1	27.00	0.00	12.00	31.00	48.25	24.25	FAB
24 x 10	1	29.25	1.75	13.50	34.25	51.25	27.25	FAB
24 x 12	1	30.50	3.25	15.00	36.60	54.25	30.25	FAB
24 x 14	1	33.00	4.00	16.00	40.00	56.00	32.00	FAB
24 x 16	1	34.50	5.50	17.50	42.50	58.75	34.75	FAB
24 x 18	1	36.75	6.75	18.75	45.75	61.50	37.50	FAB
24 x 20	1	38.25	8.25	20.25	48.25	64.50	40.50	FAB



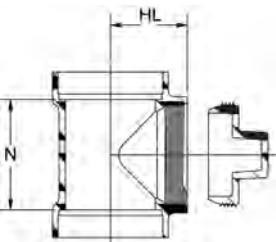
Sanitary Tee (SxSxS)

Size (inch)	P/L	Part No.	USD	Pack Qty	G (inch)	N (inch)
1 1/2	625	37S461501	Call	5	1.75	2.75
2	625	37S461502	Call	5	2.31	3.69
3	625	37S461503	Call	5	3.06	4.88
4	625	37S461504	Call	5	3.88	6.13



Cleanout Tee with Plug (SxSxFPT)

Size (inch)	P/L	Part No.	USD	Pack Qty	HL (inch)	N (inch)
1 1/2	625	37S461101	Call	2	2.07	1.80
2	625	37S461102	Call	2	2.35	2.32
3	625	37S461103	Call	2	3.51	3.63
4	625	37S461104	Call	2	4.07	4.25



Schedule 80 CPVC Metal Transition Fittings



CPVC Full Pressure Flange Kit

- Kit includes: 1 Van Stone Flange, 1 316SS Backing Ring, 1 Garlock Stress Saver XP Gasket, and appropriate number of bolts, nuts, and washers depending on the size.

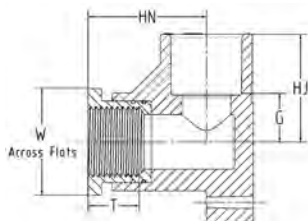
Size (inch)	P/L	Part No.	USD
2 1/2	607	37Z000267	Call
3	607	37Z000268	Call
4	607	37Z000269	Call
6	607	37Z000270	Call



CPVC-to-316SS Drop Ear (SxFPT)

- Available in January 2018

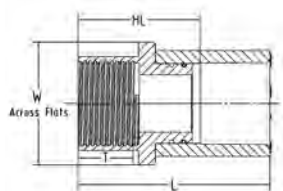
Size (inch)	P/L	Part No.	USD	Pack Qty	G (inch)	HJ (inch)	HN (inch)	T (inch)	W (inch)
1/2	A35	9832-005	Call	25	0.62	1.50	1.52	0.90	1.125
3/4	A35	9832-007	Call	25	0.76	1.77	1.65	0.95	1.313
1	A35	9832-010	Call	25	0.87	2.00	2.20	1.00	1.750

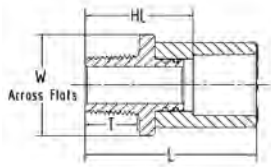


CPVC-to-316SS Female Adapter (SxFPT)

- Available in January 2018

Size (inch)	P/L	Part No.	USD	Pack Qty	HL (inch)	L (inch)	T (inch)	W (inch)
1/2	A35	9868-005SS	Call	25	1.49	2.38	0.84	1.25
3/4	A35	9868-007SS	Call	20	1.67	2.68	0.92	1.50
1	A35	9868-010SS	Call	25	1.98	3.11	0.96	1.75
1 1/4	A35	9868-012SS	Call	10	2.19	3.45	1.04	2.12
1 1/2	A35	9868-015SS	Call	10	2.35	3.73	1.04	2.50
2	A35	9868-020SS	Call	5	2.63	4.14	1.29	3.00





CPVC-to-316SS Male Adapter (SxMPT)

- Available in January 2018

Size (inch)	P/L	Part No.	USD	Pack Qty	HL (inch)	L (inch)	T (inch)	W (inch)
½	A35	9869-005SS	Call	50	1.49	2.38	0.70	1.25
¾	A35	9869-007SS	Call	25	1.67	2.68	0.74	1.50
1	A35	9869-010SS	Call	25	1.98	3.11	0.92	1.75
1 ¼	A35	9869-012SS	Call	15	2.19	3.45	0.95	2.12
1 ½	A35	9869-015SS	Call	15	2.35	3.73	0.99	2.50
2	A35	9869-020SS	Call	5	2.64	4.14	1.03	3.00

*



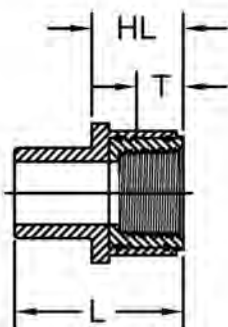
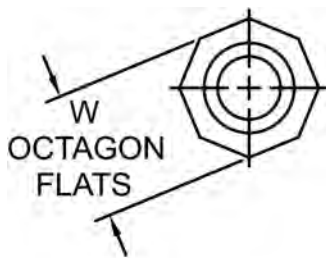
Metal Union End Connectors Type 375 (316 SS)

150 psi @ 73°F (10.3 bar @ 22.7°C)
Union Sold Separately

Size (inch)	P/L	Part No.	USD	Pack Qty
½	A35	* 37X003314	146.19	1
¾	A35	* 37X003315	190.39	1
1	A35	* 37X003316	215.36	1
1 ¼	A35	* 37X003317	444.98	1
1 ½	A35	* 37X003318	463.53	1
2	A35	* 37X003319	698.85	1

CPVC-to-Brass Transition Fittings (SPG x FPT)

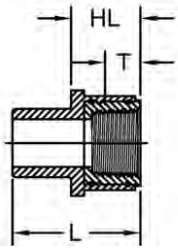
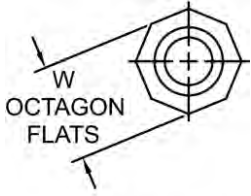
150 psi @ 73°F (10.3 bar @ 22.7°C)



Size (inch)	P/L	Part No.	USD	Pack Qty	HL (inch)	L (inch)	T (inch)	W (inch)
½	A35	9878-005BR	35.06	25	1.02	1.75	0.70	1.27
¾	A35	9878-007BR	72.56	15	1.07	2.07	0.74	1.52
1	A35	9878-010BR	127.33	15	1.32	2.44	0.81	1.93
1 ¼	A35	9878-012BR	207.73	15	1.38	2.49	0.85	2.29
1 ½	A35	9878-015BR	273.88	10	1.44	2.74	0.87	2.60
2	A35	9878-020BR	342.35	5	1.43	2.81	1.11	3.36

CPVC-to-316 SS Transition Fittings (SPG x FPT)

150 psi @ 73°F (10.3 bar @ 22.7°C)



Size (inch)	P/L	Part No.	USD	Pack Qty	HL (inch)	L (inch)	T (inch)	W (inch)
½	A35	9878-005SS	68.84	25	1.02	1.75	0.70	1.27
¾	A35	9878-007SS	96.12	15	1.07	2.07	0.74	1.52
1	A35	9878-010SS	168.21	15	1.32	2.44	0.81	1.93
1 ¼	A35	9878-012SS	273.37	15	1.38	2.49	0.85	2.29
1 ½	A35	9878-015SS	356.64	10	1.45	2.74	0.87	2.60
2	A35	9878-020SS	417.38	5	1.43	2.81	1.11	3.36



Metal Union End Connectors (316 SS)

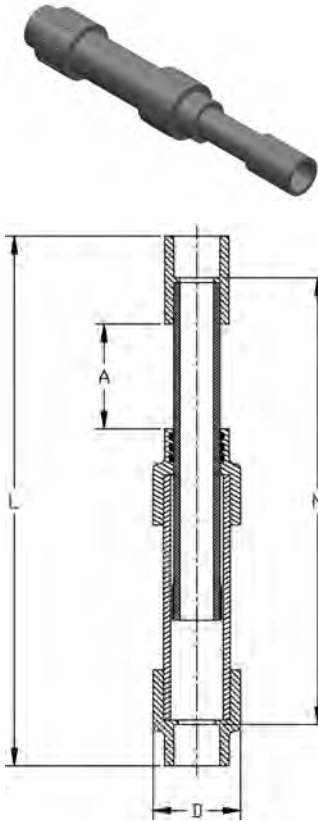
- 150 psi @ 73°F (10.3 bar @ 22.7°C)
- Union Sold Separately

Size (inch)	P/L	Part No.	USD	Pack Qty
½	A35	1694-005	Call	1
¾	A35	1694-007	Call	1
1	A35	1694-010	Call	1
1 ¼	A35	1694-012	Call	1
1 ½	A35	1694-015	Call	1
2	A35	1694-020	Call	1

Schedule 80 CPVC Expansion Joints

Expansion Joint 6" Travel (S x S)

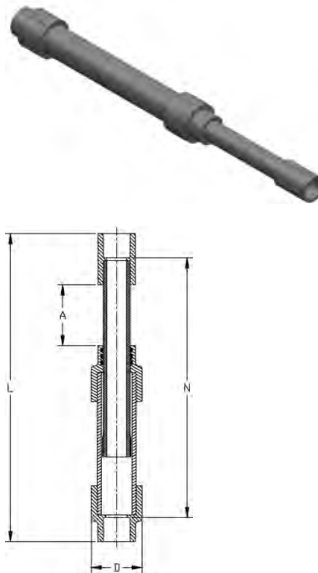
To order SxSPG add "P" to end of part number.
To order FxF add "F" to end of part number.



Size (inch)	P/L	EPDM Part No.	USD	FKM Part No.	USD	A (inch)	D (inch)	L (inch)	N (inch)
1/2	634	* 9826-005X6	385.98	* 9836-005X6	428.86	3.00	1.86	13.97	12.17
3/4	634	* 9826-007X6	422.37	* 9836-007X6	469.29	3.00	2.23	14.44	12.40
1	634	* 9826-010X6	456.54	* 9836-010X6	507.25	3.00	2.50	14.98	12.69
1 1/4	634	* 9826-012X6	479.51	* 9836-012X6	532.79	3.00	2.89	15.56	12.98
1 1/2	634	* 9826-015X6	522.61	* 9836-015X6	580.67	3.00	3.51	16.00	13.21
2	634	* 9826-020X6	662.21	* 9836-020X6	735.79	3.00	4.40	18.05	15.01
3	634	* 9826-030X6	912.89	* 9836-030X6	1,014.33	3.00	5.52	19.75	16.00
4	634	* 9826-040X6	1,346.40	* 9836-040X6	1,496.00	3.00	7.92	28.29	23.76
6	634	* 9826-060X6	1,447.34	* 9836-060X6	1,608.16	3.00	9.80	27.79	21.73
8	634	* 9826-080X6	2,745.57	* 9836-080X6	3,050.62	3.00	10.75	25.35	17.31
10	634	* 9826-100X6	3,505.03	* 9836-100X6	3,894.48	3.00	12.75	29.64	19.60

Expansion Joint 12" Travel (S x S)

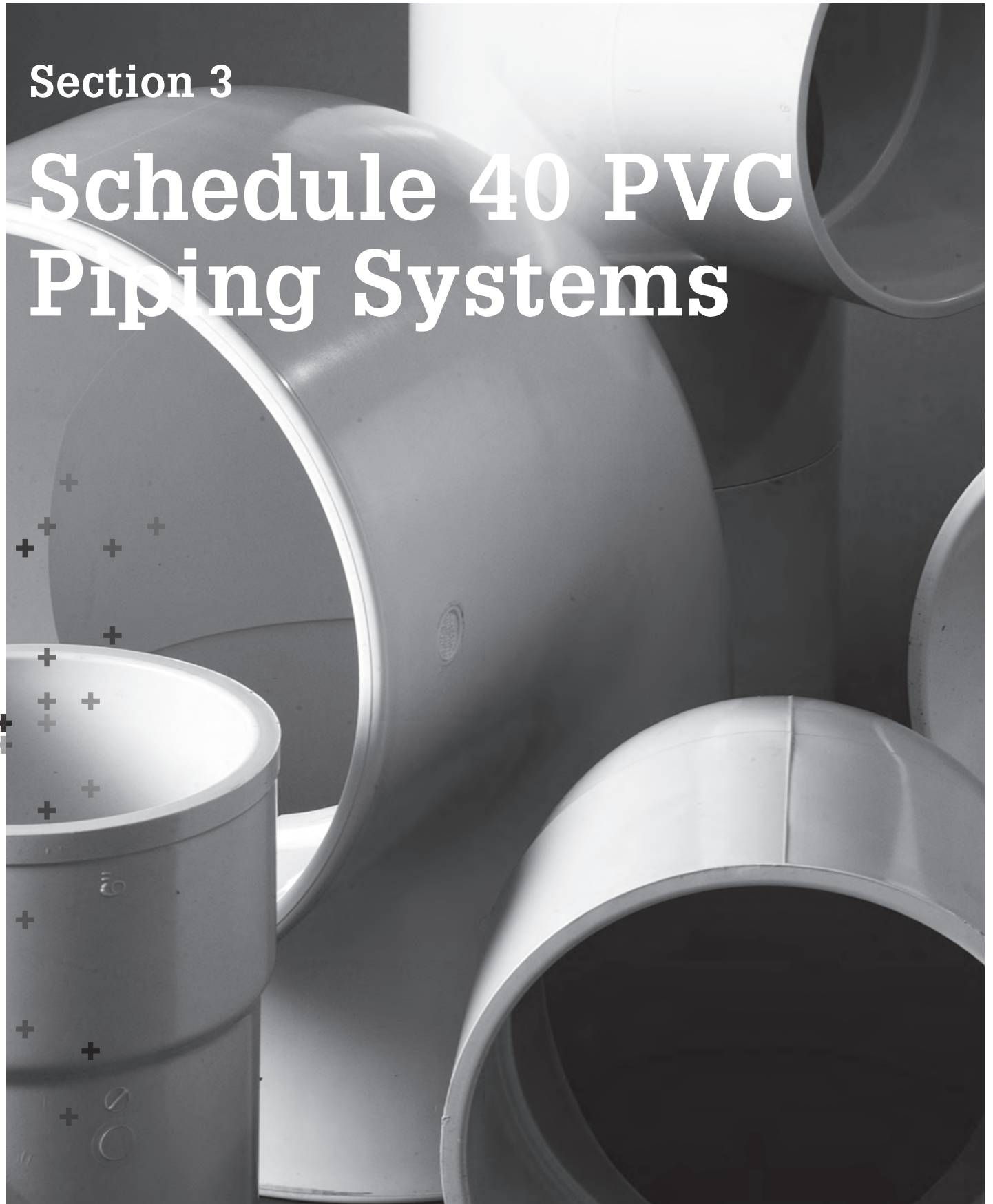
To order SxSPG add "P" to end of part number.
To order FxF add "F" to end of part number.



Size (inch)	P/L	EPDM Part No.	USD	FKM Part No.	USD	A (inch)	D (inch)	L (inch)	N (inch)
1/2	634	* 9826-005X12	393.11	* 9836-005X12	436.79	6.00	1.86	23.10	21.30
3/4	634	* 9826-007X12	450.81	* 9836-007X12	500.89	6.00	2.23	23.57	21.52
1	634	* 9826-010X12	480.91	* 9836-010X12	534.34	6.00	2.50	24.11	21.81
1 1/4	634	* 9826-012X12	538.26	* 9836-012X12	598.07	6.00	2.89	24.69	22.11
1 1/2	634	* 9826-015X12	603.64	* 9836-015X12	670.72	6.00	3.51	25.12	22.34
2	634	* 9826-020X12	770.51	* 9836-020X12	856.13	6.00	4.40	27.05	24.01
3	634	* 9826-030X12	937.43	* 9836-030X12	1,041.60	6.00	5.52	28.75	25.00
4	634	* 9826-040X12	1,552.86	* 9836-040X12	1,725.41	6.00	7.92	37.28	32.76
6	634	* 9826-060X12	1,710.68	* 9836-060X12	1,900.77	6.00	9.80	26.79	30.73
8	634	* 9826-080X12	3,275.27	* 9836-080X12	3,639.19	6.00	10.75	28.35	20.31
10	634	* 9826-100X12	3,837.11	* 9836-100X12	4,263.44	6.00	12.75	32.64	22.60

Section 3

Schedule 40 PVC Piping Systems



Glossary

FPT	=	Female Pipe Thread
MPT	=	Male Pipe Thread
S	=	Tapered Socket
SPG	=	Spigot End (same dimension as pipe outside diameter)
*	=	Non-Returnable / Non-cancellable
^	=	40% Restocking Fee
BUSH	=	Assembled Fitting from Molded Components
FAB	=	Fabricated Fitting

The technical information given in this publication implies no warranty of any kind and is subject to change without notice. Please consult our Terms and Conditions of Sale.

For complete technical information, please consult the GF Harvel Engineering and Installation Guide available online at www.gfpiping.com/resource.html [see "Technical Docs"] or by calling (800) 854-4090.

For more information about any of our product lines, please call (800) 854-4090.

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Specifications and Standards

Specifications and Standards

NSF/ANSI Standard 14

NSF/ANSI Standard 61

ASTM D 1784 : Material PVC Type I, Grade I White or Gray (cell classification 12454)

ASTM D 1785 : PVC Schedule 40 Pipe

ASTM D 2665 : PVC Schedule 40 Drain, Waste, and Vent (DWV)

ASTM D 2466 : PVC Schedule 40 Socket and Threaded Fittings

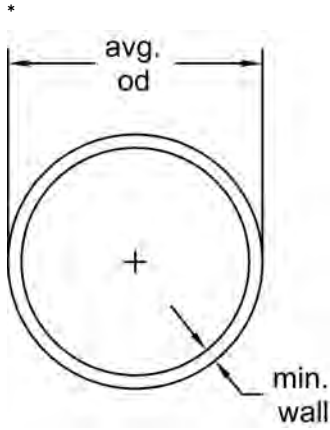
ASTM F 1498 : PVC Schedule 40 Taper Threads

ASTM D 2672 : PVC Schedule 40 Tapered Sockets for Bell End Pipe

ANSI B1.20.1 : PVC Schedule 40 NPT Threads

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Harvel® Industrial PVC Pressure Pipe

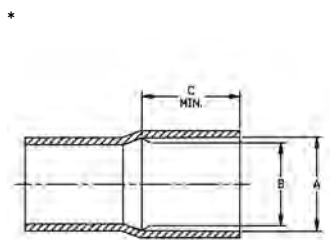


Plain End Pipe - 20 ft lengths

- Refer to Industrial PLUS for sizes 3-1/2", 5", 14"-24"
- Max Water Pressure at 73°F (22.7°C) with solvent-cemented joints
- Meets NSF[®]-pw-G
- Non - CSA Approved

Size (inch)	P/L	Plain End Part No.	USD
½	H17	*H0400050PW2000	2.33
¾	H17	*H0400075PW2000	2.92
1	H17	*H0400100PW2000	4.02
1 ¼	H17	*H0400125PW2000	4.93
1 ½	H17	*H0400150PW2000	5.83
2	H17	*H0400200PW2000	7.78
2 ½	H17	*H0400250PW2000	12.57
3	H17	*H0400300PW2000	15.94
4	H17	*H0400400PW2000	22.23
6	H17	*H0400600PW2000	40.70
8	H17	*H0400800PW2000	60.99
10	H17	*H0401000PW2000	85.68
12	H17	*H0401200PW2000	112.78

Lift Qty (ft)	Average O.D. (inch)	Min. Wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
5700	0.840	0.109	0.161	600
5260	1.050	0.113	0.214	480
4280	1.315	0.133	0.315	450
2360	1.660	0.140	0.426	370
2060	1.900	0.145	0.509	330
1660	2.375	0.154	0.682	280
1080	2.875	0.203	1.076	300
840	3.500	0.216	1.409	260
520	4.500	0.237	2.006	220
340	6.625	0.280	3.535	180
220	8.625	0.322	5.305	160
80	10.750	10.750	7.532	140
60	12.750	12.750	9.949	130

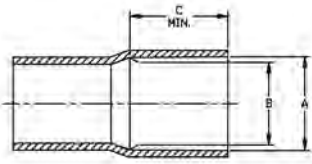


Belled End Pipe - 20 ft lengths

Size (inch)	P/L	Belled End Part No.	USD
½	H17	*H0400050PW200B	2.33
¾	H17	*H0400075PW200B	2.92
1	H17	*H0400100PW200B	4.02
1 ¼	H17	*H0400125PW200B	5.25
1 ½	H17	*H0400150PW200B	6.09
2	H17	*H0400200PW200B	8.04
2 ½	H17	*H0400250PW200B	13.22
3	H17	*H0400300PW200B	16.79
4	H17	*H0400400PW200B	23.46
6	H17	*H0400600PW200B	42.84
8	H17	*H0400800PW200B	64.17
10	H17	*H0401000PW200B	90.16
12	H17	*H0401200PW200B	118.74

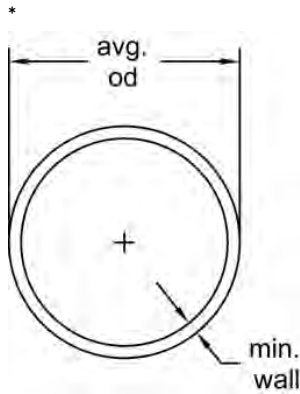
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A-Socket Entrance (Belled Pipe)	B-Socket Bottom (Belled Pipe)	C-Min. (Belled Pipe)
0.848±0.004	0.836±0.004	1.000
1.058±0.004	1.046±0.004	1.250
1.325±0.005	1.310±0.005	1.500
1.670±0.005	1.655±0.005	1.750
1.912±0.006	1.894±0.006	2.000
2.387±0.006	2.363±0.006	2.250
2.889±0.007	2.861±0.007	2.500
3.516±0.008	3.484±0.008	3.250
4.518±0.009	4.482±0.009	4.000
6.647±0.011	6.603±0.011	6.000
8.655±0.015	8.598±0.015	6.000
10.776±0.015	10.722±0.015	7.500
12.778±0.015	12.721±0.015	8.500

Harvel® Industrial PLUS PVC Pressure Pipe



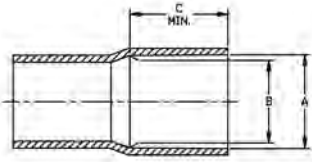
Plain End Pipe - 20 ft lengths

- Max Water Pressure at 73°F (22.7°C) with solvent-cemented joints
- Meets NSF[®]-pw-G
- Meets CAN/CSA B137.3 Requirements

Size (inch)	P/L	Plain End Part No.	USD
½	H51	*HX400050PW2000	2.59
¾	H51	*HX400075PW2000	3.24
1	H51	*HX400100PW2000	4.46
1 ¼	H51	*HX400125PW2000	5.47
1 ½	H51	*HX400150PW2000	6.48
2	H51	*HX400200PW2000	8.64
2 ½	H51	*HX400250PW2000	13.97
3	H51	*HX400300PW2000	17.72
3 ½	H51	*H0400350PW2000	30.59
4	H51	*HX400400PW2000	24.71
5	H51	*H0400500PW2000	48.65
6	H51	*HX400600PW2000	45.23
8	H51	*HX400800PW2000	67.77
10	H51	*HX401000PW2000	95.20
12	H51	*HX401200PW2000	125.31
14	H51	*H0401400PW2000	174.09
16	H51	*H0401600PW2000	219.46
18	H51	*H0401800PW2000	331.46
20	H51	*H0402000PW2000	387.97
24	H51	*H0402400PW2000	557.72

Size (inch)	Lift Qty (ft)	Average O.D. (inch)	Min. Wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
½	5700	0.840	0.109	0.161	600
¾	5260	1.050	0.113	0.214	480
1	4280	1.315	0.133	0.315	450
1 ¼	2360	1.660	0.140	0.426	370
1 ½	2060	1.900	0.145	0.509	330
2	1660	2.375	0.154	0.682	280
2 ½	1080	2.875	0.203	1.076	300
3	840	3.500	0.216	1.409	260
3 ½	680	4.000	0.226	1.697	240
4	520	4.500	0.237	2.006	220
5	400	5.563	0.258	2.726	190
6	340	6.625	0.280	3.535	180
8	220	8.625	0.322	5.305	160
10	80	10.750	0.365	7.532	140
12	60	12.750	0.406	9.949	130
14	60	14.000	0.437	11.810	130
16	60	16.000	0.500	15.416	130
18	60	18.000	0.562	20.112	130
20	40	20.000	0.593	23.624	120
24	40	24.000	0.687	32.873	120

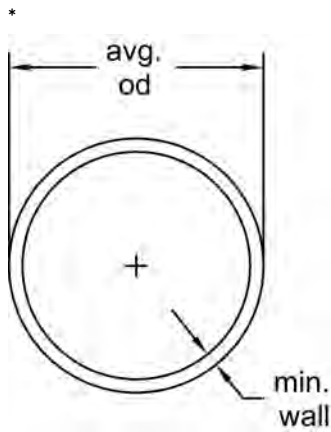
Belled End Pipe - 20 ft lengths



Size (inch)	P/L	Belled End Part No.	USD
½	H51	*HX400050PW200B	2.59
¾	H51	*HX400075PW200B	3.24
1	H51	*HX400100PW200B	4.46
1 ¼	H51	*HX400125PW200B	5.83
1 ½	H51	*HX400150PW200B	6.76
2	H51	*HX400200PW200B	8.93
2 ½	H51	*HX400250PW200B	14.69
3	H51	*HX400300PW200B	18.65
3 ½	H51	*H0400350PW200B	32.15
4	H51	*HX400400PW200B	26.07
5	H51	*H0400500PW200B	51.20
6	H51	*HX400600PW200B	47.60
8	H51	*HX400800PW200B	71.29
10	H51	*HX401000PW200B	100.17
12	H51	*HX401200PW200B	131.94
14	H51	*H0401400PW200B	183.16
16	H51	*H0401600PW200B	230.87
18	H51	*H0401800PW200B	348.83
20	H51	*H0402000PW200B	404.63
24	H51	*H0402400PW200B	585.27

A-Socket Entrance (Belled Pipe)	B-Socket Bottom (Belled Pipe)	C-Min. (Belled Pipe)
0.848±0.004	0.836±0.004	1.000
1.058±0.004	1.046±0.004	1.250
1.325±0.005	1.310±0.005	1.500
1.670±0.005	1.655±0.005	1.750
1.912±0.006	1.894±0.006	2.000
2.387±0.006	2.363±0.006	2.250
2.889±0.007	2.861±0.007	2.500
3.516±0.008	3.484±0.008	3.250
4.016±0.008	3.984±0.008	3.500
4.518±0.009	4.482±0.009	4.000
5.583±0.010	5.543±0.010	4.000
6.647±0.011	6.603±0.011	6.000
8.655±0.015	8.598±0.015	6.000
10.776±0.015	10.722±0.015	7.500
12.778±0.015	12.721±0.015	8.500
14.035±0.015	13.985±0.015	9.000
16.045±0.015	15.980±0.015	10.000
18.055±0.020	17.980±0.020	12.000
20.065±0.025	19.980±0.025	12.000
24.075±0.030	23.970±0.030	12.000

Harvel® Schedule 40 PVC Pressure Pipe - Gray



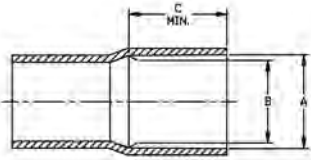
Plain End Pipe - 20 ft lengths

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

Size (inch)	P/L	Plain End Part No.	USD
1/8	H16	*H0400013PG2000	1.89
1/4	H16	*H0400025PG2000	2.47
3/8	H16	*H0400038PG2000	3.33
1/2	H16	*H0400050PG2000	2.02
3/4	H16	*H0400075PG2000	2.69
1	H16	*H0400100PG2000	3.94
1 1/4	H16	*H0400125PG2000	5.34
1 1/2	H16	*H0400150PG2000	5.98
2	H16	*H0400200PG2000	8.00
2 1/2	H16	*H0400250PG2000	13.93
3	H16	*H0400300PG2000	16.48
3 1/2	H16	*H0400350PG2000	29.40
4	H16	*H0400400PG2000	23.49
5	H16	*H0400500PG2000	36.09
6	H16	*H0400600PG2000	41.40
8	H16	*H0400800PG2000	62.14
10	H16	*H0401000PG2000	88.22
12	H16	*H0401200PG2000	116.55
14	H16	*H0401400PG2000	144.35
16	H16	*H0401600PG2000	188.44
18	H16	*H0401800PG2000	266.33
20	H16	*H0402000PG2000	312.84
24	H16	*H0402400PG2000	435.33

Size (inch)	Lift Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
1/8	5700	0.405	0.068	0.045	810
1/4	5700	0.540	0.088	0.081	780
3/8	5700	0.675	0.091	0.109	620
1/2	5700	0.840	0.109	0.161	600
3/4	5260	1.050	0.113	0.214	480
1	4280	1.315	0.133	0.315	450
1 1/4	2360	1.660	0.140	0.426	370
1 1/2	2060	1.900	0.145	0.509	330
2	1660	2.375	0.154	0.682	280
2 1/2	1080	2.875	0.203	1.076	300
3	840	3.500	0.216	1.409	260
3 1/2	680	4.000	0.226	1.697	240
4	520	4.500	0.237	2.006	220
5	400	5.563	0.258	2.726	190
6	340	6.625	0.280	3.535	180
8	220	8.625	0.332	5.305	160
10	80	10.750	0.365	7.532	140
12	60	12.750	0.406	9.949	130
14	60	14.000	0.437	11.810	130
16	60	16.000	0.500	15.416	130
18	40	18.000	0.562	20.112	130
20	40	20.000	0.593	23.624	120
24	40	24.000	0.687	32.873	120

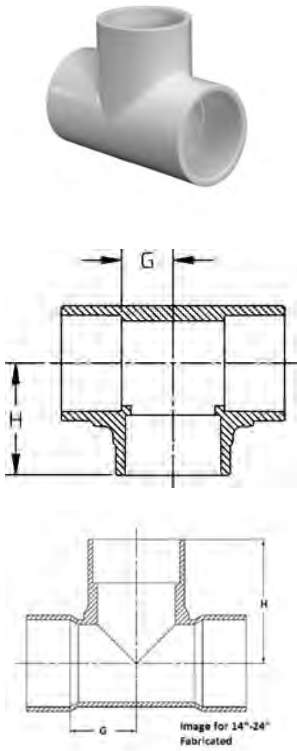
Belled End Pipe - 20 ft lengths



Size (inch)	P/L	Belled End Part No.	USD	A-Socket Entrance (Belled Pipe)	B-Socket Bottom (Belled Pipe)	C-Min. (Belled Pipe)
½	H16	* H0400050PG200B	2.12	0.848±0.004	0.836±0.004	1.000
¾	H16	* H0400075PG200B	2.84	1.058±0.004	1.046±0.004	1.250
1	H16	* H0400100PG200B	4.15	1.325±0.005	1.310±0.005	1.500
1 ¼	H16	* H0400125PG200B	5.62	1.670±0.005	1.655±0.005	1.750
1 ½	H16	* H0400150PG200B	6.30	1.912±0.005	1.894±0.006	2.000
2	H16	* H0400200PG200B	8.41	2.387±0.006	2.363±0.006	2.250
2 ½	H16	* H0400250PG200B	14.65	2.889±0.007	2.861±0.007	2.500
3	H16	* H0400300PG200B	17.36	3.516±0.008	3.484±0.008	3.250
3 ½	H16	H0400350PG200B	Call	4.016±0.008	3.984±0.008	3.500
4	H16	* H0400400PG200B	24.74	4.518±0.009	4.482±0.009	4.000
5	H16	* H0400500PG200B	38.00	5.583±0.010	5.543±0.010	4.000
6	H16	* H0400600PG200B	43.58	6.647±0.011	6.603±0.011	6.000
8	H16	* H0400800PG200B	65.41	8.655±0.015	8.598±0.015	6.000
10	H16	* H0401000PG200B	92.85	10.776±0.015	10.722±0.015	7.500
12	H16	* H0401200PG200B	122.68	12.778±0.015	12.721±0.015	8.500
14	H16	* H0401400PG200B	151.94	14.035±0.015	13.985±0.015	9.000
16	H16	* H0401600PG200B	198.36	16.045±0.015	15.980±0.015	10.000
18	H16	* H0401800PG200B	280.34	18.055±0.020	17.980±0.020	12.000
20	H16	* H0402000PG200B	329.30	20.065±0.025	19.980±0.025	12.000
24	H16	* H0402400PG200B	458.23	24.075±0.030	23.970±0.030	12.000

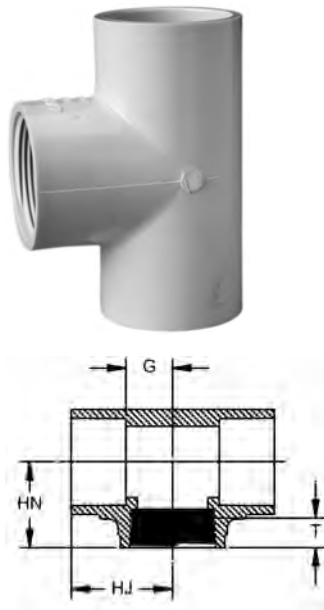
Schedule 40 PVC Pressure Fittings

Tee (S x S x S)

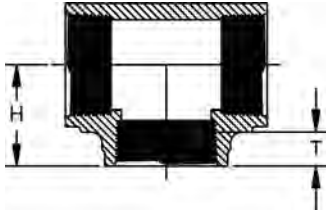


Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	G (inch)	Design
½	601	401-005	0.94	50	1.25	0.38	
¾	601	401-007	1.07	50	1.38	0.56	
1	601	401-010	2.01	50	1.69	0.69	
1 ¼	601	401-012	3.15	25	2.13	0.88	
1 ½	601	401-015	3.82	25	2.31	1.00	
2	601	401-020	5.56	25	2.63	1.25	
2 ½	601	401-025	18.34	10	3.50	1.50	
3	601	401-030	24.08	10	3.81	1.81	
4	601	401-040	43.57	5	4.31	2.31	
6	601	401-060	146.61	4	7.06	3.50	
8	601	401-080	340.06	2	9.00	4.50	
10	B09	401-100	1,126.80	1	10.94	5.88	
12	B09	401-120	1,664.91	1	13.06	7.00	
14	A32	* 401-140N	1,733.12	1	19.38	10.06	FAB
16	A32	* 401-160N	2,508.77	1	21.63	11.75	FAB
18	A32	* 401-180N	3,047.44	1	24.50	12.88	FAB
20	A32	* 401-200N	3,713.89	1	26.25	14.31	FAB
24	A32	* 401-240N	5,048.35	1	33.13	16.75	FAB

Tee (S x S X FPT)

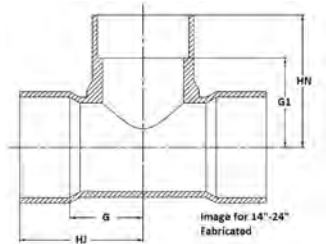
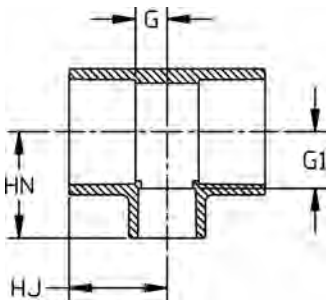


Size (inch)	P/L	Part No.	USD	Pack Qty	HJ (inch)	HN (inch)	G (inch)	T (inch)
½	601	402-005	1.24	50	1.25	1.25	0.50	0.75
¾	601	402-007	1.94	50	1.38	1.38	0.56	0.81
1	601	402-010	3.57	50	1.69	1.69	0.69	1.00
1 ¼	601	402-012	5.67	25	2.13	2.13	0.88	0.94
1 ½	601	402-015	7.37	25	2.31	2.31	1.00	0.88
2	601	402-020	9.35	10	2.63	2.19	1.25	0.94
3	601	402-030	36.24	10	3.81	3.19	1.81	1.44
4	601	402-040	55.40	5	4.31	4.00	2.31	1.69



Tee (FPT x FPT x FPT)

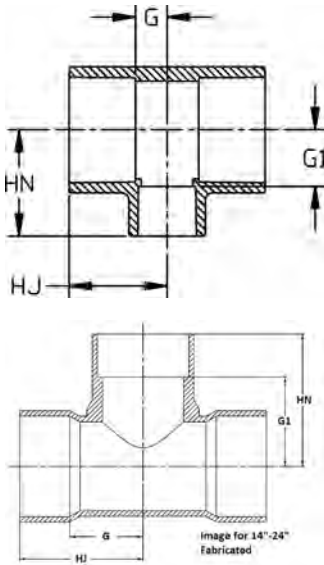
Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	T (inch)
½	601	405-005	3.42	50	1.25	0.72
¾	601	405-007	5.40	50	1.38	0.81
1	601	405-010	7.48	50	1.69	1.00
1 ¼	601	405-012	10.34	25	2.13	0.88
1 ½	601	405-015	10.65	25	2.31	1.31



Reducing Tee (S x S x S)

Size (inch)	P/L	Part No.	USD	Pack Qty	HJ (inch)	HN (inch)	G (inch)	G1 (inch)	Design
¾ x ½ x ½	601	401-094	1.81	50	1.31	1.31	0.50	0.56	
¾ x ½ x ¾	601	401-095	1.81	50	1.31	1.31	0.56	0.56	
¾ x ¾ x ½	601	401-101	1.24	50	1.31	1.38	0.50	0.63	
¾ x ¾ x 1	601	401-102	3.57	50	1.50	1.56	0.69	0.56	
1 x ½ x 1	601	401-122	3.57	50	1.69	1.69	0.69	0.75	
1 x ¾ x ¾	601	401-125	3.57	50	1.56	1.44	0.53	0.69	
1 x ¾ x 1	601	401-126	3.57	50	1.69	1.69	0.75	0.69	
1 x 1 x ½	601	401-130	2.12	50	1.50	1.50	0.50	0.69	
1 x 1 x ¾	601	401-131	2.32	50	1.56	1.50	0.56	0.69	
1 x 1 x 1 ¼	601	401-132	4.77	50	1.88	1.94	0.88	0.69	
1 x 1 x 1 ½	601	401-133	5.76	25	2.00	2.00	1.00	0.69	
1 ¼ x 1 x ¾	601	401-157	4.86	25	2.06	1.63	0.88	0.88	
1 ¼ x 1 x 1	601	401-158	4.86	25	2.06	2.00	0.88	0.88	
1 ¼ x 1 ¼ x ½	601	401-166	3.44	25	1.75	1.63	1.25	0.88	
1 ¼ x 1 ¼ x ¾	601	401-167	3.44	25	1.88	1.69	0.56	0.88	
1 ¼ x 1 ¼ x 1	601	401-168	3.44	25	1.94	1.88	0.69	0.88	
1 ½ x 1 ½ x ½	601	401-209	6.05	25	1.81	1.81	0.50	1.00	
1 ½ x 1 ½ x ¾	601	401-210	6.05	25	1.94	1.81	0.63	1.00	
1 ½ x 1 ½ x 1	601	401-211	6.05	25	2.00	2.00	0.69	1.00	
1 ½ x 1 ½ x 1 ¼	601	401-212	6.05	25	2.19	2.25	0.88	1.06	
2 x 1 ½ x ¾	601	401-238	8.64	10	2.00	2.06	0.56	1.25	
2 x 1 ½ x 1	601	401-239	8.64	10	2.63	2.25	1.25	1.19	
2 x 2 x ½	601	401-247	5.95	10	1.88	2.00	0.50	1.25	
2 x 2 x ¾	601	401-248	5.95	10	2.00	2.00	0.56	1.25	
2 x 2 x 1	601	401-249	5.95	10	2.06	2.25	0.69	1.25	
2 x 2 x 1 ¼	601	401-250	5.95	10	2.25	2.50	0.88	1.25	
2 x 2 x 1 ½	601	401-251	5.95	10	2.38	2.56	1.00	1.25	
2 ½ x 2 ½ x ¾	601	401-288	18.29	10	2.44	2.31	0.56	1.50	
2 ½ x 2 ½ x 1	601	401-289	18.29	10	2.56	2.63	0.69	1.50	
2 ½ x 2 ½ x 1 ¼	601	401-290	18.29	10	2.88	2.75	0.88	1.50	
2 ½ x 2 ½ x 1 ½	601	401-291	18.29	10	3.13	2.75	1.00	1.50	
2 ½ x 2 ½ x 2	601	401-292	18.29	10	3.13	2.88	1.25	1.50	
3 x 3 x ¾	601	401-334	26.19	10	2.56	2.56	0.56	1.81	
3 x 3 x 1	601	401-335	26.19	10	2.69	2.88	0.69	1.81	
3 x 3 x 1 ¼	601	401-336	26.19	10	2.88	3.06	0.88	1.81	
3 x 3 x 1 ½	601	401-337	26.19	10	3.00	3.19	1.00	1.81	
3 x 3 x 2	601	401-338	26.15	10	3.25	3.19	1.25	1.81	
4 x 4 x ¾	601	401-416	43.57	4	2.56	3.00	0.56	2.31	
4 x 4 x 1	601	401-417	43.57	4	2.75	3.31	0.69	2.31	
4 x 4 x 1 ¼	601	401-418	43.57	5	2.88	3.56	0.88	2.31	
4 x 4 x 2	601	401-420	43.57	5	3.25	3.69	1.25	2.31	
4 x 4 x 1 ½	601	401-419	43.57	5	3.00	3.63	1.00	2.31	
4 x 4 x 3	601	401-422	43.57	5	3.81	4.38	1.81	2.31	

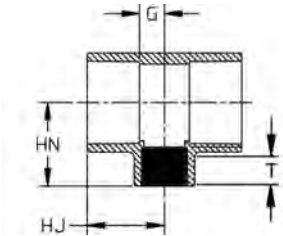
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Size (inch)	P/L	Part No.	USD	Pack Qty	HJ (inch)	HN (inch)	G (inch)	G1 (inch)	Design
6 x 6 x 2	601	401-528	146.62	5	4.75	4.94	1.25	3.50	
6 x 6 x 3	601	401-530	146.61	5	5.38	5.56	1.81	3.56	
6 x 6 x 4	601	401-532	146.61	5	5.88	5.56	2.38	3.50	
8 x 8 x 4	601	401-582	340.06	2	6.81	6.94	2.31	4.88	
8 x 8 x 6	601	401-585	340.06	2	8.00	8.06	3.50	4.50	
10 x 10 x 6	B09	401-626	965.64	1	10.50	8.94	5.44	5.94	
10 x 10 x 8	B09	401-628	1,236.32	1	10.50	9.88	5.44	5.88	
12 x 12 x 4	B09	401-664	1,580.57	1	11.50	9.00	5.44	6.94	
12 x 12 x 6	B09	401-666	1,580.56	1	11.50	10.00	5.44	6.94	
12 x 12 x 8	B09	401-668	1,384.04	1	11.50	11.00	5.44	7.00	
12 x 12 x 10	B09	401-670	2,173.91	1	13.06	13.50	7.00	8.44	
14 x 14 x 4	A32	*401-696N	1,178.64	1	12.18	12.00	5.18	10.00	FAB
14 x 14 x 6	A32	*401-698N	1,248.99	1	13.12	13.63	6.12	10.63	FAB
14 x 14 x 8	A32	*401-700N	1,316.25	1	14.25	15.25	7.25	11.75	FAB
14 x 14 x 10	A32	*401-702N	1,540.52	1	15.31	16.75	8.31	11.75	FAB
14 x 14 x 12	A32	*401-704N	1,749.85	1	16.00	18.00	9.00	12.00	FAB
16 x 16 x 4	A32	*401-730N	1,264.26	1	14.00	13.38	6.00	11.38	FAB
16 x 16 x 6	A32	*401-732N	1,348.14	1	15.00	14.50	7.00	11.50	FAB
16 x 16 x 8	A32	*401-734N	1,481.80	1	16.00	16.25	8.00	12.25	FAB
16 x 16 x 10	A32	*401-736N	1,615.29	1	16.50	17.75	8.50	12.75	FAB
16 x 16 x 12	A32	*401-738N	1,881.80	1	19.25	19.50	9.63	13.50	FAB
16 x 16 x 14	A32	*401-740N	2,249.81	1	19.18	20.50	11.18	13.50	FAB
18 x 18 x 6	A32	*401-786N	1,494.54	1	15.63	15.75	6.63	12.75	FAB
18 x 18 x 8	A32	*401-788N	1,639.86	1	16.63	17.00	7.63	13.00	FAB
18 x 18 x 10	A32	*401-790N	1,949.33	1	17.75	18.38	8.75	13.38	FAB
18 x 18 x 12	A32	*401-792N	2,021.41	1	18.75	20.50	9.75	14.50	FAB
18 x 18 x 14	A32	*401-794N	2,666.08	1	19.56	21.38	10.56	14.38	FAB
18 x 18 x 16	A32	*401-796N	3,060.55	1	20.63	22.50	11.63	14.50	FAB
20 x 20 x 8	A32	*401-818N	1,737.91	1	18.94	18.13	8.94	14.13	FAB
20 x 20 x 10	A32	*401-820N	2,153.14	1	19.69	19.75	9.69	14.75	FAB
20 x 20 x 12	A32	*401-822N	2,344.01	1	21.00	21.13	11.00	15.13	FAB
20 x 20 x 14	A32	*401-824N	2,962.32	1	21.63	22.75	11.63	15.75	FAB
20 x 20 x 16	A32	*401-826N	3,496.98	1	23.00	24.50	13.00	16.50	FAB
20 x 20 x 18	A32	*401-828N	3,886.74	1	23.81	24.50	13.81	15.50	FAB
24 x 24 x 6	A32	*401-906N	3,361.29	1	27.75	18.50	7.88	15.50	FAB
24 x 24 x 8	A32	*401-908N	3,510.02	1	20.69	20.50	8.69	16.50	FAB
24 x 24 x 10	A32	*401-910N	3,586.98	1	21.88	21.63	9.88	16.63	FAB
24 x 24 x 12	A32	*401-912N	3,688.60	1	23.00	23.00	11.00	17.00	FAB
24 x 24 x 14	A32	*401-914N	3,959.87	1	23.88	25.00	11.88	18.00	FAB
24 x 24 x 16	A32	*401-916N	4,160.33	1	24.94	26.31	12.94	18.31	FAB
24 x 24 x 18	A32	*401-918N	4,546.18	1	25.88	27.75	13.88	18.75	FAB
24 x 24 x 20	A32	*401-920N	4,882.46	1	26.94	30.00	14.94	20.00	FAB



