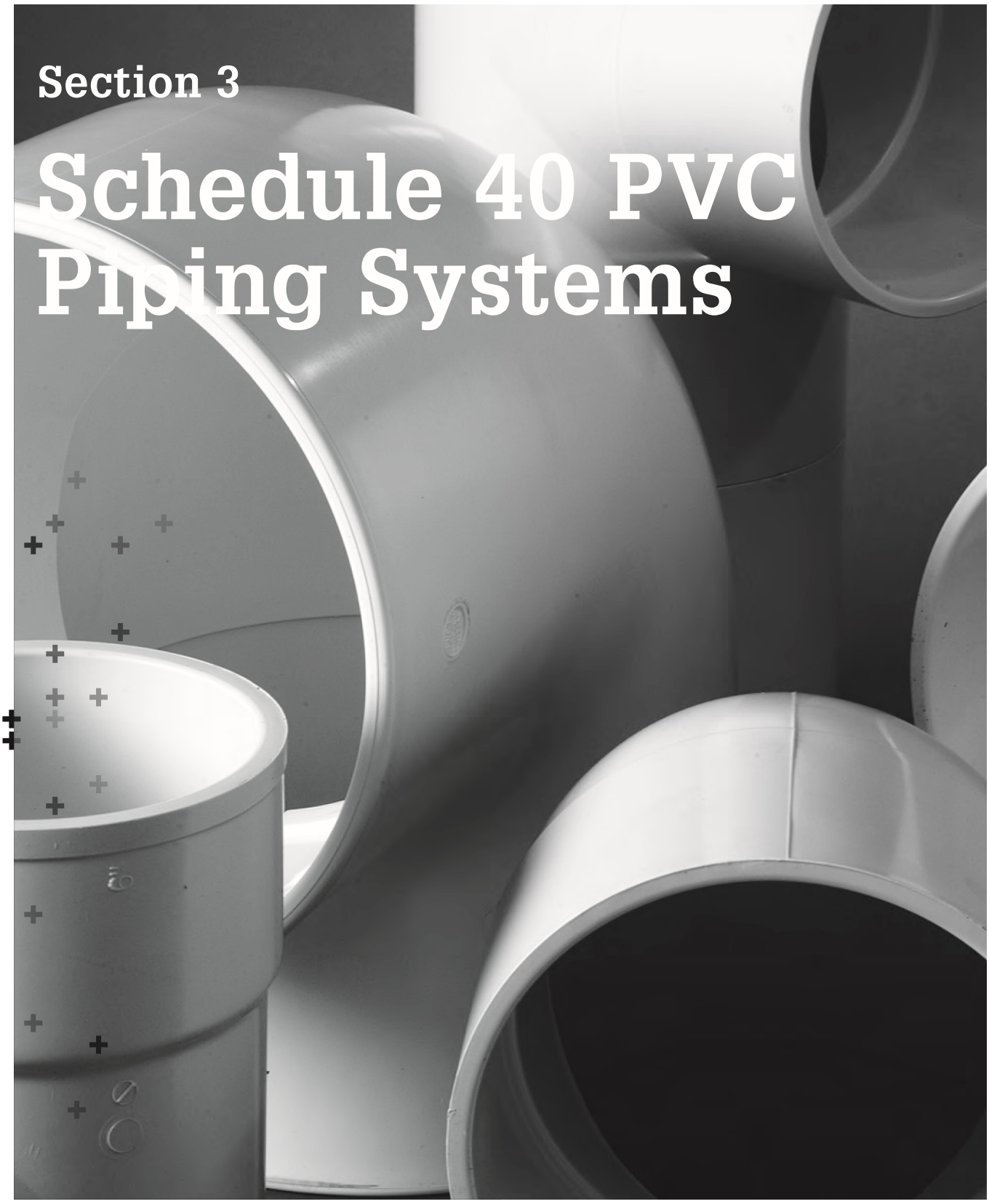
Section 3

Schedule 40 PVC Piping Systems



Glossary

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

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

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

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

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	Harvel® Industrial PLUS PVC Pressure Pipe	85
	Harvel®Schedule 40 PVC Pressure Pipe - Gray	87
	Schedule 40 PVC Pressure Fittings	89

