

# Vinyl Piping Systems Catalog

Effective 2017

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



# 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](http://www.gfpiping.com) for more information!

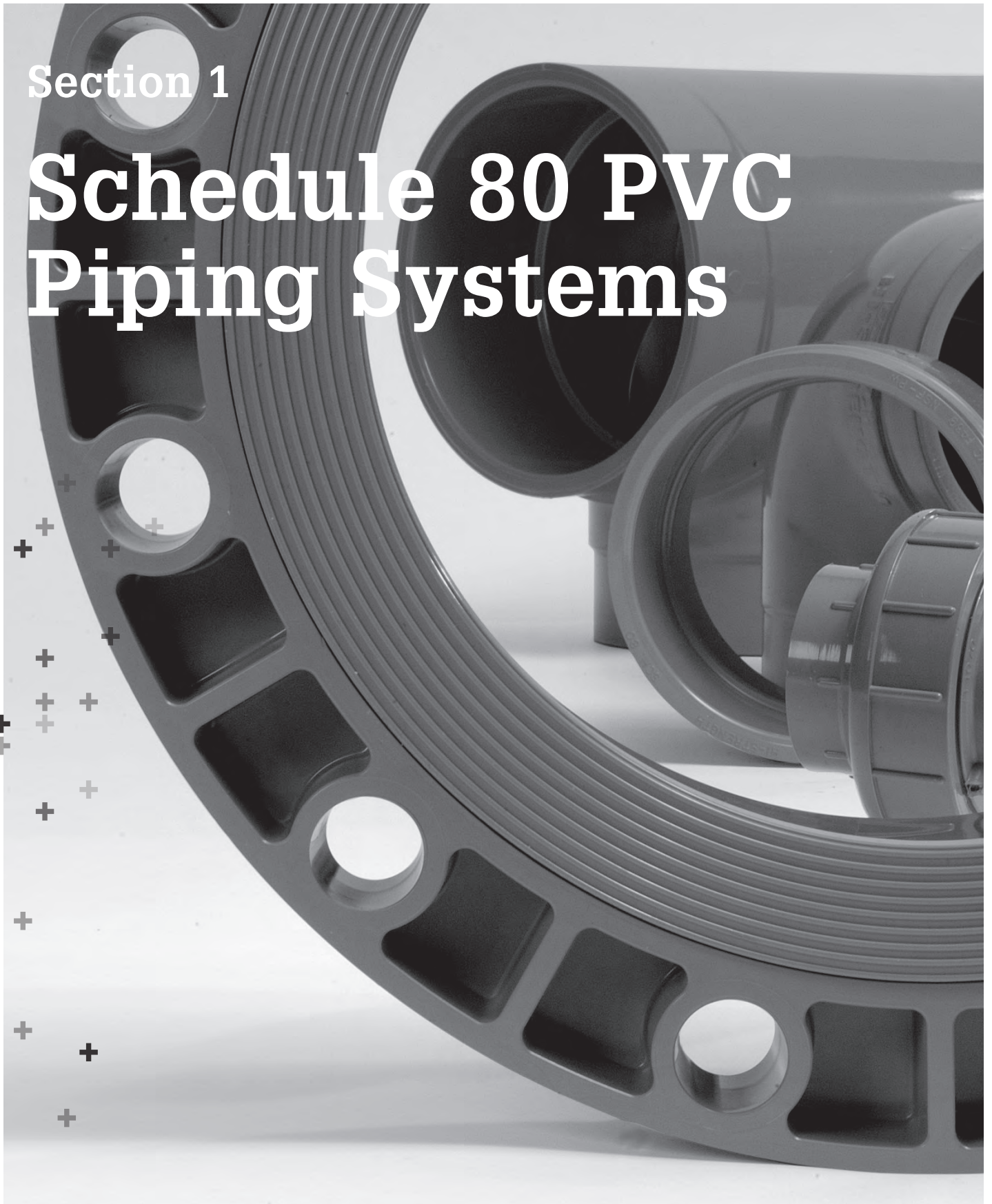
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effective August 2017

Section 1

# Schedule 80 PVC Piping Systems



## Glossary

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

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](http://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.**

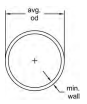
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# Specifications, Standards and Tolerances

## Specifications and Standards

NSF/ANSI Standard 14

NSF/ANSI Standard 61

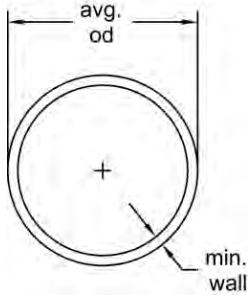
ASTM D 1784	:	Material PVC Type I, Grade I Gray (cell classification 12454)
ASTM D 1785	:	PVC Schedule 80 Pipe
ASTM D 2467	:	PVC Schedule 80 Socket & Threaded Fittings
ASTM D 2464	:	PVC Schedule 80 Threaded Fittings
ASTM F 1498	:	PVC Schedule 80 Taper Threads
ASTM D 2672	:	PVC Schedule 80 Tapered Sockets 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 : $\pm 0.03$
D	Outside Diameter : $\pm 0.06$
G, G1	Intersections of centerlines to bottom of socket; 90° Ells, Tees : up to 4" $\pm 0.03$ ; 6" and above $\pm 0.06$
GJ, GN	Intersections of centerlines to bottom of socket; 45° Wyes : up to 4" $\pm 0.03$ ; 6" and above $\pm 0.06$
H, HJ, HN	Intersections of centerlines to face of fitting; 90° Ells, 45° Ells, Tees, 45° Wyes : up to 4" $\pm 0.03$ ; 6" and above $\pm 0.06$
HL	Socket Bottom to Face of Fitting : up to 4" $\pm 0.03$ ; 6" and above $\pm 0.06$
J	Intersections of centerlines to bottom of socket; 45° & 30° Ells : up to 4" $\pm 0.03$ ; 6" and above $\pm 0.06$
L	Overall Length of fitting : $\pm 0.06$
N	Socket Bottom to Socket Bottom; Couplings, Unions : $\pm 0.06$
N1	Socket Bottom to Face of Flange : $\pm 0.06$
R	Thickness on Plugs, Flanges : $\pm 0.03$
T, T1	Effective Thread Length : Reference Only
W	Height of Cap : $\pm 0.06$



# Harvel® Industrial PVC Pressure Pipe

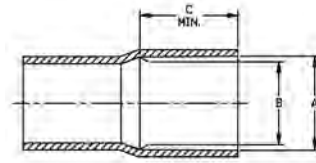


## Plain End Pipe - 20 ft lengths

- 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<sup>®</sup>-pw-G
- Non - CSA Approved

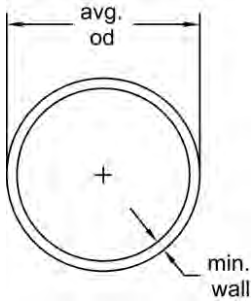
Size (inch)	P/L	Plain End Part No.	Lift Qty. (20ft Lgths) (ft)	Average O.D. (inch)	Min. Wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
1/2	H18	*H0800050PG2000	5700	0.840	0.147	0.202	850
3/4	H18	*H0800075PG2000	5260	1.050	0.154	0.273	690
1	H18	*H0800100PG2000	4280	1.315	0.179	0.402	630
1 1/4	H18	*H0800125PG2000	2360	1.660	0.191	0.554	520
1 1/2	H18	*H0800150PG2000	2060	1.900	0.200	0.673	470
2	H18	*H0800200PG2000	1660	2.375	0.218	0.932	400
2 1/2	H18	*H0800250PG2000	1080	2.875	0.276	1.419	420
3	H18	*H0800300PG2000	840	3.500	0.300	1.903	370
4	H18	*H0800400PG2000	520	4.500	0.337	2.782	320
6	H18	*H0800600PG2000	340	6.625	0.432	5.313	280
8	H18	*H0800800PG2000	220	8.625	0.500	8.058	250
10	H18	*H0801000PG2000	80	10.750	0.593	11.956	230
12	H18	*H0801200PG2000	60	12.750	0.687	16.437	230

## Belled End Pipe - 20 ft lengths



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

# Harvel® Industrial PLUS PVC Pressure Pipe

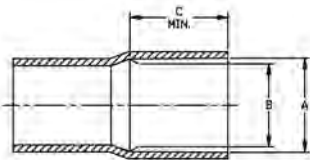


## Plain End Pipe - 20 ft lengths

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

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

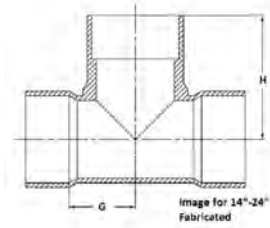
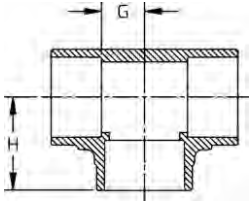
## Belled End Pipe - 20 ft lengths



Size (inch)	P/L	Belled End Part No.	A-Socket Entrance (Belled Pipe)	B-Socket Bottom (Belled Pipe)	C-Min. (Belled Pipe)
½	H50	* HX800050PG2000B	0.848±0.004	0.836±0.004	1.000
¾	H50	* HX800075PG2000B	1.058±0.004	1.046±0.004	1.250
1	H50	* HX800100PG2000B	1.325±0.005	1.310±0.005	1.500
1 ¼	H50	* HX800125PG2000B	1.670±0.005	1.655±0.005	1.750
1 ½	H50	* HX800150PG2000B	1.912±0.006	1.894±0.006	2.000
2	H50	* HX800200PG2000B	2.387±0.006	2.363±0.006	2.250
2 ½	H50	* HX800250PG2000B	2.889±0.007	2.861±0.007	2.500
3	H50	* HX800300PG2000B	3.516±0.008	3.484±0.008	3.250
3 ½	H50	* H0800350PG2000B	4.016±0.008	3.984±0.008	3.500
4	H50	* HX800400PG2000B	4.518±0.009	4.482±0.009	4.000
5	H50	* H0800500PG2000B	5.583±0.010	5.543±0.010	4.000
6	H50	* HX800600PG2000B	6.647±0.011	6.603±0.011	6.000
8	H50	* HX800800PG2000B	8.655±0.015	8.598±0.015	6.000
10	H50	* HX801000PG2000B	10.776±0.015	10.722±0.015	7.500
12	H50	* HX801200PG2000B	12.778±0.015	12.721±0.015	8.500
14	H50	* H0801400PG2000B	14.035±0.015	13.985±0.015	9.000
16	H50	* H0801600PG2000B	16.045±0.015	15.980±0.015	10.000
18	H50	* H0801800PG2000B	18.055±0.020	17.980±0.020	12.000
20	H50	* H0802000PG2000B	20.065±0.025	19.980±0.025	12.000
24	H50	* H0802400PG2000B	24.075±0.030	23.970±0.030	12.000

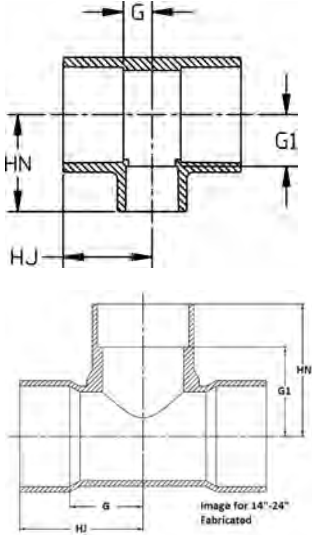
# Schedule 80 PVC Pressure Fittings

## Tee (S x S x S)



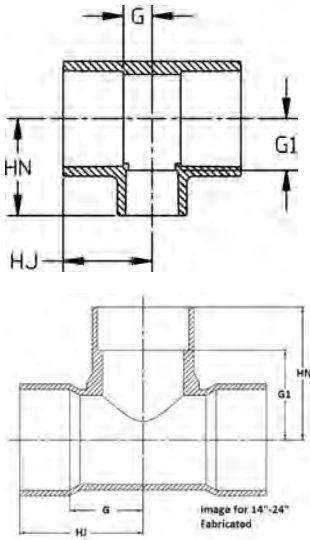
Size (inch)	P/L	Part No.	Pack Qty	H (inch)	G (inch)	Design
¼	608	* 801-002	50	0.95	0.27	HS
⅜	608	* 801-003	50	1.16	0.38	HS
½	608	801-005	25	1.41	0.51	SL
¾	608	801-007	25	1.60	0.58	SL
1	608	801-010	20	1.85	0.71	SL
1 ¼	608	801-012	10	2.17	0.91	SL
1 ½	608	801-015	10	2.43	1.04	SL
2	608	801-020	10	2.81	1.30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

**Reducing Tee (S x S x S)**



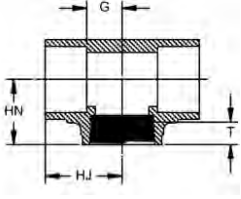
Size (inch)	P/L	Part No.	Pack Qty	HJ (inch)	HN (inch)	G (inch)	G1 (inch)	Design
¾ x ½	608	801-101	25	1.62	1.62	0.60	0.72	SL
1 x ½	608	801-130	25	1.87	1.64	0.72	0.74	SL
1 x ¾	608	801-131	20	1.86	1.89	0.72	0.75	SL
1 ¼ x ½	608	*801-166FB	20	1.99	2.35	0.73	1.47	BUSH
1 ¼ x ¾	608	*801-167FB	20	1.99	2.35	0.73	1.33	BUSH
1 ¼ x 1	608	801-168	20	2.01	2.05	0.73	0.91	SL
1 ½ x ½	608	801-209	5	1.92	1.91	0.53	1.03	SL
1 ½ x ¾	608	801-210	5	1.99	2.07	0.60	1.05	SL
1 ½ x 1	608	801-211	5	2.12	2.17	0.72	1.03	SL
1 ½ x 1 ¼	608	*801-212FB	5	2.44	2.74	1.04	1.47	BUSH
2 x ½	608	801-247	5	1.99	2.16	0.54	1.28	SL
2 x ¾	608	801-248	5	2.22	2.31	0.60	1.30	SL
2 x 1	608	801-249	5	2.24	2.42	0.72	1.27	SL
2 x 1 ¼	608	*801-250FB	5	2.81	3.11	1.30	1.84	BUSH
2 x 1 ½	608	801-251	5	2.54	2.66	1.03	1.27	SL
2 ½ x ½	608	*801-287FB	5	3.05	3.35	1.28	2.44	BUSH
2 ½ x ¾	608	*801-288FB	5	3.05	3.35	1.28	2.33	BUSH
2 ½ x 1	608	*801-289FB	5	3.05	3.36	1.28	2.22	BUSH
2 ½ x 1 ¼	608	*801-290FB	5	3.05	3.34	1.28	2.07	BUSH
2 ½ x 1 ½	608	*801-291FB	5	3.05	3.35	1.28	1.94	BUSH
2 ½ x 2	608	801-292	5	3.05	3.05	1.28	1.54	SL
3 x ½	608	*801-333FB	5	3.20	3.68	1.30	2.77	BUSH
3 x ¾	608	*801-334FB	5	3.20	3.68	1.30	2.66	BUSH
3 x 1	608	*801-335FB	5	3.20	3.69	1.30	2.55	BUSH
3 x 1 ¼	608	*801-336FB	5	3.20	3.67	1.30	2.40	BUSH
3 x 1 ½	608	*801-337FB	5	3.20	3.68	1.30	2.27	BUSH
3 x 2	608	801-338	5	3.20	3.39	1.30	1.87	SL
3 x 2 ½	608	*801-339FB	5	3.73	4.07	1.81	2.17	BUSH
4 x ½	608	*801-415FB	5	3.52	4.19	1.27	3.28	BUSH
4 x ¾	608	*801-416FB	5	3.52	4.19	1.27	3.17	BUSH
4 x 1	608	801-417	5	2.99	3.49	2.99	3.49	SL
4 x 1 ¼	608	*801-418FB	5	3.52	4.18	1.27	2.91	BUSH
4 x 1 ½	608	*801-419FB	5	3.52	4.19	1.27	2.78	BUSH
4 x 2	608	801-420	5	3.54	3.87	1.27	2.37	SL
4 x 2 ½	608	*801-421FB	5	4.14	4.62	1.85	2.73	BUSH
4 x 3	608	801-422	5	4.13	4.26	1.85	2.35	SL
5 x ½	H02	*801-484S	1	5.81	6.91	3.16	5.53	SL
5 x 3	H02	*801-488S	1	5.81	6.50	3.16	4.63	SL
5 x 4	H02	*801-490S	1	5.81	6.16	3.16	3.91	SL
6 x ½	608	*801-523FB	2	6.56	7.42	3.56	6.52	BUSH
6 x ¾	608	*801-524FB	2	6.56	7.43	3.49	6.41	BUSH
6 x 1	608	*801-525FB	2	6.56	7.44	3.49	6.29	BUSH
6 x 1 ¼	608	*801-526FB	2	6.56	7.42	3.49	6.15	BUSH
6 x 1 ½	608	*801-527FB	2	6.56	7.42	3.49	6.02	BUSH
6 x 2	608	*801-528FB	2	6.58	7.17	3.49	5.61	BUSH
6 x 2 ½	608	*801-529FB	2	6.56	7.52	3.49	5.62	BUSH
6 x 3	608	*801-530FB	2	6.56	7.21	3.49	5.25	BUSH
6 x 4	608	801-532	2	6.57	6.80	3.49	4.47	HS
6 x 5	H04	*801-533FS	1	9.00	9.50	5.75	6.50	FAB
8 x 4	608	801-582	2	8.41	8.53	4.29	6.30	SL
8 x 5	H04	*801-583FS	1	10.50	10.44	6.25	7.44	FAB
8 x 6	608	801-585	1	7.65	7.54	3.55	4.63	SL
10 x 1 ½	A33	801-618N	1	10.75	12.45	5.75	11.04	FAB
10 x 2	A33	*801-619N	1	10.75	11.50	5.75	9.50	FAB
10 x 3	A33	*801-621N	1	10.75	11.50	5.25	9.50	FAB
10 x 4	A33	*801-623N	1	10.75	11.50	5.75	9.50	FAB
10 x 6	602	*801-626FB	1	10.83	11.43	5.78	8.33	BUSH
10 x 6	A33	*801-626N	1	11.88	12.50	6.88	9.50	FAB
10 x 8	602	*801-628FB	1	10.83	11.46	5.78	7.36	BUSH
10 x 8	A33	*801-628N	1	13.00	13.50	8.00	9.50	FAB
12 x 2	A33	*801-659N	1	12.00	12.75	6.00	10.75	FAB

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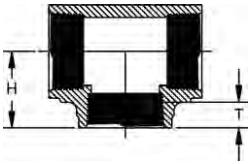
Size (inch)	P/L	Part No.	Pack Qty	HJ (inch)	HN (inch)	G (inch)	G1 (inch)	Design
12 x 3	A33	* 801-661N	1	12.00	12.75	6.00	10.75	FAB
12 x 4	A33	* 801-663N	1	12.00	12.75	6.00	10.75	FAB
12 x 6	A33	* 801-666N	1	13.13	13.75	7.13	10.75	FAB
12 x 8	602	* 801-668FB	1	12.99	13.67	6.94	9.58	BUSH
12 x 8	A33	* 801-668N	1	14.13	14.75	8.13	10.75	FAB
12 x 10	602	* 801-670FB	1	12.99	13.68	6.94	8.57	BUSH
12 x 10	A33	* 801-670N	1	15.13	15.75	9.13	10.75	FAB
14 x 2	A33	* 801-692N	1	13.13	13.50	6.13	11.50	FAB
14 x 3	A33	* 801-694N	1	12.63	13.50	6.13	11.50	FAB
14 x 4	A33	* 801-696N	1	13.13	13.50	6.13	11.50	FAB
14 x 6	A33	* 801-698N	1	14.25	14.50	7.25	11.50	FAB
14 x 8	A33	* 801-700N	1	15.25	15.50	8.25	11.50	FAB
14 x 10	A33	* 801-702N	1	16.25	16.50	9.25	11.50	FAB
14 x 12	A33	* 801-704N	1	17.25	18.50	10.25	12.50	FAB
16 x 2	A33	* 801-726N	1	14.38	14.75	6.38	12.75	FAB
16 x 3	A33	* 801-728N	1	14.38	14.75	6.38	12.75	FAB
16 x 4	A33	* 801-730N	1	14.38	14.75	6.38	12.75	FAB
16 x 6	A33	* 801-732N	1	15.50	15.75	7.50	12.75	FAB
16 x 8	A33	* 801-734N	1	16.50	16.75	8.50	12.75	FAB
16 x 10	A33	* 801-736N	1	17.50	17.75	9.50	12.75	FAB
16 x 12	A33	* 801-738N	1	18.50	19.75	10.50	13.75	FAB
16 x 14	A33	* 801-740N	1	19.13	20.75	11.13	13.75	FAB
18 x 4	A33	* 801-784N	1	15.63	16.00	6.63	14.00	FAB
18 x 6	A33	* 801-786N	1	16.75	17.00	7.75	14.00	FAB
18 x 8	A33	* 801-788N	1	17.75	18.00	8.75	14.00	FAB
18 x 10	A33	* 801-790N	1	18.75	19.00	9.75	14.00	FAB
18 x 12	A33	* 801-792N	1	19.75	21.00	10.75	15.00	FAB
18 x 14	A33	* 801-794N	1	20.38	22.00	11.38	15.00	FAB
18 x 16	A33	* 801-796N	1	21.38	24.00	12.38	16.00	FAB
20 x 4	A33	* 801-814N	1	16.88	17.25	6.88	15.25	FAB
20 x 6	A33	* 801-816N	1	18.00	18.25	8.00	15.25	FAB
20 x 8	A33	* 801-818N	1	19.00	19.25	9.00	15.25	FAB
20 x 10	A33	* 801-820N	1	20.00	20.25	10.00	15.25	FAB
20 x 12	A33	* 801-822N	1	21.00	22.25	11.00	16.25	FAB
20 x 14	A33	* 801-824N	1	21.63	23.25	11.63	16.25	FAB
20 x 16	A33	* 801-826N	1	22.63	25.25	12.63	17.25	FAB
20 x 18	A33	* 801-828N	1	23.63	27.25	13.63	18.25	FAB
24 x 4	A33	* 801-904N	1	19.38	19.50	7.38	17.50	FAB
24 x 6	A33	* 801-906N	1	20.50	20.50	8.50	17.50	FAB
24 x 8	A33	* 801-908N	1	21.50	21.50	9.50	17.50	FAB
24 x 10	A33	* 801-910N	1	22.50	22.50	10.50	17.50	FAB
24 x 12	A33	* 801-912N	1	23.50	24.50	11.50	18.50	FAB
24 x 14	A33	* 801-914N	1	24.13	25.50	12.13	18.50	FAB
24 x 16	A33	* 801-916N	1	25.13	27.50	13.13	19.50	FAB
24 x 18	A33	* 801-918N	1	26.13	30.50	14.13	20.50	FAB
24 x 20	A33	* 801-920N	1	27.13	32.50	15.13	20.50	FAB

**Tee (S x S x FPT)**



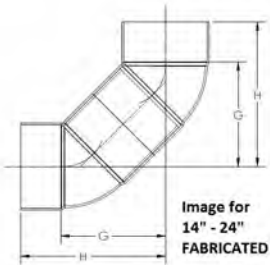
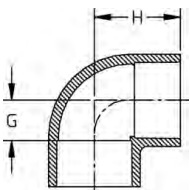
Size (inch)	P/L	Part No.	Pack Qty	HJ (inch)	HN (inch)	G (inch)	T (inch)	Design
1/2	608	<b>802-005</b>	25	1.41	1.30	0.53	0.81	HS
3/4	608	<b>802-007</b>	25	1.60	1.37	0.60	0.71	HS
1	608	<b>802-010</b>	15	1.83	1.73	0.69	0.99	HS
1 1/2	608	<b>802-015</b>	5	2.41	2.08	1.02	1.04	HS
2	608	<b>802-020</b>	5	2.79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

**Tee (FPT x FPT x FPT)**



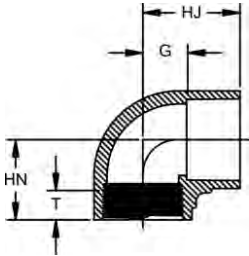
Size (inch)	P/L	Part No.	Pack Qty	H (inch)	T (inch)	Design
1/4	608	<b>^ 805-002</b>	50	0.94	0.59	HS
3/8	608	<b>^ 805-003</b>	50	1.01	0.60	HS
1/2	608	<b>^ 805-005</b>	25	1.26	0.76	HS
3/4	608	<b>^ 805-007</b>	25	1.36	0.72	HS
1	608	<b>^ 805-010</b>	15	1.79	0.99	HS
1 1/4	608	<b>^ 805-012</b>	10	1.93	1.01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

**90° Ell (S x S)**



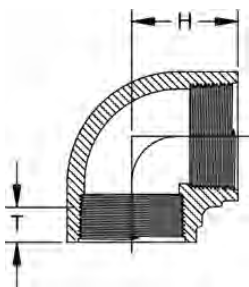
Size (inch)	P/L	Part No.	Pack Qty	H (inch)	G (inch)	Design
1/4	608	<b>* 806-002</b>	50	0.96	0.35	HS
3/8	608	<b>* 806-003</b>	50	1.15	0.39	HS
1/2	608	<b>806-005</b>	25	1.41	0.51	SL
3/4	608	<b>806-007</b>	25	1.60	0.57	SL
1	608	<b>806-010</b>	10	1.83	0.68	SL
1 1/4	608	<b>806-012</b>	10	2.18	0.90	SL
1 1/2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

**90° Ell (S x FPT)**



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

**90° Ell (FPT x FPT)**



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

**45° Ell (S x S)**

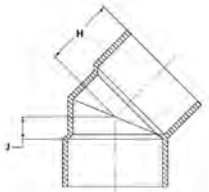
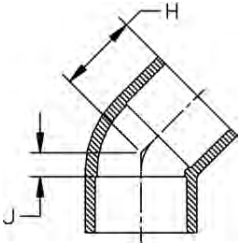
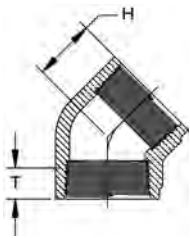


Image for 14"-24"  
Fabricated

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

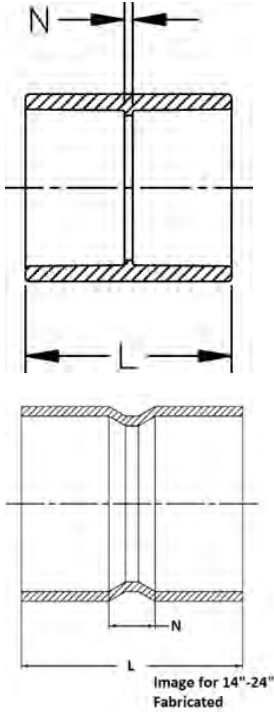
**45° Ell (FPT x FPT)**



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



**Coupling (S x S)**



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

**Reducing Coupling (S x S)**

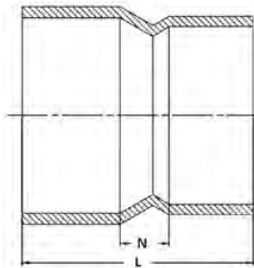
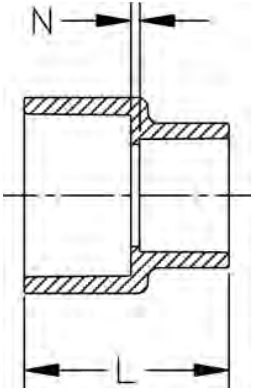


Image for 14"-24"  
Fabricated

Size (inch)	P/L	Part No.	Pack Qty	L (inch)	N (inch)	Design
¾ x ½	608	<b>829-101</b>	20	2.13	0.13	HS
1 x ½	608	<b>829-130</b>	25	2.17	0.12	HS
1 x ¾	608	<b>829-131</b>	25	2.26	0.11	HS
1 ¼ x 1	608	<b>829-168</b>	10	2.52	0.10	HS
1 ½ x ½	608	<b>* 829-209FB</b>	10	2.94	0.66	BUSH
1 ½ x ¾	608	<b>829-210</b>	10	2.50	0.09	BUSH
1 ½ x 1	608	<b>829-211</b>	10	2.65	0.11	HS
1 ½ x 1 ¼	608	<b>829-212</b>	10	2.82	0.09	HS
2 x ½	608	<b>* 829-247FB</b>	5	3.44	0.87	BUSH
2 x ¾	608	<b>829-248</b>	5	3.14	0.34	HS
2 x 1	608	<b>829-249</b>	5	3.15	0.32	HS
2 x 1 ¼	608	<b>829-250</b>	5	3.05	0.14	HS
2 x 1 ½	608	<b>829-251</b>	5	3.06	0.07	HS
2 ½ x 1 ½	608	<b>829-291</b>	5	3.36	0.14	HS
2 ½ x 2	608	<b>* 829-292FB</b>	5	4.08	0.66	BUSH
3 x 1	608	<b>* 829-335FB</b>	5	4.56	1.53	BUSH
3 x 1 ¼	608	<b>* 829-336FB</b>	5	4.29	1.07	FAB
3 x 1 ½	608	<b>* 829-337FB</b>	5	4.58	1.15	BUSH
3 x 2	608	<b>829-338</b>	5	3.61	0.17	HS
3 x 2 ½	608	<b>* 829-339FB</b>	5	4.42	0.63	BUSH
4 x 2	608	<b>* 829-420FB</b>	5	4.94	1.08	BUSH
4 x 3	608	<b>829-422</b>	5	4.38	0.22	HS
5 x 4	H04	<b>* 829-490FS</b>	1	7.75	2.50	FAB
6 x 2	608	<b>* 829-528FB</b>	2	10.61	4.60	BUSH
6 x 4	608	<b>829-532</b>	2	10.17	3.46	HS
8 x 4	608	<b>* 829-582FB</b>	2	9.81	3.53	BUSH
8 x 5	H04	<b>* 829-583FS</b>	1	14.69	7.44	FAB
8 x 6	608	<b>829-585</b>	2	9.18	2.11	HS
10 x 4	A33	<b>* 829-623N</b>	1	17.00	10.00	FAB
10 x 6	602	<b>* 829-626FB</b>	1	11.42	3.29	BUSH
10 x 6	A33	<b>* 829-626N</b>	1	13.00	5.00	FAB
10 x 8	602	<b>* 829-628FB</b>	1	11.45	2.32	BUSH
10 x 8	A33	<b>* 829-628N</b>	1	12.75	3.75	FAB
12 x 4	A33	<b>* 829-663N</b>	1	26.25	18.25	FAB
12 x 6	A33	<b>* 829-666N</b>	1	20.50	11.50	FAB
12 x 8	602	<b>* 829-668FB</b>	1	13.54	3.41	BUSH
12 x 8	A33	<b>* 829-668N</b>	1	15.50	5.50	FAB
12 x 10	602	<b>* 829-670FB</b>	1	13.24	2.13	BUSH
12 x 10	A33	<b>* 829-670N</b>	1	15.00	4.00	FAB
14 x 4	A33	<b>* 829-696N</b>	1	21.00	3.00	FAB
14 x 6	A33	<b>* 829-698N</b>	1	31.00	21.00	FAB
14 x 8	A33	<b>* 829-700N</b>	1	21.00	10.00	FAB
14 x 10	A33	<b>* 829-702N</b>	1	17.00	5.00	FAB
14 x 12	A33	<b>* 829-704N</b>	1	16.50	3.50	FAB
16 x 4	A33	<b>* 829-730N</b>	1	16.50	3.50	FAB
16 x 6	A33	<b>* 829-732N</b>	1	16.50	4.50	FAB
16 x 8	A33	<b>* 829-734N</b>	1	18.05	5.00	FAB
16 x 10	A33	<b>* 829-736N</b>	1	19.50	6.50	FAB
16 x 12	A33	<b>* 829-738N</b>	1	19.25	5.25	FAB
16 x 14	A33	<b>* 829-740N</b>	1	19.50	4.50	FAB
18 x 4	A33	<b>* 829-784N</b>	1	48.50	37.50	FAB
18 x 6	A33	<b>* 829-786N</b>	1	36.00	24.00	FAB
18 x 8	A33	<b>* 829-788N</b>	1	42.50	29.50	FAB
18 x 10	A33	<b>* 829-790N</b>	1	33.50	19.50	FAB
18 x 12	A33	<b>* 829-792N</b>	1	22.00	7.00	FAB
18 x 14	A33	<b>* 829-794N</b>	1	22.25	6.25	FAB
18 x 16	A33	<b>* 829-796N</b>	1	21.75	4.75	FAB
20 x 4	A33	<b>* 829-814N</b>	1	60.50	48.50	FAB
20 x 6	A33	<b>* 829-816N</b>	1	55.50	42.50	FAB
20 x 8	A33	<b>* 829-818N</b>	1	56.25	42.25	FAB
20 x 10	A33	<b>* 829-820N</b>	1	47.25	32.25	FAB

table continued on the next page

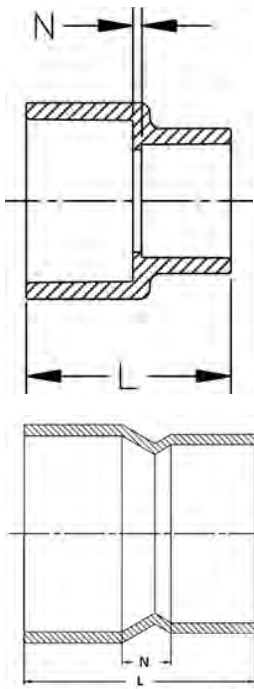
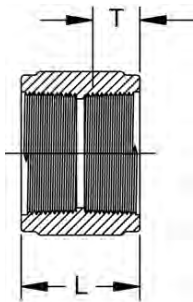


Image for 14"-24"  
Fabricated

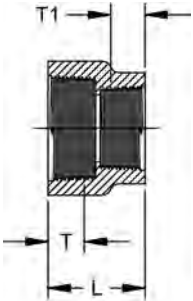
Size (inch)	P/L	Part No.	Pack Qty	L (inch)	N (inch)	Design
20 x 12	A33	* 829-822N	1	37.00	21.00	FAB
20 x 14	A33	* 829-824N	1	37.25	20.25	FAB
20 x 16	A33	* 829-826N	1	24.50	6.50	FAB
20 x 18	A33	* 829-828N	1	25.25	6.25	FAB
24 x 4	A33	* 829-904N	1	66.00	52.00	FAB
24 x 6	A33	* 829-906N	1	61.00	46.00	FAB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

### Coupling (FPT x FPT)



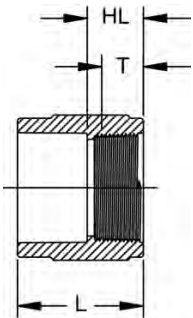
Size (inch)	P/L	Part No.	Pack Qty	L (inch)	T (inch)	Design
¼	608	* 830-002	50	1.29	0.61	HS
⅜	608	* 830-003	50	1.35	0.62	HS
½	608	^ 830-005	25	1.68	0.77	SL
¾	608	^ 830-007	20	1.75	0.80	SL
1	608	^ 830-010	25	2.13	0.99	SL
1 ¼	608	^ 830-012	10	2.19	1.03	SL
1 ½	608	^ 830-015	10	2.22	1.03	SL
2	608	^ 830-020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

**Reducing Coupling (FPT x FPT)**



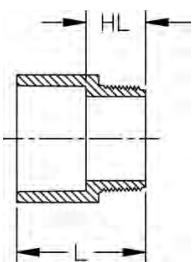
Size (inch)	P/L	Part No.	Pack Qty	L (inch)	T (inch)	T1 (inch)	Design
3/8 x 1/4	608	* 830-052	50	1.29	0.60	0.59	HS
1/2 x 1/4	608	* 830-072	50	1.44	0.75	0.59	HS
1/2 x 3/8	608	* 830-073	50	1.46	0.74	0.60	HS
3/4 x 1/2	608	^ 830-101	25	1.68	0.78	0.78	HS
1 x 1/2	608	^ 830-130	25	1.84	0.98	0.77	BUSH
1 x 3/4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

**Female Adapter (S x FPT)**



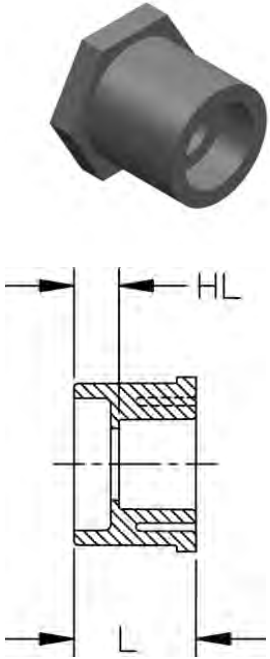
Size (inch)	P/L	Part No.	Pack Qty	HL (inch)	L (inch)	T (inch)	Design
1/4	608	* 835-002	50	0.75	1.43	0.58	HS
3/8	608	* 835-003	50	0.75	1.56	0.62	HS
1/2	608	835-005	25	0.91	1.80	0.75	HS
3/4	608	835-007	25	0.95	1.96	0.79	HS
1	608	835-010	25	1.11	2.27	0.98	HS
1 1/4	608	835-012	10	1.18	2.44	1.02	HS
1 1/2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

**Male Adapter (S x MPT)**



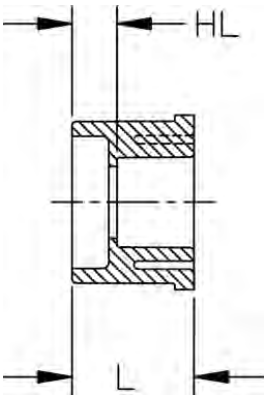
Size (inch)	P/L	Part No.	Pack Qty	HL (inch)	L (inch)	Design
1/2	608	836-005	50	0.94	1.85	SL
3/4	608	836-007	25	1.05	2.03	HS
1	608	836-010	25	1.22	2.38	HS
1 1/4	608	836-012	15	1.28	2.56	HS
1 1/2	608	836-015	10	1.30	2.69	HS
2	608	836-020	5	1.32	2.83	HS
2 1/2	608	836-025	5	1.87	3.70	HS
3	608	836-030	5	1.99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

**Flush Style Reducer Bushing (SPG x S)**



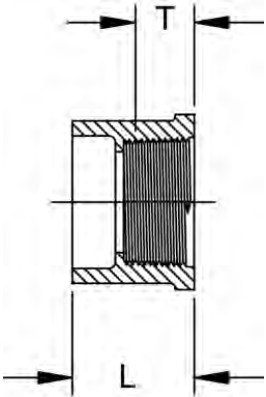
Size (inch)	P/L	Part No.	Pack Qty	HL (inch)	L (inch)	Design
½ x ¼	608	* 837-072	50	0.47	1.15	FLUSH
½ x ⅜	608	* 837-073	50	0.33	1.09	FLUSH
¾ x ½	608	837-101	50	0.42	1.30	FLUSH
1 x ½	608	837-130	50	0.55	1.44	FLUSH
1 x ¾	608	837-131	50	0.41	1.43	FLUSH
1 ¼ x ½	608	837-166	25	0.66	1.55	FLUSH
1 ¼ x ¾	608	837-167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

table continued on the next page



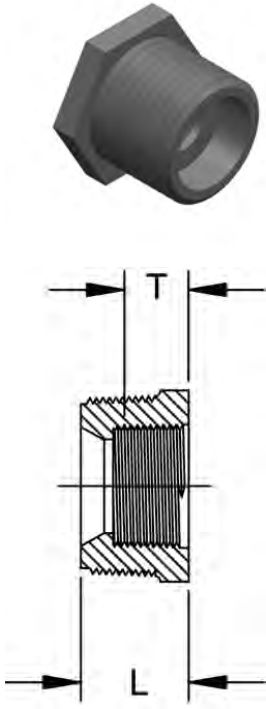
Size (inch)	P/L	Part No.	Pack Qty	HL (inch)	L (inch)	Design
20 x 18	A33	* 837-828N	1	1.50	10.50	FAB
24 x 4	A33	* 837-904N	1	10.50	12.50	FAB
24 x 6	A33	* 837-906N	1	9.50	12.50	FAB
24 x 8	A33	* 837-908N	1	8.50	12.50	FAB
24 x 10	A33	* 837-910N	1	7.50	12.50	FAB
24 x 12	A33	* 837-912N	1	6.50	12.50	FAB
24 x 14	A33	* 837-914N	1	5.50	12.50	FAB
24 x 16	A33	* 837-916N	1	4.50	12.50	FAB
24 x 18	A33	* 837-918N	1	3.50	12.50	FAB
24 x 20	A33	* 837-920N	1	2.50	12.50	FAB

**Flush Style Reducer Bushing (SPG x FPT)**



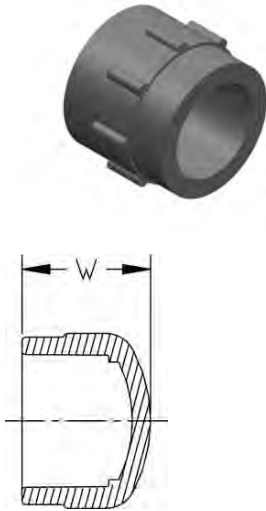
Size (inch)	P/L	Part No.	Pack Qty	L (inch)	T (inch)	Design
3/8 x 1/4	608	* 838-052E	50	1.59	0.60	Extended
1/2 x 1/4	608	* 838-072	50	1.14	0.61	FLUSH
1/2 x 3/8	608	* 838-073	50	1.21	0.60	FLUSH
3/4 x 1/4	608	* 838-098	50	1.13	0.61	FLUSH
3/4 x 1/2	608	838-101	50	1.28	0.77	FLUSH
1 x 1/2	608	838-130	50	1.42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

**Flush Style Reducer Bushing (MPT x FPT)**



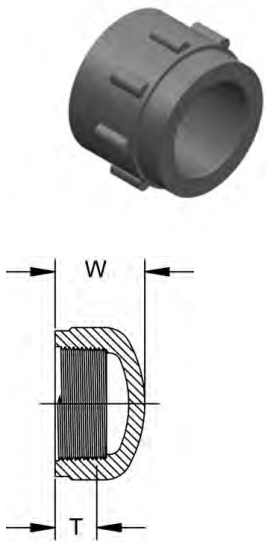
Size (inch)	P/L	Part No.	Pack Qty	L (inch)	T (inch)	Style
3/8 x 1/4	608	* 839-052	50	0.80	0.60	FLUSH
1/2 x 1/4	608	* 839-072	50	0.95	0.60	FLUSH
1/2 x 3/8	608	* 839-073	50	0.96	0.61	FLUSH
3/4 x 1/4	608	* 839-098	50	1.01	0.61	FLUSH
3/4 x 3/8	608	* 839-099	50	1.02	0.61	FLUSH
3/4 x 1/2	608	^ 839-101	50	1.08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

**Cap (S)**



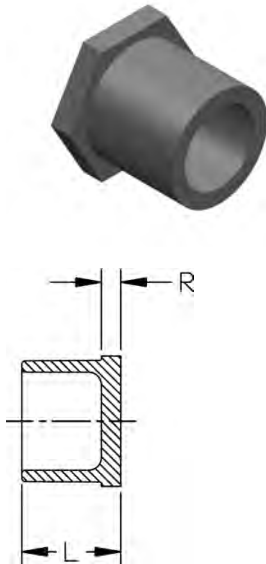
Size (inch)	P/L	Part No.	Pack Qty	W (inch)	Design
1/4	608	* 847-002	50	0.96	HS
3/8	608	* 847-003	50	1.11	HS
1/2	608	847-005	50	1.30	HS
3/4	608	847-007	50	1.46	HS
1	608	847-010	25	1.66	HS
1 1/4	608	847-012	15	1.89	HS
1 1/2	608	847-015	10	2.08	HS
2	608	847-020	5	2.32	HS
2 1/2	608	847-025	5	2.61	HS
3	608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

**Cap (FPT)**



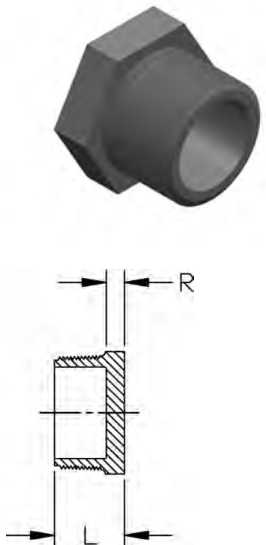
Size (inch)	P/L	Part No.	Pack Qty	W (inch)	T (inch)	Design
¼	608	* 848-002	50	0.93	0.54	HS
⅜	608	* 848-003	50	0.94	0.62	HS
½	608	^ 848-005	50	1.14	0.74	HS
¾	608	^ 848-007	25	1.25	0.80	HS
1	608	^ 848-010	25	1.51	0.97	HS
1 ¼	608	^ 848-012	15	1.59	1.00	HS
1 ½	608	^ 848-015	10	1.70	1.01	HS
2	608	^ 848-020	5	1.82	1.06	HS
2 ½	608	^ 848-025	5	2.61	1.45	HS
3	608	^ 848-030	5	2.80	1.83	HS
4	608	^ 848-040	5	3.16	1.80	HS

**Plug (SPG)**



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

**Plug (MPT)**



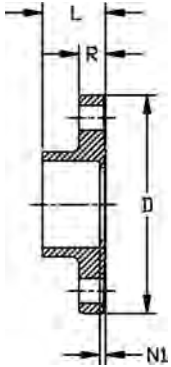
Size (inch)	P/L	Part No.	Pack Qty	L (inch)	R (inch)	Design
¼	608	* 850-002	50	0.81	0.22	HS
⅜	608	* 850-003	50	0.83	0.22	HS
½	608	850-005	50	0.98	0.22	HS
¾	608	850-007	50	1.06	0.25	HS
1	608	850-010	25	1.24	0.27	HS
1 ¼	608	850-012	25	1.33	0.31	HS
1 ½	608	850-015	20	1.38	0.34	HS
2	608	850-020	10	1.47	0.39	HS
2 ½	608	850-025	10	1.95	0.38	HS
3	608	850-030	5	1.98	0.38	HS
4	608	850-040	5	2.16	0.39	HS
6	A33	* 850-060N	1	2.00	0.75	FAB
8	A33	* 850-080N	1	2.00	0.75	FAB
10	A33	* 850-100N	1	2.00	0.75	FAB
12	A33	* 850-120N	1	2.00	0.75	FAB



**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)

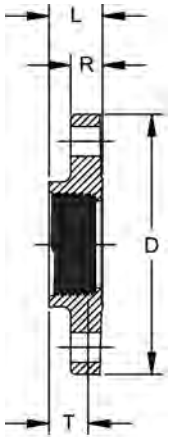


Size (inch)	P/L	Part No.	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	N1 (inch)	R (inch)	Design
½	608	<b>851-005</b>	5	4	½	2.38	3.50	1.02	0.13	0.39	HC
¾	608	<b>851-007</b>	5	4	½	2.75	3.89	1.14	0.13	0.45	HC
1	608	<b>851-010</b>	5	4	½	3.13	4.28	1.30	0.16	0.52	HC
1 ¼	608	<b>851-012</b>	5	4	½	3.50	4.64	1.45	0.14	0.59	HC
1 ½	608	<b>851-015</b>	5	4	½	3.88	5.01	1.54	0.16	0.68	HC
2	608	<b>851-020</b>	5	4	⅝	4.75	6.01	1.73	0.16	0.69	HC
2 ½	608	<b>851-025</b>	5	4	⅝	5.50	7.00	1.99	0.17	0.75	HC
3	608	<b>851-030</b>	5	4	⅝	6.00	7.51	2.46	0.57	1.10	HC
4	608	<b>851-040</b>	5	8	⅝	7.50	9.04	2.79	0.52	1.19	HC
5	H02	<b>*851-050S</b>	5	8	¾	8.50	10.13	3.25	0.25	1.00	HC
6	608	<b>851-060</b>	2	8	¾	9.50	11.13	3.88	0.36	1.38	HC
8	608	<b>851-080</b>	2	8	¾	11.75	13.54	4.90	0.42	1.45	HC

**Flange - One Piece (FPT)**



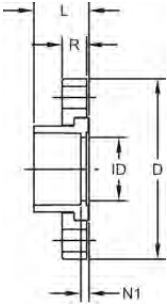
- ANSI 150 Class according to ANSI B16.5
- 75 psi @ 73°F (5.2 bar @ 22.7°C)
- HC = Honeycomb (Face)



Size (inch)	P/L	Part No.	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	T (inch)	R (inch)	Design
½	608	<b>^ 852-005</b>	5	4	½	2.38	3.51	0.89	0.77	0.39	HC
¾	608	<b>^ 852-007</b>	5	4	½	2.75	3.89	0.91	0.79	0.45	HC
1	608	<b>^ 852-010</b>	5	4	½	3.13	4.28	1.13	1.00	0.53	HC
1 ¼	608	<b>^ 852-012</b>	5	4	½	3.50	4.62	1.20	1.06	0.58	HC
1 ½	608	<b>^ 852-015</b>	5	4	½	3.88	4.99	1.19	1.03	0.68	HC
2	608	<b>^ 852-020</b>	5	4	⅝	4.75	6.02	1.22	1.06	0.70	HC
2 ½	608	<b>^ 852-025</b>	5	4	⅝	5.50	7.00	1.72	1.53	0.75	HC
3	608	<b>^ 852-030</b>	5	4	⅝	6.00	7.50	2.15	1.63	1.15	HC
4	608	<b>^ 852-040</b>	5	8	⅝	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)