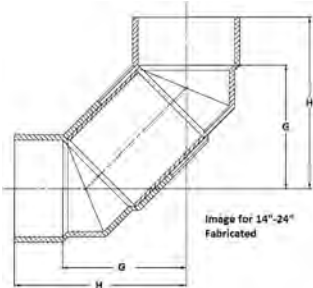
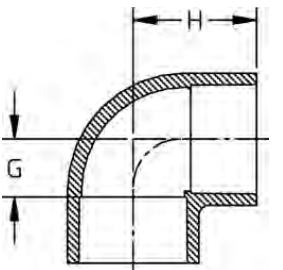
Reducing Tee (S x S x FPT)



Size (inch)	P/L	Part No.	USD	Pack Qty	HJ (inch)	HN (inch)	G (inch)	T (inch)
¾ x ¾ x ½	601	402-101	1.64	50	1.31	1.31	0.50	0.75
1 x 1 x ½	601	402-130	2.51	50	1.50	1.43	0.50	0.69
1 x 1 x ¾	601	402-131	3.57	50	1.56	1.50	0.56	0.75
1 ¼ x 1 ¼ x ¾	601	402-167	5.95	25	1.81	1.63	0.56	0.69
1 ¼ x 1 ¼ x 1	601	402-168	5.95	25	1.94	1.88	0.69	0.88
1 ½ x 1 ½ x ½	601	402-209	7.37	25	1.81	1.75	0.50	0.75
1 ½ x 1 ½ x ¾	601	402-210	7.37	25	1.88	1.81	0.56	0.69
1 ½ x 1 ½ x 1	601	402-211	7.37	25	2.00	2.00	0.69	1.00
1 ½ x 1 ½ x 1 ¼	601	402-212	7.37	25	2.19	2.25	0.88	1.25
2 x 2 x ½	601	402-247	9.27	10	1.88	2.00	0.50	0.75
2 x 2 x ¾	601	402-248	9.27	10	2.00	2.06	0.56	0.81
2 x 2 x 1	601	402-249	9.27	10	2.06	2.25	0.69	1.00
2 x 2 x 1 ¼	601	402-250	9.27	10	2.25	2.50	0.88	0.94
2 x 2 x 1 ½	601	402-251	9.27	10	2.38	2.56	1.00	0.94
2 ½ x 2 ½ x 1 ½	601	402-291	20.08	10	3.00	2.50	1.00	1.00
2 ½ x 2 ½ x 2	601	402-292	20.08	10	3.25	2.88	1.25	1.06
3 x 3 x 1 ½	601	402-337	28.72	10	6.00	2.81	1.00	0.94
3 x 3 x 2	601	402-338	28.72	10	6.56	2.88	1.25	1.06
4 x 4 x 1 ½	601	402-419	47.96	5	6.06	3.69	1.00	1.38
4 x 4 x 2	601	402-420	47.96	5	6.50	3.38	1.25	1.13
4 x 4 x 3	601	402-422	47.96	5	7.63	4.63	1.81	1.63
6 x 6 x 3	601	402-530	162.57	5	10.69	5.50	2.31	2.00
6 x 6 x 4	601	402-532	162.57	5	11.69	5.50	2.31	2.00



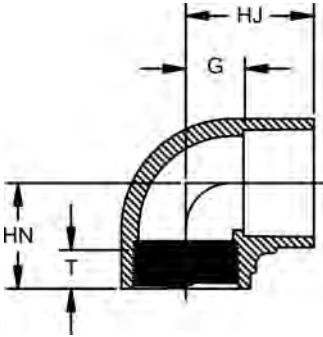
90° Ell (S x S)



Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	G (inch)	Design
½	601	406-005	0.76	50	1.25	0.50	
¾	601	406-007	0.85	50	1.38	0.56	
1	601	406-010	1.52	50	1.69	0.69	
1 ¼	601	406-012	2.69	25	2.13	0.88	
1 ½	601	406-015	2.87	25	2.25	1.00	
2	601	406-020	4.49	25	2.56	1.25	
2 ½	601	406-025	13.71	10	3.50	1.50	
3	601	406-030	16.41	10	3.81	1.81	
4	601	406-040	29.36	5	4.38	2.31	
6	601	406-060	93.31	4	7.00	3.50	
8	601	406-080	240.33	3	9.00	4.50	
10	B09	406-100	905.17	1	11.19	6.19	
12	B09	406-120	1,214.01	1	13.25	7.19	
14	A32	* 406-140N	1,077.68	1	23.88	16.88	FAB
16	A32	* 406-160N	1,542.12	1	26.50	18.50	FAB
18	A32	* 406-180N	1,655.44	1	30.38	21.38	FAB
20	A32	* 406-200N	2,504.20	1	34.00	24.00	FAB
24	A32	* 406-240N	3,752.77	1	39.63	27.63	FAB



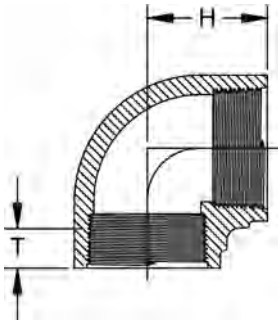
90° Ell (S x FPT)



Size (inch)	P/L	Part No.	USD	Pack Qty	HJ (inch)	HN (inch)	G (inch)	T (inch)
½	601	407-005	0.93	50	1.25	1.19	0.50	0.75
¾	601	407-007	1.07	50	1.38	1.38	0.63	0.81
1	601	407-010	2.01	50	1.63	1.69	0.69	1.00
1 ¼	601	407-012	3.37	25	2.19	1.81	0.88	0.88
1 ½	601	407-015	3.74	25	2.31	2.31	1.00	1.31
2	601	407-020	9.64	10	2.63	2.63	1.25	1.38
2 ½	601	407-025	23.82	10	3.38	2.75	1.50	1.25
3	601	407-030	35.71	10	3.75	3.19	1.75	1.56
4	601	407-040	54.12	5	4.38	4.19	2.38	0.88



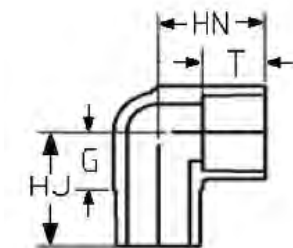
90° Ell (FPT x FPT)



Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	T (inch)
½	601	^ 408-005	1.81	50	1.31	0.81
¾	601	^ 408-007	2.71	50	1.38	0.81
1	601	^ 408-010	5.74	50	1.69	1.00
1 ¼	601	^ 408-012	6.15	25	2.13	1.19
1 ½	601	^ 408-015	7.78	25	2.31	1.38
2	601	^ 408-020	11.79	10	2.63	1.38



90° Street Ell (S x SPG)

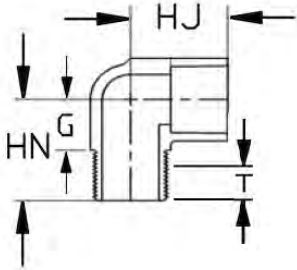


Size (inch)	P/L	Part No.	USD	Pack Qty	HJ (inch)	HN (inch)	G (inch)	T (inch)
½	601	409-005	2.12	50	1.31	1.13	0.56	0.81
¾	601	409-007	2.60	50	1.63	1.25	0.81	0.75
1	601	409-010	4.49	50	1.88	1.44	0.88	0.88
1 ¼	601	409-012	5.40	25	2.38	2.13	1.06	1.31
1 ½	601	409-015	5.95	25	2.63	2.31	1.25	1.31
2	601	409-020	11.46	10	2.88	2.63	1.44	1.38
2 ½	601	409-025	20.58	10	4.06	3.38	2.00	1.94
3	601	409-030	25.40	10	4.44	4.19	2.31	2.00



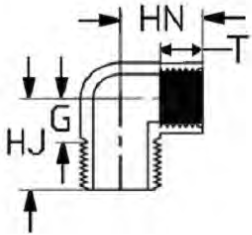
90° Street Ell (S x MPT)

Size (inch)	P/L	Part No.	USD	Pack Qty	HJ (inch)	HN (inch)	G (inch)	T (inch)
½	601	^ 410-005	1.64	50	1.25	1.31	0.69	0.63
¾	601	^ 410-007	1.94	50	1.25	1.56	0.75	0.81
1	601	^ 410-010	3.21	50	1.56	1.88	1.00	0.88
1 ¼	601	^ 410-012	4.49	25	2.06	1.94	1.13	0.81
1 ½	601	^ 410-015	4.71	25	2.31	2.31	1.25	1.06
2	601	^ 410-020	11.59	10	2.69	2.25	1.50	0.75



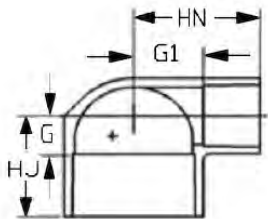
90° Street Ell (FPT x MPT)

Size (inch)	P/L	Part No.	USD	Pack Qty	HJ (inch)	HN (inch)	G (inch)	T (inch)
½	601	^ 412-005	2.22	50	1.44	1.06	0.81	0.31
¾	601	^ 412-007	2.71	50	1.63	1.19	0.81	0.44
1	601	^ 412-010	4.61	50	1.88	1.44	0.88	0.56
1 ¼	601	^ 412-012	5.74	25	1.94	2.13	1.13	1.19
1 ½	601	^ 412-015	6.23	25	2.31	2.31	1.25	1.31
2	601	^ 412-020	9.18	10	2.75	2.31	1.56	1.06



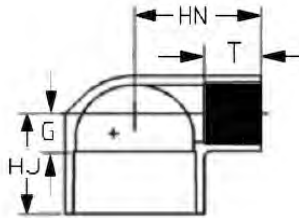
Reducing 90° Ell (S x S)

Size (inch)	P/L	Part No.	USD	Pack Qty	HJ (inch)	HN (inch)	G (inch)	G1 (inch)
¾ x ½	601	406-101	1.52	50	1.31	1.31	0.50	0.56
1 x ½	601	406-130	2.24	50	1.50	1.38	0.50	0.69
1 x ¾	601	406-131	2.71	50	1.56	1.50	0.56	0.69





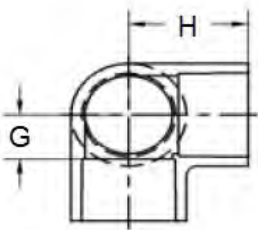
Reducing 90° Ell (S x FPT)



Size (inch)	P/L	Part No.	USD	Pack Qty	HJ (inch)	HN (inch)	G (inch)	T (inch)
¾ x ½	601	407-101	1.12	50	1.38	1.25	0.56	0.68
1 x ½	601	407-130	3.09	50	1.56	1.38	0.56	0.69
1 x ¾	601	407-131	3.09	50	1.56	1.50	0.56	0.81
1 ¼ x 1	601	407-168	4.49	25	1.94	1.88	0.69	1.00
1 ½ x 1	601	407-211	7.51	25	1.94	2.75	1.06	1.00
1 ½ x 1 ¼	601	407-212	7.78	25	2.19	2.25	0.88	0.94
2 x 1	601	407-249	12.94	25	2.19	2.44	0.81	0.88
2 x 1 ¼	601	407-250	12.94	10	2.25	2.44	0.88	0.88
2 x 1 ½	601	407-251	12.94	10	2.44	2.63	1.06	0.94



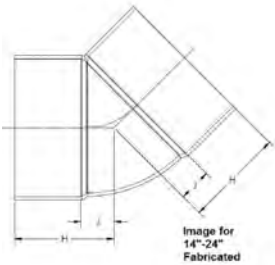
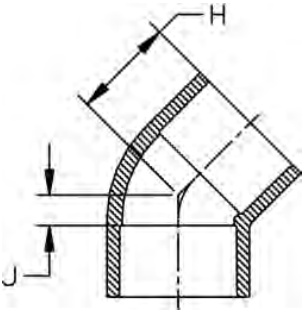
Side Outlet Elbow (S x S x S)



Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	G (inch)
½	601	^ 413-005	4.07	50	1.31	0.56
¾	601	^ 413-007	5.56	50	1.38	0.56
1	601	^ 413-010	7.11	25	1.69	0.69
1 ½	601	^ 413-015	7.80	25	2.44	1.00
2	601	^ 413-020	10.82	10	2.63	1.25

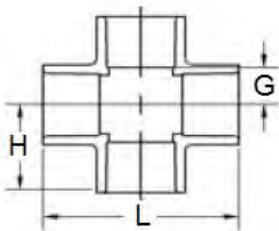


45° Ell (S x S)



Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	J (inch)	Design
½	601	417-005	1.24	50	1.06	0.25	
¾	601	417-007	1.94	50	1.19	0.38	
1	601	417-010	2.32	50	1.44	0.31	
1 ¼	601	417-012	3.21	25	1.63	0.38	
1 ½	601	417-015	4.04	25	1.69	0.44	
2	601	417-020	5.26	25	2.00	0.69	
2 ½	601	417-025	13.74	10	2.69	0.69	
3	601	417-030	21.32	10	2.75	0.75	
4	601	417-040	38.24	5	3.00	1.00	
6	601	417-060	94.45	4	5.38	1.81	
8	601	417-080	227.16	4	6.50	2.00	
10	B09	417-100	591.35	1	8.06	3.06	
12	B09	417-120	876.29	1	9.56	3.50	
14	A32	*417-140N	715.86	1	10.00	3.00	FAB
16	A32	*417-160N	946.09	1	11.63	3.63	FAB
18	A32	*417-180N	1,000.34	1	13.13	4.13	FAB
20	A32	*417-200N	1,295.81	1	14.50	4.50	FAB
24	A32	*417-240N	2,085.04	1	16.75	4.75	FAB

Cross (S x S x S x S)

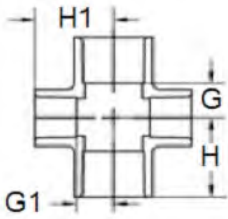


Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	H (inch)	G (inch)
½	601	^ 420-005	2.87	50	2.44	1.19	0.50
¾	601	^ 420-007	4.78	50	2.63	1.31	0.56
1	601	^ 420-010	5.95	50	3.38	1.69	0.69
1 ¼	601	^ 420-012	7.85	25	4.25	2.13	0.88
1 ½	601	^ 420-015	8.91	25	4.63	2.31	1.00
2	601	^ 420-020	13.14	10	5.25	2.63	1.25
2 ½	601	^ 420-025	27.85	8	7.00	3.50	1.50
3	601	^ 420-030	34.15	10	7.63	3.81	1.81
4	601	^ 420-040	50.61	5	8.69	4.31	2.31



Reducing Cross (S x S x S x S)

Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	H1 (inch)	G (inch)	G1 (inch)
3 x 1 1/2	601	^ 420-337	50.98	10	3.00	3.13	1.00	1.81
3 x 2	601	^ 420-338	29.85	10	3.25	3.19	1.25	1.81
4 x 1 1/2	601	^ 420-419	49.89	5	3.00	3.63	1.00	2.31
4 x 2	601	^ 420-420	87.97	5	3.25	3.69	1.25	2.31



Coupling (S x S)

Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	N (inch)	Design
1/2	601	429-005	0.49	100	1.69	0.13	
3/4	601	429-007	0.68	50	1.69	0.13	
1	601	429-010	1.20	50	2.06	0.13	
1 1/4	601	429-012	1.64	25	2.63	0.13	
1 1/2	601	429-015	1.75	25	2.75	0.13	
2	601	429-020	2.71	25	2.88	0.13	
2 1/2	601	429-025	5.95	10	4.06	0.19	
3	601	429-030	9.31	10	4.19	0.19	
4	601	429-040	13.46	5	4.25	0.19	
6	601	429-060	42.58	5	7.31	0.31	
8	601	429-080	79.52	4	9.25	0.25	
10	B09	429-100	231.76	1	10.31	0.31	
12	B09	429-120	461.75	1	12.38	0.31	
14	A32	* 429-140N	237.48	1	16.50	2.50	FAB
16	A32	* 429-160N	264.87	1	19.00	3.00	FAB
18	A32	* 429-180N	451.71	1	21.75	3.75	FAB
20	A32	* 429-200N	788.00	1	24.13	4.13	FAB
24	A32	* 429-240N	1,094.37	1	28.00	4.00	FAB

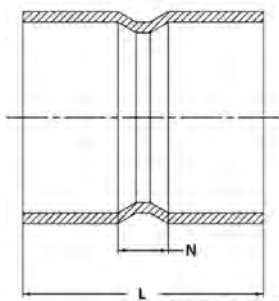
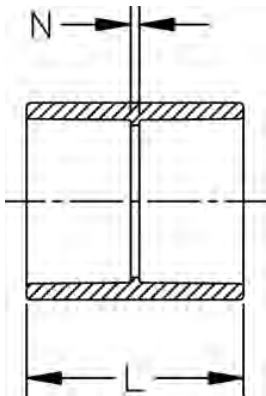
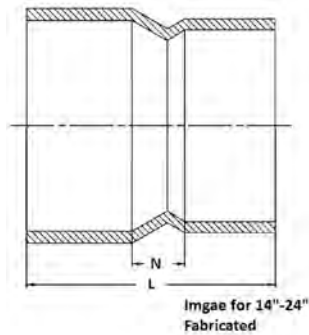
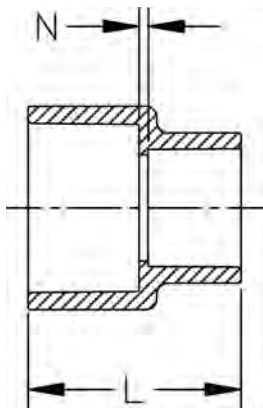


Image for 14"-24"
Fabricated



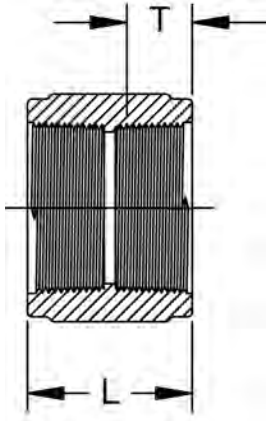
Reducing Coupling (S x S)

Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	N (inch)	Design
¾ x ½	601	429-101	1.24	50	1.63	0.13	
1 x ¾	601	429-131	2.12	50	2.13	0.25	
1 ¼ x 1	601	429-168	3.57	25	2.56	0.31	
1 ½ x 1 ½	601	429-212	3.79	25	2.75	0.25	
2 x 1 ½	601	429-251	6.01	10	3.13	0.44	
3 x 2	601	429-338	32.29	5	4.06	0.63	
4 x 3	601	429-422	40.36	4	4.63	0.63	
6 x 4	601	429-532	53.25	4	6.63	1.19	
8 x 4	601	429-582	123.51	4	8.94	2.38	
8 x 6	601	429-585	136.39	4	9.06	1.06	
10 x 6	B09	429-626	654.18	1	10.81	2.69	
10 x 8	B09	429-628	654.18	1	10.75	1.69	
12 x 8	B09	429-668	744.88	1	12.88	2.69	
12 x 10	B09	429-670	744.88	1	13.06	1.94	
14 x 4	A32	429-696N	695.81	1	10.50	4.75	FAB
14 x 6	A32	429-698N	632.04	1	11.50	4.50	FAB
14 x 8	A32	429-700N	626.34	1	13.25	5.50	FAB
14 x 10	A32	429-702N	495.63	1	17.00	5.00	FAB
14 x 12	A32	429-704N	373.28	1	17.00	4.00	FAB
16 x 4	A32	*429-730N	814.39	1	10.75	4.50	FAB
16 x 6	A32	*429-732N	806.37	1	11.75	4.50	FAB
16 x 8	A32	*429-734N	619.38	1	12.25	6.00	FAB
16 x 10	A32	*429-736N	574.37	1	20.00	7.00	FAB
16 x 12	A32	*429-738N	469.83	1	18.38	4.38	FAB
16 x 14	A32	*429-740N	448.00	1	18.50	3.50	FAB
18 x 6	A32	*429-786N	1,182.69	1	12.75	5.00	FAB
18 x 8	A32	*429-788N	1,108.22	1	14.00	6.00	FAB
18 x 10	A32	*429-790N	991.07	1	15.75	6.00	FAB
18 x 12	A32	*429-792N	788.42	1	22.38	7.38	FAB
18 x 14	A32	*429-794N	731.75	1	22.25	6.25	FAB
18 x 16	A32	*429-796N	662.46	1	22.38	5.38	FAB
20 x 8	A32	*429-818N	1,556.69	1	14.00	5.75	FAB
20 x 10	A32	*429-820N	1,496.85	1	34.50	19.25	FAB
20 x 12	A32	*429-822N	1,439.59	1	34.75	17.00	FAB
20 x 14	A32	*429-824N	1,349.31	1	33.00	15.75	FAB
20 x 16	A32	*429-826N	1,236.59	1	23.75	5.75	FAB
20 x 18	A32	*429-828N	1,124.40	1	23.50	4.50	FAB
24 x 6	A32	*429-906N	2,821.86	1	14.50	5.25	FAB
24 x 8	A32	*429-908N	2,596.33	1	16.00	6.00	FAB
24 x 10	A32	*429-910N	2,368.21	1	18.00	7.00	FAB
24 x 12	A32	*429-912N	2,330.89	1	40.50	21.75	FAB
24 x 14	A32	*429-914N	2,241.12	1	40.50	21.50	FAB
24 x 16	A32	*429-916N	2,155.34	1	40.50	20.25	FAB
24 x 18	A32	*429-918N	1,908.56	1	29.75	8.75	FAB
24 x 20	A32	*429-920N	1,716.81	1	28.50	6.50	FAB



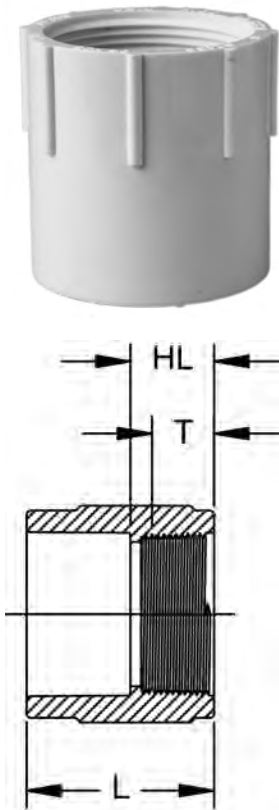
Coupling (FPT x FPT)

Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	T (inch)
½	601	^ 430-005	0.96	100	1.56	0.69
¾	601	^ 430-007	1.75	50	1.81	0.97
1	601	^ 430-010	2.32	50	1.56	1.00
2	601	^ 430-020	18.56	25	1.75	0.94



Female Adapter (S x FPT)

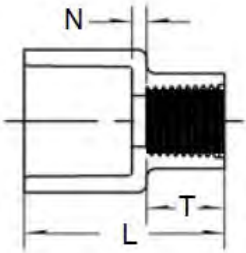
Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	N (inch)
½	601	435-005	0.85	100	1.75	0.31
¾	601	435-007	1.07	50	1.75	0.31
1	601	435-010	1.24	50	2.19	0.13
1 ¼	601	435-012	1.94	25	2.25	0.06
1 ½	601	435-015	2.22	25	2.25	0.06
2	601	435-020	2.96	25	2.44	0.06
2 ½	601	435-025	7.51	10	3.75	0.19
3	601	435-030	10.06	10	3.75	0.19
4	601	435-040	16.67	5	4.00	0.19
6	601	435-060	61.33	4	5.75	0.25
8	601	435-080	115.64	4	6.94	0.25





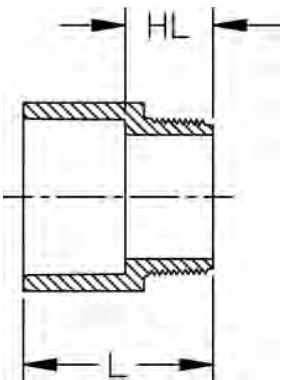
Reducing Female Adapter (S x FPT)

Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	N (inch)	T (inch)
¾ x ½	601	435-101	1.52	50	1.56	0.13	0.69
¾ x 1	601	435-102	2.01	50	1.75	0.06	1.00
1 x ¾	601	435-131	2.01	50	1.88	0.00	0.88
1 x 1 ½	601	435-211	4.04	25	2.19	0.19	1.00



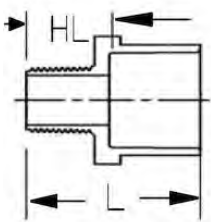
Male Adapter (MPT x S)

Size (inch)	P/L	Part No.	USD	Pack Qty	HL (inch)	L (inch)
½	601	436-005	0.68	100	0.69	1.56
¾	601	436-007	0.76	50	0.25	1.56
1	601	436-010	1.35	50	1.00	2.00
1 ¼	601	436-012	1.64	25	1.25	2.50
1 ½	601	436-015	2.22	25	1.19	2.50
2	601	436-020	2.91	25	1.31	2.69
2 ½	601	436-025	8.55	10	1.88	3.88
3	601	436-030	12.48	10	1.94	3.94
4	601	436-040	15.92	5	2.06	4.06
6	601	436-060	41.51	4	2.38	5.88
8	601	436-080	188.63	4	2.56	7.13
12	A32	* 436-120N	343.42	1	5.00	10.50

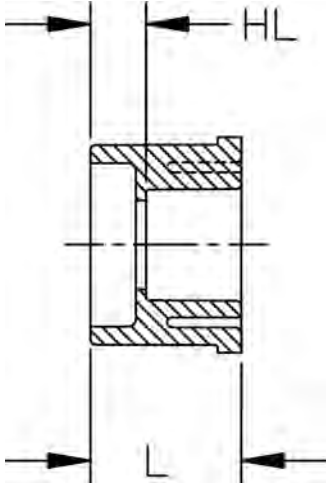


Reducing Male Adapter (MPT x S)

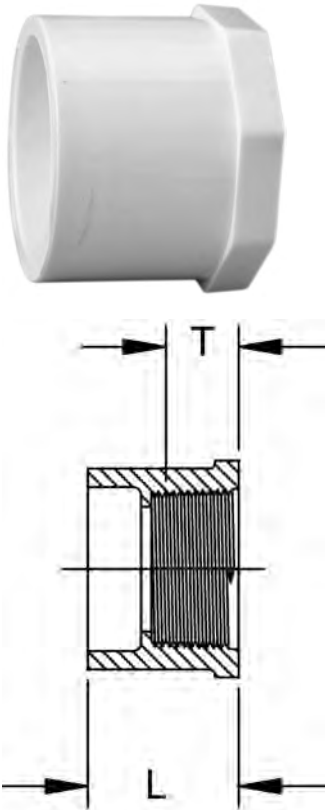
Size (inch)	P/L	Part No.	USD	Pack Qty	HL (inch)	L (inch)
½ x ¾	601	436-074	1.35	50	0.88	1.75
¾ x ½	601	436-101	1.24	50	0.94	1.69
¾ x 1	601	436-102	1.94	50	0.81	1.81
1 x ¾	601	436-131	4.13	50	1.00	2.31
1 x 1 ¼	601	436-132	4.49	25	1.19	2.88
1 ¼ x 1	601	436-168	5.07	25	1.00	2.00
1 ¼ x 1 ½	601	436-169	5.07	25	0.94	2.31
1 ½ x 1 ¼	601	436-212	6.13	25	1.19	2.50
1 ½ x 2	601	436-213	6.13	10	1.25	2.63
2 x 1 ½	601	436-251	6.99	10	1.25	2.56



Reducer Bushing (SPG x S)

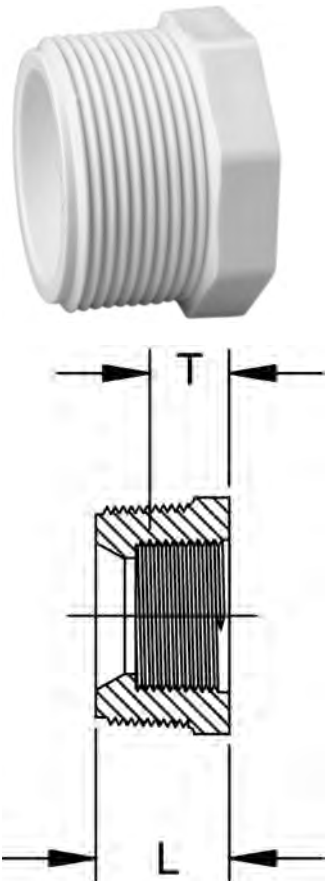


Size (inch)	P/L	Part No.	USD	Pack Qty	HL (inch)	L (inch)
¾ x ½	601	437-101	0.78	100	0.25	1.06
1 x ½	601	437-130	1.44	100	0.50	1.25
1 x ¾	601	437-131	1.44	100	0.44	1.25
1 ¼ x ½	601	437-166	1.94	25	0.81	1.56
1 ¼ x ¾	601	437-167	1.94	25	0.75	1.50
1 ¼ x 1	601	437-168	1.94	25	0.44	1.50
1 ½ x ½	601	437-209	2.04	25	0.88	1.63
1 ½ x ¾	601	437-210	2.04	25	0.81	1.63
1 ½ x 1	601	437-211	2.04	25	0.69	1.69
1 ½ x 1 ¼	601	437-212	2.04	25	0.38	1.56
2 x ½	601	437-247	3.37	10	0.94	1.69
2 x ¾	601	437-248	3.37	10	0.88	1.69
2 x 1	601	437-249	3.37	10	0.56	1.63
2 x 1 ¼	601	437-250	3.37	10	0.44	1.69
2 x 1 ½	601	437-251	3.37	25	0.38	1.69
2 ½ x 1	601	437-289	5.41	10	1.31	2.31
2 ½ x 1 ¼	601	437-290	5.41	10	1.00	2.25
2 ½ x 1 ½	601	437-291	5.41	10	1.00	2.31
2 ½ x 2	601	437-292	5.41	10	0.88	2.25
3 x 1	601	437-335	7.97	10	1.44	2.38
3 x 1 ¼	601	437-336	7.97	10	1.25	2.44
3 x 1 ½	601	437-337	7.97	10	1.13	2.38
3 x 2	601	437-338	7.97	10	1.00	2.38
3 x 2 ½	601	437-339	7.97	10	0.38	2.38
4 x 2	601	437-420	17.81	5	1.00	2.38
4 x 2 ½	601	437-421	17.81	5	0.56	2.44
4 x 3	601	437-422	17.81	5	0.38	2.38
6 x 3	601	437-530	44.08	5	2.06	4.06
6 x 4	601	437-532	44.08	5	2.00	4.00
8 x 4	601	437-582	153.80	5	3.25	5.25
8 x 6	601	437-585	153.80	5	1.75	5.25
10 x 4	B09	437-623	461.47	1	4.38	6.38
10 x 6	B09	437-626	418.59	1	2.44	5.44
10 x 8	B09	437-628	418.59	1	1.38	5.44
12 x 3	B09	437-661	623.32	1	5.38	7.38
12 x 4	B09	437-664	623.32	1	5.63	7.63
12 x 6	B09	437-666	623.32	1	4.13	7.69
12 x 8	B09	437-668	465.52	1	2.38	6.44
12 x 10	B09	437-670	465.52	1	1.44	6.50



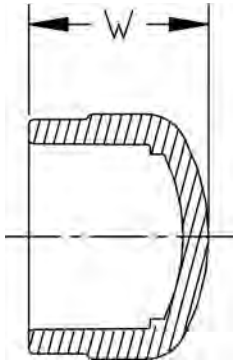
Reducer Bushing (SPG x FPT)

Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	T (inch)
½ x ¼	601	438-072	1.64	100	1.19	0.69
½ x ⅜	601	438-073	1.64	100	1.25	0.63
¾ x ¼	601	438-098	1.64	50	1.13	0.63
¾ x ½	601	438-101	1.24	100	1.06	0.81
1 x ½	601	438-130	2.01	100	1.25	0.75
1 x ¾	601	438-131	2.01	100	1.25	0.69
1 ¼ x ½	601	438-166	3.09	25	1.56	1.06
1 ¼ x ¾	601	438-167	3.09	25	1.56	0.75
1 ¼ x 1	601	438-168	3.09	25	1.56	1.00
1 ½ x ½	601	438-209	3.57	25	1.56	0.69
1 ½ x ¾	601	438-210	3.57	25	1.56	0.69
1 ½ x 1	601	438-211	3.57	25	1.56	0.88
1 ½ x 1 ¼	601	438-212	3.57	25	1.63	1.38
2 x ½	601	438-247	4.78	10	1.69	0.75
2 x ¾	601	438-248	4.78	10	1.69	0.69
2 x 1	601	438-249	4.78	10	1.75	1.13
2 x 1 ¼	601	438-250	4.78	10	1.69	1.38
2 x 1 ½	601	438-251	4.78	10	1.69	0.94
2 ½ x 1 ½	601	438-291	6.92	10	2.31	1.31
2 ½ x 2	601	438-292	6.92	10	2.31	1.50
3 x 1 ½	601	438-337	7.97	10	2.38	0.88
3 x 2	601	438-338	7.97	10	2.38	1.00
3 x 2 ½	601	438-339	7.97	10	2.38	1.50
4 x 2	601	438-420	17.78	5	2.44	1.00
4 x 2 ½	601	438-421	17.78	5	2.44	1.31
4 x 3	601	438-422	17.78	5	2.38	1.38
6 x 4	601	438-532	65.08	5	3.88	1.69



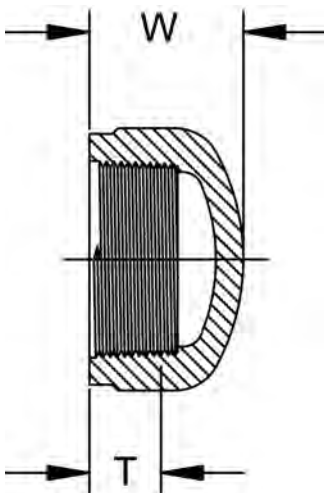
Reducer Bushing (MPT x FPT)

Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	T (inch)
½ x ¼	601	^ 439-072	3.57	50	1.13	0.63
½ x ⅜	601	^ 439-073	3.57	50	1.13	0.69
¾ x ¼	601	^ 439-098	2.22	50	1.13	0.69
¾ x ½	601	^ 439-101	2.22	50	1.00	0.75
1 x ½	601	^ 439-130	3.09	50	1.06	0.75
1 x ¾	601	^ 439-131	3.09	50	1.13	0.75
1 ¼ x ½	601	^ 439-166	4.60	25	1.31	0.75
1 ¼ x ¾	601	^ 439-167	4.60	25	1.31	0.50
1 ¼ x 1	601	^ 439-168	4.60	25	1.31	1.00
1 ½ x ½	601	^ 439-209	5.56	25	1.38	0.75
1 ½ x ¾	601	^ 439-210	5.56	25	1.44	0.81
1 ½ x 1	601	^ 439-211	5.56	25	1.44	1.13
1 ½ x 1 ¼	601	^ 439-212	5.56	25	1.44	1.00
2 x 1	601	^ 439-249	5.95	10	1.44	1.00
2 x 1 ¼	601	^ 439-250	5.95	10	1.44	1.00
2 x 1 ½	601	^ 439-251	5.95	10	1.50	1.00
2 ½ x 2	601	^ 439-292	20.79	10	1.81	1.06
3 x 2	601	^ 439-338	24.58	5	2.06	1.06



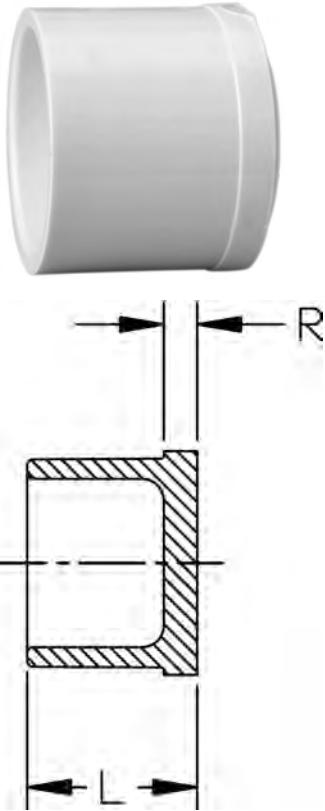
Cap (S)

Size (inch)	P/L	Part No.	USD	Pack Qty	W (inch)	Design
½	601	447-005	0.68	100	1.19	
¾	601	447-007	0.78	100	1.31	
1	601	447-010	1.24	50	1.75	
1 ¼	601	447-012	1.75	25	1.75	
1 ½	601	447-015	1.94	25	2.00	
2	601	447-020	2.32	25	2.19	
2 ½	601	447-025	7.37	10	3.06	
3	601	447-030	8.06	10	3.19	
4	601	447-040	18.34	5	3.50	
6	601	447-060	43.95	5	5.38	
8	601	447-080	110.38	4	6.69	
10	B09	447-100	197.29	1	8.50	
12	B09	447-120	256.14	1	9.63	
14	A32	* 447-140N	425.05	1	5.00	FAB
16	A32	* 447-160N	507.33	1	5.25	FAB
18	A32	* 447-180N	893.96	1	6.25	FAB
20	A32	* 447-200N	1,357.46	1	6.75	FAB
24	A32	* 447-240N	2,160.57	1	8.00	FAB



Cap (FPT)

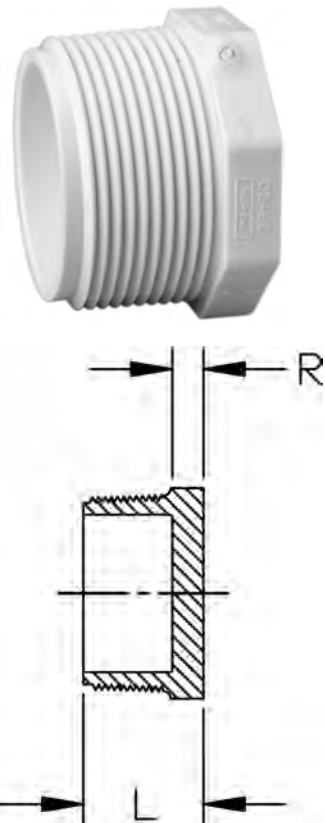
Size (inch)	P/L	Part No.	USD	Pack Qty	W (inch)	T (inch)
½	601	^ 448-005	1.44	100	1.06	0.75
¾	601	^ 448-007	1.64	100	1.13	0.81
1	601	^ 448-010	2.51	50	1.25	1.00
1 ¼	601	^ 448-012	2.96	25	1.50	1.31
1 ½	601	^ 448-015	3.09	25	1.56	1.06
2	601	^ 448-020	5.46	10	1.75	1.44
2 ½	601	^ 448-025	8.06	10	2.56	2.13
3	601	^ 448-030	10.55	10	3.13	2.00
4	601	^ 448-040	18.51	5	3.25	2.19



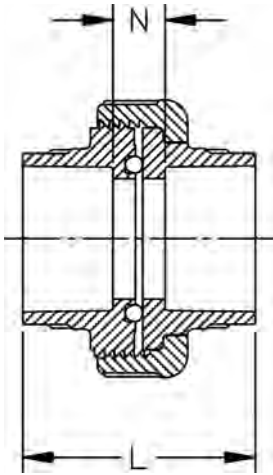
Plug (SPG)

Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	R (inch)
½	601	449-005	1.64	50	1.00	0.25
¾	601	449-007	1.94	50	1.06	0.25
1	601	449-010	2.32	50	1.25	0.25
1 ¼	601	449-012	3.09	25	1.56	0.31
1 ½	601	449-015	3.94	25	1.63	0.31
2	601	449-020	4.87	10	1.69	0.31
2 ½	601	449-025	8.33	10	2.38	0.38
3	601	449-030	11.00	10	2.38	0.38
4	601	449-040	24.93	5	2.38	0.38

Plug (MPT)



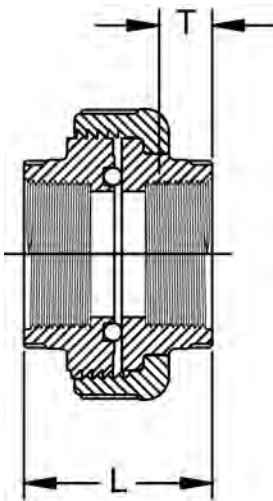
Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	R (inch)
½	601	450-005	2.04	50	1.00	0.25
¾	601	450-007	2.18	50	1.06	0.31
1	601	450-010	3.57	50	1.13	0.31
1 ¼	601	450-012	3.75	25	1.25	0.44
1 ½	601	450-015	4.02	25	1.38	0.31
2	601	450-020	5.19	10	1.38	0.31
2 ½	601	450-025	7.21	10	1.94	0.38
3	601	450-030	10.93	10	2.00	0.31
4	601	450-040	24.64	5	2.13	0.38
6	A32	* 450-060N	68.45	1	2.00	1.00
8	A32	* 450-080N	260.26	1	2.00	1.00
10	A32	* 450-100N	417.07	1	2.00	1.00
12	A32	* 450-120N	504.85	1	2.00	1.00



Union (S x S)

- 150 psi @ 73°F (10.3 bar @ 22.7°C)
- O-ring material Buna-N

Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	N (inch)
½	601	457-005	7.37	10	1.75	0.25
¾	601	457-007	8.39	10	1.88	0.25
1	601	457-010	8.64	10	2.38	0.25
1 ¼	601	457-012	27.83	5	2.81	0.38
1 ½	601	457-015	29.01	5	3.00	0.38
2	601	457-020	39.12	5	3.13	0.38



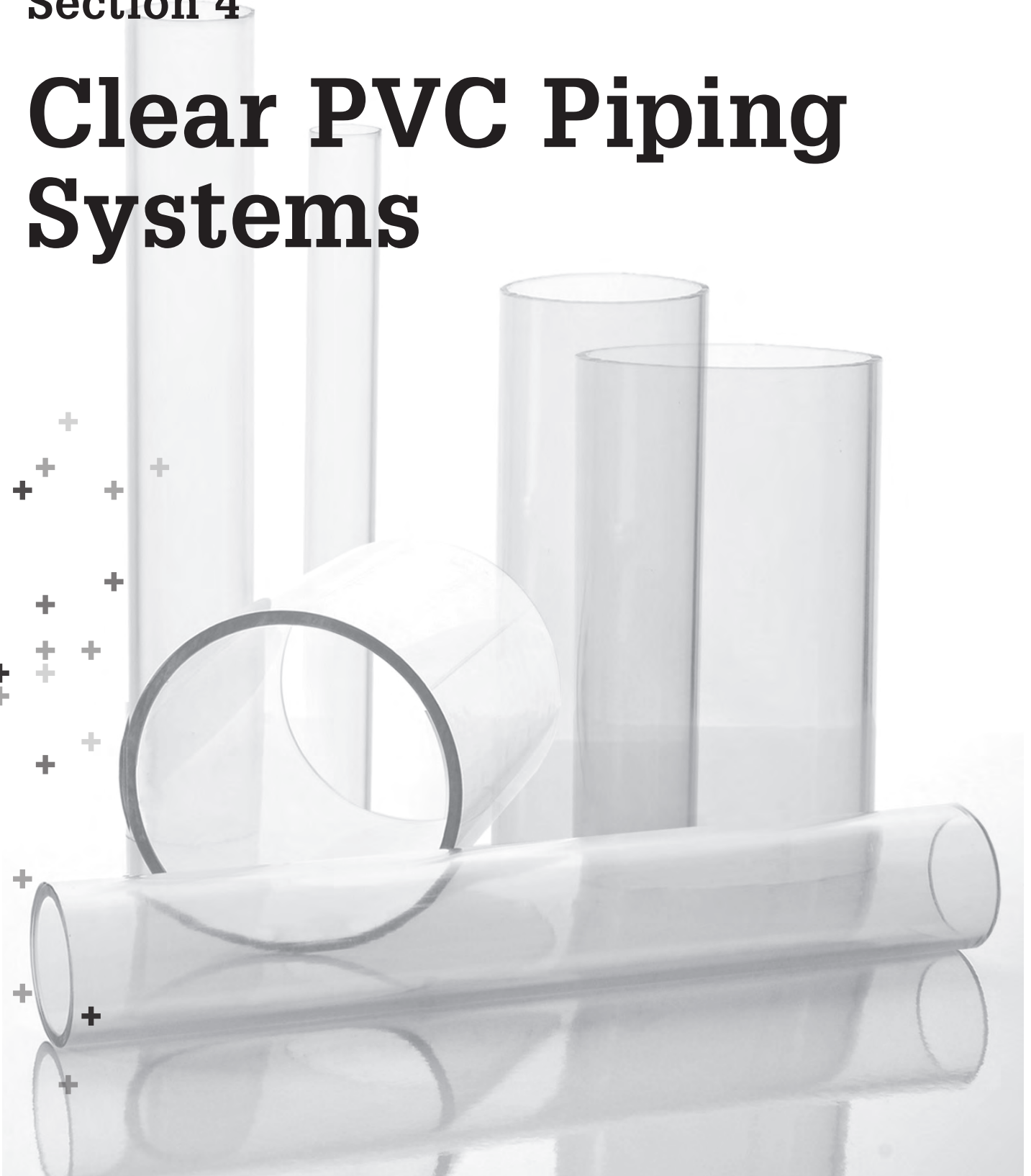
Union (FPT x FPT)

- 75 psi @ 73°F (5.2 bar @ 22.7°C)
- O-ring material Buna-N

Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	T (inch)
½	601	^ 458-005	8.27	10	1.75	0.75
¾	601	^ 458-007	13.82	10	1.88	0.81
1	601	^ 458-010	18.83	10	2.44	1.06
1 ¼	601	^ 458-012	32.37	5	2.81	1.13
1 ½	601	^ 458-015	33.06	5	3.00	1.06
2	601	^ 458-020	40.63	5	3.13	1.19

Section 4

Clear PVC Piping Systems



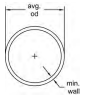
The technical information given in this publication implies no warranty of any kind and is subject to change without notice. Please consult our Terms and Conditions of Sale.

For complete technical information, please consult the GF Harvel Engineering and Installation Guide available online at www.gfpiping.com/resource.html [see "Technical Docs"] or by calling (800) 854-4090.

For more information about any of our product lines, please call (800) 854-4090.