Specifications and Standards

Specifications and Standards

NSF/ANSI Standard 14

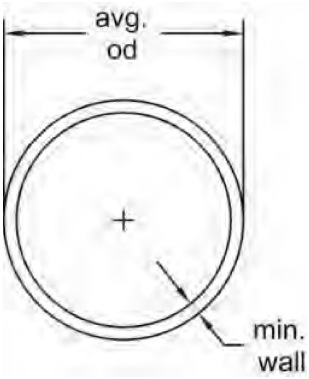
NSF/ANSI Standard 61

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

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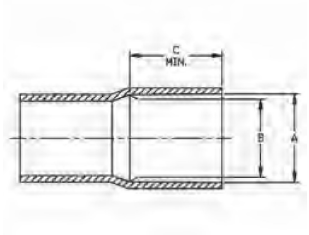
Plain End Pipe - 20 ft lengths

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

Size (inch)	P/L	Plain End Part No.	USD
½	H17	* H0400050PW2000	
¾	H17	* H0400075PW2000	
1	H17	* H0400100PW2000	
1 ¼	H17	* H0400125PW2000	
1 ½	H17	* H0400150PW2000	
2	H17	* H0400200PW2000	
2 ½	H17	* H0400250PW2000	
3	H17	* H0400300PW2000	
4	H17	* H0400400PW2000	
6	H17	* H0400600PW2000	
8	H17	* H0400800PW2000	
10	H17	* H0401000PW2000	
12	H17	* H0401200PW2000	

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

*

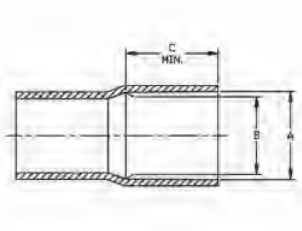


Belled End Pipe - 20 ft lengths

Size (inch)	P/L	Belled End Part No.	USD
½	H17	* H0400050PW200B	
¾	H17	* H0400075PW200B	
1	H17	* H0400100PW200B	
1 ¼	H17	* H0400125PW200B	
1 ½	H17	* H0400150PW200B	
2	H17	* H0400200PW200B	
2 ½	H17	* H0400250PW200B	
3	H17	* H0400300PW200B	
4	H17	* H0400400PW200B	
6	H17	* H0400600PW200B	
8	H17	* H0400800PW200B	
10	H17	* H0401000PW200B	
12	H17	* H0401200PW200B	

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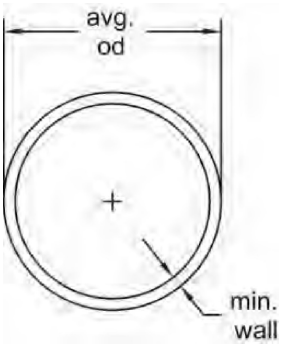
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A-Socket Entrance (Belled Pipe)	B-Socket Bottom (Belled Pipe)	C-Min. (Belled Pipe)
0.848±0.004	0.836±0.004	1.000
1.058±0.004	1.046±0.004	1.250
1.325±0.005	1.310±0.005	1.500
1.670±0.005	1.655±0.005	1.750
1.912±0.006	1.894±0.006	2.000
2.387±0.006	2.363±0.006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

Harvel® Industrial PLUS PVC Pressure Pipe

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Plain End Pipe - 20 ft lengths

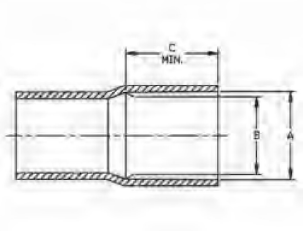
- Max Water Pressure at 73°F (22.7°C) with solvent-cemented joints
- Meets NSF®-pw-G
- Meets CAN/CSA B137.3 Requirements

Size (inch)	P/L	Plain End Part No.	USD
½	H51	* HX400050PW2000	
¾	H51	* HX400075PW2000	
1	H51	* HX400100PW2000	
1 ¼	H51	* HX400125PW2000	
1 ½	H51	* HX400150PW2000	
2	H51	* HX400200PW2000	
2 ½	H51	* HX400250PW2000	
3	H51	* HX400300PW2000	
3 ½	H51	* H0400350PW2000	
4	H51	* HX400400PW2000	
5	H51	* H0400500PW2000	
6	H51	* HX400600PW2000	
8	H51	* HX400800PW2000	
10	H51	* HX401000PW2000	
12	H51	* HX401200PW2000	
14	H51	* H0401400PW2000	
16	H51	* H0401600PW2000	
18	H51	* H0401800PW2000	
20	H51	* H0402000PW2000	
24	H51	* H0402400PW2000	