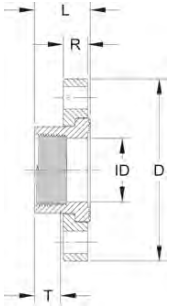
Size (inch)	P/L	Part No.
1/2	608	<b>854-005</b>
3/4	608	<b>854-007</b>
1	608	<b>854-010</b>
1 1/4	608	<b>854-012</b>
1 1/2	608	<b>854-015</b>
2	608	<b>854-020</b>
2 1/2	608	<b>854-025</b>
3	608	<b>854-030</b>
4	608	<b>854-040</b>
5	H02	<b>*854-050S</b>
6	608	<b>854-060</b>
8	608	<b>854-080</b>
10	602	<b>854-100</b>
12	602	<b>854-120</b>
14	A33	<b>*854-140N</b>
16	A33	<b>*854-160N</b>
18	A33	<b>*854-180N</b>
20	A33	<b>*854-200N</b>
24	A33	<b>*854-240N</b>

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)

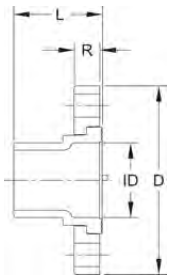


Size (inch)	P/L	Part No.	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	T (inch)	R (inch)	ID (inch)	Design
½	608	^ 855-005	5	4	½	2.38	3.53	1.10	0.79	0.57	0.63	HC
¾	608	^ 855-007	5	4	½	2.75	3.87	1.23	0.82	0.59	0.83	HC
1	608	^ 855-010	5	4	½	3.13	4.25	1.39	1.01	0.66	1.06	HC
1 ¼	608	^ 855-012	5	4	½	3.50	4.62	1.50	1.02	0.69	1.38	HC
1 ½	608	^ 855-015	5	4	½	3.88	5.01	1.67	1.06	0.75	1.61	HC
2	608	^ 855-020	5	4	¾	4.75	6.02	1.82	1.09	0.82	2.08	HC
2 ½	608	^ 855-025	5	4	¾	5.50	7.01	2.13	1.58	0.98	2.50	HC
3	608	^ 855-030	5	4	¾	6.00	7.50	2.36	1.71	1.02	3.08	HC
4	608	^ 855-040	5	8	¾	7.50	8.99	2.78	1.72	1.10	4.09	HC

**Flange - Van Stone (SPG)**



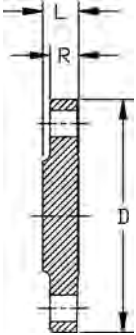
- ANSI 150 Class according to ANSI B16.5
- 1/2" - 12" pressure rating is 150 psi @ 73°F (10.3 bar @ 22.7°C)
- 14" - 24" pressure rating is 100 psi @ 73°F (6.9 bar @ 22.7°C) - Steel Ring
- HC = Honeycomb (Face)



Size (inch)	P/L	Part No.	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	R (inch)	ID (inch)	Design
½	608	856-005	5	4	½	2.38	3.53	1.72	0.57	0.84	HC
¾	608	856-007	5	4	½	2.75	3.87	1.85	0.59	1.05	HC
1	608	856-010	5	4	½	3.13	4.25	2.10	0.66	1.32	HC
1 ¼	608	856-012	5	4	½	3.50	4.62	2.28	0.69	1.66	HC
1 ½	608	856-015	5	4	½	3.88	5.01	2.48	0.75	1.90	HC
2	608	856-020	5	4	¾	4.75	6.02	2.80	0.82	2.38	HC
2 ½	608	856-025	5	4	¾	5.50	7.01	3.27	0.98	2.86	HC
3	608	856-030	5	4	¾	6.00	7.50	3.60	1.02	3.49	HC
4	608	856-040	5	8	¾	7.50	8.99	4.10	1.10	4.49	HC
6	608	856-060	2	8	¾	9.50	10.98	5.10	1.25	6.60	HC
8	608	856-080	1	8	¾	11.75	13.51	6.88	1.71	8.62	HC
10	602	856-100	1	12	¾	14.25	15.97	8.30	1.73	10.70	HC
12	602	856-120	1	12	¾	17.00	18.95	9.55	1.72	12.69	HC
14	A33	* 856-140N	1	12	1	18.75	21.00	13.00	0.50	11.41	FAB
16	A33	* 856-160N	1	16	1	21.25	23.50	14.00	0.50	13.08	FAB
18	A33	* 856-180N	1	16	1 ½	22.75	25.00	16.00	0.50	14.76	FAB
20	A33	* 856-200N	1	20	1 ½	25.00	27.50	18.00	0.50	16.43	FAB
24	A33	* 856-240N	1	20	1 ¼	29.50	32.00	20.00	0.50	19.79	FAB

**Flange (Blind)**

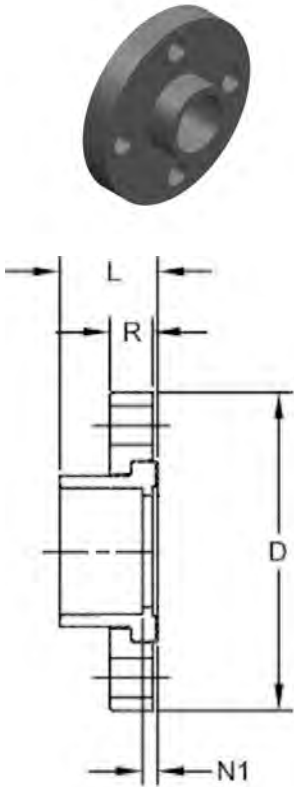
- ANSI 150 Class according to ANSI B16.5
- 1/2" - 8" 150 psi @ 73°F (10.3 bar @ 22.7°C)
- 10" - 24" 50 psi @ 73°F (3.5 bar @ 22.7°C)
- HC = Honeycomb (Face)



Size (inch)	P/L	Part No.	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	R (inch)	Design
1/2	608	<b>853-005</b>	5	4	1/2	2.38	3.51	0.48	0.39	HC
3/4	608	<b>853-007</b>	5	4	1/2	2.75	3.90	0.55	0.45	HC
1	608	<b>853-010</b>	5	4	1/2	3.13	4.29	0.66	0.53	HC
1 1/4	608	<b>853-012</b>	5	4	1/2	3.50	4.62	0.73	0.59	HC
1 1/2	608	<b>853-015</b>	5	4	1/2	3.88	5.01	0.81	0.68	HC
2	608	<b>853-020</b>	5	4	5/8	4.75	6.02	0.90	0.70	HC
2 1/2	608	<b>853-025</b>	5	4	5/8	5.50	7.00	0.97	0.76	HC
3	608	<b>853-030</b>	5	4	5/8	6.00	7.45	1.03	1.03	HC
4	608	<b>853-040</b>	5	8	5/8	7.50	8.96	1.14	1.14	HC
5	H04	<b>* 853-050FS</b>	1	8	1 3/16	8.50	10.06	1.00	1.00	SOLID
6	608	<b>853-060</b>	2	8	3/4	9.50	10.95	1.51	1.27	HC
8	608	<b>853-080</b>	2	8	3/4	11.75	13.51	1.62	1.45	HC
10	A33	<b>* 853-100N</b>	1	12	7/8	14.25	16.00	1.00	1.00	SOLID
12	A33	<b>* 853-120N</b>	1	12	7/8	17.00	19.00	1.00	1.00	SOLID
14	A33	<b>* 853-140N</b>	1	12	1	18.75	21.00	1.00	1.00	SOLID
16	A33	<b>* 853-160N</b>	1	16	1	21.25	23.50	1.00	1.00	SOLID
18	A33	<b>* 853-180N</b>	1	16	1 1/8	22.75	25.00	1.00	1.00	SOLID
20	A33	<b>* 853-200N</b>	1	20	1 1/8	25.00	27.50	1.00	1.00	SOLID
24	A33	<b>* 853-240N</b>	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)

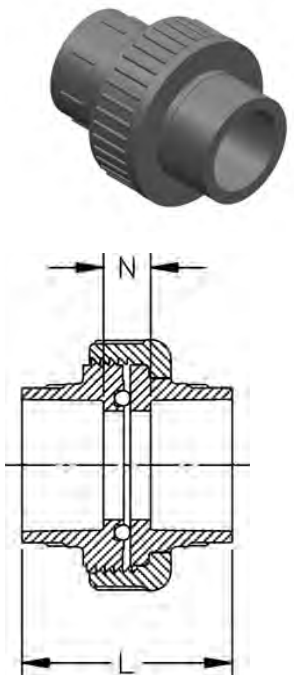


Size (inch)	P/L	Part No.
½	608	* 854-005-300
¾	608	* 854-007-300
1	608	* 854-010-300
1 ¼	608	* 854-012-300
1 ½	608	* 854-015-300
2	608	* 854-020-300
2 ½	608	* 854-025-300
3	608	* 854-030-300
4	608	* 854-040-300
6	608	* 854-060-300
8	608	* 854-080-300
10	602	* 854-100-300
12	602	* 854-120-300

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	0.56	FAB
¾	5	4	⅝	3.25	4.63	1.15	0.13	0.62	FAB
1	5	4	⅞	3.50	4.88	1.38	0.11	0.69	FAB
1 ¼	5	4	⅞	3.88	5.25	1.45	0.14	0.75	FAB
1 ½	5	4	¾	4.50	6.13	1.59	0.15	0.81	FAB
2	5	8	⅞	5.00	6.50	1.76	0.20	0.88	FAB
2 ½	5	8	¾	5.88	7.50	2.05	0.22	1.00	FAB
3	5	8	¾	6.63	8.25	2.25	0.30	1.12	FAB
4	5	8	¾	7.88	10.00	2.65	0.34	1.25	FAB
6	2	12	¾	10.63	12.50	3.45	0.35	1.44	FAB
8	2	12	⅞	13.00	15.00	4.50	0.40	1.62	FAB
10	2	16	1	15.25	17.50	5.63	0.50	1.88	FAB
12	2	16	1 ⅛	17.75	20.50	6.69	0.56	2.00	FAB

**Union Type 375 (S x S)**

235 psi @ 73°F (16.2 bar @ 22.7°C)

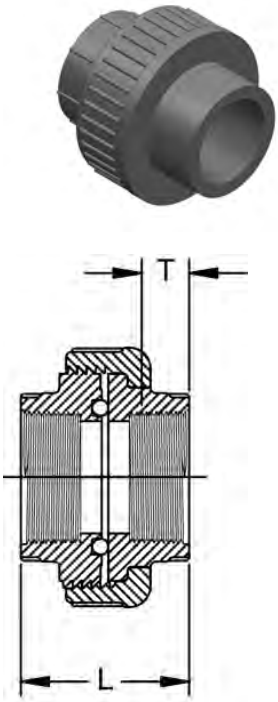


Size (inch)	P/L	EPDM Part No.	FKM Part No.	Pack Qty	L (inch)	N (inch)
½	608	897-375-005	857-375-005	25	2.56	0.78
¾	608	897-375-007	857-375-007	10	2.80	0.76
1	608	897-375-010	857-375-010	5	3.22	0.89
1 ¼	608	897-375-012	857-375-012	5	3.56	0.99
1 ½	608	897-375-015	857-375-015	5	3.76	0.92
2	608	897-375-020	857-375-020	2	4.18	1.11

**Union Type 375 (FPT X FPT)**

- 117 psi @ 73°F (8.1 bar @ 22.7°C)

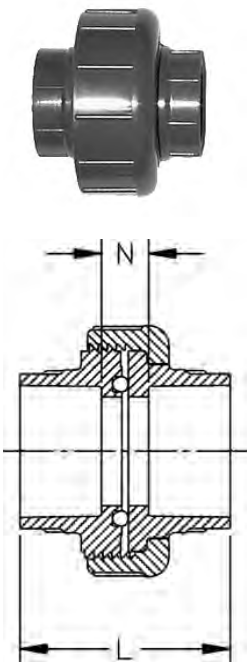
Size (inch)	P/L	EPDM Part No.	FKM Part No.	Pack Qty	L (inch)	T (inch)
½	608	* 898-375-005	* 858-375-005	25	2.06	0.75
¾	608	* 898-375-007	* 858-375-007	10	2.11	0.79
1	608	* 898-375-010	* 858-375-010	5	2.60	1.01
1 ¼	608	* 898-375-012	* 858-375-012	5	2.80	1.06
1 ½	608	* 898-375-015	* 858-375-015	5	2.76	1.06
2	608	* 898-375-020	* 858-375-020	2	2.93	1.09



**Union (S x S)**

- 150 psi @ 73°F (10.3 bar @ 22.7°C)

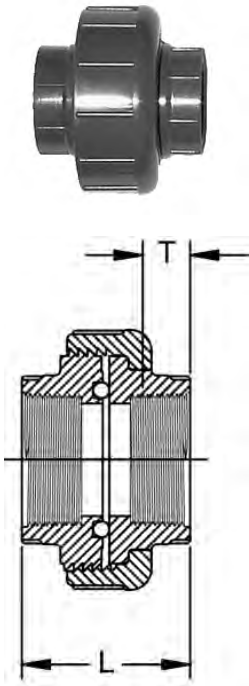
Size (inch)	P/L	EPDM Part No.	FKM Part No.	Pack Qty	L (inch)	N (inch)
3	608	* 897-030	* 857-030	1	4.74	0.96
4	608	* 897-040	* 857-040	1	5.62	1.11



**Union (FPT X FPT)**

- 75 psi @ 73°F (5.2 bar @ 22.7°C)

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



**Nipple (MPT x MPT)**

Size (inch)	P/L	Part No.	Pack Qty	L (inch)	Design
1/2 x CL	608	* 861-077	50	1.13	MOLD
1/2 x 2	608	* 861-079	25	2.00	MOLD
1/2 x 3	608	* 861-081	25	3.00	MOLD
1/2 x 4	608	* 861-082	25	4.00	MOLD
1/2 x 5	608	* 861-083	25	5.00	MOLD
1/2 x 6	608	* 861-084	25	6.00	MOLD
1/2 x 8	608	* 861-086	25	8.00	FAB
1/2 x 10	608	* 861-087	25	10.00	FAB
1/2 x 12	608	* 861-088	25	12.00	FAB
3/4 x CL	608	* 861-104	25	1.38	MOLD
3/4 x 2	608	* 861-020	25	2.00	MOLD
3/4 x 3	608	* 861-106	25	3.00	MOLD
3/4 x 4	608	* 861-107	25	4.00	MOLD
3/4 x 5	608	* 861-108	25	5.00	MOLD
3/4 x 6	608	* 861-109	25	6.00	MOLD
3/4 x 8	608	* 861-110	25	8.00	FAB
3/4 x 10	608	* 861-111	25	10.00	FAB
3/4 x 12	608	* 861-112	25	12.00	FAB
1 x CL	608	* 861-133	25	1.50	MOLD
1 x 2	608	* 861-134	25	2.00	MOLD
1 x 3	608	* 861-135	25	3.00	MOLD
1 x 4	608	* 861-136	25	4.00	MOLD
1 x 5	608	* 861-137	25	5.00	MOLD
1 x 6	608	* 861-138	25	6.00	MOLD
1 x 8	608	* 861-139	25	8.00	FAB
1 x 10	608	* 861-140	25	10.00	FAB
1 x 12	608	* 861-141	25	12.00	FAB
1 1/4 x CL	608	* 861-170	25	1.63	MOLD
1 1/4 x 2	608	* 861-171	25	2.00	MOLD
1 1/4 x 3	608	* 861-172	25	3.00	MOLD
1 1/4 x 4	608	* 861-173	25	4.00	MOLD
1 1/4 x 5	608	* 861-174	25	5.00	MOLD
1 1/4 x 6	608	* 861-175	25	6.00	MOLD
1 1/4 x 8	608	* 861-176	25	8.00	FAB
1 1/4 x 10	608	* 861-177	25	10.00	FAB

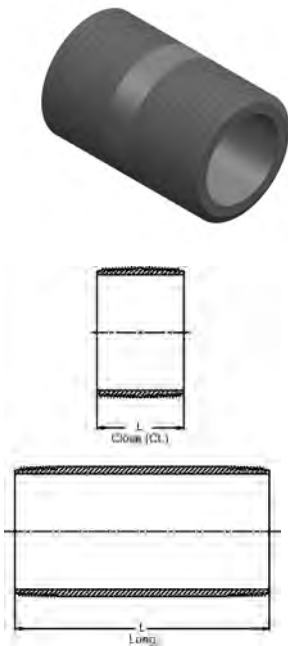
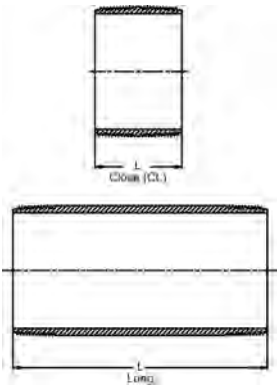


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Size (inch)	P/L	Part No.	Pack Qty	L (inch)	Design
1 1/4 x 12	608	* 861-178	25	12.00	FAB
1 1/2 x CL	608	* 861-213	25	1.75	MOLD
1 1/2 x 2	608	* 861-214	25	2.00	MOLD
1 1/2 x 3	608	* 861-215	25	3.00	MOLD
1 1/2 x 4	608	* 861-216	25	4.00	MOLD
1 1/2 x 5	608	* 861-217	25	5.00	MOLD
1 1/2 x 6	608	* 861-218	25	6.00	MOLD
1 1/2 x 8	608	* 861-219	25	8.00	FAB
1 1/2 x 10	608	* 861-220	25	10.00	FAB
1 1/2 x 12	608	* 861-221	25	12.00	FAB
2 x CL	608	* 861-251	25	2.00	MOLD
2 x 2 1/2	608	* 861-252	25	2.50	MOLD
2 x 3	608	* 861-253	25	3.00	MOLD
2 x 4	608	* 861-254	25	4.00	MOLD
2 x 5	608	* 861-255	25	5.00	MOLD
2 x 6	608	* 861-256	25	6.00	MOLD
2 x 8	608	* 861-257	25	8.00	FAB
2 x 10	608	* 861-258	25	10.00	FAB
2 x 12	608	* 861-259	25	12.00	FAB
2 1/2 x CL	608	* 861-291	10	2.50	FAB
2 1/2 x 4	608	* 861-295	10	4.00	FAB
2 1/2 x 3	608	* 861-292	10	3.00	FAB
2 1/2 x 5	608	* 861-296	10	5.00	FAB
2 1/2 x 6	608	* 861-297	10	6.00	FAB
2 1/2 x 8	608	* 861-298	10	8.00	FAB
2 1/2 x 10	608	* 861-299	10	10.00	FAB
2 1/2 x 12	608	* 861-300	10	12.00	FAB
3 x CL	608	* 861-338	10	2.63	FAB
3 x 3	608	* 861-340	10	3.00	FAB
3 x 4	608	* 861-341	10	4.00	FAB
3 x 5	608	* 861-342	10	5.00	FAB
3 x 6	608	* 861-343	10	6.00	FAB
3 x 8	608	* 861-344	10	8.00	FAB
3 x 10	608	* 861-345	10	10.00	FAB
3 x 12	608	* 861-346	10	12.00	FAB
4 x CL	608	* 861-422	10	2.88	FAB
4 x 4	608	* 861-423	10	4.00	FAB
4 x 5	608	* 861-425	10	5.00	FAB
4 x 6	608	* 861-426	10	6.00	FAB
4 x 8	608	* 861-427	5	8.00	FAB
4 x 10	608	* 861-428	5	10.00	FAB
4 x 12	608	* 861-429	5	12.00	FAB



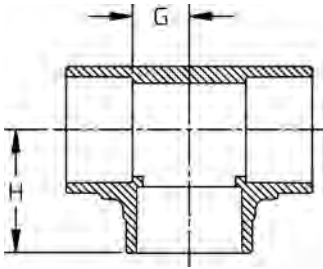
# Schedule 80 PVC Low Pressure Fittings



## Tee Low Pressure (SxSxS)

- 130 psi @ 73°F (8.96 bar @ 22.7°C)

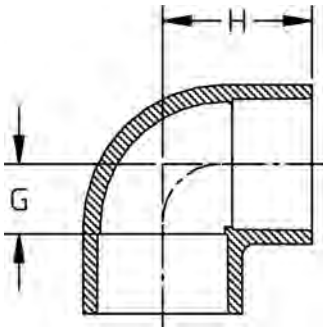
Size (inch)	P/L	Part No.	Pack Qty	H (inch)	G (inch)
10	B11	<b>H801100LP</b>	1	10.83	5.77
12	B11	<b>H801120LP</b>	1	13.38	6.91



## 90° Ell Low Pressure (S x S)

- 130 psi @ 73°F (8.96 bar @ 22.7°C)

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

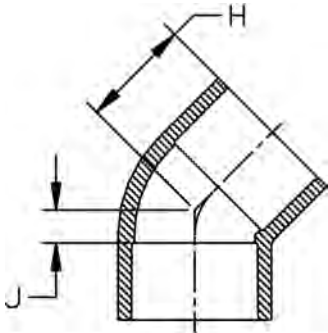


**45° Ell Low Pressure (S x S)**

- 130 psi @ 73°F (8.96 bar @ 22.7°C)



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

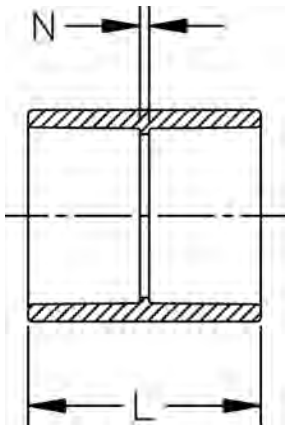


**Coupling Low Pressure (S x S)**

- 130 psi @ 73°F (8.96 bar @ 22.7°C)



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

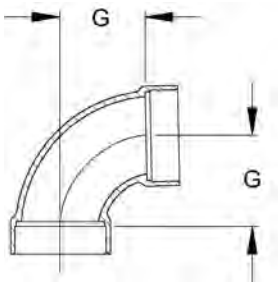


# Schedule 80 PVC DWV Fittings



## 1/4 Bend Short Sweep (SxS)

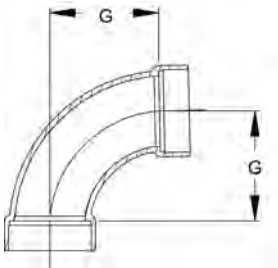
Size (inch)	P/L	Part No.	Pack Qty	G (inch)
1 1/2	608	<b>806-015SS</b>	4	1.75
2	608	<b>806-020SS</b>	4	2.31
3	608	<b>806-030SS</b>	1	3.06
4	608	<b>806-040SS</b>	1	3.88



## 1/4 Bend Long Sweep (SxS) - FAB



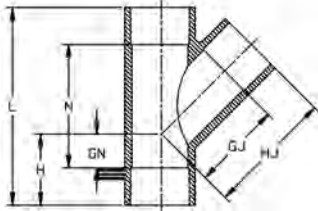
Size (inch)	P/L	Part No.	Pack Qty	G (inch)
1 1/2	A33	<b>806-015LSN</b>	4	4.13
2	A33	<b>806-020LSN</b>	4	4.75
3	A33	<b>806-030LSN</b>	1	7.00
4	A33	<b>806-040LSN</b>	1	9.00



**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)

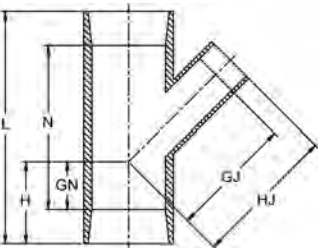


Size (inch)	P/L	Part No.	Pack Qty	GJ (inch)	GN (inch)	H (inch)	HJ (inch)	L (inch)	N (inch)	Design
1 ½	608	* 870-015	20	2.79	1.20	2.60	4.18	6.80	4.02	SL
2	608	870-020	10	3.56	1.36	2.87	5.07	7.99	4.97	SL
2 ½	H02	* 870-025S	1	3.97	0.84	2.59	5.72	8.31	3.97	SL
3	608	870-030	4	4.91	1.82	3.73	6.83	10.45	6.62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

**Reducing 45° Wye (S x S x S)**

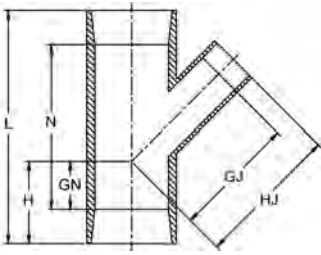


2" 235 psi @ 72°F (16.2 bar @ 22.7°C)  
 3" - 6" 150 psi @ 72°F (10.3 bar @ 22.7°C)  
 8" - 24" 100 psi @ 72°F (6.9 bar @ 22.7°C)



Size (inch)	P/L	Part No.	Pack Qty	GJ (inch)	GN (inch)	H (inch)	HJ (inch)	L (inch)	N (inch)	Design
2 x 1 ½	608	* 870-251FB	10	3.96	1.36	2.87	5.37	7.99	4.97	BUSH
3 x 1 ½	608	* 870-337FB	4	5.80	1.82	3.73	7.34	10.45	6.62	BUSH
3 x 2	608	* 870-338FB	4	5.77	1.82	3.73	7.33	10.45	6.62	BUSH
4 x 2	608	* 870-420FB	4	7.40	2.06	4.41	7.40	12.94	8.24	BUSH
4 x 3	608	* 870-422FB	4	7.03	2.06	4.41	9.00	12.94	8.24	BUSH
6 x 2	608	* 870-528FB	2	8.24	1.87	4.91	8.24	16.49	10.42	BUSH
6 x 3	608	* 870-530FB	2	7.88	1.87	4.91	9.84	16.49	10.42	BUSH
6 x 4	608	870-532	2	7.14	1.87	4.91	9.36	16.49	10.42	HS
8 x 3	608	* 870-580FB	1	10.23	0.41	4.43	12.20	15.98	7.95	BUSH
8 x 4	608	870-582	1	9.46	0.41	4.43	11.73	15.98	7.95	HS
8 x 6	608	* 870-585FB	1	12.78	1.90	5.92	15.76	21.35	13.30	BUSH
10 x 4	A33	* 875-623N	1	14.00	1.25	6.25	16.00	23.00	13.00	FAB
10 x 6	A33	* 875-626N	1	16.13	2.75	7.50	19.13	26.00	16.00	FAB
10 x 8	A33	* 875-628N	1	17.50	4.00	9.25	21.50	28.00	18.75	FAB
12 x 4	A33	* 875-663N	1	15.50	0.50	6.00	17.50	25.75	13.75	FAB
12 x 6	A33	* 875-666N	1	16.68	2.00	8.00	20.50	28.68	16.68	FAB
12 x 8	A33	* 875-668N	1	19.00	3.50	9.50	23.00	31.50	19.50	FAB
12 x 10	A33	* 875-670N	1	21.25	5.00	11.00	26.25	34.50	22.50	FAB
14 x 4	A33	* 875-696N	1	16.25	0.25	7.25	18.25	28.25	14.25	FAB
14 x 6	A33	* 875-698N	1	18.50	1.75	8.63	21.50	31.25	17.25	FAB
14 x 8	A33	* 875-700N	1	19.75	3.00	10.00	23.75	34.00	20.00	FAB
14 x 10	A33	* 875-702N	1	22.00	4.50	11.50	27.00	37.00	23.00	FAB
14 x 12	A33	* 875-704N	1	23.50	6.00	13.00	29.50	39.75	25.75	FAB
16 x 4	A33	* 875-730N	1	17.75	-0.75	7.50	19.75	31.00	15.00	FAB
16 x 6	A33	* 875-732N	1	19.88	1.00	9.00	22.88	34.00	18.00	FAB
16 x 8	A33	* 875-734N	1	21.25	2.50	10.25	25.25	36.75	20.75	FAB
16 x 10	A33	* 875-736N	1	23.50	4.00	12.00	28.50	39.75	23.75	FAB
16 x 12	A33	* 875-738N	1	25.00	5.50	14.25	31.00	42.75	26.75	FAB
16 x 14	A33	* 875-740N	1	27.25	6.25	14.25	34.25	44.50	28.50	FAB
18 x 4	A33	* 875-784N	1	19.00	-1.25	8.00	21.00	34.00	16.00	FAB
18 x 6	A33	* 875-786N	1	21.25	0.50	9.50	24.25	37.00	19.00	FAB
18 x 8	A33	* 875-788N	1	22.75	2.00	11.00	26.75	39.75	21.75	FAB
18 x 10	A33	* 875-790N	1	25.00	3.50	12.50	30.00	42.75	24.75	FAB

table continued on the next page

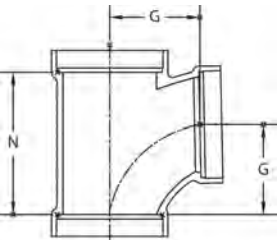


Size (inch)	P/L	Part No.	Pack Qty	GJ (inch)	GN (inch)	H (inch)	HJ (inch)	L (inch)	N (inch)	Design
18 x 12	A33	* 875-792N	1	26.25	4.75	13.75	32.50	45.50	27.50	FAB
18 x 14	A33	* 875-794N	1	28.75	5.75	14.75	35.75	47.50	29.50	FAB
18 x 16	A33	* 875-796N	1	30.25	7.25	16.00	38.25	50.25	32.25	FAB
20 x 4	A33	* 875-814N	1	20.50	-1.75	8.50	22.50	36.75	16.75	FAB
20 x 6	A33	* 875-816N	1	22.75	-0.25	10.00	25.75	39.75	19.75	FAB
20 x 8	A33	* 875-818N	1	24.25	1.50	11.50	28.25	42.75	22.75	FAB
20 x 10	A33	* 875-820N	1	26.50	3.00	13.00	31.50	45.75	25.75	FAB
20 x 12	A33	* 875-822N	1	28.00	4.25	14.25	34.00	48.50	28.50	FAB
20 x 14	A33	* 875-824N	1	30.25	5.25	15.00	37.25	50.25	30.25	FAB
20 x 16	A33	* 875-826N	1	31.75	6.50	16.50	39.75	53.00	33.00	FAB
20 x 18	A33	* 875-828N	1	34.00	8.00	18.00	43.00	56.00	36.00	FAB
24 x 4	A33	* 875-904N	1	23.25	-3.00	9.25	25.25	42.50	18.50	FAB
24 x 6	A33	* 875-906N	1	25.50	-1.50	10.75	28.50	45.50	21.54	FAB
24 x 8	A33	* 875-908N	1	27.00	0.00	12.00	31.00	48.25	24.25	FAB
24 x 10	A33	* 875-910N	1	29.25	1.75	13.50	34.25	51.25	27.25	FAB
24 x 12	A33	* 875-912N	1	30.50	3.25	15.00	36.50	54.25	30.25	FAB
24 x 14	A33	* 875-914N	1	33.00	4.00	16.00	40.00	56.00	32.00	FAB
24 x 16	A33	* 875-916N	1	34.50	5.50	17.50	42.50	58.75	34.75	FAB
24 x 18	A33	* 875-918N	1	36.75	6.75	18.75	45.75	61.50	37.50	FAB
24 x 20	A33	* 875-920N	1	38.25	8.25	20.25	48.25	64.50	40.50	FAB



**Sanitary Tee (SxSxS)**

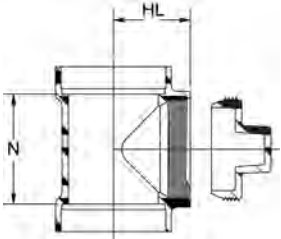
Size (inch)	P/L	Part No.	Pack Qty	G (inch)	N (inch)
1 1/2	608	37R461501	5	1.75	2.75
2	608	37R461502	5	2.31	3.69
3	608	37R461503	5	3.06	4.88
4	608	37R461504	5	3.88	6.13



**Cleanout Tee with Plug (SxSxFPT)**



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



**Schedule 80 PVC Metal Transition Fittings**



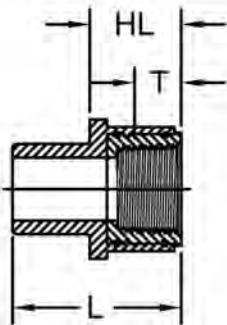
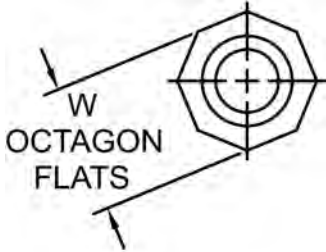
**Metal Union End Connectors Type 375 (316 SS)**

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

Size (inch)	P/L	Part No.	Pack Qty
1/2	A35	<b>* 37X003314</b>	1
3/4	A35	<b>* 37X003315</b>	1
1	A35	<b>* 37X003316</b>	1
1 1/4	A35	<b>* 37X003317</b>	1
1 1/2	A35	<b>* 37X003318</b>	1
2	A35	<b>* 37X003319</b>	1

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

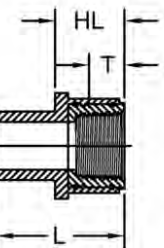
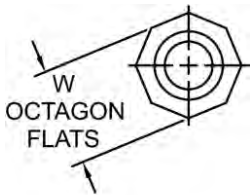
150 psi @ 73°F (10.3 bar @ 22.7°C)



Size (inch)	P/L	Part No.	Pack Qty	HL (inch)	L (inch)	T (inch)	W (inch)
½	A35	<b>878-005BR</b>	25	1.02	1.75	0.70	1.27
¾	A35	<b>878-007BR</b>	15	1.07	2.07	0.74	1.52
1	A35	<b>878-010BR</b>	15	1.32	2.44	0.81	1.93
1 ¼	A35	<b>878-012BR</b>	15	1.38	2.49	0.85	2.29
1 ½	A35	<b>878-015BR</b>	10	1.44	2.74	0.87	2.60
2	A35	<b>878-020BR</b>	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.	Pack Qty	HL (inch)	L (inch)	T (inch)	W (inch)
½	A35	<b>878-005SS</b>	25	1.02	1.75	0.70	1.27
¾	A35	<b>878-007SS</b>	15	1.07	2.07	0.74	1.52
1	A35	<b>878-010SS</b>	15	1.32	2.44	0.81	1.93
1 ¼	A35	<b>878-012SS</b>	15	1.38	2.49	0.85	2.29
1 ½	A35	<b>878-015SS</b>	10	1.45	2.74	0.87	2.60
2	A35	<b>878-020SS</b>	5	1.43	2.81	1.11	3.36

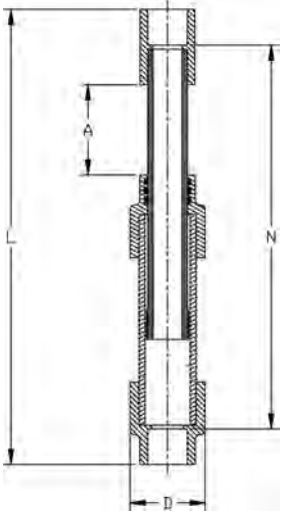
# Schedule 80 PVC Expansion Joints



## 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.

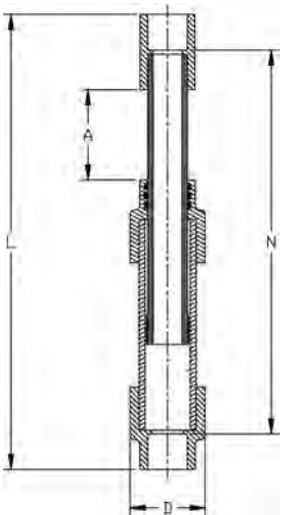
Size (inch)	P/L	EPDM Part No.	FKM Part No.	A (inch)	D (inch)	L (inch)	N (inch)
1/2	634	* 826-005X6	* 836-005X6	3.00	1.86	13.97	12.17
3/4	634	* 826-007X6	* 836-007X6	3.00	2.23	14.44	12.40
1	634	* 826-010X6	* 836-010X6	3.00	2.50	14.98	12.69
1 1/4	634	* 826-012X6	* 836-012X6	3.00	2.89	15.56	12.98
1 1/2	634	* 826-015X6	* 836-015X6	3.00	3.51	16.00	13.21
2	634	* 826-020X6	* 836-020X6	3.00	4.40	18.05	15.01
3	634	* 826-030X6	* 836-030X6	3.00	5.52	19.75	16.00
4	634	* 826-040X6	* 836-040X6	3.00	7.92	28.29	23.76
6	634	* 826-060X6	* 836-060X6	3.00	9.80	27.79	21.73
8	634	* 826-080X6	* 836-080X6	3.00	10.75	25.35	17.31
10	634	* 826-100X6	* 836-100X6	3.00	12.75	29.64	19.60



## Expansion Joint 12" Travel (S x S)

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

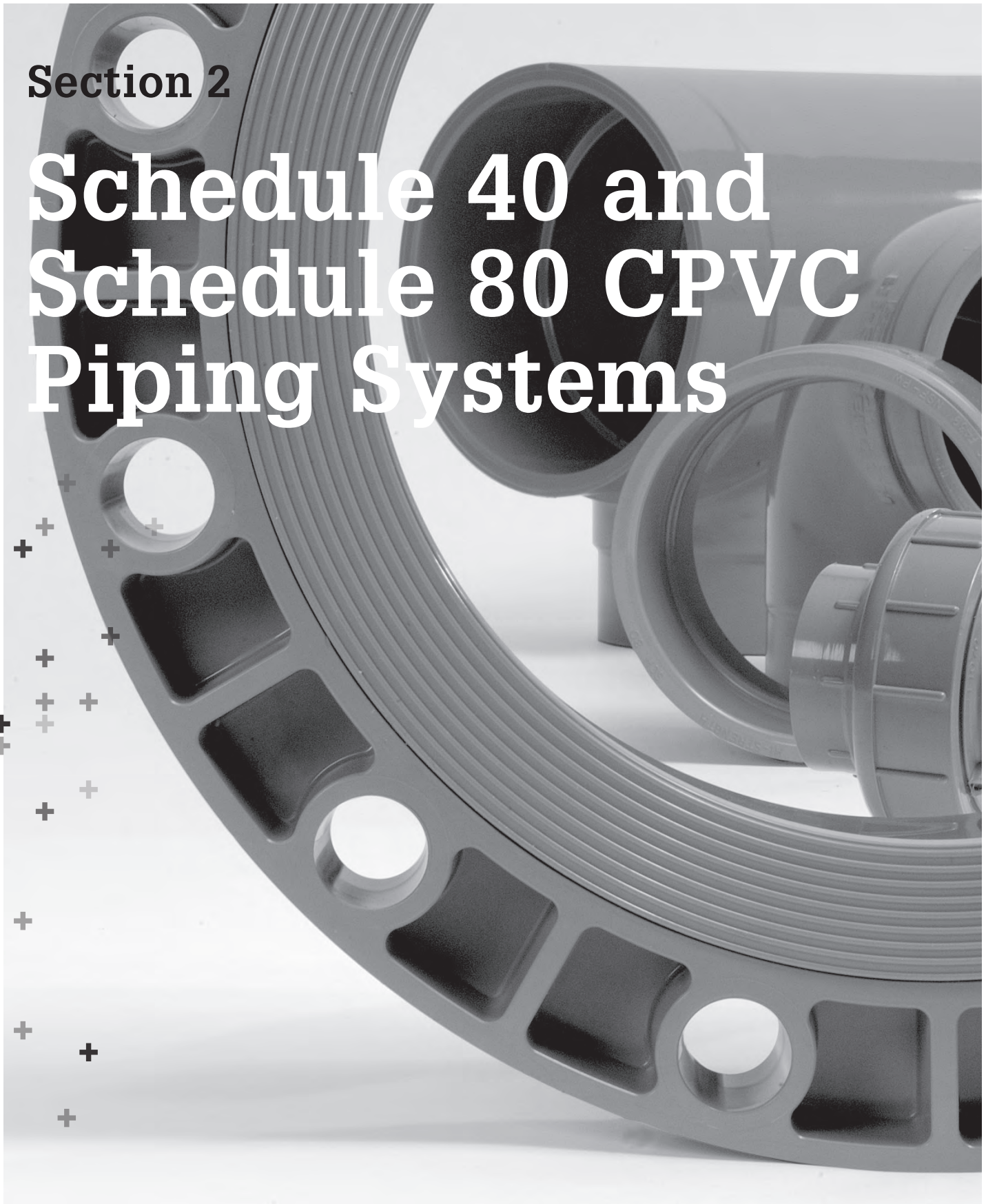
Size (inch)	P/L	EPDM Part No.	FKM Part No.	A (inch)	D (inch)	L (inch)	N (inch)
1/2	634	* 826-005X12	* 836-005X12	6.00	1.86	23.10	21.30
3/4	634	* 826-007X12	* 836-007X12	6.00	2.23	23.57	21.52
1	634	* 826-010X12	* 836-010X12	6.00	2.50	24.11	21.81
1 1/4	634	* 826-012X12	* 836-012X12	6.00	2.89	24.69	22.11
1 1/2	634	* 826-015X12	* 836-015X12	6.00	3.51	25.12	22.34
2	634	* 826-020X12	* 836-020X12	6.00	4.40	27.05	24.01
3	634	* 826-030X12	* 836-030X12	6.00	5.52	28.75	25.00
4	634	* 826-040X12	* 836-040X12	6.00	7.92	37.28	32.76
6	634	* 826-060X12	* 836-060X12	6.00	9.80	26.79	30.73
8	634	* 826-080X12	* 836-080X12	6.00	10.75	28.35	20.31
10	634	* 826-100X12	* 836-100X12	6.00	12.75	32.64	22.60





**Section 2**

# Schedule 40 and Schedule 80 CPVC Piping Systems



## Glossary

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

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](http://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.**

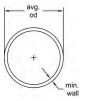
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Schedule 80 CPVC DWV Fittings

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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 :  $\pm 0.03$

D Outside Diameter :  $\pm 0.06$

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

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

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

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

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

L Overall Length of fitting :  $\pm 0.06$

N Socket Bottom to Socket Bottom; Couplings, Unions :  $\pm 0.06$

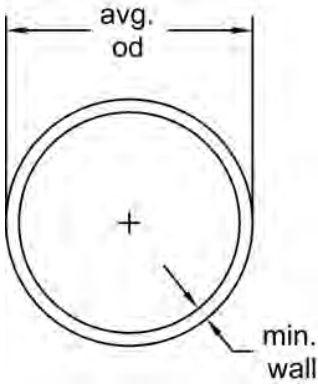
N1 Socket Bottom to Face of Flange :  $\pm 0.06$

R Thickness on Plugs, Flanges :  $\pm 0.03$

T, T1 Effective Thread Length : Reference Only

W Height of Cap :  $\pm 0.06$

# Schedule 40 CPVC Pressure Pipe

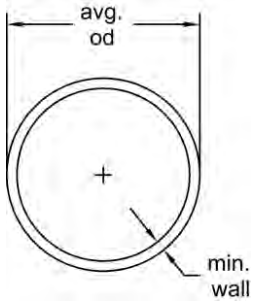


## Harvel Corzan® Plain End Pipe - 20 Ft Lengths

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

Size (inch)	P/L	Plain End Part No.	Lift Qty. (20ft Lgths) (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
¼	H23	*H0400025CG2000	5700	0.540	0.088	0.091	780
⅜	H23	*H0400038CG2000	5700	0.675	0.091	0.122	620
½	H23	*H0400050CG2000	5700	0.840	0.109	0.180	600
¾	H23	*H0400075CG2000	5260	1.050	0.113	0.239	480
1	H23	*H0400100CG2000	4280	1.315	0.133	0.352	450
1 ¼	H23	*H0400125CG2000	2360	1.660	0.140	0.475	370
1 ½	H23	*H0400150CG2000	2060	1.900	0.145	0.568	330
2	H23	*H0400200CG2000	1660	2.375	0.154	0.761	280
2 ½	H23	*H0400250CG2000	1080	2.875	0.203	1.201	300
3	H23	*H0400300CG2000	840	3.500	0.216	1.572	260
3 ½	H23	*H0400350CG2000	680	4.000	0.226	1.905	240
4	H23	*H0400400CG2000	520	4.500	0.237	2.239	220
5	H23	*H0400500CG2000	400	5.563	0.258	3.095	190
6	H23	*H0400600CG2000	340	6.625	0.280	3.945	180
8	H23	*H0400800CG2000	220	8.625	0.322	5.958	160
10	H23	*H0401000CG2000	80	10.750	0.365	8.458	140
12	H23	*H0401200CG2000	60	12.750	0.406	11.172	130
14	H23	*H0401400CG2000	60	14.000	0.437	13.262	130
16	H23	*H0401600CG2000	60	16.000	0.500	17.312	130
18	H23	*H0401800CG2000	40	18.000	0.562	0.586	130
20	H23	*H0402000CG2000	40	20.000	0.593	26.530	120
24	H23	*H0402400CG2000	40	24.000	0.687	36.916	120

# Schedule 80 CPVC Pressure Pipe



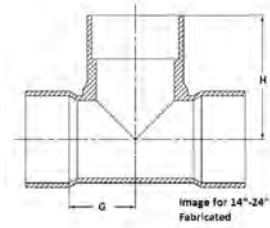
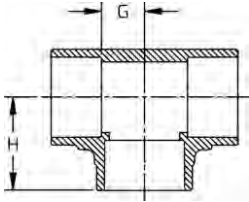
## Harvel Corzan® Plain End Pipe - 20 Ft Lengths

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

Size (inch)	P/L	Plain End Part No.	Lift Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
¼	H06	*H0800025CG2000	5700	0.540	0.119	0.112	1130
⅜	H06	*H0800038CG2000	5700	0.675	0.126	0.154	920
½	H06	*H0800050CG2000	5700	0.840	0.147	0.225	850
¾	H06	*H0800075CG2000	5260	1.050	0.154	0.305	690
1	H06	*H0800100CG2000	4280	1.315	0.179	0.449	630
1 ¼	H06	*H0800125CG2000	2360	1.660	0.191	0.618	520
1 ½	H06	*H0800150CG2000	2060	1.900	0.200	0.751	470
2	H06	*H0800200CG2000	1660	2.375	0.218	1.040	400
2 ½	H06	*H0800250CG2000	1080	2.875	0.276	1.584	420
3	H06	*H0800300CG2000	840	3.500	0.300	2.124	370
3 ½	H06	*H0800350CG2000	680	4.000	0.318	2.607	350
4	H06	*H0800400CG2000	520	4.500	0.337	3.105	320
5	H06	*H0800500CG2000	400	5.563	0.375	4.343	290
6	H06	*H0800600CG2000	340	6.625	0.432	5.929	280
8	H06	*H0800800CG2000	220	8.625	0.500	9.051	250
10	H06	*H0801000CG2000	80	10.750	0.593	13.429	230
12	H06	*H0801200CG2000	60	12.750	0.687	18.458	230
14	H06	*H0801400CG2000	60	14.000	0.750	22.224	220
16	H06	*H0801600CG2000	60	16.000	0.843	28.557	220
18	H06	*H0801800CG2000	40	18.000	0.937	35.745	220
20	H06	*H0802000CG2000	40	20.000	1.031	45.022	220
24	H06	*H0802400CG2000	40	24.000	1.218	63.878	210

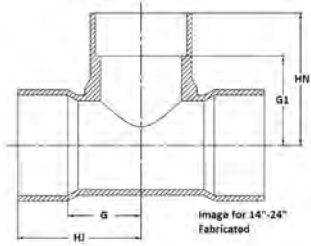
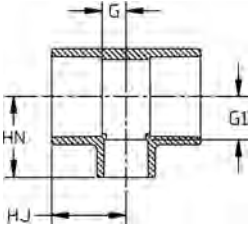
# Schedule 80 CPVC Pressure Fittings

