

Pressure

CHARLOTTE
PIPE AND FOUNDRY COMPANY®

DIMENSIONAL CATALOG

**PVC Schedule 80 Pipe and
Fittings**

**PVC Schedule 40 Pipe and
Fittings**

**FlowGuard Gold® CPVC CTS
Pipe and Fittings**

**Corzan® CPVC Schedule 80
Pipe**

[Updated May 14, 2024]

You can't beat the system.®

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Download our Tech Tools App for dimensional info, tech calculators and more on your mobile device.



This catalog accurately reflects dimensional information to the best of our knowledge. If dimensions on your job are critical, please verify dimensional information with our factory.

This dimensional catalog accurately reflects our product line at the time the catalog was printed. However, we add and delete items on an ongoing basis to better serve our customers. Please refer to our current list price sheets for an accurate listing of items offered.

PRESSURE PIPE AND FITTINGS

DIMENSIONAL CATALOG

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PVC Schedule 80 Pipe

PVC Schedule 80 Pipe, Type 1, Grade 1 - Plain End



PVC SCHEDULE 80 (GRAY)			PLAIN END			PVC 1120	
PART NO.	NOM. SIZE	UPC # 611942-	QTY. PER SKID	AVG. OD (IN.)	MIN. WALL (IN.)	MAX WORK PRESSURE AT 23° C OR 73° F	WT. PER 100 FT. (LBS.)
PVC 10002	1/4" x 20'	04920	15140'	0.540	.119	1130 PSI	10.0
PVC 10003	3/8" x 20'	04917	9360'	0.675	.126	920 PSI	13.8
PVC 10005	1/2" x 20'	03968	9000'	0.840	.147	850 PSI	20.3
PVC 10007	3/4" x 20'	03969	7000'	1.050	.154	690 PSI	27.5
PVC 10010	1" x 20'	03970	3540'	1.315	.179	630 PSI	40.5
PVC 10012	1 1/4" x 20'	03973	4240'	1.660	.191	520 PSI	55.9
PVC 10015	1 1/2" x 20'	03976	3300'	1.900	.200	470 PSI	67.7
PVC 10020	2" x 20'	03977	1980'	2.375	.218	400 PSI	93.6
PVC 10025	2 1/2" x 20'	03978	1460'	2.875	.276	420 PSI	142.8
PVC 10030	3" x 20'	03979	1000'	3.500	.300	370 PSI	194.2
PVC 10040	4" x 20'	03980	1140'	4.500	.337	320 PSI	279.3
PVC 10050	5" x 20'	04831	760'	5.563	.375	290 PSI	387.3
PVC 10060	6" x 20'	03981	520'	6.625	.432	280 PSI	532.7
PVC 10080	8" x 20'	04175	280'	8.625	.500	250 PSI	808.9
PVC 10100	10" x 20'	04768	160'	10.750	.593	230 PSI	1199.3
PVC 10120	12" x 20'	04770	80'	12.750	.687	230 PSI	1650.1
PVC 10140	14" x 20'	04816	60'	14.000	.750	220 PSI	1930.0
PVC 10160	16" x 20'	04919	60'	16.000	.843	220 PSI	2544.1

Note: Full pallets are polyethylene wrapped for cleanliness and UV protection.

NSF Listed. Meets All Requirements of ASTM D 1784 and ASTM D 1785.



⚠ WARNING

Testing with or use of compressed air or gas in ABS / CPVC / PVC pipe or fittings can result in explosive failures and cause severe injury or death.

- NEVER test with or transport/store compressed air or gas in ABS / CPVC / PVC pipe or fittings.
- NEVER test ABS / CPVC / PVC pipe or fittings with compressed air or gas, or air over water boosters.
- ONLY use ABS / CPVC / PVC pipe or fittings for water or approved chemicals.
- Refer to warnings on PPFA's website and ASTM D 1785.

PVC Schedule 80 Pipe

PVC Schedule 80 Pipe, Type 1, Grade 1 - Belled End



PVC SCHEDULE 80 (GRAY)			BELLED-END			PVC 1120	
PART NO.	NOM. SIZE	UPC # 611942-	QTY. PER SKID	AVG. OD (IN.)	MIN. WALL (IN.)	MAX WORK PRESSURE AT 23° C OR 73° F	WT. PER 100 FT. (LBS.)
PVC 10005B	1/2" x 20'	04924	9000'	0.840	.147	850 PSI	20.3
PVC 10007B	3/4" x 20'	04925	7000'	1.050	.154	690 PSI	27.0
PVC 10010B	1" x 20'	04926	3540'	1.315	.179	630 PSI	40.5
PVC 10012B	1 1/4" x 20'	04927	4240'	1.660	.191	520 PSI	55.9
PVC 10015B	1 1/2" x 20'	04928	3300'	1.900	.200	470 PSI	67.7
PVC 10020B	2" x 20'	04764	1980'	2.375	.218	400 PSI	93.6
PVC 10025B	2 1/2" x 20'	04875	1460'	2.875	.276	420 PSI	142.8
PVC 10030B	3" x 20'	04776	1000'	3.500	.300	370 PSI	191.1
PVC 10040B	4" x 20'	04774	1140'	4.500	.337	320 PSI	279.3
PVC 10060B	6" x 20'	04763	520'	6.625	.432	280 PSI	532.7
PVC 10080B	8" x 20'	04766	200'	8.625	.500	250 PSI	808.9
PVC 10100B	10" x 20'	04769	160'	10.750	.593	230 PSI	1199.3
PVC 10120B	12" x 20'	04771	60'	12.750	.687	230 PSI	1650.1
PVC 10140B	14" x 20'	04832	60'	14.000	.750	220 PSI	1930.0
PVC 10160B	16" x 20'	09372	60'	16.000	.843	220 PSI	2544.1

Note: Full pallets are polyethylene wrapped for cleanliness and UV protection.

NSF Listed. Meets All Requirements of
ASTM D 1784 and ASTM D 1785.



WARNING

Testing with or use of compressed air or gas in ABS / CPVC / PVC pipe or fittings can result in explosive failures and cause severe injury or death.

AIR / GAS

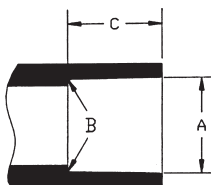


- NEVER test with or transport/store compressed air or gas in ABS / CPVC / PVC pipe or fittings.
- NEVER test ABS / CPVC / PVC pipe or fittings with compressed air or gas, or air over water boosters.
- ONLY use ABS / CPVC / PVC pipe or fittings for water or approved chemicals.
- Refer to warnings on PPFA's website and ASTM D 1785.

Schedule 80 Fittings

Schedule 80 and Schedule 40 Tapered Socket Dimensions

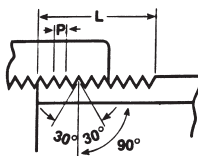
PVC SCHEDULE 80 - ASTM D 2467
PVC SCHEDULE 40 - ASTM D 2466



Nominal Size	Schedule 80 and Schedule 40 Socket Diameter			Schedule 80 Socket Length C (Minimum)	Schedule 40 Socket Length C (Minimum)
	Entrance A	Bottom B	Tolerance		
1/2	0.848	0.836	±0.004	0.875	0.688
3/4	1.058	1.046	±0.004	1.000	0.719
1	1.325	1.310	±0.005	1.125	0.875
1 1/4	1.670	1.655	±0.005	1.290	0.938
1 1/2	1.912	1.894	±0.006	1.375	1.094
2	2.387	2.369	±0.006	1.500	1.156
2 1/2	2.889	2.868	±0.007	1.750	1.750
3	3.516	3.492	±0.008	1.875	1.875
4	4.518	4.491	±0.009	2.250	2.000
6	6.647	6.614	±0.011	3.000	3.000
8	8.655	8.610	±0.015	4.000	4.000
10	10.780	10.735	±0.015	5.000	5.000
12	12.780	12.735	±0.015	6.000	6.000

American National Standard Taper Pipe Threads (NPT)

ANSI / ASME B1.20.1,
ASTM D 2467, ASTM F 1498



Nominal Size	Effective Thread Length (L)	Threads Per Inch	Pitch of Thread (P)
1/2	0.5337	14.0	.07143
3/4	0.5457	14.0	.07143
1	0.6828	11.5	.08696
1 1/4	0.7068	11.5	.08696
1 1/2	0.7235	11.5	.08696
2	0.7565	11.5	.08696
2 1/2	1.1375	8.0	.12500
3	1.2000	8.0	.12500
4	1.3000	8.0	.12500

- S = SOCKET, SPG = SPIGOT, MPT = MALE PIPE THREAD, FPT = FEMALE PIPE THREAD
- ALL DIMENSIONS ARE IN INCHES.