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

*

Belled End Pipe - 20 ft lengths

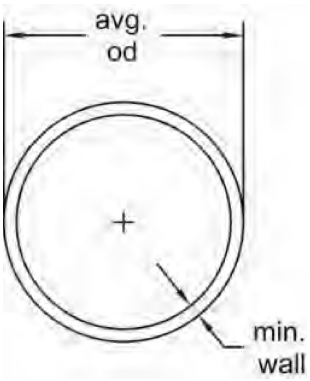


Size (inch)	P/L	Belled End Part No.	USD
½	H51	* HX400050PW200B	
¾	H51	* HX400075PW200B	
1	H51	* HX400100PW200B	
1 ¼	H51	* HX400125PW200B	
1 ½	H51	* HX400150PW200B	
2	H51	* HX400200PW200B	
2 ½	H51	* HX400250PW200B	
3	H51	* HX400300PW200B	
3 ½	H51	* H0400350PW200B	
4	H51	* HX400400PW200B	
5	H51	* H0400500PW200B	
6	H51	* HX400600PW200B	
8	H51	* HX400800PW200B	
10	H51	* HX401000PW200B	
12	H51	* HX401200PW200B	
14	H51	* H0401400PW200B	
16	H51	* H0401600PW200B	
18	H51	* H0401800PW200B	
20	H51	* H0402000PW200B	
24	H51	* H0402400PW200B	

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

Harvel® Schedule 40 PVC Pressure Pipe - Gray

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Plain End Pipe - 20 ft lengths

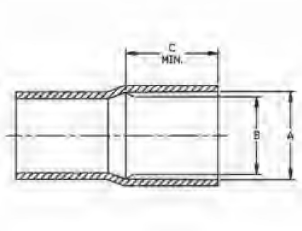
- Max Water Pressure at 73°F (22.7°C) with solvent-cemented joints

Size (inch)	P/L	Plain End Part No.	USD
⅛	H16	* H0400013PG2000	
¼	H16	* H0400025PG2000	
⅜	H16	* H0400038PG2000	
½	H16	* H0400050PG2000	
¾	H16	* H0400075PG2000	
1	H16	* H0400100PG2000	
1 ¼	H16	* H0400125PG2000	
1 ½	H16	* H0400150PG2000	
2	H16	* H0400200PG2000	
2 ½	H16	* H0400250PG2000	
3	H16	* H0400300PG2000	
3 ½	H16	* H0400350PG2000	
4	H16	* H0400400PG2000	
5	H16	* H0400500PG2000	
6	H16	* H0400600PG2000	
8	H16	* H0400800PG2000	
10	H16	* H0401000PG2000	
12	H16	* H0401200PG2000	
14	H16	* H0401400PG2000	
16	H16	* H0401600PG2000	
18	H16	* H0401800PG2000	
20	H16	* H0402000PG2000	
24	H16	* H0402400PG2000	

Size (inch)	Lift Qty (ft)	Average O.D. (inch)	min. wall (inch)	Wt/Ft (lbs/ft)	Max Water Pressure (psi)
⅛	5700	0.405	0.068	0.045	810
¼	5700	0.540	0.088	0.081	780
⅜	5700	0.675	0.091	0.109	620
½	5700	0.840	0.109	0.161	600
¾	5260	1.050	0.113	0.214	480
1	4280	1.315	0.133	0.315	450
1 ¼	2360	1.660	0.140	0.426	370
1 ½	2060	1.900	0.145	0.509	330
2	1660	2.375	0.154	0.682	280
2 ½	1080	2.875	0.203	1.076	300
3	840	3.500	0.216	1.409	260
3 ½	680	4.000	0.226	1.697	240
4	520	4.500	0.237	2.006	220
5	400	5.563	0.258	2.726	190
6	340	6.625	0.280	3.535	180
8	220	8.625	0.332	5.305	160
10	80	10.750	0.365	7.532	140
12	60	12.750	0.406	9.949	130
14	60	14.000	0.437	11.810	130
16	60	16.000	0.500	15.416	130
18	40	18.000	0.562	20.112	130
20	40	20.000	0.593	23.624	120
24	40	24.000	0.687	32.873	120

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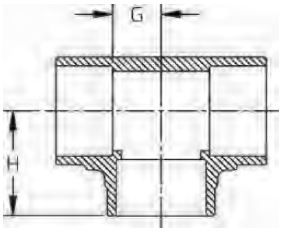
Belled End Pipe - 20 ft lengths