## Tee (S x S x S)



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

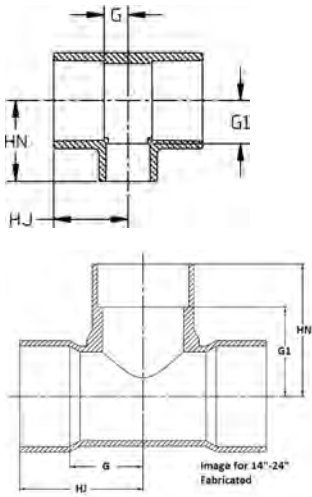
**Reducing Tee (S x S x S)**



Size (inch)	P/L	Part No.	Pack Qty	HJ (inch)	HN (inch)	G (inch)	G1 (inch)	Design
¾ x ½	625	9801-101	25	1.62	1.62	0.60	0.72	SL
1 x ½	625	9801-130	25	1.87	1.64	0.72	0.74	SL
1 x ¾	625	9801-131	25	1.86	1.89	0.72	0.75	SL
1 ¼ x ½	625	*9801-166FB	20	1.99	2.35	0.73	1.47	BUSH
1 ¼ x ¾	625	*9801-167FB	20	1.99	2.35	0.73	1.33	BUSH
1 ¼ x 1	625	9801-168	20	2.01	2.05	0.73	0.91	SL
1 ½ x ½	625	9801-209	5	1.92	1.91	0.53	1.03	SL
1 ½ x ¾	625	9801-210	5	1.99	2.07	0.60	1.05	SL
1 ½ x 1	625	9801-211	5	2.12	2.17	0.72	1.03	SL
1 ½ x 1 ¼	625	*9801-212FB	5	2.44	2.74	1.04	1.47	BUSH
2 x ½	625	9801-247	5	1.99	2.16	0.54	1.28	SL
2 x ¾	625	9801-248	5	2.22	2.31	0.60	1.30	SL
2 x 1	625	9801-249	5	2.24	2.42	0.72	1.27	SL
2 x 1 ¼	625	*9801-250FB	5	2.81	3.11	1.30	1.84	BUSH
2 x 1 ½	625	9801-251	5	2.54	2.66	1.03	1.27	SL
2 ½ x ½	625	*9801-287FB	5	3.05	3.35	1.28	2.44	BUSH
2 ½ x ¾	625	*9801-288FB	5	3.05	3.35	1.28	2.33	BUSH
2 ½ x 1	625	*9801-289FB	5	3.05	3.36	1.28	2.22	BUSH
2 ½ x 1 ¼	625	*9801-290FB	5	3.05	3.34	1.28	2.07	BUSH
2 ½ x 1 ½	625	*9801-291FB	5	3.05	3.35	1.28	1.94	BUSH
2 ½ x 2	625	9801-292	5	3.05	3.05	1.28	1.54	SL
3 x ½	625	*9801-333FB	5	3.20	3.68	1.30	2.77	BUSH
3 x ¾	625	*9801-334FB	5	3.20	3.68	1.30	2.66	BUSH
3 x 1	625	*9801-335FB	5	3.20	3.69	1.30	2.55	BUSH
3 x 1 ¼	625	*9801-336FB	5	3.20	3.67	1.30	2.40	BUSH
3 x 1 ½	625	*9801-337FB	5	3.20	3.68	1.30	2.27	BUSH
3 x 2	625	9801-338	5	3.20	3.39	1.30	1.87	SL
3 x 2 ½	625	*9801-339FB	5	3.73	4.07	1.81	2.17	BUSH
4 x ½	625	*9801-415FB	5	3.52	4.19	1.27	3.28	BUSH
4 x ¾	625	*9801-416FB	5	3.52	4.19	1.27	3.17	BUSH
4 x 1	625	*9801-417FB	5	3.53	4.12	1.26	3.00	BUSH
4 x 1 ¼	625	*9801-418FB	5	3.52	4.18	1.27	2.91	BUSH
4 x 1 ½	625	*9801-419FB	5	3.52	4.19	1.27	2.78	BUSH
4 x 2	625	9801-420	5	3.54	3.87	1.27	2.37	SL
4 x 2 ½	625	*9801-421FB	5	4.14	4.62	1.85	2.73	BUSH
4 x 3	625	9801-422	5	4.13	4.26	1.85	2.35	SL
5 x 2	H02	*9801-486S	1	5.83	6.59	3.20	5.09	SL
5 x 4	H02	*9801-490S	1	5.81	6.16	3.16	3.91	SL
6 x ½	625	*9801-523FB	1	6.56	7.42	3.56	6.52	BUSH
6 x ¾	625	*9801-524FB	1	6.56	7.43	3.49	6.41	BUSH
6 x 1	625	*9801-525FB	2	6.56	7.44	3.49	6.29	BUSH
6 x 1 ¼	625	*9801-526FB	2	6.56	7.42	3.49	6.15	BUSH
6 x 1 ½	625	*9801-527FB	1	6.56	7.42	3.49	6.02	BUSH
6 x 2	625	*9801-528FB	2	6.56	7.17	3.49	5.61	BUSH
6 x 2 ½	625	*9801-529FB	2	6.56	7.52	3.49	5.62	BUSH
6 x 3	625	*9801-530FB	2	6.56	7.21	3.49	5.25	BUSH
6 x 4	625	9801-532	2	6.57	6.80	3.49	4.47	HS
6 x 5	H04	*9801-533FS	1	9.00	9.50	5.75	6.50	FAB
8 x 4	625	*9801-582FB	1	7.63	8.09	3.59	5.84	BUSH
8 x 5	625	*9801-583FB	1	7.58	8.01	3.49	5.37	FAB
8 x 6	625	9801-585	1	7.65	7.54	3.55	4.63	SL
10 x 3	A34	*9801-621N	1	10.75	11.50	5.75	9.50	FAB
10 x 4	A34	*9801-623N	1	10.75	11.50	5.75	9.50	FAB
10 x 6	B10	*9801-626FB	1	10.83	11.43	5.78	8.33	BUSH
10 x 6	A34	*9801-626N	1	11.88	12.50	6.88	9.50	FAB
10 x 8	B10	*9801-628FB	1	10.83	11.46	5.78	7.36	BUSH
10 x 8	A34	*9801-628N	1	13.00	13.50	8.00	9.50	FAB
12 x 2	A34	*9801-659N	1	12.00	12.75	6.00	10.75	FAB
12 x 3	A34	*9801-661N	1	12.00	12.75	6.00	10.75	FAB
12 x 4	A34	*9801-663N	1	12.00	12.75	6.00	10.75	FAB
12 x 6	A34	*9801-666N	1	13.13	13.75	7.13	10.75	FAB

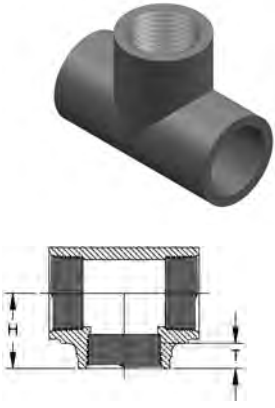
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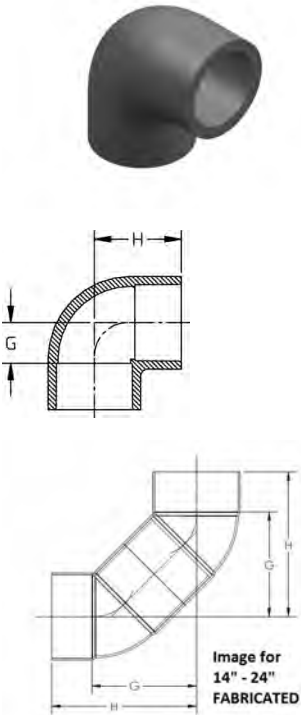
Size (inch)	P/L	Part No.	Pack Qty	HJ (inch)	HN (inch)	G (inch)	G1 (inch)	Design
12 x 8	B10	* 9801-668FB	1	12.99	13.67	6.94	9.58	BUSH
12 x 8	A34	* 9801-668N	1	14.13	14.75	8.13	10.75	FAB
12 x 10	B10	* 9801-670FB	1	12.99	13.68	6.94	8.57	BUSH
12 x 10	A34	* 9801-670N	1	15.13	15.75	9.13	10.75	FAB
14 x 2	A34	* 9801-692N	1	13.13	13.50	6.13	11.50	FAB
14 x 3	A34	* 9801-694N	1	13.13	13.50	6.13	11.50	FAB
14 x 4	A34	* 9801-696N	1	13.13	13.50	6.13	11.50	FAB
14 x 6	A34	* 9801-698N	1	14.25	14.50	7.25	11.50	FAB
14 x 8	A34	* 9801-700N	1	15.25	15.50	8.25	11.50	FAB
14 x 10	A34	* 9801-702N	1	16.25	16.50	9.25	11.50	FAB
14 x 12	A34	* 9801-704N	1	17.25	18.50	10.25	12.50	FAB
16 x 2	A34	* 9801-726N	1	14.38	14.75	6.38	12.75	FAB
16 x 3	A34	* 9801-728N	1	14.38	14.75	6.38	12.75	FAB
16 x 4	A34	* 9801-730N	1	14.38	14.75	6.38	12.75	FAB
16 x 6	A34	* 9801-732N	1	15.50	15.75	7.50	12.75	FAB
16 x 8	A34	* 9801-734N	1	16.50	16.75	8.50	12.75	FAB
16 x 10	A34	* 9801-736N	1	17.50	17.75	9.50	12.75	FAB
16 x 12	A34	* 9801-738N	1	18.50	19.75	10.50	13.75	FAB
16 x 14	A34	* 9801-740N	1	19.13	20.75	11.13	13.75	FAB
18 x 4	A34	* 9801-784N	1	15.63	16.00	6.63	14.00	FAB
18 x 6	A34	* 9801-786N	1	16.75	17.00	7.75	14.00	FAB
18 x 8	A34	* 9801-788N	1	17.75	18.00	8.75	14.00	FAB
18 x 10	A34	* 9801-790N	1	18.75	19.00	9.75	14.00	FAB
18 x 12	A34	* 9801-792N	1	19.75	21.00	10.75	15.00	FAB
18 x 14	A34	* 9801-794N	1	20.38	22.00	11.38	15.00	FAB
18 x 16	A34	* 9801-796N	1	21.38	24.00	12.38	16.00	FAB
20 x 4	A34	* 9801-814N	1	16.88	17.25	6.88	15.25	FAB
20 x 6	A34	* 9801-816N	1	18.00	18.25	8.00	15.25	FAB
20 x 8	A34	* 9801-818N	1	19.00	19.25	9.00	15.25	FAB
20 x 10	A34	* 9801-820N	1	20.00	20.25	10.00	15.25	FAB
20 x 12	A34	* 9801-822N	1	21.00	22.25	11.00	16.25	FAB
20 x 14	A34	* 9801-824N	1	21.63	23.25	11.63	16.25	FAB
20 x 16	A34	* 9801-826N	1	22.63	25.25	12.63	17.25	FAB
20 x 18	A34	* 9801-828N	1	23.63	27.25	13.63	18.25	FAB
24 x 4	A34	* 9801-904N	1	19.38	19.50	7.38	17.50	FAB
24 x 6	A34	* 9801-906N	1	20.50	20.50	8.50	17.50	FAB
24 x 8	A34	* 9801-908N	1	21.50	21.50	9.50	17.50	FAB
24 x 10	A34	* 9801-910N	1	22.50	22.50	10.50	17.50	FAB
24 x 12	A34	* 9801-912N	1	23.50	24.50	11.50	18.50	FAB
24 x 14	A34	* 9801-914N	1	24.13	25.50	12.13	18.50	FAB
24 x 16	A34	* 9801-916N	1	25.13	27.50	13.13	19.50	FAB
24 x 18	A34	* 9801-918N	1	26.13	30.50	14.13	20.50	FAB
24 x 20	A34	* 9801-920N	1	27.13	32.50	15.13	20.50	FAB
10 x 2	A34	* 9801-619N	1	10.75	11.50	5.75	9.50	FAB

**Tee (FPT x FPT x FPT)**



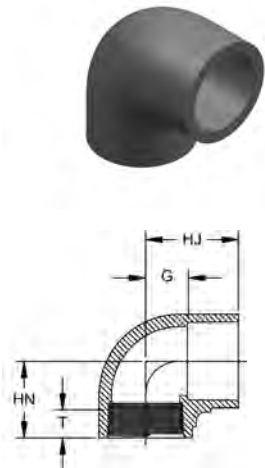
Size (inch)	P/L	Part No.	Pack Qty	H (inch)	T (inch)	Design
¼	625	* 9805-002	50	0.94	0.59	HS
⅜	625	* 9805-003	50	1.01	0.60	HS
½	625	^ 9805-005	25	1.26	0.76	HS
¾	625	^ 9805-007	15	1.36	0.72	HS
1	625	^ 9805-010	15	1.79	0.99	HS
1 ¼	625	^ 9805-012	10	1.93	1.01	HS
1 ½	625	^ 9805-015	10	2.08	1.03	HS
2	625	^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

**90° Ell (S x S)**



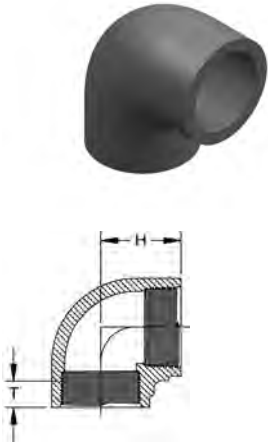
Size (inch)	P/L	Part No.	Pack Qty	H (inch)	G (inch)	Design
¼	625	* 9806-002	50	0.96	0.35	HS
⅜	H02	* 9806-003S	50	1.17	0.41	HS
½	625	9806-005	25	1.41	0.51	SL
¾	625	9806-007	25	1.60	0.57	SL
1	625	9806-010	10	1.83	0.68	SL
1 ¼	625	9806-012	10	2.18	0.90	SL
1 ½	625	9806-015	10	2.43	1.04	SL
2	625	9806-020	10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

**90° Ell (S x FPT)**



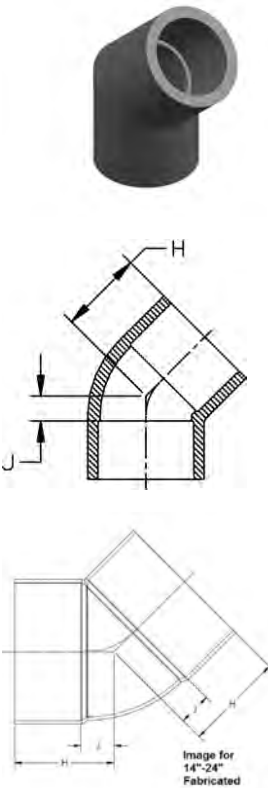
Size (inch)	P/L	Part No.	Pack Qty	HJ (inch)	HN (inch)	G (inch)	T (inch)	Design
½	625	9807-005	25	1.40	1.31	0.50	0.81	HS
¾	625	9807-007	25	1.59	1.36	0.58	0.72	HS
1	625	9807-010	10	1.81	1.70	0.67	1.00	HS
1 ¼	625	9807-012	10	2.15	1.92	0.89	1.03	HS
1 ½	625	9807-015	10	2.39	2.05	1.01	1.05	HS
2	625	9807-020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

90° Ell (FPT x FPT)



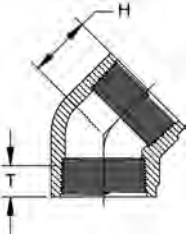
Size (inch)	P/L	Part No.	Pack Qty	H (inch)	T (inch)	Design
¼	625	* 9808-002	50	0.94	0.61	HS
⅜	625	* 9808-003	50	1.00	0.63	HS
½	625	^ 9808-005	25	1.27	0.78	HS
¾	625	^ 9808-007	20	1.36	0.72	HS
1	625	^ 9808-010	10	1.71	1.00	HS
1 ¼	625	^ 9808-012	10	1.92	1.01	HS
1 ½	625	^ 9808-015	10	2.08	1.06	HS
2	625	^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

45° Ell (S x S)



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

**45° ELL (FPT x FPT)**



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

**Coupling (S x S)**

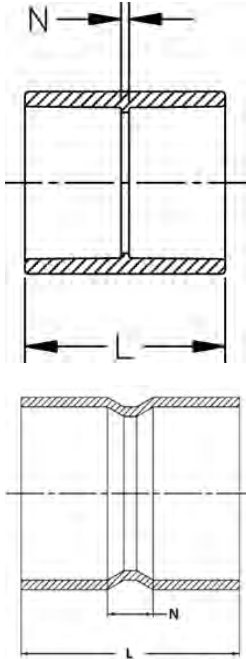


Image for 14"-24"  
Fabricated

Size (inch)	P/L	Part No.	Pack Qty	L (inch)	N (inch)	Design
¼	H02	* 9829-002S	50	1.38	0.06	SL
⅜	H02	* 9829-003S	50	1.65	0.11	SL
½	625	9829-005	25	1.93	0.12	SL
¾	625	9829-007	20	2.18	0.12	SL
1	625	9829-010	25	2.41	0.12	SL
1 ¼	625	9829-012	25	2.67	0.13	SL
1 ½	625	9829-015	10	2.94	0.15	SL
2	625	9829-020	5	3.18	0.13	SL
2 ½	625	9829-025	5	3.77	0.19	SL
3	625	9829-030	5	4.04	0.26	SL
4	625	9829-040	5	4.80	0.26	SL
5	H02	* 9829-050S	1	5.47	0.22	SL
6	625	9829-060	2	6.40	0.36	SL
8	625	9829-080	2	8.40	0.35	SL
10	B10	9829-100	1	10.77	0.75	SL
12	B10	9829-120	1	12.82	0.75	SL
14	A34	* 9829-140N	1	17.75	3.75	FAB
16	A34	* 9829-160N	1	20.25	4.25	FAB
18	A34	* 9829-180N	1	22.75	4.75	FAB
20	A34	* 9829-200N	1	25.25	5.25	FAB
24	A34	* 9829-240N	1	30.25	6.25	FAB

**Reducing Coupling (S x S)**

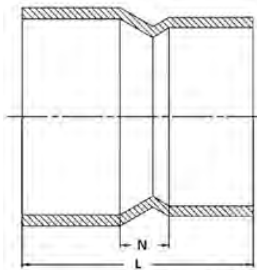
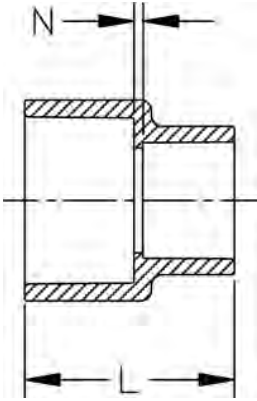


Image for 14"-24"  
Fabricated

Size (inch)	P/L	Part No.	Pack Qty	L (inch)	N (inch)	Design
¾ x ½	625	<b>9829-101</b>	25	2.13	0.13	HS
1 x ½	625	<b>9829-130</b>	25	2.17	0.12	HS
1 x ¾	625	<b>9829-131</b>	25	2.26	0.11	HS
1 ¼ x ¾	625	<b>*9829-167FB</b>	15	2.94	0.66	BUSH
1 ¼ x 1	625	<b>*9829-168FB</b>	15	2.52	0.10	BUSH
1 ½ x ½	625	<b>*9829-209FB</b>	15	2.94	0.64	BUSH
1 ½ x ¾	625	<b>*9829-210FB</b>	15	2.50	0.54	BUSH
1 ½ x 1	625	<b>9829-211</b>	15	2.65	0.11	HS
1 ½ x 1 ¼	625	<b>9829-212</b>	20	2.82	0.09	HS
2 x ½	625	<b>*9829-247FB</b>	5	3.44	0.87	BUSH
2 x ¾	625	<b>*9829-248FB</b>	5	3.39	0.77	BUSH
2 x 1	625	<b>9829-249</b>	5	3.15	0.32	HS
2 x 1 ¼	625	<b>9829-250</b>	5	3.05	0.14	HS
2 x 1 ½	625	<b>9829-251</b>	5	3.06	0.07	HS
2 ½ x 1 ½	625	<b>9829-291</b>	5	3.36	0.14	HS
2 ½ x 2	625	<b>*9829-292FB</b>	5	4.08	0.66	BUSH
3 x 1	625	<b>*9829-335FB</b>	5	4.56	1.53	BUSH
3 x 1 ½	625	<b>*9829-337FB</b>	5	4.58	1.15	BUSH
3 x 2	625	<b>9829-338</b>	5	3.61	0.17	HS
3 x 2 ½	625	<b>*9829-339FB</b>	5	4.42	0.63	BUSH
4 x 2	625	<b>*9829-420FB</b>	5	4.94	1.08	BUSH
4 x 2 ½	625	<b>*9829-421FB</b>	5	4.92	0.65	BUSH
4 x 3	625	<b>9829-422</b>	5	4.38	0.22	HS
5 x 4	H04	<b>*9829-490FS</b>	1	7.75	2.50	FAB
6 x 4	625	<b>9829-532</b>	2	10.17	3.46	HS
6 x 5	H04	<b>*9829-533FS</b>	1	8.94	2.69	FAB
8 x 4	625	<b>*9829-582FB</b>	2	9.81	3.53	BUSH
8 x 5	H04	<b>*9829-583FS</b>	1	14.69	7.44	FAB
8 x 6	625	<b>9829-585</b>	2	9.18	2.11	HS
10 x 4	A34	<b>*9829-623N</b>	1	17.00	10.00	FAB
10 x 6	B10	<b>*9829-626FB</b>	1	11.42	3.29	BUSH
10 x 6	A34	<b>*9829-626N</b>	1	13.00	5.00	FAB
10 x 8	B10	<b>*9829-628FB</b>	1	11.45	2.32	BUSH
10 x 8	A34	<b>*9829-628N</b>	1	12.75	3.75	FAB
12 x 4	A34	<b>*9829-663N</b>	1	26.25	18.25	FAB
12 x 6	A34	<b>*9829-666N</b>	1	20.50	11.50	FAB
12 x 8	B10	<b>*9829-668FB</b>	1	13.54	3.41	BUSH
12 x 8	A34	<b>*9829-668N</b>	1	15.50	5.50	FAB
12 x 10	B10	<b>*9829-670FB</b>	1	13.24	2.13	BUSH
12 x 10	A34	<b>*9829-670N</b>	1	15.00	4.00	FAB
14 x 4	A34	<b>*9829-696N</b>	1	13.00	3.00	FAB
14 x 6	A34	<b>*9829-698N</b>	1	31.00	21.00	FAB
14 x 8	A34	<b>*9829-700N</b>	1	21.00	10.00	FAB
14 x 10	A34	<b>*9829-702N</b>	1	17.00	5.00	FAB
14 x 12	A34	<b>*9829-704N</b>	1	16.50	3.50	FAB
16 x 4	A34	<b>*9829-730N</b>	1	16.50	3.50	FAB
16 x 6	A34	<b>*9829-732N</b>	1	16.50	4.50	FAB
16 x 8	A34	<b>*9829-734N</b>	1	18.05	5.00	FAB
16 x 10	A34	<b>*9829-736N</b>	1	19.00	5.10	FAB
16 x 12	A34	<b>*9829-738N</b>	1	19.25	5.25	FAB
16 x 14	A34	<b>*9829-740N</b>	1	19.50	4.50	FAB
18 x 4	A34	<b>*9829-784N</b>	1	48.50	37.50	FAB
18 x 6	A34	<b>*9829-786N</b>	1	36.00	24.00	FAB
18 x 8	A34	<b>*9829-788N</b>	1	42.50	29.50	FAB
18 x 10	A34	<b>*9829-790N</b>	1	33.50	19.50	FAB
18 x 12	A34	<b>*9829-792N</b>	1	22.00	7.00	FAB
18 x 14	A34	<b>*9829-794N</b>	1	22.25	6.25	FAB
18 x 16	A34	<b>*9829-796N</b>	1	21.75	4.75	FAB
20 x 4	A34	<b>*9829-814N</b>	1	60.50	48.50	FAB
20 x 6	A34	<b>*9829-816N</b>	1	55.50	42.50	FAB
20 x 8	A34	<b>*9829-818N</b>	1	56.25	42.25	FAB

table continued on the next page

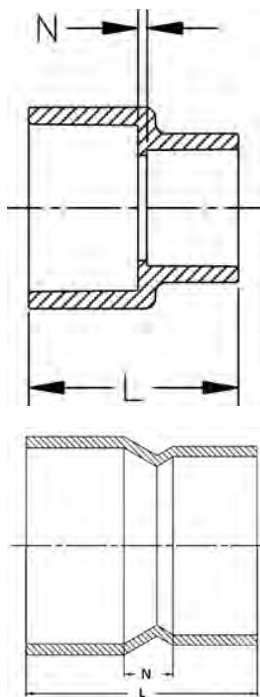
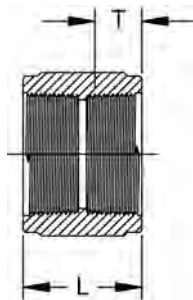


Image for 14"-24"  
Fabricated

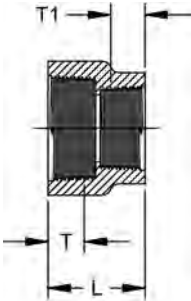
Size (inch)	P/L	Part No.	Pack Qty	L (inch)	N (inch)	Design
20 x 10	A34	*9829-820N	1	47.25	32.25	FAB
20 x 12	A34	*9829-822N	1	37.00	21.00	FAB
20 x 14	A34	*9829-824N	1	37.25	20.25	FAB
20 x 16	A34	*9829-826N	1	24.50	6.50	FAB
20 x 18	A34	*9829-828N	1	24.00	5.00	FAB
24 x 4	A34	*9829-904N	1	66.00	52.00	FAB
24 x 6	A34	*9829-906N	1	61.00	46.00	FAB
24 x 8	A34	*9829-908N	1	52.00	36.00	FAB
24 x 10	A34	*9829-910N	1	52.75	35.75	FAB
24 x 12	A34	*9829-912N	1	42.50	24.50	FAB
24 x 14	A34	*9829-914N	1	42.75	23.75	FAB
24 x 16	A34	*9829-916N	1	42.25	22.25	FAB
24 x 18	A34	*9829-918N	1	29.50	8.50	FAB
24 x 20	A34	*9829-920N	1	29.25	7.25	FAB

**Coupling (FPT x FPT)**



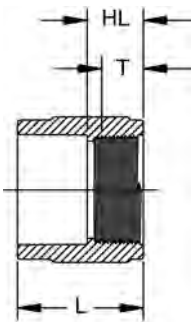
Size (inch)	P/L	Part No.	Pack Qty	L (inch)	T (inch)	Design
¼	625	*9830-002	50	1.29	0.61	HS
⅜	625	*9830-003	50	1.35	0.62	HS
½	625	^9830-005	25	1.68	0.77	SL
¾	625	^9830-007	25	1.75	0.80	SL
1	625	^9830-010	25	2.13	0.99	SL
1 ¼	625	^9830-012	25	2.19	1.03	SL
1 ½	625	^9830-015	10	2.22	1.03	SL
2	625	^9830-020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

**Reducing Coupling (FPT x FPT)**



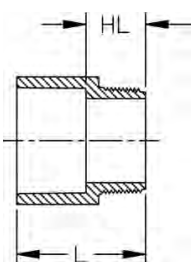
Size (inch)	P/L	Part No.	Pack Qty	L (inch)	T (inch)	T1 (inch)	Design
3/8 x 1/4	625	* 9830-052	50	1.29	0.60	0.59	HS
1/2 x 1/4	625	* 9830-072	50	1.45	0.75	0.59	HS
1/2 x 3/8	625	* 9830-073	50	1.46	0.74	0.60	HS
3/4 x 1/2	625	^ 9830-101	25	1.69	0.78	0.78	HS
1 x 1/2	625	^ 9830-130	25	1.84	0.98	0.77	BUSH
1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

**Female Adapter (S x FPT)**



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

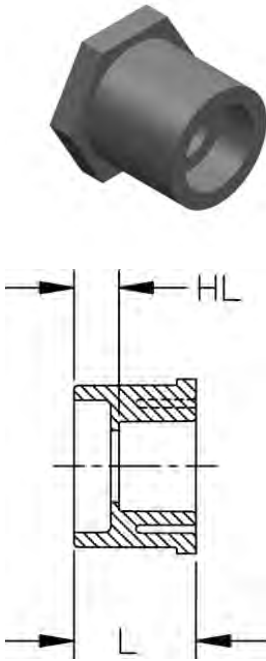
**Male Adapter (S x MPT)**



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

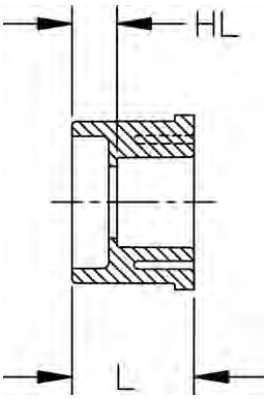


**Flush Style Reducer Bushing (SPG x S)**



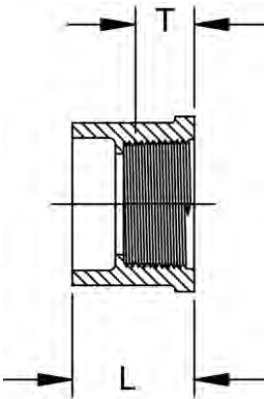
Size (inch)	P/L	Part No.	Pack Qty	HL (inch)	L (inch)	Design
½ x ¼	625	* 9837-072	50	0.47	1.15	FLUSH
½ x ⅜	625	* 9837-073	50	0.33	1.09	FLUSH
¾ x ½	625	9837-101	50	0.42	1.30	FLUSH
1 x ½	625	9837-130	50	0.55	1.44	FLUSH
1 x ¾	625	9837-131	50	0.41	1.43	FLUSH
1 ¼ x ½	625	9837-166	25	0.66	1.55	FLUSH
1 ¼ x ¾	625	9837-167	25	0.56	1.57	FLUSH
1 ¼ x 1	625	9837-168	25	0.44	1.59	FLUSH
1 ½ x ½	625	9837-209	25	0.78	1.69	FLUSH
1 ½ x ¾	625	9837-210	25	0.67	1.68	FLUSH
1 ½ x 1	625	9837-211	25	0.55	1.69	FLUSH
1 ½ x 1 ¼	625	9837-212	25	0.44	1.72	FLUSH
2 x ½	625	9837-247	10	0.91	1.81	FLUSH
2 x ¾	625	9837-248	10	0.79	1.82	FLUSH
2 x 1	625	9837-249	10	0.68	1.83	FLUSH
2 x 1 ¼	625	9837-250	10	0.54	1.81	FLUSH
2 x 1 ½	625	9837-251	10	0.40	1.81	FLUSH
2 ½ x 1 ½	625	9837-291	5	0.79	2.31	FLUSH
2 ½ x 2	625	9837-292	5	0.47	2.10	FLUSH
3 x 1	625	9837-335	5	1.27	2.42	FLUSH
3 x 1 ¼	A34	* 9837-336FB	5	1.43	2.71	FAB
3 x 1 ½	625	9837-337	5	0.89	2.43	FLUSH
3 x 2	625	9837-338	5	0.86	2.42	FLUSH
3 x 2 ½	625	9837-339	5	0.38	2.27	FLUSH
4 x 2	625	9837-420	5	1.14	2.70	FLUSH
4 x 2 ½	625	* 9837-421FB	5	1.40	2.96	BUSH
4 x 3	625	9837-422	5	0.77	2.74	FLUSH
6 x ¾	625	* 9837-524FB	2	1.79	4.38	BUSH
6 x 1	625	* 9837-525FB	2	1.79	4.10	BUSH
6 x 1 ½	625	* 9837-527FB	2	1.79	4.10	BUSH
6 x 2	625	* 9837-528FB	2	1.13	4.03	BUSH
6 x 2 ½	625	* 9837-529FB	2	1.79	3.95	BUSH
6 x 3	625	9837-530	2	1.74	3.65	FLUSH
6 x 4	625	9837-532	2	1.42	3.67	FLUSH
6 x 5	H02	* 9837-534S	1	0.88	3.53	FLUSH
8 x 1 ½	625	* 9837-577FB	1	1.56	5.66	BUSH
8 x 2	625	* 9837-578FB	1	1.56	5.59	BUSH
8 x 3	625	* 9837-580FB	1	1.56	5.15	BUSH
8 x 4	625	* 9837-582FB	1	1.56	5.15	BUSH
8 x 5	625	* 9837-583FB	1	2.44	5.09	FAB
8 x 6	625	9837-585	1	1.69	4.66	FLUSH
10 x 2	B10	* 9837-619FB	1	2.57	6.66	BUSH
10 x 3	B10	* 9837-621FB	1	2.57	6.15	BUSH
10 x 4	B10	* 9837-623FB	1	4.01	6.26	BUSH
10 x 6	B10	9837-626	1	2.59	5.69	FLUSH
10 x 8	B10	9837-628	1	1.62	5.72	FLUSH
12 x 3	B10	* 9837-662FB	1	1.63	7.78	BUSH
12 x 4	B10	* 9837-663FB	1	1.63	7.78	BUSH
12 x 6	B10	* 9837-666FB	1	4.26	7.35	BUSH
12 x 8	02	9837-668	1	2.66	6.76	FLUSH
12 x 10	B10	9837-670	1	1.66	6.77	FLUSH
14 x 4	A34	* 9837-696N	1	5.50	7.50	FAB
14 x 6	A34	* 9837-698N	1	4.50	7.50	FAB
14 x 8	A34	* 9837-700N	1	3.50	7.50	FAB
14 x 10	A34	* 9837-702N	1	2.50	7.50	FAB
14 x 12	A34	* 9837-704N	1	1.50	7.50	FAB
16 x 4	A34	* 9837-730N	1	6.50	8.50	FAB
16 x 6	A34	* 9837-732N	1	5.50	8.50	FAB
16 x 8	A34	* 9837-734N	1	4.50	8.50	FAB
16 x 10	A34	* 9837-736N	1	3.50	8.50	FAB
16 x 12	A34	* 9837-738N	1	2.50	8.50	FAB

table continued on the next page



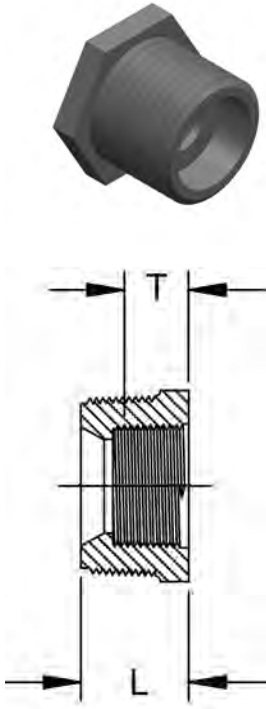
Size (inch)	P/L	Part No.	Pack Qty	HL (inch)	L (inch)	Design
16 x 14	A34	* 9837-740N	1	1.50	8.50	FAB
18 x 4	A34	* 9837-784N	1	7.50	9.50	FAB
18 x 6	A34	* 9837-786N	1	6.50	9.50	FAB
18 x 8	A34	* 9837-788N	1	5.50	9.50	FAB
18 x 10	A34	* 9837-790N	1	4.50	9.50	FAB
18 x 12	A34	* 9837-792N	1	3.50	9.50	FAB
18 x 14	A34	* 9837-794N	1	2.50	9.50	FAB
18 x 16	A34	* 9837-796N	1	1.50	9.50	FAB
20 x 4	A34	* 9837-814N	1	8.50	10.50	FAB
20 x 6	A34	* 9837-816N	1	7.50	10.50	FAB
20 x 8	A34	* 9837-818N	1	6.50	10.50	FAB
20 x 10	A34	* 9837-820N	1	5.50	10.50	FAB
20 x 12	A34	* 9837-822N	1	4.50	10.50	FAB
20 x 14	A34	* 9837-824N	1	3.50	10.50	FAB
20 x 16	A34	* 9837-826N	1	2.50	10.50	FAB
20 x 18	A34	* 9837-828N	1	1.50	10.50	FAB
24 x 4	A34	* 9837-904N	1	10.50	12.50	FAB
24 x 6	A34	* 9837-906N	1	9.50	12.50	FAB
24 x 8	A34	* 9837-908N	1	8.50	12.50	FAB
24 x 10	A34	* 9837-910N	1	7.50	12.50	FAB
24 x 12	A34	* 9837-912N	1	6.50	12.50	FAB
24 x 14	A34	* 9837-914N	1	5.50	12.50	FAB
24 x 16	A34	* 9837-916N	1	4.50	12.50	FAB
24 x 18	A34	* 9837-918N	1	3.50	12.50	FAB
24 x 20	A34	* 9837-920N	1	2.50	12.50	FAB

**Flush Style Reducer Bushing (SPG x FPT)**



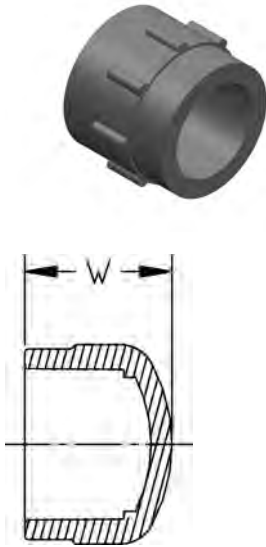
Size (inch)	P/L	Part No.	Pack Qty	L (inch)	T (inch)	Design
1/2 x 1/4	625	* 9838-072	50	1.14	0.61	FLUSH
1/2 x 3/8	625	* 9838-073	50	1.13	0.61	FLUSH
3/4 x 1/4	625	* 9838-098	50	1.21	0.60	FLUSH
3/4 x 1/2	625	9838-101	50	1.28	0.77	FLUSH
1 x 1/2	625	9838-130	50	1.42	0.76	FLUSH
1 x 3/4	625	9838-131	50	1.41	0.81	FLUSH
1 1/4 x 1/2	625	9838-166	15	1.56	0.75	FLUSH
1 1/4 x 3/4	625	9838-167	15	1.56	0.79	FLUSH
1 1/4 x 1	625	9838-168	15	1.56	0.99	FLUSH
1 1/2 x 1/2	625	9838-209	15	1.68	0.76	FLUSH
1 1/2 x 3/4	625	9838-210	15	1.69	0.79	FLUSH
1 1/2 x 1	625	9838-211	15	1.68	0.99	FLUSH
1 1/2 x 1 1/4	625	9838-212	15	1.69	1.02	FLUSH
2 x 1/2	625	9838-247	10	1.80	0.77	FLUSH
2 x 3/4	625	9838-248	10	1.80	0.80	FLUSH
2 x 1	625	9838-249	10	1.80	0.99	FLUSH
2 x 1 1/4	625	9838-250	10	1.81	1.02	FLUSH
2 x 1 1/2	625	9838-251	10	1.88	1.04	FLUSH
2 1/2 x 1 1/2	625	9838-291	5	2.24	1.07	FLUSH
2 1/2 x 2	625	9838-292	5	2.12	1.10	FLUSH
3 x 2	625	9838-338	5	2.42	1.07	FLUSH
4 x 2	625	9838-420	5	2.71	1.10	FLUSH
4 x 3	625	9838-422	5	2.75	1.62	FLUSH

**Flush Style Reducer Bushing (MPT x FPT)**



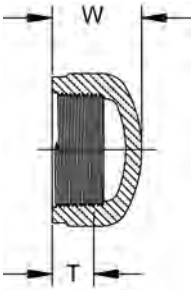
Size (inch)	P/L	Part No.	Pack Qty	L (inch)	T (inch)	Style
3/8 x 1/4	625	^ 9839-052	50	0.80	0.60	FLUSH
1/2 x 1/4	625	^ 9839-072	50	0.95	0.60	FLUSH
1/2 x 3/8	625	^ 9839-073	50	0.96	0.61	FLUSH
3/8 x 1/4	625	^ 9839-098	50	1.01	0.61	FLUSH
3/4 x 3/8	625	^ 9839-099	50	1.02	0.61	FLUSH
3/4 x 1/2	625	^ 9839-101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

**Cap (S)**



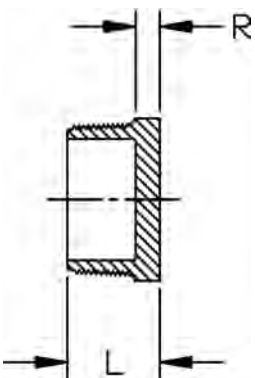
Size (inch)	P/L	Part No.	Pack Qty	W (inch)	Design
1/4	625	* 9847-002	50	0.96	HS
3/8	625	* 9847-003	50	1.11	HS
1/2	625	9847-005	50	1.30	HS
3/4	625	9847-007	25	1.46	HS
1	625	9847-010	25	1.66	HS
1 1/4	625	9847-012	15	1.89	HS
1 1/2	625	9847-015	10	2.08	HS
2	625	9847-020	5	2.32	HS
2 1/2	625	9847-025	5	2.61	HS
3	625	9847-030	5	3.06	HS
4	625	9847-040	5	3.69	HS
5	H04	* 9847-050FS	2	4.44	FAB
6	625	9847-060	2	4.86	HS
8	625	9847-080	2	6.25	SL
10	B10	9847-100	1	7.92	SL
12	B10	9847-120	1	9.37	SL
14	A34	* 9847-140N	1	5.75	FAB
16	A34	* 9847-160N	1	7.00	FAB
18	A34	* 9847-180N	1	8.25	FAB
20	A34	* 9847-200N	1	8.75	FAB
24	A34	* 9847-240N	1	10.25	FAB

**Cap (FPT)**



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

**Plug (MPT)**

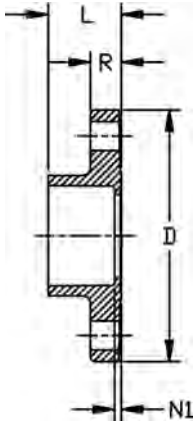


Size (inch)	P/L	Part No.	Pack Qty	L (inch)	R (inch)	Design
¼	625	* 9850-002	50	0.81	0.22	HS
⅜	625	* 9850-003	50	0.83	0.22	HS
½	625	9850-005	50	0.98	0.22	HS
¾	625	9850-007	50	1.06	0.25	HS
1	625	9850-010	25	1.24	0.27	HS
1 ¼	625	9850-012	25	1.33	0.31	HS
1 ½	625	9850-015	20	1.38	0.34	HS
2	625	9850-020	10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

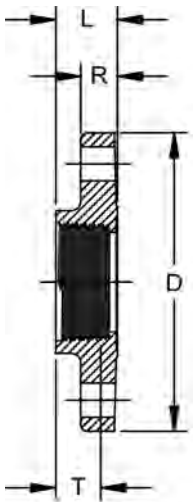


Size (inch)	P/L	Part No.	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	N1 (inch)	R (inch)	Design
½	625	<b>9851-005</b>	5	4	½	2.38	3.50	1.03	0.13	0.39	HC
¾	625	<b>9851-007</b>	5	4	½	2.75	3.89	1.14	0.13	0.45	HC
1	625	<b>9851-010</b>	5	4	½	3.13	4.28	1.29	0.16	0.52	HC
1 ¼	625	<b>9851-012</b>	5	4	½	3.50	4.64	1.45	0.14	0.59	HC
1 ½	625	<b>9851-015</b>	5	4	½	3.88	5.01	1.54	0.16	0.68	HC
2	625	<b>9851-020</b>	5	4	⅝	4.75	6.01	1.73	0.16	0.69	HC
2 ½	625	<b>9851-025</b>	5	4	⅝	5.50	7.00	1.99	0.17	0.75	HC
3	625	<b>9851-030</b>	5	4	⅝	6.00	7.51	2.46	0.57	1.10	HC
4	625	<b>9851-040</b>	5	8	⅝	7.50	9.04	2.79	0.52	1.19	HC
5	H02	<b>*9851-050S</b>	1	8	¾	8.50	10.13	3.25	0.25	1.00	HC
6	625	<b>9851-060</b>	2	8	¾	9.50	11.13	3.86	0.36	1.38	HC
8	H02	<b>*9851-080S</b>	1	8	¾	11.75	13.50	4.56	0.56	1.44	HC

**Flange - One Piece (FPT)**



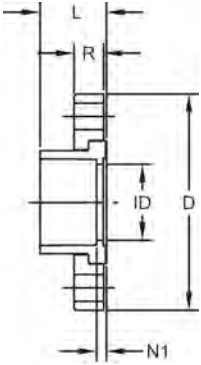
- ANSI 150 Class according to ANSI B16.5
- 75 psi @ 73°F (5.2 bar @ 22.7°C)
- HC = Honeycomb (Face)



Size (inch)	P/L	Part No.	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	T (inch)	R (inch)	Design
½	625	<b>^9852-005</b>	5	4	½	2.38	3.51	0.89	0.77	0.39	HC
¾	625	<b>^9852-007</b>	5	4	½	2.75	3.89	0.91	0.79	0.45	HC
1	625	<b>^9852-010</b>	5	4	½	3.13	4.28	1.13	1.00	0.53	HC
1 ¼	625	<b>^9852-012</b>	5	4	½	3.50	4.62	1.20	1.06	0.58	HC
1 ½	625	<b>^9852-015</b>	5	4	½	3.88	4.99	1.19	1.03	0.68	HC
2	625	<b>^9852-020</b>	5	4	⅝	4.75	6.02	1.22	1.06	0.70	HC
2 ½	625	<b>^9852-025</b>	5	4	⅝	5.50	7.00	1.72	1.53	0.75	HC
3	625	<b>^9852-030</b>	5	4	⅝	6.00	7.50	2.15	1.63	1.15	HC
4	625	<b>^9852-040</b>	5	8	⅝	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.
1/2	625	9854-005
3/4	625	9854-007
1	625	9854-010
1 1/4	625	9854-012
1 1/2	625	9854-015
2	625	9854-020
2 1/2	625	9854-025
3	625	9854-030
4	625	9854-040
5	H02	*9854-050S
6	625	9854-060
8	625	9854-080
10	B10	9854-100
12	B10	9854-120
14	A34	*9854-140N
16	A34	*9854-160N
18	A34	*9854-180N
20	A34	*9854-200N
24	A34	*9854-240N

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

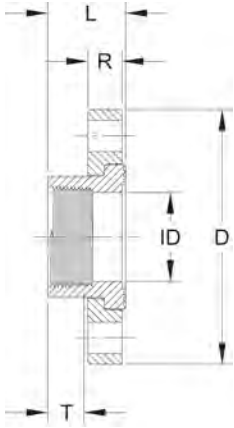
**Flange - Van Stone (FPT)**



- 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.
1	625	^ 9855-010
1 ¼	625	^ 9855-012
1 ½	625	^ 9855-015
2	625	^ 9855-020

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

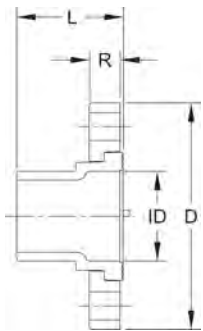


**Flange - Van Stone (SPG)**



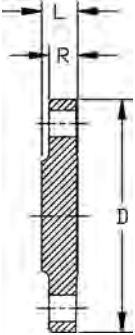
- ANSI 150 Class according to ANSI B16.5
- 1/2" - 12" pressure rating is 150 psi @ 73°F (10.3 bar @ 22.7°C)
- 14" - 24" pressure rating is 100 psi @ 73°F (6.9 bar @ 22.7°C) - Steel Ring
- HC = Honeycomb (Face)

Size (inch)	P/L	Part No.	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	R (inch)	ID (inch)	Design
½	625	9856-005	5	4	½	2.38	3.53	1.72	0.57	0.84	HC
¾	625	9856-007	5	4	½	2.75	3.87	1.85	0.59	1.05	HC
1	625	9856-010	5	4	½	3.13	4.25	2.10	0.66	1.32	HC
1 ¼	625	9856-012	5	4	½	3.50	4.62	2.28	0.69	1.66	HC
1 ½	625	9856-015	5	4	½	3.88	5.01	2.48	0.75	1.90	HC
2	625	9856-020	5	4	¾	4.75	6.02	2.80	0.82	2.38	HC
2 ½	625	9856-025	5	4	¾	5.50	7.01	3.27	0.98	2.86	HC
3	625	9856-030	5	4	¾	6.00	7.50	3.60	1.02	3.49	HC
4	625	9856-040	5	8	¾	7.50	8.99	4.10	1.10	4.49	HC
6	625	9856-060	2	8	¾	9.50	10.98	5.10	1.25	6.60	HC
8	625	9856-080	1	8	¾	11.75	13.51	6.88	1.71	8.62	HC
10	B10	9856-100	1	12	¾	14.25	15.97	8.30	1.73	10.70	HC
12	B10	9856-120	1	12	¾	17.00	18.95	9.55	1.72	12.69	HC
14	A34	* 9856-140N	1	12	1	18.75	21.00	13.00	0.50	11.41	FAB
16	A34	* 9856-160N	1	16	1	21.25	23.50	14.00	0.50	13.08	FAB
18	A34	* 9856-180N	1	16	1 ⅛	22.75	25.00	16.00	0.50	14.76	FAB
20	A34	* 9856-200N	1	20	1 ⅛	25.00	27.50	18.00	0.50	16.43	FAB
24	A34	* 9856-240N	1	20	1 ¼	29.50	32.00	20.00	0.50	19.79	FAB



**Flange (Blind)**

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

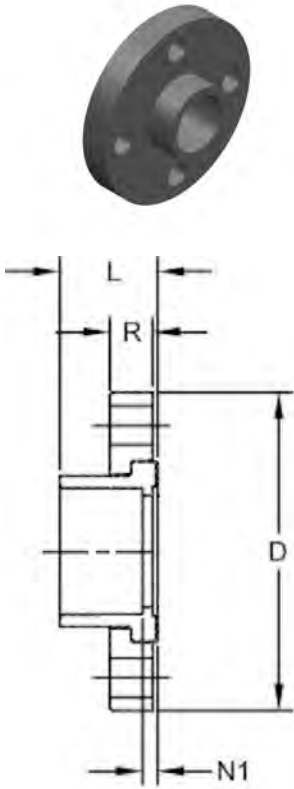


Size (inch)	P/L	Part No.	Pack Qty	# holes	Bolt Dia. (inch)	bolt cir. dia. (inch)	D (inch)	L (inch)	R (inch)	Design
1/2	625	<b>9853-005</b>	5	4	1/2	2.38	3.51	0.48	0.39	HC
3/4	625	<b>9853-007</b>	5	4	3/4	2.75	3.90	0.55	0.45	HC
1	625	<b>9853-010</b>	5	4	1/2	3.13	4.29	0.66	0.53	HC
1 1/4	625	<b>9853-012</b>	5	4	1/2	3.50	4.62	0.73	0.59	HC
1 1/2	625	<b>9853-015</b>	5	4	1/2	3.88	5.01	0.81	0.68	HC
2	625	<b>9853-020</b>	5	4	3/4	4.75	6.02	0.90	0.70	HC
2 1/2	625	<b>9853-025</b>	5	4	3/4	5.50	7.00	0.97	0.76	HC
3	625	<b>9853-030</b>	5	4	3/4	6.00	7.45	1.03	1.03	HC
4	625	<b>9853-040</b>	5	8	3/4	7.50	8.96	1.14	1.14	HC
5	H04	<b>* 9853-050FS</b>	1	8	5	8.50	10.06	1.00	1.00	HC
6	625	<b>9853-060</b>	2	8	3/4	9.50	10.95	1.51	1.27	HC
8	625	<b>9853-080</b>	2	8	3/4	11.75	13.51	1.62	1.45	HC
10	A34	<b>* 9853-100N</b>	1	12	7/8	14.25	16.00	1.00	1.00	SOLID
12	A34	<b>* 9853-120N</b>	1	12	7/8	17.00	19.00	1.00	1.00	SOLID
14	A34	<b>* 9853-140N</b>	1	12	1	18.75	21.00	1.00	1.00	SOLID
16	A34	<b>* 9853-160N</b>	1	16	1	21.25	23.50	1.00	1.00	SOLID
18	A34	<b>* 9853-180N</b>	1	16	1 1/4	22.75	25.00	1.00	1.00	SOLID
20	A34	<b>* 9853-200N</b>	1	20	1 1/4	25.00	27.50	1.00	1.00	SOLID
24	A34	<b>* 9853-240N</b>	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)