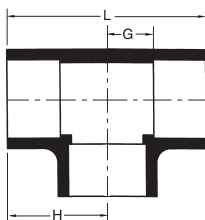
TOLERANCES

- S = (SOCKET LENGTH) MINIMUM
- G = (LAYING LENGTH) INTERSECTION OF CENTER LINES TO BOTTOM OF SOCKET/THREAD, 90° ELBOWS, TEES, CROSSES, $\pm 1/32''$
- H = INTERSECTION OF CENTER LINES TO FACE OF FITTINGS; 90° ELBOWS, TEES, CROSSES, $\pm 1/32''$
- J = (LAYING LENGTH) INTERSECTION OF CENTER LINES TO BOTTOM OF SOCKET/THREAD; 45° ELBOWS, $\pm 1/32''$
- L = OVERALL LENGTH OF FITTINGS, (INCLUDING CAPS), $\pm 1/16''$
- M = OUTSIDE DIAMETER OF SOCKET/THREAD HUB, $\pm 1/16''$
- N = SOCKET/THREAD BOTTOM TO SOCKET/THREAD BOTTOM; COUPLINGS, $\pm 1/16''$
- DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTIFICATION.

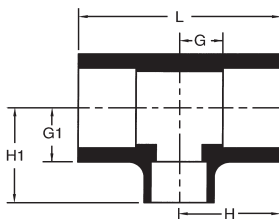
Tee

SxSxS

PVC PART NO. 8400



Size	Universal Part Number	L	H	G	Approx Wt. (Lbs.)
1/2	801-005	2 ¹⁵ / ₁₆	1 ¹⁵ / ₃₂	19 ⁹ / ₃₂	0.11
3/4	801-007	3 ⁷ / ₁₆	1 ²³ / ₃₂	11 ¹ / ₁₆	0.17
1	801-010	4	2	27 ⁷ / ₃₂	0.29
1 1/4	801-012	4 ⁹ / ₁₆	2 ⁹ / ₃₂	1	0.42
1 1/2	801-015	4 ⁷ / ₈	2 ⁷ / ₁₆	11 ¹ / ₃₂	0.51
2	801-020	5 ³ / ₄	2 ⁷ / ₈	15 ¹ / ₁₆	0.84
2 1/2	801-025	6 ¹⁵ / ₁₆	3 ¹⁵ / ₃₂	12 ¹ / ₃₂	1.49
3	801-030	7 ¹⁵ / ₁₆	3 ³¹ / ₃₂	2 ³ / ₃₂	2.38
4	801-040	9 ³ / ₈	4 ¹¹ / ₁₆	2 ⁷ / ₁₆	3.76
6	801-060	14 ¹ / ₈	7 ¹ / ₁₆	4 ¹ / ₃₂	10.75
8	801-080	17 ¹⁹ / ₃₂	8 ¹³ / ₁₆	4 ³ / ₄	20.13
10	801-100	21 ¹⁷ / ₃₂	10 ³ / ₄	5 ²³ / ₃₂	31.69
12	801-120	26 ⁷ / ₈	13 ⁷ / ₁₆	6 ¹⁵ / ₁₆	56.64

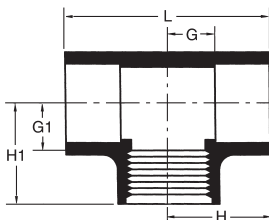
Reducing Tee
S x S x S
PVC PART NO. 8400


Size	Universal Part Number	L	H	H1	G	G1	Apprx. Wt. (Lbs.)
$\frac{3}{4} \times \frac{3}{4} \times \frac{1}{2}$	801-101	$3\frac{3}{16}$	$1\frac{19}{32}$	$1\frac{21}{32}$	$\frac{9}{16}$	$\frac{3}{4}$	0.15
$1 \times 1 \times \frac{1}{2}$	801-130	$3\frac{15}{32}$	$1\frac{3}{4}$	$1\frac{19}{32}$	$\frac{19}{32}$	$1\frac{1}{16}$	0.23
$1 \times 1 \times \frac{3}{4}$	801-131	$3\frac{21}{32}$	$1\frac{13}{16}$	$1\frac{27}{32}$	$\frac{11}{16}$	$2\frac{7}{32}$	0.23
$1\frac{1}{4} \times 1\frac{1}{4} \times 1$	801-168	$4\frac{17}{64}$	$2\frac{1}{8}$	$2\frac{1}{16}$	$\frac{13}{16}$	$1\frac{5}{16}$	0.36
$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{4}$	801-210	$4\frac{5}{32}$	$2\frac{3}{32}$	$2\frac{1}{32}$	$\frac{11}{16}$	1	0.36
$1\frac{1}{2} \times 1\frac{1}{2} \times 1$	801-211	$4\frac{1}{2}$	$2\frac{1}{4}$	$2\frac{9}{32}$	$\frac{7}{8}$	$1\frac{5}{32}$	0.42
$1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{4}$	801-212	$5\frac{1}{8}$	$2\frac{5}{8}$	$2\frac{5}{16}$	$\frac{13}{16}$	$1\frac{1}{32}$	0.51
$2 \times 2 \times \frac{1}{2}$	801-247	$4\frac{5}{32}$	$2\frac{3}{32}$	$2\frac{5}{32}$	$\frac{9}{16}$	$1\frac{1}{4}$	0.44
$2 \times 2 \times \frac{3}{4}$	801-248	$4\frac{13}{32}$	$2\frac{7}{32}$	$2\frac{9}{32}$	$\frac{11}{16}$	$1\frac{1}{4}$	0.48
$2 \times 2 \times 1$	801-249	$4\frac{3}{4}$	$2\frac{3}{8}$	$2\frac{9}{16}$	$\frac{7}{8}$	$1\frac{13}{32}$	0.60
$2 \times 2 \times 1\frac{1}{2}$	801-251	$5\frac{3}{8}$	$2\frac{11}{16}$	$2\frac{13}{16}$	$\frac{13}{16}$	$1\frac{13}{32}$	0.73
$3 \times 3 \times 2$	801-338	$6\frac{5}{8}$	$3\frac{5}{16}$	$3\frac{11}{32}$	$1\frac{7}{16}$	$1\frac{13}{16}$	1.62
$4 \times 4 \times 2$	801-420	$7\frac{9}{16}$	$3\frac{25}{32}$	$4\frac{1}{8}$	$1\frac{1}{2}$	$2\frac{19}{32}$	2.77
$4 \times 4 \times 3$	801-422	$8\frac{5}{8}$	$4\frac{5}{16}$	$4\frac{5}{32}$	$2\frac{1}{16}$	$2\frac{19}{32}$	3.13
$6 \times 6 \times 2$	801-528	$9\frac{17}{32}$	$4\frac{25}{32}$	$5\frac{1}{16}$	$1\frac{3}{4}$	$3\frac{17}{32}$	6.16
$6 \times 6 \times 4$	801-532	$11\frac{1}{2}$	$5\frac{3}{4}$	6	$2\frac{23}{32}$	$3\frac{23}{32}$	7.21
$8 \times 8 \times 6$	801-585	$15\frac{5}{8}$	$7\frac{13}{16}$	$7\frac{1}{8}$	$3\frac{3}{4}$	$4\frac{1}{16}$	15.29

Tee

S x S x FPT

PVC PART NO. 8401

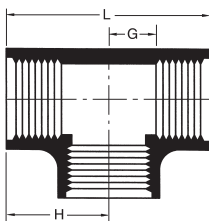


Size	Universal Part Number	L	H	G	H1	G1	Apprx. Wt. (Lbs.)
1/2	802-005	2 ¹³ / ₁₆	1 ¹³ / ₃₂	1 ⁷ / ₃₂	1 ¹¹ / ₃₂	1 ⁹ / ₃₂	0.15
3/4	802-007	3 ³ / ₁₆	1 ²¹ / ₃₂	2 ¹ / ₃₂	1 ¹⁷ / ₃₂	2 ⁵ / ₃₂	0.22
1	802-010	3 ¹¹ / ₁₆	1 ²⁷ / ₃₂	2 ³ / ₃₂	1 ¹³ / ₁₆	1 ³ / ₁₆	0.34

Tee

FPT x FPT x FPT

PVC PART NO. 8402

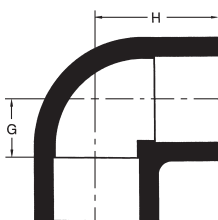


Size	Universal Part Number	L	H	G	Approx. Wt. (Lbs.)
1/2	805-005	2 ⁵ / ₈	1 ⁵ / ₁₆	1 ⁷ / ₃₂	0.14
3/4	805-007	2 ¹⁵ / ₁₆	1 ¹⁵ / ₃₂	2 ¹ / ₃₂	0.19
1	805-010	3 ⁷ / ₁₆	1 ²³ / ₃₂	3/4	0.34
1 1/4	805-012	3 ⁷ / ₈	1 ¹⁵ / ₁₆	1 ⁵ / ₁₆	0.48
1 1/2	805-015	4 ³ / ₁₆	2 ³ / ₃₂	1 ¹ / ₃₂	0.64
2	805-020	4 ³ / ₄	2 ³ / ₈	1 ⁵ / ₁₆	0.90
3	805-030	7 ¹ / ₁₆	3 ¹⁷ / ₃₂	1 ²⁹ / ₃₂	2.73
4	805-040	8 ⁷ / ₁₆	4 ⁷ / ₃₂	2 ¹⁵ / ₃₂	4.49