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Specifications and Standards

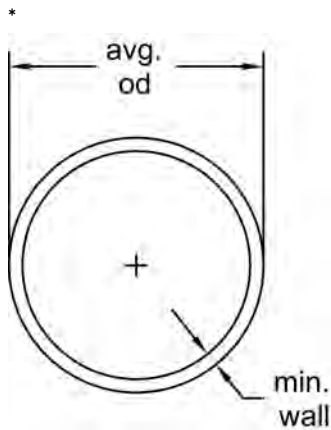
Specifications and Standards

NSF/ANSI Standard 61

FDA Title 21

- ASTM D 1784 : PVC Material, Clear Fittings, Cell Classification 12454
- : PVC Material, Clear Pipe, Cell Classification 16443
- ASTM D 1785 : PVC Schedule 40 & Schedule 80 Pipe Dimensions
- ASTM D 2672 : PVC Schedule 40 Tapered Sockets for Bell End Pipe
- ASTM D 2466 : PVC Schedule 40 Socket & Threaded Fittings
- ASTM D 2467 : PVC Schedule 80 Socket & Threaded Fittings
- ANSI B1.20.1 : PVC Schedule 40 NPT Threads

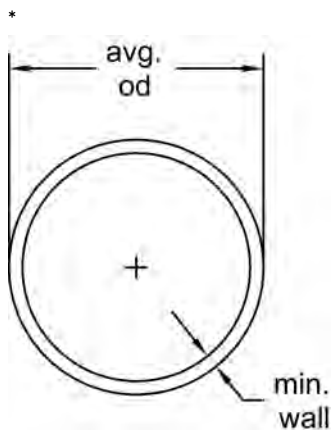
Harvel® Clear PVC Pressure Pipe



Schedule 40 Clear PVC - 10 ft lengths

- Max Water Pressure at 73°F (22.7°C) with solvent-cemented joints
- Belled-end pipe available upon request
- Must be purchased in full box qty
- 20ft Plain end length available upon request

Size (inch)	P/L	Part No.	USD	Box Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
¼	H05	*H0400025PL1000	1.07	100	0.540	0.088	0.081	390
⅜	H05	*H0400038PL1000	1.45	100	0.675	0.091	0.109	310
½	H05	*H0400050PL1000	2.16	350	0.840	0.109	0.161	300
¾	H05	*H0400075PL1000	2.92	250	1.050	0.113	0.214	240
1	H05	*H0400100PL1000	4.30	250	1.315	0.133	0.315	220
1 ¼	H05	*H0400125PL1000	5.84	200	1.660	0.140	0.426	180
1 ½	H05	*H0400150PL1000	6.99	160	1.900	0.145	0.509	170
2	H05	*H0400200PL1000	9.41	120	2.375	0.154	0.682	140
2 ½	H05	*H0400250PL1000	14.88	80	2.875	0.203	1.076	150
3	H05	*H0400300PL1000	19.42	60	3.500	0.216	1.409	130
3 ½	H05	*H0400350PL1000	24.67	40	4.000	0.226	1.697	120
4	H05	*H0400400PL1000	29.25	40	4.500	0.237	2.006	110
5	H05	*H0400500PL1000	40.85	10	5.563	0.258	2.726	95
6	H05	*H0400600PL1000	53.46	10	6.625	0.280	3.535	90
6 ½	H05	*H0400613PL1000	33.91	10	6.625	0.130	1.770	45
8	H05	*H0400800PL1000	80.18	10	8.625	0.322	5.305	80
10	H05	*H0401000PL1000	129.05	10	10.750	0.365	7.532	70
12	H05	*H0401200PL1000	170.47	10	12.750	0.406	9.949	70



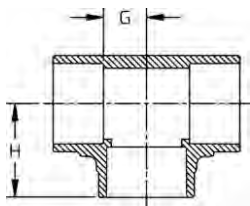
Schedule 80 Clear PVC - 10 ft lengths

- Max Water Pressure at 73°F (22.7°C) with solvent-cemented joints
- Belled-end pipe available upon request
- Must be purchased in full box qty
- 20ft Plain end length available upon request

Size (inch)	P/L	Part No.	USD	Box Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
¼	H56	*H0800025PL1000	1.36	100	0.540	0.119	0.100	570
⅜	H56	*H0800038PL1000	1.88	100	0.675	0.126	0.138	460
½	H56	*H0800050PL1000	2.76	50	0.840	0.147	0.202	420
¾	H56	*H0800075PL1000	3.72	50	1.050	0.154	0.273	340
1	H56	*H0800100PL1000	5.48	20	1.315	0.179	0.402	320
1 ¼	H56	*H0800125PL1000	7.55	10	1.660	0.191	0.554	260
1 ½	H56	*H0800150PL1000	9.18	10	1.900	0.200	0.673	240
2	H56	*H0800200PL1000	12.70	10	2.375	0.218	0.932	200
2 ½	H56	*H0800250PL1000	19.36	10	2.875	0.276	1.419	210
3	H56	*H0800300PL1000	25.95	10	3.500	0.300	1.903	190
4	H56	*H0800400PL1000	37.93	10	4.500	0.337	2.782	160
6	H56	*H0800600PL1000	72.46	10	6.625	0.432	5.313	140

Clear PVC Fittings

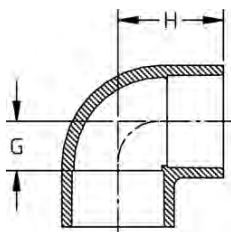
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Tee (S x S x S)

Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	G (inch)
¼	H01	*H401002LS	12.89	10	0.97	0.34
⅜	H01	*H401003LS	8.31	10	1.13	0.38
½	H01	*H401005LS	9.74	25	1.25	0.50
¾	H01	*H401007LS	11.09	25	1.56	0.56
1	H01	*H401010LS	20.76	25	1.75	0.69
1 ¼	H01	*H401012LS	32.62	10	2.25	0.88
1 ½	H01	*H401015LS	39.56	10	2.34	1.09
2	H01	*H401020LS	57.49	10	2.75	1.38
2 ½	H01	*H401025LS	189.49	5	3.41	1.66
3	H01	*H401030LS	248.55	5	3.84	1.94
4	H01	*H401040LS	449.93	5	4.44	2.41
6	H01	*H401060LS	809.91	2	6.66	3.63
8	H01	*H401080LS	1,457.81	1	8.53	4.50

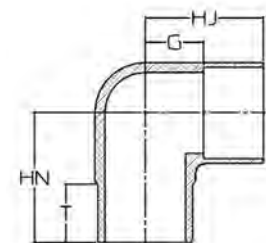
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90° Ell (S x S)

Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	G (inch)
¼	H01	*H406002LS	10.49	10	1.09	0.41
⅜	H01	*H406003LS	10.49	10	1.13	0.38
½	H01	*H406005LS	7.93	25	1.25	0.50
¾	H01	*H406007LS	8.67	25	1.50	0.56
1	H01	*H406010LS	15.74	25	1.81	0.69
1 ¼	H01	*H406012LS	27.72	10	2.16	0.97
1 ½	H01	*H406015LS	29.44	10	2.34	1.06
2	H01	*H406020LS	46.65	10	2.69	1.31
2 ½	H01	*H406025LS	141.56	5	3.25	1.50
3	H01	*H406030LS	169.36	5	3.72	1.84
4	H01	*H406040LS	303.24	5	4.44	2.41
6	H01	*H406060LS	545.86	2	6.56	3.53
8	H01	*H406080LS	982.55	1	8.47	4.44

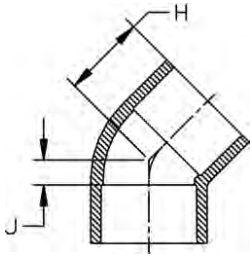
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90° Street Ell (SPG x S)

Size (inch)	P/L	Part No.	USD	Pack Qty	HJ (inch)	HN (inch)	G (inch)	T (inch)
½	H01	*H409005LS	7.93	25	1.16	1.44	0.41	0.75
¾	H01	*H409007LS	8.67	25	1.53	1.84	0.53	1.00
1	H01	*H409010LS	15.74	25	1.81	2.09	0.69	1.13
1 ¼	H01	*H409012LS	27.72	10	2.06	2.47	0.81	1.28
1 ½	H01	*H409015LS	29.44	10	2.38	2.63	1.06	1.28
2	H01	*H409020LS	46.65	10	2.63	3.00	1.25	1.41
2 ½	H01	*H409025LS	141.56	5	3.38	3.72	1.53	2.25

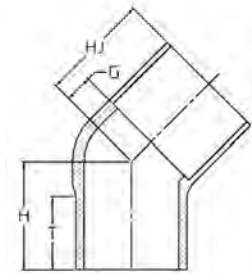
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45° Ell (S x S)

Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	J (inch)
¼	H01	*H417002LS	16.85	10	1.09	0.41
⅜	H01	*H417003LS	16.85	10	1.13	0.38
½	H01	*H417005LS	12.79	25	1.00	0.25
¾	H01	*H417007LS	19.75	25	1.38	0.44
1	H01	*H417010LS	23.73	25	1.50	0.47
1 ¼	H01	*H417012LS	33.55	10	1.78	0.53
1 ½	H01	*H417015LS	41.84	10	1.91	0.59
2	H01	*H417020LS	54.55	10	2.06	0.69
2 ½	H01	*H417025LS	141.75	5	2.44	0.69
3	H01	*H417030LS	220.05	5	2.84	0.84
4	H01	*H417040LS	395.25	5	3.09	1.09
6	H01	*H417060LS	711.44	2	4.75	1.72
8	H01	*H417080LS	1,280.59	1	6.00	2.00

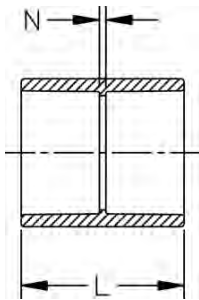
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45° Street Ell (SPG x S)

Size (inch)	P/L	Part No.	USD	Pack Qty	HJ (inch)	H (inch)	G (inch)	T (inch)
½	H01	*H427005LS	12.79	25	1.28	1.28	0.41	0.94
¾	H01	*H427007LS	19.75	25	1.53	1.50	0.53	1.06
1	H01	*H427010LS	23.73	25	1.66	1.59	0.53	1.19
1 ¼	H01	*H427012LS	33.55	10	1.91	1.78	0.66	1.28
1 ½	H01	*H427015LS	41.84	10	2.09	2.03	0.72	1.44
2	H01	*H427020LS	54.55	10	2.00	2.00	0.47	1.38
2 ½	H01	*H427025LS	141.75	5	2.63	2.63	0.88	1.88
3	H01	*H427030LS	220.05	5	3.03	2.97	1.22	1.97
4	H01	*H427040LS	395.25	5	3.81	3.66	1.56	2.38

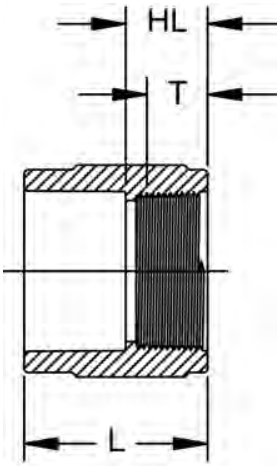
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Coupling (S x S)

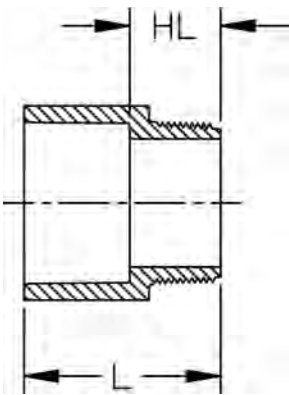
Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	N (inch)
¼	H01	*H429002LS	7.04	10	1.37	0.06
⅜	H01	*H429003LS	7.04	10	2.63	0.13
½	H01	*H429005LS	5.24	25	1.59	0.13
¾	H01	*H429007LS	7.06	25	2.09	0.13
1	H01	*H429010LS	11.88	25	2.13	0.13
1 ¼	H01	*H429012LS	16.71	10	2.34	0.13
2	H01	*H429020LS	27.16	10	2.88	0.19
2 ½	H01	*H429025LS	61.40	5	3.75	0.19
3	H01	*H429030LS	93.37	5	3.97	0.19
4	H01	*H429040LS	156.95	5	4.25	0.25
6	H01	*H429060LS	250.33	2	6.31	0.25
8	H01	*H429080LS	450.57	2	8.34	0.25

Female Adapter (S x FPT)



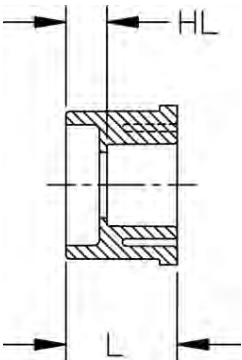
Size (inch)	P/L	Part No.	USD	Pack Qty	HL (inch)	L (inch)	T (inch)
¼	H01	*H435002SRLS	14.79	10	0.75	1.31	0.40
¾	H01	*H435003SRLS	14.79	10	0.75	1.44	0.41
½	H01	*H435005SRLS	8.76	25	0.91	1.75	0.53
¾	H01	*H435007SRLS	10.97	25	0.95	1.88	0.55
1	H01	*H435010SRLS	12.66	25	1.11	2.13	0.68
1 ¼	H01	*H435012SRLS	19.46	10	1.16	2.31	0.71
1 ½	H01	*H435015SRLS	22.83	10	1.19	2.44	0.72
2	H01	*H435020SRLS	30.75	10	1.23	2.69	0.76
2 ½	H01	*H435025SRLS	63.92	5	1.75	3.25	1.14
3	H01	*H435030SRLS	104.33	5	1.91	3.50	1.20
4	H01	*H435040SRLS	172.56	5	2.02	3.94	1.30

Male Adapter (S x MPT)

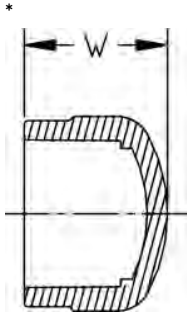


Size (inch)	P/L	Part No.	USD	Pack Qty	HL (inch)	L (inch)
½	H01	*H436005LS	7.06	25	0.16	1.53
¾	H01	*H436007LS	7.93	25	0.16	1.72
1	H01	*H436010LS	13.92	25	0.22	2.06
1 ¼	H01	*H436012LS	16.80	10	0.19	2.44
1 ½	H01	*H436015LS	22.81	10	0.19	2.53
2	H01	*H436020LS	29.75	10	0.22	2.66
2 ½	H01	*H436025LS	88.23	5	0.28	3.81
3	H01	*H436030LS	128.89	5	0.28	3.91
4	H01	*H436040LS	164.39	5	0.28	4.03

Flush Style Reducer Bushing (SPG x S)

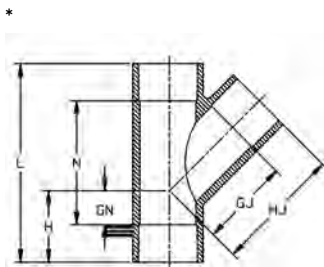


Size (inch)	P/L	Part No.	USD	Pack Qty	HL (inch)	L (inch)
¾ x ½	H01	*H437101LS	8.16	25	0.28	1.06
1 x ¾	H01	*H437131LS	15.00	25	0.31	1.25
1 ¼ x 1	H01	*H437168LS	19.75	25	0.44	1.50
1 ½ x 1	H01	*H437211LS	20.86	25	0.50	1.53
1 ½ x 1 ¼	H01	*H437212LS	20.86	25	0.28	1.53
2 x 1 ½	H01	*H437251LS	34.55	10	0.25	1.56
2 ½ x 2	H01	*H437292LS	55.56	5	0.69	2.06
3 x 2	H01	*H437338LS	82.44	5	0.56	2.22
3 x 2 ½	H01	*H437339LS	82.44	5	0.44	2.22
4 x 3	H01	*H437422LS	184.20	5	0.47	2.34
6 x 4	H01	*H437532LS	370.68	2	1.50	3.56
8 x 6	H01	*H437585LS	596.82	2	1.38	4.41



Cap (S)

Size (inch)	P/L	Part No.	USD	Pack Qty	W (inch)
¼	H01	*H447002LS	9.46	10	3.63
⅜	H01	*H447003LS	9.46	10	1.00
½	H01	*H447005LS	7.06	25	1.03
¾	H01	*H447007LS	8.16	25	1.31
1	H01	*H447010LS	12.92	25	1.56
1 ¼	H01	*H447012LS	17.98	10	1.75
1 ½	H01	*H447015LS	19.75	10	1.91
2	H01	*H447020LS	23.81	10	2.03
2 ½	H01	*H447025LS	76.17	5	2.56
3	H01	*H447030LS	74.99	5	2.91
4	H01	*H447040LS	170.56	5	3.13
6	H01	*H447060LS	307.00	2	5.00
8	H01	*H447080LS	396.23	2	6.38

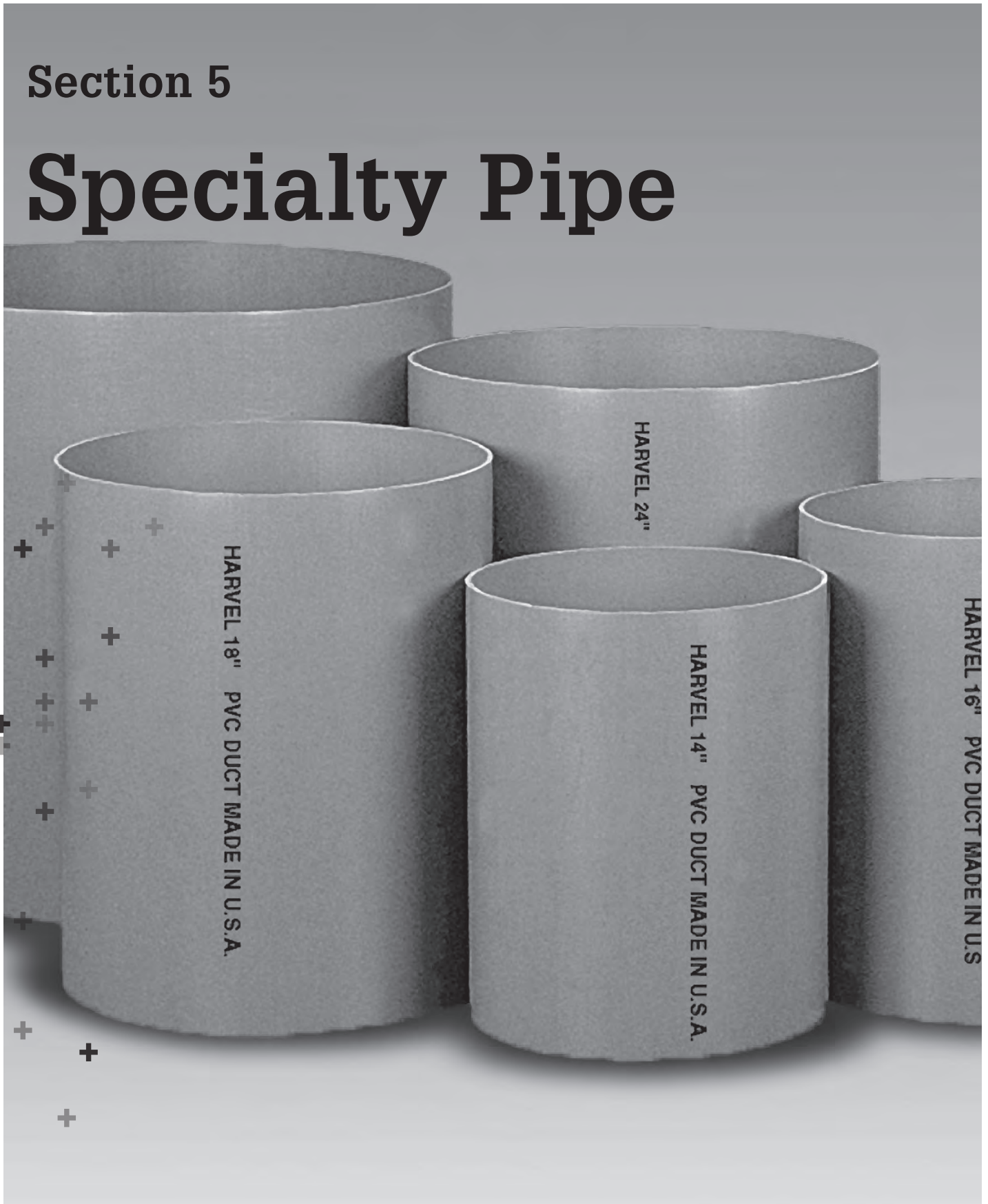


45° Wye (S x S x S)

Size (inch)	P/L	Part No.	USD	Pack Qty	GJ (inch)	GN (inch)	H (inch)	HJ (inch)	L (inch)	N (inch)
1 ½	H01	*H475015LS	52.17	20	2.59	0.50	1.88	3.97	5.81	3.06
2	H01	*H475020LS	76.80	10	3.22	0.59	2.13	4.75	6.88	3.81
3	H01	*H475030LS	319.87	4	4.56	0.88	2.78	6.47	8.75	4.94
4	H01	*H475040LS	582.40	4	5.72	1.22	3.50	7.97	10.75	6.25
6	H01	*H475060LS	995.65	2	8.50	1.31	4.31	11.66	15.38	9.38
6 x 4	H01	*H475532LS	995.65	2	6.56	0.97	3.94	12.66	12.66	8.09

Section 5

Specialty Pipe



The technical information given in this publication implies no warranty of any kind and is subject to change without notice. Please consult our Terms and Conditions of Sale.

For complete technical information, please consult the GF Harvel Engineering and Installation Guide available online at www.gfpiping.com/resource.html [see "Technical Docs"] or by calling (800) 854-4090.

For more information about any of our product lines, please call (800) 854-4090.

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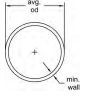
Harvel Specialized PVC Pipe Sizes

121



Corrosion Resistant Duct

126



EnviroKing® UV Resistant Pipe

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Specifications and Standards

Specifications and Standards

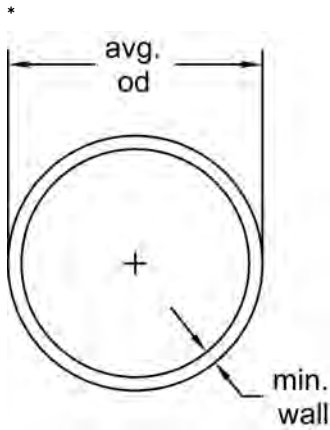
NSF/ANSI Standard 14

NSF/ANSI Standard 61

- ASTM D 1784 : Material PVC Type I, Grade I, White or Gray, Cell Classification 12454 (SDR Series Pipe & PVC Duct)
Material CPVC Type IV, Grade I, Tan, Cell Classification 24448 (CTS CPVC Plumbing Pipe)
Material CPVC Type IV, Grade I, Gray, Cell Classification 23447 (CPVC Duct)
- ASTM D 1785 : PVC Schedule 120 Pipe
- ASTM D 2241 : PVC SDR Series Pipe
- ASTM D 22846 : Copper Tube Size (CTS) Hot and Cold Water Plumbing Pipe
- CSA B137.6 : Copper Tube Size (CTS) Hot and Cold Water Plumbing Pipe; CTS Sizes 3/8"–2"
- ULC S102.2 : Copper Tube Size (CTS) Hot and Cold Water Plumbing Pipe; CTS Sizes 3/8"–2"
- ULC S102.2 : CPVC Corrosion Resistant Duct (6"–24")
FlameTech Containment Pipe (1/2"–2")

P1300127

Harvel Specialized PVC Pipe Sizes

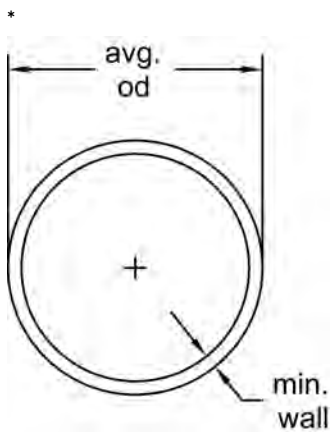


Schedule 120 PVC Pressure Pipe - Gray

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

Pipe Size (inch)	P/L	Part No.	USD
½	H15	* H1200050PG2000	3.31
¾	H15	* H1200075PG2000	4.34
1	H15	* H1200100PG2000	6.40
1 ¼	H15	* H1200125PG2000	8.91
1 ½	H15	* H1200150PG2000	10.76
2	H15	* H1200200PG2000	15.23
2 ½	H15	* H1200250PG2000	21.67
3	H15	* H1200300PG2000	30.96
4	H15	* H1200400PG2000	49.83
6	H15	* H1200600PG2000	94.41
8	H15	* H1200800PG2000	167.97

Pipe Size (inch)	Lift Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
½	5700	0.840	0.170	0.223	1010
¾	5260	1.050	0.170	0.295	770
1	4280	1.315	0.200	0.440	720
1 ¼	2360	1.660	0.215	0.614	600
1 ½	2060	1.900	0.225	0.744	540
2	1660	2.375	0.250	1.052	470
2 ½	1080	2.875	0.300	1.529	470
3	840	3.500	0.350	2.184	440
4	520	4.500	0.437	3.516	430
6	340	6.625	0.562	6.759	370
8	220	8.625	0.718	11.251	380

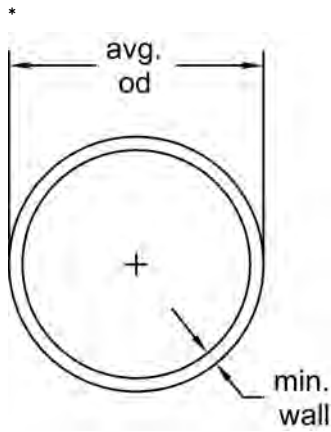


SDR 13.5 PVC Pressure Pipe - Gray

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

Pipe Size (inch)	P/L	Part No.	USD
½	H21	* H1350050PG2000	1.38

Pipe Size (inch)	Lift Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
½	5700	0.840	0.062	0.104	315

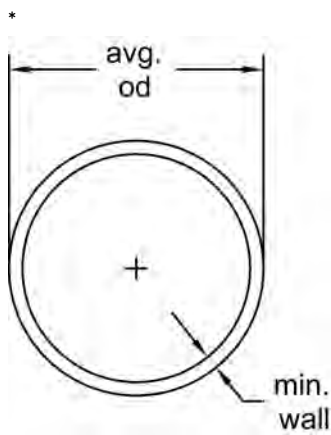


SDR 13.5 PVC Pressure Pipe - White

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

Pipe Size (inch)	P/L	Part No.	USD
½	H21	* H1350050PW2000	1.38

Pipe Size (inch)	Lift Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
½	5700	0.840	0.062	0.104	315

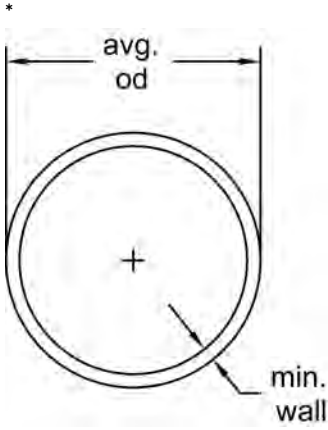


SDR 21 PVC Pressure Pipe - Gray

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

Pipe Size (inch)	P/L	Part No.	USD
¾	H21	* H0210075PG2000	1.70
1	H21	* H0210100PG2000	2.24
1 ¼	H21	* H0210125PG2000	3.47
1 ½	H21	* H0210150PG2000	4.21
2	H21	* H0210200PG2000	6.42
2 ½	H21	* H0210250PG2000	10.29
3	H21	* H0210300PG2000	13.68
3 ½	H21	* H0210350PG2000	26.37
4	H21	* H0210400PG2000	22.56
5	H21	* H0210500PG2000	39.03
6	H21	* H0210600PG2000	49.01
8	H21	* H0210800PG2000	82.59

Lift Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
5260	1.050	0.060	0.129	200
4280	1.315	0.063	0.170	200
2360	1.660	0.079	0.263	200
2060	1.900	0.090	0.339	200
1660	2.375	0.113	0.521	200
1080	2.875	0.137	0.754	200
840	3.500	0.167	1.106	200
580	4.000	0.190	1.443	200
520	4.500	0.214	1.825	200
400	5.563	0.265	2.792	200
340	6.625	0.316	3.964	200
220	8.625	0.410	6.679	200

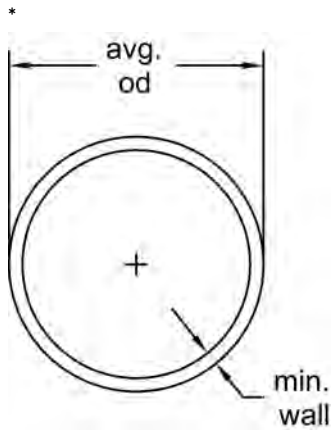


SDR 21 PVC Pressure Pipe - White

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

Pipe Size (inch)	P/L	Part No.	USD
3/4	H21	* H0210075PW2000	1.70
1	H21	* H0210100PW2000	2.24
1 1/4	H21	* H0210125PW2000	3.47
1 1/2	H21	* H0210150PW2000	4.21
2	H21	* H0210200PW2000	6.42
2 1/2	H21	* H0210250PW2000	10.29
3	H21	* H0210300PW2000	13.68
3 1/2	H21	* H0210350PW2000	26.37
4	H21	* H0210400PW2000	22.56
5	H21	* H0210500PW2000	39.03
6	H21	* H0210600PW2000	49.01
8	H21	* H0210800PW2000	82.59

Pipe Size (inch)	Lift Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
3/4	5260	1.050	0.060	0.129	200
1	4280	1.315	0.063	0.170	200
1 1/4	2360	1.660	0.079	0.263	200
1 1/2	2060	1.900	0.090	0.339	200
2	1660	2.375	0.113	0.521	200
2 1/2	1080	2.875	0.137	0.754	200
3	840	3.500	0.167	1.106	200
3 1/2	580	4.000	0.190	1.443	200
4	520	4.500	0.214	1.825	200
5	400	5.563	0.265	2.792	200
6	340	6.625	0.316	3.964	200
8	220	8.625	0.410	6.679	200

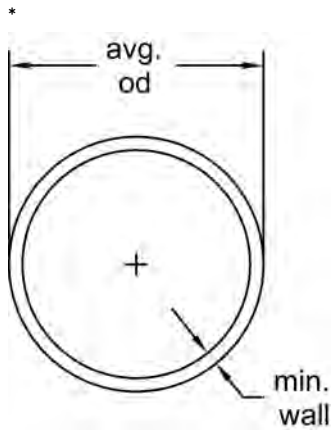


SDR 26 PVC Pressure Pipe - Gray

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

Pipe Size (inch)	P/L	Part No.	USD
1	H21	* H0260100PG2000	2.18
1 1/4	H21	* H0260125PG2000	2.93
1 1/2	H21	* H0260150PG2000	3.51
2	H21	* H0260200PG2000	5.34
2 1/2	H21	* H0260250PG2000	8.50
3	H21	* H0260300PG2000	11.31
3 1/2	H21	* H0260350PG2000	21.63
4	H21	* H0260400PG2000	18.48
5	H21	* H0260500PG2000	31.99
6	H21	* H0260600PG2000	39.92
8	H21	* H0260800PG2000	67.62
10	H21	* H0261000PG2000	105.00
12	H21	* H0261200PG2000	147.82
14	H21	* H0261400PG2000	193.93
16	H21	* H0261600PG2000	252.81
18	H21	* H0261800PG2000	333.50
20	H21	* H0262000PG2000	411.94
24	H21	* H0262400PG2000	594.34

Pipe Size (inch)	Lift Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
1	4280	1.315	0.060	0.164	160
1 1/4	2360	1.660	0.064	0.221	160
1 1/2	2060	1.900	0.073	0.284	160
2	1660	2.375	0.091	0.432	160
2 1/2	1080	2.875	0.110	0.622	160
3	840	3.500	0.135	0.915	160
3 1/2	700	4.000	0.154	1.183	160
4	520	4.500	0.173	1.494	160
5	400	5.563	0.214	2.288	160
6	340	6.625	0.255	3.228	160
8	220	8.625	0.332	5.468	160
10	80	10.750	0.413	8.492	160
12	60	12.750	0.490	11.956	160
14	60	14.000	0.538	14.430	160
16	60	16.000	0.615	18.810	160
18	40	18.000	0.692	23.860	160
20	40	20.000	0.769	29.470	160
24	40	24.000	0.923	42.520	160

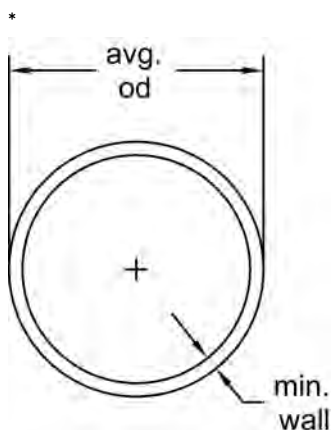


SDR 26 PVC Pressure Pipe - White

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

Pipe Size (inch)	P/L	Part No.	USD
1	H21	* H0260100PW2000	2.18
1 1/4	H21	* H0260125PW2000	2.93
1 1/2	H21	* H0260150PW2000	3.51
2	H21	* H0260200PW2000	5.34
2 1/2	H21	* H0260250PW2000	8.50
3	H21	* H0260300PW2000	11.31
3 1/2	H21	* H0260350PW2000	21.63
4	H21	* H0260400PW2000	18.48
5	H21	* H0260500PW2000	31.99
6	H21	* H0260600PW2000	39.92
8	H21	* H0260800PW2000	67.62
10	H21	* H0261200PW2000	147.82
12	H21	* H0261000PW2000	105.00
14	H21	* H0261400PW2000	193.93
16	H21	* H0261600PW2000	252.81
18	H21	* H0261800PW2000	333.50
20	H21	* H0262000PW2000	411.94
24	H21	* H0262400PW2000	594.34

Pipe Size (inch)	Lift Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
1	4280	1.315	0.060	0.164	160
1 1/4	2360	1.660	0.064	0.221	160
1 1/2	2060	1.900	0.073	0.284	160
2	1660	2.375	0.091	0.432	160
2 1/2	1080	2.875	0.110	0.622	160
3	840	3.500	0.135	0.915	160
3 1/2	700	4.000	0.154	1.183	160
4	520	4.500	0.173	1.494	160
5	400	5.563	0.214	2.288	160
6	340	6.625	0.255	3.228	160
8	220	8.625	0.332	5.468	160
10	80	10.750	0.413	8.492	160
12	60	12.750	0.490	11.956	160
14	60	14.000	0.538	14.430	160
16	60	16.000	0.615	18.810	160
18	40	18.000	0.692	23.860	160
20	40	20.000	0.769	29.470	160
24	40	24.000	0.923	42.520	160

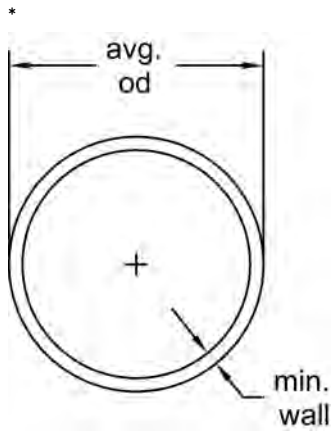


SDR 41 PVC Pressure Pipe - Gray

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

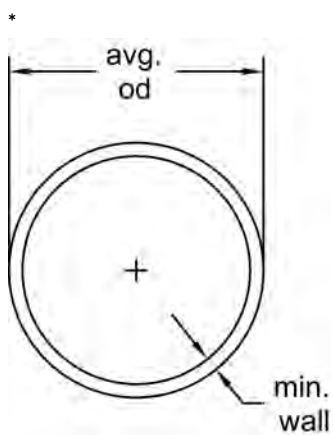
Pipe Size (inch)	P/L	Part No.	USD
18	H15	* H0411800PG2000	214.86
20	H15	* H0412000PG2000	264.48
24	H15	* H0412400PG2000	381.87

table continued on the next page



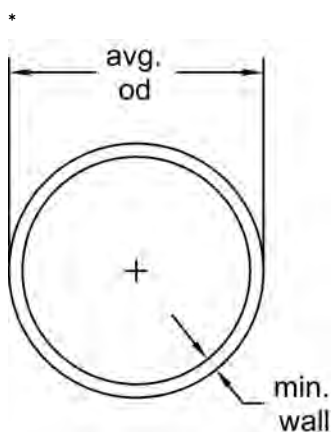
Lift Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
60	18.000	0.439	15.370	100
40	20.000	0.488	18.920	100
40	24.000	0.585	27.320	100

Corrosion Resistant Duct



PVC Corrosion Resistant Duct - Gray

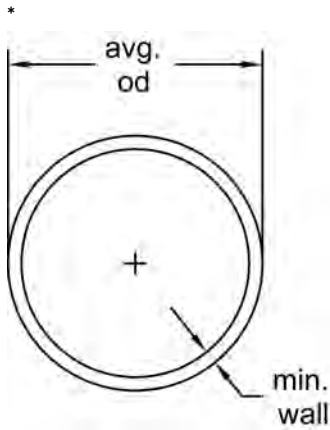
Size (inch) (inch)	P/L	Part No.	USD	Lift Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)
6 x 1/8	H30	* HDUC0600PG2000	8.83	340	6.625	0.105	1.530
6	H30	* HDUC0601PG2000	12.14	340	6.625	0.172	2.275
7	H30	* HDUC0700PG2000	16.23	340	7.737	0.172	2.534
8	H30	* HDUC0800PG2000	17.54	220	8.625	0.172	2.982
9	H30	* HDUC0900PG2000	20.75	80	9.375	0.172	3.239
10	H30	* HDUC1000PG2000	22.26	80	10.750	0.172	3.733
11	H30	* HDUC1100PG2000	24.15	60	11.375	0.172	3.944
12	H30	* HDUC1200PG2000	25.95	60	12.750	0.172	4.440
14	H30	* HDUC1400PG2000	32.48	60	14.000	0.172	4.884
16	H30	* HDUC1600PG2000	37.59	60	16.000	0.172	5.586
18	H30	* HDUC1800PG2000	51.38	40	18.000	0.172	6.750
20	H30	* HDUC2000PG2000	62.00	40	20.000	0.199	8.144
24	H30	* HDUC2400PG2000	84.97	40	24.000	0.230	11.163



CPVC Corrosion Resistant Duct - Gray

Size (inch)	P/L	Part No.	USD	Lift Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)
6	H41	* HDUC0600CG2000	25.39	340	6.625	0.172	2.555
8	H41	* HDUC0800CG2000	33.32	220	8.625	0.172	3.349
10	H41	* HDUC1000CG2000	41.77	80	10.750	0.172	4.192
12	H41	* HDUC1200CG2000	49.64	80	12.750	0.172	4.986
14	H41	* HDUC1400CG2000	101.20	60	14.000	0.172	5.485
16	H41	* HDUC1600CG2000	115.74	60	16.000	0.172	6.273
18	H41	* HDUC1800CG2000	139.84	40	18.000	0.172	7.580
20	H41	* HDUC2000CG2000	168.75	40	20.000	0.199	9.146
24	H41	* HDUC2400CG2000	231.27	40	24.000	0.230	12.536

EnviroKing® UV Resistant Pipe

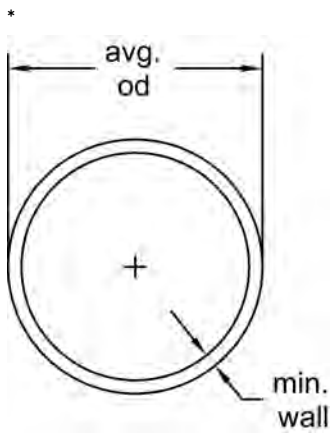


EnviroKing® UV Resistant Clear PVC Pipe Thinwall - 10 ft lengths

- Max Water Pressure at 73°F (22.7°C) with solvent-cemented joints
- Must be purchased in full box qty
- 20ft Plain end length available upon request

Size (inch)	P/L	Part No.	USD
2	H20	* HTW00200EK1000	5.15
3	H20	* HTW00300EK1000	10.92
4	H20	* HTW00400EK1000	18.86
6	H20	* HTW00600EK1000	29.78
8	H20	* HTW00800EK1000	39.02
10	H20	* HTW01000EK1000	55.39
12	H20	* HTW01200EK1000	65.89

Box Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
120	2.375	0.091	0.456	80
60	3.500	0.135	0.966	80
40	4.500	0.173	1.569	80
10	6.625	0.172	2.391	70
10	8.625	0.172	3.134	53
10	10.750	0.172	3.923	43
10	12.750	0.172	4.666	36



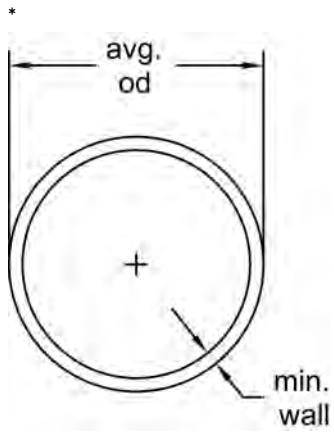
EnviroKing® UV Resistant Clear PVC Pipe Schedule 40 - 10 ft lengths

- Max Water Pressure at 73°F (22.7°C) with solvent-cemented joints
- Must be purchased in full box qty
- 20ft Plain end length available upon request

Pipe Size (inch)	Part No.	USD
1/2	* H0400050EK1000	1.88
3/4	* H0400075EK1000	2.52
1	* H0400100EK1000	3.73
1 1/4	* H0400125EK1000	5.06
1 1/2	* H0400150EK1000	6.05
2	* H0400200EK1000	8.15
2 1/2	* H0400250EK1000	12.87
3	* H0400300EK1000	16.82
3 1/2	* H0400350EK1000	21.37
4	* H0400400EK1000	25.32
5	* H0400500EK1000	35.25
6	* H0400600EK1000	46.30

Box Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
350	0.840	0.109	0.170	300
250	1.050	0.113	0.226	240
250	1.315	0.133	0.333	220
200	1.660	0.140	0.450	180
160	1.900	0.145	0.537	170
120	2.375	0.154	0.720	140
80	2.875	0.203	1.136	150
60	3.500	0.216	1.488	130

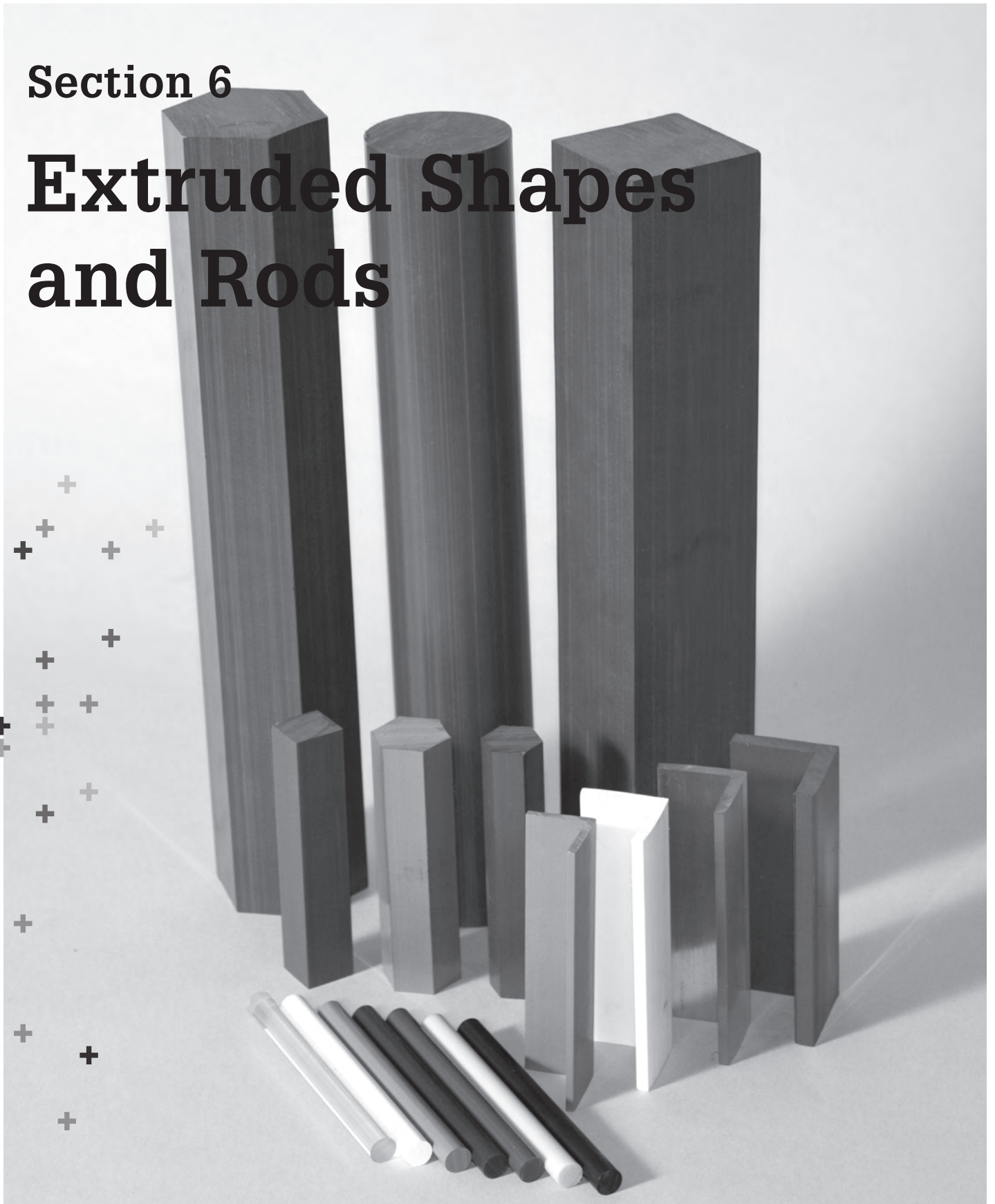
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Box Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
40	4.000	0.226	1.789	120
40	4.500	0.237	2.118	110
10	5.563	0.258	2.726	95
10	6.625	0.280	3.733	90

Section 6

Extruded Shapes and Rods



The technical information given in this publication implies no warranty of any kind and is subject to change without notice. Please consult our Terms and Conditions of Sale.

For complete technical information, please consult the GF Harvel Engineering and Installation Guide available online at www.gfpiping.com/resource.html [see "Technical Docs"] or by calling (800) 854-4090.

For more information about any of our product lines, please call (800) 854-4090.