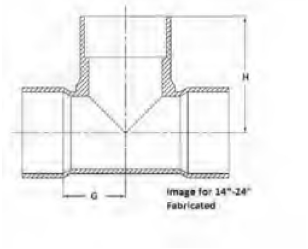


Size (inch)	P/L	Belled End Part No.	A-Socket Entrance (Belled Pipe)	B-Socket Bottom (Belled Pipe)	C-Min. (Belled Pipe)
½	H16	* **H0400050PG200B**	0.848±0.004	0.836±0.004	1.000
¾	H16	* **H0400075PG200B**	1.058±0.004	1.046±0.004	1.250
1	H16	* **H0400100PG200B**	1.325±0.005	1.310±0.005	1.500
1 ¼	H16	* **H0400125PG200B**	1.670±0.005	1.655±0.005	1.750
1 ½	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 ½	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 ½	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



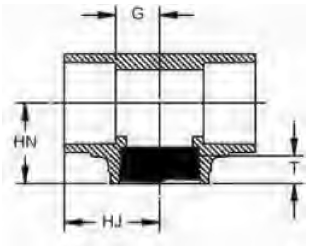




Tee (S x S x S)

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

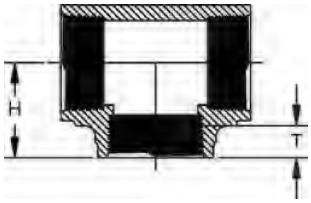




Tee (S x S X FPT)

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

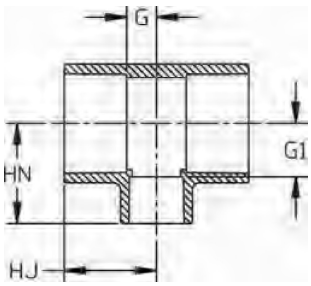


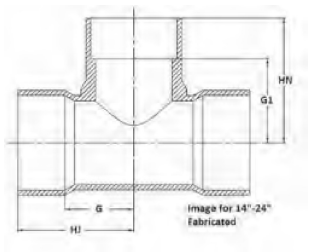


Tee (FPT x FPT x FPT)

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



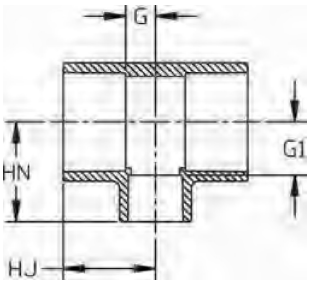


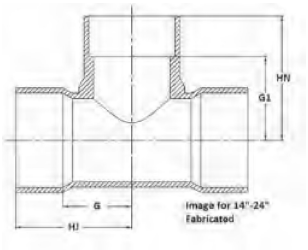


Reducing Tee (S x S x S)

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

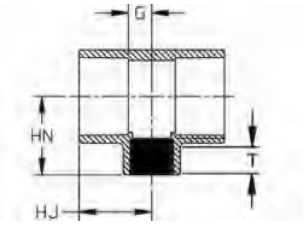
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Size (inch)	P/L	Part No.	Pack Qty	HJ (inch)	HN (inch)	G (inch)	G1 (inch)	Design
6 x 6 x 2	601	**401-528**	5	4.75	4.94	1.25	3.50	
6 x 6 x 3	601	**401-530**	5	5.38	5.56	1.81	3.56	
6 x 6 x 4	601	**401-532**	5	5.88	5.56	2.38	3.50	
8 x 8 x 4	601	**401-582**	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

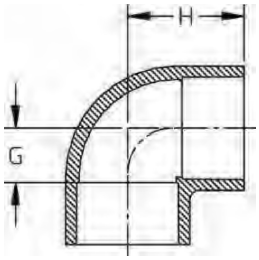


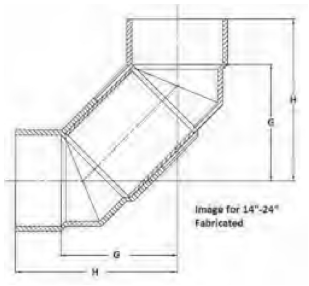


Reducing Tee (S x S x FPT)