90 Degree Elbow

S x S

PVC PART NO. 8300

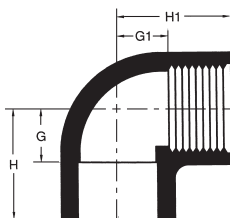


Size	Universal Part Number	H	G	Approx. Wt. (Lbs.)
1/2	806-005	1 ¹⁵ / ₃₂	1 ⁹ / ₃₂	0.08
3/4	806-007	1 ¹¹ / ₁₆	1 ¹ / ₁₆	0.13
1	806-010	2	2 ⁷ / ₃₂	0.19
1 1/4	806-012	2 ⁹ / ₃₂	1	0.32
1 1/2	806-015	2 ⁷ / ₁₆	1 ¹ / ₃₂	0.42
2	806-020	2 ²⁷ / ₃₂	1 ⁵ / ₁₆	0.63
2 1/2	806-025	3 ⁷ / ₁₆	1 ²¹ / ₃₂	1.13
3	806-030	3 ³ / ₄	1 ²⁷ / ₃₂	1.60
4	806-040	4 ¹¹ / ₁₆	2 ⁷ / ₁₆	2.85
6	806-060	6 ¹¹ / ₁₆	3 ¹¹ / ₁₆	8.27
8	806-080	8 ¹⁹ / ₃₂	4 ¹⁹ / ₃₂	15.46
10	806-100	10 ³ / ₄	5 ²³ / ₃₂	28.20
12	806-120	13 ⁷ / ₁₆	6 ¹⁵ / ₁₆	42.98

90 Degree Elbow

S x FPT

PVC PART NO. 8301

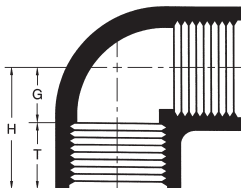


Size	Universal Part Number	H	G	H1	G1	Approx. Wt. (Lbs.)
1/2	807-005	1 ³ / ₈	1/2	1 ¹³ / ₃₂	2 ² / ₃₂	.138
3/4	807-007	1 ²¹ / ₃₂	5/8	1 ⁵ / ₈	1 ³ / ₁₆	.173
1	807-010	1 ²⁷ / ₃₂	2 ³ / ₃₂	1 ²⁵ / ₃₂	2 ⁷ / ₃₂	.265
1 1/4	807-012	2 ¹ / ₄	1 ¹ / ₄	2	1	.434
1 1/2	807-015	2 ³ / ₈	1	2 ¹ / ₈	1 ¹ / ₁₆	.562
2	807-020	2 ³ / ₄	1 ¹ / ₄	2 ⁷ / ₁₆	1 ⁷ / ₁₆	.802

90 Degree Elbow

FPT x FPT

PVC PART NO. 8302

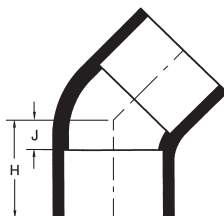


Size	Universal Part Number	T	G	H	Approx. Wt. (Lbs.)
1/2	808-005	3/4	2 1/32	1 13/32	0.11
3/4	808-007	25/32	27/32	1 5/8	0.18
1	808-010	3 1/32	3/4	1 23/32	0.26
1 1/4	808-012	1	3 1/32	1 31/32	0.42
1 1/2	808-015	1 1/16	1 5/32	2 7/32	0.54
2	808-020	1 3/32	1 13/32	2 1/2	0.82
3	808-030	1 5/8	1 15/16	3 9/16	2.30
4	808-040	1 11/16	2 1/2	4 3/16	3.62

45 Degree Elbow

S x S

PVC PART NO. 8309

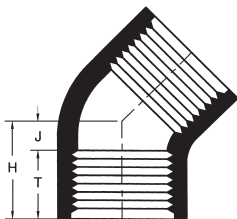


Size	Universal Part Number	H	J	Approx. Wt. (Lbs.)
1/2	817-005	1 5/32	1/4	0.07
3/4	817-007	1 11/32	5/16	0.10
1	817-010	1 15/32	5/16	0.16
1 1/4	817-012	1 11/16	1 3/32	0.22
1 1/2	817-015	1 7/8	1/2	0.30
2	817-020	2 5/32	2 1/32	0.48
2 1/2	817-025	2 1/2	2 3/32	0.83
3	817-030	2 11/16	2 5/32	1.16
4	817-040	3 9/16	1 9/32	2.21
6	817-060	5	2	5.50
8	817-080	6 1/4	2 1/4	10.42
10	817-100	8 5/16	3 9/32	21.73
12	817-120	8 13/16	2 3/4	30.70

45 Degree Elbow

FPT x FPT

PVC PART NO. 8312

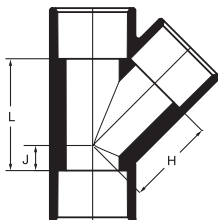


Size	Universal Part Number	H	J	T	Approx. Wt. (Lbs.)
1/2	819-005	1 1/32	9/32	3/4	0.07
3/4	819-007	1 1/8	1 1/32	25/32	0.10
1	819-010	1 11/32	3/8	31/32	0.16
1 1/4	819-012	1 7/16	7/16	1	0.23
1 1/2	819-015	1 9/16	17/32	1 1/32	0.31
2	819-020	1 3/4	23/32	1 1/32	0.46
3	819-030	2 3/4	7/8	1 7/8	1.74

Wye

S x S x S

PVC PART NO. 8600



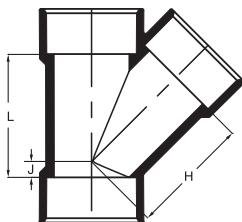
Size	Universal Part Number	L	J	H	Approx. Wt. (Lbs.)
1 1/2*	875-015	3 1/16	1 1/16	2 13/32	0.65
2*	875-020	3 7/8	2 1/32	3 7/32	1.06
3*	875-030	4 15/16	1 1/16	6 9/16	2.51

*Maximum pressure rating is 250 psi at 73°F.

Wye

S x S x S

PVC PART NO. 8600



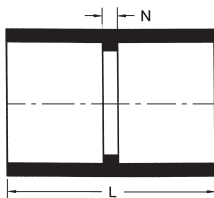
Size	Universal Part Number	L	J	H	Approx. Wt. (Lbs.)
4**	875-040	6 ³ / ₁₆	1 ³ / ₁₆	5 ³ / ₈	4.42
6**	875-060	9 ³ / ₈	1 ¹³ / ₃₂	7 ³¹ / ₃₂	11.95

**Maximum pressure rating is 150 psi at 73°F.

Coupling

S x S

PVC PART NO. 8100

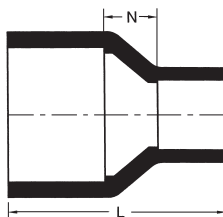


Size	Universal Part Number	L	N	Approx. Wt. (Lbs.)
1/2	829-005	1 ¹⁵ / ₁₆	1/8	0.05
3/4	829-007	2 ³ / ₁₆	1/8	0.08
1	829-010	2 ⁷ / ₁₆	1/8	0.12
1 1/4	829-012	2 ¹¹ / ₁₆	1/8	0.17
1 1/2	829-015	2 ¹⁵ / ₁₆	1/8	0.23
2	829-020	3 ³ / ₁₆	1/8	0.33
2 1/2	829-025	3 ³ / ₄	3/16	0.57
3	829-030	4	3/16	0.84
4	829-040	4 ³ / ₄	3/16	1.35
6	829-060	6 ⁹ / ₃₂	1/4	3.46
8	829-080	8 ¹ / ₄	1/4	6.61
10	829-100	11 ³¹ / ₃₂	9/32	11.27
12	829-120	14 ⁵ / ₃₂	1 ³ / ₃₂	19.00

Reducer Coupling

S x S

PVC PART NO. 8100

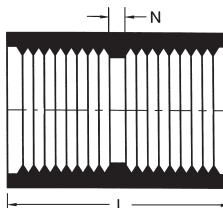


Size	Universal Part Number	L	N	Approx. Wt. (Lbs.)
$\frac{3}{4} \times 1\frac{1}{2}$	829-101	$2\frac{3}{16}$	$\frac{1}{4}$	0.07
$1 \times 1\frac{1}{2}$	829-130	$2\frac{3}{8}$	$\frac{5}{16}$	0.11
$1 \times \frac{3}{4}$	829-131	$2\frac{7}{16}$	$\frac{1}{4}$	0.11
$1\frac{1}{4} \times 1$	829-168	$2\frac{3}{4}$	$\frac{5}{16}$	0.17
$1\frac{1}{2} \times 1$	829-211	$2\frac{7}{8}$	$\frac{5}{16}$	0.21
$1\frac{1}{2} \times 1\frac{1}{4}$	829-212	$2\frac{15}{16}$	$\frac{1}{4}$	0.23
2×1	829-249	$3\frac{1}{2}$	$\frac{3}{8}$	0.32
$2 \times 1\frac{1}{2}$	829-251	$3\frac{3}{16}$	$\frac{9}{32}$	0.32
3×2	829-338	$4\frac{1}{8}$	$\frac{3}{4}$	0.78
4×2	829-420	$5\frac{1}{8}$	$1\frac{5}{16}$	1.32
4×3	829-422	$5\frac{1}{8}$	$1\frac{5}{16}$	1.38
6×4	829-532	$6\frac{5}{8}$	$1\frac{3}{8}$	3.08