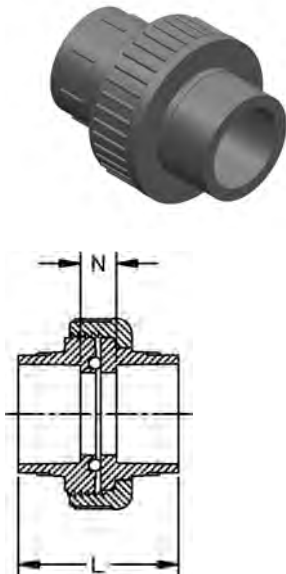


Size (inch)	P/L	Part No.
½	25	* 9854-005-300
¾	25	* 9854-007-300
1	25	* 9854-010-300
1 ¼	25	* 9854-012-300
1 ½	25	* 9854-015-300
2	25	* 9854-020-300
2 ½	25	* 9854-025-300
3	25	* 9854-030-300
4	25	* 9854-040-300
6	25	* 9854-060-300
8	25	* 9854-080-300
10	02	* 9854-100-300
12	02	* 9854-120-300

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	0.56	FAB
¾	5	4	⅝	3.25	4.63	1.15	0.13	0.62	FAB
1	5	4	⅝	3.50	4.88	1.38	0.11	0.69	FAB
1 ¼	5	4	⅝	3.88	5.25	1.45	0.14	0.75	FAB
1 ½	5	4	¾	4.50	6.13	1.59	0.15	0.81	FAB
2	5	8	⅝	5.00	6.50	1.76	0.20	0.88	FAB
2 ½	5	8	¾	5.88	7.50	2.05	0.22	1.00	FAB
3	5	8	¾	6.63	8.25	2.25	0.30	1.12	FAB
4	5	8	¾	7.88	10.00	2.65	0.34	1.25	FAB
6	2	12	¾	10.63	12.50	3.45	0.35	1.44	FAB
8	2	12	⅞	13.00	15.00	4.50	0.40	1.62	FAB
10	2	16	1	15.25	17.50	5.63	0.50	1.88	FAB
12	2	16	1 ¼	17.75	20.50	6.69	0.56	2.00	FAB

**Union Type 375 (S x S)**

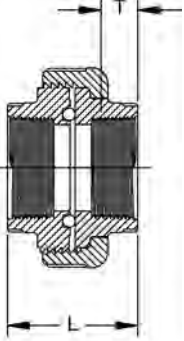
235 psi @ 73°F (16.2 bar @ 22.7°C)



Size (inch)	P/L	EPDM Part No.	FKM Part No.	Pack Qty	L (inch)	N (inch)
½	625	9897-375-005	9857-375-005	25	2.56	0.78
¾	625	9897-375-007	9857-375-007	10	2.80	0.76
1	625	9897-375-010	9857-375-010	5	3.22	0.89
1 ¼	625	9897-375-012	9857-375-012	5	3.56	0.99
1 ½	625	9897-375-015	9857-375-015	5	3.76	0.92
2	625	9897-375-020	9857-375-020	2	4.18	1.11

**Union Type 375 (FPT X FPT)**

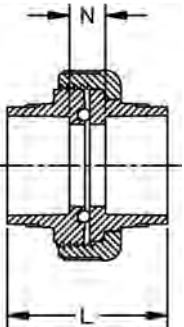
- 117 psi @ 73°F (8.1 bar @ 22.7°C)



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

**Union (S x S)**

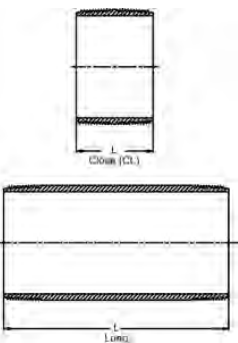
- 150 psi @ 73°F (10.3 bar @ 22.7°C)



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

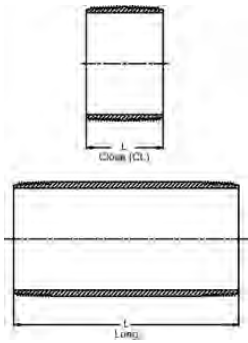
**Nipple (MPT x MPT)**

- Nipples fabricated from pipe



Size (inch)	P/L	Part No.	Pack Qty	L (inch)
1/2 x CL	625	* 9861-077	25	1.13
1/2 x 2	625	* 9861-079	25	2.00
1/2 x 3	625	* 9861-081	25	3.00
1/2 x 4	625	* 9861-082	25	4.00
1/2 x 5	625	* 9861-083	25	5.00
1/2 x 6	625	* 9861-084	25	6.00
1/2 x 8	625	9861-086	25	8.00
3/4 x CL	625	* 9861-104	25	1.38
3/4 x 2	625	* 9861-020	25	2.00
3/4 x 3	625	* 9861-106	25	3.00
3/4 x 4	625	* 9861-107	25	4.00
3/4 x 5	625	* 9861-108	25	5.00
3/4 x 6	625	* 9861-109	25	6.00
3/4 x 8	625	9861-112	25	8.00
1 x CL	625	* 9861-133	25	1.50

table continued on the next page

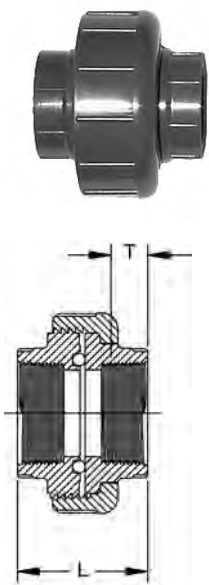


Size (inch)	P/L	Part No.	Pack Qty	L (inch)
1 x 2	625	*9861-134	25	2.00
1 x 3	625	*9861-135	25	3.00
1 x 4	625	*9861-136	25	4.00
1 x 5	625	*9861-137	25	5.00
1 x 6	625	*9861-138	25	6.00
1 1/4 x CL	625	*9861-170	25	1.63
1 1/4 x 2	625	*9861-171	25	2.00
1 1/4 x 3	625	*9861-172	25	3.00
1 1/4 x 4	625	*9861-173	25	4.00
1 1/4 x 5	625	*9861-174	25	5.00
1 1/4 x 6	625	*9861-175	25	6.00
1 1/2 x CL	625	*9861-213	25	1.75
1 1/2 x 2	625	*9861-214	25	2.00
1 1/2 x 3	625	*9861-215	25	3.00
1 1/2 x 4	625	*9861-216	25	4.00
1 1/2 x 5	625	*9861-217	25	5.00
1 1/2 x 6	625	*9861-218	25	6.00
1-1/2 x 12	625	9861-221	25	12.00
2 x CL	625	*9861-251	25	2.00
2 x 2 1/2	625	*9861-252	25	2.50
2 x 3	625	*9861-253	25	3.00
2 x 4	625	*9861-254	25	4.00
2 x 5	625	*9861-255	25	5.00
2 x 6	625	*9861-256	25	6.00
2 x 12	625	9861-259	25	12.00
2 1/2 x CL	625	*9861-291	10	2.50
2 1/2 x 3	625	*9861-292	10	3.00
2 1/2 x 4	625	*9861-295	10	4.00
2 1/2 x 5	625	*9861-296	10	5.00
2 1/2 x 6	625	*9861-297	10	6.00
3 x CL	625	*9861-338	10	2.63
3 x 3	625	*9861-340	10	3.00
3 x 4	625	*9861-341	10	4.00
3 x 5	625	*9861-342	10	5.00
3 x 6	625	*9861-343	10	6.00
4 x CL	625	*9861-422	10	2.88
4 x 4	625	*9861-423	10	4.00
4 x 5	625	*9861-425	10	5.00
4 x 6	625	*9861-426	10	6.00

**Union (FPT X FPT)**

- 75 psi @ 73°F (5.2 bar @ 22.7°C)

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

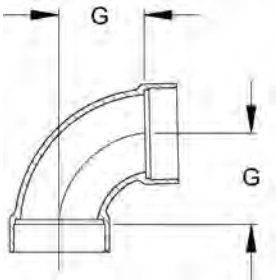


# Schedule 80 CPVC DWV Fittings



## 1/4 Bend Short Sweep (SxS)

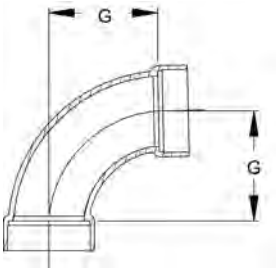
Size (inch)	P/L	Part No.	Pack Qty	G (inch)
1 1/2	625	<b>9806-015SS</b>	4	1.75
2	625	<b>9806-020SS</b>	4	2.31
3	625	<b>9806-030SS</b>	1	3.06
4	625	<b>9806-040SS</b>	1	3.88



## 1/4 Bend Long Sweep (SxS) - FAB



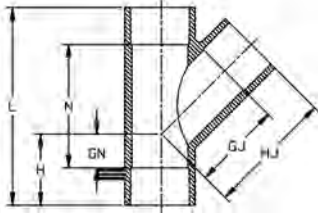
Size (inch)	P/L	Part No.	Pack Qty	G (inch)
1 1/2	A34	<b>*9806-015LSN</b>	4	4.13
2	A34	<b>*9806-020LSN</b>	4	4.75
3	A34	<b>*9806-030LSN</b>	1	7.00
4	A34	<b>*9806-040LSN</b>	1	9.00



**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)

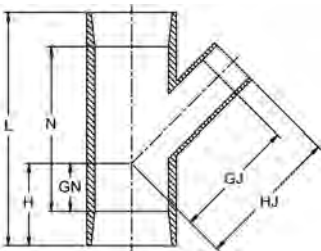


Size (inch)	P/L	Part No.	Pack Qty	GJ (inch)	GN (inch)	H (inch)	HJ (inch)	L (inch)	N (inch)	Design
1 1/2	625	<b>9870-015</b>	20	2.79	1.20	2.60	4.18	6.80	4.02	SL
2	625	<b>9870-020</b>	10	3.56	1.36	2.87	5.07	7.99	4.97	SL
3	625	<b>9870-030</b>	4	4.91	1.82	3.73	6.83	10.45	6.62	SL
4	625	<b>9870-040</b>	4	6.26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

**Reducing 45° Wye (S x S x S)**

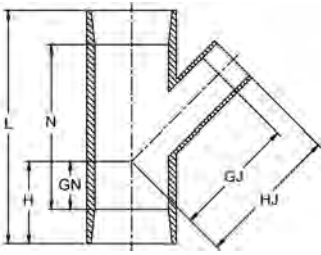


2" 235 psi @ 72°F (16.2 bar @ 22.7° C)  
 3" - 6" 150 psi @ 72°F (10.3 bar @ 22.7°C)  
 8" - 24" 100 psi @ 72°F (6.9 bar @ 22.7°C)



Size (inch)	P/L	Part No.	Pack Qty	GJ (inch)	GN (inch)	H (inch)	HJ (inch)	L (inch)	N (inch)	Design
2 x 1 1/2	625	<b>*9870-251FB</b>	10	3.96	1.36	2.87	5.37	7.99	4.97	BUSH
3 x 1 1/2	625	<b>*9870-337FB</b>	4	5.80	1.82	3.73	7.34	10.45	6.62	BUSH
3 x 2	625	<b>*9870-338FB</b>	4	5.77	1.82	3.73	7.33	10.45	6.62	BUSH
4 x 2	625	<b>*9870-420FB</b>	4	7.40	2.06	4.41	7.40	12.94	8.24	BUSH
4 x 3	625	<b>*9870-422FB</b>	4	7.03	2.06	4.41	9.00	12.94	8.24	BUSH
6 x 2	625	<b>*9870-528FB</b>	1	8.24	1.87	4.91	8.24	16.49	10.42	BUSH
6 x 3	625	<b>*9870-530FB</b>	2	7.88	1.87	4.91	9.84	16.49	10.42	BUSH
6 x 4	625	<b>9870-532</b>	2	7.14	1.87	4.91	9.36	16.49	10.42	HS
8 x 3	625	<b>*9870-580FB</b>	1	10.23	0.41	4.43	12.20	15.98	7.95	BUSH
8 x 4	625	<b>*9870-582FB</b>	1	13.95	2.06	6.06	16.21	21.25	13.31	BUSH
8 x 6	625	<b>*9870-585FB</b>	1	12.78	1.90	5.92	15.76	21.35	13.30	BUSH
10 x 4	A34	<b>*9875-623N</b>	1	14.00	1.25	6.25	16.00	23.00	13.00	FAB
10 x 6	A34	<b>*9875-626N</b>	1	16.13	2.75	7.50	19.13	26.00	16.00	FAB
10 x 8	A34	<b>*9875-628N</b>	1	17.50	4.00	9.25	21.50	28.00	18.75	FAB
12 x 4	A34	<b>*9875-663N</b>	1	15.50	0.50	6.00	17.50	25.75	13.75	FAB
12 x 6	A34	<b>*9875-666N</b>	1	16.68	2.00	8.00	20.50	28.68	16.68	FAB
12 x 8	A34	<b>*9875-668N</b>	1	19.00	3.50	9.50	23.00	31.50	19.50	FAB
12 x 10	A34	<b>*9875-670N</b>	1	21.25	5.00	11.00	26.25	34.50	22.50	FAB
14 x 4	A34	<b>*9875-696N</b>	1	16.25	0.25	7.25	18.25	28.25	14.25	FAB
14 x 6	A34	<b>*9875-698N</b>	1	18.50	1.75	8.63	21.50	31.25	17.25	FAB
14 x 8	A34	<b>*9875-700N</b>	1	19.75	3.00	10.00	23.75	34.00	20.00	FAB
14 x 10	A34	<b>*9875-702N</b>	1	22.00	4.50	11.50	27.00	37.00	23.00	FAB
14 x 12	A34	<b>*9875-704N</b>	1	23.50	6.00	13.00	29.50	39.75	25.75	FAB
16 x 4	A34	<b>*9875-730N</b>	1	17.75	-0.75	7.50	19.75	31.00	15.00	FAB
16 x 6	A34	<b>*9875-732N</b>	1	19.88	1.00	9.00	22.88	34.00	18.00	FAB
16 x 8	A34	<b>*9875-734N</b>	1	21.25	2.50	10.25	25.25	36.75	20.75	FAB
16 x 10	A34	<b>*9875-736N</b>	1	23.50	4.00	12.00	28.50	39.75	23.75	FAB
16 x 12	A34	<b>*9875-738N</b>	1	25.00	5.50	14.25	31.00	42.75	26.75	FAB
16 x 14	A34	<b>*9875-740N</b>	1	27.25	6.25	15.25	34.25	44.50	28.50	FAB
18 x 4	A34	<b>*9875-784N</b>	1	19.00	-1.25	8.00	21.00	34.00	16.00	FAB
18 x 6	A34	<b>*9875-786N</b>	1	21.25	0.50	9.50	24.25	37.00	19.00	FAB
18 x 8	A34	<b>*9875-788N</b>	1	22.75	2.00	11.00	26.75	39.75	21.75	FAB
18 x 10	A34	<b>*9875-790N</b>	1	25.00	3.50	12.50	30.00	42.75	24.75	FAB
18 x 12	A34	<b>*9875-792N</b>	1	26.25	4.75	13.75	32.50	45.50	27.50	FAB

table continued on the next page

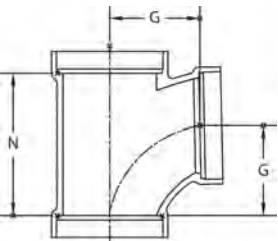


Size (inch)	P/L	Part No.	Pack Qty	GJ (inch)	GN (inch)	H (inch)	HJ (inch)	L (inch)	N (inch)	Design
18 x 14	A34	*9875-794N	1	28.75	5.75	14.75	35.75	48.50	29.50	FAB
18 x 16	A34	*9875-796N	1	30.25	7.25	16.00	38.25	50.25	32.25	FAB
20 x 4	A34	*9875-814N	1	20.50	-1.75	8.50	22.50	36.75	16.75	FAB
20 x 6	A34	*9875-816N	1	22.75	-0.25	10.00	25.75	39.75	19.75	FAB
20 x 8	A34	*9875-818N	1	24.25	1.50	11.50	28.25	42.75	22.75	FAB
20 x 10	A34	*9875-820N	1	26.50	3.00	13.00	31.50	45.75	25.75	FAB
20 x 12	A34	*9875-822N	1	28.00	4.25	14.25	34.00	48.50	28.50	FAB
20 x 14	A34	*9875-824N	1	30.25	5.25	15.00	37.25	50.25	30.25	FAB
20 x 16	A34	*9875-826N	1	31.75	6.50	16.50	39.75	53.00	33.00	FAB
20 x 18	A34	*9875-828N	1	34.00	8.00	18.00	43.00	56.00	36.00	FAB
24 x 4	A34	*9875-904N	1	23.25	-3.00	9.25	25.25	42.50	18.50	FAB
24 x 6	A34	*9875-906N	1	25.50	-1.50	10.75	28.50	45.50	21.54	FAB
24 x 8	A34	*9875-908N	1	27.00	0.00	12.00	31.00	48.25	24.25	FAB
24 x 10	A34	*9875-910N	1	29.25	1.75	13.50	34.25	51.25	27.25	FAB
24 x 12	A34	*9875-912N	1	30.50	3.25	15.00	36.60	54.25	30.25	FAB
24 x 14	A34	*9875-914N	1	33.00	4.00	16.00	40.00	56.00	32.00	FAB
24 x 16	A34	*9875-916N	1	34.50	5.50	17.50	42.50	58.75	34.75	FAB
24 x 18	A34	*9875-918N	1	36.75	6.75	18.75	45.75	61.50	37.50	FAB
24 x 20	A34	*9875-920N	1	38.25	8.25	20.25	48.25	64.50	40.50	FAB



**Sanitary Tee (SxSxS)**

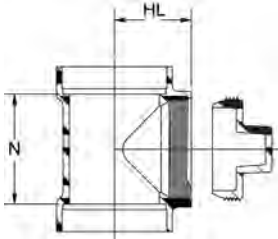
Size (inch)	P/L	Part No.	Pack Qty	G (inch)	N (inch)
1 1/2	625	37S461501	5	1.75	2.75
2	625	37S461502	5	2.31	3.69
3	625	37S461503	5	3.06	4.88
4	625	37S461504	5	3.88	6.13



**Cleanout Tee with Plug (SxSxFPT)**



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



# Schedule 80 CPVC Metal Transition Fittings



## Metal Union End Connectors Type 375 (316 SS)

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

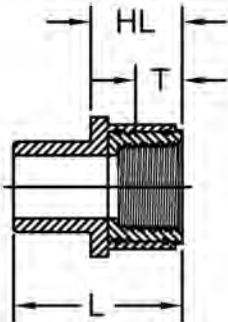
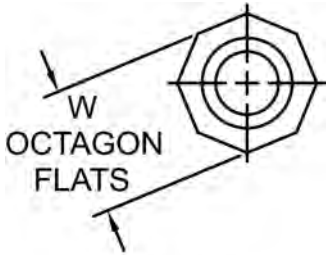
Size (inch)	P/L	Part No.	Pack Qty
½	A35	* 37X003314	1
¾	A35	* 37X003315	1
1	A35	* 37X003316	1
1 ¼	A35	* 37X003317	1
1 ½	A35	* 37X003318	1
2	A35	* 37X003319	1

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

150 psi @ 73°F (10.3 bar @ 22.7°C)



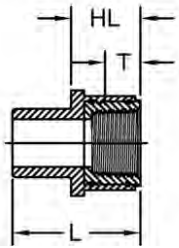
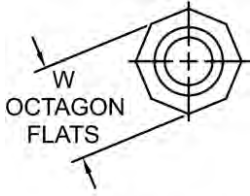
Size (inch)	P/L	Part No.	Pack Qty	HL (inch)	L (inch)	T (inch)	W (inch)
½	A35	9878-005BR	25	1.02	1.75	0.70	1.27
¾	A35	9878-007BR	15	1.07	2.07	0.74	1.52
1	A35	9878-010BR	15	1.32	2.44	0.81	1.93
1 ¼	A35	9878-012BR	15	1.38	2.49	0.85	2.29
1 ½	A35	9878-015BR	10	1.44	2.74	0.87	2.60
2	A35	9878-020BR	5	1.43	2.81	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.	Pack Qty	HL (inch)	L (inch)	T (inch)	W (inch)
½	A35	<b>9878-005SS</b>	25	1.02	1.75	0.70	1.27
¾	A35	<b>9878-007SS</b>	15	1.07	2.07	0.74	1.52
1	A35	<b>9878-010SS</b>	15	1.32	2.44	0.81	1.93
1 ¼	A35	<b>9878-012SS</b>	15	1.38	2.49	0.85	2.29
1 ½	A35	<b>9878-015SS</b>	10	1.45	2.74	0.87	2.60
2	A35	<b>9878-020SS</b>	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.	Pack Qty
½	A35	<b>1694-005</b>	1
¾	A35	<b>1694-007</b>	1
1	A35	<b>1694-010</b>	1
1 ¼	A35	<b>1694-012</b>	1
1 ½	A35	<b>1694-015</b>	1
2	A35	<b>1694-020</b>	1

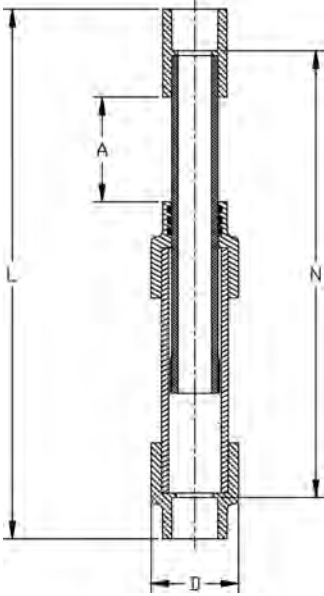
# Schedule 80 CPVC Expansion Joints



## 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.

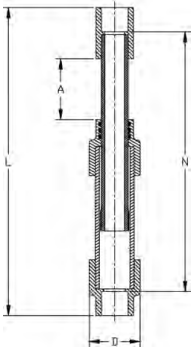
Size (inch)	P/L	EPDM Part No.	FKM Part No.	A (inch)	D (inch)	L (inch)	N (inch)
1/2	634	* 9826-005X6	* 9836-005X6	3.00	1.86	13.97	12.17
3/4	634	* 9826-007X6	* 9836-007X6	3.00	2.23	14.44	12.40
1	634	* 9826-010X6	* 9836-010X6	3.00	2.50	14.98	12.69
1 1/4	634	* 9826-012X6	* 9836-012X6	3.00	2.89	15.56	12.98
1 1/2	634	* 9826-015X6	* 9836-015X6	3.00	3.51	16.00	13.21
2	634	* 9826-020X6	* 9836-020X6	3.00	4.40	18.05	15.01
3	634	* 9826-030X6	* 9836-030X6	3.00	5.52	19.75	16.00
4	634	* 9826-040X6	* 9836-040X6	3.00	7.92	28.29	23.76
6	634	* 9826-060X6	* 9836-060X6	3.00	9.80	27.79	21.73
8	634	* 9826-080X6	* 9836-080X6	3.00	10.75	25.35	17.31
10	634	* 9826-100X6	* 9836-100X6	3.00	12.75	29.64	19.60



## Expansion Joint 12" Travel (S x S)

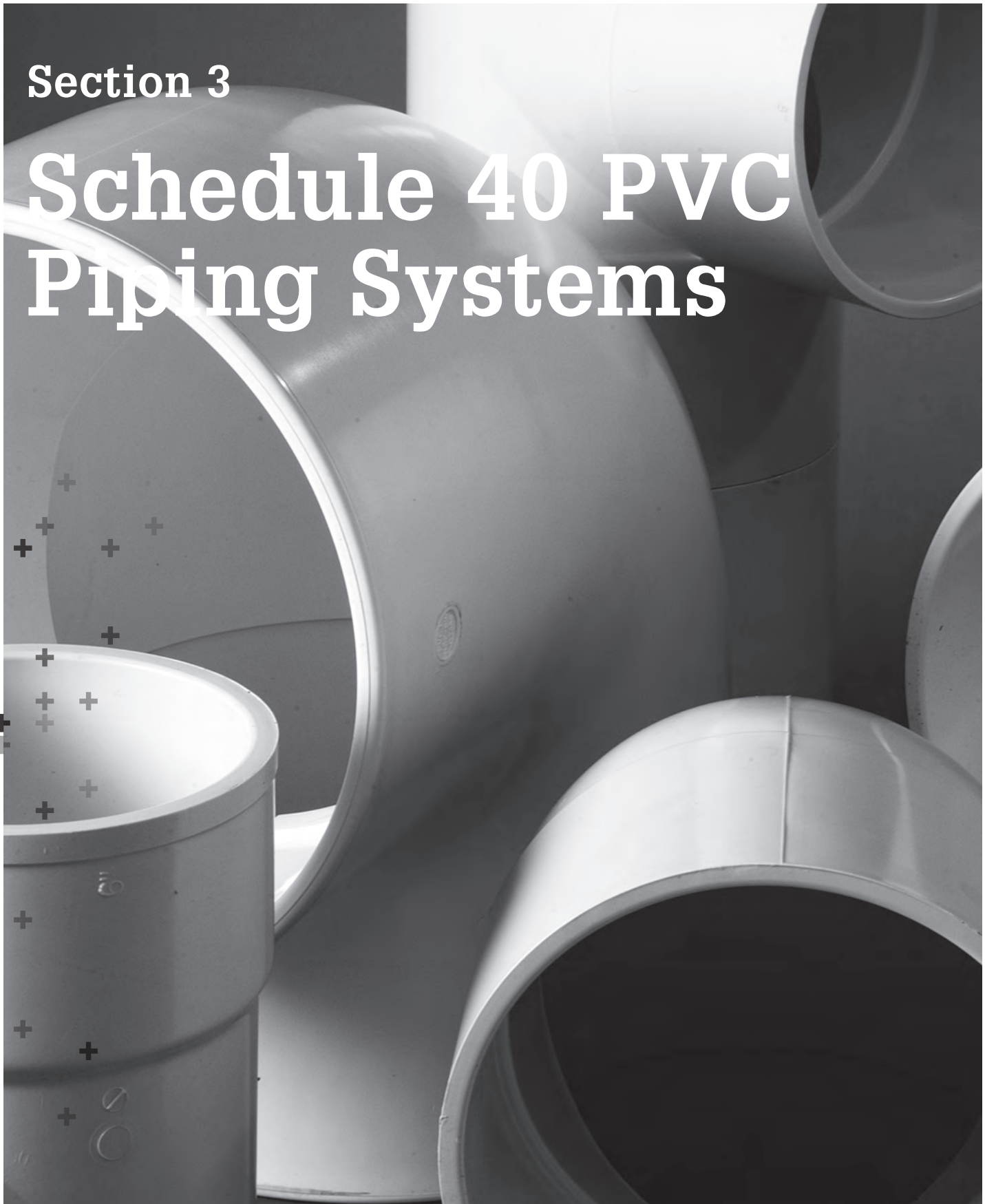
To order SxSPG add "P" to end of part number.  
To order FxF add "F" to end of part number.

Size (inch)	P/L	EPDM Part No.	FKM Part No.	A (inch)	D (inch)	L (inch)	N (inch)
1/2	634	* 9826-005X12	* 9836-005X12	6.00	1.86	23.10	21.30
3/4	634	* 9826-007X12	* 9836-007X12	6.00	2.23	23.57	21.52
1	634	* 9826-010X12	* 9836-010X12	6.00	2.50	24.11	21.81
1 1/4	634	* 9826-012X12	* 9836-012X12	6.00	2.89	24.69	22.11
1 1/2	634	* 9826-015X12	* 9836-015X12	6.00	3.51	25.12	22.34
2	634	* 9826-020X12	* 9836-020X12	6.00	4.40	27.05	24.01
3	634	* 9826-030X12	* 9836-030X12	6.00	5.52	28.75	25.00
4	634	* 9826-040X12	* 9836-040X12	6.00	7.92	37.28	32.76
6	634	* 9826-060X12	* 9836-060X12	6.00	9.80	26.79	30.73
8	634	* 9826-080X12	* 9836-080X12	6.00	10.75	28.35	20.31
10	634	* 9826-100X12	* 9836-100X12	6.00	12.75	32.64	22.60



**Section 3**

# Schedule 40 PVC Piping Systems



## Glossary

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

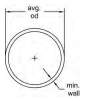
The technical information given in this publication implies no warranty of any kind and is subject to change without notice. Please consult our Terms and Conditions of Sale.

For complete technical information, please consult the GF Harvel Engineering and Installation Guide available online at [www.gfpiping.com/resource.html](http://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.**

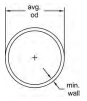
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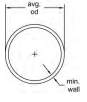
Harvel® Industrial PVC Pressure Pipe

75



Harvel® Industrial PLUS PVC Pressure Pipe

76



Harvel® Schedule 40 PVC Pressure Pipe - Gray

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Schedule 40 PVC Pressure Fittings

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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

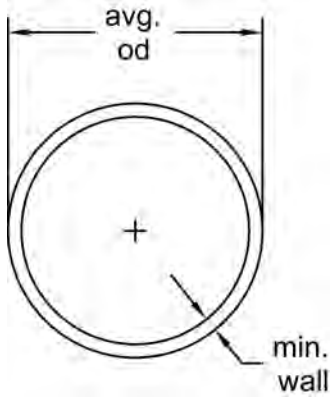
ASTM F 1498 : PVC Schedule 40 Taper Threads

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

ANSI B1.20.1 : PVC Schedule 40 NPT Threads

P0800892

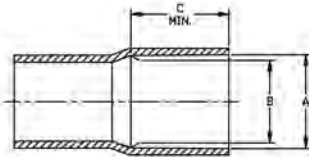
# Harvel® Industrial PVC Pressure Pipe



## 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<sup>®</sup>-pw-G
- Non - CSA Approved

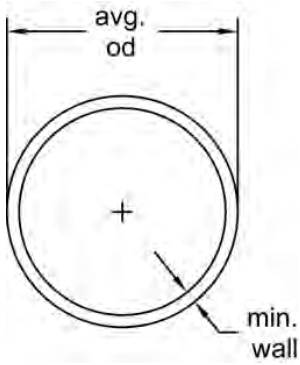
Size (inch)	P/L	Plain End Part No.	Lift Qty (ft)	Average O.D. (inch)	Min. Wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
½	H17	*H0400050PW2000	5700	0.840	0.109	0.161	600
¾	H17	*H0400075PW2000	5260	1.050	0.113	0.214	480
1	H17	*H0400100PW2000	4280	1.315	0.133	0.315	450
1 ¼	H17	*H0400125PW2000	2360	1.660	0.140	0.426	370
1 ½	H17	*H0400150PW2000	2060	1.900	0.145	0.509	330
2	H17	*H0400200PW2000	1660	2.375	0.154	0.682	280
2 ½	H17	*H0400250PW2000	1080	2.875	0.203	1.076	300
3	H17	*H0400300PW2000	840	3.500	0.216	1.409	260
4	H17	*H0400400PW2000	520	4.500	0.237	2.006	220
6	H17	*H0400600PW2000	340	6.625	0.280	3.535	180
8	H17	*H0400800PW2000	220	8.625	0.322	5.305	160
10	H17	*H0401000PW2000	80	10.750	10.750	7.532	140
12	H17	*H0401200PW2000	60	12.750	12.750	9.949	130



## Belled End Pipe - 20 ft lengths

Size (inch)	P/L	Belled End Part No.	A-Socket Entrance (Belled Pipe)	B-Socket Bottom (Belled Pipe)	C-Min. (Belled Pipe)
½	H17	*H0400050PW200B	0.848±0.004	0.836±0.004	1.000
¾	H17	*H0400075PW200B	1.058±0.004	1.046±0.004	1.250
1	H17	*H0400100PW200B	1.325±0.005	1.310±0.005	1.500
1 ¼	H17	*H0400125PW200B	1.670±0.005	1.655±0.005	1.750
1 ½	H17	*H0400150PW200B	1.912±0.006	1.894±0.006	2.000
2	H17	*H0400200PW200B	2.387±0.006	2.363±0.006	2.250
2 ½	H17	*H0400250PW200B	2.889±0.007	2.861±0.007	2.500
3	H17	*H0400300PW200B	3.516±0.008	3.484±0.008	3.250
4	H17	*H0400400PW200B	4.518±0.009	4.482±0.009	4.000
6	H17	*H0400600PW200B	6.647±0.011	6.603±0.011	6.000
8	H17	*H0400800PW200B	8.655±0.015	8.598±0.015	6.000
10	H17	*H0401000PW200B	10.776±0.015	10.722±0.015	7.500
12	H17	*H0401200PW200B	12.778±0.015	12.721±0.015	8.500

# Harvel® Industrial PLUS PVC Pressure Pipe

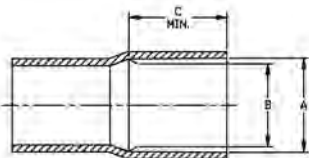


## Plain End Pipe - 20 ft lengths

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

Size (inch)	P/L	Plain End Part No.	Lift Qty (ft)	Average O.D. (inch)	Min. Wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
½	H51	*HX400050PW2000	5700	0.840	0.109	0.161	600
¾	H51	*HX400075PW2000	5260	1.050	0.113	0.214	480
1	H51	*HX400100PW2000	4280	1.315	0.133	0.315	450
1 ¼	H51	*HX400125PW2000	2360	1.660	0.140	0.426	370
1 ½	H51	*HX400150PW2000	2060	1.900	0.145	0.509	330
2	H51	*HX400200PW2000	1660	2.375	0.154	0.682	280
2 ½	H51	*HX400250PW2000	1080	2.875	0.203	1.076	300
3	H51	*HX400300PW2000	840	3.500	0.216	1.409	260
3 ½	H51	*H0400350PW2000	680	4.000	0.226	1.697	240
4	H51	*HX400400PW2000	520	4.500	0.237	2.006	220
5	H51	*H0400500PW2000	400	5.563	0.258	2.726	190
6	H51	*HX400600PW2000	340	6.625	0.280	3.535	180
8	H51	*HX400800PW2000	220	8.625	0.322	5.305	160
10	H51	*HX401000PW2000	80	10.750	0.365	7.532	140
12	H51	*HX401200PW2000	60	12.750	0.406	9.949	130
14	H51	*H0401400PW2000	60	14.000	0.437	11.810	130
16	H51	*H0401600PW2000	60	16.000	0.500	15.416	130
18	H51	*H0401800PW2000	60	18.000	0.562	20.112	130
20	H51	*H0402000PW2000	40	20.000	0.593	23.624	120
24	H51	*H0402400PW2000	40	24.000	0.687	32.873	120

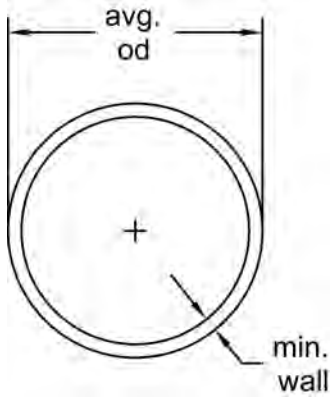
## Belled End Pipe - 20 ft lengths



Size (inch)	P/L	Belled End Part No.	A-Socket Entrance (Belled Pipe)	B-Socket Bottom (Belled Pipe)	C-Min. (Belled Pipe)
½	H51	*HX400050PW200B	0.848±0.004	0.836±0.004	1.000
¾	H51	*HX400075PW200B	1.058±0.004	1.046±0.004	1.250
1	H51	*HX400100PW200B	1.325±0.005	1.310±0.005	1.500
1 ¼	H51	*HX400125PW200B	1.670±0.005	1.655±0.005	1.750
1 ½	H51	*HX400150PW200B	1.912±0.006	1.894±0.006	2.000
2	H51	*HX400200PW200B	2.387±0.006	2.363±0.006	2.250
2 ½	H51	*HX400250PW200B	2.889±0.007	2.861±0.007	2.500
3	H51	*HX400300PW200B	3.516±0.008	3.484±0.008	3.250
3 ½	H51	*H0400350PW200B	4.016±0.008	3.984±0.008	3.500
4	H51	*HX400400PW200B	4.518±0.009	4.482±0.009	4.000
5	H51	*H0400500PW200B	5.583±0.010	5.543±0.010	4.000
6	H51	*HX400600PW200B	6.647±0.011	6.603±0.011	6.000
8	H51	*HX400800PW200B	8.655±0.015	8.598±0.015	6.000
10	H51	*HX401000PW200B	10.776±0.015	10.722±0.015	7.500
12	H51	*HX401200PW200B	12.778±0.015	12.721±0.015	8.500
14	H51	*H0401400PW200B	14.035±0.015	13.985±0.015	9.000
16	H51	*H0401600PW200B	16.045±0.015	15.980±0.015	10.000
18	H51	*H0401800PW200B	18.055±0.020	17.980±0.020	12.000
20	H51	*H0402000PW200B	20.065±0.025	19.980±0.025	12.000
24	H51	*H0402400PW200B	24.075±0.030	23.970±0.030	12.000



# Harvel® Schedule 40 PVC Pressure Pipe - Gray

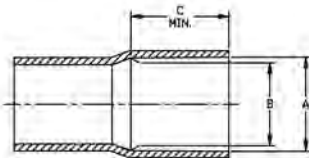


## Plain End Pipe - 20 ft lengths

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

Size (inch)	P/L	Plain End Part No.	Lift Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
1/8	H16	*H0400013PG2000	5700	0.405	0.068	0.045	810
1/4	H16	*H0400025PG2000	5700	0.540	0.088	0.081	780
3/8	H16	*H0400038PG2000	5700	0.675	0.091	0.109	620
1/2	H16	*H0400050PG2000	5700	0.840	0.109	0.161	600
3/4	H16	*H0400075PG2000	5260	1.050	0.113	0.214	480
1	H16	*H0400100PG2000	4280	1.315	0.133	0.315	450
1 1/4	H16	*H0400125PG2000	2360	1.660	0.140	0.426	370
1 1/2	H16	*H0400150PG2000	2060	1.900	0.145	0.509	330
2	H16	*H0400200PG2000	1660	2.375	0.154	0.682	280
2 1/2	H16	*H0400250PG2000	1080	2.875	0.203	1.076	300
3	H16	*H0400300PG2000	840	3.500	0.216	1.409	260
3 1/2	H16	*H0400350PG2000	680	4.000	0.226	1.697	240
4	H16	*H0400400PG2000	520	4.500	0.237	2.006	220
5	H16	*H0400500PG2000	400	5.563	0.258	2.726	190
6	H16	*H0400600PG2000	340	6.625	0.280	3.535	180
8	H16	*H0400800PG2000	220	8.625	0.332	5.305	160
10	H16	*H0401000PG2000	80	10.750	0.365	7.532	140
12	H16	*H0401200PG2000	60	12.750	0.406	9.949	130
14	H16	*H0401400PG2000	60	14.000	0.437	11.810	130
16	H16	*H0401600PG2000	60	16.000	0.500	15.416	130
18	H16	*H0401800PG2000	40	18.000	0.562	20.112	130
20	H16	*H0402000PG2000	40	20.000	0.593	23.624	120
24	H16	*H0402400PG2000	40	24.000	0.687	32.873	120

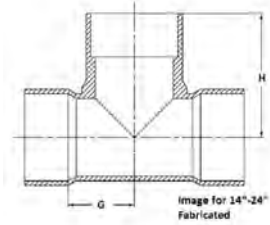
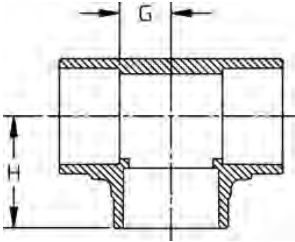
## Belled End Pipe - 20 ft lengths



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

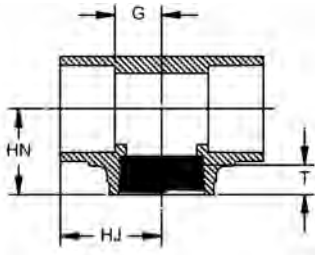
# Schedule 40 PVC Pressure Fittings

## Tee (S x S x S)



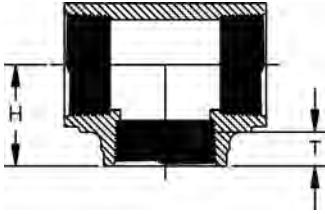
Size (inch)	P/L	Part No.	Pack Qty	H (inch)	G (inch)	Design
½	601	401-005	50	1.25	0.38	
¾	601	401-007	50	1.38	0.56	
1	601	401-010	50	1.69	0.69	
1 ¼	601	401-012	25	2.13	0.88	
1 ½	601	401-015	25	2.31	1.00	
2	601	401-020	25	2.63	1.25	
2 ½	601	401-025	10	3.50	1.50	
3	601	401-030	10	3.81	1.81	
4	601	401-040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

## Tee (S x S X FPT)



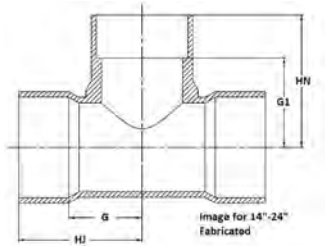
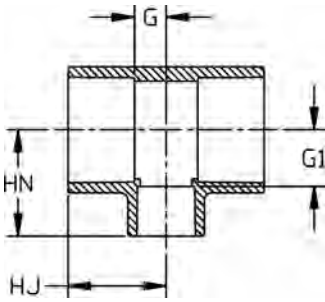
Size (inch)	P/L	Part No.	Pack Qty	HJ (inch)	HN (inch)	G (inch)	T (inch)
½	601	402-005	50	1.25	1.25	0.50	0.75
¾	601	402-007	50	1.38	1.38	0.56	0.81
1	601	402-010	50	1.69	1.69	0.69	1.00
1 ¼	601	402-012	25	2.13	2.13	0.88	0.94
1 ½	601	402-015	25	2.31	2.31	1.00	0.88
2	601	402-020	10	2.63	2.19	1.25	0.94
3	601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

**Tee (FPT x FPT x FPT)**



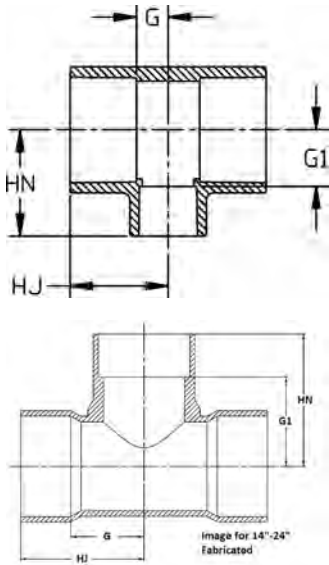
Size (inch)	P/L	Part No.	Pack Qty	H (inch)	T (inch)
½	601	<b>405-005</b>	50	1.25	0.72
¾	601	<b>405-007</b>	50	1.38	0.81
1	601	<b>405-010</b>	50	1.69	1.00
1 ¼	601	<b>405-012</b>	25	2.13	0.88
1 ½	601	<b>405-015</b>	25	2.31	1.31

**Reducing Tee (S x S x S)**



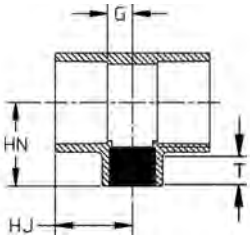
Size (inch)	P/L	Part No.	Pack Qty	HJ (inch)	HN (inch)	G (inch)	G1 (inch)	Design
¾ x ½ x ½	601	<b>401-094</b>	50	1.31	1.31	0.50	0.56	
¾ x ½ x ¾	601	<b>401-095</b>	50	1.31	1.31	0.56	0.56	
¾ x ¾ x ½	601	<b>401-101</b>	50	1.31	1.38	0.50	0.63	
¾ x ¾ x 1	601	<b>401-102</b>	50	1.50	1.56	0.69	0.56	
1 x ½ x 1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

table continued on the next page



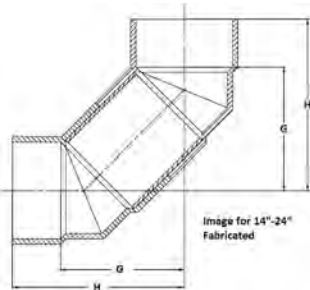
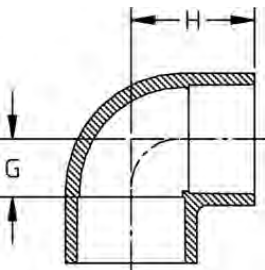
Size (inch)	P/L	Part No.	Pack Qty	HJ (inch)	HN (inch)	G (inch)	G1 (inch)	Design
6 x 6 x 2	601	401-528	5	4.75	4.94	1.25	3.50	
6 x 6 x 3	601	401-530	5	5.38	5.56	1.81	3.56	
6 x 6 x 4	601	401-532	5	5.88	5.56	2.38	3.50	
8 x 8 x 4	601	401-582	2	6.81	6.94	2.31	4.88	
8 x 8 x 6	601	401-585	2	8.00	8.06	3.50	4.50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

**Reducing Tee (S x S x FPT)**



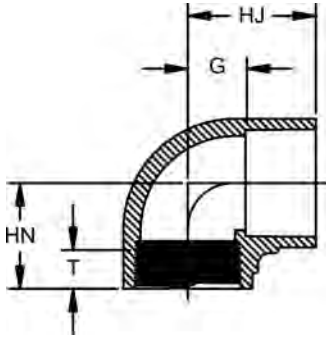
Size (inch)	P/L	Part No.	Pack Qty	HJ (inch)	HN (inch)	G (inch)	T (inch)
¾ x ¾ x ½	601	<b>402-101</b>	50	1.31	1.31	0.50	0.75
1 x 1 x ½	601	<b>402-130</b>	50	1.50	1.43	0.50	0.69
1 x 1 x ¾	601	<b>402-131</b>	50	1.56	1.50	0.56	0.75
1 ¼ x 1 ¼ x ¾	601	<b>402-167</b>	25	1.81	1.63	0.56	0.69
1 ¼ x 1 ¼ x 1	601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

**90° Ell (S x S)**



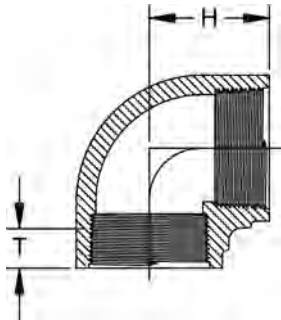
Size (inch)	P/L	Part No.	Pack Qty	H (inch)	G (inch)	Design
½	601	<b>406-005</b>	50	1.25	0.50	
¾	601	<b>406-007</b>	50	1.38	0.56	
1	601	<b>406-010</b>	50	1.69	0.69	
1 ¼	601	<b>406-012</b>	25	2.13	0.88	
1 ½	601	<b>406-015</b>	25	2.25	1.00	
2	601	<b>406-020</b>	25	2.56	1.25	
2 ½	601	<b>406-025</b>	10	3.50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

**90° Ell (S x FPT)**



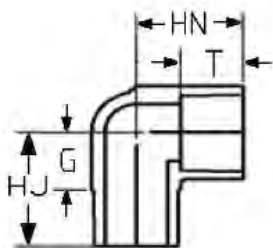
Size (inch)	P/L	Part No.	Pack Qty	HJ (inch)	HN (inch)	G (inch)	T (inch)
½	601	<b>407-005</b>	50	1.25	1.19	0.50	0.75
¾	601	<b>407-007</b>	50	1.38	1.38	0.63	0.81
1	601	<b>407-010</b>	50	1.63	1.69	0.69	1.00
1 ¼	601	<b>407-012</b>	25	2.19	1.81	0.88	0.88
1 ½	601	<b>407-015</b>	25	2.31	2.31	1.00	1.31
2	601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

**90° Ell (FPT x FPT)**



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

**90° Street Ell (S x SPG)**

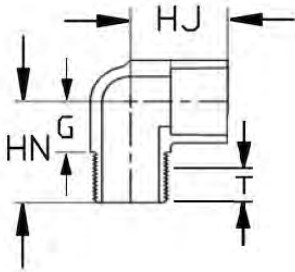


Size (inch)	P/L	Part No.	Pack Qty	HJ (inch)	HN (inch)	G (inch)	T (inch)
½	601	<b>409-005</b>	50	1.31	1.13	0.56	0.81
¾	601	<b>409-007</b>	50	1.63	1.25	0.81	0.75
1	601	<b>409-010</b>	50	1.88	1.44	0.88	0.88
1 ¼	601	<b>409-012</b>	25	2.38	2.13	1.06	1.31
1 ½	601	<b>409-015</b>	25	2.63	2.31	1.25	1.31
2	601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



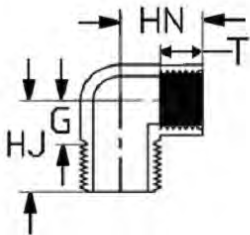
**90° Street Ell (S x MPT)**

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



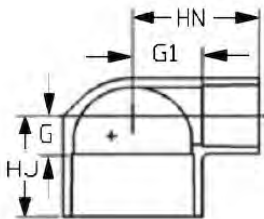
**90° Street Ell (FPT x MPT)**

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

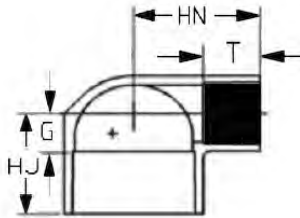


**Reducing 90° Ell (S x S)**

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

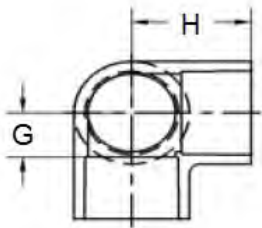


**Reducing 90° Ell (S x FPT)**



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

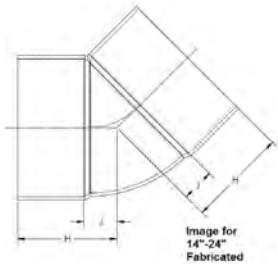
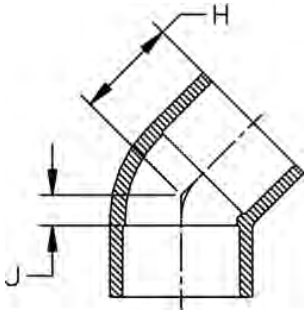
**Side Outlet Elbow (S x S x S)**