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CPVC Extruded Shapes and Rods

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Specifications and Standards

Specifications and Standards

NSF/ANSI Standard 61

FDA Title 21 : Applies to PVC Type 2, Grade 1 (Clear) Cell Classification 16443

ASTM D 1784 : Material PVC Type I, Grade I (White, Gray, or Black) Cell Classification 12454

Material PVC Type 2, Grade I (Clear) Cell Classification 16443

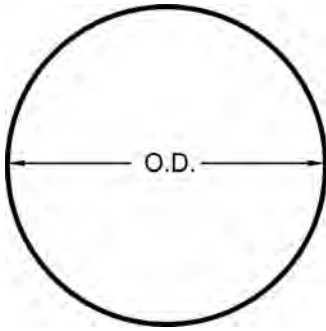
Material CPVC Type IV, Grade I, Cell Classification 23447

ASTM D 6263 : Standard Specification for Extruded Rods and Bars made from Rigid PVC & CPVC

Refer to GF Harvel Engineering and Installation Guide for additional information

PVC Extruded Shapes and Rods

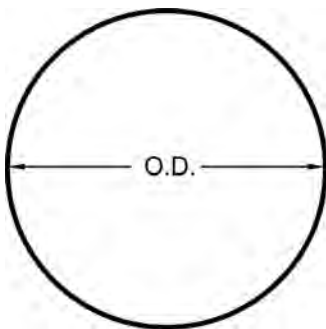
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PVC Solid Round Bar - Gray

Pipe Size (inch)	P/L	Part No.	USD	O.D. (inch)	Wt/Ft (lbs/ft)
¼	H32	^ HROD0025PS1000	Call	0.250	0.029
⅜	H32	^ HROD0038PS1000	Call	0.375	0.066
½	H32	^ HROD0050PS1000	Call	0.500	0.117
⅝	H32	^ HROD0063PS1000	Call	0.625	0.183
¾	H32	^ HROD0075PS1000	Call	0.750	0.265
⅞	H32	^ HROD0088PS1000	Call	0.875	0.358
1	H32	^ HROD0100PS1000	Call	1.000	0.471
1 ⅛	H32	^ HROD0113PS1000	Call	1.125	0.594
1 ¼	H32	^ HROD0125PS1000	Call	1.250	0.736
1 ⅜	H32	^ HROD0138PS1000	Call	1.375	0.891
1 ½	H32	^ HROD0150PS1000	Call	1.500	1.600
1 ⅝	H32	^ HROD0163PS1000	Call	1.625	1.244
1 ¾	H32	^ HROD0175PS1000	Call	1.750	1.440
1 ⅞	H32	^ HROD0188PS1000	Call	1.875	1.657
2	H32	^ HROD0200PS1000	Call	2.000	1.890
2 ⅛	H32	^ HROD0213PS1000	Call	2.125	2.128
2 ¼	H32	^ HROD0225PS1000	Call	2.250	2.384
2 ⅝	H32	^ HROD0238PS1000	Call	2.375	2.658
2 ½	H32	^ HROD0250PS1000	Call	2.500	2.950
2 ¾	H32	^ HROD0275PS1000	Call	2.750	3.560
3	H32	^ HROD0300PS1000	Call	3.000	4.224
3 ¼	H32	^ HROD0325PS1000	Call	3.250	4.975
3 ½	H32	^ HROD0350PS1000	Call	3.500	5.770
4	H32	^ HROD0400PS0500	Call	4.000	7.550
4 ½	H32	^ HROD0450PS0500	Call	4.500	9.555
5	H32	^ HROD0500PS0500	Call	5.000	11.700
5 ½	H32	^ HROD0550PS0500	Call	5.500	14.300
6	H32	^ HROD0600PS0500	Call	6.000	17.100
7	H32	^ HROD0700PS0500	Call	7.000	24.010
8	H32	^ HROD0800PS0500	Call	8.000	31.360
9	H32	^ HROD0900PS0500	Call	9.000	39.690
10	H32	^ HROD1000PS0500	Call	10.000	49.000

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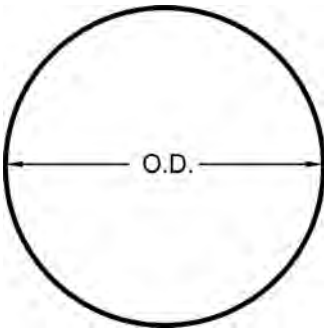


PVC Solid Round Bar - White

Pipe Size (inch)	P/L	Part No.	USD	O.D. (inch)	Wt/Ft (lbs/ft)
¼	H34	^ HROD0025PW1000	Call	0.250	0.029
⅜	H34	^ HROD0038PW1000	Call	0.375	0.066
½	H34	^ HROD0050PW1000	Call	0.500	0.117
⅝	H34	^ HROD0063PW1000	Call	0.625	0.183
¾	H34	^ HROD0075PW1000	Call	0.750	0.265
⅞	H34	^ HROD0088PW1000	Call	0.875	0.358
1	H34	^ HROD0100PW1000	Call	1.000	0.471
1 ⅛	H34	^ HROD0113PW1000	Call	1.125	0.594
1 ¼	H34	^ HROD0125PW1000	Call	1.250	0.736
1 ⅜	H34	^ HROD0138PW1000	Call	1.375	0.891
1 ½	H34	^ HROD0150PW1000	Call	1.500	1.060
1 ⅝	H34	^ HROD0163PW1000	Call	1.625	1.244
1 ¾	H34	^ HROD0175PW1000	Call	1.750	1.440
1 ⅞	H34	^ HROD0188PW1000	Call	1.875	1.657
2	H34	^ HROD0200PW1000	Call	2.000	1.890

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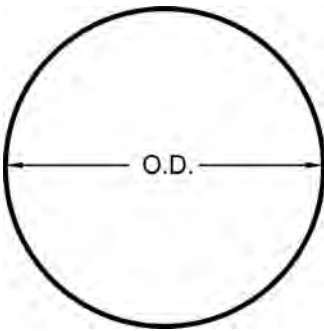
PVC Solid Round Bar - Black



Pipe Size (inch)	P/L	Part No.	USD	O.D. (inch)	Wt/Ft (lbs/ft)
¼	H34	^ HROD0025PK1000	Call	0.250	0.029
⅜	H34	^ HROD0038PK1000	Call	0.375	0.066
½	H34	^ HROD0050PK1000	Call	0.500	0.117
⅝	H34	^ HROD0063PK1000	Call	0.625	0.183
¾	H34	^ HROD0075PK1000	Call	0.750	0.265
⅞	H34	^ HROD0088PK1000	Call	0.875	0.358
1	H34	^ HROD0100PK1000	Call	1.000	0.471
1 ⅛	H34	^ HROD0113PK1000	Call	1.125	0.594
1 ¼	H34	^ HROD0125PK1000	Call	1.250	0.736
1 ⅜	H34	^ HROD0138PK1000	Call	1.375	0.891
1 ½	H34	^ HROD0150PK1000	Call	1.500	1.060
1 ⅝	H34	^ HROD0163PK1000	Call	1.625	1.244
1 ¾	H34	^ HROD0175PK1000	Call	1.750	1.440
1 ⅞	H34	^ HROD0188PK1000	Call	1.875	1.657
2	H34	^ HROD0200PK1000	Call	2.000	1.890

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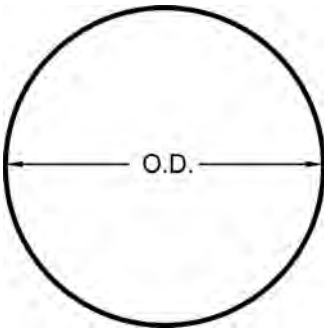
PVC Solid Round Bar - Clear



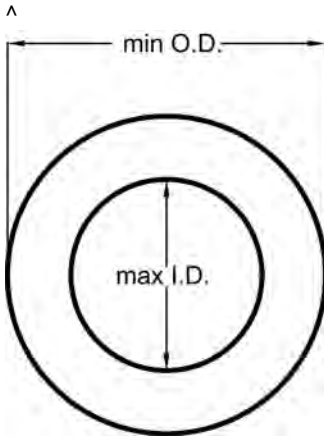
Pipe Size (inch)	P/L	Part No.	USD	O.D. (inch)	Wt/Ft (lbs/ft)
¼	H39	^ HROD0025PL1000	Call	0.250	0.029
⅜	H39	^ HROD0038PL1000	Call	0.375	0.066
½	H39	^ HROD0050PL1000	Call	0.500	0.117
⅝	H39	^ HROD0063PL1000	Call	0.625	0.183
¾	H39	^ HROD0075PL1000	Call	0.750	0.265
⅞	H39	^ HROD0088PL1000	Call	0.875	0.358
1	H39	^ HROD0100PL1000	Call	1.000	0.471

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PVC Centerless Ground Bar - Gray

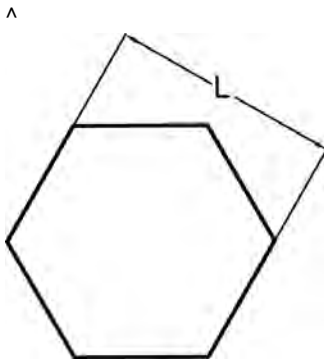


Pipe Size (inch)	P/L	Part No.	USD	O.D. (inch)	Wt/Ft (lbs/ft)
¼	H33	^ HROD0025PC1000	Call	0.250	0.029
⅜	H33	^ HROD0038PC1000	Call	0.375	0.066
½	H33	^ HROD0050PC1000	Call	0.500	0.117
⅝	H33	^ HROD0063PC1000	Call	0.625	0.183
¾	H33	^ HROD0075PC1000	Call	0.750	0.265
⅞	H33	^ HROD0088PC1000	Call	0.875	0.358
1	H33	^ HROD0100PC1000	Call	1.000	0.471
1 ⅛	H33	^ HROD0113PC1000	Call	1.125	0.594
1 ¼	H33	^ HROD0125PC1000	Call	1.250	0.736
1 ⅜	H33	^ HROD0138PC1000	Call	1.375	0.891
1 ½	H33	^ HROD0150PC1000	Call	1.500	1.060
1 ⅝	H33	^ HROD0163PC1000	Call	1.625	0.244
1 ¾	H33	^ HROD0175PC1000	Call	1.750	1.440
1 ⅞	H33	^ HROD0188PC1000	Call	1.875	1.657
2	H33	^ HROD0200PC1000	Call	2.000	1.890
2 ⅛	H33	^ HROD0213PC0500	Call	2.125	2.128
2 ¼	H33	^ HROD0225PC0500	Call	2.250	2.384
2 ⅝	H33	^ HROD0238PC0500	Call	2.375	2.658
2 ½	H33	^ HROD0250PC0500	Call	2.500	2.950



PVC Hollow Bar - Gray

Minimum O.D. (inch)	Maximum I.D. (inch)	P/L	Part No.	USD	Wt/Ft (lbs/ft)
1.625	0.562	H35	^ HHOL1625PG1000	Call	1.154
1.900	0.562	H35	^ HHOL1901PG1000	Call	1.647
2.000	1.250	H35	^ HHOL2000PG1000	Call	1.285
2.125	0.750	H35	^ HHOL2125PG1000	Call	2.010
2.250	1.125	H35	^ HHOL2250PG1000	Call	2.025
2.250	1.500	H35	^ HHOL2251PG1000	Call	1.625
2.375	1.000	H35	^ HHOL2375PG1000	Call	2.393
2.500	1.000	H35	^ HHOL2500PG1000	Call	2.680
2.500	1.500	H35	^ HHOL2501PG1000	Call	2.209
2.625	1.500	H35	^ HHOL2625PG1000	Call	2.511
2.750	1.000	H35	^ HHOL2750PG1000	Call	3.299
3.000	1.000	H35	^ HHOL3000PG1000	Call	3.976
3.000	1.250	H35	^ HHOL3001PG1000	Call	3.770
3.000	1.500	H35	^ HHOL3002PG1000	Call	3.375
3.000	2.000	H35	^ HHOL3003PG1000	Call	2.798
3.250	1.250	H35	^ HHOL3250PG1000	Call	4.506
3.500	1.500	H35	^ HHOL3500PG1000	Call	5.037
3.563	1.500	H35	^ HHOL3563PG1000	Call	5.245
4.000	2.500	H35	^ HHOL4000PG1000	Call	5.153
4.000	3.000	H35	^ HHOL4001PG1000	Call	3.845
4.250	1.750	H35	^ HHOL4250PG1000	Call	7.452
4.500	2.000	H35	^ HHOL4500PG1000	Call	8.099
4.750	3.000	H35	^ HHOL4750PG1000	Call	7.069
5.000	3.000	H35	^ HHOL5000PG1000	Call	8.217
5.563	4.000	H35	^ HHOL5563PG0500	Call	7.954
6.000	2.437	H35	^ HHOL6000PG0500	Call	15.200
6.000	4.000	H35	HHOL6002PG0500	Call	11.190
6.625	2.875	H35	^ HHOL6625PG0500	Call	18.030
6.625	4.000	H35	^ HHOL6626PG0500	Call	14.910
8.625	5.750	H35	^ HHOL8625PG0500	Call	21.400



PVC Hexagonal Bar - Gray

Pipe Size (inch)	P/L	Part No.	USD	L (inch)	Wt/Ft (lbs/ft)
7/16	H36	^ HHEX0044PG1000	Call	0.438	0.108
1/2	H36	^ HHEX0050PG1000	Call	0.500	0.142
5/16	H36	^ HHEX0056PG1000	Call	0.563	0.180
3/8	H36	^ HHEX0063PG1000	Call	0.625	0.222
3/4	H36	^ HHEX0075PG1000	Call	0.750	0.320
13/16	H36	^ HHEX0081PG1000	Call	0.813	0.375
7/8	H36	^ HHEX0088PG1000	Call	0.875	0.435
1	H36	^ HHEX0100PG1000	Call	1.000	0.569
1 1/8	H36	^ HHEX0113PG1000	Call	1.125	0.721
1 1/4	H36	^ HHEX0125PG1000	Call	1.250	0.890
1 3/8	H36	^ HHEX0138PG1000	Call	1.375	1.080
1 1/2	H36	^ HHEX0150PG1000	Call	1.500	1.283
1 3/4	H36	^ HHEX0175PG1000	Call	1.750	1.746
2	H36	^ HHEX0200PG1000	Call	0.125	2.280

^

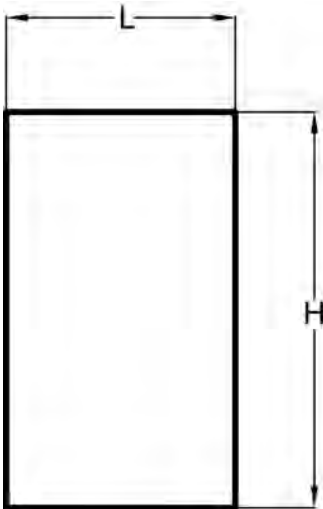
PVC Square Bar - Gray



Pipe Size (inch)	P/L	Part No.	USD	L (inch)	Wt/Ft (lbs/ft)
1/2	H37	^ HSQU0050PG1000	Call	0.500	0.157
3/8	H37	^ HSQU0063PG1000	Call	0.625	0.238
3/4	H37	^ HSQU0075PG1000	Call	0.750	0.360
1	H37	^ HSQU0100PG1000	Call	1.000	0.629
1 1/4	H37	^ HSQU0125PG0800	Call	1.250	1.033
1 1/2	H37	^ HSQU0150PG0800	Call	1.500	1.464
2	H37	^ HSQU0200PG0800	Call	2.000	2.452

^

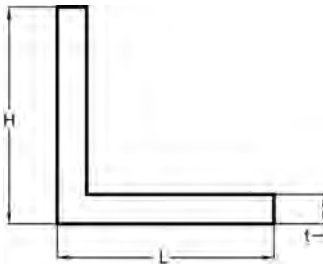
PVC Rectangular Bar - Gray



Pipe Size (inch)	P/L	Part No.	USD	L (inch)	H (inch)	Wt/Ft (lbs/ft)
1/2 x 3/4	H38	^ HREC0050PG1000	Call	0.500	0.750	0.225

^

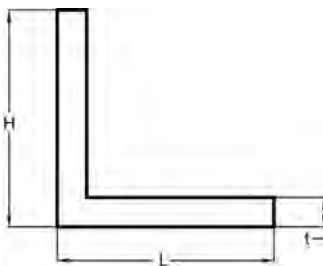
PVC Angle Bar - Gray



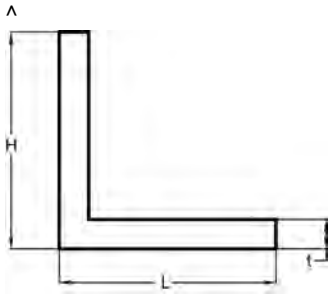
Size (inch)	P/L	Part No.	USD	H (inch)	L (inch)	T (inch)	Wt/Ft (lbs/ft)
1 x 1 x 1/8	H31	^ HANG0100PG1000	Call	1.00	1.00	0.125	0.141
1 1/4 x 1 1/4 x 3/16	H31	^ HANG0125PG1000	Call	1.25	1.25	0.188	0.262
1 1/2 x 1 1/2 x 3/16	H31	^ HANG0151PG1000	Call	1.50	1.50	0.188	0.316
1 1/2 x 1 1/2 x 1/4	H31	^ HANG0150PG1000	Call	1.50	1.50	0.250	0.415
2 x 2 x 1/4	H31	^ HANG0200PG1000	Call	2.00	2.00	0.250	0.563

^

PVC Angle Bar - White



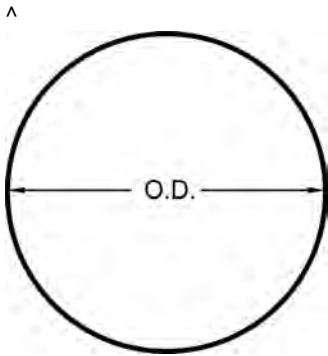
Size (inch)	P/L	Part No.	USD	H (inch)	L (inch)	T (inch)	lbs per 100ft. (lb)	Wt/Ft (lbs/ft)
1 x 1 x 1/8	H31	^ HANG0100PW1000	Call	1.00	1.00	0.125	14.10	0.141
1 1/4 x 1 1/4 x 3/16	H31	^ HANG0125PW1000	Call	1.25	1.25	0.188	26.20	0.262
1 1/2 x 1 1/2 x 3/16	H31	^ HANG0151PW1000	Call	1.50	1.50	0.188	31.60	0.316
2 x 2 x 1/4	H31	^ HANG0200PW1000	Call	2.00	2.00	0.250	56.30	0.563



PVC Angle Bar - Clear

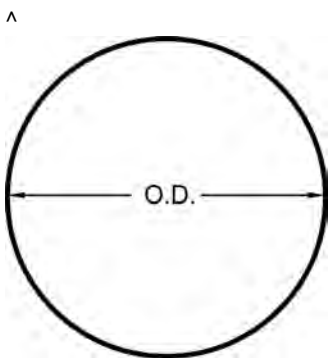
Size (inch)	P/L	Part No.	USD	H (inch)	L (inch)	T (inch)	Wt/Ft (lbs/ft)
1 x 1 x 1 1/8	H40	^ HANG0100PL1000	Call	1.00	1.00	0.125	0.141
1 1/4 x 1 1/4 x 3/16	H40	^ HANG0125PL1000	Call	1.25	1.25	0.188	0.262
1 1/2 x 1 1/2 x 3/16	H40	^ HANG0150PL1000	Call	1.50	1.50	0.188	0.316
1 1/2 x 1 1/2 x 1/4	H40	^ HANG0151PL1000	Call	1.50	1.50	0.250	0.415
2 x 2 x 1/4	H40	^ HANG0200PL1000	Call	2.00	2.00	0.250	0.563

CPVC Extruded Shapes and Rods



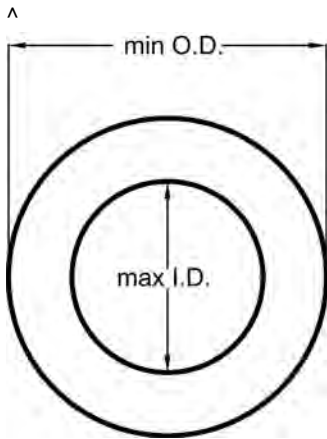
CPVC Solid Round Bar - Gray

Pipe Size (inch)	P/L	Part No.	USD	O.D. (inch)	Wt/Ft (lbs/ft)
1/4	H43	^ HROD0025CS1000	Call	0.250	0.032
3/8	H43	^ HROD0038CS1000	Call	0.375	0.074
1/2	H43	^ HROD0050CS1000	Call	0.500	0.131
3/4	H43	^ HROD0075CS1000	Call	0.750	0.296
1	H43	^ HROD0100CS1000	Call	1.000	0.526
1 1/4	H43	^ HROD0125CS1000	Call	1.250	0.821
1 3/8	H43	HROD0138CS1000	Call	1.375	0.994
1 1/2	H43	^ HROD0150CS1000	Call	1.500	1.183
1 3/4	H43	^ HROD0175CS1000	Call	1.750	1.618
2	H43	^ HROD0200CS0500	Call	2.000	2.109
2 1/2	H43	^ HROD0250CS0500	Call	2.500	3.375
3	H43	^ HROD0300CS0500	Call	3.000	4.595
3 1/2	H43	^ HROD0350CS0500	Call	3.500	6.439
4	H43	^ HROD0400CS0500	Call	4.000	8.460
5	H43	^ HROD0500CS0500	Call	5.000	13.950
6	H43	^ HROD0600CS0500	Call	6.000	20.395



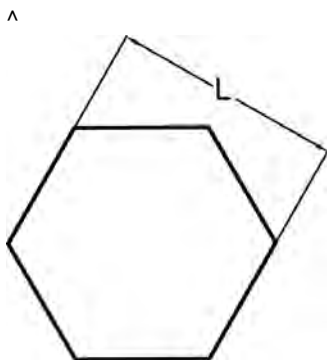
CPVC Centerless Ground Bar - Gray

Pipe Size (inch)	P/L	Part No.	USD	O.D. (inch)	Wt/Ft (lbs/ft)
1/4	H44	^ HROD0025CC1000	Call	0.250	0.032
3/8	H44	^ HROD0038CC1000	Call	0.375	0.074
1/2	H44	^ HROD0050CC1000	Call	0.500	0.131
3/4	H44	^ HROD0075CC1000	Call	0.750	0.296
1	H44	^ HROD0100CC1000	Call	1.000	0.526
1 1/4	H44	^ HROD0125CC1000	Call	1.250	0.821
1 3/8	H44	^ HROD0138CC1000	Call	1.375	0.994
1 1/2	H44	^ HROD0150CC1000	Call	1.500	1.183
1 3/4	H44	^ HROD0175CC1000	Call	1.750	1.618
2	H44	^ HROD0200CC0500	Call	2.000	2.109
2 1/2	H44	^ HROD0250CC0500	Call	2.500	3.375



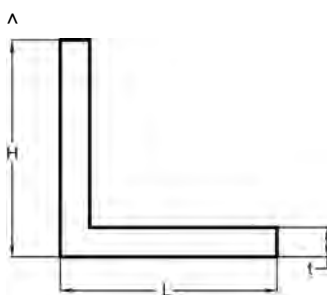
CPVC Hollow Bar - Gray

Minimum O.D. (inch)	Maximum I.D. (inch)	P/L	Part No.	USD	Wt/Ft (lbs/ft)
1.625	0.562	H45	^ HHOL1625CG1000	Call	1.288
2.125	0.750	H45	^ HHOL2125CG1000	Call	2.243
2.250	1.125	H45	^ HHOL2250CG1000	Call	2.260
1.375	1.000	H45	^ HHOL2375CG1000	Call	2.671
2.625	1.500	H45	^ HHOL2625CG1000	Call	2.802
2.750	1.000	H45	^ HHOL2750CG1000	Call	3.682
2.875	1.500	H45	^ HHOL2875CG1000	Call	3.525
3.000	1.250	H45	^ HHOL3001CG1000	Call	4.207
3.563	1.500	H45	^ HHOL3563CG1000	Call	5.853
4.000	2.500	H45	^ HHOL4000CG1000	Call	5.751
4.250	1.750	H45	^ HHOL4250CG1000	Call	8.316
4.750	3.000	H45	^ HHOL4750CG1000	Call	7.889
5.000	3.000	H45	^ HHOL5000CG1000	Call	9.170
6.625	2.875	H45	^ HHOL6625CG0500	Call	20.121
6.625	4.000	H45	^ HHOL6626CG0500	Call	16.640



CPVC Hexagonal Bar - Gray

Pipe Size (inch)	P/L	Part No.	USD	L (inch)	Wt/Ft (lbs/ft)
3/16	H46	^ HHEX0044CG1000	Call	0.438	0.121
1/2	H46	^ HHEX0050CG1000	Call	0.500	0.159
5/16	H46	^ HHEX0056CG1000	Call	0.563	0.202
3/8	H46	^ HHEX0063CG1000	Call	0.625	0.249
7/16	H46	^ HHEX0075CG1000	Call	0.750	0.359
13/16	H46	^ HHEX0081CG1000	Call	0.813	0.421
7/8	H46	^ HHEX0088CG1000	Call	0.875	0.489
1	H46	^ HHEX0100CG1000	Call	1.000	0.639
1 1/8	H46	^ HHEX0113CG1000	Call	1.125	0.810
1 1/4	H46	^ HHEX0125CG1000	Call	1.250	0.999
1 3/8	H46	^ HHEX0138CG1000	Call	1.375	1.213
1 1/2	H46	^ HHEX0150CG1000	Call	1.500	1.441
2	H46	^ HHEX0200CG1000	Call	2.000	2.560

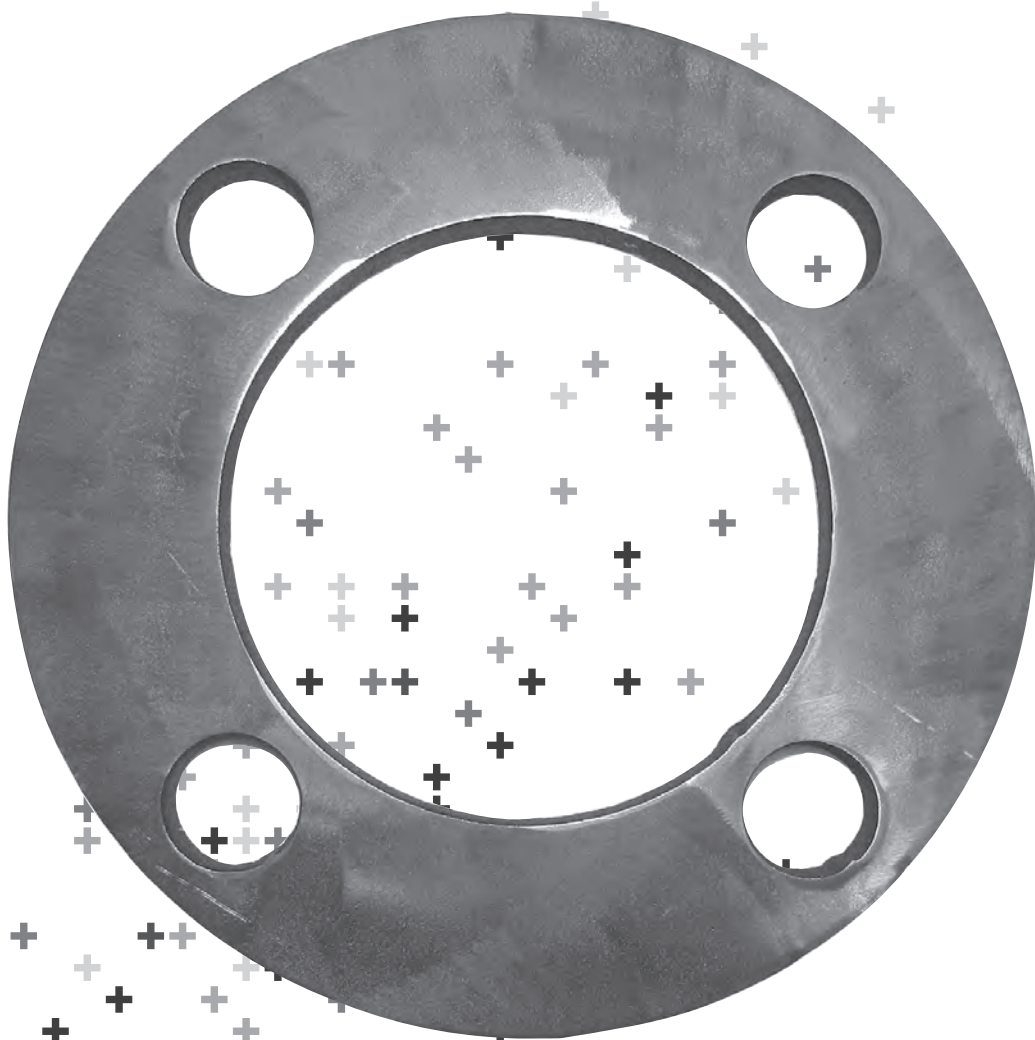


CPVC Angle Bar - Gray

Size (inch)	P/L	Part No.	USD	H (inch)	L (inch)	T (inch)	Wt/Ft (lbs/ft)
1 x 1 x 1 1/8	H42	^ HANG0100CG1000	Call	1.00	1.00	0.125	0.180
1 1/4 x 1 1/4 x 3/16	H42	^ HANG0125CG1000	Call	1.25	1.25	0.188	0.325
1 1/2 x 1 1/2 x 1 1/4	H42	^ HANG0151CG1000	Call	1.50	1.50	0.250	0.395
2 x 2 x 1/4	H42	^ HANG0200CG1000	Call	2.00	2.00	0.250	0.645

Section 7

Joining Accessories



304SS Flange Backing Rings



Size	P/L	Part No.	USD	Pack Qty
1/2	607	* 37X003308	17.00	1
3/4	607	* 37X003309	18.00	1
1	607	* 37X003310	20.00	1
1 1/4	607	* 37X003337	25.00	1
1 1/2	607	* 37X003311	35.00	1
2	607	* 37X003312	45.00	1
2 1/2	607	* 37X003338	55.00	1
3	607	* 37X003313	65.00	1
4	607	* 37X003334	75.00	1
6	607	* 37X003335	100.00	1
8	607	* 37X003336	225.00	1
10	607	* 37X003339	300.00	1
12	607	* 37X003340	375.00	1

EPDM Full Face Flange Gasket - 150# ANSI Bolt Pattern



Size	P/L	Part No.	USD	Pack Qty
1/2	607	* 37X002001	3.00	5
3/4	607	* 37X002002	4.00	5
1	607	* 37X002003	4.50	5
1 1/4	607	* 37X002004	5.00	5
1 1/2	607	* 37X002005	6.25	5
2	607	* 37X002006	8.65	5
2 1/2	607	* 37X002007	11.75	5
3	607	* 37X002008	12.25	5
4	607	* 37X002009	20.00	5
5	607	* 37X002019	25.00	1
6	607	* 37X002010	28.00	2
8	607	* 37X002011	50.00	2
10	607	* 37X002012	57.00	2
12	607	* 37X002013	86.00	2
14	607	* 37X002014	115.00	1
16	607	* 37X002015	130.00	1
18	607	* 37X002016	175.00	1
20	607	* 37X002017	185.00	1
24	607	* 37X002018	215.00	1

FKM Full Face Flange Gasket - 150# ANSI Bolt Pattern



Size	P/L	Part No.	USD	Pack Qty
1/2	607	* 37X002110	4.40	5
3/4	607	* 37X002111	5.90	5
1	607	* 37X002112	6.75	5
1 1/4	607	* 37X002113	7.50	5
1 1/2	607	* 37X002114	9.75	5
2	607	* 37X002115	13.50	5
2 1/2	607	* 37X002116	19.50	5
3	607	* 37X002117	21.00	5
4	607	* 37X002118	31.50	5
5	607	* 37X002128	39.00	1
6	607	* 37X002119	43.00	2
8	607	* 37X002120	79.00	2
10	607	* 37X002121	100.00	2
12	607	* 37X002122	160.00	2
14	607	* 37X002123	175.00	1
16	607	* 37X002124	195.00	1
18	607	* 37X002125	290.00	1
20	607	* 37X002126	325.00	1
24	607	* 37X002127	330.00	1

EPDM Full Face Flange Gasket - 300# ANSI Bolt Pattern



Size (inch)	P/L	Part No.	USD	Pack Qty
1/2	607	* 37X002021	9.50	5
3/4	607	* 37X002022	9.75	5
1	607	* 37X002023	10.00	5
1 1/4	607	* 37X002024	11.00	5
1 1/2	607	* 37X002025	14.00	5
2	607	* 37X002026	15.50	5
2 1/2	607	* 37X002027	20.00	5
3	607	* 37X002028	23.00	5
4	607	* 37X002029	33.00	5
6	607	* 37X002031	50.00	2
8	607	* 37X002032	70.00	2
10	607	* 37X002033	94.00	2
12	607	* 37X002034	125.00	2

316SS Flange Bolt Kits - 150#



- The kits will include the appropriate number of UNC bolts, SAE washers, and nuts prelubricated prior to packaging.

P/L	Part No.	USD	Flange Size (inch)	Bolts Per Kit	Bolt Length (inch)	Bolt Size (inch)
607	* 37Z000061	26.00	1/2	4	2.50	1/2
607	* 37Z000062	26.00	3/4	4	2.50	1/2
607	* 37Z000063	26.00	1	4	2.75	1/2
607	* 37Z000064	26.00	1 1/4	4	2.75	1/2
607	* 37Z000065	30.00	1 1/2	4	3.25	1/2
607	* 37Z000066	39.00	2	4	3.50	5/8
607	* 37Z000067	43.00	2 1/2	4	4.00	5/8
607	* 37Z000068	43.00	3	4	4.00	5/8
607	* 37Z000069	95.00	4	8	4.25	5/8
607	* 37Z000070	160.00	6	8	4.50	3/4
607	* 37Z000071	475.00	8	8	6.00	3/4
607	* 37Z000072	475.00	10	12	6.00	7/8

table continued on the next page

*

P/L	Part No.	USD	Flange Size (inch)	Bolts Per Kit	Bolt Length (inch)	Bolt Size (inch)
607	* 37Z000073	475.00	12	12	6.00	7/8
607	* 37Z000074	725.00	14	12	5.00	1
607	* 37Z000075	1,000.00	16	16	5.50	1
607	* 37Z000076	1,550.00	18	16	5.50	1 1/8
607	* 37Z000077	2,100.00	20	20	6.00	1 1/8
607	* 37Z000078	2,500.00	24	20	6.50	1 1/4



PPC Plastic Pipe Cutter

- For cutting plastic pipes 1/2" - 6"

Size (inch)	P/L	Part No.	USD	Max. Wall (inch)
1/2 - 2	607	790 109 001	Call	0.28
1 1/2 - 4	607	790 109 002	Call	0.50
4 - 6	607	790 109 003	Call	0.75



KS 355 Plastic Pipe Cutter

- For 6" - 14" diameter pipe with wall thickness 5/16" - 1-1/2"
- Unique clamping mechanism. No additional belts, chains or reduction inserts needed.
- Supplied with transport box: Dimensions 27.50" x 13.75" x 19.70"; Weight 34.5 lbs.

Size (inch)	P/L	Part No.	USD	Power
6 - 14	607	790 202 001	Call	1750 W; 230 V; 50/60 Hz



150 109 104

Chamfering Tools

- Chamfering tool with 15° bevel

Size (inch)	P/L	Part No.	USD
1 1/4 - 4	607	150 109 104	Call
2 - 14	607	790 309 004	Call



Section 8

Metric PVC Piping System

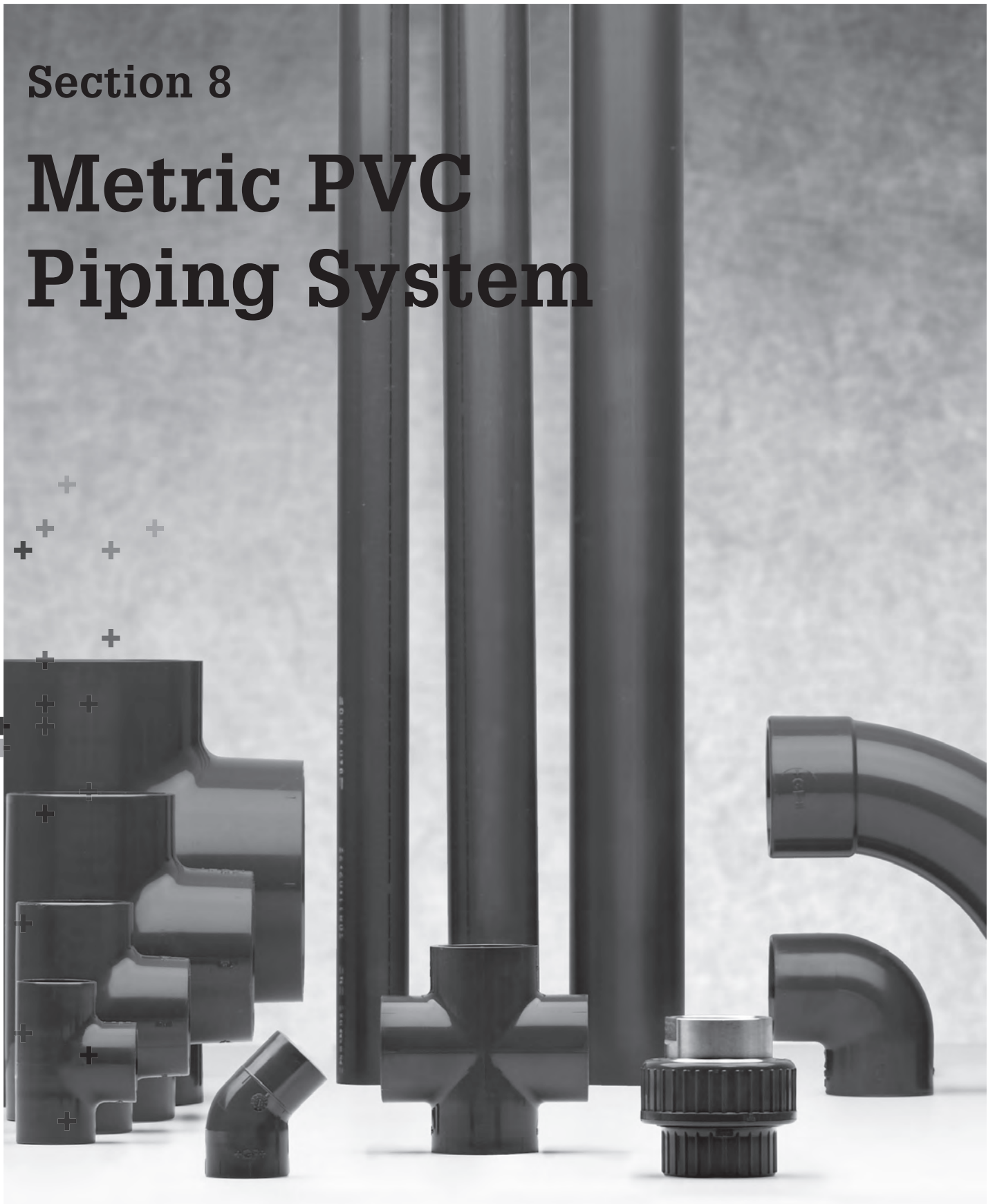


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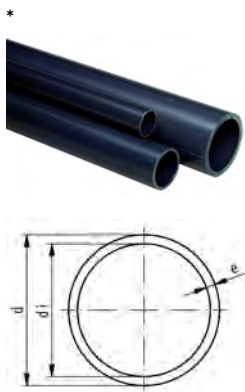


Accessories and special parts

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Pipes

Pipes



Pipes PVC, grey Series S 6.3, SDR 13.6, nominal pressure PN 16

Model:

- Material: PVC, Polyvinylchloride unplasticized DIN 806
- Color: RAL 7011 - dark-grey
- Dimension: DIN EN ISO 15493, DIN 8062
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length
- DIBT Z-40.23-1 from d20

d	Size (NB)	PN	Part No.	USD / m	weight	e	di
(mm)	(inch)	(bar)			(kg/m)	(mm)	(mm)
12		16	* 161 017 104	2.13	0.062	1.0	10.0
16		16	* 161 017 105	2.56	0.091	1.2	13.6
20		16	* 161 017 106	3.74	0.139	1.5	17.0
25		16	* 161 017 107	5.11	0.215	1.9	21.2
32		16	* 161 017 108	7.46	0.347	2.4	27.2
40		16	* 161 017 109	11.62	0.533	3.0	34.0
50		16	* 161 017 110	16.21	0.821	3.7	42.6
63		16	* 161 017 111	26.65	1.310	4.7	53.6
75	2 ½	16	* 161 017 112	39.34	1.850	5.6	58.2
90		16	* 161 017 113	50.95	2.640	6.7	76.6
110		16	* 161 017 114	76.43	3.910	8.1	93.8
125		16	161 017 115	Call	5.040	9.2	106.6
140	5	16	161 017 116	Call	6.030	10.3	119.4
160		16	* 161 017 117	162.14	8.230	11.8	136.4



Pipes PVC, grey Series S 10, SDR 21, nominal pressure PN 10

Model:

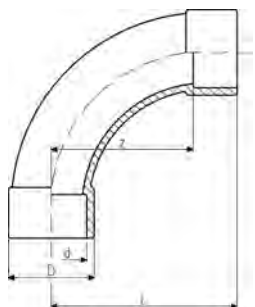
- Material: PVC, Polyvinylchloride unplasticized DIN 806
- Color: RAL 7011 - dark-grey
- Dimension: DIN EN ISO 15493, DIN 8062
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length
- DIBT Z-40.23-1 until d225

d	PN	Part No.	USD / m	weight	e	di
(mm)	(bar)			(kg/m)	(mm)	(mm)
25	10	* 161 017 082	4.48	0.177	1.5	22.0
32	10	* 161 017 083	6.29	0.280	1.9	28.4
40	10	* 161 017 084	7.78	0.355	1.9	36.2
50	10	* 161 017 085	12.79	0.560	2.4	45.2
63	10	* 161 017 086	15.03	0.866	3.0	57.0
75	10	* 161 017 087	23.13	1.240	3.6	67.8
90	10	* 161 017 088	32.41	1.770	4.3	81.4
110	10	* 161 017 089	47.55	2.650	5.3	99.4
125	10	161 017 090	Call	3.390	6.0	113.0
140	10	161 017 091	Call	4.240	6.7	126.6
160	10	* 161 017 092	101.92	5.550	7.6	144.7
180	10	* 161 017 093	154.05	6.970	8.6	162.8
200	10	* 161 017 094	178.45	8.640	9.6	180.8
225	10	* 161 017 095	207.35	10.900	10.8	203.4
250	10	161 017 096	Call	13.300	11.9	226.2
280	10	161 017 097	Call	16.800	13.4	253.2
315	6	161 017 098	Call	21.200	15.0	285.0

Fittings

Pipe Fittings for solvent cement jointing

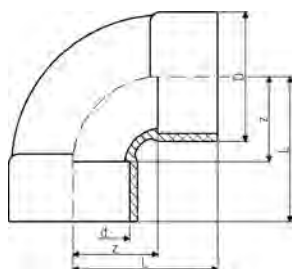
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Bends 90°, PVC metric

d (mm)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	D (mm)	L (mm)
20	16	721 000 106	8.75	10	0.029	40	56
25	16	721 000 107	9.17	10	0.049	50	69
32	16	721 000 108	12.79	10	0.074	64	86
40	16	721 000 109	16.21	30	0.121	80	106
50	16	721 000 110	24.30	5	0.298	100	131
63	16	721 000 111	29.00	6	0.516	126	164
75	16	721 000 112	65.99	5	0.798	150	194
90	16	721 000 113	74.20	5	1.373	180	231
110	16	^ 721 000 114	129.74	5	2.699	220	281
140	16	721 000 116	Call	2	5.204	280	356
160	16	^ 721 000 117	316.30	1	8.298	320	406

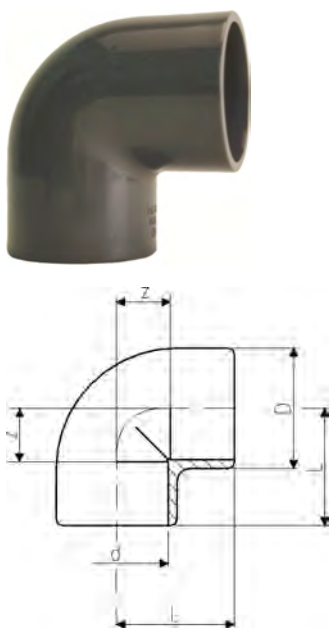
Bend 90° short pattern PVC-U metric



d (mm)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	D (mm)	L (mm)
225	10	721 010 120	Call	1	7.554	168	287
280	10	721 010 122	Call	1	16.987	210	357
315	6	721 010 123	Call	1	21.567	237	402
400	6	721 010 125	Call	1	30.000	300	521

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Elbows 90°, PVC metric



d (mm)	d (inch)	PN (bar)	Part No.	USD	SP	weight (kg)	z (mm)	D (mm)	L (mm)
6		16	721 100 101	2.13	10	0.004	4	11	16
8		16	721 100 102	2.13	10	0.004	5	13	17
10		16	721 100 103	2.13	10	0.004	6	14	18
12		16	721 100 104	2.13	10	0.006	7	17	19
16		16	721 100 105	2.13	10	0.007	9	21	23
20		16	721 100 106	2.24	10	0.012	11	25	27
25		16	721 100 107	2.35	10	0.024	14	32	33
32		16	721 100 108	2.67	10	0.043	17	40	39
40		16	721 100 109	5.11	10	0.062	23	47	49
50		16	721 100 110	6.72	10	0.107	26	59	57
63		16	721 100 111	10.44	10	0.205	33	73	71
75	2 ½	16	721 100 112	19.73	5	0.336	40	87	83
90		16	721 100 113	32.41	5	0.576	46	105	97
110		16	721 100 114	50.95	4	1.009	55	128	116
125		16	721 100 115	Call	1	1.522	63	146	131
140	5	16	721 100 116	Call	4	1.945	70	162	146
160		16	^ 721 100 117	198.07	2	2.873	80	185	166
200		10	* 721 100 119	342.95	1	4.446	101	225	207
225		10	* 721 100 120	342.95	1	5.989	114	252	233
250		10	721 100 121	Call	1	10.014	131	282	263