Coupling

FPT x FPT

PVC PART NO. 8102

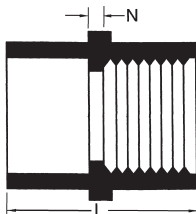


Size	Universal Part Number	L	N	Approx. Wt. (Lbs.)
$\frac{1}{2}$	830-005	$1\frac{5}{8}$	$\frac{1}{8}$	0.08
$\frac{3}{4}$	830-007	$1\frac{11}{16}$	$\frac{1}{8}$	0.09
1	830-010	$2\frac{1}{16}$	$\frac{1}{8}$	0.15
$1\frac{1}{4}$	830-012	$2\frac{3}{16}$	$\frac{1}{8}$	0.23
$1\frac{1}{2}$	830-015	$2\frac{1}{4}$	$\frac{3}{16}$	0.28
2	830-020	$2\frac{5}{16}$	$\frac{3}{16}$	0.36
3	830-030	$3\frac{1}{2}$	$\frac{1}{8}$	1.09
4	830-040	$3\frac{5}{8}$	$\frac{1}{8}$	1.61

Female Adapter

S x FPT

PVC PART NO. 8101

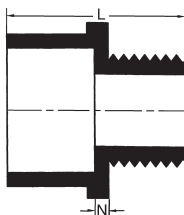


Size	Universal Part Number	L	N	Approx. Wt. (Lbs.)
1/2	835-005	1 ²⁵ / ₃₂	3/32	0.07
3/4	835-007	1 ¹⁵ / ₁₆	3/32	0.10
1	835-010	2 ⁹ / ₃₂	3/32	0.16
1 1/4	835-012	2 ³ / ₈	1/8	0.22
1 1/2	835-015	2 ⁹ / ₁₆	1/8	0.27
2	835-020	2 ²³ / ₃₂	3/32	0.39
2 1/2	835-025	3 ¹⁹ / ₃₂	7/32	0.73
3	835-030	3 ³ / ₄	7/32	0.96
4	835-040	4 1/4	1/4	1.52

Male Adapter

S x MPT

PVC PART NO. 8109

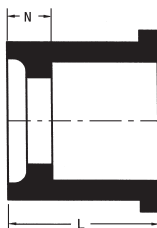


Size	Universal Part Number	L	N	Approx. Wt. (Lbs.)
1/2	836-005	1 ¹³ / ₁₆	3/16	0.05
3/4	836-007	2	1/4	0.06
1	836-010	2 ³ / ₈	3/16	0.10
1 1/4	836-012	2 1/2	1/4	0.15
1 1/2	836-015	2 ⁵ / ₈	1/4	0.19
2	836-020	2 ⁷ / ₈	9/32	0.27
2 1/2	836-025	3 ¹¹ / ₁₆	11/32	0.50
3	836-030	3 ⁷ / ₈	3/8	0.73
4	836-040	4 1/2	7/16	1.40

Reducer Bushing, Flush Style

SPG x S

PVC PART NO. 8107

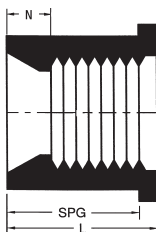


Size	Universal Part Number	L	N	Approx. Wt. (Lbs.)
$\frac{3}{4} \times \frac{1}{2}$	837-101	$1\frac{9}{32}$	$1\frac{13}{32}$	0.02
$1 \times \frac{1}{2}$	837-130	$1\frac{13}{32}$	$1\frac{17}{32}$	0.07
$1 \times \frac{3}{4}$	837-131	$1\frac{13}{32}$	$1\frac{13}{32}$	0.04
$1\frac{1}{4} \times \frac{1}{2}$	837-166	$1\frac{1}{2}$	$\frac{5}{8}$	0.11
$1\frac{1}{4} \times \frac{3}{4}$	837-167	$1\frac{1}{2}$	$\frac{1}{2}$	0.11
$1\frac{1}{4} \times 1$	837-168	$1\frac{19}{32}$	$1\frac{15}{32}$	0.08
$1\frac{1}{2} \times \frac{1}{2}$	837-209	$1\frac{23}{32}$	$2\frac{27}{32}$	0.15
$1\frac{1}{2} \times \frac{3}{4}$	837-210	$1\frac{23}{32}$	$2\frac{23}{32}$	0.20
$1\frac{1}{2} \times 1$	837-211	$1\frac{23}{32}$	$1\frac{19}{32}$	0.14
$1\frac{1}{2} \times 1\frac{1}{4}$	837-212	$1\frac{23}{32}$	$1\frac{15}{32}$	0.08
$2 \times \frac{1}{2}$	837-247	$1\frac{7}{8}$	1	0.21
$2 \times \frac{3}{4}$	837-248	$1\frac{7}{8}$	$\frac{7}{8}$	0.22
2×1	837-249	$1\frac{7}{8}$	$\frac{3}{4}$	0.24
$2 \times 1\frac{1}{4}$	837-250	$1\frac{7}{8}$	$\frac{5}{8}$	0.24
$2 \times 1\frac{1}{2}$	837-251	$1\frac{29}{32}$	$1\frac{17}{32}$	0.17
$2\frac{1}{2} \times 1$	837-289	$2\frac{5}{32}$	1	0.46
$2\frac{1}{2} \times 1\frac{1}{4}$	837-290	$2\frac{5}{32}$	$2\frac{29}{32}$	0.48
$2\frac{1}{2} \times 1\frac{1}{2}$	837-291	$2\frac{5}{32}$	$2\frac{25}{32}$	0.39
$2\frac{1}{2} \times 2$	837-292	$2\frac{5}{32}$	$2\frac{1}{32}$	0.28
3×1	837-335	$2\frac{1}{4}$	$1\frac{1}{8}$	0.67
$3 \times 1\frac{1}{4}$	837-336	$2\frac{1}{4}$	1	0.66
$3 \times 1\frac{1}{2}$	837-337	$2\frac{1}{4}$	$\frac{7}{8}$	0.64
3×2	837-338	$2\frac{1}{4}$	$\frac{3}{4}$	0.59
$3 \times 2\frac{1}{2}$	837-339	$2\frac{1}{4}$	$\frac{1}{2}$	0.42
4×2	837-420	$2\frac{25}{32}$	$\frac{9}{32}$	1.10
4×3	837-422	$2\frac{19}{32}$	$1\frac{19}{32}$	0.76
6×3	837-530	$3\frac{17}{32}$	$1\frac{11}{32}$	2.60
6×4	837-532	$3\frac{17}{32}$	$1\frac{9}{32}$	2.50
8×6	837-585	$4\frac{15}{16}$	$1\frac{7}{8}$	5.52
10×8	837-628	$5\frac{9}{16}$	$1\frac{1}{2}$	8.96
12×10	837-670	$6\frac{9}{16}$	$1\frac{1}{2}$	12.13

Reducer Bushing, Flush Style

SPG x FPT

PVC PART NO. 8108

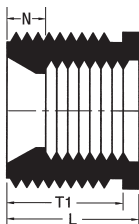


Size	Universal Part Number	L	SPG	N	Approx. Wt. (Lbs.)
$\frac{3}{4} \times \frac{1}{2}$	838-101	$1\frac{1}{4}$	$1\frac{1}{32}$	$\frac{1}{2}$	0.03
$1 \times \frac{1}{2}$	838-130	$1\frac{7}{16}$	$1\frac{5}{32}$	$1\frac{1}{16}$	0.06
$1 \times \frac{3}{4}$	838-131	$1\frac{3}{8}$	$1\frac{5}{32}$	$1\frac{9}{32}$	0.04
$1\frac{1}{4} \times \frac{3}{4}$	838-167	$1\frac{19}{32}$	$1\frac{9}{32}$	$2\frac{7}{32}$	0.11
$1\frac{1}{4} \times 1$	838-168	$1\frac{9}{16}$	$1\frac{9}{32}$	$\frac{9}{16}$	0.09
$1\frac{1}{2} \times \frac{3}{4}$	838-210	$1\frac{3}{4}$	$1\frac{13}{32}$	$1\frac{9}{32}$	0.16
$1\frac{1}{2} \times 1$	838-211	$1\frac{3}{4}$	$1\frac{13}{32}$	$1\frac{1}{32}$	0.15
$1\frac{1}{2} \times 1\frac{1}{4}$	838-212	$1\frac{21}{32}$	$1\frac{13}{32}$	$2\frac{1}{32}$	0.10
$2 \times \frac{1}{2}$	838-247	$1\frac{27}{32}$	$1\frac{17}{32}$	$1\frac{3}{32}$	0.23
$2 \times \frac{3}{4}$	838-248	$1\frac{7}{8}$	$1\frac{17}{32}$	$1\frac{3}{32}$	0.23
2×1	838-249	$1\frac{7}{8}$	$1\frac{17}{32}$	$2\frac{7}{32}$	0.28
$2 \times 1\frac{1}{4}$	838-250	$1\frac{29}{32}$	$1\frac{17}{32}$	$1\frac{3}{32}$	0.24
$2 \times 1\frac{1}{2}$	838-251	$1\frac{29}{32}$	$1\frac{17}{32}$	$\frac{7}{8}$	0.19
$2\frac{1}{2} \times 2$	838-292	$2\frac{3}{16}$	$1\frac{25}{32}$	$1\frac{5}{32}$	0.31
3×2	838-338	$2\frac{9}{32}$	$1\frac{29}{32}$	$1\frac{7}{32}$	0.64
$3 \times 2\frac{1}{2}$	838-339	$2\frac{9}{32}$	$1\frac{29}{32}$	$2\frac{7}{32}$	0.49
4×2	838-420	$2\frac{11}{16}$	$2\frac{5}{16}$	$1\frac{11}{16}$	1.11
4×3	838-422	$2\frac{11}{16}$	$2\frac{5}{16}$	$1\frac{11}{16}$	0.86