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

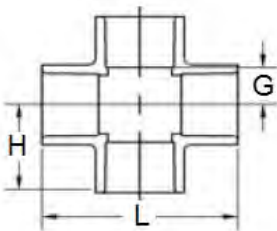


**45° Ell (S x S)**



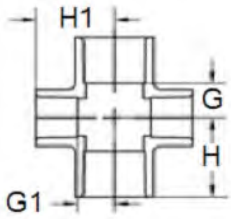
Size (inch)	P/L	Part No.	Pack Qty	H (inch)	J (inch)	Design
½	601	<b>417-005</b>	50	1.06	0.25	
¾	601	<b>417-007</b>	50	1.19	0.38	
1	601	<b>417-010</b>	50	1.44	0.31	
1 ¼	601	<b>417-012</b>	25	1.63	0.38	
1 ½	601	<b>417-015</b>	25	1.69	0.44	
2	601	<b>417-020</b>	25	2.00	0.69	
2 ½	601	<b>417-025</b>	10	2.69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

**Cross (S x S x S x S)**



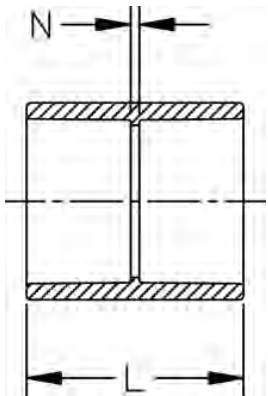
Size (inch)	P/L	Part No.	Pack Qty	L (inch)	H (inch)	G (inch)
½	601	<b>^ 420-005</b>	50	2.44	1.19	0.50
¾	601	<b>^ 420-007</b>	50	2.63	1.31	0.56
1	601	<b>^ 420-010</b>	50	3.38	1.69	0.69
1 ¼	601	<b>^ 420-012</b>	25	4.25	2.13	0.88
1 ½	601	<b>^ 420-015</b>	25	4.63	2.31	1.00
2	601	<b>^ 420-020</b>	10	5.25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

**Reducing Cross (S x S x S x S)**



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

**Coupling (S x S)**



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

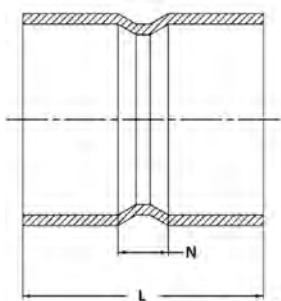
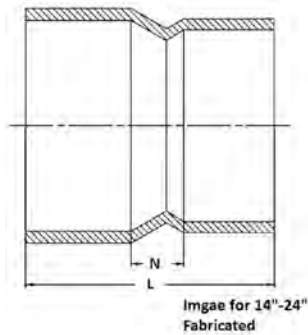
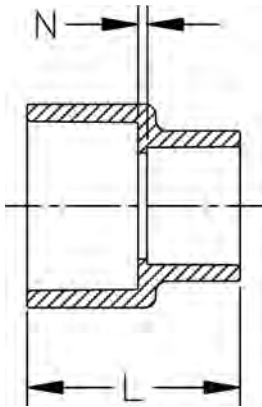


Image for 14"-24"  
Fabricated

**Reducing Coupling (S x S)**

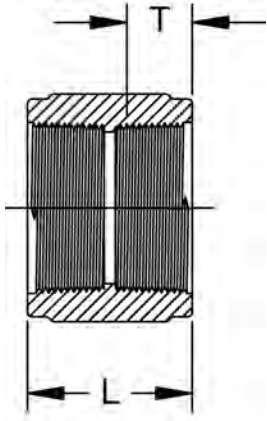


Size (inch)	P/L	Part No.	Pack Qty	L (inch)	N (inch)	Design
¾ x ½	601	<b>429-101</b>	50	1.63	0.13	
1 x ¾	601	<b>429-131</b>	50	2.13	0.25	
1 ¼ x 1	601	<b>429-168</b>	25	2.56	0.31	
1 ½ x 1 ½	601	<b>429-212</b>	25	2.75	0.25	
2 x 1 ½	601	<b>429-251</b>	10	3.13	0.44	
3 x 2	601	<b>429-338</b>	5	4.06	0.63	
4 x 3	601	<b>429-422</b>	4	4.63	0.63	
6 x 4	601	<b>429-532</b>	4	6.63	1.19	
8 x 4	601	<b>429-582</b>	4	8.94	2.38	
8 x 6	601	<b>429-585</b>	4	9.06	1.06	
10 x 6	B09	<b>429-626</b>	1	10.81	2.69	
10 x 8	B09	<b>429-628</b>	1	10.75	1.69	
12 x 8	B09	<b>429-668</b>	1	12.88	2.69	
12 x 10	B09	<b>429-670</b>	1	13.06	1.94	
14 x 4	A32	<b>429-696N</b>	1	10.50	4.75	FAB
14 x 6	A32	<b>429-698N</b>	1	11.50	4.50	FAB
14 x 8	A32	<b>429-700N</b>	1	13.25	5.50	FAB
14 x 10	A32	<b>429-702N</b>	1	17.00	5.00	FAB
14 x 12	A32	<b>429-704N</b>	1	17.00	4.00	FAB
16 x 4	A32	<b>*429-730N</b>	1	10.75	4.50	FAB
16 x 6	A32	<b>*429-732N</b>	1	11.75	4.50	FAB
16 x 8	A32	<b>*429-734N</b>	1	12.25	6.00	FAB
16 x 10	A32	<b>*429-736N</b>	1	20.00	7.00	FAB
16 x 12	A32	<b>*429-738N</b>	1	18.38	4.38	FAB
16 x 14	A32	<b>*429-740N</b>	1	18.50	3.50	FAB
18 x 6	A32	<b>*429-786N</b>	1	12.75	5.00	FAB
18 x 8	A32	<b>*429-788N</b>	1	14.00	6.00	FAB
18 x 10	A32	<b>*429-790N</b>	1	15.75	6.00	FAB
18 x 12	A32	<b>*429-792N</b>	1	22.38	7.38	FAB
18 x 14	A32	<b>*429-794N</b>	1	22.25	6.25	FAB
18 x 16	A32	<b>*429-796N</b>	1	22.38	5.38	FAB
20 x 8	A32	<b>*429-818N</b>	1	14.00	5.75	FAB
20 x 10	A32	<b>*429-820N</b>	1	34.50	19.25	FAB
20 x 12	A32	<b>*429-822N</b>	1	34.75	17.00	FAB
20 x 14	A32	<b>*429-824N</b>	1	33.00	15.75	FAB
20 x 16	A32	<b>*429-826N</b>	1	23.75	5.75	FAB
20 x 18	A32	<b>*429-828N</b>	1	23.50	4.50	FAB
24 x 6	A32	<b>*429-906N</b>	1	14.50	5.25	FAB
24 x 8	A32	<b>*429-908N</b>	1	16.00	6.00	FAB
24 x 10	A32	<b>*429-910N</b>	1	18.00	7.00	FAB
24 x 12	A32	<b>*429-912N</b>	1	40.50	21.75	FAB
24 x 14	A32	<b>*429-914N</b>	1	40.50	21.50	FAB
24 x 16	A32	<b>*429-916N</b>	1	40.50	20.25	FAB
24 x 18	A32	<b>*429-918N</b>	1	29.75	8.75	FAB
24 x 20	A32	<b>*429-920N</b>	1	28.50	6.50	FAB

**Coupling (FPT x FPT)**



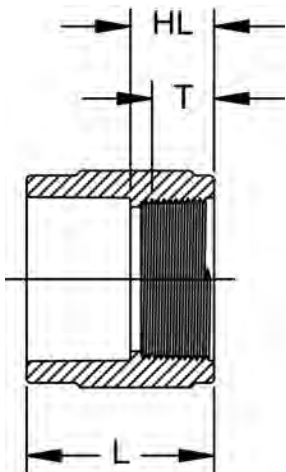
Size (inch)	P/L	Part No.	Pack Qty	L (inch)	T (inch)
½	601	<b>^ 430-005</b>	100	1.56	0.69
¾	601	<b>^ 430-007</b>	50	1.81	0.97
1	601	<b>^ 430-010</b>	50	1.56	1.00
2	601	<b>^ 430-020</b>	25	1.75	0.94



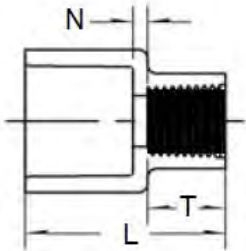
**Female Adapter (S x FPT)**



Size (inch)	P/L	Part No.	Pack Qty	L (inch)	N (inch)
½	601	<b>435-005</b>	100	1.75	0.31
¾	601	<b>435-007</b>	50	1.75	0.31
1	601	<b>435-010</b>	50	2.19	0.13
1 ¼	601	<b>435-012</b>	25	2.25	0.06
1 ½	601	<b>435-015</b>	25	2.25	0.06
2	601	<b>435-020</b>	25	2.44	0.06
2 ½	601	<b>435-025</b>	10	3.75	0.19
3	601	<b>435-030</b>	10	3.75	0.19
4	601	<b>435-040</b>	5	4.00	0.19
6	601	<b>435-060</b>	4	5.75	0.25
8	601	<b>435-080</b>	4	6.94	0.25

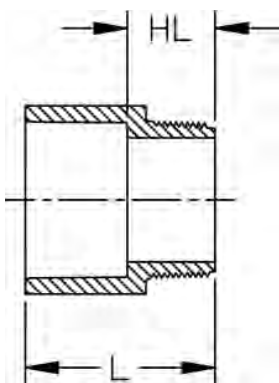


**Reducing Female Adapter (S x FPT)**



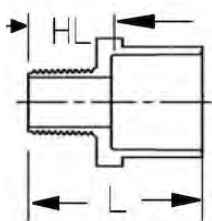
Size (inch)	P/L	Part No.	Pack Qty	L (inch)	N (inch)	T (inch)
¾ x ½	601	<b>435-101</b>	50	1.56	0.13	0.69
¾ x 1	601	<b>435-102</b>	50	1.75	0.06	1.00
1 x ¾	601	<b>435-131</b>	50	1.88	0.00	0.88
1 x 1 ½	601	<b>435-211</b>	25	2.19	0.19	1.00

**Male Adapter (MPT x S)**



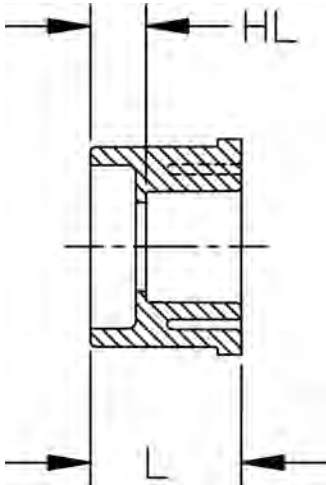
Size (inch)	P/L	Part No.	Pack Qty	HL (inch)	L (inch)
½	601	<b>436-005</b>	100	0.69	1.56
¾	601	<b>436-007</b>	50	0.25	1.56
1	601	<b>436-010</b>	50	1.00	2.00
1 ¼	601	<b>436-012</b>	25	1.25	2.50
1 ½	601	<b>436-015</b>	25	1.19	2.50
2	601	<b>436-020</b>	25	1.31	2.69
2 ½	601	<b>436-025</b>	10	1.88	3.88
3	601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

**Reducing Male Adapter (MPT x S)**



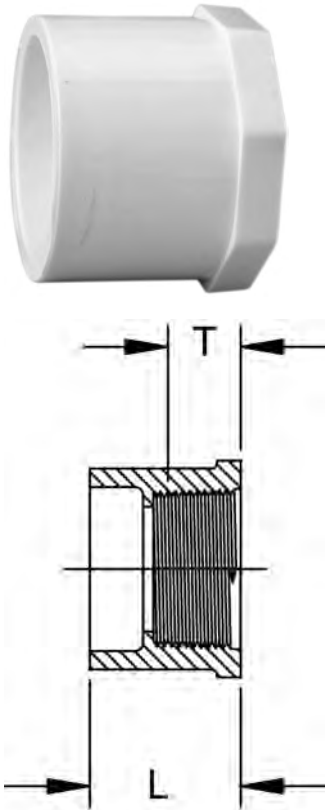
Size (inch)	P/L	Part No.	Pack Qty	HL (inch)	L (inch)
½ x ¾	601	<b>436-074</b>	50	0.88	1.75
¾ x ½	601	<b>436-101</b>	50	0.94	1.69
¾ x 1	601	<b>436-102</b>	50	0.81	1.81
1 x ¾	601	<b>436-131</b>	50	1.00	2.31
1 x 1 ¼	601	<b>436-132</b>	25	1.19	2.88
1 ¼ x 1	601	<b>436-168</b>	25	1.00	2.00
1 ¼ x 1 ½	601	<b>436-169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

**Reducer Bushing (SPG x S)**



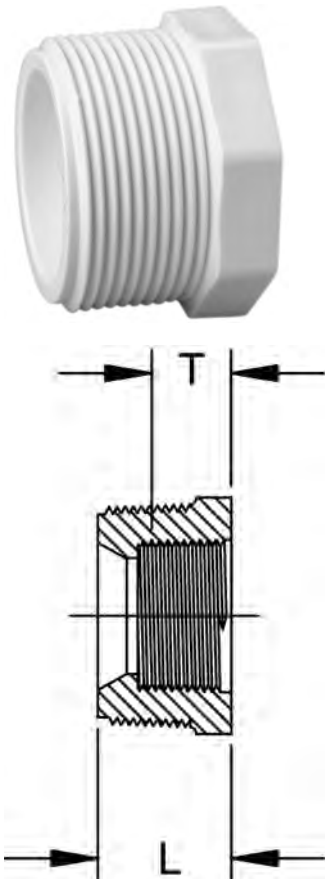
Size (inch)	P/L	Part No.	Pack Qty	HL (inch)	L (inch)
¾ x ½	601	<b>437-101</b>	100	0.25	1.06
1 x ½	601	<b>437-130</b>	100	0.50	1.25
1 x ¾	601	<b>437-131</b>	100	0.44	1.25
1 ¼ x ½	601	<b>437-166</b>	25	0.81	1.56
1 ¼ x ¾	601	<b>437-167</b>	25	0.75	1.50
1 ¼ x 1	601	<b>437-168</b>	25	0.44	1.50
1 ½ x ½	601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

**Reducer Bushing (SPG x FPT)**



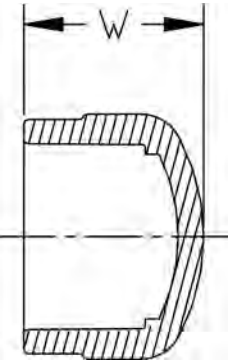
Size (inch)	P/L	Part No.	Pack Qty	L (inch)	T (inch)
1/2 x 1/4	601	<b>438-072</b>	100	1.19	0.69
1/2 x 3/8	601	<b>438-073</b>	100	1.25	0.63
3/4 x 1/4	601	<b>438-098</b>	50	1.13	0.63
3/4 x 1/2	601	<b>438-101</b>	100	1.06	0.81
1 x 1/2	601	<b>438-130</b>	100	1.25	0.75
1 x 3/4	601	<b>438-131</b>	100	1.25	0.69
1 1/4 x 1/2	601	<b>438-166</b>	25	1.56	1.06
1 1/4 x 3/4	601	<b>438-167</b>	25	1.56	0.75
1 1/4 x 1	601	<b>438-168</b>	25	1.56	1.00
1 1/2 x 1/2	601	<b>438-209</b>	25	1.56	0.69
1 1/2 x 3/4	601	<b>438-210</b>	25	1.56	0.69
1 1/2 x 1	601	<b>438-211</b>	25	1.56	0.88
1 1/2 x 1 1/4	601	<b>438-212</b>	25	1.63	1.38
2 x 1/2	601	<b>438-247</b>	10	1.69	0.75
2 x 3/4	601	<b>438-248</b>	10	1.69	0.69
2 x 1	601	<b>438-249</b>	10	1.75	1.13
2 x 1 1/4	601	<b>438-250</b>	10	1.69	1.38
2 x 1 1/2	601	<b>438-251</b>	10	1.69	0.94
2 1/2 x 1 1/2	601	<b>438-291</b>	10	2.31	1.31
2 1/2 x 2	601	<b>438-292</b>	10	2.31	1.50
3 x 1 1/2	601	<b>438-337</b>	10	2.38	0.88
3 x 2	601	<b>438-338</b>	10	2.38	1.00
3 x 2 1/2	601	<b>438-339</b>	10	2.38	1.50
4 x 2	601	<b>438-420</b>	5	2.44	1.00
4 x 2 1/2	601	<b>438-421</b>	5	2.44	1.31
4 x 3	601	<b>438-422</b>	5	2.38	1.38
6 x 4	601	<b>438-532</b>	5	3.88	1.69

**Reducer Bushing (MPT x FPT)**



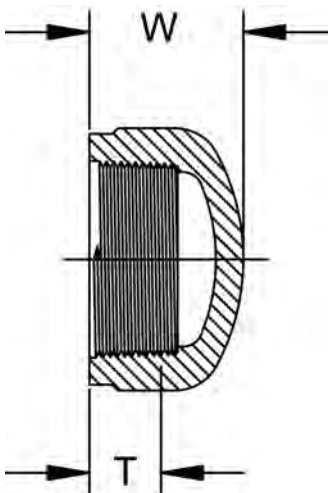
Size (inch)	P/L	Part No.	Pack Qty	L (inch)	T (inch)
1/2 x 1/4	601	<b>^ 439-072</b>	50	1.13	0.63
1/2 x 3/8	601	<b>^ 439-073</b>	50	1.13	0.69
3/4 x 1/4	601	<b>^ 439-098</b>	50	1.13	0.69
3/4 x 1/2	601	<b>^ 439-101</b>	50	1.00	0.75
1 x 1/2	601	<b>^ 439-130</b>	50	1.06	0.75
1 x 3/4	601	<b>^ 439-131</b>	50	1.13	0.75
1 1/4 x 1/2	601	<b>^ 439-166</b>	25	1.31	0.75
1 1/4 x 3/4	601	<b>^ 439-167</b>	25	1.31	0.50
1 1/4 x 1	601	<b>^ 439-168</b>	25	1.31	1.00
1 1/2 x 1/2	601	<b>^ 439-209</b>	25	1.38	0.75
1 1/2 x 3/4	601	<b>^ 439-210</b>	25	1.44	0.81
1 1/2 x 1	601	<b>^ 439-211</b>	25	1.44	1.13
1 1/2 x 1 1/4	601	<b>^ 439-212</b>	25	1.44	1.00
2 x 1	601	<b>^ 439-249</b>	10	1.44	1.00
2 x 1 1/4	601	<b>^ 439-250</b>	10	1.44	1.00
2 x 1 1/2	601	<b>^ 439-251</b>	10	1.50	1.00
2 1/2 x 2	601	<b>^ 439-292</b>	10	1.81	1.06
3 x 2	601	<b>^ 439-338</b>	5	2.06	1.06

**Cap (S)**



Size (inch)	P/L	Part No.	Pack Qty	W (inch)	Design
½	601	<b>447-005</b>	100	1.19	
¾	601	<b>447-007</b>	100	1.31	
1	601	<b>447-010</b>	50	1.75	
1 ¼	601	<b>447-012</b>	25	1.75	
1 ½	601	<b>447-015</b>	25	2.00	
2	601	<b>447-020</b>	25	2.19	
2 ½	601	<b>447-025</b>	10	3.06	
3	601	<b>447-030</b>	10	3.19	
4	601	<b>447-040</b>	5	3.50	
6	601	<b>447-060</b>	5	5.38	
8	601	<b>447-080</b>	4	6.69	
10	B09	<b>447-100</b>	1	8.50	
12	B09	<b>447-120</b>	1	9.63	
14	A32	<b>*447-140N</b>	1	5.00	FAB
16	A32	<b>*447-160N</b>	1	5.25	FAB
18	A32	<b>*447-180N</b>	1	6.25	FAB
20	A32	<b>*447-200N</b>	1	6.75	FAB
24	A32	<b>*447-240N</b>	1	8.00	FAB

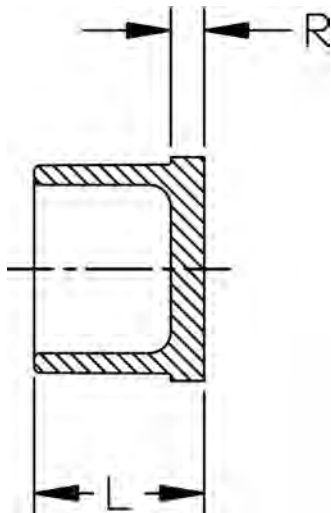
**Cap (FPT)**



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

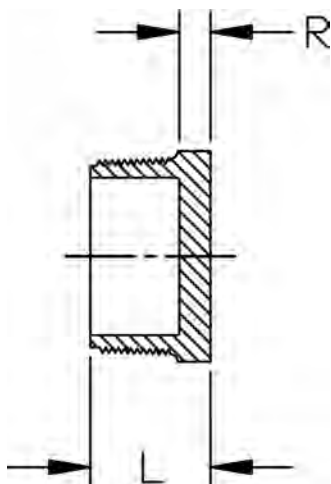


**Plug (SPG)**



Size (inch)	P/L	Part No.	Pack Qty	L (inch)	R (inch)
½	601	<b>449-005</b>	50	1.00	0.25
¾	601	<b>449-007</b>	50	1.06	0.25
1	601	<b>449-010</b>	50	1.25	0.25
1 ¼	601	<b>449-012</b>	25	1.56	0.31
1 ½	601	<b>449-015</b>	25	1.63	0.31
2	601	<b>449-020</b>	10	1.69	0.31
2 ½	601	<b>449-025</b>	10	2.38	0.38
3	601	<b>449-030</b>	10	2.38	0.38
4	601	<b>449-040</b>	5	2.38	0.38

**Plug (MPT)**



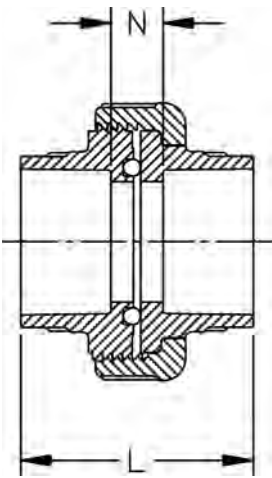
Size (inch)	P/L	Part No.	Pack Qty	L (inch)	R (inch)
½	601	<b>450-005</b>	50	1.00	0.25
¾	601	<b>450-007</b>	50	1.06	0.31
1	601	<b>450-010</b>	50	1.13	0.31
1 ¼	601	<b>450-012</b>	25	1.25	0.44
1 ½	601	<b>450-015</b>	25	1.38	0.31
2	601	<b>450-020</b>	10	1.38	0.31
2 ½	601	<b>450-025</b>	10	1.94	0.38
3	601	<b>450-030</b>	10	2.00	0.31
4	601	<b>450-040</b>	5	2.13	0.38
6	A32	<b>*450-060N</b>	1	2.00	1.00
8	A32	<b>*450-080N</b>	1	2.00	1.00
10	A32	<b>*450-100N</b>	1	2.00	1.00
12	A32	<b>*450-120N</b>	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.	Pack Qty	L (inch)	N (inch)
½	601	<b>457-005</b>	10	1.75	0.25
¾	601	<b>457-007</b>	10	1.88	0.25
1	601	<b>457-010</b>	10	2.38	0.25
1 ¼	601	<b>457-012</b>	5	2.81	0.38
1 ½	601	<b>457-015</b>	5	3.00	0.38
2	601	<b>457-020</b>	5	3.13	0.38

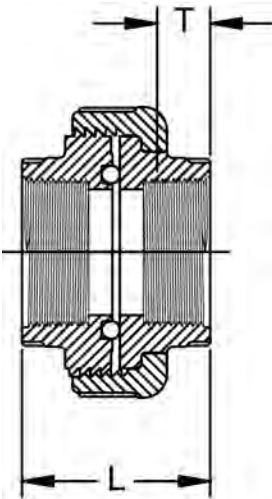


**Union (FPT x FPT)**



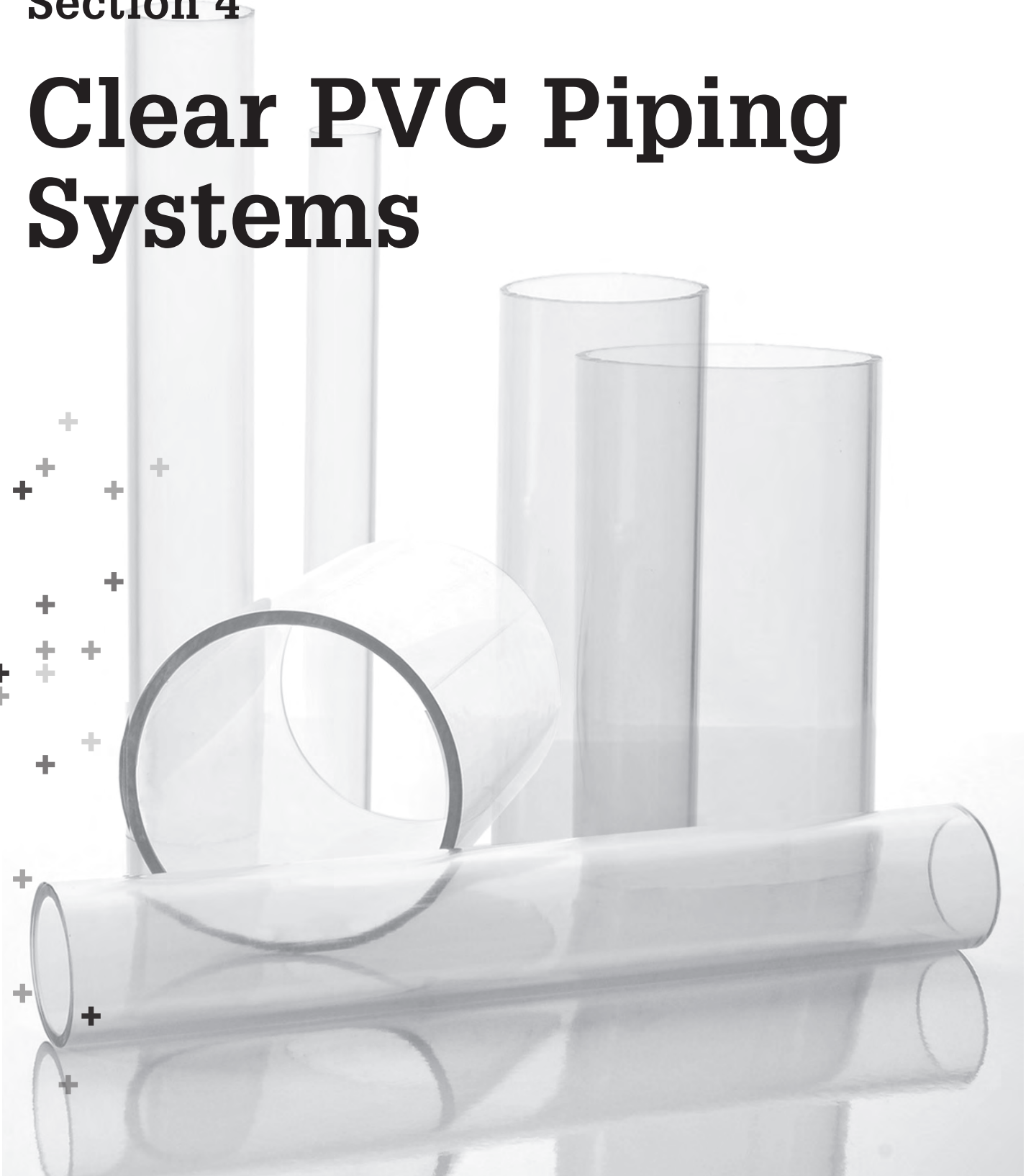
- 75 psi @ 73°F (5.2 bar @ 22.7°C)
- O-ring material Buna-N

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



**Section 4**

# Clear PVC Piping Systems



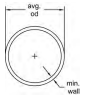
The technical information given in this publication implies no warranty of any kind and is subject to change without notice. Please consult our Terms and Conditions of Sale.

For complete technical information, please consult the GF Harvel Engineering and Installation Guide available online at [www.gfpiping.com/resource.html](http://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

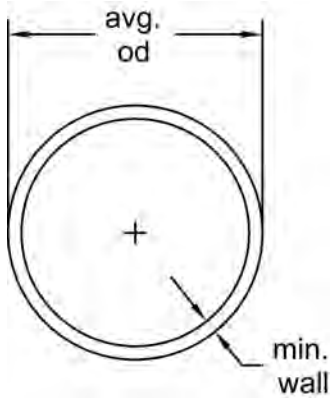
## Specifications and Standards

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

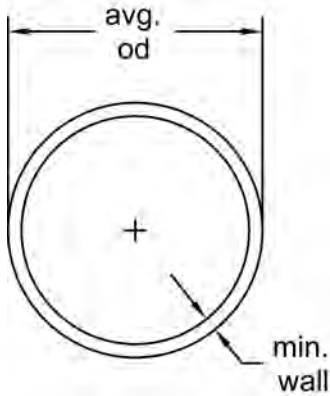
# Harvel® Clear PVC Pressure Pipe



## 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.	Box Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
¼	H05	*H0400025PL1000	100	0.540	0.088	0.081	390
⅜	H05	*H0400038PL1000	100	0.675	0.091	0.109	310
½	H05	*H0400050PL1000	350	0.840	0.109	0.161	300
¾	H05	*H0400075PL1000	250	1.050	0.113	0.214	240
1	H05	*H0400100PL1000	250	1.315	0.133	0.315	220
1 ¼	H05	*H0400125PL1000	200	1.660	0.140	0.426	180
1 ½	H05	*H0400150PL1000	160	1.900	0.145	0.509	170
2	H05	*H0400200PL1000	120	2.375	0.154	0.682	140
2 ½	H05	*H0400250PL1000	80	2.875	0.203	1.076	150
3	H05	*H0400300PL1000	60	3.500	0.216	1.409	130
3 ½	H05	*H0400350PL1000	40	4.000	0.226	1.697	120
4	H05	*H0400400PL1000	40	4.500	0.237	2.006	110
5	H05	*H0400500PL1000	10	5.563	0.258	2.726	95
6	H05	*H0400600PL1000	10	6.625	0.280	3.535	90
6 ½	H05	*H0400613PL1000	10	6.625	0.130	1.770	45
8	H05	*H0400800PL1000	10	8.625	0.322	5.305	80
10	H05	*H0401000PL1000	10	10.750	0.365	7.532	70
12	H05	*H0401200PL1000	10	12.750	0.406	9.949	70

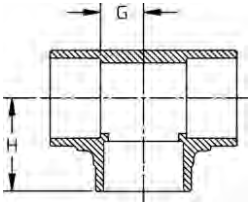


## Schedule 80 Clear PVC - 10 ft lengths

- 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

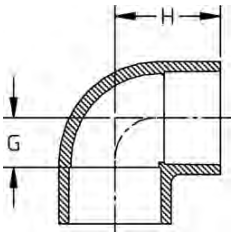
Size (inch)	P/L	Part No.	Box Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
¼	H56	*H0800025PL1000	100	0.540	0.119	0.100	570
⅜	H56	*H0800038PL1000	100	0.675	0.126	0.138	460
½	H56	*H0800050PL1000	50	0.840	0.147	0.202	420
¾	H56	*H0800075PL1000	50	1.050	0.154	0.273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

# Clear PVC Fittings



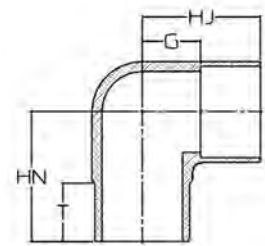
## Tee (S x S x S)

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



## 90° Ell (S x S)

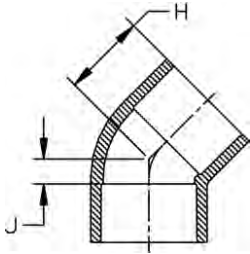
Size (inch)	P/L	Part No.	Pack Qty	H (inch)	G (inch)
¼	H01	*H406002LS	10	1.09	0.41
⅜	H01	*H406003LS	10	1.13	0.38
½	H01	*H406005LS	25	1.25	0.50
¾	H01	*H406007LS	25	1.50	0.56
1	H01	*H406010LS	25	1.81	0.69
1 ¼	H01	*H406012LS	10	2.16	0.97
1 ½	H01	*H406015LS	10	2.34	1.06
2	H01	*H406020LS	10	2.69	1.31
2 ½	H01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



## 90° Street Ell (SPG x S)

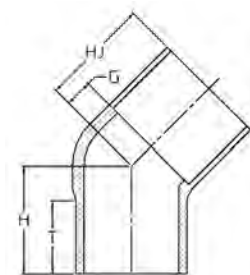
Size (inch)	P/L	Part No.	Pack Qty	HJ (inch)	HN (inch)	G (inch)	T (inch)
½	H01	*H409005LS	25	1.16	1.44	0.41	0.75
¾	H01	*H409007LS	25	1.53	1.84	0.53	1.00
1	H01	*H409010LS	25	1.81	2.09	0.69	1.13
1 ¼	H01	*H409012LS	10	2.06	2.47	0.81	1.28
1 ½	H01	*H409015LS	10	2.38	2.63	1.06	1.28
2	H01	*H409020LS	10	2.63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





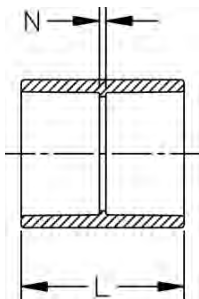
**45° Ell (S x S)**

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



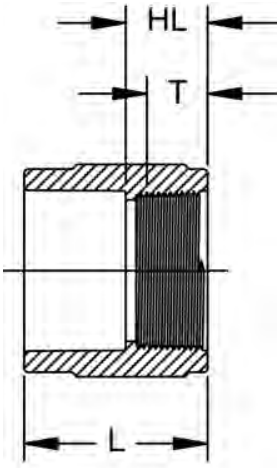
**45° Street Ell (SPG x S)**

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



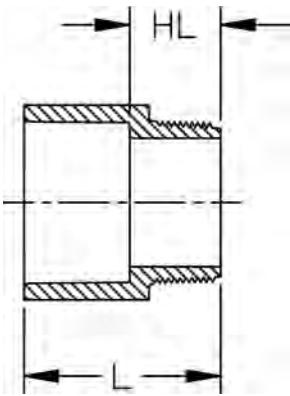
**Coupling (S x S)**

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



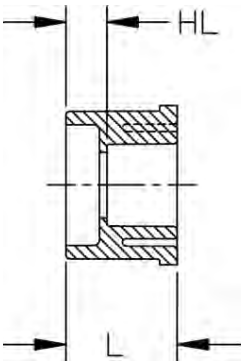
**Female Adapter (S x FPT)**

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



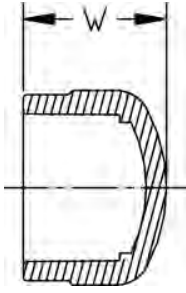
**Male Adapter (S x MPT)**

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



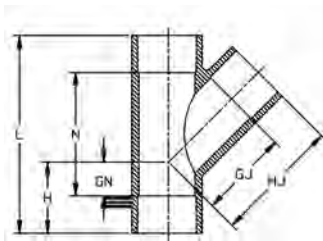
**Flush Style Reducer Bushing (SPG x S)**

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



**Cap (S)**

Size (inch)	P/L	Part No.	Pack Qty	W (inch)
¼	H01	*H447002LS	10	3.63
¾	H01	*H447003LS	10	1.00
½	H01	*H447005LS	25	1.03
¾	H01	*H447007LS	25	1.31
1	H01	*H447010LS	25	1.56
1 ¼	H01	*H447012LS	10	1.75
1 ½	H01	*H447015LS	10	1.91
2	H01	*H447020LS	10	2.03
2 ½	H01	*H447025LS	5	2.56
3	H01	*H447030LS	5	2.91
4	H01	*H447040LS	5	3.13
6	H01	*H447060LS	2	5.00
8	H01	*H447080LS	2	6.38



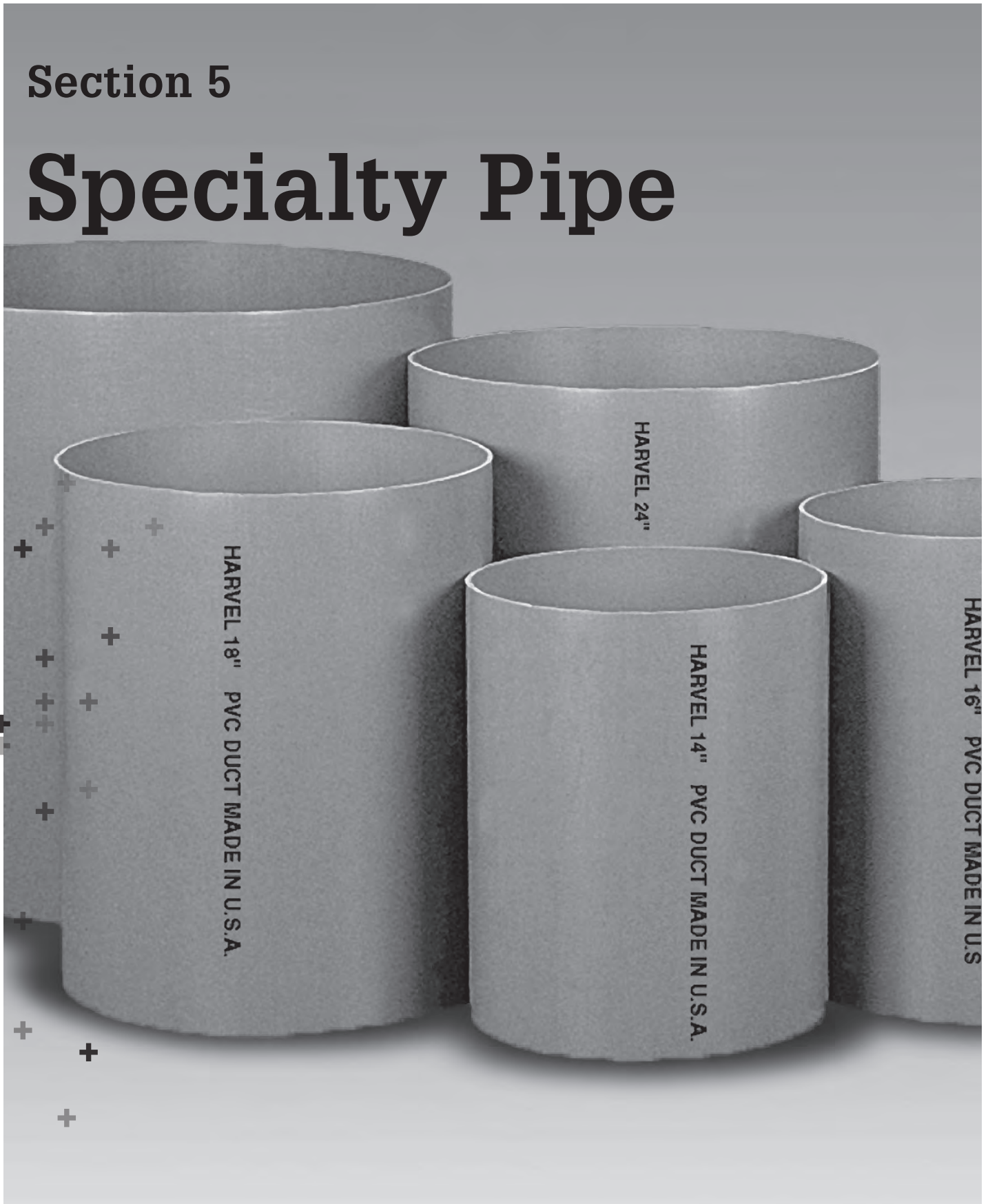
**45° Wye (S x S x S)**

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



## Section 5

# Specialty Pipe



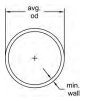
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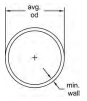
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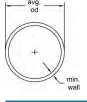
Harvel Specialized PVC Pipe Sizes

109



Corrosion Resistant Duct

112



EnviroKing® UV Resistant Pipe

114

# Specifications and Standards

## Specifications and Standards

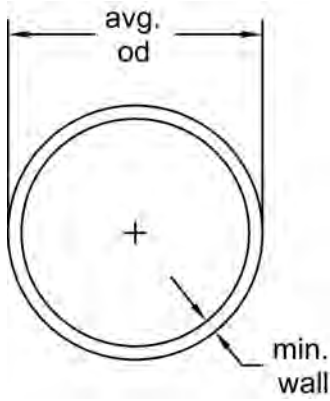
NSF/ANSI Standard 14

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")



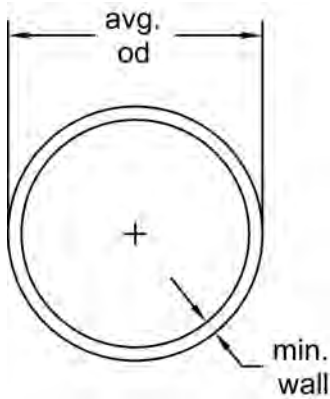
# Harvel Specialized PVC Pipe Sizes



## 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

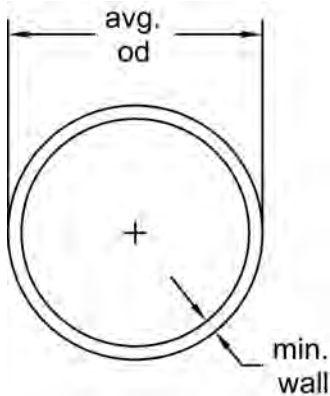
Pipe Size (inch)	P/L	Part No.	Lift Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
½	H15	* H1200050PG2000	5700	0.840	0.170	0.223	1010
¾	H15	* H1200075PG2000	5260	1.050	0.170	0.295	770
1	H15	* H1200100PG2000	4280	1.315	0.200	0.440	720
1 ¼	H15	* H1200125PG2000	2360	1.660	0.215	0.614	600
1 ½	H15	* H1200150PG2000	2060	1.900	0.225	0.744	540
2	H15	* H1200200PG2000	1660	2.375	0.250	1.052	470
2 ½	H15	* H1200250PG2000	1080	2.875	0.300	1.529	470
3	H15	* H1200300PG2000	840	3.500	0.350	2.184	440
4	H15	* H1200400PG2000	520	4.500	0.437	3.516	430
6	H15	* H1200600PG2000	340	6.625	0.562	6.759	370
8	H15	* H1200800PG2000	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.	Lift Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
½	H21	* H1350050PG2000	5700	0.840	0.062	0.104	315



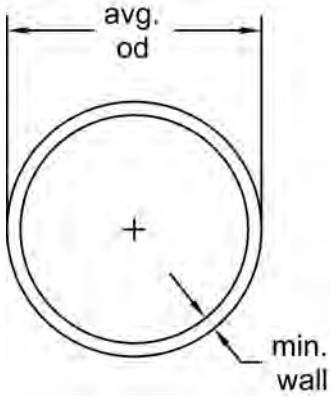
## SDR 13.5 PVC Pressure Pipe - White

- 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.	Lift Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
½	H21	* H1350050PW2000	5700	0.840	0.062	0.104	315

**SDR 21 PVC Pressure Pipe - Gray**

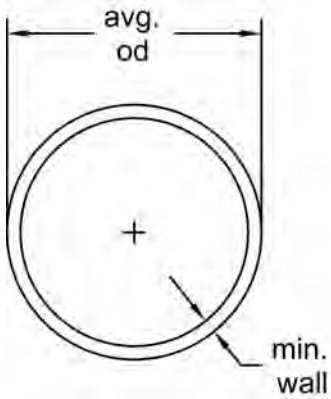
- Max Water Pressure at 73°F (22.7°C) with solvent-cemented joints
- Belled-end pipe available upon request



Pipe Size (inch)	P/L	Part No.	Lift Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
3/4	H21	*H0210075PG2000	5260	1.050	0.060	0.129	200
1	H21	*H0210100PG2000	4280	1.315	0.063	0.170	200
1 1/4	H21	*H0210125PG2000	2360	1.660	0.079	0.263	200
1 1/2	H21	*H0210150PG2000	2060	1.900	0.090	0.339	200
2	H21	*H0210200PG2000	1660	2.375	0.113	0.521	200
2 1/2	H21	*H0210250PG2000	1080	2.875	0.137	0.754	200
3	H21	*H0210300PG2000	840	3.500	0.167	1.106	200
3 1/2	H21	*H0210350PG2000	580	4.000	0.190	1.443	200
4	H21	*H0210400PG2000	520	4.500	0.214	1.825	200
5	H21	*H0210500PG2000	400	5.563	0.265	2.792	200
6	H21	*H0210600PG2000	340	6.625	0.316	3.964	200
8	H21	*H0210800PG2000	220	8.625	0.410	6.679	200

**SDR 21 PVC Pressure Pipe - White**

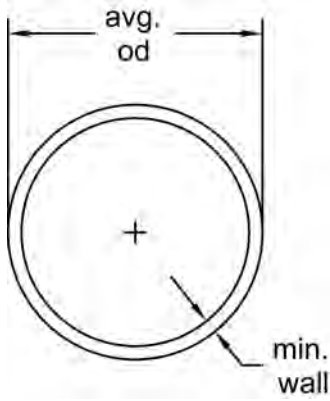
- Max Water Pressure at 73°F (22.7°C) with solvent-cemented joints
- Belled-end pipe available upon request



Pipe Size (inch)	P/L	Part No.	Lift Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
3/4	H21	*H0210075PW2000	5260	1.050	0.060	0.129	200
1	H21	*H0210100PW2000	4280	1.315	0.063	0.170	200
1 1/4	H21	*H0210125PW2000	2360	1.660	0.079	0.263	200
1 1/2	H21	*H0210150PW2000	2060	1.900	0.090	0.339	200
2	H21	*H0210200PW2000	1660	2.375	0.113	0.521	200
2 1/2	H21	*H0210250PW2000	1080	2.875	0.137	0.754	200
3	H21	*H0210300PW2000	840	3.500	0.167	1.106	200
3 1/2	H21	*H0210350PW2000	580	4.000	0.190	1.443	200
4	H21	*H0210400PW2000	520	4.500	0.214	1.825	200
5	H21	*H0210500PW2000	400	5.563	0.265	2.792	200
6	H21	*H0210600PW2000	340	6.625	0.316	3.964	200
8	H21	*H0210800PW2000	220	8.625	0.410	6.679	200

**SDR 26 PVC Pressure Pipe - Gray**

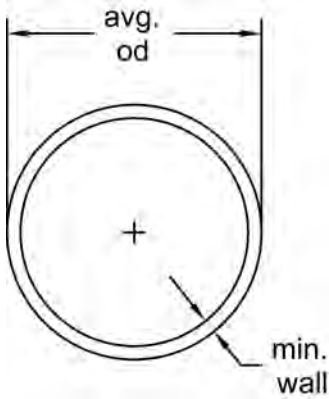
- Max Water Pressure at 73°F (22.7°C) with solvent-cemented joints
- Belled-end pipe available upon request



Pipe Size (inch)	P/L	Part No.	Lift Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
1	H21	*H0260100PG2000	4280	1.315	0.060	0.164	160
1 1/4	H21	*H0260125PG2000	2360	1.660	0.064	0.221	160
1 1/2	H21	*H0260150PG2000	2060	1.900	0.073	0.284	160
2	H21	*H0260200PG2000	1660	2.375	0.091	0.432	160
2 1/2	H21	*H0260250PG2000	1080	2.875	0.110	0.622	160
3	H21	*H0260300PG2000	840	3.500	0.135	0.915	160
3 1/2	H21	*H0260350PG2000	700	4.000	0.154	1.183	160
4	H21	*H0260400PG2000	520	4.500	0.173	1.494	160
5	H21	*H0260500PG2000	400	5.563	0.214	2.288	160
6	H21	*H0260600PG2000	340	6.625	0.255	3.228	160
8	H21	*H0260800PG2000	220	8.625	0.332	5.468	160
10	H21	*H0261000PG2000	80	10.750	0.413	8.492	160
12	H21	*H0261200PG2000	60	12.750	0.490	11.956	160
14	H21	*H0261400PG2000	60	14.000	0.538	14.430	160
16	H21	*H0261600PG2000	60	16.000	0.615	18.810	160
18	H21	*H0261800PG2000	40	18.000	0.692	23.860	160
20	H21	*H0262000PG2000	40	20.000	0.769	29.470	160
24	H21	*H0262400PG2000	40	24.000	0.923	42.520	160

**SDR 26 PVC Pressure Pipe - White**

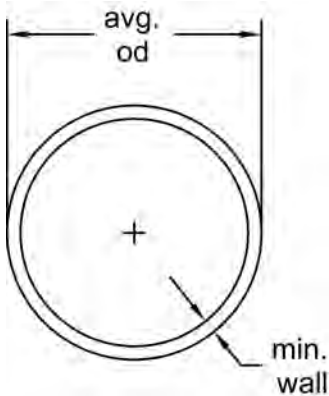
- Max Water Pressure at 73°F (22.7°C) with solvent-cemented joints
- Belled-end pipe available upon request



Pipe Size (inch)	P/L	Part No.	Lift Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
1	H21	*H0260100PW2000	4280	1.315	0.060	0.164	160
1 1/4	H21	*H0260125PW2000	2360	1.660	0.064	0.221	160
1 1/2	H21	*H0260150PW2000	2060	1.900	0.073	0.284	160
2	H21	*H0260200PW2000	1660	2.375	0.091	0.432	160
2 1/2	H21	*H0260250PW2000	1080	2.875	0.110	0.622	160
3	H21	*H0260300PW2000	840	3.500	0.135	0.915	160
3 1/2	H21	*H0260350PW2000	700	4.000	0.154	1.183	160
4	H21	*H0260400PW2000	520	4.500	0.173	1.494	160
5	H21	*H0260500PW2000	400	5.563	0.214	2.288	160
6	H21	*H0260600PW2000	340	6.625	0.255	3.228	160
8	H21	*H0260800PW2000	220	8.625	0.332	5.468	160
10	H21	*H0261200PW2000	80	10.750	0.413	8.492	160
12	H21	*H0261000PW2000	60	12.750	0.490	11.956	160
14	H21	*H0261400PW2000	60	14.000	0.538	14.430	160
16	H21	*H0261600PW2000	60	16.000	0.615	18.810	160
18	H21	*H0261800PW2000	40	18.000	0.692	23.860	160
20	H21	*H0262000PW2000	40	20.000	0.769	29.470	160
24	H21	*H0262400PW2000	40	24.000	0.923	42.520	160