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

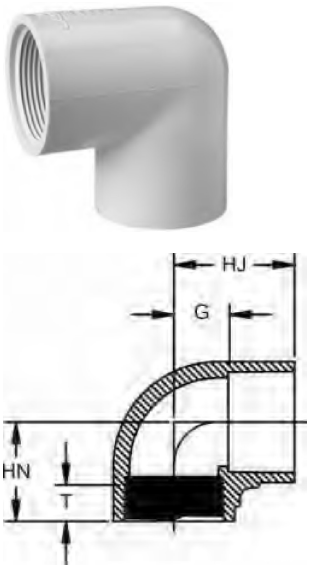






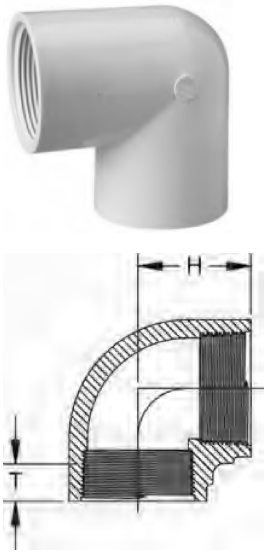
90° Ell (S x S)

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



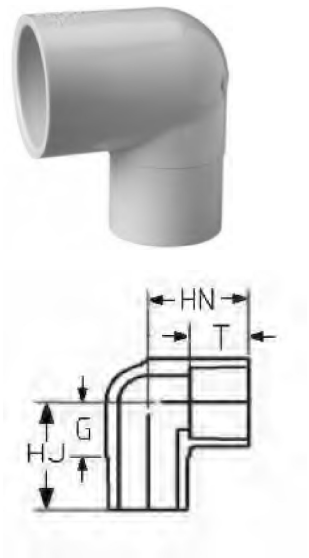
90° Ell (S x FPT)

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



90° Ell (FPT x FPT)

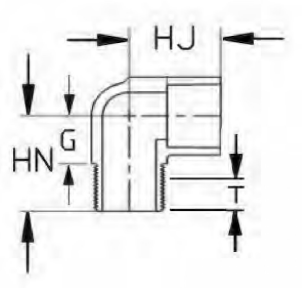
Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	T (inch)
½	601	**^ 408-005**		50	1.31	0.81
¾	601	**^ 408-007**		50	1.38	0.81
1	601	**^ 408-010**		50	1.69	1.00
1 ¼	601	**^ 408-012**		25	2.13	1.19
1 ½	601	**^ 408-015**		25	2.31	1.38
2	601	**^ 408-020**		10	2.63	1.38



90° Street Ell (S x SPG)

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

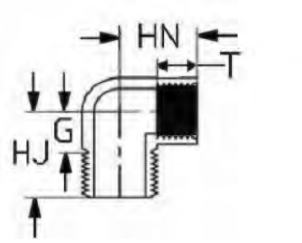




90° Street Ell (S x MPT)

Size (inch)	P/L	Part No.	USD	Pack Qty	HJ (inch)	HN (inch)	G (inch)	T (inch)
½	601	^ 410-005		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

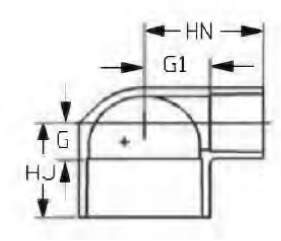




90° Street Ell (FPT x MPT)

Size (inch)	P/L	Part No.	USD	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

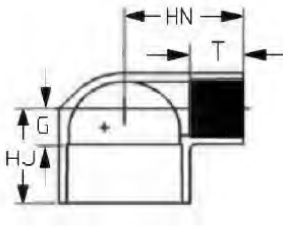




Reducing 90° Ell (S x S)

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

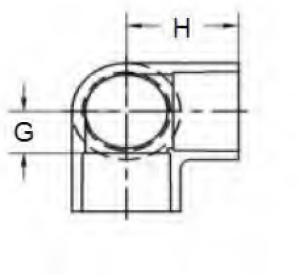




Reducing 90° Ell (S x FPT)

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

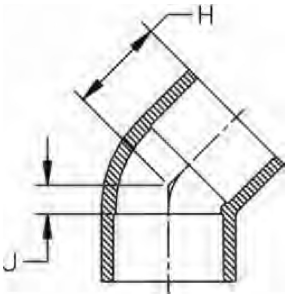


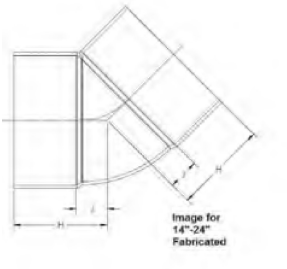


Side Outlet Elbow (S x S x S)