Reducer Bushing, Flush Style

MPT x FPT

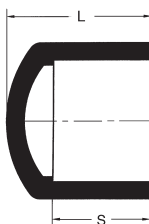
PVC PART NO. 8200



Size	Universal Part Number	L	N	T1	Approx. Wt. (Lbs.)
$\frac{3}{4} \times \frac{1}{2}$	839-101	1	$\frac{9}{32}$	$\frac{3}{4}$	0.02
$1 \times \frac{1}{2}$	839-130	$1\frac{1}{4}$	$\frac{17}{32}$	$\frac{3}{4}$	0.05
$1 \times \frac{3}{4}$	839-131	$1\frac{1}{4}$	$\frac{9}{32}$	$\frac{3}{4}$	0.04
$1\frac{1}{4} \times \frac{3}{4}$	839-167	$1\frac{5}{16}$	$\frac{9}{16}$	1	0.09
$1\frac{1}{4} \times 1$	839-168	$1\frac{5}{16}$	$\frac{5}{16}$	1	0.06
$1\frac{1}{2} \times 1$	839-211	$1\frac{3}{8}$	$\frac{5}{16}$	1	0.11
$1\frac{1}{2} \times 1\frac{1}{4}$	839-212	$1\frac{3}{8}$	$\frac{5}{16}$	1	0.07
$2 \times \frac{1}{2}$	839-247	$1\frac{7}{16}$	$\frac{11}{16}$	$1\frac{1}{8}$	0.17
2×1	839-249	$1\frac{7}{16}$	$\frac{5}{16}$	1	0.19
$2 \times 1\frac{1}{4}$	839-250	$1\frac{7}{16}$	$\frac{7}{16}$	$1\frac{1}{8}$	0.17
$2 \times 1\frac{1}{2}$	839-251	$1\frac{7}{16}$	$\frac{5}{16}$	1	0.13
$2\frac{1}{2} \times 2$	839-292	$1\frac{15}{16}$	$\frac{3}{8}$	1	0.24
3×2	839-338	2	$\frac{3}{8}$	1	0.51
4×2	839-420	$2\frac{11}{16}$	$\frac{3}{8}$	$2\frac{5}{16}$	0.99

Cap
S

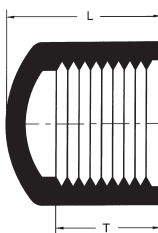
PVC PART NO. 8116



Size	Universal Part Number	S	L	Approx. Wt. (Lbs.)
1/2	847-005	7/8	1 3/8	0.04
3/4	847-007	1	1 15/32	0.06
1	847-010	1 1/8	1 5/8	0.09
1 1/4	847-012	1 1/4	1 13/16	0.15
1 1/2	847-015	1 3/8	2	0.18
2	847-020	1 1/2	2 5/32	0.28
2 1/2	847-025	1 3/4	2 19/32	0.51
3	847-030	1 7/8	2 13/16	0.72
4	847-040	2 1/4	3 5/16	1.20
6	847-060	3	4 11/16	3.10
8	847-080	4	6 7/16	6.11

Cap
FPT

PVC PART NO. 8117



Size	Universal Part Number	T	L	Approx. Wt. (Lbs.)
1/2	848-005	3/4	1 1/32	0.05
3/4	848-007	7/8	1 7/32	0.06
1	848-010	1	1 3/8	0.11
1 1/4	848-012	1	1 17/32	0.15
1 1/2	848-015	1 1/32	1 5/8	0.19
2	848-020	1 1/32	1 13/16	0.29
3	848-030	1 7/16	2 23/32	0.80
4	848-040	1 1/2	3	1.30

Plug

MPT

PVC PART NO. 8113

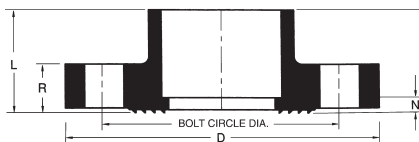


Size	Universal Part Number	L	T	Approx. Wt. (Lbs.)
1/2	850-005	1 5/16	3/4	0.02
3/4	850-007	1	3/4	0.03
1	850-010	1 1/4	1	0.05
1 1/4	850-012	1 5/16	1	0.07
1 1/2	850-015	1 5/16	1	0.10
2	850-020	1 1/2	1 1/16	0.18

Flange, One Piece**

S

PVC PART NO. 8500



Size	Universal Part Number	D	L	N	R
1/2	851-005	3 1/2	1 1/8	7/32	9/16
3/4	851-007	3 7/8	1 3/16	3/16	9/16
1	851-010	4 1/4	1 5/16	3/16	5/8
1 1/4	851-012	4 19/32	1 7/16	3/16	11/16

Size	BOLT CIRCLE DIA.	BOLT HOLE DIA.	NO. OF BOLT HOLES	BOLT DIA.	MIN. BOLT LENGTH*	Approx. Wt. (Lbs.)
1/2	2 3/8	5/8	4	1/2	2 1/4	0.18
3/4	2 3/4	5/8	4	1/2	2 1/4	0.25
1	3 1/8	5/8	4	1/2	2 1/4	0.33
1 1/4	3 1/2	5/8	4	1/2	2 1/2	0.43

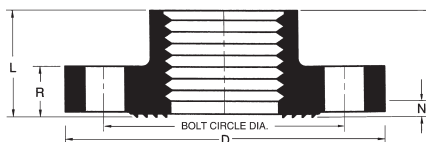
* BOLT LENGTHS WERE CALCULATED USING TWO CHARLOTTE FLANGES.
 LENGTHS MAY VARY WHEN MATING WITH OTHER BRANDS OR ACCESSORIES.

** THE MAXIMUM WORKING PRESSURE IS 150 PSI AT 73°F.

Flange, One Piece**

FPT

PVC PART NO. 8560

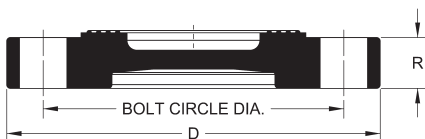


Size	Universal Part Number	D	L	N	R
1/2	852-005	3 1/2	1	1/4	9/16
3/4	852-007	3 7/8	1	3/16	19/32
1	852-010	4 1/4	1 1/8	1/8	2 1/32
1 1/4	852-012	4 19/32	1 7/32	7/32	2 3/32
1 1/2	852-015	5	1 1/4	1/4	13/16
2	852-020	6	1 3/4	3/8	13/16

Size	BOLT CIRCLE DIA.	BOLT HOLE DIA.	NO. OF BOLT HOLES	BOLT DIA.	MIN. BOLT LENGTH*	Approx. Wt. (Lbs.)
1/2	2 3/8	5/8	4	1/2	2 1/4	0.19
3/4	2 3/4	5/8	4	1/2	2 1/4	0.25
1	3 1/8	5/8	4	1/2	2 1/4	0.33
1 1/4	3 1/2	5/8	4	1/2	2 1/2	0.44
1 1/2	3 7/8	5/8	4	1/2	2 1/2	0.57
2	4 3/4	3/4	4	5/8	3	0.92

* BOLT LENGTHS WERE CALCULATED USING TWO CHARLOTTE FLANGES. LENGTHS MAY VARY WHEN MATING WITH OTHER BRANDS OR ACCESSORIES.

** THE MAXIMUM WORKING PRESSURE IS 150 PSI AT 73°F.

**Blind Flange, One
Piece****
PVC PART NO. 8510


Size	Universal Part Number	D	R	BOLT CIRCLE DIA.	BOLT HOLE DIA.	NO. OF BOLT HOLES	BOLT DIA.	MIN. BOLT LENGTH*	Approx. Wt. (Lbs.)
2	853-020	5 ⁷ / ₈	1 ³ / ₁₆	4 ³ / ₄	3 ⁴ / ₄	4	5 ⁸ / ₈	3	0.84
3	853-030	7 ⁷ / ₁₆	2 ⁹ / ₃₂	6	3 ⁴ / ₄	4	5 ⁸ / ₈	3 ³ / ₄	1.58
4	853-040	9 ¹ / ₃₂	1 ¹ / ₁₆	7 ¹ / ₂	3 ⁴ / ₄	8	5 ⁸ / ₈	3 ¹ / ₂	2.50
6	853-060	11 ¹ / ₃₂	1 ¹ / ₈	9 ¹ / ₂	1 ⁵ / ₁₆	8	3 ⁴ / ₄	3 ³ / ₄	3.69
8	853-080	13 ¹ / ₂	1 ¹⁵ / ₃₂	11 ²³ / ₃₂	1 ⁵ / ₁₆	8	3 ⁴ / ₄	4 ¹ / ₂	7.83

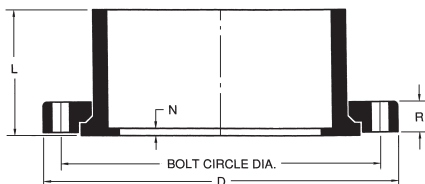
* BOLT LENGTHS WERE CALCULATED USING TWO CHARLOTTE FLANGES.
 LENGTHS MAY VARY WHEN MATING WITH OTHER BRANDS OR ACCESSORIES.