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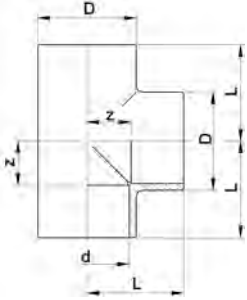
Elbows 45°, PVC metric



d (mm)	d (inch)	PN (bar)	Part No.	USD	SP	weight (kg)	z (mm)	D (mm)	L (mm)
16		16	721 150 105	3.94	10	0.008	5	21	19
20		16	721 150 106	3.94	10	0.011	5	25	21
25		16	721 150 107	3.94	10	0.017	6	31	25
32		16	721 150 108	4.48	10	0.021	8	38	30
40		16	721 150 109	6.61	10	0.048	10	47	36
50		16	721 150 110	7.68	5	0.086	12	59	43
63		16	721 150 111	11.62	5	0.160	14	73	52
75	2 ½	16	721 150 112	19.73	5	0.253	17	87	61
90		16	721 150 113	30.17	4	0.430	20	105	71
110		16	^ 721 150 114	68.33	4	0.750	25	127	86
125		16	721 150 115	Call	1	1.193	28	146	97
140	5	16	721 150 116	Call	1	1.570	32	162	108
160		16	* 721 150 117	130.91	4	2.280	36	185	122
200		10	* 721 150 119	225.90	2	3.288	43	225	149
225		10	* 721 150 120	247.97	1	4.191	49	250	168
250		10	721 150 121	Call	1	7.115	60	282	192
280		10	721 150 122	Call	1	10.340	66	318	213
315		6	721 150 123	Call	1	14.292	74	356	239
400		6	721 150 125	Call	1	25.268	94	442	302

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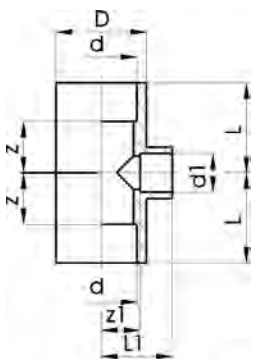
**Tees, PVC
metric**



d (mm)	d (inch)	PN (bar)	Part No.	USD	SP	weight (kg)	D (mm)	L (mm)	z (mm)
6		16	721 200 101	2.56	10	0.004	11	16	4
8		16	721 200 102	2.56	10	0.008	13	17	5
10		16	721 200 103	2.56	10	0.008	16	18	6
12		16	721 200 104	2.56	10	0.011	19	19	7
16		16	721 200 105	2.67	10	0.011	21	23	9
20		16	721 200 106	2.67	10	0.019	25	27	11
25		16	721 200 107	2.67	10	0.029	31	33	14
32		16	721 200 108	3.94	10	0.055	38	39	17
40		16	721 200 109	6.29	10	0.100	48	49	23
50		16	721 200 110	8.95	10	0.156	58	57	26
63		16	721 200 111	13.86	10	0.291	73	71	33
75	2 ½	16	721 200 112	23.13	5	0.476	87	83	39
90		16	721 200 113	42.86	4	0.824	105	97	46
110		16	^ 721 200 114	68.33	6	1.411	127	116	55
125		16	721 200 115	Call	2	2.521	151	135	66
140	5	16	721 200 116	Call	1	3.410	169	147	71
160		16	^ 721 200 117	222.48	1	4.982	193	167	81
200		10	* 721 200 119	356.81	1	5.868	225	207	101
225		10	* 721 200 120	386.98	1	9.268	256	233	114
250		10	721 200 121	Call	1	14.350	282	263	132
280		10	721 200 122	Call	1	19.541	318	298	152
315		6	721 200 123	Call	1	27.254	356	332	168
400		6	721 200 125	Call	1	35.000	442	420	214

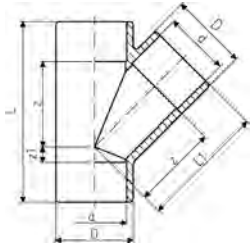
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Tee 90° reducing PVC-U metric



d (mm)	d1 (mm)	PN (bar)	d-d (inch)	Part No.	USD	SP	weight (kg)	z (mm)	z1 (mm)	D (mm)	L (mm)	L1 (mm)
25	20	16		721 200 134	4.16	10	0.038	14	14	33	33	30
32	20	16		721 200 141	5.75	10	0.061	17	17	41	39	33
32	25	16		721 200 138	5.75	10	0.063	17	17	41	39	36
40	20	16		721 200 155	8.21	10	0.103	23	23	50	49	39
40	25	16		721 200 151	8.21	10	0.107	23	23	50	49	42
40	32	16		721 200 147	8.21	10	0.109	23	23	50	49	45
50	20	16		721 200 009	10.44	5	0.179	28	28	62	59	44
50	25	16		721 200 010	10.44	5	0.183	28	28	62	59	47
50	32	16		721 200 164	10.44	5	0.189	28	28	62	59	50
50	40	16		721 200 161	10.44	5	0.208	28	28	62	59	54
63	25	16		721 200 011	17.38	10	0.332	35	34	77	73	53
63	32	16		721 200 178	17.38	5	0.336	35	34	77	73	56
63	40	16		721 200 174	17.38	5	0.347	35	34	77	73	60
63	50	16		721 200 170	17.38	5	0.354	35	34	77	73	65
75	32	16		721 200 181	29.00	9	0.535	40	41	92	84	63
75	40	16		721 200 182	29.00	9	0.555	40	41	92	84	67
75	50	16		721 200 183	29.00	8	0.541	40	41	92	84	72
75	63	16		721 200 184	29.00	8	0.570	40	41	92	84	79
90	32	16		721 200 142	49.78	6	0.855	46	55	110	97	77
90	50	16		721 200 144	49.78	6	0.907	46	55	110	97	86
90	63	16		721 200 145	49.78	5	0.931	46	55	110	97	93
90	75	16		^ 721 200 146	49.78	5	0.959	46	55	110	97	99
110	32	16		^ 721 200 135	81.12	3	1.441	56	67	133	117	89
110	50	16		^ 721 200 136	81.12	3	1.471	56	67	133	117	98
110	63	16		^ 721 200 132	81.12	3	1.522	56	65	133	117	103
110	75	16		^ 721 200 133	81.12	3	1.543	56	65	133	117	109
110	90	16		721 200 137	Call	3	1.634	56	65	133	117	116
125	50	16		721 200 139	Call	4	1.970	64	75	151	133	106
125	90	16		721 200 140	Call	4	2.200	64	75	151	133	126
140	50	16		721 200 148	Call	1	3.235	72	82	172	148	113
140	75	16	5 - 2 1/2	721 200 149	Call	1	3.319	72	78	172	148	122
140	110	16		* 721 200 150	232.82	1	3.422	72	74	172	148	135
160	110	16		* 721 200 152	266.51	1	4.305	81	81	192	167	142
200	110	10		* 721 200 153	426.32	1	8.782	107	131	232	213	192
200	160	10		* 721 200 154	426.32	1	8.036	107	106	232	213	192
225	110	10		* 721 200 156	466.93	1	10.619	120	143	257	239	204
225	160	10		721 200 157	Call	1	9.760	120	119	257	239	205
250	160	10		721 200 159	Call	1	14.520	132	151	282	263	237
250	200	10		721 200 162	Call	1	12.213	132	131	282	263	237
280	160	10		721 200 165	Call	1	18.402	120	180	318	266	266
280	225	10		721 200 167	Call	1	16.145	120	148	318	266	268
315	160	6		721 200 169	Call	1	22.189	120	197	356	284	283
315	225	6		721 200 172	Call	1	20.154	120	165	356	284	284
400	225	6		721 200 176	Call	1	40.000	163	258	442	369	377
400	315	6		721 200 180	Call	1	35.000	163	213	442	369	377

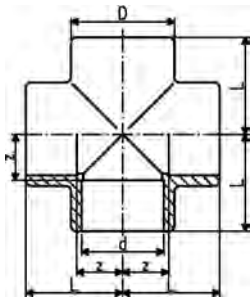
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Wye Branch, PVC metric

d (mm)	d (inch)	PN (bar)	Part No.	USD	SP	weight (kg)	z (mm)	z1 (mm)	D (mm)	L (mm)	L1 (mm)
10		10	721 250 103	5.11	100	0.013	18	4	16	46	30
12		10	721 250 104	5.11	100	0.014	21	4	18	49	33
16		10	721 250 105	5.75	100	0.022	25	5	23	58	39
20		10	721 250 106	8.21	10	0.035	30	6	28	68	46
25		10	721 250 107	8.75	10	0.056	36	9	33	83	55
32		10	721 250 108	9.27	10	0.096	45	10	41	99	67
40		10	721 250 109	15.03	10	0.159	56	10	50	118	82
50		10	721 250 110	17.38	8	0.265	66	12	60	140	97
63		10	721 250 111	27.82	5	0.439	85	14	74	175	123
75	2 ½	6	721 250 112	46.38	5	0.816	101	18	91	207	145
90		6	721 250 113	67.16	1	1.275	122	20	107	245	173
110		6	721 250 114	127.40	3	2.579	149	27	134	298	210
125		6	721 250 115	Call	2	3.616	167	30	147	335	236
140	5	6	721 250 116	Call	1	5.628	190	34	168	376	266
160		6	721 250 117	444.86	1	7.187	213	41	190	428	300
200		6	* 721 250 119	707.86	1	12.314	265	48	232	527	372
225		6	* 721 250 120	1,153.89	1	15.735	296	54	260	590	416
250		6	721 250 121	Call	1	20.350	330	60	286	654	462

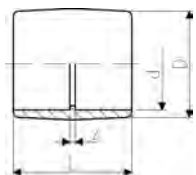
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Cross, PVC metric

d (mm)	d (inch)	PN (bar)	Part No.	USD	SP	weight (kg)	D (mm)	L (mm)	z (mm)
10		16	* 721 300 103	8.53	100	0.009	16	19	7
12		16	* 721 300 104	8.53	100	0.010	18	20	8
16		16	721 300 105	8.85	100	0.020	23	24	10
20		16	721 300 106	9.27	10	0.036	29	27	11
25		16	721 300 107	10.44	10	0.054	35	33	14
32		16	721 300 108	12.79	10	0.092	43	39	17
40		16	721 300 109	19.73	5	0.155	52	49	23
50		16	721 300 110	24.30	5	0.259	63	59	28
63		16	721 300 111	32.41	5	0.482	79	72	34
75	2 ½	10	721 300 112	54.47	3	0.725	92	83	40
90		10	721 300 113	98.50	4	1.221	106	97	48
110		10	721 300 114	156.39	4	2.111	128	117	59

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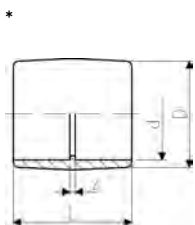


Coupling, PVC metric

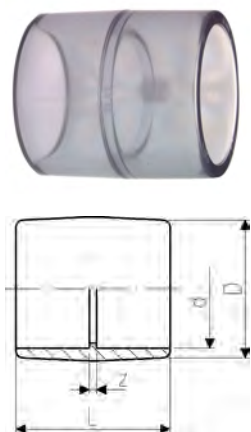
¹ Socket d355 and d400 fabricated from pipe

d (mm)	d (inch)	PN (bar)	Part No.	USD	SP	weight (kg)	z (mm)	D (mm)	L (mm)
	6	16	* 721 910 101	1.71	10	0.004	3	12	27
	8	16	* 721 910 102	1.71	10	0.005	3	14	27
	10	16	* 721 910 103	1.71	1	0.004	3	16	27
	12	16	* 721 910 104	1.71	1	0.004	3	19	27
	16	16	721 910 105	1.71	10	0.006	3	22	31
	20	16	721 910 106	1.71	10	0.011	3	26	35
	25	16	721 910 107	1.81	10	0.015	3	32	41
	32	16	721 910 108	2.24	10	0.026	3	39	47
	40	16	721 910 109	3.20	10	0.045	3	48	55
	50	16	721 910 110	4.16	10	0.064	3	58	65
	63	16	721 910 111	5.75	10	0.118	3	73	79

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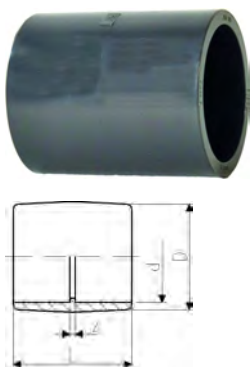


	d (mm)	d (inch)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	D (mm)	L (mm)
	75	2 1/2	16	721 910 112	12.79	10	0.188	4	87
	90		16	721 910 113	23.13	10	0.328	5	105
	110		16	721 910 114	37.09	6	0.554	6	128
	125		16	721 910 115	Call	3	0.825	7	142
	140	5	16	721 910 116	Call	2	1.118	7	162
	160		16	^ 721 910 117	81.12	2	1.540	8	183
	200		10	* 721 910 119	168.01	1	2.559	9	221
	225		10	* 721 910 120	174.94	2	3.519	10	253
	250		10	721 910 121	Call	1	5.394	16	284
	280		10	721 910 122	Call	1	8.312	16	321
	315		6	721 910 123	Call	1	10.388	16	356
1	355		6	721 910 124	Call	0	10.706	68	377
1	400		6	721 910 125	Call	0	11.326	73	425



Coupling, PVC transparent metric

d (mm)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	D (mm)	L (mm)
16	16	752 910 105	Call	10	0.009	3	23
20	16	752 910 106	Call	1	0.012	3	27
25	16	752 910 107	Call	1	0.016	3	32
32	16	752 910 108	Call	1	0.027	3	40
40	16	752 910 109	Call	1	0.061	3	52
50	16	752 910 110	Call	1	0.068	3	60
63	16	752 910 111	Call	5	0.115	3	75

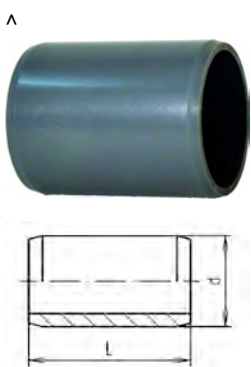


Outlet socket coupling PVC

Model:

- With solvent cement sockets metric and BS inch

d (mm)	d (inch)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	D (mm)	L (mm)
16	3/8	16	721 913 105	Call	10	0.010	5	23
20	1/2	16	721 913 106	Call	10	0.012	5	27
25	3/4	16	721 913 107	Call	10	0.020	5	33
32	1	16	721 913 108	Call	10	0.031	5	41
40	1 1/4	16	721 913 109	Call	10	0.054	5	51
50	1 1/2	16	721 913 110	Call	10	0.074	4	59
63	2	16	721 913 111	Call	5	0.155	5	75
90	3	16	721 913 113	Call	10	0.340	6	104
110	4	16	721 913 115	Call	5	0.488	4	128



Barrel Nipples, PVC metric

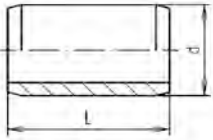
Model:

- 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)	Part No.	USD	weight (kg)	L (mm)
16		16	721 900 905	5.55	0.002	28
20		16	721 900 906	5.55	0.005	32
25		16	721 900 907	5.75	0.009	38

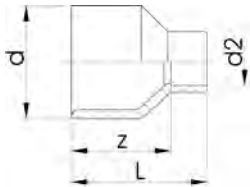
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d (mm)	d (inch)	PN (bar)	Part No.	USD	weight (kg)	L (mm)
32		16	721 900 908	6.18	0.015	44
40		16	721 900 909	6.29	0.027	52
50		16	721 900 910	6.72	0.048	62
63		16	721 900 911	7.89	0.092	76
75	2 ½	16	721 900 912	12.79	0.156	88
90		16	721 900 913	16.21	0.260	102
110		16	721 900 914	23.13	0.455	122
125		16	721 900 915	Call	0.673	138
140	5	16	721 900 916	Call	0.932	152
160		16	^ 721 900 917	64.93	1.565	192
200		10	* 721 900 919	75.27	1.779	212
225		10	* 721 900 920	91.58	2.566	238

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Reducer Bushing, PVC metric

Model:

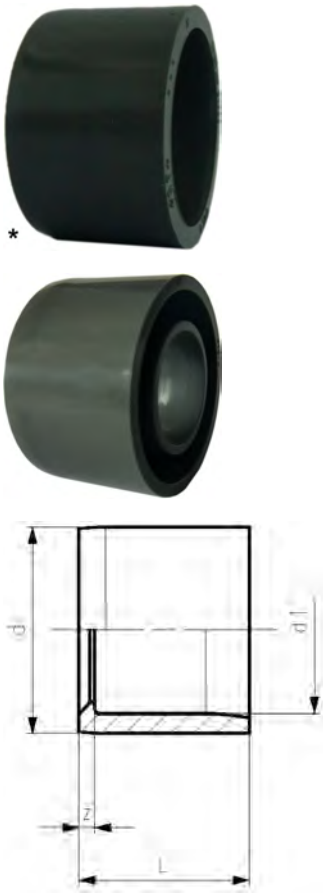
- With solvent cement spigot and socket metric

d (mm)	d2 (mm)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	L (mm)	
8	6	16	* 721 910 323	1.81	10	0.003	15	27
10	6	16	* 721 910 326	1.81	10	0.003	15	27
10	8	16	* 721 910 325	1.81	10	0.003	15	27
20	16	16	721 910 334	1.81	10	0.009	21	35
25	20	16	721 910 337	1.81	10	0.014	25	41
32	25	16	721 910 341	2.35	10	0.024	30	49
40	32	16	721 910 346	2.88	10	0.044	36	58
50	40	16	721 910 352	3.94	10	0.074	44	70
63	50	16	721 910 358	6.18	5	0.148	54	85
75	63	16	721 910 364	16.21	5	0.211	62	100
90	75	16	721 910 370	24.30	8	0.335	74	118
140	110	16	721 910 385	Call	2	0.808	111	172

Reducing bush short PVC-U metric

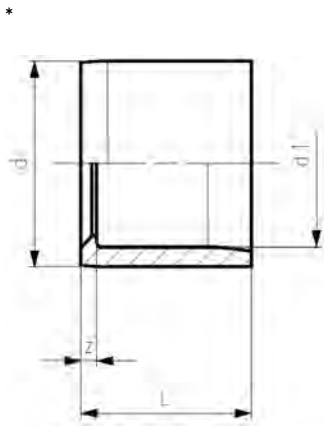
Model:

- With solvent cement spigot and socket metric



	d (mm)	d1 (mm)	PN (bar)	Part No.	USD	SP	weight (kg)	z (mm)	L (mm)
*	12	8	16	* 721 900 329	1.07	1	0.002	2	14
*	16	12	16	* 721 900 331	1.07	10	0.002	2	14
*	20	16	16	721 900 334	1.07	10	0.002	2	16
*	25	20	16	721 900 337	1.71	10	0.004	3	19
*	32	20	16	721 900 342	2.35	10	0.014	6	22
*	32	25	16	721 900 341	2.35	10	0.009	3	22
	40	20	16	721 900 348	2.56	10	0.021	10	26
	40	25	16	721 900 347	2.56	10	0.021	7	26
*	40	32	16	721 900 346	2.56	10	0.016	4	26
	50	20	16	721 900 355	3.20	10	0.037	15	31
	50	25	16	721 900 354	3.20	10	0.034	12	31
	50	32	16	721 900 353	3.20	10	0.036	9	31
*	50	40	16	721 900 352	3.20	10	0.030	5	31
	63	32	16	721 900 360	4.37	10	0.064	16	38
	63	40	16	721 900 359	4.37	10	0.067	12	38
*	63	50	16	721 900 358	4.37	10	0.058	7	38
	75	50	16	721 900 365	6.93	10	0.109	13	44
*	75	63	16	721 900 364	6.93	10	0.078	6	44
	90	50	16	721 900 372	12.79	10	0.181	20	51
	90	63	16	721 900 371	12.79	12	0.183	13	51
*	90	75	16	721 900 370	12.79	10	0.135	7	51
	110	50	16	721 900 379	18.55	5	0.316	30	61
	110	63	16	721 900 378	18.55	5	0.308	23	61
	110	75	16	721 900 377	18.55	20	0.295	17	61
*	110	90	16	721 900 376	18.55	5	0.259	10	61
	125	90	16	721 900 381	Call	5	0.465	18	69
*	125	110	16	721 900 380	Call	5	0.267	8	69
	140	90	16	721 900 386	Call	5	0.562	25	76
*	140	110	16	721 900 385	Call	5	0.605	15	76
*	140	125	16	721 900 384	Call	5	0.331	7	76
	160	90	16	^ 721 900 391	54.47	6	0.751	35	86
	160	110	16	^ 721 900 390	54.47	6	0.883	25	86
*	160	140	16	721 900 388	Call	5	0.551	10	86
	200	110	10	* 721 900 393	126.33	3	1.985	45	108
	200	125	10	721 900 325	Call	3	2.024	37	108
	200	140	10	721 900 394	Call	3	1.928	29	108
*	200	160	10	* 721 900 392	126.33	2	1.085	20	108
	225	110	10	* 721 900 397	132.09	4	2.544	57	120
	225	125	10	721 900 399	Call	4	2.563	49	120
	225	140	10	721 900 398	Call	4	2.609	41	120
	225	160	10	* 721 900 396	132.09	2	2.199	31	119
*	225	200	10	* 721 900 181	128.57	9	1.360	13	119
	250	125	10	721 900 326	Call	4	3.150	11	131
	250	140	10	721 900 300	Call	4	3.200	54	133
	250	160	10	721 900 301	Call	4	3.390	44	133
*	250	200	10	721 900 302	Call	4	3.198	24	133
*	250	225	10	721 900 303	Call	4	1.686	11	133
	280	140	10	721 900 307	Call	1	4.157	69	148
	280	160	10	721 900 308	Call	1	4.170	60	148
	280	200	10	721 900 304	Call	1	4.577	39	148
*	280	225	10	721 900 305	Call	1	4.409	27	146
*	280	250	10	721 900 306	Call	1	2.515	14	148
	315	160	6	721 900 313	Call	1	5.188	77	166
	315	200	6	721 900 309	Call	1	5.480	57	166
	315	225	6	721 900 310	Call	1	6.035	44	166
*	315	250	6	721 900 311	Call	1	6.481	32	166
*	315	280	6	721 900 312	Call	1	4.055	28	167
	355	315	6	721 900 315	Call	1	5.792	23	206

table continued on the next page



	d (mm)	d1 (mm)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	L (mm)
	400	250	6	721 900 319	Call	1 11.528	60	206
	400	280	6	721 900 320	Call	1 11.366	60	206
*	400	315	6	721 900 321	Call	1 13.006	42	206
*	400	355	6	721 900 322	Call	1 7.524	22	206



Cap, PVC metric

d (mm)	d (inch)	PN (bar)	Part No.	USD	SP weight (kg)	D (mm)	L (mm)
12		16	* 721 960 104	1.81	10 0.004	19	15
16		16	721 960 105	1.81	10 0.005	23	21
20		16	721 960 106	1.81	10 0.008	27	24
25		16	721 960 107	1.81	10 0.013	33	28
32		16	721 960 108	2.24	10 0.020	40	32
40		16	721 960 109	3.52	10 0.029	47	38
50		16	721 960 110	5.43	10 0.051	59	45
63		16	721 960 111	6.72	5 0.095	74	56
75	2 ½	16	721 960 112	17.38	5 0.152	87	65
90		16	721 960 113	21.96	5 0.269	105	77
110		16	^ 721 960 114	32.41	12 0.457	128	94
140	5	10	721 960 116	Call	10 1.036	164	92
160		10	* 721 960 117	85.71	2 1.534	188	130
200		10	721 960 119	Call	3 2.614	230	170
225		10	721 960 120	Call	2 3.320	257	185
280		10	721 960 122	Call	1 6.200	318	230
315		6	721 960 123	Call	1 8.500	356	255

Adapter Fittings



Adaptor fitting PVC-U metric - victaulic

Model:

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

d (mm)	d1 (mm)	d2 (inch)	PN (bar)	Part No.	USD	SP weight (kg)	L (mm)	z (mm)
50	40	1 ½	10	721 910 090	Call	50 0.150	71	45
63	50	2	10	721 910 091	Call	50 0.200	78	47
75	63	2 ½	10	721 910 092	Call	50 0.250	84	46

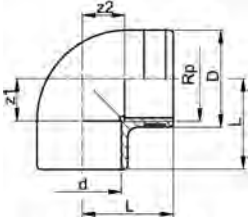


Elbow 90° PVC-U metric Rp

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 glues that are harmful to PVC

as long as stocks last



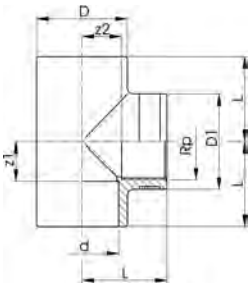
d (mm)	Rp (inch)	PN (bar)	Part No.	USD	SP weight (kg)	z1 (mm)	z2 (mm)	D (mm)	L (mm)	
12	¼	16	721 100 204	Call	10	0.010	7	7	20	19
16	⅜	16	721 100 205	Call	10	0.015	9	9	25	23
20	½	16	721 100 206	Call	10	0.023	13	11	30	27
25	¾	16	721 100 207	Call	10	0.035	16	15	35	33
32	1	16	721 100 208	Call	10	0.060	19	19	45	39
40	1 ¼	16	721 100 209	Call	10	0.122	23	27	55	50
50	1 ½	16	721 100 210	Call	5	0.187	27	36	62	58
63	2	16	721 100 211	Call	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 glues that are harmful to PVC



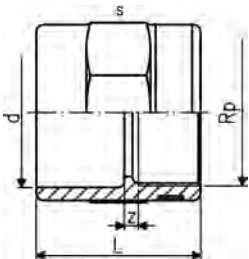
d (mm)	Rp (inch)	PN (bar)	Part No.	USD	SP weight (kg)	z1 (mm)	z2 (mm)	D (mm)	D1 (mm)	L (mm)	
12	¼	16	721 200 204	Call	10	0.015	7	7	17	20	19
16	⅜	16	721 200 205	Call	10	0.027	9	9	21	25	23
20	½	16	721 200 206	Call	10	0.029	11	13	26	30	29
25	¾	16	721 200 207	Call	10	0.043	14	15	32	35	33
32	1	16	721 200 208	Call	10	0.080	17	19	40	45	39
40	1 ¼	16	721 200 209	Call	10	0.134	23	26	47	55	49
50	1 ½	16	721 200 210	Call	5	0.212	27	36	59	59	59
63	2	16	721 200 211	Call	5	0.379	33	46	74	75	71



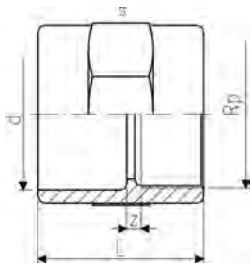
Adaptor socket PVC-U metric Rp

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 glues that are harmful to PVC



d (mm)	Rp (inch)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	L (mm)	s (mm)	
12	¼	16	721 910 204	Call	10	0.010	4	27	22
16	⅜	16	721 910 205	Call	10	0.016	5	31	27
20	½	16	721 910 206	Call	10	0.025	5	36	32
25	¾	16	721 910 207	Call	10	0.032	5	40	36
32	1	16	721 910 208	Call	10	0.057	5	45	46
40	1 ¼	16	721 910 209	Call	10	0.087	5	51	55
50	1 ½	16	721 910 210	Call	10	0.126	7	59	65
63	2	16	721 910 211	Call	5	0.206	7	69	80

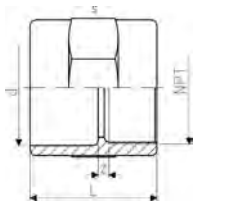


Adaptor socket PVC-U metric Rp

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 glues that are harmful to PVC

d (mm)	Rp (inch)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	L (mm)	s (mm)	
75	2 ½	10	721 916 012	Call	10	0.220	7	82	90
90	3	10	721 916 013	Call	5	0.365	9	94	110
110	4	10	721 916 014	Call	5	0.536	9	110	130

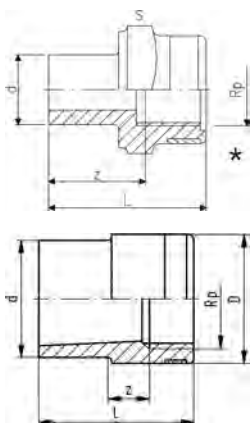


Female Adaptor, PVC metric - NPT

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 glues that are harmful to PVC

d (mm)	NPT (inch)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	L (mm)	s (mm)	
20	½	10	721 914 206	8.42	10	0.021	5	35	32
25	¾	10	721 914 207	9.07	10	0.028	6	40	36
32	1	10	721 914 208	12.79	10	0.049	6	45	46
40	1 ¼	10	721 914 209	13.86	10	0.076	6	51	55
50	1 ½	10	721 914 210	23.13	10	0.110	10	59	65
63	2	10	721 914 211	31.24	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 glues that are harmful to PVC

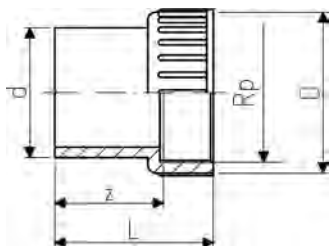
d (mm)	Rp (inch)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	D (mm)	L (mm)	s (mm)		
*	12	¼	16	721 910 404	Call	10	0.008	0	20	27	22
	20	¾	16	721 910 434	Call	10	0.014	7	25	35	
	25	½	16	721 910 437	Call	10	0.021	7	30	41	
	32	¾	16	721 910 441	Call	10	0.032	15	35	48	
	40	1	16	721 910 446	Call	10	0.058	20	45	56	
	50	1 ¼	16	721 910 452	Call	10	0.097	20	55	66	
	63	1 ½	16	721 910 458	Call	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 glues that are harmful to PVC



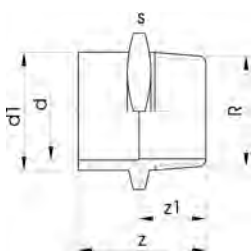
d (mm)	Rp (inch)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	D (mm)	L (mm)	
20	½	10	721 900 406	Call	10	0.012	22	28	37
25	¾	10	721 900 407	Call	10	0.018	25	34	41
32	1	10	721 900 408	Call	10	0.035	29	42	48
40	1 ¼	10	721 900 409	Call	10	0.063	34	52	56
50	1 ½	10	721 900 410	Call	10	0.097	40	62	61
63	2	10	721 900 411	Call	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 glues that are harmful to PVC



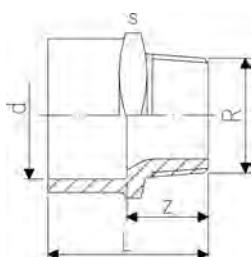
d (mm)	d1 (mm)	R (inch)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	z1 (mm)	s (mm)	
12	16	¾	16	721 910 555	Call	10	0.010	35	23	27
16	20	½	16	721 910 556	Call	10	0.016	42	28	32
20	25	¾	16	721 910 557	Call	10	0.023	47	31	36
25	32	1	16	721 910 558	Call	10	0.040	54	35	46
32	40	1 ¼	16	721 910 559	Call	10	0.061	60	38	55
40	50	1 ½	16	721 910 560	Call	10	0.094	66	40	65
50	63	2	16	721 910 561	Call	5	0.164	78	47	80



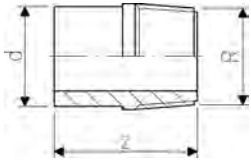
Adaptor bush equal PVC-U metric R

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 glues that are harmful to PVC



d (inch)	R (inch)	d (mm)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	L (mm)	s (mm)	
¾	¾	16	16	721 910 705	Call	10	0.011	20	34	27
½	½	20	16	721 910 706	Call	10	0.018	24	40	32
¾	¾	25	16	721 910 707	Call	10	0.025	25	44	36
1	1	32	16	721 910 708	Call	10	0.039	28	50	46
1 ¼	1 ¼	40	16	721 910 709	Call	10	0.061	31	57	55
1 ½	1 ½	50	16	721 910 710	Call	10	0.092	32	63	65
2	2	63	16	721 910 711	Call	5	0.161	38	76	80
2 ½	2 ½	75	10	721 910 712	Call	6	0.227	42	86	90
3	3	90	10	721 910 713	Call	5	0.389	46	97	110
4	4	110	10	721 910 714	Call	5	0.572	53	114	130

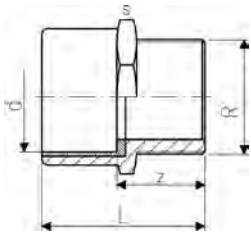


Adaptor nipple PVC-U metric R

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 glues that are harmful to PVC

d (mm)	R (inch)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	
16	3/8	10	721 913 505	Call	10	0.006	31
20	1/2	10	721 913 506	Call	10	0.010	35
25	3/4	10	721 913 507	Call	10	0.017	40
32	1	10	721 913 508	Call	10	0.026	46

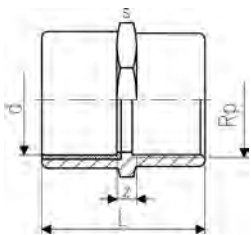
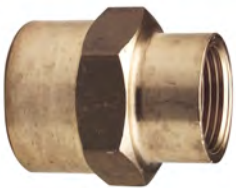


Adaptor socket brass/PVC-U metric R

Model:

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

d (mm)	R (inch)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	L (mm)	s (mm)	
40	1 1/4	16	720 910 709	Call	1	0.437	36	64	58
50	1 1/2	16	720 910 710	Call	1	0.671	38	72	70
63	2	16	720 910 711	Call	1	1.035	43	84	85

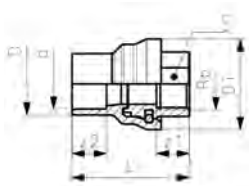


Adaptor socket brass/PVC-U metric Rp

Model:

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

d (mm)	Rp (mm)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	L (mm)	s (mm)	
40	1 1/4	16	720 910 209	Call	1	0.482	17	66	58
50	1 1/2	16	720 910 210	Call	1	0.737	19	74	70
63	2	16	720 910 211	Call	1	1.130	19	86	83

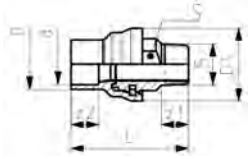


Adaptor Fitting PVC-U/brass Rp

Model:

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

d (mm)	D (mm)	PN (bar)	Rp (inch)	Part No.	USD	SP weight (kg)	z1 (mm)	z2 (mm)	D1 (mm)	L (mm)	S (mm)	
20	25	16	1/2	721 950 106	Call	10	0.098	17.0	16.5	40	54.5	25
25	32	16	3/4	721 950 107	Call	5	0.181	18.5	19.0	50	65.2	30
32	40	16	1	721 950 108	Call	5	0.270	21.5	22.5	59	76.5	36

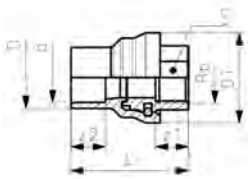


Adaptor Fitting PVC-U/brass R

Model:

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

d (mm)	D (mm)	PN (bar)	R (inch)	Part No.	USD	SP weight (kg)	z1 (mm)	z2 (mm)	D1 (mm)	L (mm)	S (mm)	
20	25	16	½	721 950 606	Call	10	0.129	17	17	40	70	25
25	32	16	¾	721 950 607	Call	5	0.232	19	19	50	83	30
32	40	16	1	721 950 608	Call	5	0.390	22	23	59	96	36



Adaptor Fitting PVC-U/stainless steel Rp

Model:

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

d (mm)	D (mm)	PN (bar)	Rp (inch)	Part No.	USD	SP weight (kg)	z1 (mm)	z2 (mm)	D1 (mm)	L (mm)	S (mm)	
20	25	16	½	721 940 106	Call	10	0.095	17	17	40	70	25
25	32	16	¾	721 940 107	Call	5	0.171	19	19	50	83	30
32	40	16	1	721 940 108	Call	5	0.262	22	23	59	96	36

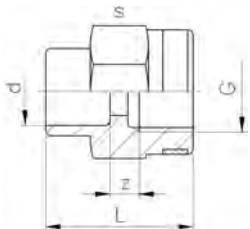


Adaptor Fitting PVC-U/stainless steel R

Model:

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

PN (bar)	D (mm)	R (inch)	d (mm)	Part No.	USD	SP weight (kg)	D1 (mm)	S (mm)	z2 (mm)	z1 (mm)	L (mm)
16	25	½	20	721 940 606	Call	10	0.120	40	25	17	70
16	32	¾	25	721 940 607	Call	5	0.213	50	30	19	83
16	40	1	32	721 940 608	Call	5	0.320	59	36	23	96



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 glues that are harmful to PVC
- Install with low mechanical stress and avoid large cyclic temperature changes

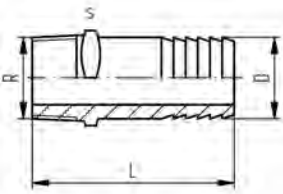
d (mm)	G (inch)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	L (mm)	s (mm)
12	¼	16	721 916 204	Call	10	0.010	4	27
16	½	16	721 916 206	Call	10	0.026	7	32



Hose connector PVC-U R

Model:

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



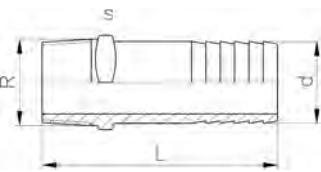
R (inch)	PN (bar)	Part No.	USD	SP weight (kg)	D (mm)	L (mm)	s (mm)	
¼	10	721 960 704	Call	10	0.003	12	59	14
¾	10	721 960 705	Call	10	0.006	16	67	19
½	10	721 960 706	Call	10	0.019	20	86	22
¾	10	721 960 707	Call	10	0.026	25	92	27
1	10	721 960 708	Call	5	0.048	30	103	36
1 ¼	10	721 960 709	Call	5	0.079	40	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 glues that are harmful to PVC



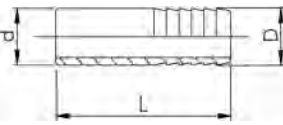
R (inch)	Part No.	USD	SP weight (kg)	s (mm)	d (mm)	L (mm)	
½	721 961 706	Call	10	0.012	22	14	70
¾	721 961 707	Call	10	0.021	27	20	80
1	721 961 708	Call	5	0.042	36	27	90



Hose Connector, PVC metric

Model:

- With solvent cement spigot metric and parallel hose connection



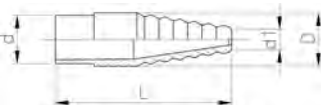
d (mm)	PN (bar)	Part No.	USD	SP weight (kg)	D (mm)	L (mm)	
10	16	* 721 960 403	1.71	10	0.002	8	47
12	16	* 721 960 404	1.81	10	0.003	12	51
16	16	721 960 405	2.24	10	0.008	16	57
20	16	721 960 406	2.35	10	0.016	20	73
25	16	721 960 407	2.88	10	0.021	25	79
32	16	721 960 408	3.52	10	0.035	30	89
40	16	721 960 409	4.59	5	0.060	40	100
50	16	721 960 410	8.21	5	0.112	50	105
63	16	721 960 411	10.44	5	0.180	60	120
32	16	721 960 508	Call	10	0.035	32	89



Hose connector PVC-U metric

Model:

- With solvent cement spigot metric and tapered hose connection



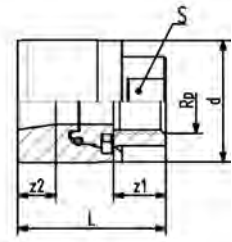
d (mm)	PN (bar)	Part No.	USD	SP weight (kg)	d1 (mm)	D (mm)	L (mm)	
10	16	721 960 303	Call	10	0.004	6	12	51
12	16	721 960 304	Call	10	0.004	6	12	51
16	16	721 960 305	Call	10	0.007	8	16	57
20	16	721 960 306	Call	10	0.016	11	22	73



Adaptor fitting PVC-U/brass

Model:

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



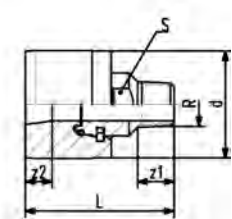
d (mm)	Rp (inch)	PN (bar)	Part No.	USD	SP weight (kg)	z1 (mm)	z2 (mm)	L (mm)	S (mm)	
40	½	10	721 950 131	Call	10	0.279	17.0	12.4	48.2	25
50	½	10	721 950 132	Call	5	0.355	17.0	12.5	54.2	25
50	¾	10	721 950 133	Call	10	0.362	18.5	13.0	54.9	30
63	½	10	721 950 134	Call	10	0.526	17.0	7.1	66.2	25
63	¾	10	721 950 135	Call	5	0.531	18.5	13.0	66.9	30
63	1	10	721 950 136	Call	5	0.542	21.5	18.9	70.7	36



Adaptor fitting PVC-U/brass

Model:

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



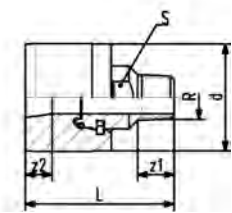
d (mm)	R (inch)	PN (bar)	Part No.	USD	SP weight (kg)	z1 (mm)	z2 (mm)	L (mm)	S (mm)	
40	½	10	721 950 631	Call	10	0.352	17.0	12.4	63.2	25
50	½	10	721 950 632	Call	10	0.438	17.0	12.5	69.2	25
50	¾	10	721 950 633	Call	10	0.442	18.5	13.0	72.9	30
63	½	10	721 950 634	Call	10	0.498	17.0	7.1	81.2	25
63	¾	10	721 950 635	Call	10	0.512	18.5	13.0	84.9	30
63	1	10	721 950 636	Call	10	0.521	21.5	18.9	89.7	36



Adaptor fitting PVC-U/stainless steel

Model:

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



d (mm)	R (inch)	PN (bar)	Part No.	USD	SP weight (kg)	z1 (mm)	z2 (mm)	L (mm)	S (mm)	
40	½	10	721 940 631	Call	10	0.335	17.0	12.4	63.2	25
50	½	10	721 940 632	Call	10	0.402	17.0	12.5	69.2	25
50	¾	10	721 940 633	Call	10	0.414	18.5	13.0	72.9	30
63	½	10	721 940 634	Call	10	0.521	17.0	7.1	81.2	25
63	¾	10	721 940 635	Call	10	0.533	18.5	13.0	84.9	30
63	1	10	721 940 636	Call	10	0.542	21.5	18.9	89.7	36

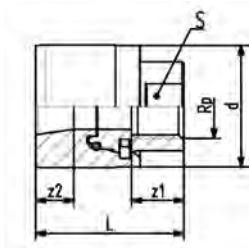
Adaptor fitting PVC-U/stainless steel



Model:

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

d	Rp	PN	Part No.	USD	SP weight	z1	z2	L	S	
(mm)	(inch)	(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	
40	½	10	721 940 131	Call	10	0.267	17.0	12.4	63.2	25
50	½	10	721 940 132	Call	10	0.345	17.0	12.5	69.2	25
50	¾	10	721 940 133	Call	10	0.352	18.5	13.0	72.9	30
63	½	10	721 940 134	Call	10	0.432	17.0	7.1	81.2	25
63	¾	10	721 940 135	Call	10	0.441	18.5	13.0	84.9	30
63	1	10	721 940 136	Call	10	0.453	21.5	18.9	89.7	36



Threaded Fittings

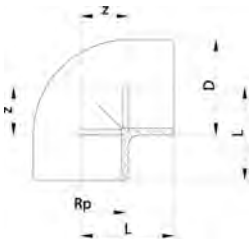


Elbow 90° PVC-U Rp

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 glues that are harmful to PVC

Rp	PN	Part No.	USD	SP weight	z	D	L	
(inch)	(bar)			(kg)	(mm)	(mm)	(mm)	
¾	10	721 101 605	Call	10	0.013	9	23	23
½	10	721 101 606	Call	10	0.017	12	27	27
¾	10	721 101 607	Call	10	0.029	15	33	33
1	10	721 101 608	Call	10	0.042	19	39	39
1 ¼	10	721 101 609	Call	10	0.070	27	48	49
1 ½	10	721 101 610	Call	5	0.178	35	61	59
2	10	721 101 611	Call	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 glues that are harmful to PVC

Rp	PN	Part No.	USD	SP weight	z	D	L	
(inch)	(bar)			(kg)	(mm)	(mm)	(mm)	
¾	10	721 201 605	Call	10	0.016	9	23	23
½	10	721 201 606	Call	10	0.027	12	28	27
¾	10	721 201 607	Call	10	0.039	15	33	33
1	10	721 201 608	Call	5	0.072	19	41	39
1 ¼	10	721 201 609	Call	100	0.146	27	50	49
1 ½	10	721 201 610	Call	10	0.267	36	62	60
2	10	721 201 611	Call	10	0.485	44	77	72

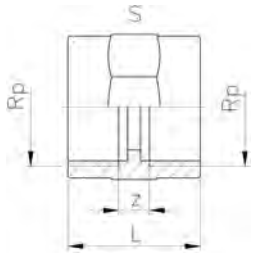




Socket PVC-U Rp

Model:

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



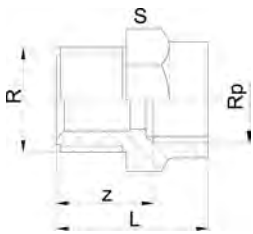
Rp (inch)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	L (mm)	s (mm)	
¼	10	721 910 604	Call	10	0.010	7	27	22
¾	10	721 910 605	Call	10	0.015	7	29	27
½	10	721 910 606	Call	10	0.024	9	35	32
¾	10	721 910 607	Call	10	0.029	9	39	36
1	10	721 910 608	Call	10	0.053	11	45	46
1 ¼	10	721 910 609	Call	10	0.076	11	49	55
1 ½	10	721 910 610	Call	10	0.106	11	49	65
2	10	721 910 611	Call	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 glues that are harmful to PVC



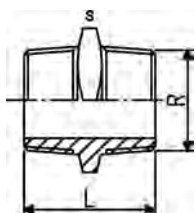
R (inch)	Rp (inch)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	L (mm)	s (mm)	
½	¾	10	721 910 834	Call	10	0.014	25	36	27
¾	½	10	721 910 837	Call	10	0.021	25	39	32
1	½	10	721 910 842	Call	10	0.029	31	45	32
1	¾	10	721 910 841	Call	10	0.031	29	45	36
1 ¼	1	10	721 910 846	Call	10	0.050	32	50	46
1 ½	1 ¼	10	721 910 852	Call	10	0.065	35	55	55
2	1 ½	10	721 910 858	Call	5	0.127	45	65	65