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



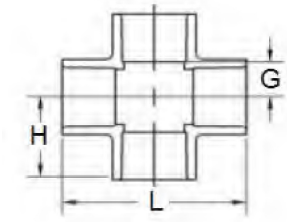




45° Ell (S x S)

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

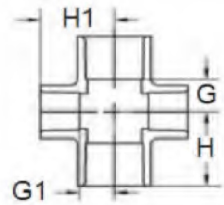




Cross (S x S x S x S)

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

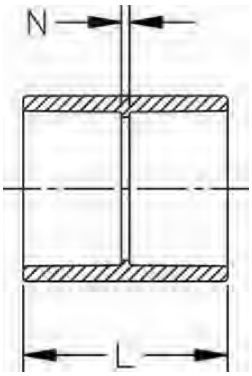


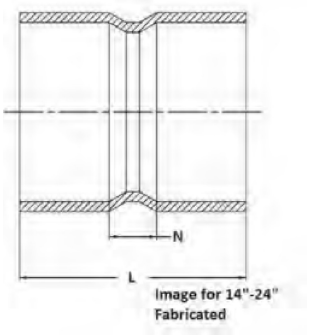


Reducing Cross (S x S x S)

Size (inch)	P/L	Part No.	USD	Pack Qty	H (inch)	H1 (inch)	G (inch)	G1 (inch)
3 x 1 ½	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 ½	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



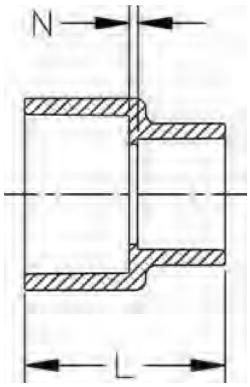


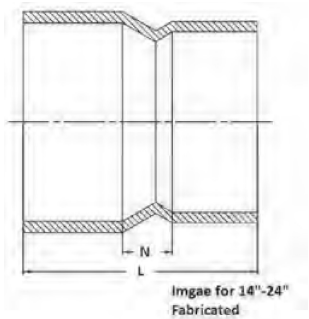


Coupling (S x S)

Size (inch)	P/L	Part No.	USD	Pack Qty	L (inch)	N (inch)	Design
½	601	429-005		100	1.69	0.13	
¾	601	429-007		50	1.69	0.13	
1	601	429-010		50	2.06	0.13	
1 ¼	601	429-012		25	2.63	0.13	
1 ½	601	429-015		25	2.75	0.13	
2	601	429-020		25	2.88	0.13	
2 ½	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



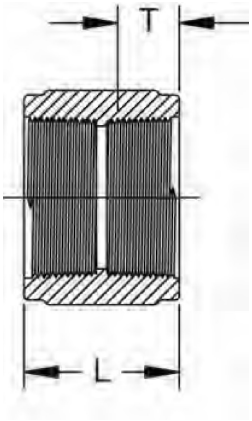




Reducing Coupling (S x S)

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

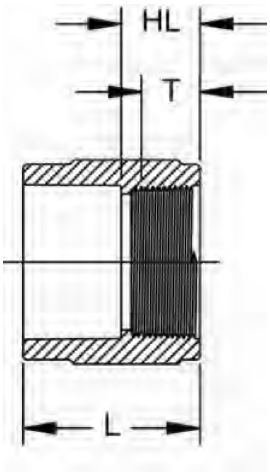




Coupling (FPT x FPT)

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

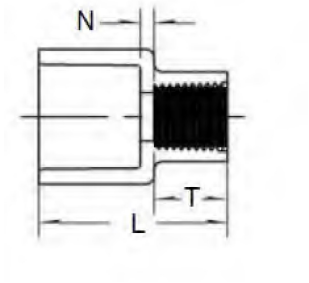




Female Adapter (S x FPT)

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

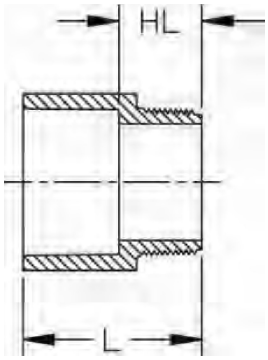




Reducing Female Adapter (S x FPT)

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

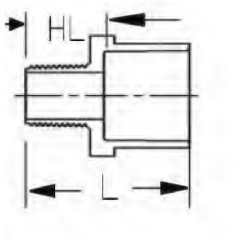




Male Adapter (MPT x S)