** THE MAXIMUM WORKING PRESSURE IS 150 PSI AT 73°F.

Van Stone Flange**

S

PVC PART NO. 8530



Size	Universal Part Number	D	L	N	R
1½	854-015	4 ¹⁵ / ₁₆	1 ⁹ / ₁₆	3/ ₃₂	23/ ₃₂
2	854-020	5 ⁷ / ₈	1 ²³ / ₃₂	3/ ₃₂	13/ ₁₆
2½	854-025	6 ¹¹ / ₁₆	1 ³¹ / ₃₂	1/ ₈	29/ ₃₂
3	854-030	7 ⁷ / ₁₆	2 ¹ / ₈	1/ ₈	29/ ₃₂
4	854-040	9 ¹ / ₃₂	2 ⁵ / ₈	1/ ₈	1 ¹ / ₁₆
6	854-060	10 ³¹ / ₃₂	3 ⁷ / ₃₂	1/ ₈	1 ⁷ / ₃₂
8	854-080	13 ¹¹ / ₃₂	4 ⁵ / ₁₆	3/ ₁₆	1½
10	854-100	16	5 ¹¹ / ₁₆	5/ ₈	1 ¹¹ / ₁₆
12	854-120	19	7 ⁵ / ₁₆	9/ ₁₆	1 ¹¹ / ₁₆

Size	BOLT CIRCLE DIA.	BOLT HOLE DIA.	NO. OF BOLT HOLES	BOLT DIA.	MIN. BOLT LENGTH*	Approx. Wt. (Lbs.)
1½	3 ⁷ / ₈	5/ ₈	4	1½	2½	0.54
2	4 ³ / ₄	3/ ₄	4	5/ ₈	3	0.84
2½	5½	3/ ₄	4	5/ ₈	3¼	1.27
3	6	3/ ₄	4	5/ ₈	3¼	1.55
4	7½	3/ ₄	8	5/ ₈	3½	2.71
6	9½	31/ ₃₂	8	3/ ₄	4	3.88
8	11¾	29/ ₃₂	8	3/ ₄	4½	7.21
10	14¼	1	12	7/ ₈	5	12.59
12	17	1	12	7/ ₈	5	20.74

* BOLT LENGTHS WERE CALCULATED USING TWO CHARLOTTE FLANGES.

LENGTHS MAY VARY WHEN MATING WITH OTHER BRANDS OR ACCESSORIES.

** THE MAXIMUM WORKING PRESSURE IS 150 PSI AT 73°F.

Union, with Viton® O-Ring Seal*

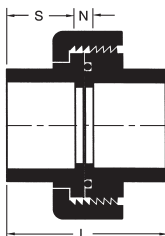
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PVC PART NO. 8700

Union, with EPDM O-Ring Seal*

S

PVC PART NO. 8710



Size	Universal Part Number		L	N	S	Approx. Wt. (Lbs.)
	with Viton O-Ring Seal	with EPDM O-Ring Seal				
1/2	857-005	897-005	2 1/8	5/16	29/32	0.18
3/4	857-007	897-007	2 7/16	7/16	1	0.26
1	857-010	897-010	2 5/8	3/8	1 1/8	0.36
1 1/4	857-012	897-012	2 15/16	7/16	1 1/4	0.52
1 1/2	857-015	897-015	3 3/16	7/16	1 3/8	0.57
2	857-020	897-020	3 21/32	2 1/32	1 1/2	0.90
3	857-030	897-030	5 1/8	1 5/16	1 29/32	2.22

* THE MAXIMUM WORKING PRESSURE IS 235 PSI AT 73°F.

Union, with Viton® O-Ring Seal*

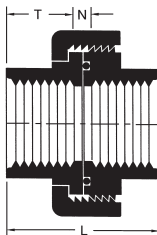
FPT

PVC PART NO. 8800

Union, with EPDM O-Ring Seal*

FPT

PVC PART NO. 8810



Size	Universal Part Number		L	N	T	Approx. Wt. (Lbs.)
	with Viton O-Ring Seal	with EPDM O-Ring Seal				
1/2	858-005	898-005	2 3/16	1/2	1 5/16	0.19
3/4	858-007	898-007	2 13/32	9/16	1 3/32	0.27
1	858-010	898-010	2 5/8	9/16	1 3/32	0.40
1 1/4	858-012	898-012	2 31/32	23/32	1 1/4	0.58
1 1/2	858-015	898-015	3 1/8	23/32	1 11/32	0.67
2**	858-020	898-020	3 5/8	2 7/32	1 19/32	1.03
3†	858-030	898-030	5 1/8	1 3/4	1 11/16	2.49

* THE MAXIMUM WORKING PRESSURE IS 235 PSI AT 73°F.

** THE MAXIMUM WORKING PRESSURE IS 200 PSI AT 73°F.

† THE MAXIMUM WORKING PRESSURE IS 185 PSI AT 73°F.

Union, with Viton® O-Ring Seal*

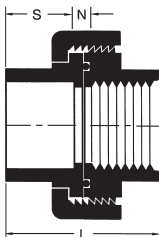
S x FPT

PVC PART NO. 8820

Union, with EPDM O-Ring Seal*

S x FPT

PVC PART NO. 8830



Size	Universal Part Number		L	N	S	Approx. Wt. (Lbs.)
	with Viton O-Ring Seal	with EPDM O-Ring Seal				
1/2	859-005	899-005	2 1/8	5/16	1 5/16	0.18
3/4	859-007	899-007	2 7/16	7/16	1 3/32	0.27
1	859-010	899-010	2 5/8	3/8	1 3/32	0.37
1 1/4 ^(N)		899-012	2 15/16	7/16	1 1/4	0.52
1 1/2	859-015	899-015	3 3/16	7/16	1 11/32	0.62
2**	859-020	899-020	3 21/32	2 1/32	1 19/32	0.98

* THE MAXIMUM WORKING PRESSURE IS 235 PSI AT 73°F.

** THE MAXIMUM WORKING PRESSURE IS 200 PSI AT 73°F.

(N) NOTE: AVAILABLE IN PART NO. PVC 8830 ONLY.

PVC Schedule 40 Pipe

PVC Schedule 40 Pipe - Plain End


 NSF

PVC SCHEDULE 40 (WHITE)			PLAIN END		PVC 1120	ASTM D 1785	
PART NO.	NOM. SIZE	UPC # 611942-	QTY. PER SKID	AVG. OD (IN.)	MIN. WALL (IN.)	MAX WORK PRESSURE AT 23° C OR 73° F	WT. PER 100 FT. (LBS.)
PVC 4005	1/2" x 10'	06658	4500'	.840	.109	600 PSI	15.9
PVC 4005	1/2" x 20'	03922	9000'	.840	.109	600 PSI	15.9
PVC 4007	3/4" x 10'	06661	3500'	1.050	.113	480 PSI	21.1
PVC 4007	3/4" x 20'	03925	7000'	1.050	.113	480 PSI	21.1
PVC 4010	1" x 10'	06664	3000'	1.315	.133	450 PSI	31.3
PVC 4010	1" x 20'	03928	6000'	1.315	.133	450 PSI	31.3
PVC 7100*	1 1/4" x 10'	03945	2120'	1.660	.140	370 PSI	42.4
PVC 7100*	1 1/4" x 20'	03946	4240'	1.660	.140	370 PSI	42.4
PVC 7112*	1 1/2" x 10'	03947	1650'	1.900	.145	330 PSI	51.8
PVC 7112*	1 1/2" x 20'	03948	3300'	1.900	.145	330 PSI	51.8
PVC 7200*	2" x 10'	03949	1110'	2.375	.154	280 PSI	69.5
PVC 7200*	2" x 20'	03950	2220'	2.375	.154	280 PSI	69.5
PVC 4025†	2 1/2" x 20'	04205	1460'	2.875	.203	300 PSI	110.0
PVC 7300*	3" x 10'	03951	1130'	3.500	.216	260 PSI	144.2
PVC 7300*	3" x 20'	03952	1000'	3.500	.216	260 PSI	144.2
PVC 7400†	4" x 10'	03953	670'	4.500	.237	220 PSI	205.5
PVC 7400†	4" x 20'	03954	1340'	4.500	.237	220 PSI	205.5
PVC 7500†	5" x 20'	04837	760'	5.563	.258	190 PSI	272.5
PVC 7600†	6" x 10'	03955	330'	6.625	.280	180 PSI	361.2
PVC 7600†	6" x 20'	03956	660'	6.625	.280	180 PSI	361.2
PVC 7800†	8" x 10'	13087	140'	8.625	.322	160 PSI	543.6
PVC 7800†	8" x 20'	03958	280'	8.625	.322	160 PSI	543.6
PVC 7910†	10" x 20'	03959	220'	10.750	.365	140 PSI	770.7
PVC 7912†	12" x 20'	03961	120'	12.750	.406	130 PSI	1019.0
PVC 7914†	14" x 20'	04862	60'	14.000	.437	130 PSI	1205.0
PVC 7916†	16" x 20'	04918	60'	16.000	.500	130 PSI	1575.0

* Dual Marked ASTM D 1785 & ASTM D 2665.