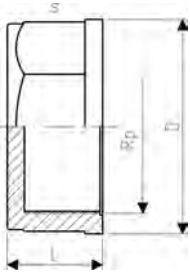
Threaded nipple R PVC-U

Model:

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



R (inch)	PN (bar)	Type	Part No.	USD	SP weight (kg)	L (mm)	s (mm)	
¾	10	A	721 911 905	Call	10	0.007	37	19
½	10	A	721 911 906	Call	10	0.012	45	22
¾	10	A	721 911 907	Call	10	0.019	49	27
1	10	A	721 911 908	Call	10	0.034	57	36
1 ¼	10	A	721 911 909	Call	10	0.052	62	46
1 ½	10	A	721 911 910	Call	10	0.070	67	50
2	10	A	721 911 911	Call	10	0.126	76	65

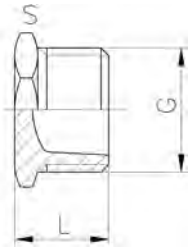


Cap PVC-U Rp

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 glues that are harmful to PVC

Rp (inch)	PN (bar)	Part No.	USD	SP weight (kg)	D (mm)	L (mm)	s (mm)	
3/8	10	721 960 605	Call	10	0.012	31	19	27
1/2	10	721 960 606	Call	10	0.018	37	21	32
3/4	10	721 960 607	Call	10	0.024	42	24	36
1	10	721 960 608	Call	10	0.040	50	26	46
1 1/4	10	721 960 609	Call	10	0.060	60	29	55
1 1/2	10	721 960 610	Call	10	0.072	65	31	60
2	10	721 960 611	Call	5	0.127	81	36	75

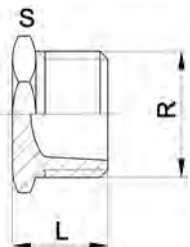


Plug PVC-U G

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 glues that are harmful to PVC

G (inch)	PN (bar)	Part No.	USD	SP weight (kg)	L (mm)	s (mm)	
3/8	10	721 960 905	Call	10	0.005	21	22
1/2	10	721 960 906	Call	10	0.010	25	27
3/4	10	721 960 907	Call	10	0.018	29	36
1	10	721 960 908	Call	10	0.029	32	41
1 1/4	10	721 960 909	Call	10	0.048	36	50
1 1/2	10	721 960 910	Call	10	0.070	37	60
2	10	721 960 911	Call	5	0.120	42	75



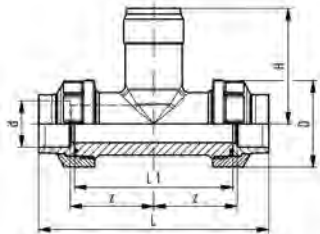
Plug PVC-U R

Model:

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

R (inch)	PN (bar)	Part No.	USD	SP weight (kg)	L (mm)	s (mm)	
3/8	10	721 961 905	Call	10	0.006	21	22
1/2	10	721 961 906	Call	10	0.011	25	27
3/4	10	721 961 907	Call	10	0.020	29	36
1	10	721 961 908	Call	10	0.030	32	41
1 1/4	10	721 961 909	Call	10	0.048	36	50
1 1/2	10	721 961 910	Call	10	0.071	37	60
2	10	721 961 911	Call	5	0.119	42	75

Installation Fittings



Installation fitting type 310 PVC-U For socket systems metric

Range of use:

- Compatible Signet flow sensors: models 2551, 2537, 515, 8510, 2536, 8512
- Compatible Signet pH/ORP sensors: models 2724, 2725, 2726

Attention:

- Sensor length depends on installation fitting

Model:

- Threaded outlet 1 ¼" NPSM
- Union end with solvent cement socket PVC-U

Type	d (mm)	DN (mm)	PN (bar)	EPDM Part No.	USD	SP	weight (kg)
PVMT005	20	15	16	721 310 006	Call	1	0.181
PVMT007	25	20	16	721 310 007	Call	1	0.226
PVMT010	32	25	16	721 310 008	Call	1	0.303
PVMT012	40	32	16	721 310 009	Call	1	0.419
PVMT015	50	40	16	721 310 010	Call	1	0.568
PVMT020	63	50	16	721 310 011	Call	1	0.879

FKM Part No.	USD	SP	weight (kg)	L1 (mm)	D (mm)	H (mm)	L (mm)	Sensor Type	z (mm)
721 310 036	Call	1	0.181	90	43	76	128	flow X0, pH XX	48
721 310 037	Call	1	0.226	100	51	78	144	flow X0, pH XX	53
721 310 038	Call	1	0.304	110	58	81	160	flow X0, pH XX	58
721 310 039	Call	1	0.479	110	72	85	168	flow X0, pH XX	58
721 310 040	Call	1	0.571	120	83	89	188	flow X0, pH XX	63
721 310 041	Call	1	0.881	130	100	95	212	flow X0, pH XX	68



Installation fitting type 312
PVC-U metric glue on saddle

Model:

- Top saddle for solvent cement bonding
- Saddle with threaded outlet 1 ¼" NPSM

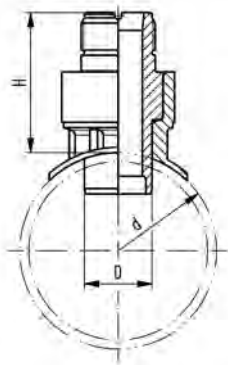
Range of use:

- Compatible Signet flow sensors: models 2551, 2537, 515, 8510, 2536, 8512

Attention:

- Sensor length depends on installation fitting

PN (bar)	DN (mm)	d (mm)	Part No.	USD	SP	weight (kg)	D (mm)	Sensor Type	H (mm)
10	65	75	721 312 012	Call	1	0.220	38	flow X1	89
10	80	90	721 312 013	Call	1	0.228	38	flow X1	89
10	100	110	721 312 014	Call	1	0.225	38	flow X1	89
10	100	125	721 312 015	Call	1	0.218	38	flow X1	81
10	125	140	721 312 016	Call	1	0.213	38	flow X1	79
10	150	160	721 312 017	Call	1	0.217	38	flow X1	76
10	200	200	721 312 019	Call	1	0.192	38	flow X1	69
10	200	225	721 312 020	Call	1	0.297	38	flow X2	141
10	250	250	721 312 021	Call	1	0.295	38	flow X2	137
10	300	315	721 312 023	Call	1	0.290	38	flow X2	127



Installation fitting type 312
PVC-U metric clamp on saddle

Model:

- Saddle with threaded outlet 1 ¼" NPSM
- Top saddle for solvent cement bonding
- Seal: Lip seal of EPDM

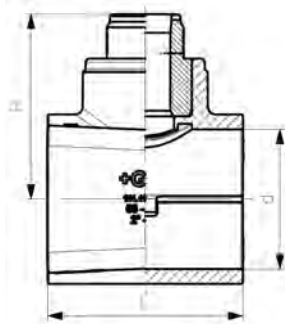
Range of use:

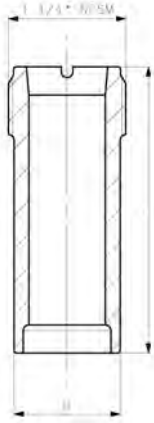
- Compatible Signet flow sensors: models 2551, 2537, 515, 8510, 2536, 8512
- Compatible Signet pH/ORP sensors: models 2724, 2725, 2726

Attention:

- Sensor length depends on installation fitting

DN (mm)	PN	d (mm)	Part No.	USD	SP	weight (kg)	Sensor Type	H (mm)	L (mm)
65	16	75	198 150 538	Call	1	0.780	flow X0, pH XX	99	105
80	16	90	198 150 539	Call	1	0.835	flow X0, pH XX	105	105
100	16	110	198 150 540	Call	1	0.885	flow X0, pH XX	114	105
150	16	160	198 150 543	Call	1	1.375	flow X1	157	120
200	16	225	198 150 545	Call	1	1.700	flow X1	184	120





Installation fitting type 314 PVC-U metric

Model:

- Threaded outlet 1 ¼" NPSM
- for conventional hot gas back welding according to DVS 2207 part 3

Attention:

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

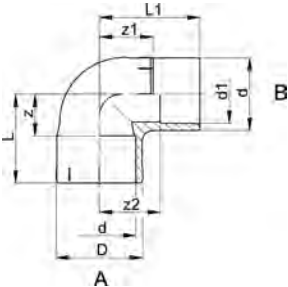
Range of use:

- Compatible Signet flow sensors: models 2551, 2537, 515, 8510, 2536, 8512
- Compatible Signet pH/ORP sensors: models 2724, 2725, 2726

DN	d (mm)	PN (bar)	Part No.	USD	SP weight (kg)	Sensor Type	D (mm)	L (mm)
65 - 150	75 - 180	-	721 314 000	Call	1 0.053	flow X0, pH XX	38	68
200 - 350	200 - 355	-	721 314 001	Call	1 0.078	flow X1	38	102
350 - 600	400 - 630	-	721 314 002	Call	1 0.153	flow X2	38	178

PRO-FIT

Pipe fittings for solvent cement jointing



PRO-FIT elbow 90° PVC-U metric

Model:

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

d (mm)	d1 (mm)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	z1 (mm)	z2 (mm)	D (mm)	L (mm)	L1 (mm)
20	16	16	721 100 306	Call	10 0.011	11	16	18	25	27	32
25	20	16	721 100 307	Call	10 0.020	14	18	21	31	33	37
32	25	16	721 100 308	Call	10 0.038	17	22	25	38	39	44
40	32	16	721 100 309	Call	10 0.069	23	30	34	47	49	56
50	40	16	721 100 310	Call	10 0.122	26	36	41	58	57	67
63	50	16	721 100 311	Call	10 0.237	33	45	52	73	71	83

PRO-FIT elbow 45° PVC-U metric

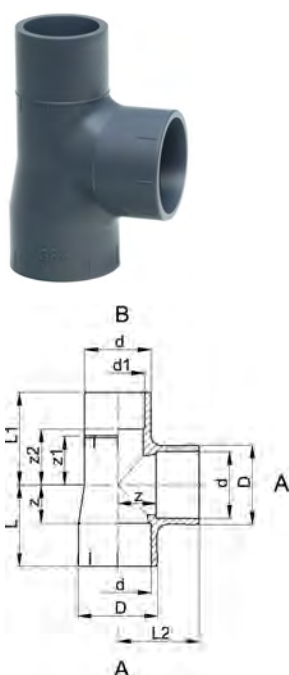


Model:

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

d (mm)	d1 (mm)	PN (bar)	Part No.	USD	SP	weight (kg)	z (mm)	z1 (mm)	z2 (mm)	D (mm)	L (mm)	L1 (mm)
20	16	16	721 150 306	Call	10	0.010	5	9	11	25	21	25
25	20	16	721 150 307	Call	10	0.015	6	11	14	31	25	30
32	25	16	721 150 308	Call	10	0.027	8	13	16	38	30	35
40	32	16	721 150 309	Call	5	0.053	10	17	21	47	36	43
50	40	16	721 150 310	Call	5	0.090	12	18	23	58	43	49
63	50	16	721 150 311	Call	5	0.175	14	23	30	73	52	61

PRO-FIT tee 90° equal PVC-U metric

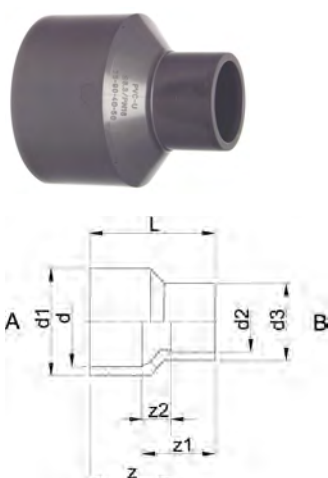


Model:

- 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)	Part No.	USD	SP	weight (kg)	z (mm)	z1 (mm)	z2 (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)
20	16	16	721 200 306	Call	10	0.017	11	17	19	25	27	33	27
25	20	16	721 200 307	Call	10	0.022	14	19	22	31	33	38	33
32	25	16	721 200 308	Call	10	0.051	17	24	27	38	39	46	39
40	32	16	721 200 309	Call	10	0.098	23	30	34	47	47	56	49
50	40	16	721 200 310	Call	10	0.164	26	36	41	58	57	67	57
63	50	16	721 200 311	Call	10	0.329	33	45	52	73	71	83	71

PRO-FIT reducing bush PVC-U metric

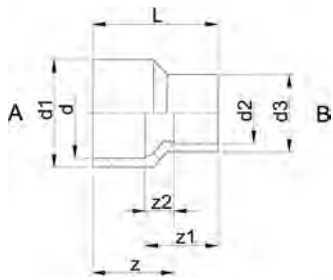


Model:

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

d (mm)	d1 (mm)	d3 (mm)	PN (bar)	d2 (mm)	Part No.	USD	SP	weight (kg)	z (mm)	z1 (mm)	z2 (mm)	L (mm)
10	14	12	16	8	721 910 903	Call	10	0.003	15	15	3	27
12	16	12	16	8	721 910 905	Call	10	0.004	18	18	6	30
12	16	16	16	10	721 910 906	Call	10	0.004	18	18	6	30
16	20	16	16	10	721 910 908	Call	10	0.003	21	19	7	33
16	20	16	16	12	721 910 909	Call	10	0.004	21	19	7	33
20	25	16	16	12	721 910 910	Call	10	0.008	25	21	9	37
20	25	20	16	16	721 910 911	Call	10	0.008	25	23	9	39
25	32	16	16	12	721 910 912	Call	10	0.014	30	23	11	42
25	32	20	16	16	721 910 913	Call	10	0.015	30	26	12	44
25	32	25	16	20	721 910 914	Call	10	0.017	30	27	11	46
32	40	20	16	16	721 910 915	Call	10	0.025	36	28	14	50
32	40	25	16	20	721 910 916	Call	10	0.026	36	30	14	52
32	40	32	16	25	721 910 917	Call	10	0.031	36	33	14	55

table continued on the next page



d	d1	d3	PN	d2	Part No.	USD	SP weight	z	z1	z2	L	
(mm)	(mm)	(mm)	(bar)	(mm)			(kg)	(mm)	(mm)	(mm)	(mm)	
40	50	25	16	20	721 910 918	Call	10	0.045	44	34	18	60
40	50	32	16	25	721 910 919	Call	10	0.052	44	37	18	63
40	50	40	16	32	721 910 920	Call	10	0.058	44	40	18	66
50	63	32	16	25	721 910 921	Call	5	0.092	54	42	23	73
50	63	40	16	32	721 910 922	Call	5	0.098	54	45	23	76
50	63	50	16	40	721 910 923	Call	5	0.111	54	49	23	80
63	75	40	16	32	721 910 924	Call	5	0.127	62	46	24	84
63	75	50	16	40	721 910 925	Call	5	0.139	62	50	24	88
63	75	63	16	50	721 910 926	Call	1	0.167	62	55	24	93
75	90	50	16	40	721 910 927	Call	10	0.224	74	56	30	100
75	90	63	16	50	721 910 928	Call	10	0.253	74	61	30	105
75	90	75	16	63	721 910 929	Call	10	0.265	74	68	30	112

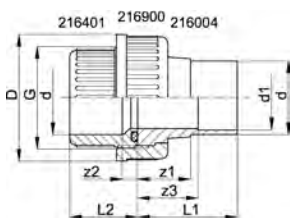
Unions for solvent cement jointing



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



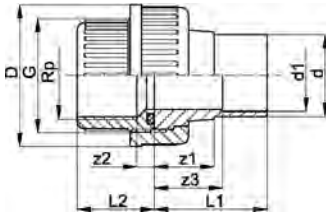
d	d1	PN	EPDM	USD	SP weight	FKM	USD	SP weight			
(mm)	(mm)	(bar)	Part No.		(kg)	Part No.		(kg)			
*	16	12	16	721 510 305	Call	10	0.029	721 510 330	Call	10	0.029
*	20	16	16	721 510 306	Call	10	0.046	721 510 331	Call	10	0.044
*	25	20	16	721 510 307	Call	10	0.073	721 510 332	Call	10	0.073
*	32	25	16	721 510 308	Call	10	0.097	721 510 333	Call	10	0.095
	40	32	16	721 510 309	Call	10	0.169	721 510 334	Call	10	0.171
	50	40	16	721 510 310	Call	10	0.250	721 510 335	Call	10	0.250
	63	50	16	721 510 311	Call	5	0.437	721 510 336	Call	10	0.449

d	G	z1	z2	z3	D	L1	L2	
(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
*	16	3/4	22	10	24	35	36	24
*	20	1	24	10	26	43	40	26
*	25	1 1/4	25	10	28	51	44	29
*	32	1 1/2	27	10	30	58	49	33
	40	2	31	12	35	74	57	39
	50	2 1/4	35	14	40	83	66	46
	63	2 3/4	39	18	46	100	77	58

Adaptor unions



*



PRO-FIT adaptor union PVC-U metric Rp

Model:

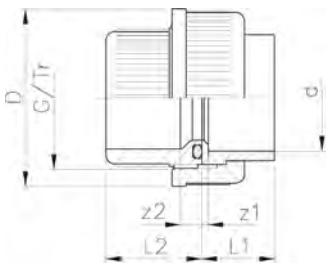
- Union End: Solvent cemented spigot in combination with reducing socket metric
- Union Bush: Threaded socket with parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 005-011
- Gasket: O-ring FKM code no. 749 410 005-011 (to be ordered separately)
- Connection to plastic thread only
- Do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

	d (mm)	d1 (mm)	Rp (inch)	PN (bar)	EPDM Part No.	USD	SP	weight (kg)
*	16	12	3/8	10	721 510 405	Call	10	0.032
*	20	16	1/2	10	721 510 406	Call	10	0.046
*	25	20	3/4	10	721 510 407	Call	10	0.079
*	32	25	1	10	721 510 408	Call	10	0.116
	40	32	1 1/4	10	721 510 409	Call	10	0.192
	50	40	1 1/2	10	721 510 410	Call	10	0.263
	63	50	2	10	721 510 411	Call	10	0.496

	d (mm)	G (inch)	z1 (mm)	z2 (mm)	z3 (mm)	D (mm)	L1 (mm)	L2 (mm)
*	16	3/4	22	13	24	35	36	24
*	20	1	24	13	26	43	40	26
*	25	1 1/4	25	14	28	51	44	29
*	32	1 1/2	27	15	30	58	49	32
	40	2	31	19	35	74	57	38
	50	2 1/4	35	26	40	83	66	45
	63	2 3/4	39	33	46	100	77	56

Unions

Unions for solvent cement jointing



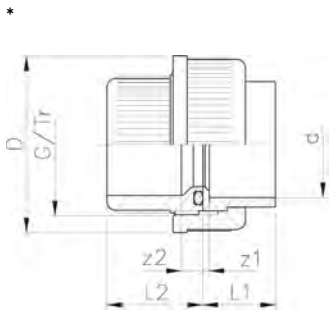
Union for solvent cement jointing, PVC metric

Model:

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

d (mm)	d1 (inch)	PN (bar)	EPDM Part No.	USD	SP	weight (kg)	FKM Part No.	USD	SP	weight (kg)
10		16	* 721 510 103	9.27	10	0.021	* 721 510 128	10.44	10	0.020
12		16	* 721 510 104	9.27	10	0.020	* 721 510 129	10.44	10	0.019
16		16	721 510 105	9.27	10	0.025	721 510 130	11.62	10	0.025
20		16	721 510 106	10.44	10	0.041	721 510 131	13.86	10	0.042
25		16	721 510 107	11.62	10	0.058	721 510 132	16.21	10	0.058
32		16	721 510 108	15.03	10	0.083	721 510 133	19.73	10	0.084
40		16	721 510 109	18.55	10	0.147	721 510 134	27.82	10	0.152
50		16	721 510 110	26.65	5	0.203	721 510 135	38.27	2	0.207
63		16	721 510 111	34.76	5	0.356	721 510 136	47.55	5	0.361
75	2 1/2	10	721 510 112	76.43	2	0.614	721 510 137	99.68	2	0.621
90		10	721 510 313	90.40	2	0.920	721 510 338	113.54	2	0.929
110		10	721 510 114	111.19	1	1.434	721 510 139	163.32	1	1.492

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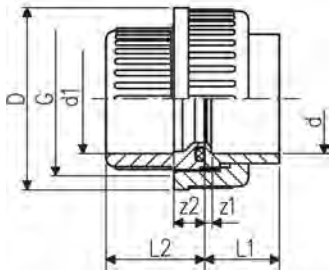
d	z1	z2	D	L1	L2	G/Tr
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)
10	3	10	31	15	22	5/8
12	3	10	31	15	22	5/8
16	3	10	35	17	24	3/4
20	3	10	43	19	26	1
25	3	10	51	22	29	1 1/4
32	3	10	58	25	33	1 1/2
40	3	12	72	29	39	2
50	3	14	83	34	46	2 1/4
63	3	18	100	41	58	2 3/4
75	3	18	135	47	62	Tr108x5
90	5	18	158	56	69	Tr128x5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



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)



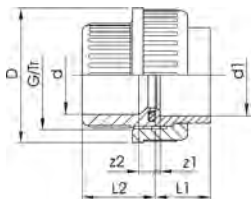
PN	d	d1	Part No.	USD	SP weight	G	z1	z2	D	L1	L2	
(bar)	(mm)	(inch)			(kg)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	
15	16	3/8	721 513 105	Call	10	0.025	3/8	3	8	35	17	24
15	20	1/2	721 513 106	Call	10	0.040	1	3	9	43	19	26
15	25	3/4	721 513 107	Call	10	0.065	1 1/4	3	9	51	22	29
15	32	1	721 513 108	Call	10	0.090	1 1/2	3	9	58	25	33
15	40	1 1/4	721 513 109	Call	10	0.155	2	3	10	72	29	39
15	50	1 1/2	721 513 110	Call	5	0.200	2 1/4	3	10	83	34	46
15	63	2	721 513 111	Call	5	0.341	2 3/4	3	10	100	41	58



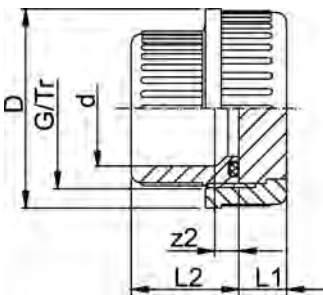
Union for solvent cement jointing, PVC metric - ASTM Socket

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	d1	PN	Part No.	USD	SP weight	G	z1	z2	D	L1	L2	
(mm)	(inch)	(bar)			(kg)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	
16	3/8	16	721 514 105	11.62	10	0.022	3/8	3	10	35	22	24
20	1/2	16	721 514 106	11.62	10	0.042	1	3	10	43	25	26
25	3/4	16	721 514 107	13.86	10	0.065	1 1/4	3	10	51	28	29
32	1	16	721 514 108	18.55	10	0.103	1 1/2	3	10	58	32	33
40	1 1/4	16	721 514 109	21.96	10	0.174	2	3	12	72	35	39
50	1 1/2	16	721 514 110	31.24	5	0.239	2 1/4	3	14	83	38	46
63	2	16	721 514 111	40.51	5	0.356	2 3/4	3	18	100	41	58



Union with union end blank PVC-U metric

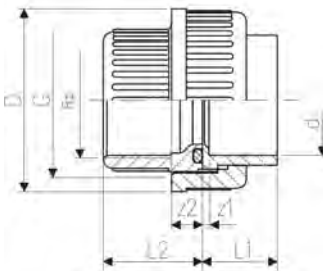
Model:

- Union Bush: Solvent socket metric
- Joining face: with O-ring groove

d (mm)	PN (bar)	EPDM Part No.	USD	SP weight (kg)	FKM Part No.	USD	SP weight (kg)
10	16	721 510 003	Call	10	721 510 028	Call	10
12	16	721 510 004	Call	10	721 510 029	Call	10
16	16	721 510 005	Call	10	721 510 030	Call	10
20	16	721 510 006	Call	10	721 510 031	Call	10
25	16	721 510 007	Call	10	721 510 032	Call	10
32	16	721 510 008	Call	10	721 510 033	Call	10
40	16	721 510 009	Call	10	721 510 034	Call	10
50	16	721 510 010	Call	5	721 510 035	Call	5
63	16	721 510 011	Call	10	721 510 036	Call	10
75	10	721 510 012	Call	2	721 510 037	Call	2
90	10	721 510 213	Call	2	721 510 238	Call	2
110	10	721 510 014	Call	1	721 510 039	Call	1

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

Adaptor Unions



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 glues that are harmful to PVC

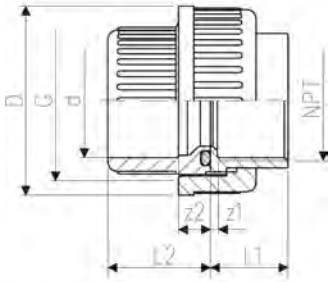
d (mm)	Rp (inch)	PN (bar)	EPDM Part No.	USD	SP weight (kg)	G (inch)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)
12	1/4	10	721 510 204	Call	10	0.019	3	12	31	15	22
16	3/8	10	721 510 205	Call	10	0.020	3	13	35	17	24
20	1/2	10	721 510 206	Call	10	0.040	1	3	43	19	26
25	3/4	10	721 510 207	Call	10	0.057	1 1/4	3	51	22	29
32	1	10	721 510 208	Call	10	0.084	1 1/2	3	58	25	33
40	1 1/4	10	721 510 209	Call	10	0.147	2	3	72	29	39
50	1 1/2	10	721 510 210	Call	2	0.218	2 1/4	3	83	34	46
63	2	10	721 510 211	Call	2	0.383	2 3/4	3	100	41	58



Adaptor Union, PVC metric - ASTM 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 glues that are harmful to PVC



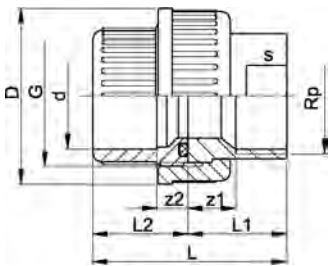
d	NPT	PN	EPDM	USD	SP weight	G	z1	z2	D	L1	L2	
(mm)	(inch)	(bar)	Part No.		(kg)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	
16	¾	10	721 514 205	15.03	10	0.026	¾	4	10	35	17	24
20	½	10	721 514 206	16.21	10	0.042	1	2	10	43	19	26
25	¾	10	721 514 207	17.38	10	0.068	1 ¼	4	10	51	22	29
32	1	10	721 514 208	23.13	10	0.093	1 ½	4	10	58	25	33
40	1 ¼	10	721 514 209	25.48	2	0.150	2	6	12	72	29	39
50	1 ½	10	721 514 210	37.09	2	0.228	2 ¼	11	14	83	34	46
63	2	10	721 514 211	49.78	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



Rp	d	PN	EPDM	USD	SP weight	FKM	USD	SP weight		
(inch)	(mm)	(bar)	Part No.		(kg)	Part No.		(kg)		
¾	16	16	721 540 205	Call	10	0.053	721 540 230	Call	0	0.053
½	20	16	721 540 206	Call	10	0.096	721 540 231	Call	0	0.096
¾	25	16	721 540 207	Call	5	0.154	721 540 232	Call	0	0.134
1	32	16	721 540 208	Call	5	0.212	721 540 233	Call	0	0.212
1 ¼	40	16	721 540 209	Call	2	0.356	721 540 234	Call	0	0.343
1 ½	50	16	721 540 210	Call	2	0.455	721 540 235	Call	0	0.455
2	63	16	721 540 211	Call	2	0.730	721 540 236	Call	0	0.721

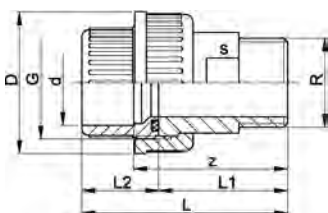
G	z1	z2	D	L	L1	L2	s
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
¾	9	10	35	43	19	24	19
1	11	10	43	50	24	26	24
1 ¼	11	10	51	55	26	29	29
1 ½	12	10	58	61	29	33	36
2	14	12	72	71	33	39	45
2 ¼	15	14	83	79	34	46	54
2 ¾	15	18	100	95	39	58	63



Adaptor union PVC-U/stainless steel metric R

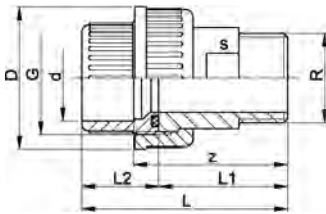
Model:

- 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	R	PN	EPDM	USD	SP weight	FKM	USD	SP weight		
(mm)	(inch)	(bar)	Part No.		(kg)	Part No.		(kg)		
16	¾	16	721 540 705	Call	10	0.073	721 540 730	Call	0	0.073
20	½	16	721 540 706	Call	10	0.126	721 540 731	Call	0	0.126
25	¾	16	721 540 707	Call	10	0.174	721 540 732	Call	5	0.170

table continued on the next page



d (mm)	R (inch)	PN (bar)	EPDM Part No.	USD	SP weight (kg)	FKM Part No.	USD	SP weight (kg)		
32	1	16	721 540 708	Call	5	0.262	721 540 733	Call	0	0.262
40	1 ¼	16	721 540 709	Call	2	0.476	721 540 734	Call	0	0.472
50	1 ½	16	721 540 710	Call	2	0.535	721 540 735	Call	0	0.535
63	2	16	721 540 711	Call	2	0.934	721 540 736	Call	0	0.931

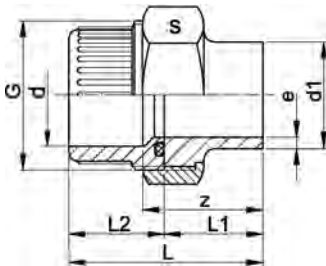
d (mm)	G (mm)	z (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	s (mm)
16	¾	40	35	54	30	24	19
20	1	44	43	60	34	26	24
25	1 ¼	46	51	65	36	29	32
32	1 ½	50	58	72	40	33	37
40	2	58	72	84	46	39	48
50	2 ¼	62	83	93	48	46	54
63	2 ¾	73	100	111	55	58	69



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)	d1 (mm)	PN (bar)	EPDM Part No.	USD	SP weight (kg)	FKM Part No.	USD	SP weight (kg)		
16	17	16	721 545 505	Call	10	0.101	721 545 530	Call	0	0.101
20	21	16	721 545 506	Call	10	0.176	721 545 531	Call	0	0.168
25	27	16	721 545 507	Call	5	0.204	721 545 532	Call	0	0.198
32	34	16	721 545 508	Call	5	0.313	721 545 533	Call	0	0.313
40	42	16	721 545 509	Call	2	0.493	721 545 534	Call	0	0.493
50	48	16	721 545 510	Call	2	0.566	721 545 535	Call	0	0.605
63	60	16	721 545 511	Call	2	0.902	721 545 536	Call	0	0.902

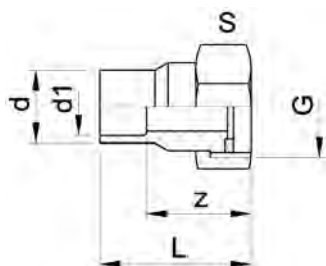
d (mm)	G (mm)	z (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	s (mm)
16	¾	28	42	18	24	1.6	32
20	1	32	48	22	26	2.0	41
25	1 ¼	33	52	23	29	2.0	46
32	1 ½	36	58	26	33	2.0	55
40	2	38	64	26	39	2.0	68
50	2 ¼	42	73	28	46	2.0	74
63	2 ¾	50	88	32	58	2.6	88



Tap connectors PVC-U/brass metric G

Model:

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



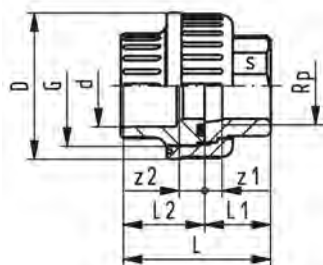
d (mm)	d1 (mm)	G (inch)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	L (mm)	s (mm)	
16	12	½	16	721 550 305	Call	10	0.031	22	34	24
20	16	¾	16	721 550 306	Call	10	0.049	24	38	30
25	20	1	16	721 550 307	Call	10	0.079	27	43	38



Adaptor union PVC-U/malleable iron galvanised metric Rp

Model:

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



d (mm)	Rp (inch)	PN (bar)	Part No.	USD	SP weight (kg)
20	½	16	721 530 306	Call	10 0.073
25	¾	16	721 530 307	Call	5 0.107
32	1	16	721 530 308	Call	5 0.154
40	1 ¼	16	721 530 309	Call	2 0.282
50	1 ½	16	721 530 310	Call	2 0.377
63	2	16	721 530 311	Call	2 0.594
75	2 ½	10	721 530 312	Call	2 1.008
90	3	10	721 530 313	Call	2 1.350

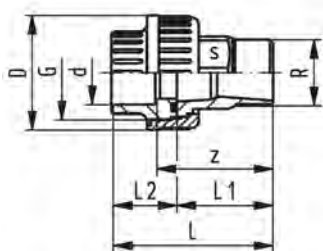
d (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	z1 (mm)	z2 (mm)	G (R/Rp BS Thread) (inch)	s (mm)
20	43	48	22	26	9	10	1	25
25	51	51	22	29	7	10	1 1/4	31
32	58	58	26	33	9	10	1 1/2	38
40	72	69	31	39	12	12	2	48
50	83	78	33	46	14	14	2 1/4	54
63	100	91	35	58	11	18	2 3/4	67
75	127	101	39	62	12	18	Tr 108x5	85
90	150	114	45	69	15	19	Tr 128x5	96



Adaptor union PVC-U/malleable iron galvanised metric R

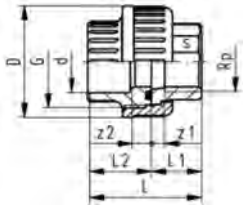
Model:

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



d (mm)	R (inch)	PN (bar)	Part No.	USD	SP weight (kg)
20	½	16	721 530 806	Call	10 0.107
25	¾	16	721 530 807	Call	5 0.159
32	1	16	721 530 808	Call	5 0.213
40	1 ¼	16	721 530 809	Call	2 0.426
50	1 ½	16	721 530 810	Call	2 0.528
63	2	16	721 530 811	Call	5 0.863
75	2 ½	10	721 530 812	Call	2 1.441
90	3	10	721 530 813	Call	1 1.873

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



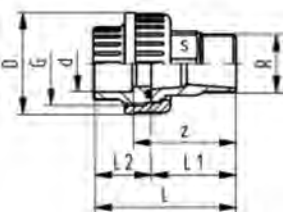
Adaptor union PVC-U/brass metric Rp

Model:

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

d (mm)	Rp (inch)	PN (bar)	Part No.	USD	SP	weight (kg)
20	½	16	721 550 506	Call	10	0.088
25	¾	16	721 550 507	Call	10	0.145
32	1	16	721 550 508	Call	5	0.175
40	1 ¼	16	721 550 509	Call	2	0.322
50	1 ½	16	721 550 510	Call	2	0.467
63	2	16	721 550 511	Call	8	0.776
75	2 ½	10	721 550 512	Call	2	1.360
90	3	10	721 550 513	Call	2	2.003

d (mm)	Rp (inch)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	s (mm)	z1 (mm)	z2 (mm)	G (R/Rp BS Thread) (inch)
20	½	43	48	22	26	25	7	10	1
25	¾	51	54	25	29	30	9	10	1 1/4
32	1	58	60	27	33	36	8	11	1 1/2
40	1 ¼	72	70	31	39	46	10	13	2
50	1 ½	83	81	35	46	55	13	15	2 1/4
63	2	100	98	40	58	65	14	20	2 3/4
75	2 ½	127	109	47	62	85	16	18	Tr 108x5
90	3	150	121	52	69	95	18	18	Tr 128x5



Adaptor union PVC-U/brass metric R

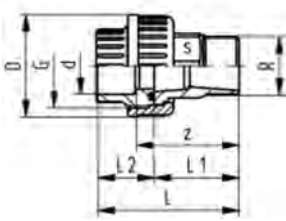
Model:

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

d (mm)	R (inch)	PN (bar)	Part No.	USD	SP	weight (kg)
20	½	16	721 550 906	Call	10	0.125
25	½	16	721 550 957	Call	5	0.196
25	¾	16	721 550 907	Call	5	0.196
25	1	16	721 550 967	Call	5	0.307
32	½	16	721 550 958	Call	5	0.297
32	¾	16	721 550 968	Call	5	0.297
32	1	16	721 550 908	Call	5	0.283
40	1 ¼	16	721 550 909	Call	2	0.502
50	1 ½	16	721 550 910	Call	2	0.681
63	2	16	721 550 911	Call	2	1.101
75	2 ½	10	721 550 912	Call	2	1.706
90	3	10	721 550 913	Call	1	2.662

d (mm)	R (inch)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	G (R/Rp BS Thread) (inch)	s (mm)
20	½	43	63	37	26	47	1	25
25	½	51	66	37	29	47	1 1/4	30
25	¾	51	71	42	29	52	1 1/4	30
25	1	51	75	46	29	56	1 1/4	30
32	½	58	70	37	33	48	1 1/2	36
32	¾	58	75	42	33	53	1 1/2	36
32	1	58	79	46	33	57	1 1/2	36
40	1 ¼	72	91	52	39	65	2	46

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d	R	D	L	L1	L2	z	G (R/Rp BS Thread)	s
(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)	(mm)
50	1 1/2	83	102	56	46	71	2 1/4	55
63	2	100	125	67	58	87	2 3/4	65
75	2 1/2	127	139	77	62	95	Tr 108x5	85
90	3	150	155	86	69	104	Tr 125x8	95

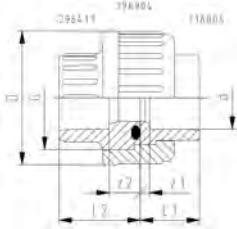
Thread unions



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 glues that are harmful to PVC
- Gasket: O-ring EPDM code no. 748 410 004-011
- Gasket: O-ring FKM code no. 749 410 004-011 (to be ordered separately)



Rp	PN	Part No.	USD	SP weight	G	z1	z2	D	L1	L2	
(inch)	(bar)			(kg)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	
1/4	10	721 510 604	Call	10	0.019	3/8	3	12	31	22	15
3/8	10	721 510 605	Call	10	0.027	3/8	3	13	35	24	17
1/2	10	721 510 606	Call	10	0.042	1	3	13	43	26	19
3/4	10	721 510 607	Call	10	0.065	1 1/4	3	14	51	29	22
1	10	721 510 608	Call	10	0.093	1 1/2	3	15	58	32	25
1 1/4	10	721 510 609	Call	10	0.160	2	3	19	72	38	29
1 1/2	10	721 510 610	Call	2	0.220	2 1/4	3	26	83	45	34
2	10	721 510 611	Call	5	0.415	2 3/4	3	33	100	56	41

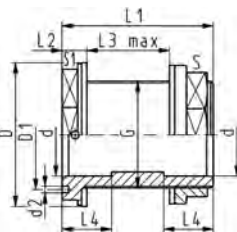
Tank adaptors



Tank adaptor for fix position stop Compact PVC-U metric

Model:

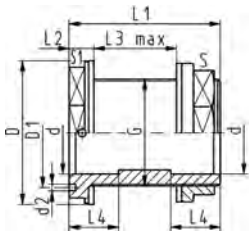
- End connection: solvent cement socket, metric
- Gasket: flat gasket EPDM
- Washer: PP
- Run-out holes: Two holes in octagonal head
- FKM flat gasket available for tank adaptor type 050



d	PN	EPDM Part No.	USD	SP weight	
(mm)	(bar)			(kg)	
16	16	161 050 445	Call	75	0.048
20	16	161 050 446	Call	50	0.066
25	16	161 050 447	Call	70	0.170
32	16	161 050 448	Call	50	0.144
40	16	161 050 449	Call	30	0.238
50	16	161 050 450	Call	20	0.260
63	16	161 050 451	Call	15	0.398

d	L3 max	Diameter of bore in tank side	D1	S	D	L2	S1	L4	L1	d2	G
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)
16	28	28	29	32	44	11	40	14	58	5	3/8
20	28	35	35	40	54	12	50	16	61	5	1
25	28	43	42	50	60	13	55	19	65	5	1 1/4

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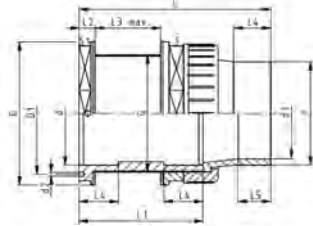
d (mm)	L3 max (mm)	Diameter of bore in tank side (mm)	D1 (mm)	S (mm)	D (mm)	L2 (mm)	S1 (mm)	L4 (mm)	L1 (mm)	d2 (mm)	G (inch)
32	28	49	49	56	69	13	65	22	67	5	1 ½
40	29	61	59	69	84	13	80	26	72	5	2
50	30	67	70	76	92	15	85	31	76	5	2 ¼
63	35	83	82	95	108	15	100	38	84	5	2 ¾



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

Model:

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



d (mm)	d1 (mm)	PN (bar)	EPDM Part No.	USD	SP weight (kg)
16	12	16	161 050 345	Call	1 0.068
20	16	16	161 050 346	Call	1 0.102
25	20	16	161 050 347	Call	1 0.157
32	25	16	161 050 348	Call	1 0.220
40	32	16	161 050 349	Call	1 0.353
50	40	16	161 050 350	Call	1 0.438
63	50	16	161 050 351	Call	1 0.680

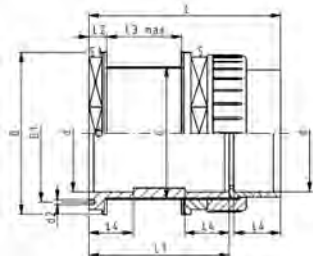
d (mm)	L (mm)	D (mm)	L1 (mm)	L5 (mm)	L4 (mm)	S1 (mm)	L2 (mm)	S (mm)	D1 (mm)	Diameter of bore in tank side (mm)	L3 max (mm)	G (inch)	d2 (mm)
16	96	44	58	12	14	40	11	32	29	28	19	¾	5
20	104	54	61	14	16	50	12	40	35	35	17	1	5
25	112	60	65	16	19	55	13	50	42	43	18	1 ¼	5
32	119	69	67	19	22	65	13	56	49	49	19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



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

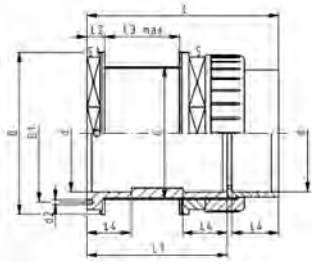
Model:

- 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)	Part No.	USD	SP weight (kg)
16	16	161 050 245	Call	1 0.064
20	16	161 050 246	Call	1 0.070
25	16	161 050 247	Call	1 0.100
32	16	161 050 248	Call	1 0.196
40	16	161 050 249	Call	1 0.328
50	16	161 050 250	Call	1 0.395
63	16	161 050 251	Call	1 0.530

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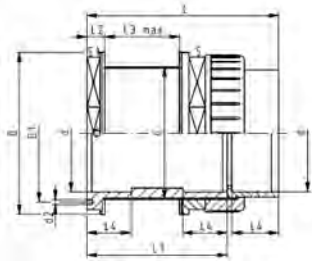
d (mm)	L (mm)	L2 (mm)	L1 (mm)	D (mm)	L3 max (mm)	Diameter of bore in tank side (mm)	S1 (mm)	L4 (mm)	d2 (mm)	D1 (mm)	S (mm)	G (inch)
16	77	11	58	44	19	28	40	14	5	29	32	¾
20	83	12	61	54	17	35	50	16	5	35	40	1
25	90	13	65	60	18	43	55	19	5	42	50	1 ¼
32	95	13	67	69	19	49	65	22	5	49	56	1 ½
40	104	13	72	84	16	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 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)	Part No.	USD	SP	weight (kg)
16	16	161 050 385	Call	1	0.040
20	16	161 050 386	Call	1	0.070
25	16	161 050 387	Call	1	0.160
32	16	161 050 388	Call	1	0.200
40	16	161 050 389	Call	1	0.240
50	16	161 050 390	Call	1	0.400
63	16	161 050 391	Call	1	0.530

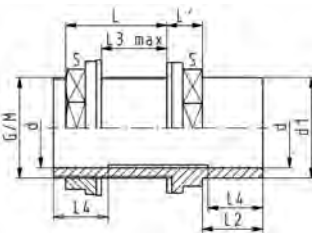
d (mm)	G (inch)	d2 (mm)	D1 (mm)	S (mm)	L3 max (mm)	Diameter of bore in tank side (mm)	S1 (mm)	L4 (mm)	L (mm)	L2 (mm)	L1 (mm)	D (mm)
16	¾	5	29	32	19	28	40	14	77	11	58	44
20	1	5	35	40	17	35	50	16	83	12	61	54
25	1 ¼	5	42	50	18	43	55	19	90	13	65	60
32	1 ½	5	49	56	19	49	65	22	95	13	67	69
40	2	5	59	69	16	61	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 adjustable stop PVC-U metric

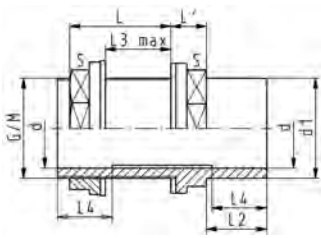
Model:

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



d (mm)	d1 (mm)	Part No.	USD	SP	weight (kg)
20	25	161 050 206	Call	0	0.046
25	32	161 050 207	Call	50	0.066
32	40	161 050 208	Call	50	0.106
40	50	161 050 209	Call	35	0.190
50	63	161 050 210	Call	25	0.248
63	75	161 050 211	Call	15	0.352
75	90	161 050 212	Call	20	0.539
90	110	161 050 213	Call	10	1.083
110	125	161 050 214	Call	6	1.350

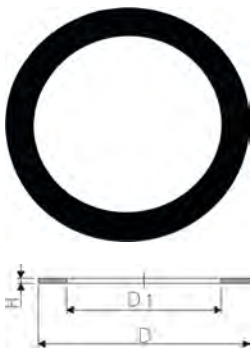
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d (mm)	L3 max (mm)	Diameter of bore in tank side (mm)	G (inch)	L1 (mm)	L2 (mm)	L (mm)	L4 (mm)	s (mm)	M
20	23	28	¾	13	19	42	16	32	
25	23	35	1	15	22	45	19	40	
32	24	43	1 ¼	17	26	49	22	50	
40	21	55	1 ¾	19	31	48	26	60	
50	21	61	2	21	38	52	31	69	
63	23	77	2 ½	23	44	53	38	85	
75	20	89	3	26	51	56	44	100	
90	20	115		32	61	62	51	125	M113
110	22	135		36	69	66	61	147	M133