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

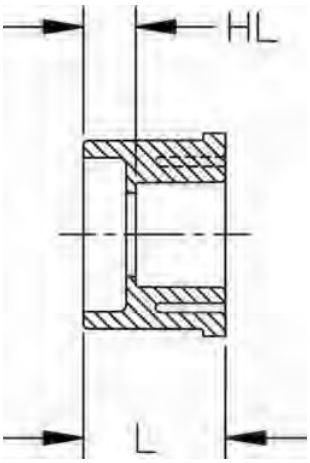




Reducing Male Adapter (MPT x S)

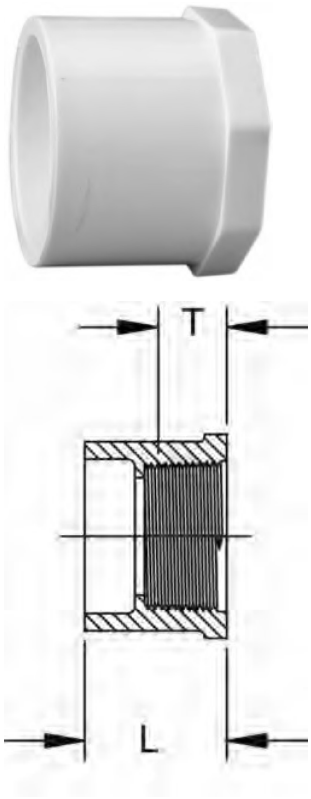
Size (inch)	P/L	Part No.	Pack Qty	HL (inch)	L (inch)
½ x ¾	601	**436-074**	50	0.88	1.75
¾ x ½	601	**436-101**	50	0.94	1.69
¾ x 1	601	**436-102**	50	0.81	1.81
1 x ¾	601	**436-131**	50	1.00	2.31
1 x 1 ¼	601	**436-132**	25	1.19	2.88
1 ¼ x 1	601	**436-168**	25	1.00	2.00
1 ¼ x 1 ½	601	**436-169**	25	0.94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





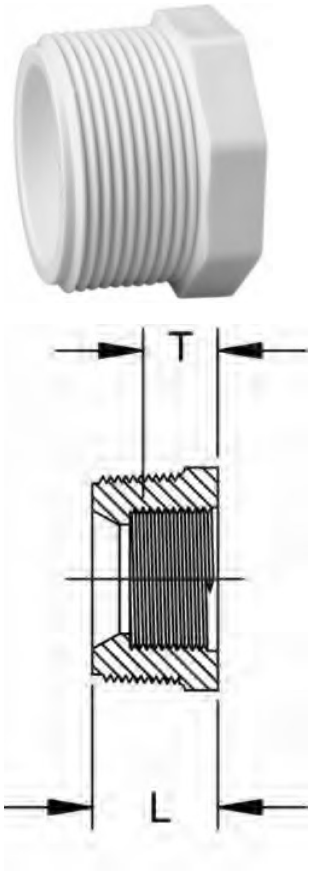
Reducer Bushing (SPG x S)

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



Reducer Bushing (SPG x FPT)

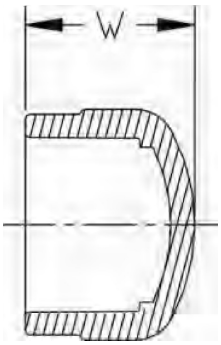
Size (inch)	P/L	Part No.	Pack Qty	L (inch)	T (inch)
½ x ¼	601	**438-072**	100	1.19	0.69
½ x ⅜	601	**438-073**	100	1.25	0.63
¾ x ¼	601	**438-098**	50	1.13	0.63
¾ x ½	601	**438-101**	100	1.06	0.81
1 x ½	601	**438-130**	100	1.25	0.75
1 x ¾	601	**438-131**	100	1.25	0.69
1 ¼ x ½	601	**438-166**	25	1.56	1.06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



Reducer Bushing (MPT x FPT)

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

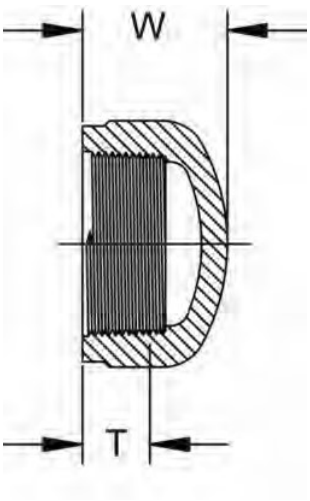




Cap (S)