† Triple Marked ASTM D 1785 & ASTM D 2665 & ASTM F 480.

‡ Dual Marked ASTM D 1785 & ASTM F 480.

NSF Listed. Meets All Requirements of ASTM D 1784 and ASTM D 1785.

Note: When ordering, please specify plain end or bell end.



WARNING

Testing with or use of compressed air or gas in ABS / CPVC / PVC pipe or fittings can result in explosive failures and cause severe injury or death.

- NEVER test with or transport/store compressed air or gas in ABS / CPVC / PVC pipe or fittings.
- NEVER test ABS / CPVC / PVC pipe or fittings with compressed air or gas, or air over water boosters.
- ONLY use ABS / CPVC / PVC pipe or fittings for water or approved chemicals.
- Refer to warnings on PPFA's website and ASTM D 1785.



PVC Schedule 40 Pipe - Bell End*

PVC SCHEDULE 40 (WHITE)			BELL END		PVC 1120		ASTM D 1785	
PART NO.	NOM. SIZE	UPC # 611942	QTY. PER SKID	AVG. OD (IN.)	MIN. WALL (IN.)	MAX WORK PRESSURE AT 23° C OR 73° F	BELL DEPTH (IN.)	WT. PER 100 FT. (LBS.)
PVC 4005B**	1/2" x 10'	04986	4500'	.840	.109	600 PSI	2.00	15.9
PVC 4005B**	1/2" x 20'	03923	9000'	.840	.109	600 PSI	2.00	15.9
PVC 4007B**	3/4" x 10'	04987	3500'	1.050	.113	480 PSI	2.25	21.1
PVC 4007B**	3/4" x 20'	03926	7000'	1.050	.113	480 PSI	2.25	21.1
PVC 4010B**	1" x 10'	04988	3000'	1.315	.133	450 PSI	2.50	31.3
PVC 4010B**	1" x 20'	03929	6000'	1.315	.133	450 PSI	2.50	31.1
PVC 4012B§	1 1/4" x 10'	04989	2120'	1.660	.140	370 PSI	2.75	42.4
PVC 4012B§	1 1/4" x 20'	03930	4240'	1.660	.140	370 PSI	2.75	42.4
PVC 4015B§	1 1/2" x 10'	04990	1650'	1.900	.145	330 PSI	3.00	51.8
PVC 4015B§	1 1/2" x 20'	03931	3300'	1.900	.145	330 PSI	3.00	51.8
PVC 4020B†	2" x 10'	04991	1110'	2.375	.154	280 PSI	4.00	69.5
PVC 4020B†	2" x 20'	03932	2220'	2.375	.154	280 PSI	4.00	69.5
PVC 4025B†	2 1/2" x 20'	04206	1460'	2.875	.203	300 PSI	4.00	110.0
PVC 7300B§	3" x 10'	04853	1130'	3.500	.216	260 PSI	4.00	147.6
PVC 4030B†	3" x 20'	03933	1000'	3.500	.216	260 PSI	4.00	144.2
PVC 7400B§	4" x 10'	04835	670'	4.500	.237	220 PSI	5.00	212.3
PVC 9400B†	4" x 20'	03964	1340'	4.500	.237	220 PSI	5.00	210.6
PVC 7600B§	6" x 10'	04850	760'	6.625	.280	180 PSI	6.50	379.3
PVC 9600B†	6" x 20'	03965	330'	6.625	.280	180 PSI	6.50	373.2
PVC 7800B†	8" x 10'	09903	660'	8.625	.322	160 PSI	7.00	556.9
PVC 9800B†	8" x 20'	03967	140'	8.625	.322	160 PSI	7.00	564.0
PVC 7910B†	10" x 20'	03960	280'	10.750	.365	140 PSI	9.00	781.4
PVC 7912B†	12" x 20'	03962	220'	12.750	.406	130 PSI	10.00	1033.2
PVC 7914B†	14" x 20'	04863	120'	14.000	.437	130 PSI	10.00	1221.8
PVC 7916B†	16" x 20'	04929	60'	16.000	.500	130 PSI	10.00	1594.5

* Bell dimensions meet either ASTM D 2672 or ASTM F 480, depending upon pipe diameter

** ASTM D 1785

‡ Dual Marked ASTM D 1785 & ASTM F 480

§ Dual Marked ASTM D 1785 & ASTM D 2665

† Triple Marked ASTM D 1785 & ASTM D 2665 & ASTM F 480



⚠ WARNING

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AIR/GAS



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- NEVER test ABS / CPVC / PVC pipe or fittings with compressed air or gas, or air over water boosters.
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- Refer to warnings on PPFA's website and ASTM D 1785.

PVC Well Casing

PVC SCHEDULE 40 (WHITE) BELL END WELL CASING PVC 1120 ASTM F 480							
PART NO.	NOM. SIZE	UPC # 611942-	QTY. PER SKID	AVG. OD (IN.)	MIN. WALL (IN.)	BELL DEPTH (IN.)	WT. PER 100 FT. (LBS.)
PVC 4020B	2" x 20'	03932	2220'	2.375	.154	4.00	69.5
PVC 4025B	2 1/2" x 20'	04206	1460'	2.875	.203	4.00	110.0
PVC 4030B	3" x 20'	03933	920'	3.500	.216	4.00	144.2
PVC 9400B	4" x 20'	03964	1340'	4.500	.237	5.00	210.6
PVC 9600B	6" x 20'	03965	660'	6.625	.280	6.50	373.2
PVC 9800B	8" x 20'	03967	280'	8.625	.322	7.00	564.0
PVC 7910B	10" x 20'	03960	160'	10.750	.365	9.00	781.4
PVC 7912B	12" x 20'	03962	120'	12.750	.406	10.00	1033.2
PVC 7914B	14" x 20'	04863	60'	14.000	.437	10.00	1221.8
PVC 7916B	16" x 20'	04929	60'	16.000	.500	10.00	1594.5

PVC SDR Pipe

PR 200		PVC 1120		BELL END		ASTM D 2241		SDR 21	
PART NO.	NOM. SIZE	UPC # 611942-	QTY. PER SKID	AVG. OD (IN.)	MIN. WALL (IN.)	MAX WORK PRESSURE AT 23° C OR 73° F	BELL DEPTH (IN.)	WT. PER 100 FT. (LBS.)	
PVC 23155B	*1½" x 20'	03991	9000'	.840	.062	315 PSI	2.00	10.0	
PVC 20007B	¾" x 10'	10742	3500'	1.050	.060	200 PSI	2.25	11.8	
PVC 20007B	¾" x 20'	03984	7000'	1.050	.060	200 PSI	2.25	11.8	
PVC 20010B	1" x 20'	03986	6000'	1.315	.063	200 PSI	2.50	15.7	
PVC 20012B	1¼" x 20'	03987	4000'	1.660	.079	200 PSI	2.75	25.5	
PVC 20015B	1½" x 20'	03988	3300'	1.900	.090	200 PSI	3.00	32.4	
PVC 20020B	2" x 20'	03989	2200'	2.375	.113	200 PSI	4.00	50.8	
PVC 20025B	2½" x 20'	12976	1460'	2.875	.137	200 PSI	4.00	75.7	
PVC 20030B	3" x 20'	12977	1000'	3.500	.167	200 PSI	4.00	112.4	
PVC 20040B	4" x 20'	12978	1340'	4.500	.214	200 PSI	4.00	185.2	
PVC 20060B	6" x 20'	12979	660'	6.625	.316	200 PSI	6.50	402.6	

*PR 315 / SDR 13.5



WARNING

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- Refer to warnings on PPFA's website and ASTM D 1785.

PVC SDR Pipe

PR 160	PVC 1120	BELL END			ASTM D 2241		SDR 26	
PART NO.	NOM. SIZE	UPC # 611942	QTY. PER SKID	AVG. OD (IN.)	MIN. WALL (IN.)	MAX WORK PRESSURE AT 23° C OR 73° F	BELL DEPTH (IN.)	WT. PER 100 FT. (LBS.)
PVC 16012B	1 1/4" x 20'	042111	4000'	.660	.064	160 PSI	2.75	21.5
PVC 16015B	1 1/2" x 20'	042101	3300'	.900	.073	160 PSI	3.00	26.6
PVC 16020B	2" x 20'	042122	2220'	.375	.091	160 PSI	4.00	41.4
PVC 16025B	2 1/2" x 20'	129802	1460'	.875	.110	160 PSI	4.00	61.4
PVC 16030B	3" x 20'	042223	1000'	.500	.135	160 PSI	4.00	90.8
PVC 16040B	4" x 20'	129814	1340'	.500	.173	160 PSI	4.00	149.8
PVC 16060B	6" x 20'	129826	660'	.625	.255	160 PSI	6.50	325.0

Note: When ordering, please specify plain end or bell end.