Spare Parts Unions

Tank adaptor



Flat Gasket union For tank adaptor type 050

Model:

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

Size (inch)	EPDM Part No.	USD weight (kg)	FKM Part No.	USD weight (kg)	D (mm)	D1 (mm)	H (mm)
¾	748 400 005	Call	0.002	749 400 005	Call	0.020	24 17 2
1	748 400 006	Call	0.002	749 400 006	Call	0.003	30 21 3
1 ¼	748 400 007	Call	0.105	749 400 007	Call	0.004	38 27 3
1 ½	748 400 008	Call	0.002	749 400 008	Call	0.002	44 32 3
2	748 400 009	Call	0.007	749 400 009	Call	0.003	55 42 3
2 ¼	748 400 010	Call	0.004	749 400 010	Call	0.007	62 46 3
2 ¾	748 400 011	Call	0.005	749 400 011	Call	0.006	78 60 3

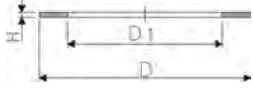


Backing nut PVC-U tank adaptor

Model:

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

M (inch)	G (inch)	Part No.	USD	SP weight (kg)	D (mm)	L (mm)	s (mm)
	¾	161 490 630	Call	400	0.007	39	13 32
	1	161 490 632	Call	200	0.012	48	15 40
	1 ¼	161 490 634	Call	100	0.019	58	17 50
	1 ½	161 490 635	Call	100	0.027	65	18 56
	1 ¾	161 490 636	Call	75	0.036	72	19 64
	2	161 490 637	Call	50	0.043	79	21 69
	2 ¼	161 490 638	Call	50	0.053	86	21 76
	2 ½	161 490 639	Call	25	0.063	94	23 85
	2 ¾	161 490 640	Call	25	0.092	106	25 95
	3	161 490 641	Call	20	0.101	112	26 100
	4	161 490 644	Call	10	0.164	139	32 126

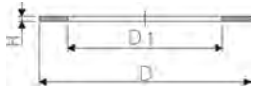


Washer PP for tank adaptor

Model:

- Spare part for tank adaptor type 050

d (mm)	d (inch)	Part No.	USD	SP	weight (kg)	H (mm)	D1 (mm)	D (mm)
3/4	3/4	727 490 005	Call	0	0.002	3	27	39
1	1	727 490 006	Call	0	0.002	3	34	47
1 1/4	1 1/4	727 490 007	Call	0	0.010	3	43	58
1 1/2	1 1/2	727 490 108	Call	0	0.004	4	49	65
1 3/4	1 3/4	727 490 008	Call	0	0.024	4	55	72
2	2	727 490 009	Call	0	0.028	4	61	79
2 1/4	2 1/4	727 490 010	Call	0	0.007	4	67	86
2 1/2	2 1/2	727 490 011	Call	10	0.008	4	77	95
2 3/4	2 3/4	727 490 111	Call	0	0.013	4	83	106
3	3	727 490 012	Call	0	0.013	5	90	112
M113	M113	727 490 013	Call	0	0.021	5	115	139
M133	M133	727 490 014	Call	0	0.025	5	135	160



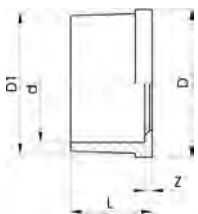
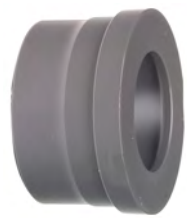
Flat Gasket inside the tank For tank adaptor type 050

Model:

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

Size (inch)	EPDM Part No.	USD	SP	weight (kg)	FKM Part No.	USD	SP	weight (kg)	D (mm)	D1 (mm)	H (mm)
¾	748 400 007	Call	1	0.105	749 400 007	Call	1	0.004	38	27	3
1	748 400 042	Call	1	0.003	749 400 042	Call	1	0.003	46	34	3
1 ¼	748 400 009	Call	1	0.007	749 400 009	Call	1	0.003	55	42	3
1 ½	748 400 043	Call	0	0.005	749 400 043	Call	1	0.009	69	49	3
2	748 400 011	Call	1	0.005	749 400 011	Call	1	0.006	78	60	3
2 ¼	748 400 044	Call	1	0.008	749 400 044	Call	1	0.009	90	64	3
2 ¾	748 400 045	Call	1	0.011	749 400 045	Call	1	0.011	106	82	3

Union Ends



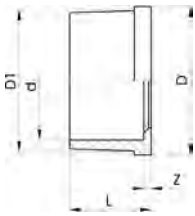
Union Ends, PVC Metric Socket

Model:

- Solvent cement socket metric
 - Suitable for unions, tank connectors and diaphragm valves Type 514
- * for unions 721 510 103-114, 721 510 128-139

d (mm)	PN (bar)	Part No.	USD	SP	weight (kg)	z (mm)	D (mm)	D1 (mm)	L (mm)
10	16	721 500 103	Call	10	0.004	3	20	18	15
12	16	721 500 104	Call	10	0.003	3	20	18	15
16	16	721 500 105	Call	10	0.003	3	24	22	17
20	16	721 500 106	Call	10	0.008	3	30	28	19
25	16	721 500 107	Call	10	0.014	3	39	36	22
32	16	721 500 108	Call	10	0.020	3	45	42	25
40	16	721 500 109	Call	10	0.037	3	57	53	29
50	16	721 500 110	Call	10	0.039	3	63	59	34
63	16	721 500 111	Call	10	0.072	3	78	74	41
75	10	721 500 162	Call	20	0.140	3	101	90	47

table continued on the next page



	d (mm)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	D (mm)	D1 (mm)	L (mm)	
	90	10	721 500 163	Call	12	0.242	5	121	108	56
	110	10	721 500 164	Call	10	0.390	5	146	131	66
*	75	10	721 600 112	Call	110	0.155	3	97	90	47
*	90	10	721 600 113	Call	0	0.188	5	110	105	56

Union end with spigot PVC-U metric

Model:

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



	d (mm)	d1 (mm)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	z1 (mm)	D (mm)	D1 (mm)	L (mm)	
*	16	12	16	721 500 405	Call	10	0.010	22	24	24	22	36
*	20	16	16	721 500 406	Call	10	0.009	24	26	30	28	40
*	25	20	16	721 500 407	Call	10	0.026	25	28	39	36	44
*	32	25	16	721 500 408	Call	10	0.035	27	30	45	42	49
	40	32	16	721 500 409	Call	10	0.055	31	35	57	53	57
	50	40	16	721 500 410	Call	10	0.085	35	40	63	59	66
	63	50	16	721 500 411	Call	10	0.108	39	46	79	74	77

Union end PVC-U metric

Model:

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



	d (mm)	d1 (mm)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	D (mm)	L (mm)	L1 (mm)	
	16	12	16	721 600 305	Call	2000	0.005	22	19	34	3
	20	16	16	721 600 306	Call	1500	0.009	24	24	38	5
	25	20	16	721 600 307	Call	1200	0.016	27	30	43	5

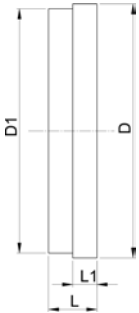
Union end PVC-U Rp

Model:

- Parallel female thread Rp



Rp (inch)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	D (mm)	D1 (mm)	L (mm)	
¼	10	721 600 654	Call	970	0.004	5	20	18	15
⅜	10	721 600 655	Call	2000	0.005	6	24	22	17
½	10	721 600 656	Call	1430	0.010	6	30	28	19
¾	10	721 600 657	Call	1200	0.015	7	39	36	22
1	10	721 600 658	Call	800	0.019	8	45	42	25
1 ¼	10	721 600 659	Call	500	0.038	10	57	53	29
1 ½	10	721 600 660	Call	300	0.057	11	63	59	34
2	10	721 600 661	Call	170	0.102	18	78	74	41

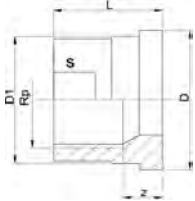
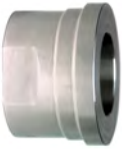


Union end blank PVC-U

Model:

- For unions, tank adaptor and daphragm valve type 514
- Joining face flat

d (mm)	DN (mm)	Size (inch)	PN (bar)	Part No.	USD	SP weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	
10/12		1/8	16	721 600 004	Call	0	0.006	20	18	9	4
16	10	3/8	16	721 600 005	Call	0	0.004	24	22	10	5
20	15	1/2	16	721 600 006	Call	0	0.009	30	28	11	5
25	20	3/4	16	721 600 007	Call	0	0.017	39	36	11	6
32	25	1	16	721 600 008	Call	0	0.025	45	42	12	6
40	32	1 1/4	16	721 600 009	Call	0	0.042	57	53	13	7
50	40	1 1/2	16	721 600 010	Call	0	0.061	63	59	16	7
63	50	2	16	721 600 011	Call	0	0.108	78	74	18	8
75	65	2 1/2	10	721 600 012	Call	0	0.216	101	90	22	10
90	80	3	10	721 600 013	Call	0	0.333	121	108	24	11
110	100	4	10	721 600 014	Call	0	0.530	146	131	26	12

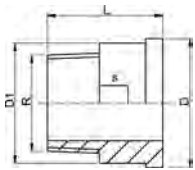


Union end stainless steel Rp

Model:

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

Rp (inch)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	D (mm)	D1 (mm)	L (mm)	s (mm)	
3/8	16	724 600 655	Call	10	0.030	9	24	22	19	19
1/2	16	724 600 656	Call	10	0.060	11	30	28	24	24
3/4	16	724 600 657	Call	10	0.092	11	39	36	26	29
1	16	724 600 658	Call	10	0.137	12	45	42	29	36
1 1/4	16	724 600 659	Call	10	0.226	14	57	53	33	45
1 1/2	16	724 600 660	Call	10	0.314	15	63	59	34	54
2	16	724 600 661	Call	45	0.438	15	78	74	39	63

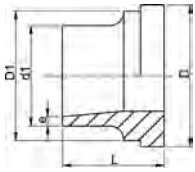


Union end stainless steel R

Model:

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

R (inch)	PN (bar)	Part No.	USD	SP weight (kg)	D (mm)	D1 (mm)	L (mm)	s (mm)	
3/8	16	724 600 705	Call	10	0.052	24	22	30	19
1/2	16	724 600 706	Call	10	0.083	30	28	34	24
3/4	16	724 600 707	Call	10	0.125	39	36	36	32
1	16	724 600 708	Call	10	0.189	45	42	40	37
1 1/4	16	724 600 709	Call	10	0.356	57	53	46	48
1 1/2	16	724 600 710	Call	10	0.407	63	59	48	54
2	16	724 600 711	Call	10	0.668	78	74	55	69

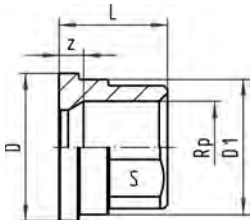


Union end stainless steel Welding end

Model:

- Material: Stainless Steel 1.4404 (316L)

d1 (mm)	d (mm)	PN (bar)	Part No.	USD	SP weight (kg)	D (mm)	D1 (mm)	L (mm)	e (mm)	
17	16	16	724 605 505	Call	10	0.029	24	22	18	1.6
21	20	16	724 605 506	Call	10	0.046	30	28	22	2.0
26	25	16	724 605 507	Call	10	0.080	39	36	23	2.0
33	32	16	724 605 508	Call	10	0.112	45	42	26	2.0
42	40	16	724 605 509	Call	10	0.188	57	53	26	2.0
48	50	16	724 605 510	Call	10	0.222	63	59	28	2.0
60	63	16	724 605 511	Call	10	0.361	78	74	32	2.6

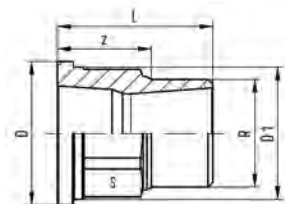


Union end brass Rp

Model:

- Union End: Brass with parallel female thread Rp

Rp (inch)	d (mm)	Part No.	USD	SP weight (kg)	L (mm)	s (mm)	D (mm)	D1 (mm)	z (mm)	
½	20	720 600 236	Call	1	0.059	22	25	30	28	5
¾	25	720 600 237	Call	1	0.100	25	30	39	36	6
1	32	720 600 238	Call	1	0.128	27	36	45	42	6
1 ¼	40	720 600 239	Call	1	0.211	31	46	56	53	7
1 ½	50	720 600 240	Call	1	0.324	35	55	62	59	7
2	63	720 600 241	Call	1	0.510	40	65	78	74	8
2 ½	75	720 600 242	Call	1	0.893	47	85	100	92	10
3	90	720 600 243	Call	1	1.395	52	95	121	110	11

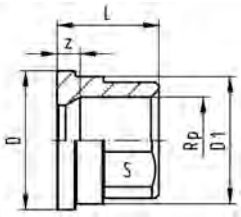


Union end brass R

Model:

- Union End: Brass with taper male thread R

d (mm)	R (inch)	Part No.	USD	SP weight (kg)	z (mm)	D1 (mm)	D (mm)	s (mm)	L (mm)	
20	½	720 600 246	Call	1	0.092	22	28	30	25	37
25	¾	720 600 247	Call	1	0.151	25	36	39	30	42
25	½	720 600 257	Call	1	0.142	27	36	39	30	42
32	1	720 600 248	Call	1	0.216	28	42	45	36	46
32	½	720 600 258	Call	1	0.113	31	42	45	36	46
32	¾	720 600 268	Call	1	0.206	30	42	45	36	46
40	1 ¼	720 600 249	Call	1	0.408	32	53	56	46	52
50	1 ½	720 600 250	Call	1	0.538	36	59	62	55	56
63	2	720 600 251	Call	1	0.859	42	74	78	65	67
75	2 ½	720 600 252	Call	1	1.446	49	92	100	85	77
90	3	720 600 253	Call	1	2.063	54	110	121	95	86

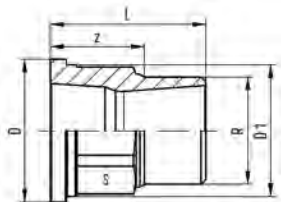


Union end malleable iron galvanized Rp

Model:

- Union End: malleable iron with parallel female thread Rp

d (mm)	Rp (inch)	PN (bar)	Part No.	USD	SP weight (kg)	D (mm)	L (mm)	s (mm)	z (mm)	D1 (mm)	
20	½	16	724 600 206	Call	0	0.037	30	22	25	9	27
25	¾	16	724 600 207	Call	0	0.072	39	22	31	7	36
32	1	16	724 600 208	Call	120	0.088	44	26	38	9	41
40	1 ¼	16	724 600 209	Call	0	0.172	56	31	48	12	52
50	1 ½	16	724 600 210	Call	10	0.210	62	33	54	14	58
63	2	16	724 600 211	Call	0	0.324	78	35	67	11	73
75	2 ½	16	724 600 212	Call	35	0.557	100	39	85	12	92
90	3	16	724 600 213	Call	0	0.650	121	45	96	15	110



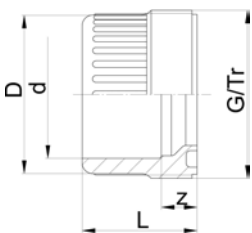
Union end malleable iron galvanized R

Model:

- Union End: Malleable iron with taper male thread R

R (inch)	d (mm)	Part No.	USD	SP weight (kg)	D (mm)	L (mm)	D1 (mm)	z (mm)	s (mm)	
½	20	724 600 806	Call	0	0.069	30	40	27	25	23
¾	25	724 600 807	Call	1	0.115	39	43	36	27	30
1	32	724 600 808	Call	0	0.161	44	48	41	29	36
1 ¼	40	724 600 809	Call	0	0.294	56	57	52	36	48
1 ½	50	724 600 810	Call	0	0.353	62	59	58	37	54
2	63	724 600 811	Call	0	0.570	78	62	73	36	66
2 ½	75	724 600 812	Call	0	0.980	100	75	92	45	85
3	90	724 600 813	Call	0	1.217	121	80	110	47	95

Union bushes

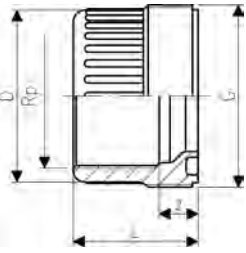


Union bush PVC-U metric

Model:

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

d (mm)	PN (bar)	Part No.	USD	SP weight (kg)	z (mm)	D (mm)	L (mm)	G/Tr (inch)	
10	16	721 840 103	Call	10	0.002	10	20	22	5/8
12	16	721 840 104	Call	10	0.007	10	20	22	5/8
16	16	721 840 105	Call	10	0.009	10	24	24	3/4
20	16	721 840 106	Call	10	0.014	10	29	26	1
25	16	721 840 107	Call	10	0.020	10	34	29	1 1/4
32	16	721 840 108	Call	10	0.032	10	42	33	1 1/2
40	16	721 840 109	Call	10	0.057	12	52	39	2
50	16	721 840 110	Call	10	0.073	14	62	46	2 1/4
63	16	721 840 111	Call	10	0.137	18	78	58	2 3/4
75	10	721 840 112	Call	20	0.210	18	93	62	Tr108x5
90	10	721 840 123	Call	12	0.355	18	110	69	Tr128x5
110	10	721 840 114	Call	10	0.445	11	133	72	Tr154x6

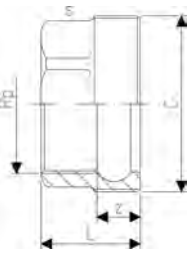


Union bush PVC-U Rp

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 glues that are harmful to PVC

Rp (inch)	PN (bar)	Part No.	USD	SP weight (kg)	G (inch)	z (mm)	D (mm)	L (mm)
¼	10	721 840 604	Call	10	0.007	⅝	12	22
⅜	10	721 840 605	Call	10	0.009	¾	13	24
½	10	721 840 606	Call	10	0.013	1	13	26
¾	10	721 840 607	Call	10	0.026	1 ¼	14	29
1	10	721 840 608	Call	10	0.036	1 ½	15	32
1 ¼	10	721 840 609	Call	10	0.063	2	19	38
1 ½	10	721 840 610	Call	10	0.098	2 ¼	26	45
2	10	721 840 611	Call	10	0.187	2 ¾	33	56



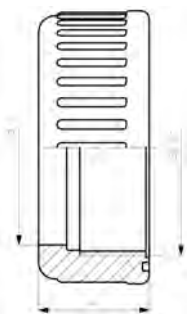
Union bush malleable iron galvanized Rp

Model:

- Parallel female thread Rp

PN (bar)	Rp (inch)	d (mm)	Part No.	USD	SP weight (kg)	G (inch)	z (mm)	s (mm)	L (mm)
16	½	20	724 630 606	Call	0	0.058	1	12	25
16	¾	25	724 630 607	Call	0	0.100	1 ¼	13	28
16	1	32	724 630 608	Call	0	0.127	1 ½	14	31
16	1 ¼	40	724 630 609	Call	0	0.204	2	14	33
16	1 ½	50	724 630 610	Call	24	0.268	2 ¼	17	36
16	2	63	724 630 611	Call	0	0.443	2 ¾	18	42
16	2 ½	75	724 630 612	Call	0	0.679	3 ½	19	46
16	3	90	724 630 613	Call	0	0.913	4	22	52

Union Nuts



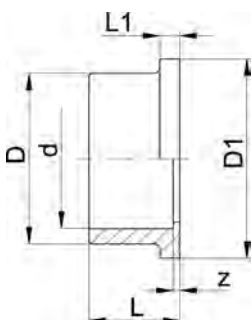
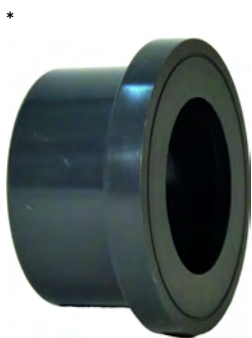
Union Nuts, PVC

* for Adaptor unions PVC-U / malleable iron only

d (mm)	PN (bar)	Part No.	USD	SP weight (kg)	Tr (inch)	G (mm)	D (mm)	L (mm)
10 - 12	16	721 890 004	Call	10	0.009	⅝	19	19
16	16	721 890 005	Call	10	0.011	¾	22	21
20	16	721 890 006	3.00	10	0.020	1	28	23
25	16	721 890 007	Call	10	0.020	1 ¼	36	24
32	16	721 890 008	5.00	10	0.030	1 ½	41	26
40	16	721 890 009	6.00	10	0.049	2	53	29
50	16	721 890 010	8.00	10	0.087	2 ¼	59	34
63	16	721 890 011	11.00	10	0.138	2 ¾	74	38
75	10	721 890 012	Call	20	0.256	Tr 108x5	92	40
90	10	721 890 013	Call	12	0.370	Tr 128x5	110	43
*	90	721 890 023	Call	12	0.355	Tr 128x5	105	43
110	10	721 890 014	Call	10	0.574	Tr 154x6	133	48

Flange Adapters

Flange Adapters



Flange Adapter, PVC

Joining face flat, Combined Joining face flat and serrated, metric

Model:

- Solvent cement socket metric
- d63 - d400: combined jointing face flat and serrated
- Gasket: profile flange gasket EPDM code no. 748 440 705-725, 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
- Flange: PVC-U code no. 721 700 005-140, PP with steel ring code no. 727 700 206-225, backing flange PP-V for socket systems metric code no. 727 700 406-425

Note:

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

The flat gasket affects the maximum allowable operating pressure!

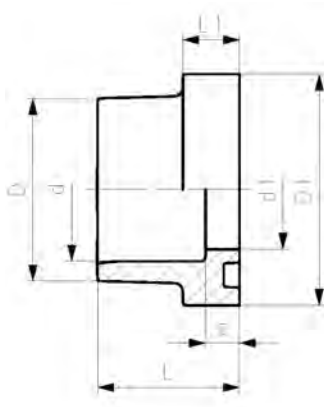
DN (mm)	d (inch)	d (mm)	PN (bar)	Part No.	USD	SP	weight (kg)	D1 (mm)	z (mm)	L (mm)	D (mm)	L1 (mm)
10		16	16	721 800 105	2.56	10	0.006	29	3	17	22	6
15		20	16	721 800 106	2.56	10	0.009	34	3	19	27	6
20		25	16	721 800 107	2.56	10	0.015	41	3	22	33	7
25		32	16	721 800 108	3.94	10	0.024	50	3	25	41	7
32		40	16	721 800 109	5.11	10	0.039	61	3	29	50	8
40		50	16	721 800 110	7.78	10	0.056	73	3	34	61	8
50		63	16	721 790 111	12.79	10	0.103	90	3	41	77	9
65	2 ½	75	16	721 790 112	20.90	10	0.159	106	3	47	91	10
80		90	16	721 790 113	23.13	10	0.253	125	5	56	108	11
100		110	16	721 790 114	31.24	10	0.417	150	5	66	131	12
100		125	16	721 790 115	Call	5	0.533	170	5	74	148	13
125	5	140	16	721 790 116	Call	6	0.725	188	5	81	165	14
150		160	16	^ 721 790 117	76.43	2	1.093	213	5	91	188	16
*	200	200	10	* 721 790 119	162.14	2	1.460	250	6	112	224	24
	200	225	10	* 721 790 120	171.42	2	1.743	274	6	125	248	25
*	250	250	10	721 790 121	Call	1	2.203	303	9	140	274	23
	250	280	10	721 790 122	Call	1	2.930	329	5	151	308	23
*	300	315	6	721 790 123	Call	1	4.455	379	8	172	346	27
	350	355	6	721 790 124	Call	1	5.963	430	10	194	384	32
	400	400	6	721 790 125	Call	1	9.041	482	10	216	438	34



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

Model:

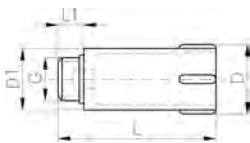
- Solvent cement socket metric
- Counterpart: flange adaptor flat code no. 721 800 105-721 790 111-125, combined flange adaptor (d160, d200, d225, d280, d315)
- Gasket: O-ring EPDM code no. 748 410 000-176, FKM code no. 749 410 000-176
- Flange: PVC-U code no. 721 700 005-138, PP/steel code no. 727 700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



d (inch)	d (mm)	DN (mm)	PN (bar)	Part No.	USD	SP	weight (kg)	D1 (mm)	z	d1 (mm)	D (mm)	L (mm)	L1 (mm)
	16	10	16	721 810 105	Call	10	0.008	29	6	13	22	20	9
	20	15	16	721 810 106	Call	10	0.011	34	6	16	27	22	9
	25	20	16	721 810 107	Call	10	0.018	41	6	21	33	25	10
	32	25	16	721 810 108	Call	10	0.027	50	6	28	41	28	10
	40	32	16	721 810 109	Call	10	0.046	61	8	36	50	34	13
	50	40	16	721 810 110	Call	10	0.068	73	8	45	61	39	13
	63	50	16	721 810 111	Call	10	0.120	90	8	57	77	46	14
2 ½	75	65	16	721 810 112	Call	10	0.183	106	8	69	91	52	15
	90	80	16	721 810 113	Call	10	0.286	125	10	82	108	61	16
	110	100	16	721 810 114	Call	10	0.478	150	11	102	131	72	18
	125	100	16	721 810 115	Call	5	0.607	170	11	117	148	80	19
5	140	125	16	721 810 116	Call	6	0.804	188	11	132	165	87	20
	160	150	16	721 810 117	Call	2	1.226	213	11	152	188	97	22
	200	200	10	721 810 119	Call	2	1.593	250	12	192	224	118	30
	225	200	10	721 810 120	Call	2	1.878	274	12	217	248	131	31
	250	250	10	721 810 121	Call	1	2.175	303	9	240	274	140	23
	280	250	10	721 810 122	Call	1	3.170	329	13	270	308	158	30
	315	300	6	721 810 123	Call	1	4.891	379	17	302	346	180	35

Accessories and special parts

Miscellaneous



Wall inlet plug PVC-U

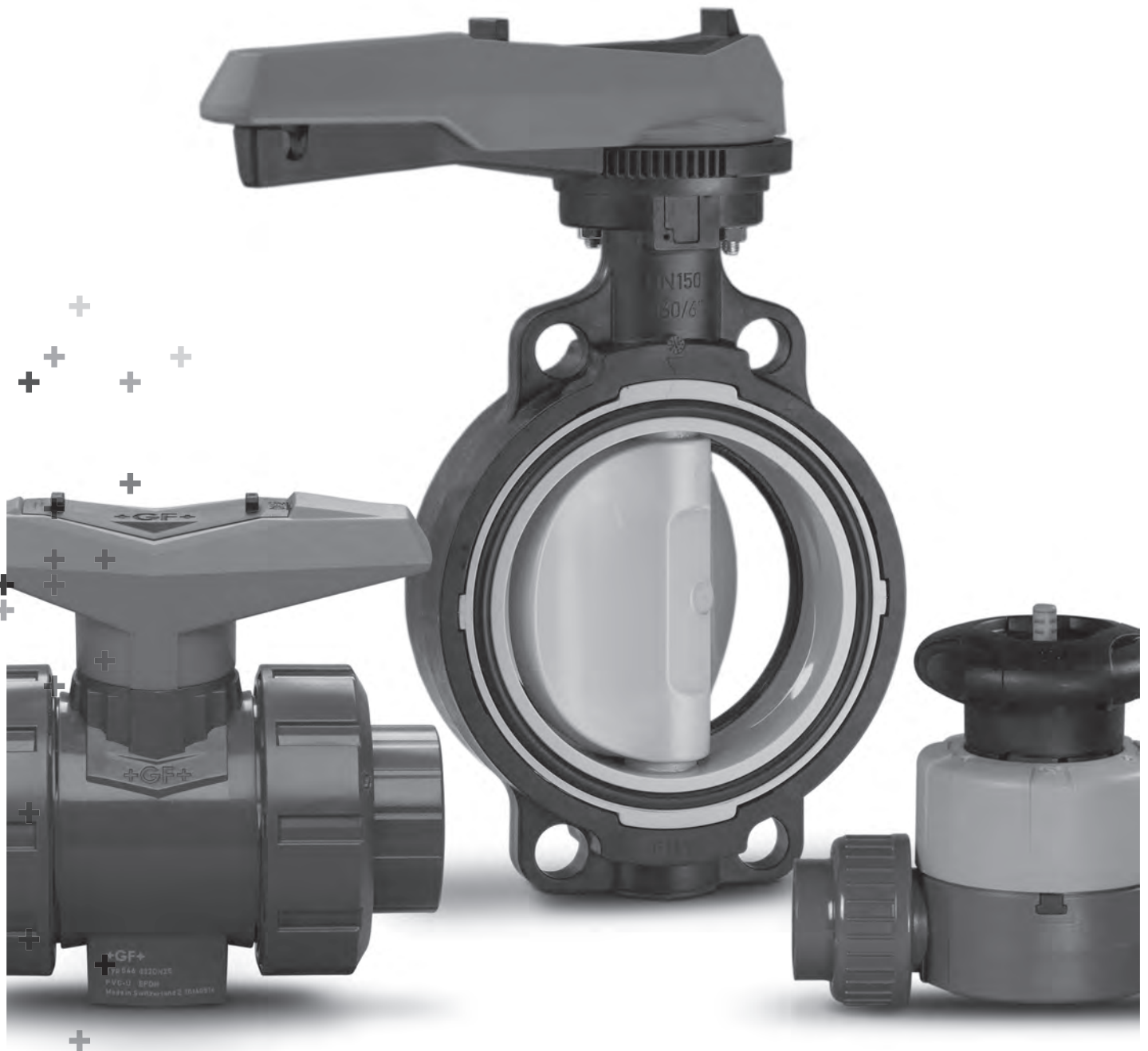
Model:

- Gasket: flat gasket Code No. 748 400 001, EPDM
- Use: for all fittings with parallel female thread in accordance with ISO 7
- The wall inlet plug has a parallel male thread G

G (inch)	Part No.	USD	SP	weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)
½	799 150 003	Call	10	0.044	39	32	87	11

Section 9

PVC and CPVC Valves





Ball Valves

192



Check Valves & Line Strainer

202



Diaphragm Valves

207



Butterfly Valves

209

Ball Valves



DN10/15 - 50



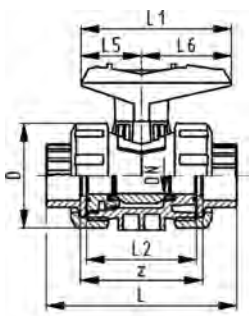
Type 546 PVC Ball Valve
With mounting inserts
With solvent cement sockets inch ASTM
Including 2 threaded valve ends NPT

Model:

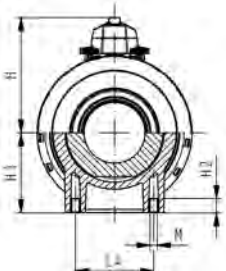
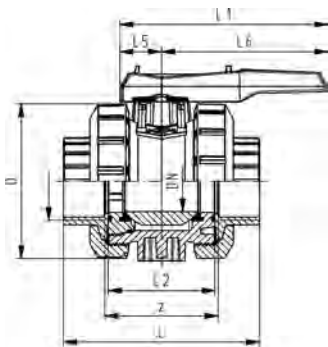
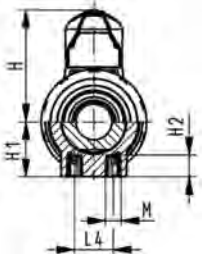
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Threaded valve ends are only enclosed for DN10/15-50
- Valve end and union nut are **not compatible** with Type 346 (DN10/15-50) and Type 370 (DN65-100)

Option:

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

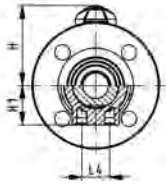
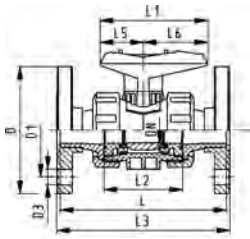


Size (inch)	EPDM Part No.	USD	FKM Part No.	USD
3/8	161 546 341	Call	161 546 351	Call
1/2	161 546 342	Call	161 546 352	Call
3/4	161 546 343	Call	161 546 353	Call
1	161 546 344	Call	161 546 354	Call
1 1/4	161 546 345	Call	161 546 355	Call
1 1/2	161 546 346	Call	161 546 356	Call
2	161 546 347	Call	161 546 357	Call
2 1/2	161 546 348	Call	161 546 358	Call
3	161 546 349	Call	161 546 359	Call
4	161 546 350	Call	161 546 360	Call





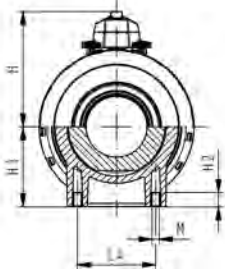
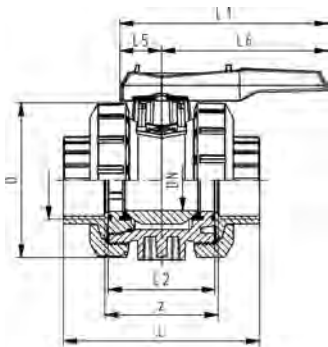
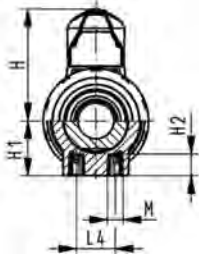
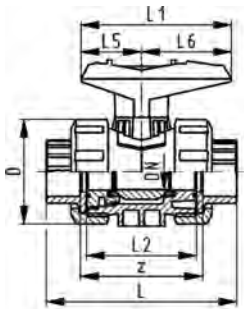
**Type 546 True Union Ball Valve-CPVC
ANSI Flanged**



Size (inch)	EPDM Part No.	USD	FKM Part No.	USD
½	^ 163 546 582	Call	^ 163 546 592	Call
¾	^ 163 546 583	Call	^ 163 546 593	Call
1	^ 163 546 584	Call	^ 163 546 594	Call
1 ¼	^ 163 546 585	Call	^ 163 546 595	Call
1 ½	^ 163 546 586	Call	^ 163 546 596	Call
2	^ 163 546 587	Call	^ 163 546 597	Call
2 ½	^ 163 546 588	Call	^ 163 546 598	Call
3	^ 163 546 589	Call	^ 163 546 599	Call
4	^ 163 546 590	Call	^ 163 546 600	Call



DN10/15 - 50



Type 546 CPVC Ball Valve
With mounting inserts
With solvent cement sockets inch ASTM
Including 2 threaded union ends NPT

Model:

- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts

Option:

- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from GF

Size (inch)	EPDM Part No.	USD	FKM Part No.	USD
3/8	163 546 341	Call	163 546 351	Call
1/2	163 546 342	Call	163 546 352	Call
3/4	163 546 343	Call	163 546 353	Call
1	163 546 344	Call	163 546 354	Call
1 1/4	163 546 345	Call	163 546 355	Call
1 1/2	163 546 346	Call	163 546 356	Call
2	163 546 347	Call	163 546 357	Call
2 1/2	163 546 348	Call	163 546 358	Call
3	163 546 349	Call	163 546 359	Call
4	163 546 350	Call	163 546 360	Call

**Type 546 True Union Ball Valve-PVC
ANSI Flanged**

Size (inch)	EPDM Part No.	USD	FKM Part No.	USD
½	^ 161 546 582	Call	^ 161 546 592	Call
¾	^ 161 546 583	Call	^ 161 546 593	Call
1	^ 161 546 584	Call	^ 161 546 594	Call
1 ¼	^ 161 546 585	Call	^ 161 546 595	Call
1 ½	^ 161 546 586	Call	^ 161 546 596	Call
2	^ 161 546 587	Call	^ 161 546 597	Call
2 ½	^ 161 546 168	Call	^ 161 546 178	Call
3	^ 161 546 169	Call	^ 161 546 179	Call
4	^ 161 546 170	Call	^ 161 546 180	Call



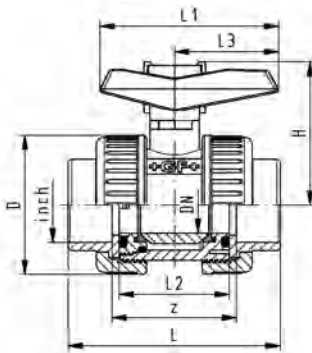
**Type 375 True Union Ball Valve PVC
Solvent cement socket/Threaded NPT**

Model:

- For easy installation and removal
- Ball seals PTFE
- Actuation not available
- Threaded valve ends are only enclosed for DN10/15-50
- z-dimension, valve end and union nut are not compatible with type 546

Range of use:

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

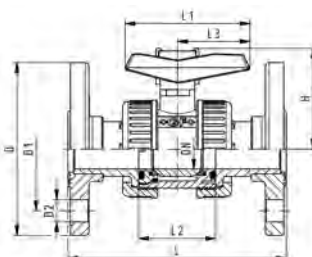


Size (inch)	EPDM Part No.	USD	FKM Part No.	USD
¾	161 375 001	Call	161 375 016	Call
½	161 375 002	Call	161 375 017	Call
¾	161 375 003	Call	161 375 018	Call
1	161 375 004	Call	161 375 019	Call
1 ¼	161 375 005	Call	161 375 020	Call
1 ½	161 375 006	Call	161 375 021	Call
2	161 375 007	Call	161 375 022	Call
2 ½	161 375 008	Call	161 375 023	Call
3	161 375 009	Call	161 375 024	Call
4	161 375 010	Call	161 375 025	Call



**Type 375 True Union Ball Valve PVC
ANSI Flanged**

Size (inch)	EPDM Part No.	USD	FKM Part No.	USD
½	^ 161 375 062	Call	^ 161 375 077	Call
¾	^ 161 375 063	Call	^ 161 375 078	Call
1	^ 161 375 064	Call	^ 161 375 079	Call
1 ¼	^ 161 375 065	Call	^ 161 375 080	Call
1 ½	^ 161 375 066	Call	^ 161 375 081	Call
2	^ 161 375 067	Call	^ 161 375 082	Call
2 ½	^ 161 375 068	Call	^ 161 375 083	Call
3	^ 161 375 069	Call	^ 161 375 084	Call
4	^ 161 375 070	Call	^ 161 375 085	Call





**Type 375 True Union Ball Valve CPVC
Socket/Threaded NPT**

Size (inch)	EPDM Part No.	USD	FKM Part No.	USD
½	163 375 002	Call	163 375 017	Call
¾	163 375 003	Call	163 375 018	Call
1	163 375 004	Call	163 375 019	Call
1 ¼	163 375 005	Call	163 375 020	Call
1 ½	163 375 006	Call	163 375 021	Call
2	163 375 007	Call	163 375 022	Call



**Type 375 True Union Ball Valve CPVC
ANSI Flanged**

Size (inch)	EPDM Part No.	USD	FKM Part No.	USD
½	^ 163 375 062	Call	^ 163 375 077	Call
¾	^ 163 375 063	Call	^ 163 375 078	Call
1	^ 163 375 064	Call	^ 163 375 079	Call
1 ¼	^ 163 375 065	Call	^ 163 375 080	Call
1 ½	^ 163 375 066	Call	^ 163 375 081	Call
2	^ 163 375 067	Call	^ 163 375 082	Call
2 ½	163 375 068	Call	163 375 083	Call
3	163 375 069	Call	163 375 084	Call
4	163 375 070	Call	163 375 085	Call



**Type 523 Metering Ball Valve PVC
With mounting inserts
With solvent cement sockets inch ASTM
Including 2 threaded valve ends NPT**

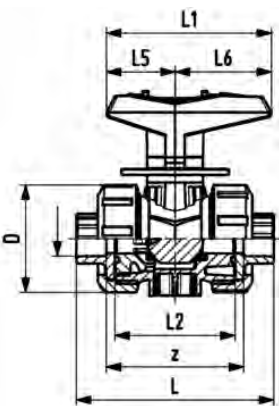
Model:

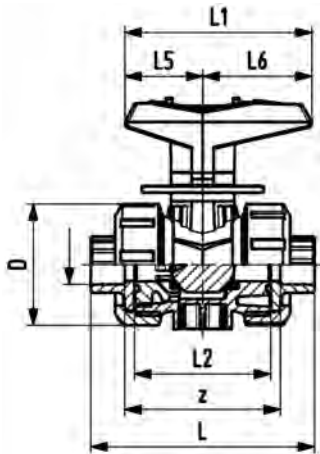
- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seals PTFE
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts **not compatible** to Type 323

Option:

- Other materials on demand

Size (inch)	EPDM Part No.	USD	FKM Part No.	USD
¾	161 523 521	Call	161 523 531	Call
½	161 523 522	Call	161 523 532	Call





Type 523 Metering Ball Valve CPVC
With mounting inserts
With solvent cement sockets inch ASTM
Including 2 threaded valve ends NPT

Model:

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

Option:

- Other materials on demand

Size (inch)	DN (mm)	PN (bar)	Cv-value (l/min)	EPDM Part No.	USD	SP weight (kg)
3/8	10	10	11	163 523 521	Call	1 0.170
1/2	10	10	20	163 523 522	Call	1 0.174

Size (inch)	FKM Part No.	USD	SP weight (kg)
3/8	163 523 531	Call	1 0.170
1/2	163 523 532	Call	1 0.170

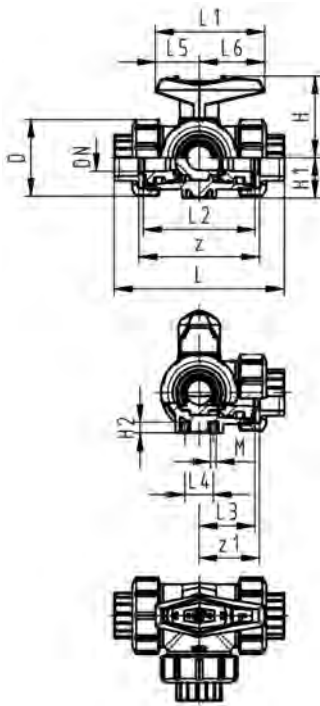
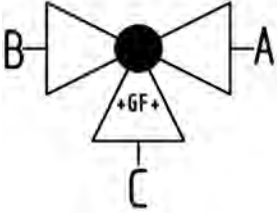
Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)
3/8	50	68	27	12	105	77	56	25	32	45	6	67
1/2	50	68	27	12	105	77	56	25	32	45	6	61



Type 543 PVC 3-Way Ball Valve
Horizontal/L-port
With solvent cement sockets ASTM

Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Integrated stainless steel mounting inserts



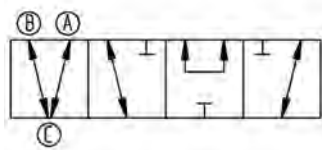
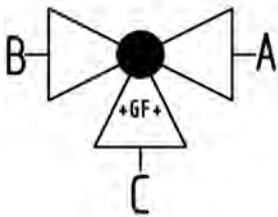
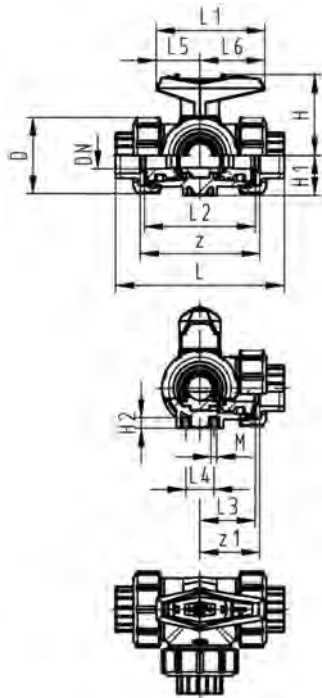
Size (inch)	EPDM	USD	FKM	USD
	Part No.		Part No.	
3/8	161 543 081	Call	161 543 091	Call
1/2	161 543 082	Call	161 543 092	Call
3/4	161 543 083	Call	161 543 093	Call
1	161 543 084	Call	161 543 094	Call
1 1/4	161 543 085	Call	161 543 095	Call
1 1/2	161 543 086	Call	161 543 096	Call
2	161 543 087	Call	161 543 097	Call



Type 543 PVC 3-Way Ball Valve
Horizontal/T-port
With solvent cement sockets ASTM

Model:

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



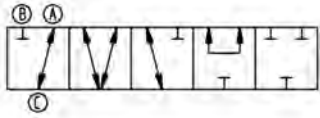
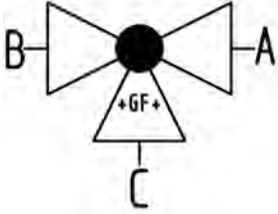
Size (inch)	EPDM Part No.	USD Call	FKM Part No.	USD Call
3/8	161 543 281	Call	161 543 291	Call
1/2	161 543 282	Call	161 543 292	Call
3/4	161 543 283	Call	161 543 293	Call
1	161 543 284	Call	161 543 294	Call
1 1/4	161 543 285	Call	161 543 295	Call
1 1/2	161 543 286	Call	161 543 296	Call
2	161 543 287	Call	161 543 297	Call



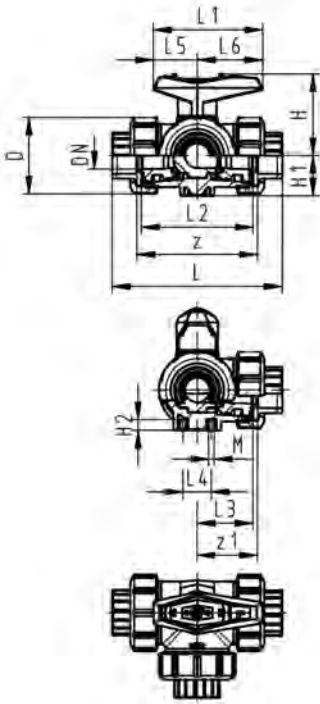
Type 543 CPVC 3-Way Ball Valve
Horizontal/L-port
With solvent cement sockets ASTM

Model:

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



Size (inch)	EPDM	USD	FKM	USD
	Part No.		Part No.	
3/8	163 543 081	Call	163 543 091	Call
1/2	163 543 082	Call	163 543 092	Call
3/4	163 543 083	Call	163 543 093	Call
1	163 543 084	Call	163 543 094	Call
1 1/4	163 543 085	Call	163 543 095	Call
1 1/2	163 543 086	Call	163 543 096	Call
2	163 543 087	Call	163 543 097	Call