**SDR 41 PVC Pressure Pipe - Gray**

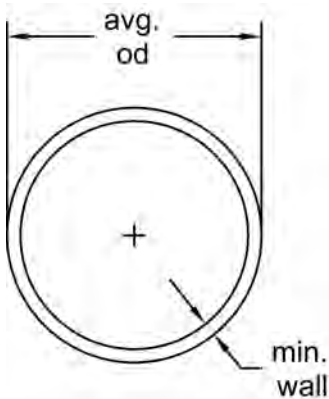
- Max Water Pressure at 73°F (22.7°C) with solvent-cemented joints
- Belled-end pipe available upon request



Pipe Size (inch)	P/L	Part No.	Lift Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
18	H15	*H0411800PG2000	60	18.000	0.439	15.370	100
20	H15	*H0412000PG2000	40	20.000	0.488	18.920	100
24	H15	*H0412400PG2000	40	24.000	0.585	27.320	100

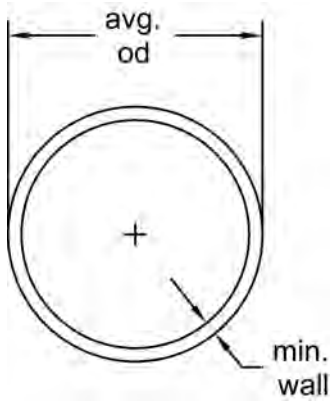
**Corrosion Resistant Duct**

**PVC Corrosion Resistant Duct - Gray**



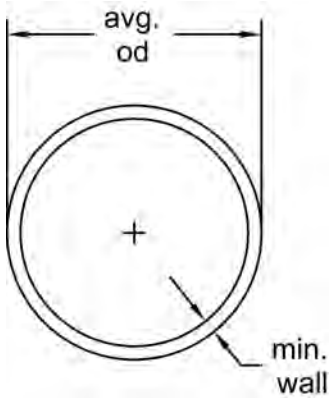
Size (inch) (inch)	P/L	Part No.	Lift Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)
6 x 1/8	H30	*HDUC0600PG2000	340	6.625	0.105	1.530
6	H30	*HDUC0601PG2000	340	6.625	0.172	2.275
7	H30	*HDUC0700PG2000	340	7.737	0.172	2.534
8	H30	*HDUC0800PG2000	220	8.625	0.172	2.982
9	H30	*HDUC0900PG2000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

**CPVC Corrosion Resistant Duct - Gray**



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

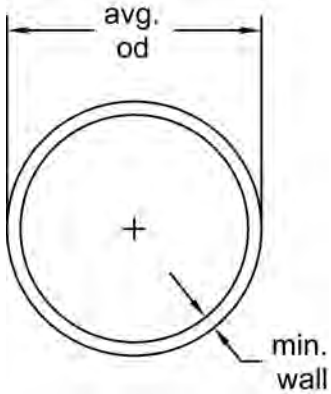
# EnviroKing® UV Resistant Pipe



## 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.	Box Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
2	H20	*HTW00200EK1000	120	2.375	0.091	0.456	80
3	H20	*HTW00300EK1000	60	3.500	0.135	0.966	80
4	H20	*HTW00400EK1000	40	4.500	0.173	1.569	80
6	H20	*HTW00600EK1000	10	6.625	0.172	2.391	70
8	H20	*HTW00800EK1000	10	8.625	0.172	3.134	53
10	H20	*HTW01000EK1000	10	10.750	0.172	3.923	43
12	H20	*HTW01200EK1000	10	12.750	0.172	4.666	36



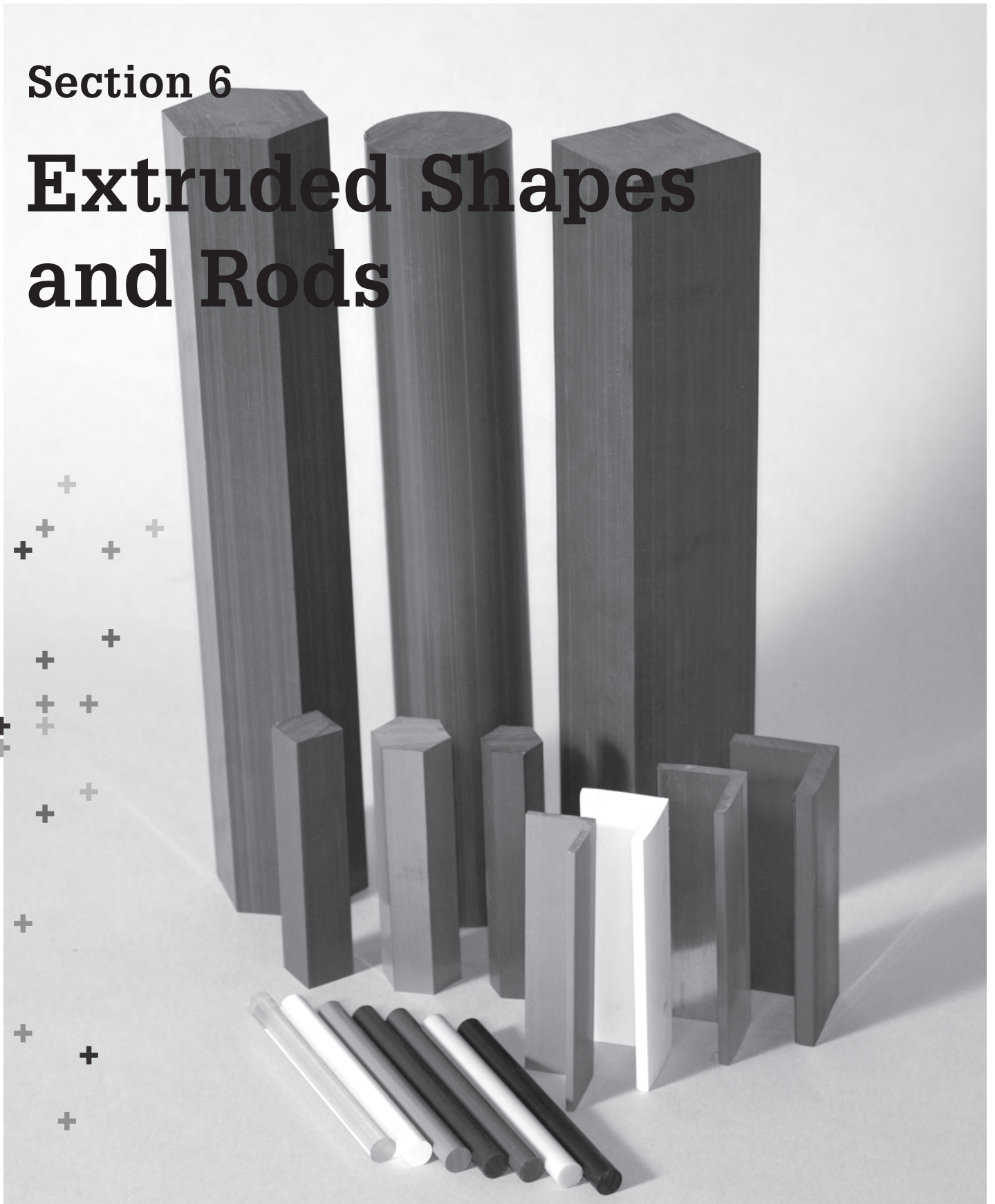
## EnviroKing® UV Resistant Clear PVC Pipe Schedule 40 - 10 ft lengths

- 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.	Box Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
1/2	*H0400050EK1000	350	0.840	0.109	0.170	300
3/4	*H0400075EK1000	250	1.050	0.113	0.226	240
1	*H0400100EK1000	250	1.315	0.133	0.333	220
1 1/4	*H0400125EK1000	200	1.660	0.140	0.450	180
1 1/2	*H0400150EK1000	160	1.900	0.145	0.537	170
2	*H0400200EK1000	120	2.375	0.154	0.720	140
2 1/2	*H0400250EK1000	80	2.875	0.203	1.136	150
3	*H0400300EK1000	60	3.500	0.216	1.488	130
3 1/2	*H0400350EK1000	40	4.000	0.226	1.789	120
4	*H0400400EK1000	40	4.500	0.237	2.118	110
5	*H0400500EK1000	10	5.563	0.258	2.726	95
6	*H0400600EK1000	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](http://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 : 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

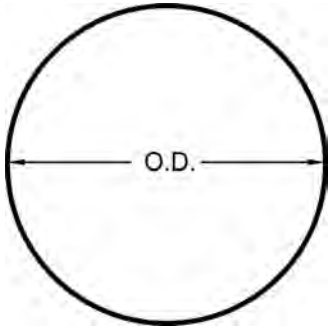
Material PVC Type 2, Grade I (Clear) Cell Classification 16443

Material CPVC Type IV, Grade I, Cell Classification 23447

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

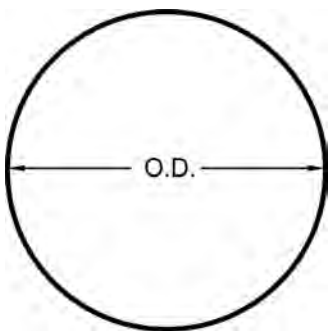
Refer to GF Harvel Engineering and Installation Guide for additional information

# PVC Extruded Shapes and Rods



## PVC Solid Round Bar - Gray

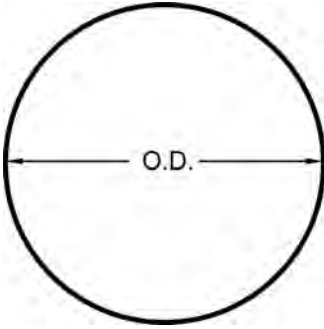
Pipe Size (inch)	P/L	Part No.	O.D. (inch)	Wt/Ft (lbs/ft)
¼	H32	^ HROD0025PS1000	0.250	0.029
⅜	H32	^ HROD0038PS1000	0.375	0.066
½	H32	^ HROD0050PS1000	0.500	0.117
⅝	H32	^ HROD0063PS1000	0.625	0.183
¾	H32	^ HROD0075PS1000	0.750	0.265
⅞	H32	^ HROD0088PS1000	0.875	0.358
1	H32	^ HROD0100PS1000	1.000	0.471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



## PVC Solid Round Bar - White

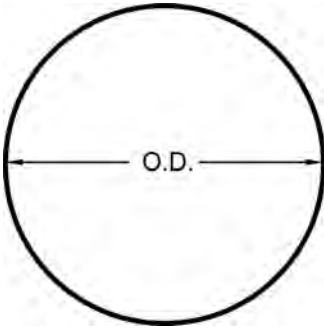
Pipe Size (inch)	P/L	Part No.	O.D. (inch)	Wt/Ft (lbs/ft)
¼	H34	^ HROD0025PW1000	0.250	0.029
⅜	H34	^ HROD0038PW1000	0.375	0.066
½	H34	^ HROD0050PW1000	0.500	0.117
⅝	H34	^ HROD0063PW1000	0.625	0.183
¾	H34	^ HROD0075PW1000	0.750	0.265
⅞	H34	^ HROD0088PW1000	0.875	0.358
1	H34	^ HROD0100PW1000	1.000	0.471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

**PVC Solid Round Bar - Black**



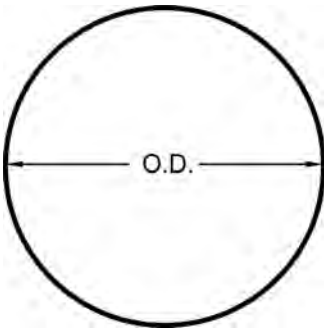
Pipe Size (inch)	P/L	Part No.	O.D. (inch)	Wt/Ft (lbs/ft)
¼	H34	^ HROD0025PK1000	0.250	0.029
⅜	H34	^ HROD0038PK1000	0.375	0.066
½	H34	^ HROD0050PK1000	0.500	0.117
⅝	H34	^ HROD0063PK1000	0.625	0.183
¾	H34	^ HROD0075PK1000	0.750	0.265
⅞	H34	^ HROD0088PK1000	0.875	0.358
1	H34	^ HROD0100PK1000	1.000	0.471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

**PVC Solid Round Bar - Clear**

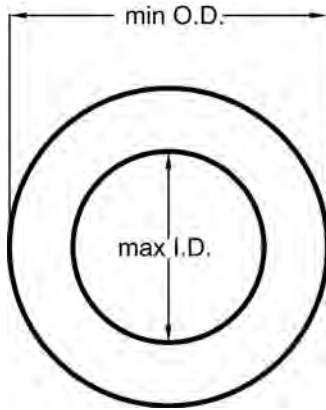


Pipe Size (inch)	P/L	Part No.	O.D. (inch)	Wt/Ft (lbs/ft)
¼	H39	^ HROD0025PL1000	0.250	0.029
⅜	H39	^ HROD0038PL1000	0.375	0.066
½	H39	^ HROD0050PL1000	0.500	0.117
⅝	H39	^ HROD0063PL1000	0.625	0.183
¾	H39	^ HROD0075PL1000	0.750	0.265
⅞	H39	^ HROD0088PL1000	0.875	0.358
1	H39	^ HROD0100PL1000	1.000	0.471

**PVC Centerless Ground Bar - Gray**

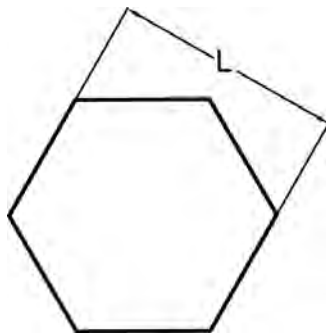


Pipe Size (inch)	P/L	Part No.	O.D. (inch)	Wt/Ft (lbs/ft)
¼	H33	^ HROD0025PC1000	0.250	0.029
⅜	H33	^ HROD0038PC1000	0.375	0.066
½	H33	^ HROD0050PC1000	0.500	0.117
⅝	H33	^ HROD0063PC1000	0.625	0.183
¾	H33	^ HROD0075PC1000	0.750	0.265
⅞	H33	^ HROD0088PC1000	0.875	0.358
1	H33	^ HROD0100PC1000	1.000	0.471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



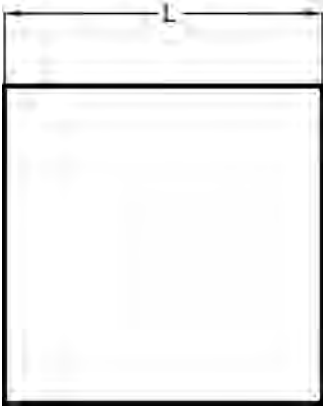
**PVC Hollow Bar - Gray**

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



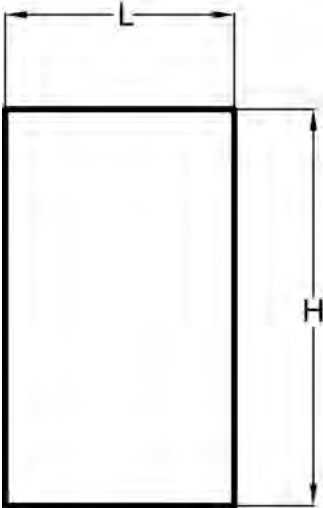
**PVC Hexagonal Bar - Gray**

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



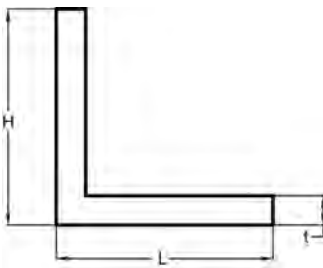
**PVC Square Bar - Gray**

Pipe Size (inch)	P/L	Part No.	L (inch)	Wt/Ft (lbs/ft)
½	H37	^ HSQU0050PG1000	0.500	0.157
¾	H37	^ HSQU0063PG1000	0.625	0.238
¾	H37	^ HSQU0075PG1000	0.750	0.360
1	H37	^ HSQU0100PG1000	1.000	0.629
1 ¼	H37	^ HSQU0125PG0800	1.250	1.033
1 ½	H37	^ HSQU0150PG0800	1.500	1.464
2	H37	^ HSQU0200PG0800	2.000	2.452



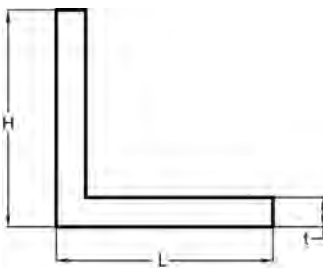
**PVC Rectangular Bar - Gray**

Pipe Size (inch)	P/L	Part No.	L (inch)	H (inch)	Wt/Ft (lbs/ft)
½ x ¾	H38	^ HREC0050PG1000	0.500	0.750	0.225



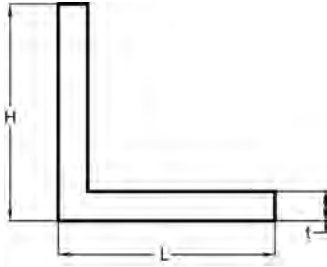
**PVC Angle Bar - Gray**

Size (inch)	P/L	Part No.	H (inch)	L (inch)	T (inch)	Wt/Ft (lbs/ft)
1 x 1 x ¼	H31	^ HANG0100PG1000	1.00	1.00	0.125	0.141
1 ¼ x 1 ¼ x ⅜	H31	^ HANG0125PG1000	1.25	1.25	0.188	0.262
1 ½ x 1 ½ x ⅜	H31	^ HANG0151PG1000	1.50	1.50	0.188	0.316
1 ½ x 1 ½ x ¼	H31	^ HANG0150PG1000	1.50	1.50	0.250	0.415
2 x 2 x ¼	H31	^ HANG0200PG1000	2.00	2.00	0.250	0.563



**PVC Angle Bar - White**

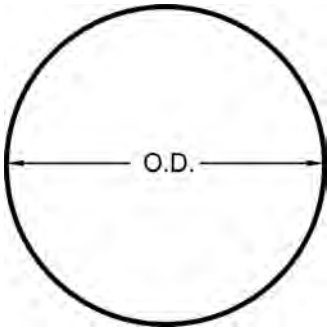
Size (inch)	P/L	Part No.	H (inch)	L (inch)	T (inch)	lbs per 100ft. (lb)	Wt/Ft (lbs/ft)
1 x 1 x ¼	H31	^ HANG0100PW1000	1.00	1.00	0.125	14.10	0.141
1 ¼ x 1 ¼ x ⅜	H31	^ HANG0125PW1000	1.25	1.25	0.188	26.20	0.262
1 ½ x 1 ½ x ⅜	H31	^ HANG0151PW1000	1.50	1.50	0.188	31.60	0.316
2 x 2 x ¼	H31	^ HANG0200PW1000	2.00	2.00	0.250	56.30	0.563



**PVC Angle Bar - Clear**

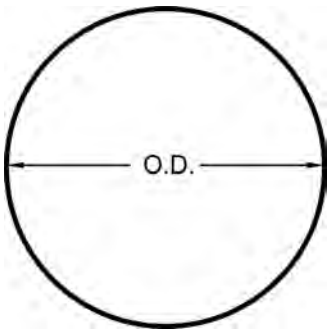
Size (inch)	P/L	Part No.	H (inch)	L (inch)	T (inch)	Wt/Ft (lbs/ft)
1 x 1 x 1 1/8	H40	^ HANG0100PL1000	1.00	1.00	0.125	0.141
1 1/4 x 1 1/4 x 3/8	H40	^ HANG0125PL1000	1.25	1.25	0.188	0.262
1 1/2 x 1 1/2 x 3/8	H40	^ HANG0150PL1000	1.50	1.50	0.188	0.316
1 1/2 x 1 1/2 x 1/4	H40	^ HANG0151PL1000	1.50	1.50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

**CPVC Extruded Shapes and Rods**



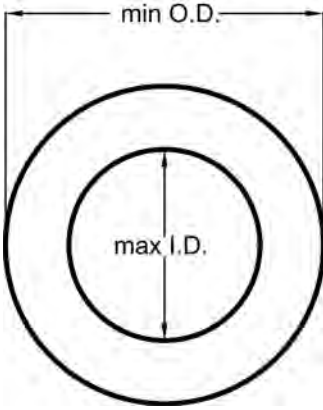
**CPVC Solid Round Bar - Gray**

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



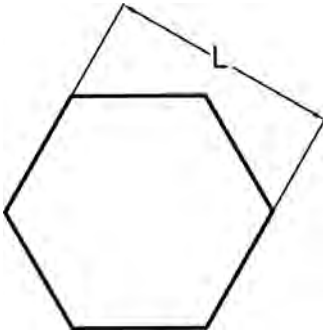
**CPVC Centerless Ground Bar - Gray**

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



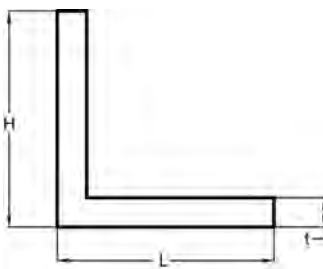
**CPVC Hollow Bar - Gray**

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



**CPVC Hexagonal Bar - Gray**

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



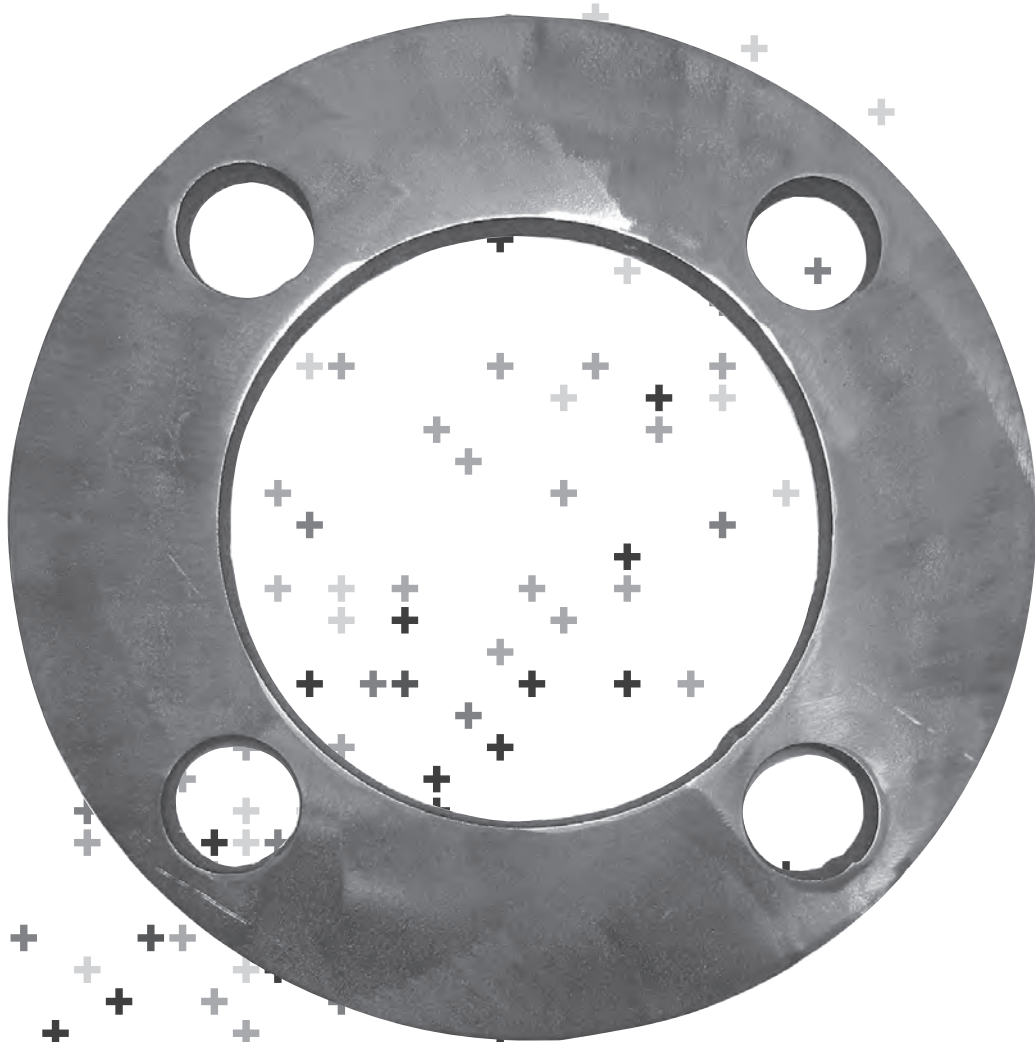
**CPVC Angle Bar - Gray**

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



## Section 7

# Joining Accessories



### 304SS Flange Backing Rings



Size	P/L	Part No.	Pack Qty
1/2	607	* 37X003308	1
3/4	607	* 37X003309	1
1	607	* 37X003310	1
1 1/4	607	* 37X003337	1
1 1/2	607	* 37X003311	1
2	607	* 37X003312	1
2 1/2	607	* 37X003338	1
3	607	* 37X003313	1
4	607	* 37X003334	1
6	607	* 37X003335	1
8	607	* 37X003336	1
10	607	* 37X003339	1
12	607	* 37X003340	1

### EPDM Full Face Flange Gasket - 150# ANSI Bolt Pattern



Size	P/L	Part No.	Pack Qty
1/2	607	* 37X002001	5
3/4	607	* 37X002002	5
1	607	* 37X002003	5
1 1/4	607	* 37X002004	5
1 1/2	607	* 37X002005	5
2	607	* 37X002006	5
2 1/2	607	* 37X002007	5
3	607	* 37X002008	5
4	607	* 37X002009	5
5	607	* 37X002019	1
6	607	* 37X002010	2
8	607	* 37X002011	2
10	607	* 37X002012	2
12	607	* 37X002013	2
14	607	* 37X002014	1
16	607	* 37X002015	1
18	607	* 37X002016	1
20	607	* 37X002017	1
24	607	* 37X002018	1

**FKM Full Face Flange Gasket - 150# ANSI Bolt Pattern**



Size	P/L	Part No.	Pack Qty
1/2	607	* 37X002110	5
3/4	607	* 37X002111	5
1	607	* 37X002112	5
1 1/4	607	* 37X002113	5
1 1/2	607	* 37X002114	5
2	607	* 37X002115	5
2 1/2	607	* 37X002116	5
3	607	* 37X002117	5
4	607	* 37X002118	5
5	607	* 37X002128	1
6	607	* 37X002119	2
8	607	* 37X002120	2
10	607	* 37X002121	2
12	607	* 37X002122	2
14	607	* 37X002123	1
16	607	* 37X002124	1
18	607	* 37X002125	1
20	607	* 37X002126	1
24	607	* 37X002127	1

**EPDM Full Face Flange Gasket - 300# ANSI Bolt Pattern**



Size (inch)	P/L	Part No.	Pack Qty
1/2	607	* 37X002021	5
3/4	607	* 37X002022	5
1	607	* 37X002023	5
1 1/4	607	* 37X002024	5
1 1/2	607	* 37X002025	5
2	607	* 37X002026	5
2 1/2	607	* 37X002027	5
3	607	* 37X002028	5
4	607	* 37X002029	5
6	607	* 37X002031	2
8	607	* 37X002032	2
10	607	* 37X002033	2
12	607	* 37X002034	2



**316SS Flange Bolt Kits**

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

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

table continued on the next page

effective August 2017

<b>P/L</b>	<b>Part No.</b>	<b>Flange Size</b> (inch)	<b>Bolts Per Kit</b>	<b>Bolt Length</b> (inch)	<b>Bolt Size</b> (inch)
607	* <b>37Z000073</b>	12	12	6.00	3/8
607	* <b>37Z000074</b>	14	12	5.00	1
607	* <b>37Z000075</b>	16	16	5.50	1
607	* <b>37Z000076</b>	18	16	5.50	1 1/8
607	* <b>37Z000077</b>	20	20	6.00	1 1/8
607	* <b>37Z000078</b>	24	20	6.50	1 1/4

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**PPC Plastic Pipe Cutter**

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

Size (inch)	P/L	Part No.	Max. Wall (inch)
1/2 - 2	607	<b>790 109 001</b>	0.28
1 1/2 - 4	607	<b>790 109 002</b>	0.50
4 - 6	607	<b>790 109 003</b>	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.	Power
6 - 14	607	<b>790 202 001</b>	1750 W; 230 V; 50/60 Hz



150 109 104

**Chamfering Tools**

- Chamfering tool with 15° bevel

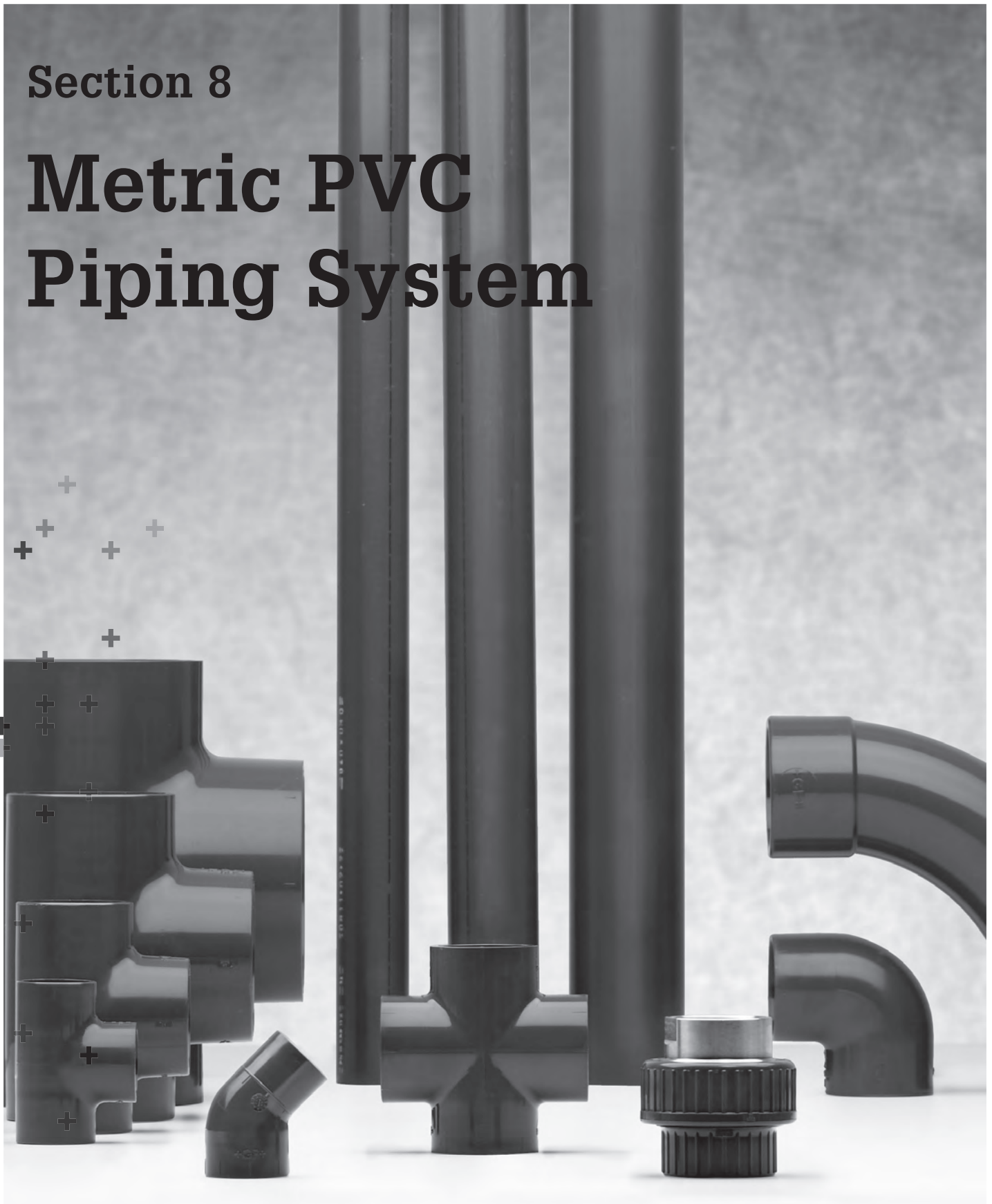
Size (inch)	P/L	Part No.
1 1/4 - 4	607	<b>150 109 104</b>
2 - 14	607	<b>790 309 004</b>










790 309 004

**Section 8**

**Metric PVC  
Piping System**

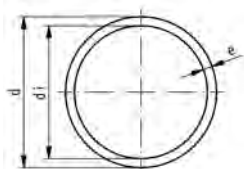


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# Pipes

## Pipes

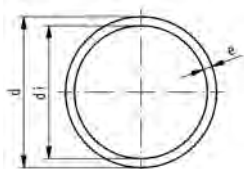


### Pipes PVC, grey Series S 6.3, SDR 13.6, nominal pressure PN 16

#### 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.	weight	e	di
(mm)	(inch)	(bar)		(kg/m)	(mm)	(mm)
12		16	* 161 017 104	0.055	1.0	10.0
16		16	* 161 017 105	0.090	1.2	13.6
20		16	* 161 017 106	0.137	1.5	17.0
25		16	* 161 017 107	0.212	1.9	21.2
32		16	* 161 017 108	0.342	2.4	27.2
40		16	* 161 017 109	0.525	3.0	34.0
50		16	* 161 017 110	0.809	3.7	42.6
63		16	* 161 017 111	1.290	4.7	53.6
75	2 ½	16	* 161 017 112	1.820	5.6	58.2
90		16	* 161 017 113	2.610	6.7	76.6
110		16	* 161 017 114	3.856	8.1	93.8
125		16	161 017 115	4.956	9.2	106.6
140	5	16	161 017 116	6.215	10.3	119.4
160		16	* 161 017 117	8.109	11.8	136.4



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

#### Model:

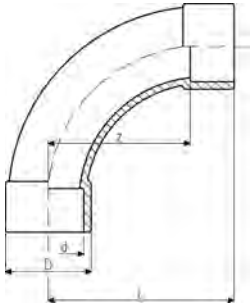
- Material: PVC, Polyvinylchloride unplasticized DIN 806
- Color: RAL 7011 - dark-grey
- Dimension: DIN EN ISO 15493, DIN 8062
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length
- DIBT Z-40.23-1 until d225

d	PN	Part No.	weight	e	di
(mm)	(bar)		(kg/m)	(mm)	(mm)
25	10	* 161 017 082	0.174	1.5	22.0
32	10	* 161 017 083	0.276	1.9	28.4
40	10	* 161 017 084	0.350	1.9	36.2
50	10	* 161 017 085	0.552	2.4	45.2
63	10	* 161 017 086	0.854	3.0	57.0
75	10	* 161 017 087	1.220	3.6	67.8
90	10	* 161 017 088	1.750	4.3	81.4
110	10	* 161 017 089	2.610	5.3	99.4
125	10	161 017 090	3.340	6.0	113.0
140	10	161 017 091	4.180	6.7	126.6
160	10	* 161 017 092	5.470	7.6	144.7
180	10	* 161 017 093	6.880	8.6	162.8
200	10	* 161 017 094	8.510	9.6	180.8
225	10	* 161 017 095	10.800	10.8	203.4
250	10	161 017 096	13.200	11.9	226.2
280	10	161 017 097	16.600	13.4	253.2
315	6	161 017 098	20.900	15.0	285.0



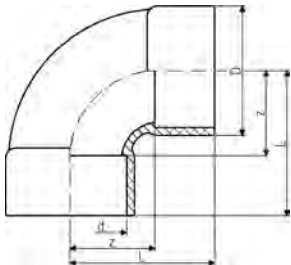
# Fittings

## Pipe Fittings for solvent cement jointing



### Bends 90°, PVC metric

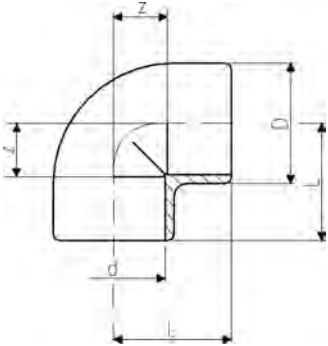
d (mm)	PN (bar)	Part No.	SP	weight (kg)	z (mm)	D (mm)	L (mm)
20	16	<b>721 000 106</b>	10	0.029	40	27	56
25	16	<b>721 000 107</b>	10	0.049	50	33	69
32	16	<b>721 000 108</b>	10	0.074	64	38	86
40	16	<b>721 000 109</b>	30	0.121	80	47	106
50	16	<b>721 000 110</b>	5	0.298	100	61	131
63	16	<b>721 000 111</b>	6	0.516	126	76	164
75	16	<b>721 000 112</b>	5	0.798	150	90	194
90	16	<b>721 000 113</b>	5	1.373	180	108	231
110	16	<b>^ 721 000 114</b>	5	2.699	220	137	281
140	16	<b>721 000 116</b>	2	5.204	280	168	356
160	16	<b>^ 721 000 117</b>	1	8.298	320	192	406



### Bend 90° short pattern PVC-U metric

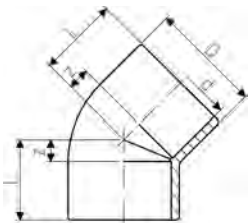
d (mm)	PN (bar)	Part No.	SP	weight (kg)	z (mm)	D (mm)	L (mm)
225	10	<b>721 010 120</b>	1	7.554	168	256	287
280	10	<b>721 010 122</b>	1	16.987	210	318	357
315	6	<b>721 010 123</b>	1	21.567	237	356	402
400	6	<b>721 010 125</b>	1	30.000	300	442	521

**Elbows 90°, PVC metric**



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

**Elbows 45°, PVC metric**



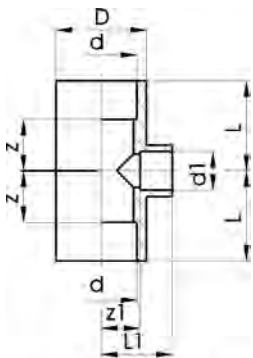
d (mm)	d (inch)	PN (bar)	Part No.	SP	weight (kg)	z (mm)	D (mm)	L (mm)
16		16	<b>721 150 105</b>	10	0.008	5	21	19
20		16	<b>721 150 106</b>	10	0.011	5	25	21
25		16	<b>721 150 107</b>	10	0.017	6	31	25
32		16	<b>721 150 108</b>	10	0.021	8	38	30
40		16	<b>721 150 109</b>	10	0.048	10	47	36
50		16	<b>721 150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

**Tees, PVC  
metric**



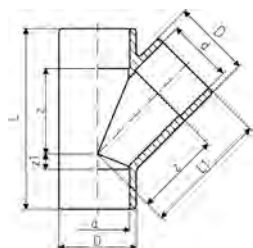
d (mm)	d (inch)	PN (bar)	Part No.	SP	weight (kg)	D (mm)	L (mm)	z (mm)
6		16	<b>721 200 101</b>	10	0.004	11	16	4
8		16	<b>721 200 102</b>	10	0.008	13	17	5
10		16	<b>721 200 103</b>	10	0.008	16	18	6
12		16	<b>721 200 104</b>	10	0.011	19	19	7
16		16	<b>721 200 105</b>	10	0.011	21	23	9
20		16	<b>721 200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

Tee 90° reducing PVC-U metric



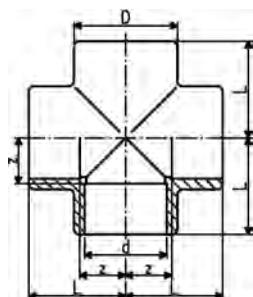
d (mm)	d1 (mm)	PN (bar)	d-d (inch)	Part No.	SP weight (kg)	z (mm)	z1 (mm)	D (mm)	L (mm)	L1 (mm)	
25	20	16		721 200 134	10	0.038	14	14	33	33	30
32	20	16		721 200 141	10	0.061	17	17	41	39	33
32	25	16		721 200 138	10	0.063	17	17	41	39	36
40	20	16		721 200 155	10	0.103	23	23	50	49	39
40	25	16		721 200 151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

**Wye Branch, PVC metric**



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

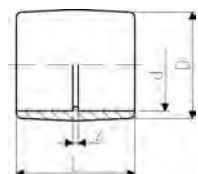
**Cross, PVC metric**



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

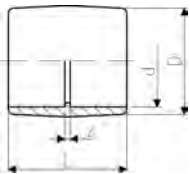
**Coupling, PVC metric**

<sup>1</sup> Socket d355 and d400 fabricated from pipe

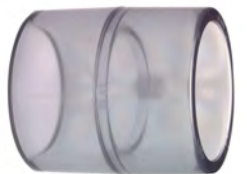


d (mm)	d (inch)	PN (bar)	Part No.	SP	weight (kg)	z (mm)	D (mm)	L (mm)
6		16	* 721 910 101	10	0.004	3	12	27
8		16	* 721 910 102	10	0.005	3	14	27
10		16	* 721 910 103	1	0.004	3	16	27
12		16	* 721 910 104	1	0.004	3	19	27
16		16	721 910 105	10	0.006	3	22	31
20		16	721 910 106	10	0.011	3	26	35
25		16	721 910 107	10	0.015	3	32	41
32		16	721 910 108	10	0.026	3	39	47
40		16	721 910 109	10	0.045	3	48	55
50		16	721 910 110	10	0.064	3	58	65
63		16	721 910 111	10	0.118	3	73	79
75	2 ½	16	721 910 112	10	0.188	4	87	92

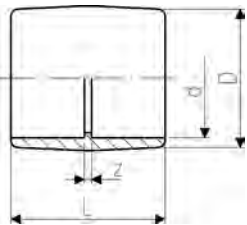
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d (mm)	d (inch)	PN (bar)	Part No.	SP weight (kg)	z (mm)	D (mm)	L (mm)	
90		16	<b>721 910 113</b>	10	0.328	5	105	107
110		16	<b>721 910 114</b>	6	0.554	6	128	128
125		16	<b>721 910 115</b>	3	0.825	7	142	145
140	5	16	<b>721 910 116</b>	2	1.118	7	162	159
160		16	<b>721 910 117</b>	2	1.540	8	183	180
200		10	<b>*721 910 119</b>	1	2.559	9	221	221
225		10	<b>*721 910 120</b>	2	3.519	10	253	248
250		10	<b>721 910 121</b>	1	5.394	16	284	284
280		10	<b>721 910 122</b>	1	8.312	16	321	314
315		6	<b>721 910 123</b>	1	10.388	16	356	348
1	355	6	<b>721 910 124</b>	0	10.706	68	377	454
1	400	6	<b>721 910 125</b>	0	11.326	73	425	505



**Coupling, PVC transparent metric**



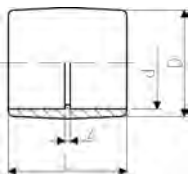
d (mm)	PN (bar)	Part No.	SP weight (kg)	z (mm)	D (mm)	L (mm)	
16	16	<b>752 910 105</b>	10	0.009	3	23	31
20	16	<b>752 910 106</b>	1	0.012	3	27	35
25	16	<b>752 910 107</b>	1	0.016	3	32	41
32	16	<b>752 910 108</b>	1	0.027	3	40	47
40	16	<b>752 910 109</b>	1	0.061	3	52	55
50	16	<b>752 910 110</b>	1	0.068	3	60	65
63	16	<b>752 910 111</b>	5	0.115	3	75	79



**Outlet socket coupling PVC**

**Model:**

- With solvent cement sockets metric and BS inch



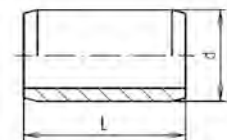
d (mm)	d (inch)	PN (bar)	Part No.	SP weight (kg)	z (mm)	D (mm)	L (mm)	
16	3/8	16	<b>721 913 105</b>	10	0.010	5	23	35
20	1/2	16	<b>721 913 106</b>	10	0.012	5	27	38
25	3/4	16	<b>721 913 107</b>	10	0.020	5	33	45
32	1	16	<b>721 913 108</b>	10	0.031	5	41	51
40	1 1/4	16	<b>721 913 109</b>	10	0.054	5	51	60
50	1 1/2	16	<b>721 913 110</b>	10	0.074	4	59	65
63	2	16	<b>721 913 111</b>	5	0.155	5	75	79
90	3	16	<b>721 913 113</b>	10	0.340	6	104	108
110	4	16	<b>721 913 115</b>	5	0.488	4	128	128



**Barrel Nipples, PVC metric**

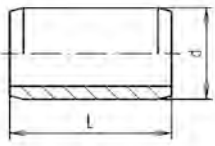
**Model:**

- 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.	weight (kg)	L (mm)
16		16	<b>721 900 905</b>	0.002	28
20		16	<b>721 900 906</b>	0.005	32
25		16	<b>721 900 907</b>	0.009	38
32		16	<b>721 900 908</b>	0.015	44

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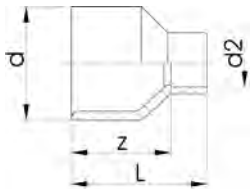
d (mm)	d (inch)	PN (bar)	Part No.	weight (kg)	L (mm)
40		16	<b>721 900 909</b>	0.027	52
50		16	<b>721 900 910</b>	0.048	62
63		16	<b>721 900 911</b>	0.092	76
75	2 ½	16	<b>721 900 912</b>	0.156	88
90		16	<b>721 900 913</b>	0.260	102
110		16	<b>721 900 914</b>	0.455	122
125		16	<b>721 900 915</b>	0.673	138
140	5	16	<b>721 900 916</b>	0.932	152
160		16	<b>^ 721 900 917</b>	1.565	192
200		10	<b>* 721 900 919</b>	1.779	212
225		10	<b>* 721 900 920</b>	2.566	238



**Reducer Bushing, PVC metric**

**Model:**

- With solvent cement spigot and socket metric

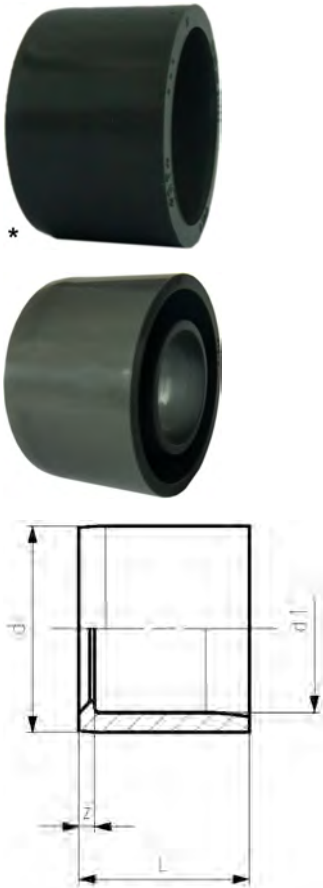


d (mm)	d2 (mm)	PN (bar)	Part No.	SP weight (kg)	z (mm)	L (mm)
8	6	16	<b>* 721 910 323</b>	10 0.003	15	27
10	6	16	<b>* 721 910 326</b>	10 0.003	15	27
10	8	16	<b>* 721 910 325</b>	10 0.003	15	27
20	16	16	<b>721 910 334</b>	10 0.009	21	35
25	20	16	<b>721 910 337</b>	10 0.014	25	41
32	25	16	<b>721 910 341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

**Reducing bush short PVC-U metric**

**Model:**

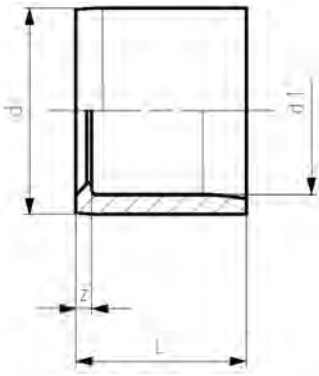
- With solvent cement spigot and socket metric



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

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



**Cap, PVC metric**

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

**Adapter Fittings**



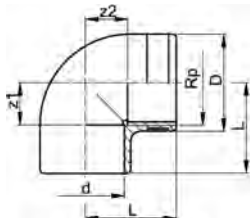
**Adaptor fitting PVC-U metric - victaulic**

**Model:**

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

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

### Elbow 90° PVC-U metric Rp



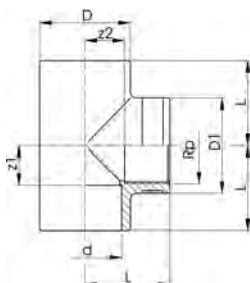
**Model:**

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

### Tee 90° PVC-U metric Rp

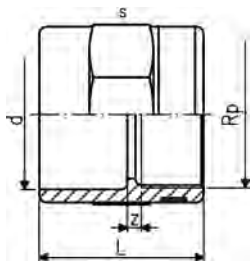


**Model:**

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

d (mm)	Rp (inch)	PN (bar)	Part No.	SP	weight (kg)	z1 (mm)	z2 (mm)	D (mm)	D1 (mm)	L (mm)
12	1/4	16	721 200 204	10	0.015	7	7	17	20	19
16	3/8	16	721 200 205	10	0.027	9	9	21	25	23
20	1/2	16	721 200 206	10	0.029	11	13	26	30	29
25	3/4	16	721 200 207	10	0.043	14	15	32	35	33
32	1	16	721 200 208	10	0.080	17	19	40	45	39
40	1 1/4	16	721 200 209	10	0.134	23	26	47	55	49
50	1 1/2	16	721 200 210	5	0.212	27	36	59	59	59
63	2	16	721 200 211	5	0.379	33	46	74	75	71