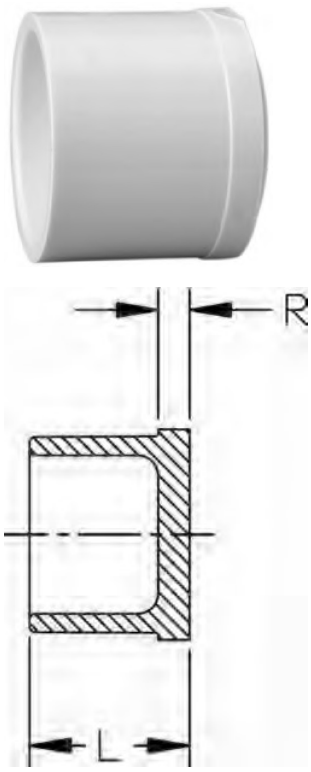
Size (inch)	P/L	Part No.	Pack Qty	W (inch)	Design
½	601	**447-005**	100	1.19	
¾	601	**447-007**	100	1.31	
1	601	**447-010**	50	1.75	
1 ¼	601	**447-012**	25	1.75	
1 ½	601	**447-015**	25	2.00	
2	601	**447-020**	25	2.19	
2 ½	601	**447-025**	10	3.06	
3	601	**447-030**	10	3.19	
4	601	**447-040**	5	3.50	
6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





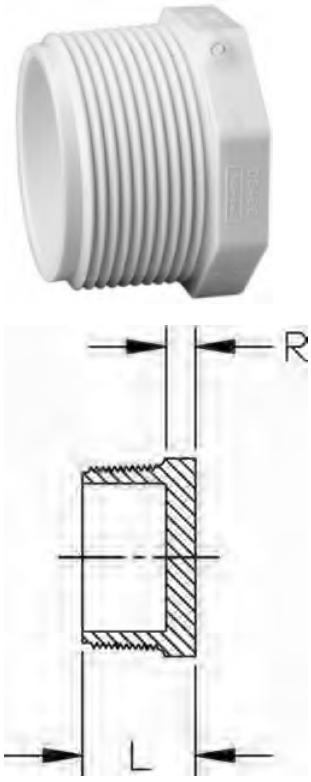
Cap (FPT)

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



Plug (SPG)

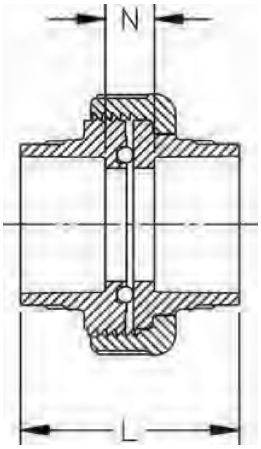
Size (inch)	P/L	Part No.	Pack Qty	L (inch)	R (inch)
½	601	**449-005**	50	1.00	0.25
¾	601	**449-007**	50	1.06	0.25
1	601	**449-010**	50	1.25	0.25
1 ¼	601	**449-012**	25	1.56	0.31
1 ½	601	**449-015**	25	1.63	0.31
2	601	**449-020**	10	1.69	0.31
2 ½	601	**449-025**	10	2.38	0.38
3	601	**449-030**	10	2.38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



Plug (MPT)

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



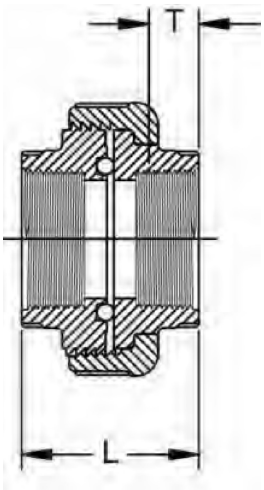


Union (S x S)

- 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	**457-005**	10	1.75	0.25
¾	601	**457-007**	10	1.88	0.25
1	601	**457-010**	10	2.38	0.25
1 ¼	601	**457-012**	5	2.81	0.38
1 ½	601	**457-015**	5	3.00	0.38
2	601	**457-020**	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	**^ 458-005**	10	1.75	0.75
¾	601	**^ 458-007**	10	1.88	0.81
1	601	**^ 458-010**	10	2.44	1.06
1 ¼	601	**^ 458-012**	5	2.81	1.13
1 ½	601	**^ 458-015**	5	3.00	1.06
2	601	**^ 458-020**	5	3.13	1.19