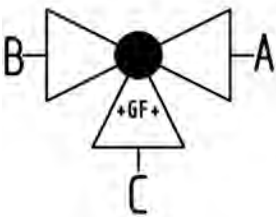
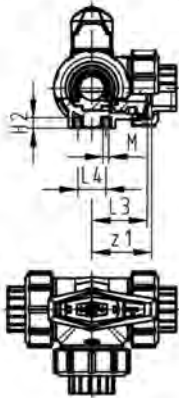
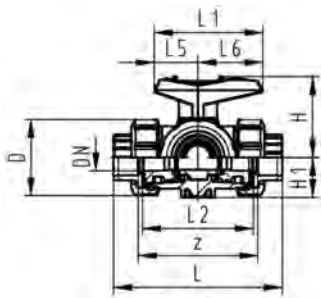




Type 543 CPVC 3-Way Ball Valve
Horizontal/T-port
With solvent cement sockets ASTM

Model:

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



Size (inch)	EPDM Part No.	USD Call	FKM Part No.	USD Call
3/8	163 543 281	Call	163 543 291	Call
1/2	163 543 282	Call	163 543 292	Call
3/4	163 543 283	Call	163 543 293	Call
1	163 543 284	Call	163 543 294	Call
1 1/4	163 543 285	Call	163 543 295	Call
1 1/2	163 543 286	Call	163 543 296	Call
2	163 543 287	Call	163 543 297	Call

Check Valves & Line Strainer



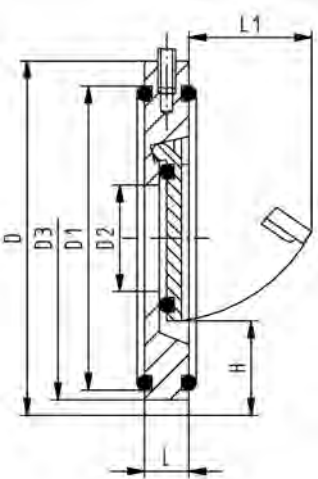
Type 369 Wafer Check Valve PVC Without spring

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 1 1/2" to 3", use ANSI flange adaptors with the next bigger dimension (example: 1 1/2" wafer check valve between 2" ANSI flange adaptor)
- Centering by body diameter (ISO/DIN by D3, ANSI by D)
- Sealing with O-rings
- A stabilizing zone of at least 5 times nominal diameter should be provided before and after the wafer check valve
- Do not install on pump flange
- For use with Sch40 or Sch80 pipe
- Wafer check valves without reset spring are not recommended for pulsating flows (production of noise)

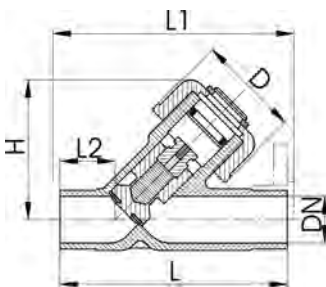


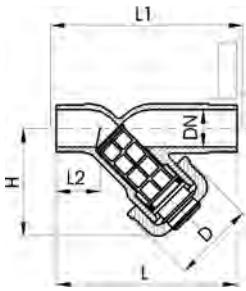
d	Size	EPDM	USD	FKM	USD
(mm)	(inch)	Part No.		Part No.	
40	1 1/4	161 369 002	Call	161 369 022	Call
50	1 1/2	161 369 003	Call	161 369 023	Call
63	2	161 369 004	Call	161 369 024	Call
75	2 1/2	161 369 005	Call	161 369 025	Call
90	3	161 369 006	Call	161 369 026	Call
110	4	161 369 007	Call	161 369 027	Call
140	5	161 369 009	Call	161 369 029	Call
160	6	161 369 010	Call	161 369 030	Call
225	8	161 369 011	Call	161 369 031	Call
280	10	161 369 012	Call	161 369 032	Call
315	12	161 369 013	Call	161 369 033	Call



Type 304 Translucent Y-Check Valve PVC Transparent body with solvent cement spigots ASTM

Size	EPDM	USD	FKM	USD
(inch)	Part No.		Part No.	
1/2	192 304 006	Call	192 304 031	Call
3/4	192 304 007	Call	192 304 032	Call
1	192 304 008	Call	192 304 033	Call
1 1/4	192 304 009	Call	192 304 034	Call
1 1/2	192 304 010	Call	192 304 035	Call
2	192 304 011	Call	192 304 036	Call
3	192 304 013	Call	192 304 038	Call



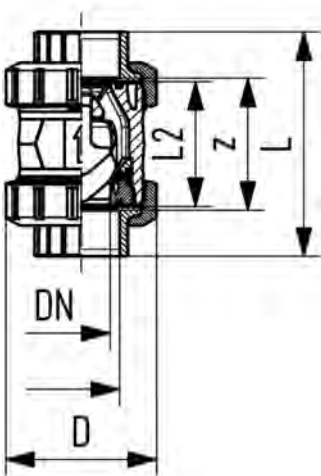


Type 306 Translucent Line Strainer PVC
Transparent body with solvent cement spigots ASTM/ANSI

Model:

- Protects valves, pumps, etc. from becoming damaged
- Easy dismantling to clean or replace the screen
- With screen PVC, perforation \varnothing 0.8 mm, 20 mesh, 1/32 inch

Size (inch)	EPDM Part No.	USD	FKM Part No.	USD
1/2	192 306 300	Call	192 306 349	Call
3/4	192 306 350	Call	192 306 399	Call
1	192 306 400	Call	192 306 449	Call
1 1/4	192 306 450	Call	192 306 499	Call
1 1/2	192 306 500	Call	192 306 549	Call
2	192 306 550	Call	192 306 599	Call
3	192 306 650	Call	192 306 699	Call



Check valve type 561 PVC
With solvent cement sockets inch ASTM
Threaded valve ends NPT

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

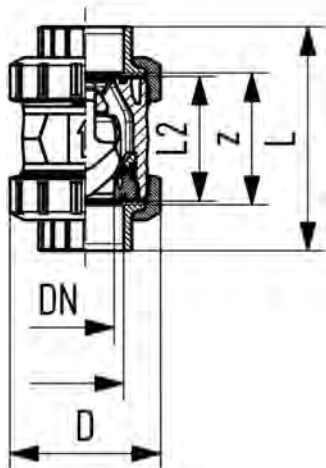
NPT (inch)	EPDM Part No.	USD	FKM Part No.	USD
3/8	161 561 101	Call	161 561 111	Call
1/2	161 561 102	Call	161 561 112	Call
3/4	161 561 103	Call	161 561 113	Call
1	161 561 104	Call	161 561 114	Call
1 1/4	161 561 105	Call	161 561 115	Call
1 1/2	161 561 106	Call	161 561 116	Call
2	161 561 107	Call	161 561 117	Call
2 1/2	161 561 108	Call	^ 161 561 118	Call
3	161 561 109	Call	^ 161 561 119	Call
4	161 561 110	Call	^ 161 561 120	Call



Check valve type 562 PVC
With solvent cement sockets inch ASTM
Threaded valve ends NPT

Model:

- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- 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



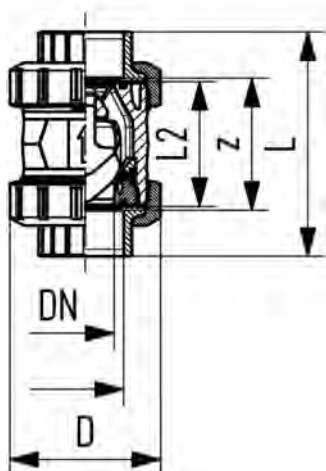
NPT (inch)	EPDM Part No.	USD	FKM Part No.	USD
3/8	161 562 101	Call	161 562 111	Call
1/2	161 562 102	Call	161 562 112	Call
3/4	161 562 103	Call	161 562 113	Call
1	161 562 104	Call	161 562 114	Call
1 1/4	161 562 105	Call	161 562 115	Call
1 1/2	161 562 106	Call	161 562 116	Call
2	161 562 107	Call	161 562 117	Call
2 1/2	161 562 108	Call	^ 161 562 118	Call
3	161 562 109	Call	^ 161 562 119	Call
4	161 562 110	Call	^ 161 562 120	Call



Check valve type 561 CPVC
With solvent cement sockets inch ASTM
Including 2 threaded valve ends NPT

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



NPT (inch)	EPDM Part No.	USD	FKM Part No.	USD
3/8	163 561 101	Call	163 561 111	Call
1/2	163 561 102	Call	163 561 112	Call
3/4	163 561 103	Call	163 561 113	Call
1	163 561 104	Call	163 561 114	Call
1 1/4	163 561 105	Call	163 561 115	Call
1 1/2	163 561 106	Call	163 561 116	Call
2	163 561 107	Call	163 561 117	Call
2 1/2	^ 163 561 108	Call	^ 163 561 118	Call
3	^ 163 561 109	Call	^ 163 561 119	Call
4	^ 163 561 110	Call	^ 163 561 120	Call

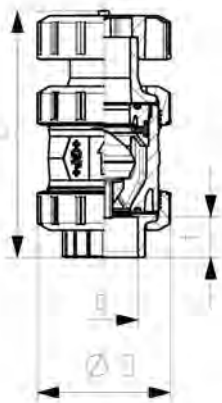


Type 591 PVC Ventilating and bleed valve
With solvent cement sockets inch ASTM
Threaded valve ends NPT

Model:

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

NPT (inch)	EPDM Part No.	USD	FKM Part No.	USD
3/8	161 591 101	Call	161 591 111	Call
1/2	161 591 102	Call	161 591 112	Call
3/4	161 591 103	Call	161 591 113	Call
1	161 591 104	Call	161 591 114	Call
1 1/4	161 591 105	Call	161 591 115	Call
1 1/2	161 591 106	Call	161 591 116	Call
2	161 591 107	Call	161 591 117	Call
2 1/2	^ 161 591 108	Call	^ 161 591 118	Call
3	^ 161 591 109	Call	^ 161 591 119	Call
4	^ 161 591 110	Call	^ 161 591 120	Call

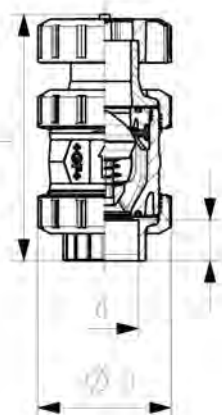


Type 595 PVC ventilating valve
With solvent cement sockets inch ASTM
Threaded valve ends NPT

Model:

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

NPT (inch)	EPDM Part No.	USD	FKM Part No.	USD
3/8	^ 161 595 101	Call	^ 161 595 111	Call
1/2	161 595 102	Call	161 595 112	Call
3/4	^ 161 595 103	Call	^ 161 595 113	Call
1	161 595 104	Call	161 595 114	Call
1 1/4	^ 161 595 105	Call	^ 161 595 115	Call
1 1/2	161 595 106	Call	161 595 116	Call
2	161 595 107	Call	161 595 117	Call
2 1/2	* 161 595 108	Call	* 161 595 118	Call
3	* 161 595 109	Call	* 161 595 119	Call
4	* 161 595 110	Call	* 161 595 120	Call



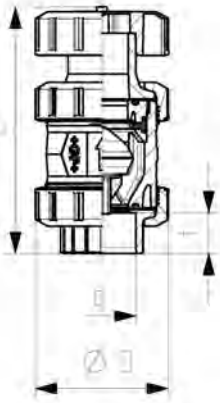


Type 591 CPVC Ventilating and bleed valve
With solvent cement sockets inch ASTM
Threaded valve ends NPT

Model:

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

NPT (inch)	EPDM Part No.	USD	FKM Part No.	USD
3/8	163 591 101	Call	163 591 111	Call
1/2	163 591 102	Call	163 591 112	Call
3/4	163 591 103	Call	163 591 113	Call
1	163 591 104	Call	163 591 114	Call
1 1/4	163 591 105	Call	163 591 115	Call
1 1/2	163 591 106	Call	163 591 116	Call
2	163 591 107	Call	163 591 117	Call
2 1/2	* 163 591 108	Call	* 163 591 118	Call
3	* 163 591 109	Call	* 163 591 119	Call
4	* 163 591 110	Call	* 163 591 120	Call

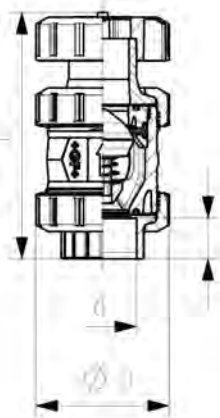


Type 595 CPVC ventilating valve
With solvent cement sockets inch ASTM
Threaded valve ends NPT

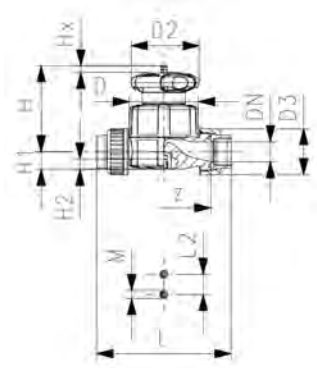
Model:

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

NPT (inch)	EPDM Part No.	USD	FKM Part No.	USD
3/8	^ 163 595 101	Call	^ 163 595 111	Call
1/2	163 595 102	Call	163 595 112	Call
3/4	^ 163 595 103	Call	^ 163 595 113	Call
1	163 595 104	Call	163 595 114	Call
1 1/4	^ 163 595 105	Call	^ 163 595 115	Call
1 1/2	163 595 106	Call	163 595 116	Call
2	163 595 107	Call	163 595 117	Call
2 1/2	* 163 595 108	Call	* 163 595 118	Call
3	* 163 595 109	Call	* 163 595 119	Call
4	* 163 595 110	Call	* 163 595 120	Call



Diaphragm Valves



Type 514 Diaphragm Valve PVC With solvent cement sockets ASTM

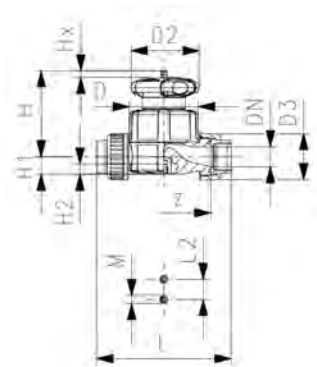
Model:

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

Option:

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

Size (inch)	EPDM Part No.	USD	PTFE/EPDM Part No.	USD	H1 (mm)	H2 (mm)
½	161 514 612	Call	161 514 632	Call	14	12
¾	161 514 613	Call	161 514 633	Call	18	12
1	161 514 614	Call	161 514 634	Call	22	12
1 ¼	161 514 615	Call	161 514 635	Call	26	15
1 ½	161 514 616	Call	161 514 636	Call	32	15
2	161 514 617	Call	161 514 637	Call	39	15



Type 514 Diaphragm Valve CPVC Solvent cement socket ASTM

Model:

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

Option:

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

Size (inch)	EPDM Part No.	USD	FKM Part No.	USD	PTFE/EPDM Part No.	USD
½	163 514 612	Call	163 514 662	Call	163 514 632	Call
¾	163 514 613	Call	163 514 663	Call	163 514 633	Call
1	163 514 614	Call	163 514 664	Call	163 514 634	Call
1 ¼	163 514 615	Call	163 514 665	Call	163 514 635	Call
1 ½	163 514 616	Call	163 514 666	Call	163 514 636	Call
2	163 514 617	Call	163 514 667	Call	163 514 637	Call



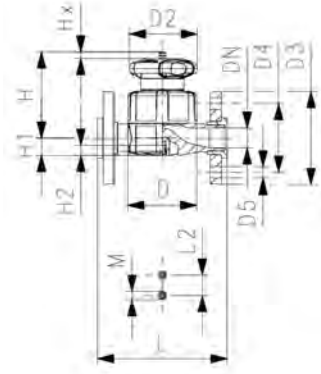
Type 517 Diaphragm Valve PVC ANSI Flanged

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Joining face flat
- EPDM version is PN 10 pressure rated. PTFE/EPDM version is PN 6 pressure rated.
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

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



Size (inch)	EPDM Part No.	USD	FKM Part No.	USD	PTFE/EPDM Part No.	USD
½	^ 161 517 612	Call	161 517 662	Call	161 517 632	Call
¾	^ 161 517 613	Call	161 517 663	Call	161 517 633	Call
1	^ 161 517 614	Call	161 517 664	Call	161 517 634	Call
1 ¼	^ 161 517 615	Call	161 517 665	Call	161 517 635	Call
1 ½	^ 161 517 616	Call	161 517 666	Call	161 517 636	Call
2	^ 161 517 617	Call	161 517 667	Call	161 517 637	Call



Type 317 Diaphragm Valve PVC PVC Flanged

Size (inch)	CSM Part No.	USD
* 2 ½	161 317 653	Call
* 3	161 317 654	Call
* 4	161 317 114	Call
* 6	161 317 657	Call



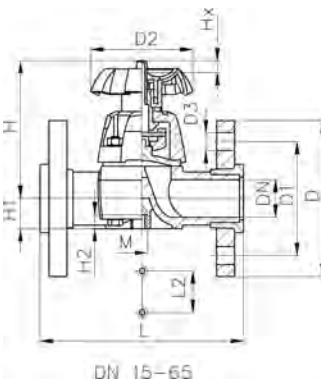
Type 317 Diaphragm Valve CPVC Flanged

Model:

- Joining face flat
- DN 15-65 with backing flange
- Overall length according to EN 558
- Connecting dimension ANSI/ASME B 16.5 / ASTM D 4024

Option:

- Handwheel with built-in locking mechanism (standard version is nonlockable)



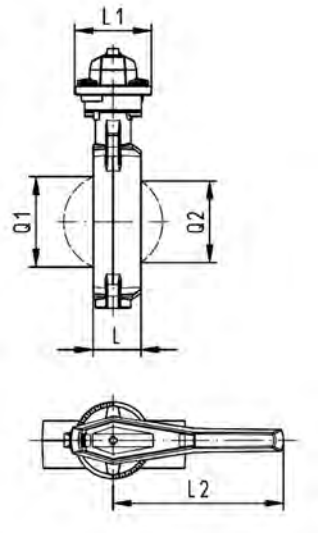
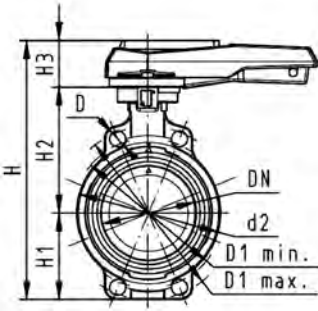
Size (inch)	EPDM Part No.	USD	FKM Part No.	USD	PTFE with EPDM supp. diaphragm Part No.	USD
2 ½	* 163 317 623	Call	* 163 317 668	Call	* 163 317 638	Call
3	* 163 317 024	Call	* 163 317 069	Call		Call
4	* 163 317 325	Call	* 163 317 370	Call	* 163 317 340	Call

Butterfly Valves

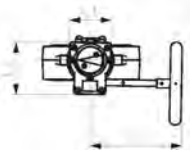
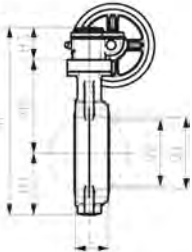
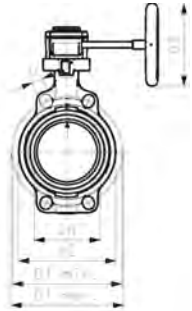


Type 567 Butterfly Valve PVC
Hand lever with ratchet settings

d (mm)	EPDM Part No.	USD	FKM Part No.	USD	D3 (mm)	L3 (mm)
63	161 567 002	Call	161 567 022	Call	160	179
75	161 567 003	Call	161 567 023	Call	160	179
90	161 567 004	Call	161 567 024	Call	160	179
110	161 567 005	Call	161 567 025	Call	160	179
140	161 567 006	Call	161 567 026	Call	160	179
160	161 567 007	Call	161 567 027	Call	160	179
225	161 567 008	Call	161 567 028	Call	160	179
280	161 567 009	Call	161 567 029	Call	200	198
315	161 567 010	Call	161 567 030	Call	200	198



Type 567 Butterfly Valve PVC
Reduction Gear with Handwheel (14"-24" available in PP)

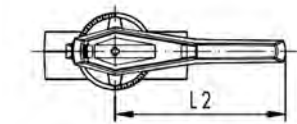
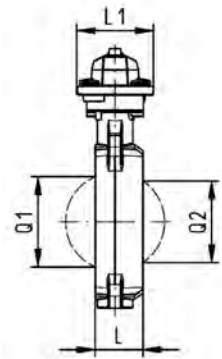
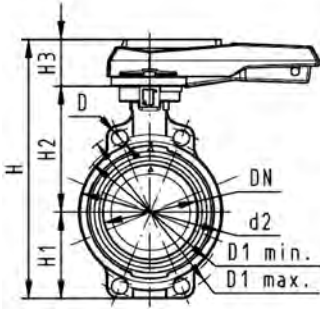


d (mm)	EPDM Part No.	USD	FKM Part No.	USD	H (mm)
63	161 567 042	Call	161 567 062	Call	273
75	161 567 043	Call	161 567 063	Call	285
90	161 567 044	Call	161 567 064	Call	297
110	161 567 045	Call	161 567 065	Call	333
140	161 567 046	Call	161 567 066	Call	360
160	161 567 047	Call	161 567 067	Call	381
225	161 567 048	Call	161 567 068	Call	430
280	161 567 049	Call	161 567 069	Call	538
315	161 567 050	Call	161 567 070	Call	582
355	* 161 567 051	Call	* 161 567 071	Call	747
400	* 161 567 052	Call	* 161 567 072	Call	804

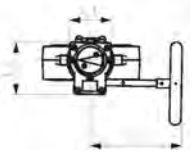
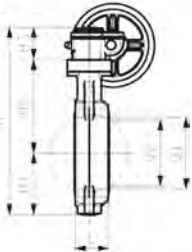
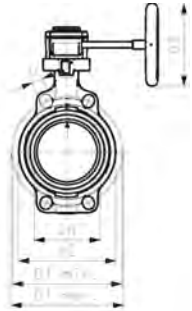


Type 567 Butterfly Valve CPVC
Hand lever with ratchet settings

d (mm)	EPDM Part No.	USD	FKM Part No.	USD
63	163 567 002	Call	163 567 022	Call
75	163 567 003	Call	163 567 023	Call
90	163 567 004	Call	163 567 024	Call
110	163 567 005	Call	163 567 025	Call
140	163 567 006	Call	163 567 026	Call
160	163 567 007	Call	163 567 027	Call
225	163 567 008	Call	163 567 028	Call
280	163 567 009	Call	163 567 029	Call
315	163 567 010	Call	163 567 030	Call



Type 567 Butterfly Valve CPVC
Reduction gear with handwheel



d (mm)	Size (inch)	EPDM Part No.	USD	FKM Part No.	USD
63	2	163 567 042	Call	163 567 062	Call
75	2 ½	163 567 043	Call	163 567 063	Call
90	3	163 567 044	Call	163 567 064	Call
110	4	163 567 045	Call	163 567 065	Call
140	5	163 567 046	Call	163 567 066	Call
160	6	163 567 047	Call	163 567 067	Call
225	8	163 567 048	Call	163 567 068	Call
280	10	163 567 049	Call	163 567 069	Call
315	12	163 567 050	Call	163 567 070	Call



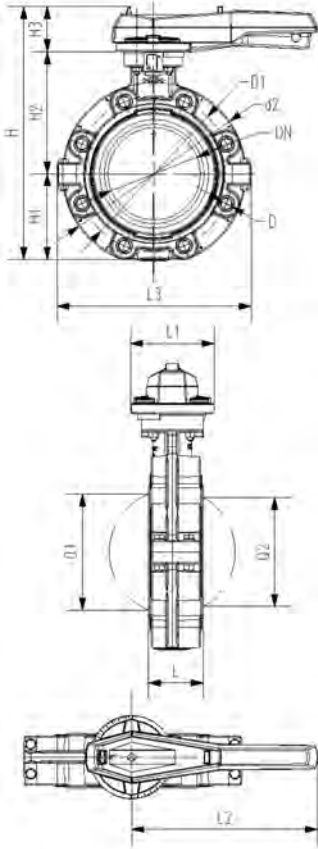
Type 578 Lugstyle Butterfly Valve PVC
Hand lever with ratchet settings

Model:

- Housing material: PP-GF30 with 316SS lug inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

Option:

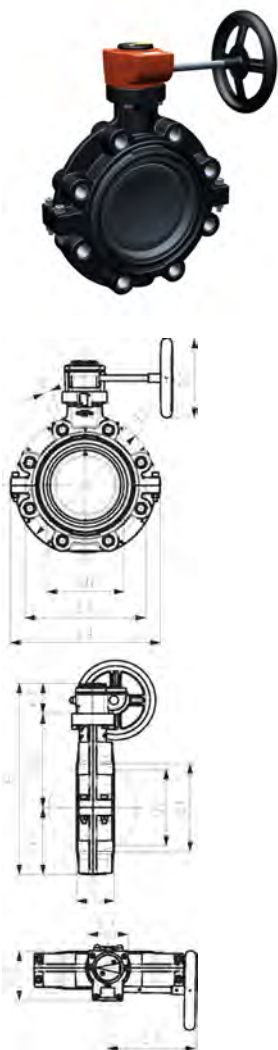
- Optional accessory: Integrated position feedback with limit switches (sold separately)



Size (inch)	DN (mm)	PN (bar)	Cv-value (l/min)	EPDM Part No.	USD	SP	weight (kg)
2	50	10	1470	161 578 102	Call	1	1.800
2 ½	65	10	2200	161 578 103	Call	1	1.895
3	80	10	3000	161 578 104	Call	1	2.251
4	100	10	6500	161 578 105	Call	1	3.146
5	125	10	11500	161 578 106	Call	1	4.660
6	150	10	16600	161 578 107	Call	1	6.430
8	200	10	39600	161 578 108	Call	1	8.625
10	250	10	55200	161 578 109	Call	1	19.528
12	300	10	80000	161 578 110	Call	1	26.106

Size (inch)	FKM Part No.	USD	SP	weight (kg)
2	161 578 122	Call	1	1.800
2 ½	161 578 123	Call	1	1.895
3	161 578 124	Call	1	2.251
4	161 578 125	Call	1	3.146
5	161 578 126	Call	1	4.660
6	161 578 127	Call	1	6.430
8	161 578 128	Call	1	8.625
10	161 578 129	Call	1	19.528
12	161 578 130	Call	1	26.106

Size (inch)	d2 (mm)	D	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	Q1 (mm)	Q2 (mm)
2	160	UNC 5/8	120.6	265	77	134	54	45	106	205	165	40	
2 ½	180	UNC 5/8	139.7	277	83	140	54	46	106	205	182	54	35
3	195	UNC 5/8	152.4	289	89	146	54	49	106	205	210	67	50
4	226	UNC 5/8	190.5	328	106	167	55	56	106	255	240	88	74
5	258	UNC 3/4	215.9	357	121	181	55	64	106	255	272	113	97
6	284	UNC 3/4	241.3	377	133	189	55	72	106	255	300	139	123
8	341	UNC 3/4	298.4	436	159	210	67	73	140	408	360	178	169
10	412	UNC 7/8	362.0	536	205	264	67	113	140	408	440	210	207
12	482	UNC 7/8	431.8	586	234	285	67	113	140	408	510	256	253



Type 578 Lugstyle Butterfly Valve PVC Reduction gear with handwheel

Model:

- Housing material: PP-GF30 with 316SS lug inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Optional accessory: Integrated position feedback with limit switches (sold separately)

Size (inch)	DN (mm)	PN (bar)	Cv-value (l/min)	EPDM Part No.	USD	SP	weight (kg)
2	50	10	1470	161 578 142	Call	1	3.522
2 ½	65	10	2200	161 578 143	Call	1	3.672
3	80	10	3000	161 578 144	Call	1	3.929
4	100	10	6500	161 578 145	Call	1	4.834
5	125	10	11500	161 578 146	Call	1	6.348
6	150	10	16600	161 578 147	Call	1	8.109
8	200	10	39600	161 578 148	Call	1	9.353
10	250	10	55200	161 578 149	Call	1	21.210
12	300	10	80000	161 578 150	Call	1	27.746

Size (inch)	FKM Part No.	USD	SP	weight (kg)
2	161 578 162	Call	1	3.522
2 ½	161 578 163	Call	1	3.672
3	161 578 164	Call	1	3.929
4	161 578 165	Call	1	4.834
5	161 578 166	Call	1	6.348
6	161 578 167	Call	1	8.109
8	161 578 168	Call	1	9.353
10	161 578 169	Call	1	21.210
12	161 578 170	Call	1	27.746

Size (inch)	d2 (mm)	D	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)
2	160	UNC 5/8	120.6	160	273	77	134	62	23	45	78	112	179	165
2 ½	180	UNC 5/8	139.7	160	285	83	140	62	23	46	78	112	179	182
3	195	UNC 5/8	152.4	160	297	89	146	62	23	49	78	112	179	210
4	226	UNC 5/8	190.5	160	335	106	167	62	23	56	78	112	179	240
5	258	UNC 3/4	215.9	160	364	121	181	62	23	64	78	112	179	272
6	284	UNC 3/4	241.3	160	384	133	189	62	23	72	78	112	179	300
8	341	UNC 3/4	298.4	160	431	159	210	62	23	73	78	112	179	360
10	412	UNC 7/8	362.0	200	538	205	264	69	23	113	97	130	198	440
12	482	UNC 7/8	431.8	200	588	234	285	69	23	113	97	130	198	510

Size (inch)	Q1 (mm)	Q2 (mm)
2	40	
2 ½	54	35
3	67	50
4	88	74
5	113	97
6	139	123
8	178	169
10	210	207
12	256	253



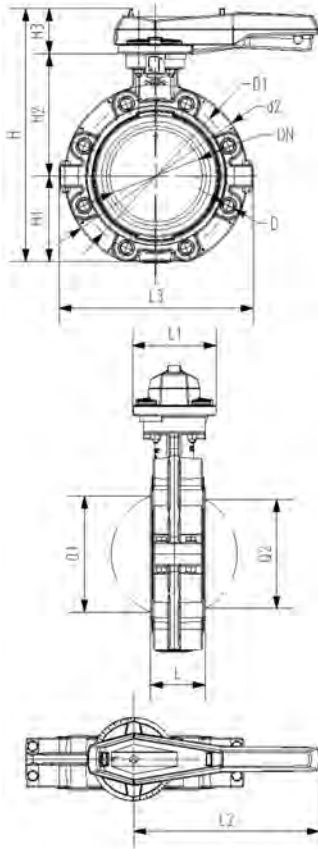
Type 578 Lugstyle Butterfly Valve CPVC
Hand lever with ratchet settings

Model:

- Housing material: PP-GF30 with 316SS lug inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

Option:

- Optional accessory: Integrated position feedback with limit switches (sold separately)



d	Size	DN	PN	Cv-value	EPDM	USD	SP	weight
(mm)	(inch)	(mm)	(bar)	(l/min)	Part No.			(kg)
63	2	50	10	1470	163 578 102	Call	1	1.800
75	2 ½	65	10	2200	163 578 103	Call	1	1.895
90	3	80	10	3000	163 578 104	Call	1	2.251
110	4	100	10	6500	163 578 105	Call	1	3.146
140	5	125	10	11500	163 578 106	Call	1	4.660
160	6	150	10	16600	163 578 107	Call	1	6.430
225	8	200	10	39600	163 578 108	Call	1	8.625
280	10	250	10	55200	163 578 109	Call	1	19.528
315	12	300	10	80000	163 578 110	Call	1	26.106

FKM	USD	SP	weight
Part No.			(kg)
163 578 122	Call	1	1.800
163 578 123	Call	1	1.895
163 578 124	Call	1	2.251
163 578 125	Call	1	3.146
163 578 126	Call	1	4.660
163 578 127	Call	1	6.430
163 578 128	Call	1	8.625
163 578 129	Call	1	19.528
163 578 130	Call	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

Type 578 Lugstyle Butterfly Valve CPVC Reduction gear with handwheel

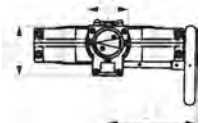
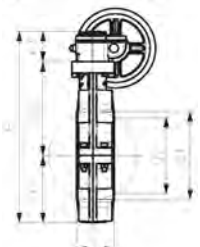
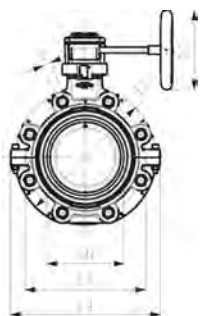


Model:

- Housing material: PP-GF30 with 316SS lug inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Optional accessory: Integrated position feedback with limit switches (sold separately)



d	Size	DN	PN	Cv-value	EPDM	USD	SP	weight
(mm)	(inch)	(mm)	(bar)	(L/min)	Part No.			(kg)
63	2	50	10	1470	163 578 142	Call	1	3.535
75	2 ½	65	10	2200	163 578 143	Call	1	3.698
90	3	80	10	3000	163 578 144	Call	1	3.929
110	4	100	10	6500	163 578 145	Call	1	4.834
140	5	125	10	11500	163 578 146	Call	1	6.348
160	6	150	10	16600	163 578 147	Call	1	8.109
225	8	200	10	39600	163 578 148	Call	1	9.353
280	10	250	10	55200	163 578 149	Call	1	21.210
315	12	300	10	80000	163 578 150	Call	1	27.746

FKM	USD	SP	weight
Part No.			(kg)
163 578 162	Call	1	3.535
163 578 163	Call	1	3.698
163 578 164	Call	1	3.929
163 578 165	Call	1	4.834
163 578 166	Call	1	6.348
163 578 167	Call	1	8.109
163 578 168	Call	1	9.353
163 578 169	Call	1	21.210
163 578 170	Call	1	27.746

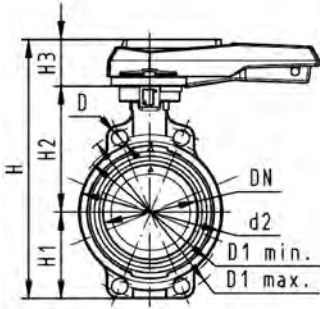
d2	D	D1	D3	H	H1	H2	H3	L	L1	L2	L3	L4	Q1	Q2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
160	UNC 5/8	120.6	160	273	77	134	62	45	78	112	179	165	40	
180	UNC 5/8	139.7	160	285	83	140	62	46	78	112	179	182	54	35
195	UNC 5/8	152.4	160	297	89	146	62	49	78	112	179	210	67	50
226	UNC 5/8	190.5	160	335	106	167	62	56	78	112	179	240	88	74
258	UNC 3/4	215.9	160	364	121	181	62	64	78	112	179	272	113	97
284	UNC 3/4	241.3	160	384	133	189	62	72	78	112	179	300	139	123
341	UNC 3/4	298.4	160	431	159	210	62	73	78	112	179	360	178	169
412	UNC 7/8	362.0	200	555	205	264	69	113	97	130	198	440	210	207
482	UNC 7/8	431.8	200	605	234	285	69	113	97	130	198	510	256	253



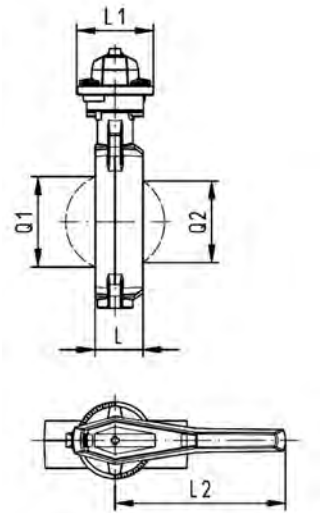
Type 563 Aqua Butterfly Valve PVC
Hand lever with ratchet settings

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
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version



d (mm)	Size (inch)	EPDM Part No.	USD
63	2	161 563 002	Call
75	2 ½	161 563 003	Call
90	3	161 563 004	Call
110	4	161 563 005	Call
140	5	161 563 006	Call
160	6	161 563 007	Call
225	8	161 563 008	Call
280	10	161 563 009	Call
315	12	161 563 010	Call



General Terms and Conditions of Sale

Always check for the most current General Terms and Conditions and Warranty Statement at www.gfpiping.com under "Price Lists."

GF Piping Systems USA Terms and Conditions (Rev. 2/2017) supersede all previous Terms and Conditions for Georg Fischer LLC and Georg Fischer Harvel LLC.

It is the responsibility of the Distributor, Dealer, or Agent to provide a current copy of these Terms and Conditions to the Consumers of Georg Fischer Piping products.

Acceptance of Terms and Conditions

Acceptance by Customer of GF Piping Systems USA, (hereinafter "Seller") offer of Products for sale is hereby expressly conditioned upon Customer's acceptance of these General Terms and Conditions of Sale and these General Terms and Conditions of Sale will be deemed accepted, as written, despite any language in Customer's purchase order and/or other documentation which is either conflicting or supplemental, unless promptly after this offer, Customer specifically advises Seller of each term and condition not so accepted and Seller accepts Customer's conflicting and/or supplemental term(s) in writing.

Order Acceptance

Seller reserves the right to accept or reject any order. Possession of a price list by Customer does not constitute an offer to sell.

Credit Approval and Minimum Order Charge

Customer credit approval is required prior to any shipment.

The minimum order is \$100 net.

List Price, Discount or Freight Charges

List prices, discount, and freight terms are subject to change without notice. All prices are F.O.B. Seller's factory or authorized warehouse at Seller's discretion.

Payment Terms

Net 30, from date the invoice is issued unless otherwise stated in a specific quotation. No unauthorized deductions allowed, such as deductions for pending Return Material Transactions that are subject to review. Seller reserves the right to apply a finance charge to the balance of any past-due invoice (over 30 days from date of invoice) at a rate of 1.5% per month, 18% per annum. Payment terms on fusion machine rentals net 30; see rental agreement for more details.

Taxes

Seller charges Customer for all sales, excise and other taxes and governmental charges Seller is required to collect from Customer. Customers claiming exemption must furnish documentation required by law which is satisfactory to Seller to permit Seller to refrain from collecting such charges.

WARRANTY AND LIMITATIONS

Seller's Products are carefully inspected for manufacturing defects; however, it is not always possible to detect hidden defects.

Seller warrants that its products shall conform to the description of such products as provided to Customer by Seller through Seller's catalog, analytical data or other literature. **THIS WARRANTY IS EXCLUSIVE, AND SELLER MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR COURSE OF DEALING OR USAGE OF TRADE – WHICH ARE HEREBY DISCLAIMED.** Seller's warranties made in connection with this sale shall not be effective if Seller has determined, in its sole discretion, that Customer has misused the products in any manner, has failed to use the products in accordance with industry standards and practices, or has failed to use the products in accordance with instructions, if any, furnished by Seller. **Seller does not warrant any Products obtained through an unauthorized Distributor, Dealer, or Agent.**

LIMITATIONS OF REMEDY

Seller's sole and exclusive liability and Customer's exclusive remedy with respect to products proved to Seller's satisfaction to be defective or nonconforming shall be repair or replacement of such products without charge or refund of the purchase price, in Seller's sole discretion, upon the return of such products in accordance with Seller's instructions. **SELLER SHALL NOT IN ANY EVENT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY KIND RESULTING FROM ANY USE OR FAILURE OF THE PRODUCTS, EVEN IF SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE INCLUDING, WITHOUT LIMITATION, LIABILITY FOR LOSS OF USE, LOSS OF WORK IN PROGRESS, DOWN TIME, LOSS OF REVENUE OR PROFITS, FAILURE TO REALIZE SAVINGS, LOSS OF PRODUCTS OF CUSTOMER OR OTHER USE OR ANY LIABILITY OF CUSTOMER TO A THIRD PARTY ON ACCOUNT OF SUCH LOSS, OR FOR ANY LABOR OR ANY OTHER EXPENSE, DAMAGE OR LOSS OCCASIONED BY SUCH PRODUCT INCLUDING PERSONAL INJURY OR PROPERTY DAMAGE.** Any and all claims of Customer against Seller must be brought within one (1) year of Seller's tender of delivery, regardless of their nature.

Order Changes or Cancellations

Cancellation or modifications of orders may be possible only with prior written consent from Seller. Since all orders are individually entered for processing immediately upon receipt, Seller reserves the right to charge back to the Customer costs incurred from either order cancellation or order modification. Seller also reserves the right to consider all order additions as new orders and subject to all terms and conditions.

Seller will not cancel orders for custom or non-cancelable products if Seller has already produced the product or incurred expenses toward producing the product at the time the Customer seeks to cancel.

Delivery

Seller disclaims liability for consequential damages from late deliveries unless seller assumes liability for such damages in writing when the order is placed. Further, Seller disclaims liability where delivery delays caused by strike, differences with workmen, or causes beyond Seller's control, including but not limited to fires, floods, accidents, government actions, shortages of labor, raw materials, production facilities, or transportation. Where delivery delays are caused by labor problems, Seller is not obligated to seek or obtain any settlement which, in Seller's judgment, is not in Seller's best interest.

Standard Packaging

Seller will accept orders from Customer exclusively in multiples of the standard packaging quantity or boxed quantity. Seller reserves the right to reject any order that is not a standard packaging or boxed quantity of a Product.

Freight

Continental US – Full freight will be paid on the following orders:

1. Pipe \$7,500 net or greater in one of the following categories:

- | | | |
|--------------------|--|------------------------------------|
| a. PPro-Seal | f. PVC and CPVC, including shapes and rods | j. LXT |
| b. Contain-It | g. PVC and CPVC, metric | k. Blazemaster |
| c. Fuseal (1½"-6") | h. Duct | l. PE 100 |
| d. SYGEF | i. CTS | m. COOL-FIT ABS |
| e. PROGEF | | n. COOL-FIT ABS Plus Pre-insulated |

Combination of products from one shipping point to meet freight allowance is at the sole discretion of the seller.

2. Fittings, Valves, & Actuation \$1,500 net or greater

Freight allowed orders will be sent by a designated carrier of Seller's choice. Additional charges will be invoiced to Customer for special handling and air freight when requested. Standard Pipe lengths require long truck beds for shipping and may be shipped separately from valves and/or fittings purchased on the same order. Valves and/or fittings will be shipped using practical shipping methods.

Freight will not be paid on the following orders:

- | | |
|--|--|
| a. Signet Product | f. Fuseal Large Diameter Pipe and Fittings 8" and larger |
| b. Custom Products | g. COOL-FIT ABS Lite Pipe |
| c. Heat Exchangers | h. Double-See |
| d. PVC and CPVC Fabricated Fittings 14" and larger | i. International Orders |
| e. Fuseal Squared, Tanks and Accessories, and Special Fabrications | j. Fusion Machines and Accessories |

Unless otherwise specified, shipments are surface, prepaid and added to invoice.

Mode of Shipment and Packaging

Seller reserves the right to ship orders in the most economical manner, as long as the product is shipped on or before the promised ship date. If product ships after the promised ship date, Seller may automatically adjust the shipping method to help improve delivery of the delayed shipment, at no additional cost.

If Seller pays freight, Seller may hold shipment until all items become available. Customer bears extra cost of non-standard packaging or handling requested by Customer.

Transfer of Ownership

All products are FOB Seller's facility and title of merchandise transfers when product is loaded onto carrier. Claims for damaged merchandise should be made to carrier by Customer.

Assignment. Customer may not assign its rights under or interest in any purchase order without the prior written consent of Seller. These terms and conditions of sale shall be binding upon and inure to the benefit of Customer and Seller, their successors and permitted assigns.

Technical Documentation and Intellectual Property. Unless specified otherwise, technical documents such as drawings, descriptions, illustrations and the like, constitute only an approximate guide. Seller reserves the right to make any changes considered necessary. Seller expressly reserves any and all intellectual property rights therein.

Non-Conforming Shipments

Customer must notify Seller in writing within 7 days after receipt of shipments not conforming with Customer's order, stating specifically Customer's claim of non-conformity, or Customer is deemed to accept the shipment as is. If Seller is satisfied the shipment is non-conforming, Seller will (i) credit Customer for the price of defective goods or goods shipped but not ordered (including allocated outbound and return freight) upon return of goods; (ii) promptly ship omitted items waiving Seller's new order charges. Customer is required to make timely payment to Seller of any amount which is undisputed or not subject to such claims.

Return of Goods for Credit

Seller accepts returns of certain Engineered Piping Products, Valve and Actuation Products, Signet Instrumentation Products, Waste and Containment Products, and Vinyl Piping Products for a standard restock charge of 25%. Pipe is not returnable. Products denoted with a caret (^) symbol in front of the part number in the current Master Distributor Price List have a 40% restock and products denoted with an asterisk (*) symbol are non-cancelable/non-returnable. Only products purchased within the past twelve (12) months, in original "like new" packaging (full carton quantities), of current design, and listed in the current Master Distributor Price List shall be considered for returns. All products qualifying for return are subject to review for marketability (quantities in question in relationship to historical stock movement) before issuance of a Return Material Authorization (RMA) number. Returns due to Seller's product warranty or order entry/shipping error will not be charged a restock fee.

Product for credit consideration should be returned to Seller's originating location. All returns are subject to inspection upon receipt. No credit will be issued until the returned material has been inspected, accepted, and processed. Customers will be contacted if quantity differences and/or non-acceptable material are found during inspection. Any credit issued will reflect only quantities actually received and accepted by Seller.

Disposition (return to Customer or scrap) of returned product not accepted back by Seller must be provided by Customer within 10 business days, otherwise it will be subject to disposal. All material returns must be accompanied by a valid Return Material Authorization (RMA) number. RMA numbers may be obtained from the Customer Service Department. When requesting a RMA, the original purchase order number and date of purchase must be provided.

All material returns must be received within thirty (30) days of the RMA issuance.

All material returns must be shipped freight prepaid. No collect shipments will be accepted by Seller. Restock charges and prepaid freight do not apply to warranty defective merchandise or returns due to Seller order entry or shipping errors.

Return of Goods for Warranty Evaluation

When requesting a RMA for material evaluation, Customer must first complete and submit a Material Safety Disclosure sheet and Request For Evaluation form obtained from Customer Service. Material arriving to Seller without a valid RMA number will be returned to the customer/distributor, freight collect. RMA numbers must be clearly referenced on all shipping documents and shipping containers.

GF Piping Systems

Our sales companies and representatives ensure local customer support in over 100 countries.

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