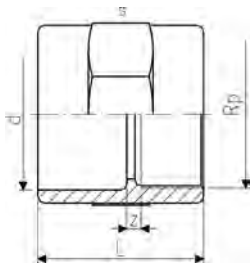
### Adaptor socket PVC-U metric Rp



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

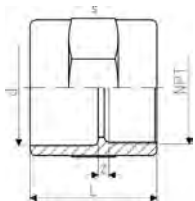


### Adaptor socket PVC-U metric Rp

**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.	SP weight (kg)	z (mm)	L (mm)	s (mm)	
75	2 ½	10	<b>721 916 012</b>	10	0.220	7	82	90
90	3	10	<b>721 916 013</b>	5	0.365	9	94	110
110	4	10	<b>721 916 014</b>	5	0.536	9	110	130

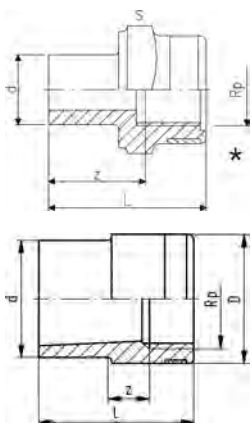


### Female Adaptor, PVC metric - NPT

**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.	SP weight (kg)	z (mm)	L (mm)	s (mm)
20	¾	10	<b>721 914 206</b>	10	0.021	5	32
25	¾	10	<b>721 914 207</b>	10	0.028	6	40
32	1	10	<b>721 914 208</b>	10	0.049	6	45
40	1 ¼	10	<b>721 914 209</b>	10	0.076	6	51
50	1 ½	10	<b>721 914 210</b>	10	0.110	10	59
63	2	10	<b>721 914 211</b>	5	0.175	10	69

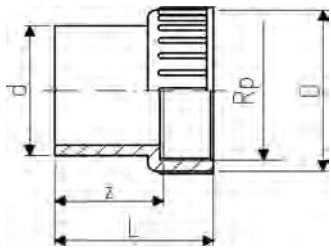


### Reducing bush PVC-U metric Rp

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

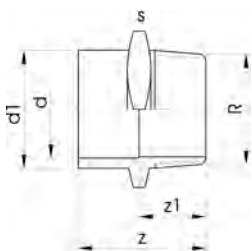


### Adaptor bush equal PVC-U metric Rp

**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.	SP weight (kg)	z (mm)	D (mm)	L (mm)
20	½	10	721 900 406	10	0.012	22	37
25	¾	10	721 900 407	10	0.018	25	41
32	1	10	721 900 408	10	0.035	29	48
40	1 ¼	10	721 900 409	10	0.063	34	56
50	1 ½	10	721 900 410	10	0.097	40	61
63	2	10	721 900 411	5	0.170	49	74

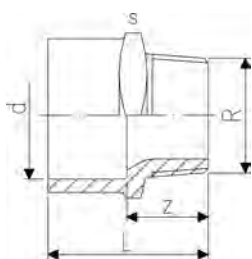


### Adaptor socket nipple PVC-U metric R

**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.	SP weight (kg)	z (mm)	z1 (mm)	s (mm)
12	16	¾	16	721 910 555	10	0.010	35	27
16	20	½	16	721 910 556	10	0.016	42	32
20	25	¾	16	721 910 557	10	0.023	47	36
25	32	1	16	721 910 558	10	0.040	54	46
32	40	1 ¼	16	721 910 559	10	0.061	60	55
40	50	1 ½	16	721 910 560	10	0.094	66	65
50	63	2	16	721 910 561	5	0.164	78	80

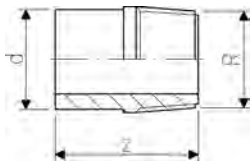


### Adaptor bush equal PVC-U metric R

**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.	SP weight (kg)	z (mm)	L (mm)	s (mm)
¾	¾	16	16	721 910 705	10	0.011	20	27
½	½	20	16	721 910 706	10	0.018	24	32
¾	¾	25	16	721 910 707	10	0.025	25	36
1	1	32	16	721 910 708	10	0.039	28	46
1 ¼	1 ¼	40	16	721 910 709	10	0.061	31	55
1 ½	1 ½	50	16	721 910 710	10	0.092	32	65
2	2	63	16	721 910 711	5	0.161	38	80
2 ½	2 ½	75	10	721 910 712	6	0.227	42	90
3	3	90	10	721 910 713	5	0.389	46	110
4	4	110	10	721 910 714	5	0.572	53	130

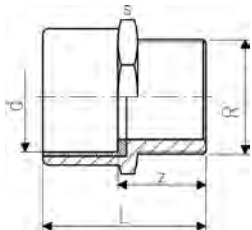


**Adaptor nipple PVC-U metric R**

**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.	SP weight (kg)	z (mm)
16	3/8	10	721 913 505	10	0.006
20	1/2	10	721 913 506	10	0.010
25	3/4	10	721 913 507	10	0.017
32	1	10	721 913 508	10	0.026

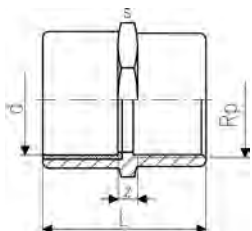


**Adaptor socket brass/PVC-U metric R**

**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.	SP weight (kg)	z (mm)	L (mm)	s (mm)
40	1 1/4	16	720 910 709	1	0.437	36	64
50	1 1/2	16	720 910 710	1	0.671	38	72
63	2	16	720 910 711	1	1.035	43	85

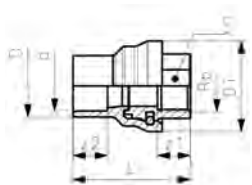


**Adaptor socket brass/PVC-U metric Rp**

**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.	SP weight (kg)	z (mm)	L (mm)	s (mm)
40	1 1/4	16	720 910 209	1	0.482	17	66
50	1 1/2	16	720 910 210	1	0.737	19	74
63	2	16	720 910 211	1	1.130	19	86

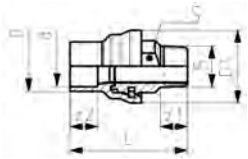


**Adaptor Fitting PVC-U/brass Rp**

**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.	SP weight (kg)	z1 (mm)	z2 (mm)	D1 (mm)	L (mm)	S (mm)
20	25	16	1/2	721 950 106	10	0.098	17.0	16.5	40	54.5
25	32	16	3/4	721 950 107	5	0.181	18.5	19.0	50	65.2
32	40	16	1	721 950 108	5	0.270	21.5	22.5	59	76.5

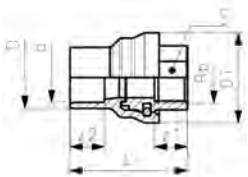


### Adaptor Fitting PVC-U/brass R

**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.	SP weight (kg)	z1 (mm)	z2 (mm)	D1 (mm)	L (mm)	S (mm)	
20	25	16	½	721 950 606	10	0.129	17	17	40	70	25
25	32	16	¾	721 950 607	5	0.232	19	19	50	83	30
32	40	16	1	721 950 608	5	0.390	22	23	59	96	36

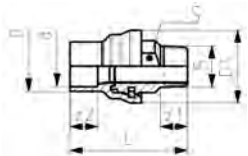


### Adaptor Fitting PVC-U/stainless steel Rp

**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.	SP weight (kg)	z1 (mm)	z2 (mm)	D1 (mm)	L (mm)	S (mm)	
20	25	16	½	721 940 106	10	0.095	17	17	40	70	25
25	32	16	¾	721 940 107	5	0.171	19	19	50	83	30
32	40	16	1	721 940 108	5	0.262	22	23	59	96	36

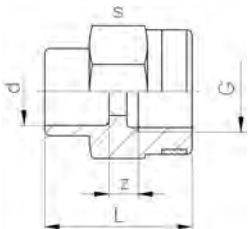


### Adaptor Fitting PVC-U/stainless steel R

**Model:**

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

PN (bar)	D (mm)	R (inch)	d (mm)	Part No.	SP weight (kg)	D1 (mm)	S (mm)	z2 (mm)	z1 (mm)	L (mm)	
16	25	½	20	721 940 606	10	0.120	40	25	17	17	70
16	32	¾	25	721 940 607	5	0.213	50	30	19	19	83
16	40	1	32	721 940 608	5	0.320	59	36	23	22	96



### 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

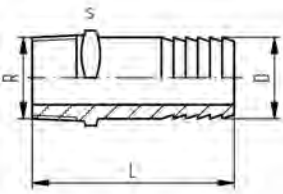
d (mm)	G (inch)	PN (bar)	Part No.	SP weight (kg)	z (mm)	L (mm)	s (mm)	
12	¼	16	721 916 204	10	0.010	4	27	22
16	½	16	721 916 206	10	0.026	7	36	32



### Hose connector PVC-U R

**Model:**

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



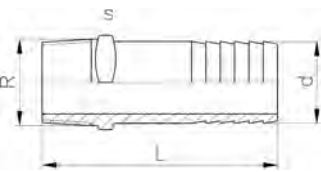
R (inch)	PN (bar)	Part No.	SP	weight (kg)	D (mm)	L (mm)	s (mm)
¼	10	<b>721 960 704</b>	10	0.003	12	59	14
¾	10	<b>721 960 705</b>	10	0.006	16	67	19
½	10	<b>721 960 706</b>	10	0.019	20	86	22
¾	10	<b>721 960 707</b>	10	0.026	25	92	27
1	10	<b>721 960 708</b>	5	0.048	30	103	36
1 ¼	10	<b>721 960 709</b>	5	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



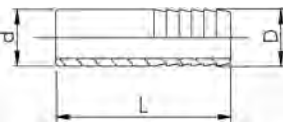
R (inch)	Part No.	SP	weight (kg)	s (mm)	d (mm)	L (mm)
½	<b>721 961 706</b>	10	0.012	22	14	70
¾	<b>721 961 707</b>	10	0.021	27	20	80
1	<b>721 961 708</b>	5	0.042	36	27	90



### Hose Connector, PVC metric

**Model:**

- With solvent cement spigot metric and parallel hose connection



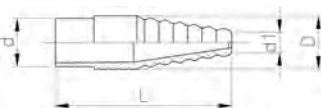
d (mm)	PN (bar)	Part No.	SP	weight (kg)	D (mm)	L (mm)
10	16	<b>* 721 960 403</b>	10	0.002	8	47
12	16	<b>* 721 960 404</b>	10	0.003	12	51
16	16	<b>721 960 405</b>	10	0.008	16	57
20	16	<b>721 960 406</b>	10	0.016	20	73
25	16	<b>721 960 407</b>	10	0.021	25	79
32	16	<b>721 960 408</b>	10	0.035	30	89
40	16	<b>721 960 409</b>	5	0.060	40	100
50	16	<b>721 960 410</b>	5	0.112	50	105
63	16	<b>721 960 411</b>	5	0.180	60	120
32	16	<b>721 960 508</b>	10	0.035	32	89



### Hose connector PVC-U metric

**Model:**

- With solvent cement spigot metric and tapered hose connection



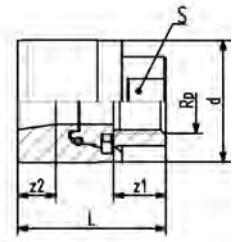
d (mm)	PN (bar)	Part No.	SP weight (kg)	d1 (mm)	D (mm)	L (mm)
10	16	<b>721 960 303</b>	10	0.004	6	51
12	16	<b>721 960 304</b>	10	0.004	6	51
16	16	<b>721 960 305</b>	10	0.007	8	57
20	16	<b>721 960 306</b>	10	0.016	11	73

### Adaptor fitting PVC-U/brass



**Model:**

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



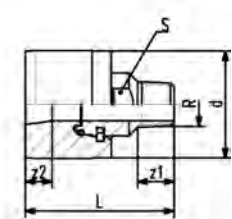
d (mm)	Rp (inch)	PN (bar)	Part No.	SP weight (kg)	z1 (mm)	z2 (mm)	L (mm)	S (mm)	
40	½	10	<b>721 950 131</b>	10	0.279	17.0	12.4	48.2	25
50	½	10	<b>721 950 132</b>	5	0.355	17.0	12.5	54.2	25
50	¾	10	<b>721 950 133</b>	10	0.362	18.5	13.0	54.9	30
63	½	10	<b>721 950 134</b>	10	0.526	17.0	7.1	66.2	25
63	¾	10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



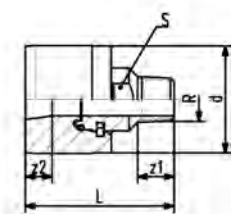
d (mm)	R (inch)	PN (bar)	Part No.	SP weight (kg)	z1 (mm)	z2 (mm)	L (mm)	S (mm)	
40	½	10	<b>721 950 631</b>	10	0.352	17.0	12.4	63.2	25
50	½	10	<b>721 950 632</b>	10	0.438	17.0	12.5	69.2	25
50	¾	10	<b>721 950 633</b>	10	0.442	18.5	13.0	72.9	30
63	½	10	<b>721 950 634</b>	10	0.498	17.0	7.1	81.2	25
63	¾	10	<b>721 950 635</b>	10	0.512	18.5	13.0	84.9	30
63	1	10	<b>721 950 636</b>	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.	SP weight (kg)	z1 (mm)	z2 (mm)	L (mm)	S (mm)	
40	½	10	<b>721 940 631</b>	10	0.335	17.0	12.4	63.2	25
50	½	10	<b>721 940 632</b>	10	0.402	17.0	12.5	69.2	25
50	¾	10	<b>721 940 633</b>	10	0.414	18.5	13.0	72.9	30
63	½	10	<b>721 940 634</b>	10	0.521	17.0	7.1	81.2	25
63	¾	10	<b>721 940 635</b>	10	0.533	18.5	13.0	84.9	30
63	1	10	<b>721 940 636</b>	10	0.542	21.5	18.9	89.7	36



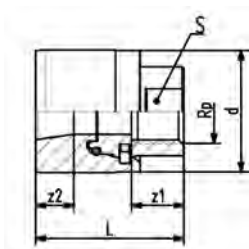
**Adaptor fitting PVC-U/stainless steel**



**Model:**

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

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



**Threaded Fittings**

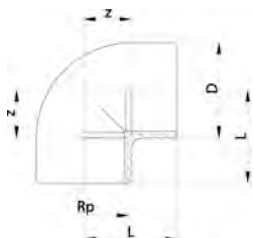
**Elbow 90° PVC-U Rp**



**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.	SP	weight	z	D	L
(inch)	(bar)			(kg)	(mm)	(mm)	(mm)
¾	10	<b>721 101 605</b>	10	0.013	9	23	23
½	10	<b>721 101 606</b>	10	0.017	12	27	27
¾	10	<b>721 101 607</b>	10	0.029	15	33	33
1	10	<b>721 101 608</b>	10	0.042	19	39	39
1 ¼	10	<b>721 101 609</b>	10	0.070	27	48	49
1 ½	10	<b>721 101 610</b>	5	0.178	35	61	59
2	10	<b>721 101 611</b>	5	0.322	44	75	72



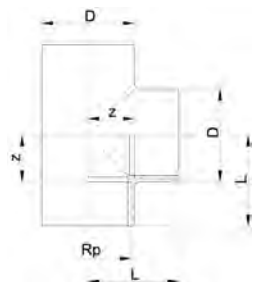
**Tee 90° equal PVC-U Rp**

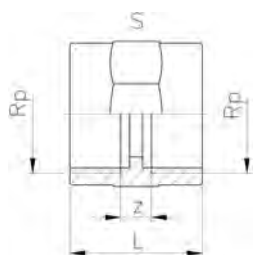


**Model:**

- 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.	SP	weight	z	D	L
(inch)	(bar)			(kg)	(mm)	(mm)	(mm)
¾	10	<b>721 201 605</b>	10	0.016	9	23	23
½	10	<b>721 201 606</b>	10	0.027	12	28	27
¾	10	<b>721 201 607</b>	10	0.039	15	33	33
1	10	<b>721 201 608</b>	5	0.072	19	41	39
1 ¼	10	<b>721 201 609</b>	100	0.146	27	50	49
1 ½	10	<b>721 201 610</b>	10	0.267	36	62	60
2	10	<b>721 201 611</b>	10	0.485	44	77	72



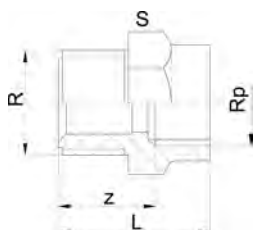


### Socket PVC-U Rp

**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.	SP	weight (kg)	z (mm)	L (mm)	s (mm)
¼	10	<b>721 910 604</b>	10	0.010	7	27	22
¾	10	<b>721 910 605</b>	10	0.015	7	29	27
½	10	<b>721 910 606</b>	10	0.024	9	35	32
¾	10	<b>721 910 607</b>	10	0.029	9	39	36
1	10	<b>721 910 608</b>	10	0.053	11	45	46
1 ¼	10	<b>721 910 609</b>	10	0.076	11	49	55
1 ½	10	<b>721 910 610</b>	10	0.106	11	49	65
2	10	<b>721 910 611</b>	5	0.180	11	57	80

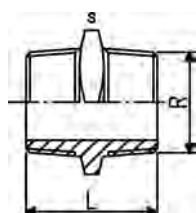


### Reducing bush PVC-U R Rp

**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.	SP	weight (kg)	z (mm)	L (mm)	s (mm)
½	¾	10	<b>721 910 834</b>	10	0.014	25	36	27
¾	½	10	<b>721 910 837</b>	10	0.021	25	39	32
1	½	10	<b>721 910 842</b>	10	0.029	31	45	32
1	¾	10	<b>721 910 841</b>	10	0.031	29	45	36
1 ¼	1	10	<b>721 910 846</b>	10	0.050	32	50	46
1 ½	1 ¼	10	<b>721 910 852</b>	10	0.065	35	55	55
2	1 ½	10	<b>721 910 858</b>	5	0.127	45	65	65



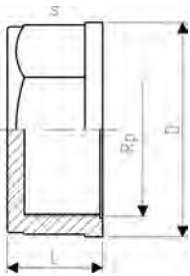
### Threaded nipple R PVC-U

**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.	SP	weight (kg)	L (mm)	s (mm)
¾	10	A	<b>721 911 905</b>	10	0.007	37	19
½	10	A	<b>721 911 906</b>	10	0.012	45	22
¾	10	A	<b>721 911 907</b>	10	0.019	49	27
1	10	A	<b>721 911 908</b>	10	0.034	57	36
1 ¼	10	A	<b>721 911 909</b>	10	0.052	62	46
1 ½	10	A	<b>721 911 910</b>	10	0.070	67	50
2	10	A	<b>721 911 911</b>	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.	SP	weight (kg)	D (mm)	L (mm)	s (mm)
3/8	10	<b>721 960 605</b>	10	0.012	31	19	27
1/2	10	<b>721 960 606</b>	10	0.018	37	21	32
3/4	10	<b>721 960 607</b>	10	0.024	42	24	36
1	10	<b>721 960 608</b>	10	0.040	50	26	46
1 1/4	10	<b>721 960 609</b>	10	0.060	60	29	55
1 1/2	10	<b>721 960 610</b>	10	0.072	65	31	60
2	10	<b>721 960 611</b>	5	0.127	81	36	75

### Plug PVC-U G

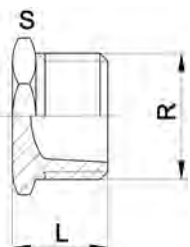


**Model:**

- 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.	SP	weight (kg)	L (mm)	s (mm)
3/8	10	<b>721 960 905</b>	10	0.005	21	22
1/2	10	<b>721 960 906</b>	10	0.010	25	27
3/4	10	<b>721 960 907</b>	10	0.018	29	36
1	10	<b>721 960 908</b>	10	0.029	32	41
1 1/4	10	<b>721 960 909</b>	10	0.048	36	50
1 1/2	10	<b>721 960 910</b>	10	0.070	37	60
2	10	<b>721 960 911</b>	5	0.120	42	75

### Plug PVC-U R

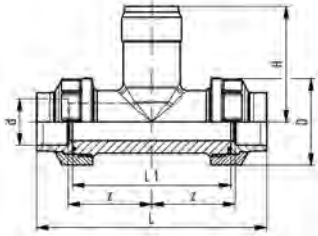


**Model:**

- 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.	SP	weight (kg)	L (mm)	s (mm)
3/8	10	<b>721 961 905</b>	10	0.006	21	22
1/2	10	<b>721 961 906</b>	10	0.011	25	27
3/4	10	<b>721 961 907</b>	10	0.020	29	36
1	10	<b>721 961 908</b>	10	0.030	32	41
1 1/4	10	<b>721 961 909</b>	10	0.048	36	50
1 1/2	10	<b>721 961 910</b>	10	0.071	37	60
2	10	<b>721 961 911</b>	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:

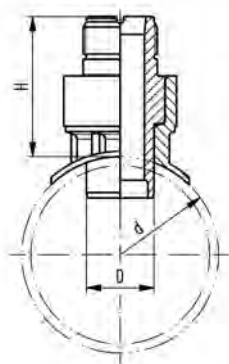
- Sensor length depends on installation fitting

### Model:

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

Type	d (mm)	DN (mm)	PN (bar)	EPDM Part No.	SP weight (kg)	FKM Part No.	SP weight (kg)
PVMT005	20	15	16	<b>721 310 006</b>	1 0.181	<b>721 310 036</b>	1 0.181
PVMT007	25	20	16	<b>721 310 007</b>	1 0.226	<b>721 310 037</b>	1 0.226
PVMT010	32	25	16	<b>721 310 008</b>	1 0.303	<b>721 310 038</b>	1 0.304
PVMT012	40	32	16	<b>721 310 009</b>	1 0.419	<b>721 310 039</b>	1 0.479
PVMT015	50	40	16	<b>721 310 010</b>	1 0.568	<b>721 310 040</b>	1 0.571
PVMT020	63	50	16	<b>721 310 011</b>	1 0.879	<b>721 310 041</b>	1 0.881

L1 (mm)	D (mm)	H (mm)	L (mm)	Sensor Type	z (mm)
90	43	76	128	flow X0, pH XX	48
100	51	78	144	flow X0, pH XX	53
110	58	81	160	flow X0, pH XX	58
110	72	85	168	flow X0, pH XX	58
120	83	89	188	flow X0, pH XX	63
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 1/4" NPSM

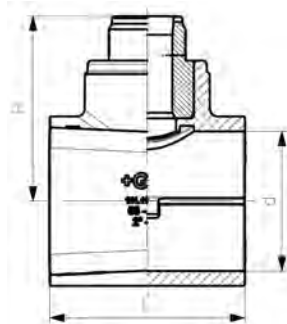
**Range of use:**

- 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.	SP weight (kg)	D (mm)	Sensor Type	H (mm)	
10	65	75	<b>721 312 012</b>	1	0.220	38	flow X1	89
10	80	90	<b>721 312 013</b>	1	0.228	38	flow X1	89
10	100	110	<b>721 312 014</b>	1	0.225	38	flow X1	89
10	100	125	<b>721 312 015</b>	1	0.218	38	flow X1	81
10	125	140	<b>721 312 016</b>	1	0.213	38	flow X1	79
10	150	160	<b>721 312 017</b>	1	0.217	38	flow X1	76
10	200	200	<b>721 312 019</b>	1	0.192	38	flow X1	69
10	200	225	<b>721 312 020</b>	1	0.297	38	flow X2	141
10	250	250	<b>721 312 021</b>	1	0.295	38	flow X2	137
10	300	315	<b>721 312 023</b>	1	0.290	38	flow X2	127



**Installation fitting type 312**  
**PVC-U metric clamp on saddle**

**Model:**

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

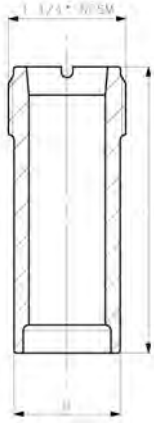
**Range of use:**

- Compatible Signet flow sensors: 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 (mm)	d (mm)	Part No.	SP weight (kg)	Sensor Type	H (mm)	L (mm)	
65	16	75	<b>198 150 538</b>	1	0.780	flow X0, pH XX	99	105
80	16	90	<b>198 150 539</b>	1	0.835	flow X0, pH XX	105	105
100	16	110	<b>198 150 540</b>	1	0.885	flow X0, pH XX	114	105
150	16	160	<b>198 150 543</b>	1	1.375	flow X1	157	120
200	16	225	<b>198 150 545</b>	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

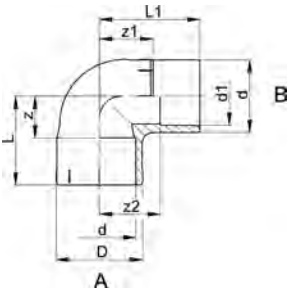
**Range of use:**

- 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.	SP	weight (kg)	Sensor Type	D (mm)	L (mm)
65 - 150	75 - 180	-	<b>721 314 000</b>	1	0.053	flow X0, pH XX	38	68
200 - 350	200 - 355	-	<b>721 314 001</b>	1	0.078	flow X1	38	102
350 - 600	400 - 630	-	<b>721 314 002</b>	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.	SP	weight (kg)	z (mm)	z1 (mm)	z2 (mm)	D (mm)	L (mm)	L1 (mm)
20	16	16	<b>721 100 306</b>	10	0.011	11	16	18	25	27	32
25	20	16	<b>721 100 307</b>	10	0.020	14	18	21	31	33	37
32	25	16	<b>721 100 308</b>	10	0.038	17	22	25	38	39	44
40	32	16	<b>721 100 309</b>	10	0.069	23	30	34	47	49	56
50	40	16	<b>721 100 310</b>	10	0.122	26	36	41	58	57	67
63	50	16	<b>721 100 311</b>	10	0.237	33	45	52	73	71	83

**PRO-FIT elbow 45° PVC-U metric**

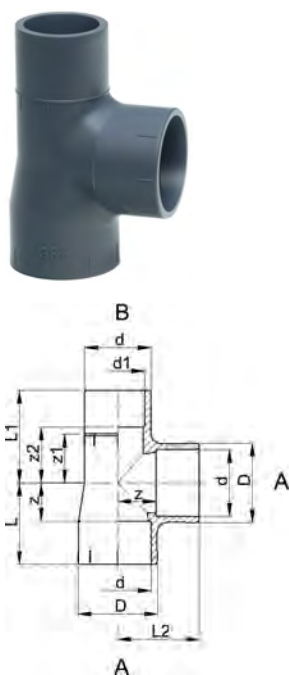


**Model:**

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

**PRO-FIT tee 90° equal PVC-U metric**

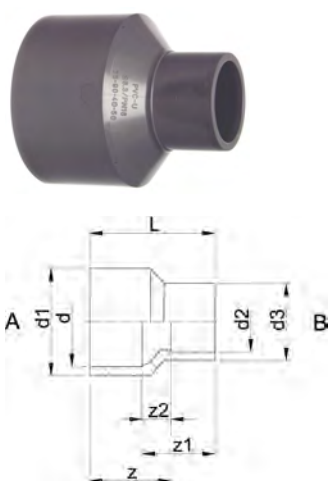


**Model:**

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

d (mm)	d1 (mm)	PN (bar)	Part No.	SP weight (kg)	z (mm)	z1 (mm)	z2 (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	
20	16	16	721 200 306	10	0.017	11	17	19	25	27	33	27
25	20	16	721 200 307	10	0.022	14	19	22	31	33	38	33
32	25	16	721 200 308	10	0.051	17	24	27	38	39	46	39
40	32	16	721 200 309	10	0.098	23	30	34	47	47	56	49
50	40	16	721 200 310	10	0.164	26	36	41	58	57	67	57
63	50	16	721 200 311	10	0.329	33	45	52	73	71	83	71

**PRO-FIT reducing bush PVC-U metric**

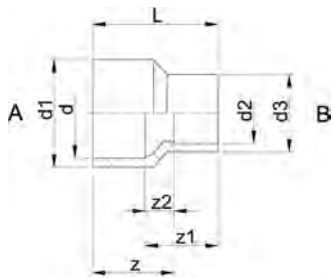


**Model:**

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

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

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

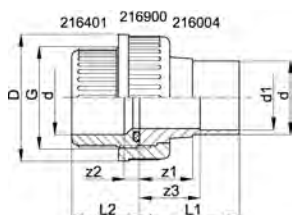
## Unions for solvent cement jointing



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

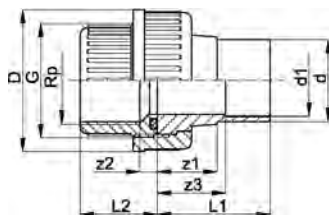
d (mm)	G (inch)	z1 (mm)	z2 (mm)	z3 (mm)	D (mm)	L1 (mm)	L2 (mm)	
*	16	¾	22	10	24	35	36	24
*	20	1	24	10	26	43	40	26
*	25	1 ¼	25	10	28	51	44	29
*	32	1 ½	27	10	30	58	49	33
	40	2	31	12	35	74	57	39
	50	2 ¼	35	14	40	83	66	46
	63	2 ¾	39	18	46	100	77	58



## Adaptor unions



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### PRO-FIT adaptor union PVC-U metric Rp

#### Model:

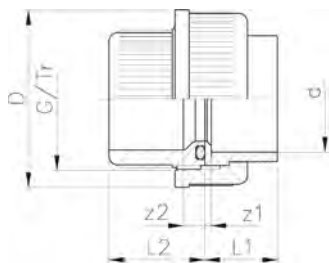
- Union End: Solvent cemented spigot in combination with reducing socket metric
- Union Bush: Threaded socket with parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 005-011
- Gasket: O-ring FKM code no. 749 410 005-011 (to be ordered separately)
- Connection to plastic thread only
- Do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

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

	d (mm)	G (inch)	z1 (mm)	z2 (mm)	z3 (mm)	D (mm)	L1 (mm)	L2 (mm)
*	16	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



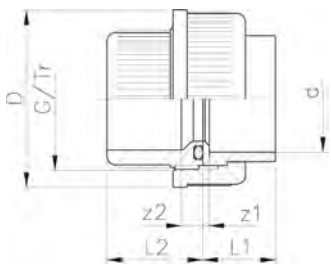
#### Union for solvent cement jointing, PVC metric

#### 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.	SP	weight (kg)	FKM Part No.	SP	weight (kg)
10		16	* 721 510 103	10	0.021	* 721 510 128	10	0.020
12		16	* 721 510 104	10	0.020	* 721 510 129	10	0.019
16		16	721 510 105	10	0.025	721 510 130	10	0.025
20		16	721 510 106	10	0.041	721 510 131	10	0.042
25		16	721 510 107	10	0.058	721 510 132	10	0.058
32		16	721 510 108	10	0.083	721 510 133	10	0.084
40		16	721 510 109	10	0.147	721 510 134	10	0.152
50		16	721 510 110	5	0.203	721 510 135	2	0.207
63		16	721 510 111	5	0.356	721 510 136	5	0.361
75	2 1/2	10	721 510 112	2	0.614	721 510 137	2	0.621
90		10	721 510 313	2	0.920	721 510 338	2	0.929
110		10	721 510 114	1	1.434	721 510 139	1	1.492

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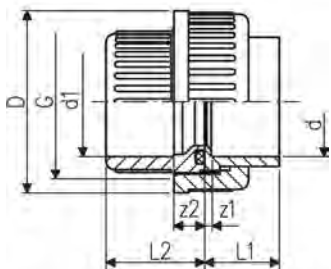
d	z1	z2	D	L1	L2	G/Tr
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)
10	3	10	31	15	22	5/8
12	3	10	31	15	22	5/8
16	3	10	35	17	24	3/4
20	3	10	43	19	26	1
25	3	10	51	22	29	1 1/4
32	3	10	58	25	33	1 1/2
40	3	12	72	29	39	2
50	3	14	83	34	46	2 1/4
63	3	18	100	41	58	2 3/4
75	3	18	135	47	62	Tr108x5
90	5	18	158	56	69	Tr128x5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



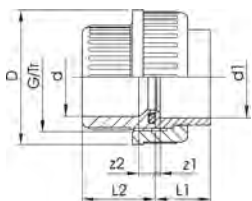
PN	d	d1	Part No.	SP weight	G	z1	z2	D	L1	L2	
(bar)	(mm)	(inch)		(kg)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	
15	16	3/8	<b>721 513 105</b>	10	0.025	3/8	3	8	35	17	24
15	20	1/2	<b>721 513 106</b>	10	0.040	1	3	9	43	19	26
15	25	3/4	<b>721 513 107</b>	10	0.065	1 1/4	3	9	51	22	29
15	32	1	<b>721 513 108</b>	10	0.090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



**Union for solvent cement jointing, PVC metric - ASTM Socket**

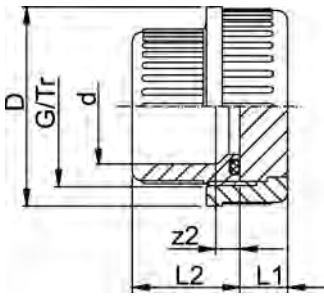
**Model:**

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

**Union with union end blank PVC-U metric**



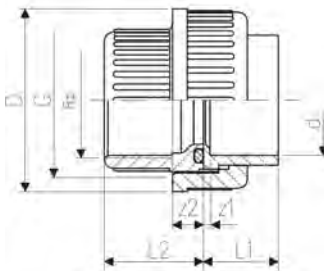
**Model:**

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

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

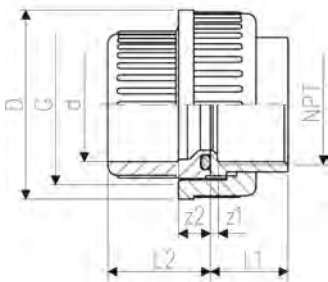


**Adaptor union PVC-U metric Rp**

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

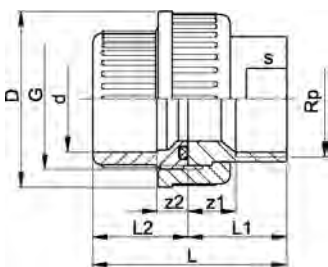


### Adaptor Union, PVC metric - ASTM NPT

**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 (mm)	NPT (inch)	PN (bar)	EPDM Part No.	SP weight (kg)	G (inch)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)	
16	3/8	10	721 514 205	10	0.026	3/8	4	10	35	17	24
20	1/2	10	721 514 206	10	0.042	1	2	10	43	19	26
25	3/4	10	721 514 207	10	0.068	1 1/4	4	10	51	22	29
32	1	10	721 514 208	10	0.093	1 1/2	4	10	58	25	33
40	1 1/4	10	721 514 209	2	0.150	2	6	12	72	29	39
50	1 1/2	10	721 514 210	2	0.228	2 1/4	11	14	83	34	46
63	2	10	721 514 211	2	0.387	2 3/4	17	18	100	41	58



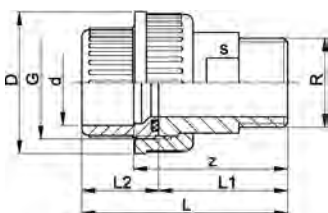
### Adaptor union PVC-U/stainless steel metric Rp

**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 (inch)	d (mm)	PN (bar)	EPDM Part No.	SP weight (kg)	FKM Part No.	SP weight (kg)
3/8	16	16	721 540 205	10	0.053	721 540 230
1/2	20	16	721 540 206	10	0.096	721 540 231
3/4	25	16	721 540 207	5	0.154	721 540 232
1	32	16	721 540 208	5	0.212	721 540 233
1 1/4	40	16	721 540 209	2	0.356	721 540 234
1 1/2	50	16	721 540 210	2	0.455	721 540 235
2	63	16	721 540 211	2	0.730	721 540 236

G (inch)	z1 (mm)	z2 (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	s (mm)
3/8	9	10	35	43	19	24	19
1	11	10	43	50	24	26	24
1 1/4	11	10	51	55	26	29	29
1 1/2	12	10	58	61	29	33	36
2	14	12	72	71	33	39	45
2 1/4	15	14	83	79	34	46	54
2 3/4	15	18	100	95	39	58	63



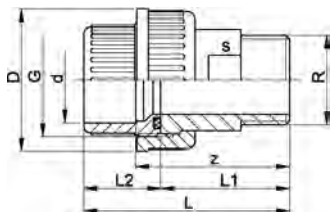
### Adaptor union PVC-U/stainless steel metric R

**Model:**

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

d (mm)	R (inch)	PN (bar)	EPDM Part No.	SP weight (kg)	FKM Part No.	SP weight (kg)
16	3/8	16	721 540 705	10	0.073	721 540 730
20	1/2	16	721 540 706	10	0.126	721 540 731
25	3/4	16	721 540 707	10	0.174	721 540 732

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

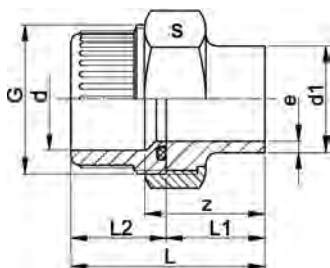
d (mm)	G (inch)	z (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	s (mm)
16	¾	40	35	54	30	24	19
20	1	44	43	60	34	26	24
25	1 ¼	46	51	65	36	29	32
32	1 ½	50	58	72	40	33	37
40	2	58	72	84	46	39	48
50	2 ¼	62	83	93	48	46	54
63	2 ¾	73	100	111	55	58	69



**Adaptor union PVC-U/stainless steel metric  
Welding end**

**Model:**

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



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

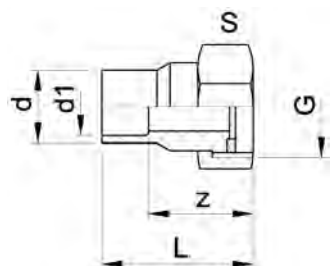
d (mm)	G (inch)	z (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	s (mm)
16	¾	28	42	18	24	1.6	32
20	1	32	48	22	26	2.0	41
25	1 ¼	33	52	23	29	2.0	46
32	1 ½	36	58	26	33	2.0	55
40	2	38	64	26	39	2.0	68
50	2 ¼	42	73	28	46	2.0	74
63	2 ¾	50	88	32	58	2.6	88



**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



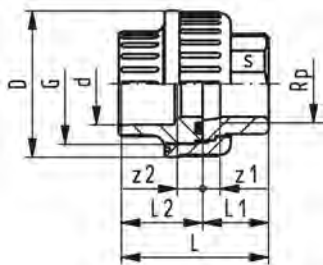
d (mm)	d1 (mm)	G (inch)	PN (bar)	Part No.	SP weight (kg)	z (mm)	L (mm)	s (mm)
16	12	½	16	<b>721 550 305</b>	10	0.031	22	34
20	16	¾	16	<b>721 550 306</b>	10	0.049	24	38
25	20	1	16	<b>721 550 307</b>	10	0.079	27	43

**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.	SP weight (kg)
20	½	16	<b>721 530 306</b>	10 0.073
25	¾	16	<b>721 530 307</b>	5 0.107
32	1	16	<b>721 530 308</b>	5 0.154
40	1 ¼	16	<b>721 530 309</b>	2 0.282
50	1 ½	16	<b>721 530 310</b>	2 0.377
63	2	16	<b>721 530 311</b>	10 0.594
75	2 ½	10	<b>721 530 312</b>	2 1.008
90	3	10	<b>721 530 313</b>	2 1.350

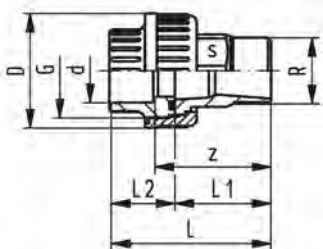
d (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	z1 (mm)	z2 (mm)	G (R/Rp BS Thread) (inch)	s (mm)
20	43	48	22	26	9	10	1	25
25	51	51	22	29	7	10	1 1/4	31
32	58	58	26	33	9	10	1 1/2	38
40	72	69	31	39	12	12	2	48
50	83	78	33	46	14	14	2 1/4	54
63	100	91	35	58	11	18	2 3/4	67
75	127	101	39	62	12	18	Tr 108x5	85
90	150	114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



**Adaptor union PVC-U/malleable iron galvanised metric R**

**Model:**

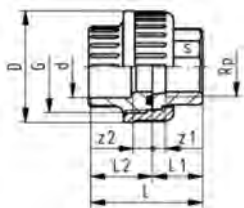
- Union nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: Malleable iron with taper male thread R
- Gasket: O-ring EPDM code no. 748 410 006-014; d90 748 410 248



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



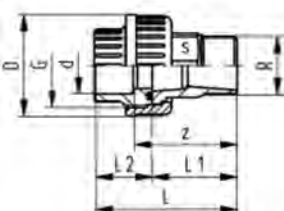
**Model:**

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

d	Rp	D	L	L1	L2	s	z1	z2	G (R/Rp BS Thread)
(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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**



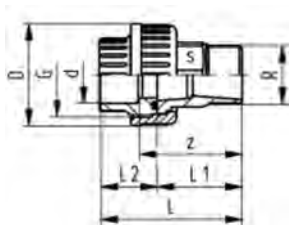
**Model:**

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

d	R	D	L	L1	L2	z	G (R/Rp BS Thread)	s
(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)	(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

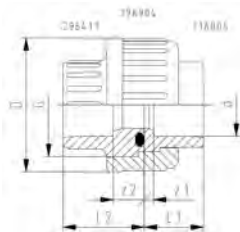
## Thread unions



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

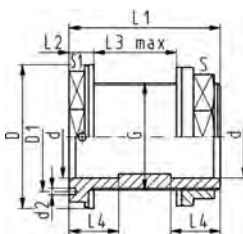
## Tank adaptors



### 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

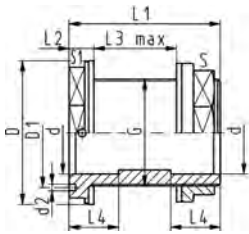


d	PN	EPDM Part No.	SP weight	
(mm)	(bar)		(kg)	
16	16	<b>161 050 445</b>	75	0.048
20	16	<b>161 050 446</b>	50	0.066
25	16	<b>161 050 447</b>	70	0.170
32	16	<b>161 050 448</b>	50	0.144
40	16	<b>161 050 449</b>	30	0.238
50	16	<b>161 050 450</b>	20	0.260
63	16	<b>161 050 451</b>	15	0.398

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	3/4
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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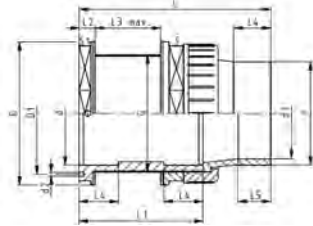
d (mm)	L3 max (mm)	Diameter of bore in tank side (mm)	D1 (mm)	S (mm)	D (mm)	L2 (mm)	S1 (mm)	L4 (mm)	L1 (mm)	d2 (mm)	G (inch)
32	28	49	49	56	69	13	65	22	67	5	1 ½
40	29	61	59	69	84	13	80	26	72	5	2
50	30	67	70	76	92	15	85	31	76	5	2 ¼
63	35	83	82	95	108	15	100	38	84	5	2 ¾



**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.	SP weight (kg)
16	12	16	161 050 345	1 0.068
20	16	16	161 050 346	1 0.102
25	20	16	161 050 347	1 0.157
32	25	16	161 050 348	1 0.220
40	32	16	161 050 349	1 0.353
50	40	16	161 050 350	1 0.438
63	50	16	161 050 351	1 0.680

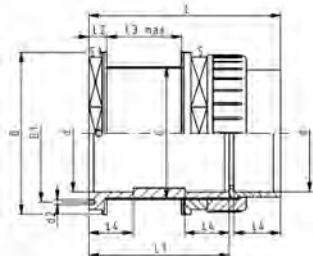
d (mm)	L (mm)	D (mm)	L1 (mm)	L5 (mm)	L4 (mm)	S1 (mm)	L2 (mm)	S (mm)	D1 (mm)	Diameter of bore in tank side (mm)	L3 max (mm)	G (inch)	d2 (mm)
16	96	44	58	12	14	40	11	32	29	28	19	¾	5
20	104	54	61	14	16	50	12	40	35	35	17	1	5
25	112	60	65	16	19	55	13	50	42	43	18	1 ¼	5
32	119	69	67	19	22	65	13	56	49	49	19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



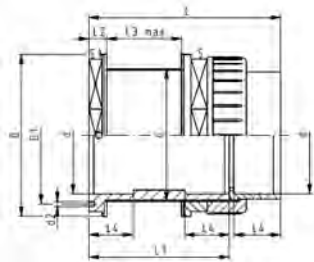
**Tank adaptor for fix position stop  
PVC-U, Union end with socket metric**

**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.	SP weight (kg)
16	16	161 050 245	1 0.064
20	16	161 050 246	1 0.070
25	16	161 050 247	1 0.100
32	16	161 050 248	1 0.196
40	16	161 050 249	1 0.328
50	16	161 050 250	1 0.395
63	16	161 050 251	1 0.530



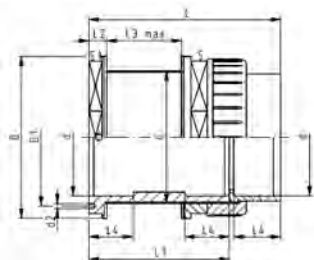
d (mm)	L (mm)	L2 (mm)	L1 (mm)	D (mm)	L3 max (mm)	Diameter of bore in tank side (mm)	S1 (mm)	L4 (mm)	d2 (mm)	D1 (mm)	S (mm)	G (inch)
16	77	11	58	44	19	28	40	14	5	29	32	¾
20	83	12	61	54	17	35	50	16	5	35	40	1
25	90	13	65	60	18	43	55	19	5	42	50	1 ¼
32	95	13	67	69	19	49	65	22	5	49	56	1 ½
40	104	13	72	84	16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



**Tank adaptor for 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.	SP weight (kg)
16	16	161 050 385	1 0.040
20	16	161 050 386	1 0.070
25	16	161 050 387	1 0.160
32	16	161 050 388	1 0.200
40	16	161 050 389	1 0.240
50	16	161 050 390	1 0.400
63	16	161 050 391	1 0.530

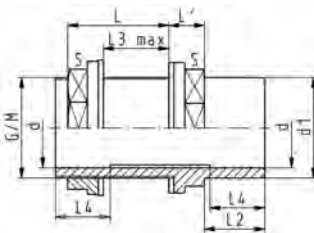
d (mm)	G (inch)	d2 (mm)	D1 (mm)	S (mm)	L3 max (mm)	Diameter of bore in tank side (mm)	S1 (mm)	L4 (mm)	L (mm)	L2 (mm)	L1 (mm)	D (mm)
16	¾	5	29	32	19	28	40	14	77	11	58	44
20	1	5	35	40	17	35	50	16	83	12	61	54
25	1 ¼	5	42	50	18	43	55	19	90	13	65	60
32	1 ½	5	49	56	19	49	65	22	95	13	67	69
40	2	5	59	69	16	61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



**Tank adaptor for adjustable stop  
PVC-U metric**

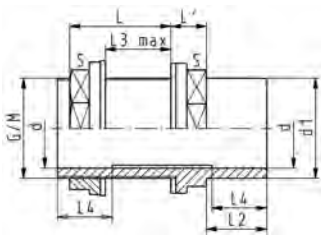
**Model:**

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



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

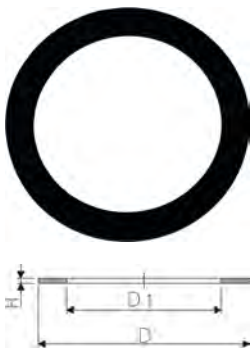
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d (mm)	L3 max (mm)	Diameter of bore in tank side (mm)	G (inch)	L1 (mm)	L2 (mm)	L (mm)	L4 (mm)	s (mm)	M
20	23	28	¾	13	19	42	16	32	
25	23	35	1	15	22	45	19	40	
32	24	43	1 ¼	17	26	49	22	50	
40	21	55	1 ¾	19	31	48	26	60	
50	21	61	2	21	38	52	31	69	
63	23	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 weight Part No. (kg)	FKM weight Part No. (kg)	D (mm)	D1 (mm)	H (mm)
¾	<b>748 400 005</b> 0.002	<b>749 400 005</b> 0.020	24	17	2
1	<b>748 400 006</b> 0.002	<b>749 400 006</b> 0.003	30	21	3
1 ¼	<b>748 400 007</b> 0.105	<b>749 400 007</b> 0.004	38	27	3
1 ½	<b>748 400 008</b> 0.002	<b>749 400 008</b> 0.002	44	32	3
2	<b>748 400 009</b> 0.007	<b>749 400 009</b> 0.003	55	42	3
2 ¼	<b>748 400 010</b> 0.004	<b>749 400 010</b> 0.007	62	46	3
2 ¾	<b>748 400 011</b> 0.005	<b>749 400 011</b> 0.006	78	60	3



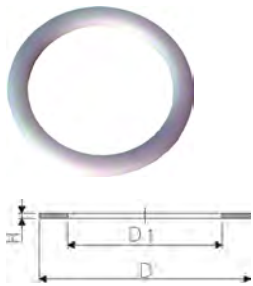
#### Backing nut PVC-U tank adaptor

**Model:**

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

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

### Washer PP for tank adaptor

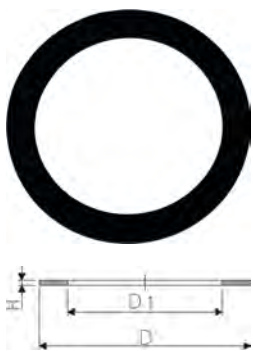


**Model:**

- Spare part for tank adaptor type 050

d (mm)	d (inch)	Part No.	SP weight (kg)	H (mm)	D1 (mm)	D (mm)	
3/4	3/4	<b>727 490 005</b>	0	0.002	3	27	39
1	1	<b>727 490 006</b>	0	0.002	3	34	47
1 1/4	1 1/4	<b>727 490 007</b>	0	0.010	3	43	58
1 1/2	1 1/2	<b>727 490 108</b>	0	0.004	4	49	65
1 3/4	1 3/4	<b>727 490 008</b>	0	0.024	4	55	72
2	2	<b>727 490 009</b>	0	0.028	4	61	79
2 1/4	2 1/4	<b>727 490 010</b>	0	0.007	4	67	86
2 1/2	2 1/2	<b>727 490 011</b>	10	0.008	4	77	95
2 3/4	2 3/4	<b>727 490 111</b>	0	0.013	4	83	106
3	3	<b>727 490 012</b>	0	0.013	5	90	112
M113	M113	<b>727 490 013</b>	0	0.021	5	115	139
M133	M133	<b>727 490 014</b>	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.	SP weight (kg)	FKM Part No.	SP weight (kg)	D (mm)	D1 (mm)	H (mm)		
¾	<b>748 400 007</b>	1	0.105	<b>749 400 007</b>	1	0.004	38	27	3
1	<b>748 400 042</b>	1	0.003	<b>749 400 042</b>	1	0.003	46	34	3
1 ¼	<b>748 400 009</b>	1	0.007	<b>749 400 009</b>	1	0.003	55	42	3
1 ½	<b>748 400 043</b>	0	0.005	<b>749 400 043</b>	1	0.009	69	49	3
2	<b>748 400 011</b>	1	0.005	<b>749 400 011</b>	1	0.006	78	60	3
2 ¼	<b>748 400 044</b>	1	0.008	<b>749 400 044</b>	1	0.009	90	64	3
2 ¾	<b>748 400 045</b>	1	0.011	<b>749 400 045</b>	1	0.011	106	82	3

## Union Ends



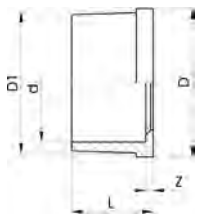
### Union Ends, PVC Metric Socket

**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.	SP weight (kg)	z (mm)	D (mm)	D1 (mm)	L (mm)	
10	16	<b>721 500 103</b>	10	0.004	3	20	18	15
12	16	<b>721 500 104</b>	10	0.003	3	20	18	15
16	16	<b>721 500 105</b>	10	0.003	3	24	22	17
20	16	<b>721 500 106</b>	10	0.008	3	30	28	19
25	16	<b>721 500 107</b>	10	0.014	3	39	36	22
32	16	<b>721 500 108</b>	10	0.020	3	45	42	25
40	16	<b>721 500 109</b>	10	0.037	3	57	53	29
50	16	<b>721 500 110</b>	10	0.039	3	63	59	34
63	16	<b>721 500 111</b>	10	0.072	3	78	74	41
75	10	<b>721 500 162</b>	20	0.140	3	101	90	47

table continued on the next page



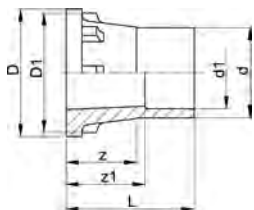
d (mm)	PN (bar)	Part No.	SP weight (kg)	z (mm)	D (mm)	D1 (mm)	L (mm)	
90	10	<b>721 500 163</b>	12	0.242	5	121	108	56
110	10	<b>721 500 164</b>	10	0.390	5	146	131	66
*	75	<b>721 600 112</b>	110	0.155	3	97	90	47
*	90	<b>721 600 113</b>	0	0.188	5	110	105	56



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



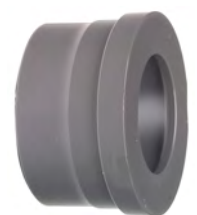
### Union end PVC-U metric

**Model:**

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



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



### Union end PVC-U Rp

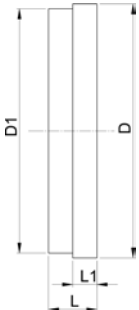
**Model:**

- Parallel female thread Rp



Rp (inch)	PN (bar)	Part No.	SP weight (kg)	z (mm)	D (mm)	D1 (mm)	L (mm)	
¼	10	<b>721 600 654</b>	970	0.004	5	20	18	15
⅜	10	<b>721 600 655</b>	0	0.005	6	24	22	17
½	10	<b>721 600 656</b>	1430	0.010	6	30	28	19
¾	10	<b>721 600 657</b>	1200	0.015	7	39	36	22
1	10	<b>721 600 658</b>	800	0.019	8	45	42	25
1 ¼	10	<b>721 600 659</b>	500	0.038	10	57	53	29
1 ½	10	<b>721 600 660</b>	300	0.057	11	63	59	34
2	10	<b>721 600 661</b>	170	0.102	18	78	74	41

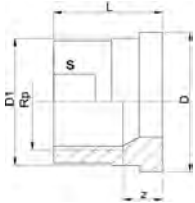
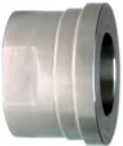
### Union end blank PVC-U



**Model:**

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

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

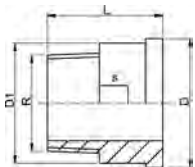


### Union end stainless steel Rp

**Model:**

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

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

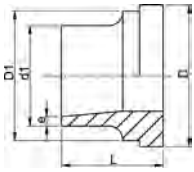


### Union end stainless steel R

**Model:**

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

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

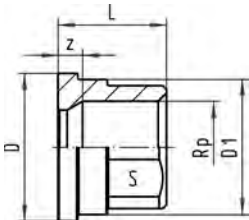


**Union end stainless steel**  
**Welding end**

**Model:**

- Material: Stainless Steel 1.4404 (316L)

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

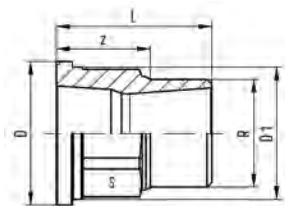


**Union end brass Rp**

**Model:**

- Union End: Brass with parallel female thread Rp

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



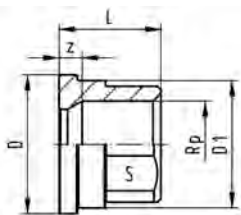
**Union end brass R**

**Model:**

- Union End: Brass with taper male thread R

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

**Union end malleable iron galvanized Rp**

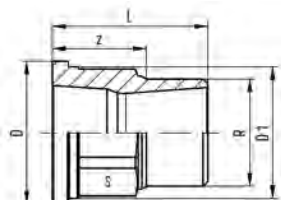


**Model:**

- Union End: malleable iron with parallel female thread Rp

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

**Union end malleable iron galvanized R**



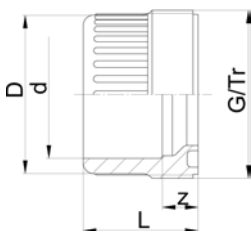
**Model:**

- Union End: Malleable iron with taper male thread R

R (inch)	d (mm)	Part No.	SP weight (kg)	D (mm)	L (mm)	D1 (mm)	z (mm)	s (mm)	
½	20	<b>724 600 806</b>	0	0.069	30	40	27	25	23
¾	25	<b>724 600 807</b>	1	0.115	39	43	36	27	30
1	32	<b>724 600 808</b>	0	0.161	44	48	41	29	36
1 ¼	40	<b>724 600 809</b>	0	0.294	56	57	52	36	48
1 ½	50	<b>724 600 810</b>	0	0.353	62	59	58	37	54
2	63	<b>724 600 811</b>	0	0.570	78	62	73	36	66
2 ½	75	<b>724 600 812</b>	0	0.980	100	75	92	45	85
3	90	<b>724 600 813</b>	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.	SP weight (kg)	z (mm)	D (mm)	L (mm)	G/Tr (inch)	
10	16	<b>721 840 103</b>	10	0.002	10	20	22	5/8
12	16	<b>721 840 104</b>	10	0.007	10	20	22	5/8
16	16	<b>721 840 105</b>	10	0.009	10	24	24	3/4
20	16	<b>721 840 106</b>	10	0.014	10	29	26	1
25	16	<b>721 840 107</b>	10	0.020	10	34	29	1 1/4
32	16	<b>721 840 108</b>	10	0.032	10	42	33	1 1/2
40	16	<b>721 840 109</b>	10	0.057	12	52	39	2
50	16	<b>721 840 110</b>	10	0.073	14	62	46	2 1/4
63	16	<b>721 840 111</b>	10	0.137	18	78	58	2 3/4
75	10	<b>721 840 112</b>	20	0.210	18	93	62	Tr108x5
90	10	<b>721 840 123</b>	12	0.355	18	110	69	Tr128x5
110	10	<b>721 840 114</b>	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.	SP weight (kg)	G (inch)	z (mm)	D (mm)	L (mm)
¼	10	<b>721 840 604</b>	10	0.007	⅝	12	22
⅜	10	<b>721 840 605</b>	10	0.009	¾	13	24
½	10	<b>721 840 606</b>	10	0.013	1	13	29
¾	10	<b>721 840 607</b>	10	0.026	1 ¼	14	34
1	10	<b>721 840 608</b>	10	0.036	1 ½	15	42
1 ¼	10	<b>721 840 609</b>	10	0.063	2	19	38
1 ½	10	<b>721 840 610</b>	10	0.098	2 ¼	26	45
2	10	<b>721 840 611</b>	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.	SP weight (kg)	G (inch)	z (mm)	s (mm)	L (mm)
16	½	20	<b>724 630 606</b>	0	0.058	1	12	25
16	¾	25	<b>724 630 607</b>	0	0.100	1 ¼	13	31
16	1	32	<b>724 630 608</b>	0	0.127	1 ½	14	28
16	1 ¼	40	<b>724 630 609</b>	0	0.204	2	14	47
16	1 ½	50	<b>724 630 610</b>	24	0.268	2 ¼	17	53
16	2	63	<b>724 630 611</b>	0	0.443	2 ¾	18	66
16	2 ½	75	<b>724 630 612</b>	0	0.679	3 ½	19	82
16	3	90	<b>724 630 613</b>	0	0.913	4	22	96

## Union Nuts

### Union Nuts, PVC

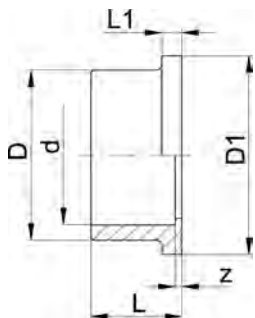
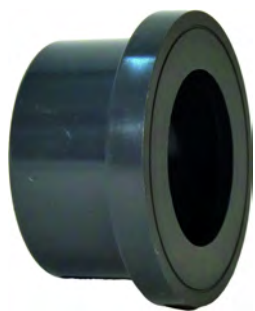
\* for Adaptor unions PVC-U / malleable iron only



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

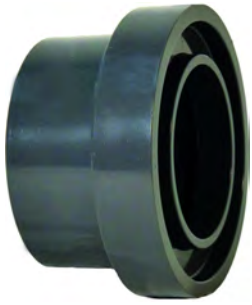
- Solvent cement socket metric
- d63 - d400: combined jointing face flat and serrated
- Gasket: profile flange gasket EPDM code no. 748 440 705-725, FKM code no. 749 440 705-725 or flat gasket EPDM code no. 748 440 705-725, only use O-ring EPDM code no. 748 410 000-174, FKM code no. 749 410 000-174 in 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!**

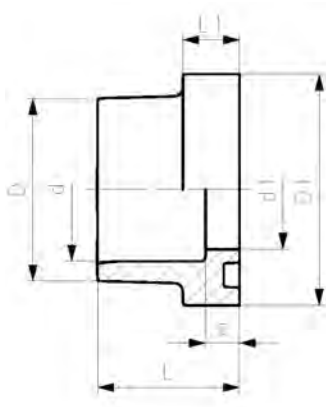
DN (mm)	d (inch)	d (mm)	PN (bar)	Part No.	SP	weight (kg)	D1 (mm)	z (mm)	L (mm)	D (mm)	L1 (mm)
10		16	16	<b>721 800 105</b>	10	0.006	29	3	17	22	6
15		20	16	<b>721 800 106</b>	10	0.009	34	3	19	27	6
20		25	16	<b>721 800 107</b>	10	0.015	41	3	22	33	7
25		32	16	<b>721 800 108</b>	10	0.024	50	3	25	41	7
32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



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

**Model:**

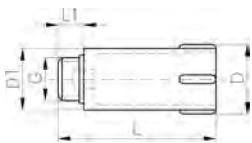
- Solvent cement socket metric
- Counterpart: flange adaptor flat code no. 721 800 105-721 790 111-125, combined flange adaptor (d160, d200, d225, d280, d315)
- Gasket: O-ring EPDM code no. 748 410 000-176, FKM code no. 749 410 000-176
- Flange: PVC-U code no. 721 700 005-138, PP/steel code no. 727 700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



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

**Accessories and special parts**

**Miscellaneous**



**Wall inlet plug PVC-U**

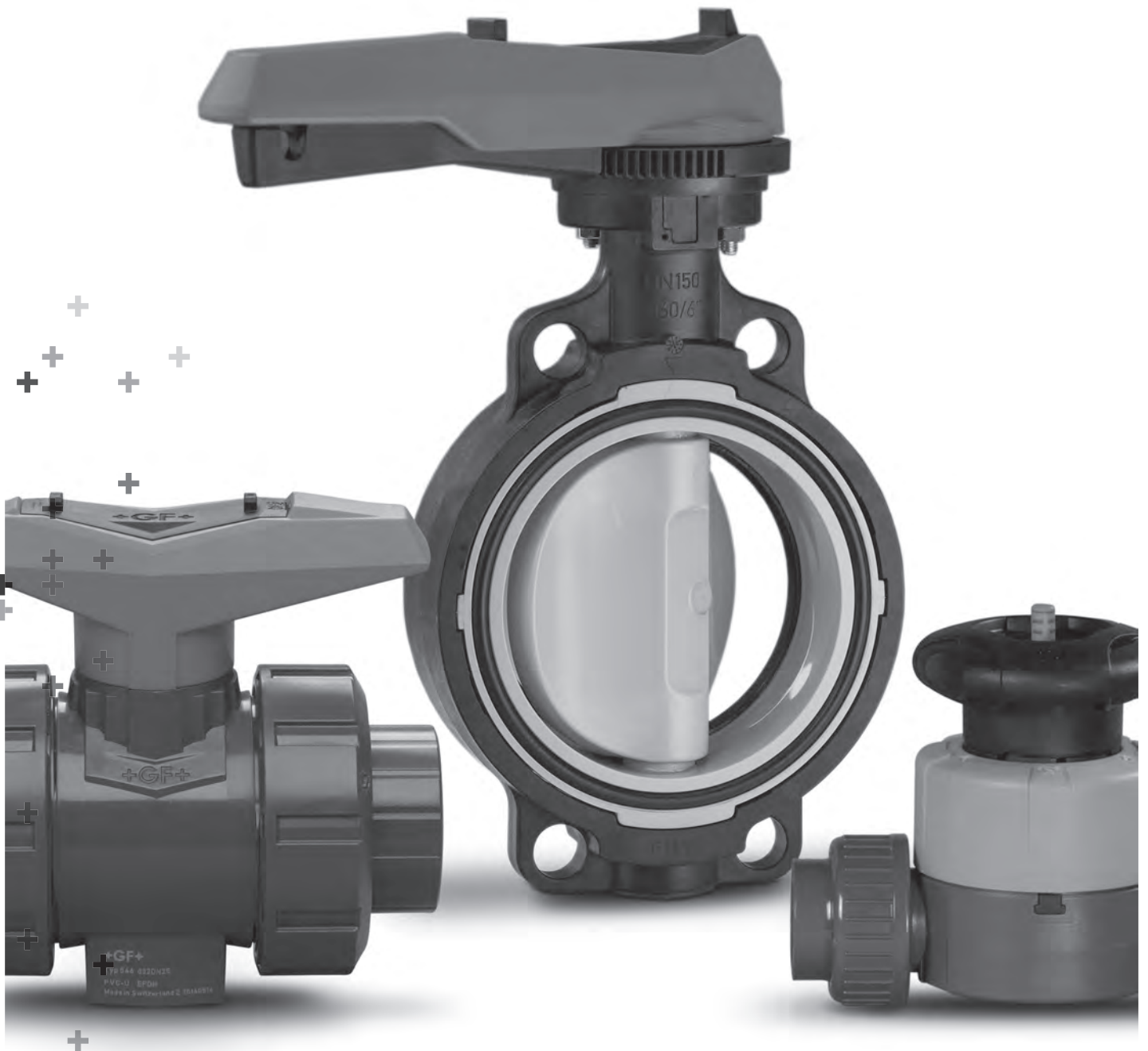
**Model:**

- 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.	SP weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	
½	<b>799 150 003</b>	10	0.044	39	32	87	11

## Section 9

# PVC and CPVC Valves



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# Ball Valves



DN10/15 - 50



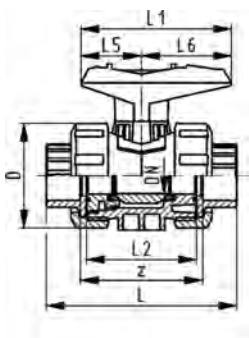
**Type 546 PVC Ball Valve**  
**With mounting inserts**  
**With solvent cement sockets inch ASTM**  
**Including 2 threaded valve ends NPT**

**Model:**

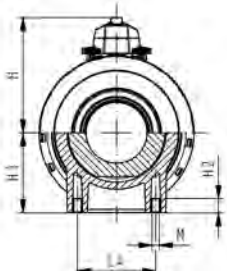
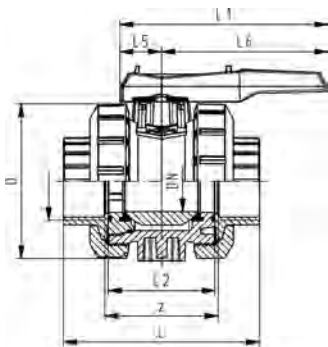
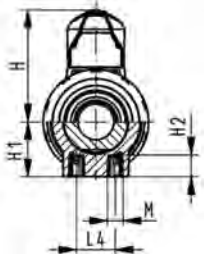
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Threaded valve ends are only enclosed for DN10/15-50
- Valve end and union nut are **not compatible** with Type 346 (DN10/15-50) and Type 370 (DN65-100)

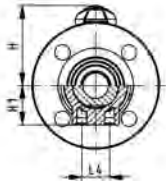
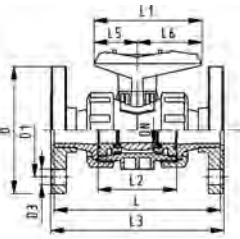
**Option:**

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



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



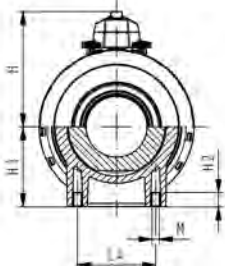
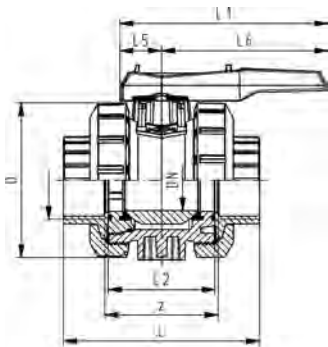
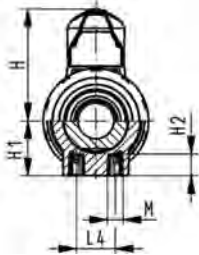
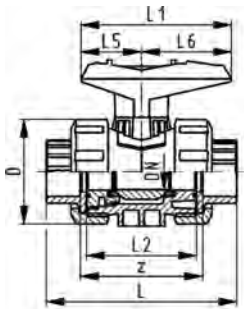


**Type 546 True Union Ball Valve-CPVC  
ANSI Flanged**

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



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



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

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



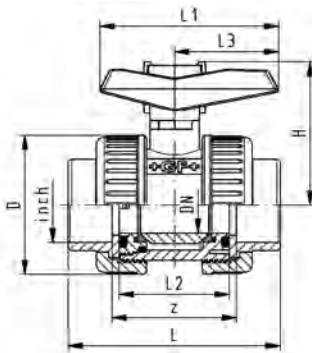
**Type 375 True Union Ball Valve PVC  
Solvent cement socket/Threaded NPT**

**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.

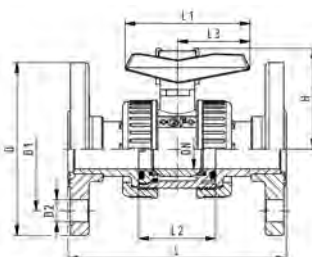


Size (inch)	EPDM Part No.	FKM Part No.
¾	161 375 001	161 375 016
½	161 375 002	161 375 017
¾	161 375 003	161 375 018
1	161 375 004	161 375 019
1 ¼	161 375 005	161 375 020
1 ½	161 375 006	161 375 021
2	161 375 007	161 375 022
2 ½	161 375 008	161 375 023
3	161 375 009	161 375 024
4	161 375 010	161 375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



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

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





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

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



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

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



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

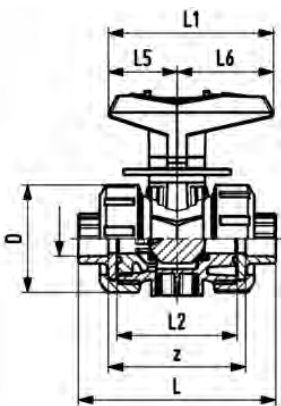
**Model:**

- 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.	FKM Part No.
¾	161 523 521	161 523 531
½	161 523 522	161 523 532





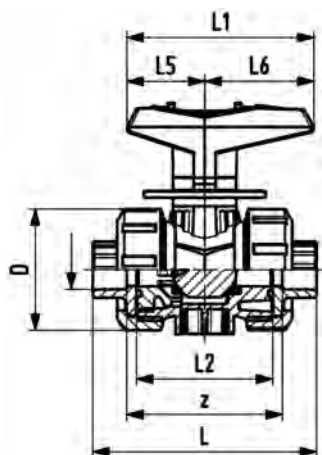
**Type 523 Metering Ball Valve CPVC**  
**With mounting inserts**  
**With solvent cement sockets inch ASTM**  
**Including 2 threaded valve ends NPT**

**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	DN	PN	Cv-value	EPDM	SP weight	FKM	SP weight
(inch)	(mm)	(bar)	(l/min)	Part No.	(kg)	Part No.	(kg)
3/8	10	10	11	163 523 521	1 0.170	163 523 531	1 0.170
1/2	10	10	20	163 523 522	1 0.174	163 523 532	1 0.170

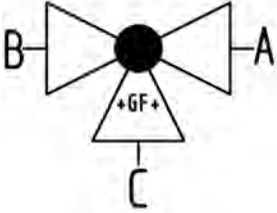
Size	D	H	H1	H2	L	L1	L2	L4	L5	L6	M	z
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
3/8	50	68	27	12	105	77	56	25	32	45	6	67
1/2	50	68	27	12	105	77	56	25	32	45	6	61



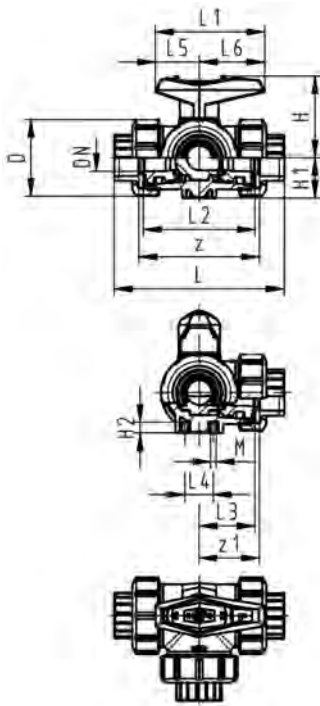
**Type 543 PVC 3-Way Ball Valve**  
**Horizontal/L-port**  
**With solvent cement sockets ASTM**

**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 Part No.	FKM Part No.
3/8	161 543 081	161 543 091
1/2	161 543 082	161 543 092
3/4	161 543 083	161 543 093
1	161 543 084	161 543 094
1 1/4	161 543 085	161 543 095
1 1/2	161 543 086	161 543 096
2	161 543 087	161 543 097

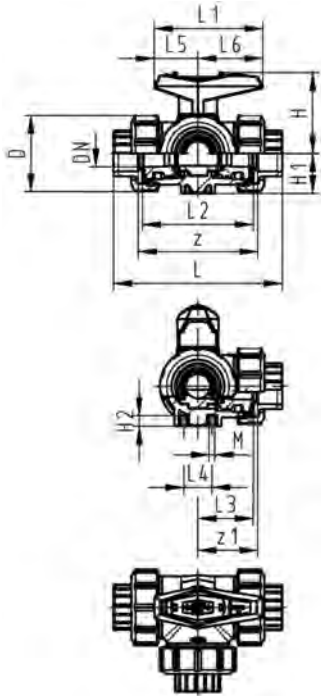




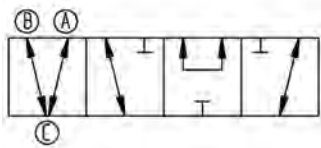
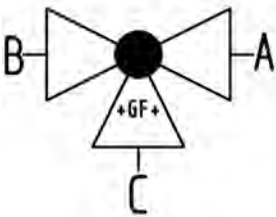
**Type 543 PVC 3-Way Ball Valve**  
**Horizontal/T-port**  
**With solvent cement sockets ASTM**

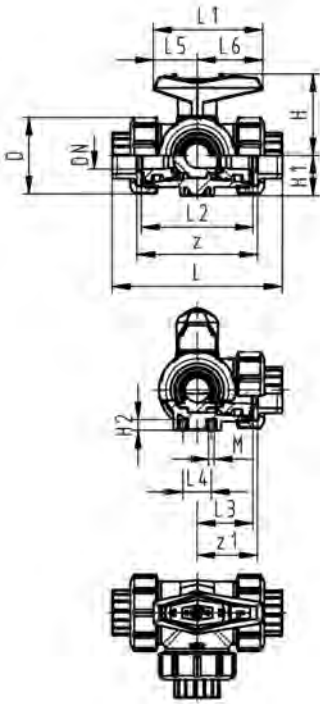
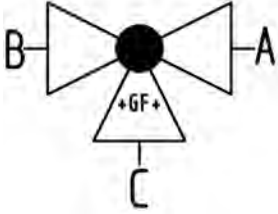
**Model:**

- 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.	FKM Part No.
3/8	161 543 281	161 543 291
1/2	161 543 282	161 543 292
3/4	161 543 283	161 543 293
1	161 543 284	161 543 294
1 1/4	161 543 285	161 543 295
1 1/2	161 543 286	161 543 296
2	161 543 287	161 543 297





**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

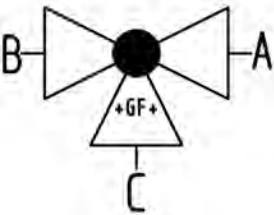
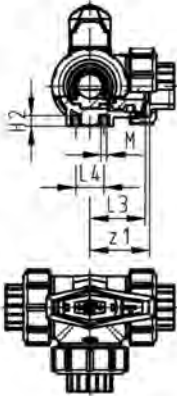
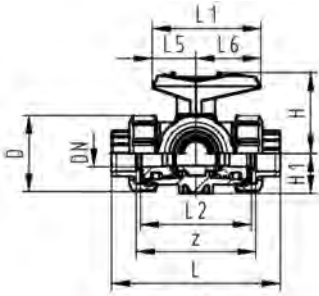
Size (inch)	EPDM Part No.	FKM Part No.
3/8	163 543 081	163 543 091
1/2	163 543 082	163 543 092
3/4	163 543 083	163 543 093
1	163 543 084	163 543 094
1 1/4	163 543 085	163 543 095
1 1/2	163 543 086	163 543 096
2	163 543 087	163 543 097

**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.	FKM Part No.
3/8	163 543 281	163 543 291
1/2	163 543 282	163 543 292
3/4	163 543 283	163 543 293
1	163 543 284	163 543 294
1 1/4	163 543 285	163 543 295
1 1/2	163 543 286	163 543 296
2	163 543 287	163 543 297

# Check Valves & Line Strainer



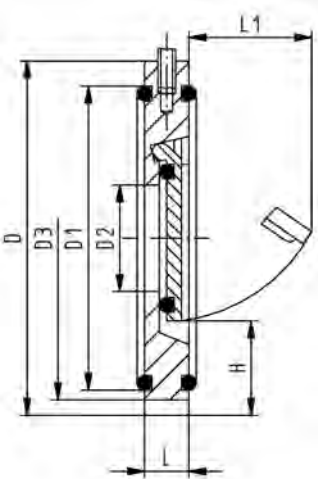
## Type 369 Wafer Check Valve PVC Without spring

### 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)

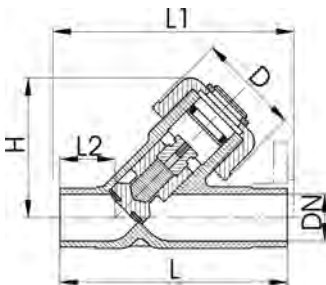


d	Size	EPDM	FKM
(mm)	(inch)	Part No.	Part No.
40	1 1/4	161 369 002	161 369 022
50	1 1/2	161 369 003	161 369 023
63	2	161 369 004	161 369 024
75	2 1/2	161 369 005	161 369 025
90	3	161 369 006	161 369 026
110	4	161 369 007	161 369 027
140	5	161 369 009	161 369 029
160	6	161 369 010	161 369 030
225	8	161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



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

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





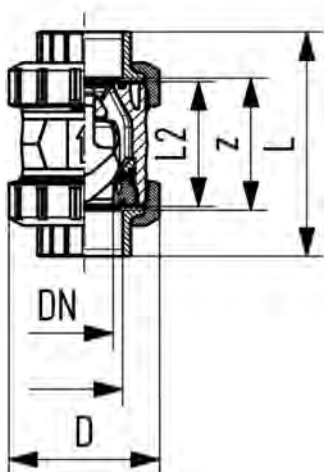


**Type 306 Translucent Line Strainer PVC**  
**Transparent body with solvent cement spigots ASTM/ANSI**

**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.	FKM Part No.
1/2	192 306 300	192 306 349
3/4	192 306 350	192 306 399
1	192 306 400	192 306 449
1 1/4	192 306 450	192 306 499
1 1/2	192 306 500	192 306 549
2	192 306 550	192 306 599
3	192 306 650	192 306 699



**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

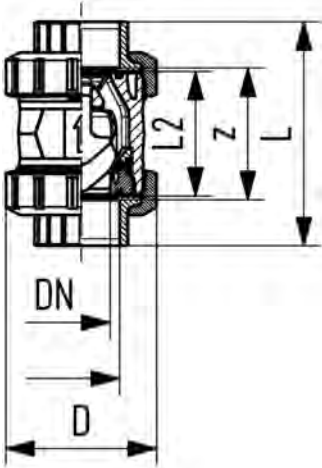
NPT (inch)	EPDM Part No.	FKM Part No.
3/8	161 561 101	161 561 111
1/2	161 561 102	161 561 112
3/4	161 561 103	161 561 113
1	161 561 104	161 561 114
1 1/4	161 561 105	161 561 115
1 1/2	161 561 106	161 561 116
2	161 561 107	161 561 117
2 1/2	161 561 108	^ 161 561 118
3	161 561 109	^ 161 561 119
4	161 561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



**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 1m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546



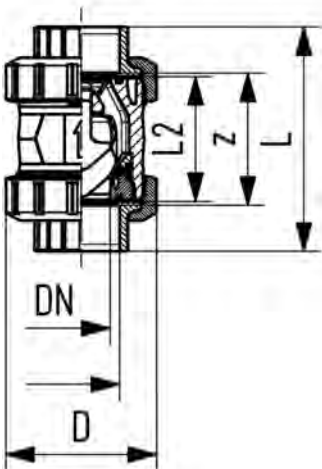
NPT (inch)	EPDM Part No.	FKM Part No.
3/8	161 562 101	161 562 111
1/2	161 562 102	161 562 112
3/4	161 562 103	161 562 113
1	161 562 104	161 562 114
1 1/4	161 562 105	161 562 115
1 1/2	161 562 106	161 562 116
2	161 562 107	161 562 117
2 1/2	161 562 108	^ 161 562 118
3	161 562 109	^ 161 562 119
4	161 562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



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

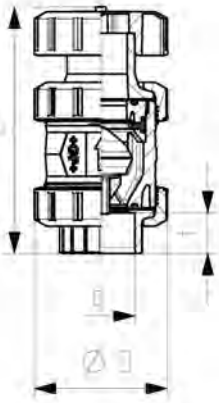
**Model:**

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

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

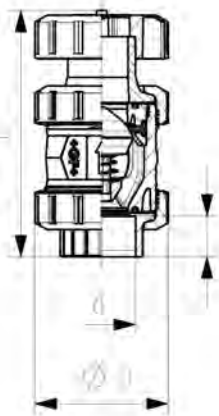


**Model:**

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

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

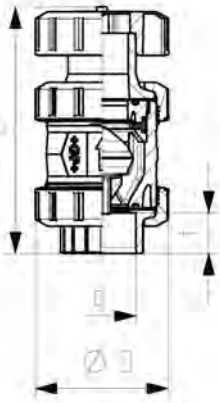


**Model:**

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

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

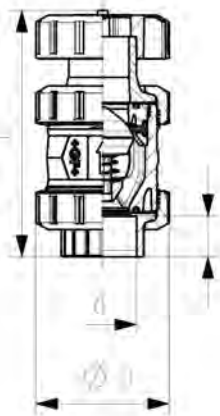


**Model:**

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

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

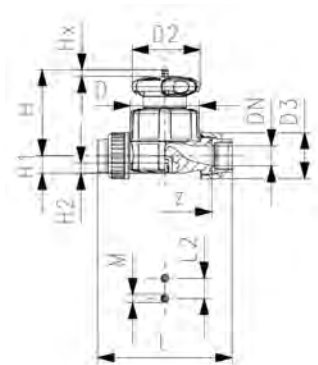


**Model:**

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

# Diaphragm Valves



## Type 514 Diaphragm Valve PVC With solvent cement sockets ASTM

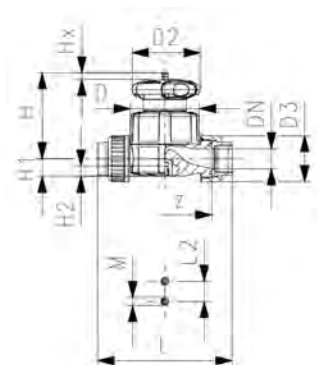
### Model:

- 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.	PTFE/EPDM Part No.	H1 (mm)	H2 (mm)
½	161 514 612	161 514 632	14	12
¾	161 514 613	161 514 633	18	12
1	161 514 614	161 514 634	22	12
1 ¼	161 514 615	161 514 635	26	15
1 ½	161 514 616	161 514 636	32	15
2	161 514 617	161 514 637	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.	FKM Part No.	PTFE/EPDM Part No.
½	163 514 612	163 514 662	163 514 632
¾	163 514 613	163 514 663	163 514 633
1	163 514 614	163 514 664	163 514 634
1 ¼	163 514 615	163 514 665	163 514 635
1 ½	163 514 616	163 514 666	163 514 636
2	163 514 617	163 514 667	163 514 637



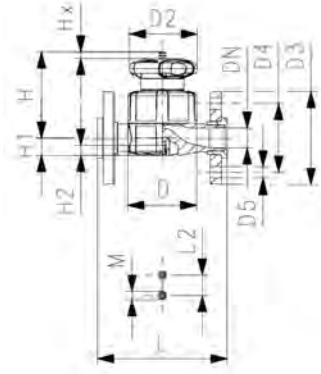
**Type 517 Diaphragm Valve PVC  
ANSI Flanged**

**Model:**

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

**Option:**

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



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



**Type 317 Diaphragm Valve PVC  
PVC Flanged**

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



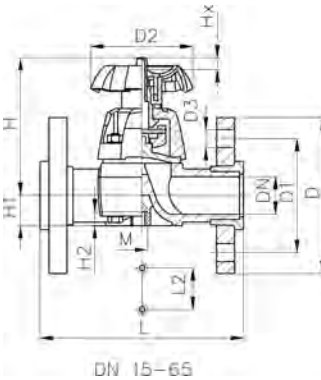
**Type 317 Diaphragm Valve CPVC  
Flanged**

**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)



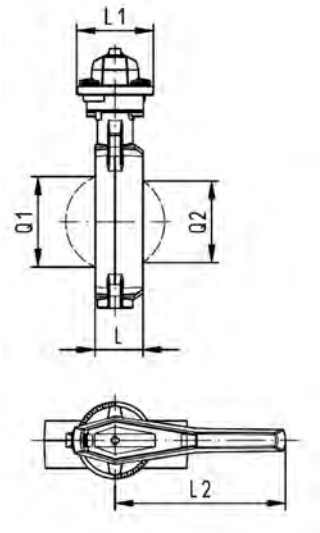
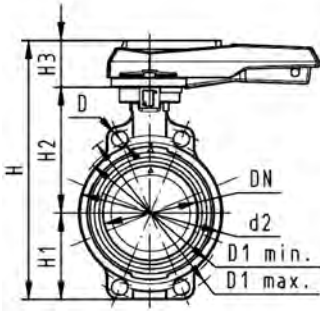
Size (inch)	EPDM Part No.	FKM Part No.	PTFE with EPDM supp. diaphragm Part No.
2 ½	* 163 317 623	* 163 317 668	* 163 317 638
3	* 163 317 024	* 163 317 069	
4	* 163 317 325	* 163 317 370	* 163 317 340

# Butterfly Valves



**Type 567 Butterfly Valve PVC**  
Hand lever with ratchet settings

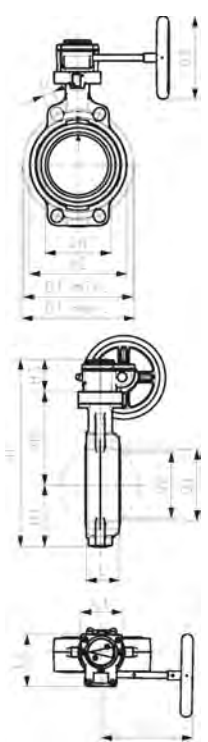
d (mm)	EPDM Part No.	FKM Part No.	D3 (mm)	L3 (mm)
63	161 567 002	161 567 022	160	179
75	161 567 003	161 567 023	160	179
90	161 567 004	161 567 024	160	179
110	161 567 005	161 567 025	160	179
140	161 567 006	161 567 026	160	179
160	161 567 007	161 567 027	160	179
225	161 567 008	161 567 028	160	179
280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



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



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

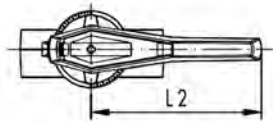
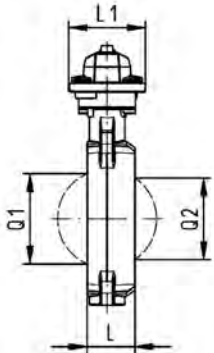
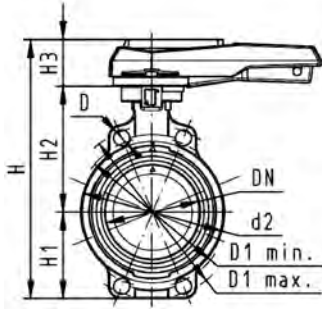




**Type 567 Butterfly Valve CPVC**  
**Hand lever with ratchet settings**



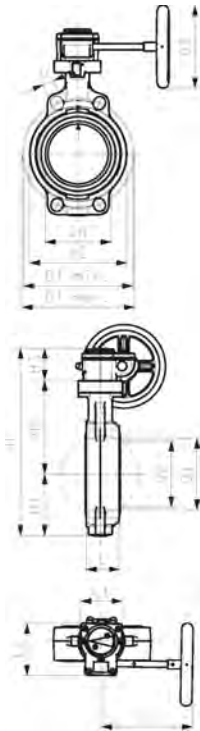
d (mm)	EPDM Part No.	FKM Part No.
63	163 567 002	163 567 022
75	163 567 003	163 567 023
90	163 567 004	163 567 024
110	163 567 005	163 567 025
140	163 567 006	163 567 026
160	163 567 007	163 567 027
225	163 567 008	163 567 028
280	163 567 009	163 567 029
315	163 567 010	163 567 030



**Type 567 Butterfly Valve CPVC**  
**Reduction gear with handwheel**



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



**Type 578 Lugstyle Butterfly Valve PVC**  
**Hand lever with ratchet settings**

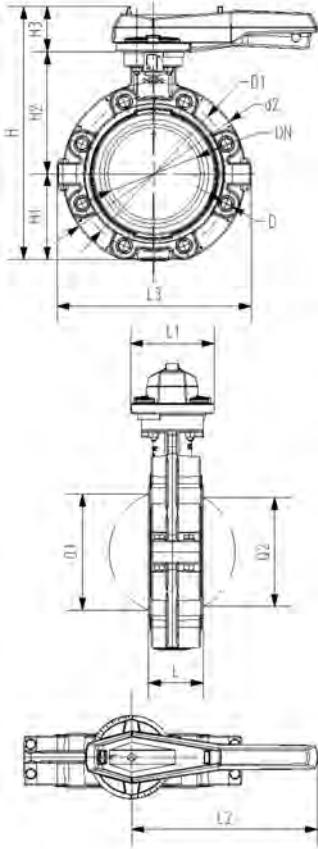


**Model:**

- 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.	SP weight (kg)	FKM Part No.	SP weight (kg)
2	50	10	1470	<b>161 578 102</b>	1 1.800	<b>161 578 122</b>	1 1.800
2 ½	65	10	2200	<b>161 578 103</b>	1 1.895	<b>161 578 123</b>	1 1.895
3	80	10	3000	<b>161 578 104</b>	1 2.251	<b>161 578 124</b>	1 2.251
4	100	10	6500	<b>161 578 105</b>	1 3.146	<b>161 578 125</b>	1 3.146
5	125	10	11500	<b>161 578 106</b>	1 4.660	<b>161 578 126</b>	1 4.660
6	150	10	16600	<b>161 578 107</b>	1 6.430	<b>161 578 127</b>	1 6.430
8	200	10	39600	<b>161 578 108</b>	1 8.625	<b>161 578 128</b>	1 8.625
10	250	10	55200	<b>161 578 109</b>	1 19.528	<b>161 578 129</b>	1 19.528
12	300	10	80000	<b>161 578 110</b>	1 26.106	<b>161 578 130</b>	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**

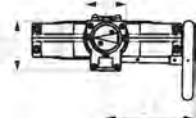
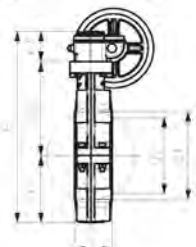
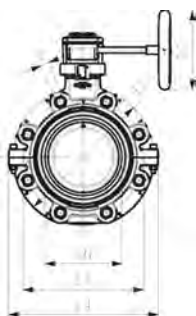


**Model:**

- 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.	SP weight (kg)	FKM Part No.	SP weight (kg)
2	50	10	1470	<b>161 578 142</b>	1 3.522	<b>161 578 162</b>	1 3.522
2 ½	65	10	2200	<b>161 578 143</b>	1 3.672	<b>161 578 163</b>	1 3.672
3	80	10	3000	<b>161 578 144</b>	1 3.929	<b>161 578 164</b>	1 3.929
4	100	10	6500	<b>161 578 145</b>	1 4.834	<b>161 578 165</b>	1 4.834
5	125	10	11500	<b>161 578 146</b>	1 6.348	<b>161 578 166</b>	1 6.348
6	150	10	16600	<b>161 578 147</b>	1 8.109	<b>161 578 167</b>	1 8.109
8	200	10	39600	<b>161 578 148</b>	1 9.353	<b>161 578 168</b>	1 9.353
10	250	10	55200	<b>161 578 149</b>	1 21.210	<b>161 578 169</b>	1 21.210
12	300	10	80000	<b>161 578 150</b>	1 27.746	<b>161 578 170</b>	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**

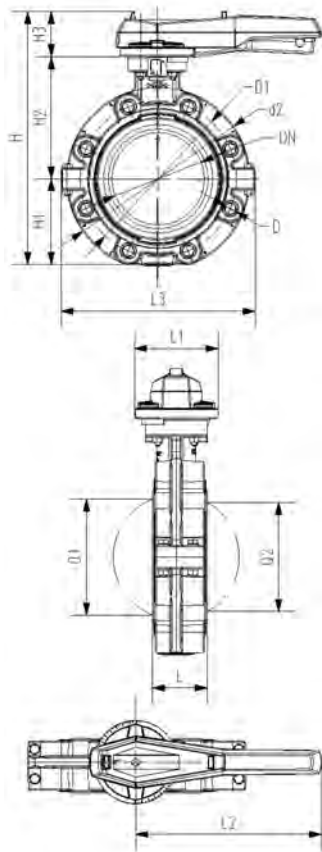


**Model:**

- 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	SP	weight	FKM	SP
(mm)	(inch)	(mm)	(bar)	(l/min)	Part No.		(kg)	Part No.	weight
63	2	50	10	1470	<b>163 578 102</b>	1	1.800	<b>163 578 122</b>	1 1.800
75	2 ½	65	10	2200	<b>163 578 103</b>	1	1.895	<b>163 578 123</b>	1 1.895
90	3	80	10	3000	<b>163 578 104</b>	1	2.251	<b>163 578 124</b>	1 2.251
110	4	100	10	6500	<b>163 578 105</b>	1	3.146	<b>163 578 125</b>	1 3.146
140	5	125	10	11500	<b>163 578 106</b>	1	4.660	<b>163 578 126</b>	1 4.660
160	6	150	10	16600	<b>163 578 107</b>	1	6.430	<b>163 578 127</b>	1 6.430
225	8	200	10	39600	<b>163 578 108</b>	1	8.625	<b>163 578 128</b>	1 8.625
280	10	250	10	55200	<b>163 578 109</b>	1	19.528	<b>163 578 129</b>	1 19.528
315	12	300	10	80000	<b>163 578 110</b>	1	26.106	<b>163 578 130</b>	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)	(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**

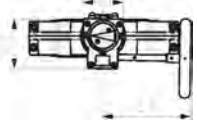
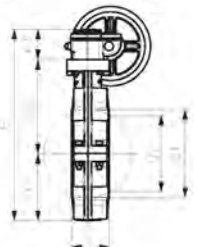
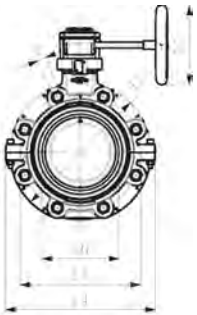


**Model:**

- 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	SP	weight	FKM	SP	
(mm)	(inch)	(mm)	(bar)	(l/min)	Part No.		(kg)	Part No.	weight	
									(kg)	
63	2	50	10	1470	<b>163 578 142</b>	1	3.535	<b>163 578 162</b>	1	3.535
75	2 ½	65	10	2200	<b>163 578 143</b>	1	3.698	<b>163 578 163</b>	1	3.698
90	3	80	10	3000	<b>163 578 144</b>	1	3.929	<b>163 578 164</b>	1	3.929
110	4	100	10	6500	<b>163 578 145</b>	1	4.834	<b>163 578 165</b>	1	4.834
140	5	125	10	11500	<b>163 578 146</b>	1	6.348	<b>163 578 166</b>	1	6.348
160	6	150	10	16600	<b>163 578 147</b>	1	8.109	<b>163 578 167</b>	1	8.109
225	8	200	10	39600	<b>163 578 148</b>	1	9.353	<b>163 578 168</b>	1	9.353
280	10	250	10	55200	<b>163 578 149</b>	1	21.210	<b>163 578 169</b>	1	21.210
315	12	300	10	80000	<b>163 578 150</b>	1	27.746	<b>163 578 170</b>	1	27.746

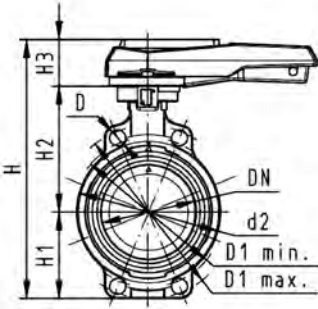
d2	D	D1	D3	H	H1	H2	H3	L	L1	L2	L3	L4	Q1	Q2
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
160	UNC 5/8	120.6	160	273	77	134	62	45	78	112	179	165	40	
180	UNC 5/8	139.7	160	285	83	140	62	46	78	112	179	182	54	35
195	UNC 5/8	152.4	160	297	89	146	62	49	78	112	179	210	67	50
226	UNC 5/8	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



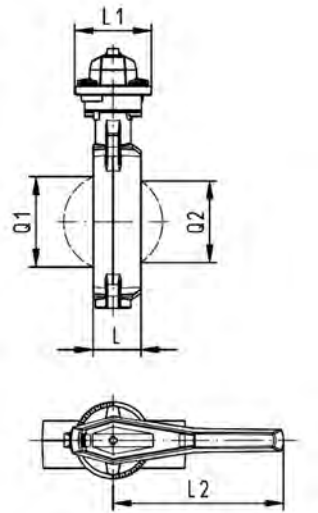
**Type 563 Aqua Butterfly Valve PVC**  
**Hand lever with ratchet settings**

**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.
63	2	<b>161 563 002</b>
75	2 ½	<b>161 563 003</b>
90	3	<b>161 563 004</b>
110	4	<b>161 563 005</b>
140	5	<b>161 563 006</b>
160	6	<b>161 563 007</b>
225	8	<b>161 563 008</b>
280	10	<b>161 563 009</b>
315	12	<b>161 563 010</b>



# General Terms and Conditions of Sale

Always check for the most current General Terms and Conditions and Warranty Statement at [www.gfpiping.com](http://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, DOWNTIME, 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:

- Pipe \$7,500 net or greater in one of the following categories:
  - a. PPro-Seal
  - b. Contain-It
  - c. Fuseal (1½"–6")
  - d. SYGEF
  - e. PROGEF
  - f. PVC and CPVC, including shapes and rods
  - g. PVC and CPVC, metric
  - h. Duct
  - i. CTS
  - j. LXT
  - k. Blazemaster
  - l. PE 100
  - m. COOL-FIT ABS
  - 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.

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



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

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## www.gfps.com

The technical data is not binding. They neither constitute expressly warranted characteristics nor guaranteed properties nor a guaranteed durability. They are subject to modification. Our General Terms of Sale apply.

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