WARNING

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AIR/GAS

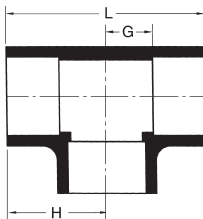


- NEVER test with or transport/store compressed air or gas in ABS / CPVC / PVC pipe or fittings.
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Tee

S x S x S

PVC PART NO. 2400

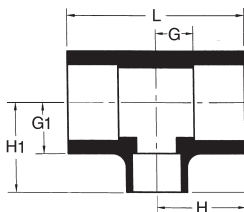


Size	Universal Part Number	L	H	G	Approx. Wt. (Lbs)
1/2	401-005	2 1/2	1 1/4	1/2	0.067
3/4	401-007	3	1 1/2	9/16	0.079
1	401-010	3 1/8	1 9/16	1 1/16	0.136
1 1/4	401-012	4 1/4	2 1/8	7/8	0.310
1 1/2	401-015	4 5/8	2 5/16	1	0.340
2	401-020	4 13/16	2 13/32	1 1/4	0.412
2 1/2	401-025	6 9/16	3 9/32	1 1/2	0.944
3	401-030	7 5/8	3 13/16	1 13/16	1.361
4	401-040	8 3/4	4 3/8	2 5/16	2.212
6	401-060	14	7	3 1/2	7.158
8	401-080	17 1/8	8 9/16	4 1/2	12.332

Reducing Tee

S x S x S

PVC PART NO. 2400



Size	Universal Part Number	L	H	G	H1	G1	Apprx. Wt. (Lbs.)
3/4 x 3/4 x 1/2	401-101	3 1/8	1 9/16	9/16	1 3/8	5/8	0.106
1 x 1 x 1/2	401-130	3 3/8	1 11/16	9/16	1 5/8	7/8	0.134
1 x 1 x 3/4	401-131	3 9/16	1 25/32	5/8	1 13/16	1 3/16	0.148
1 1/4 x 1 1/4 x 1/2	401-166	3 1/2	1 3/4	1/2	1 5/8	7/8	0.196
1 1/4 x 1 1/4 x 3/4	401-167	3 13/16	1 29/32	1 1/16	2	1	0.226
1 1/4 x 1 1/4 x 1	401-168	4 1/16	2 1/32	1 3/16	2 1/8	1	0.256
1 1/2 x 1 1/2 x 1/2	401-209	3 3/4	1 7/8	9/16	1 7/8	1 1/8	0.234
1 1/2 x 1 1/2 x 3/4	401-210	3 15/16	1 31/32	2 1/32	2	1	0.256
1 1/2 x 1 1/2 x 1	401-211	4 1/4	2 1/8	1 3/16	2 7/32	1 3/32	0.294
2 x 2 x 3/4	401-248	4 1/16	2 1/32	2 1/32	2 3/8	1 3/8	0.320
2 x 2 x 1	401-249	4 3/8	2 3/16	1 3/16	2 17/32	1 3/8	0.383
2 x 2 x 1 1/4	401-250	4 3/4	2 3/8	1	2 5/8	1 3/8	0.436
2 x 2 x 1 1/2	401-251	5	2 1/2	1 1/8	2 11/16	1 3/8	0.479
2 1/2 x 2 1/2 x 3/4	401-288	6 9/16	3 1/4	1 1/2	2 7/16	1 11/16	0.841
2 1/2 x 2 1/2 x 1	401-289	6 9/16	3 1/4	1 1/2	2 5/8	1 11/16	0.857
2 1/2 x 2 1/2 x 1 1/4	401-290	6 9/16	3 1/4	1 1/2	2 5/8	1 11/16	0.857
2 1/2 x 2 1/2 x 1 1/2	401-291	6 9/16	3 1/4	1 1/2	2 13/16	1 11/16	0.877
2 1/2 x 2 1/2 x 2	401-292	6 9/16	3 1/4	1 1/2	2 7/8	1 11/16	0.881
3 x 3 x 1/2	401-333	7 3/8	3 3/4	1 7/8	2 5/8	2	1.223
3 x 3 x 3/4	401-334	7 3/8	3 3/4	1 7/8	2 5/8	1 7/8	1.221
3 x 3 x 1	401-335	7 3/8	3 3/4	1 7/8	2 7/8	2	1.236

Reducing Tee

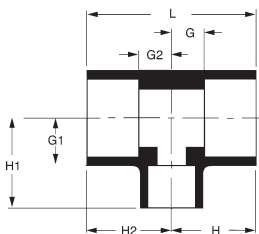
S x S x S

PVC PART NO. 2400 (Continued)

Size	Universal Part Number	L	H	G	H1	G1	Apprx. Wt. (Lbs.)
3 x 3 x 1 ¹ / ₄	401-336	7 ³ / ₈	3 ³ / ₄	1 ⁷ / ₈	2 ⁷ / ₈	2	1.234
3 x 3 x 2	401-338	6 1 ¹ / ₁₆	3 1 ¹ / ₃₂	1 1 ¹ / ₃₂	3 ³ / ₁₆	1 1 ³ / ₁₆	1.100
3 x 3 x 1 ¹ / ₂	401-337	7 ³ / ₈	3 ³ / ₄	1 ⁷ / ₈	3	1 ⁷ / ₈	2.483
4 x 4 x ³ / ₄	401-416	8 ⁵ / ₈	4 ³ / ₈	2 ³ / ₈	3 ¹ / ₄	2 ¹ / ₂	2.019
4 x 4 x 1	401-417	8 ⁵ / ₈	4 ³ / ₈	2 ³ / ₈	3 ³ / ₈	2 ¹ / ₂	2.039
4 x 4 x 1 ¹ / ₄	401-418	8 ⁵ / ₈	4 ³ / ₈	2 ³ / ₈	3 ¹ / ₂	2 ¹ / ₂	2.029
4 x 4 x 1 ¹ / ₂	401-419	8 ⁵ / ₈	4 ³ / ₈	2 ³ / ₈	3 ⁵ / ₈	2 ¹ / ₂	2.036
4 x 4 x 2	401-420	6 1 ³ / ₁₆	3 1 ³ / ₃₂	1 1 ¹ / ₃₂	3 ⁷ / ₈	2 ¹ / ₂	1.594
4 x 4 x 3	401-422	8 1 ¹ / ₈	4 1 ¹ / ₁₆	2	4 ³ / ₈	2 ³ / ₈	1.982
6 x 6 x 4	401-532	12 1 ¹ / ₁₆	6 1 ¹ / ₃₂	2 1 ⁷ / ₃₂	5 ⁵ / ₈	3 ⁹ / ₁₆	4.900

Reducing Tee

S x S x S

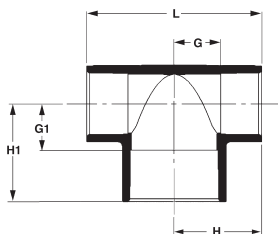
PVC PART NO. 2400


Size	Universal Part Number	L	H	G	H1	G1	H2	G2	Apprx. Wt. (Lbs.)
³ / ₄ x 1 ¹ / ₂ x 1 ¹ / ₂	401-094	2 ⁵ / ₈	1 ¹ / ₄	⁵ / ₈	1 ⁵ / ₁₆	⁹ / ₁₆	1 ³ / ₈	⁵ / ₈	0.106
1 x ³ / ₄ x 1 ¹ / ₂	401-124	3	1 ⁵ / ₁₆	¹ / ₂	1 ¹ / ₂	1 ³ / ₁₆	1 ⁹ / ₁₆	1 ¹ / ₁₆	0.122
1 x ³ / ₄ x ³ / ₄	401-125	3 ¹ / ₈	1 ¹⁵ / ₃₂	³ / ₄	1 ¹⁷ / ₃₂	1 ³ / ₁₆	1 ¹⁹ / ₃₂	2 ³ / ₃₂	0.130
1 x ³ / ₄ x 1	401-126	3 ¹ / ₄	1 ⁵ / ₈	1	1 1 ¹ / ₁₆	1 ³ / ₁₆	1 ⁹ / ₁₆	1 ¹ / ₁₆	0.154
1 ¹ / ₄ x 1 x 1 ¹ / ₂	401-156	3 ⁷ / ₁₆	1 ¹³ / ₁₆	⁷ / ₈	1 1 ¹ / ₁₆	1	1 ⁹ / ₁₆	1 ¹ / ₁₆	0.185
1 ¹ / ₄ x 1 x ³ / ₄	401-157	3 ¹ / ₂	1 ¹³ / ₁₆	⁷ / ₈	1 ³ / ₄	1	1 1 ¹ / ₁₆	1 ³ / ₁₆	0.189
1 ¹ / ₄ x 1 x 1	401-158	3 1 ¹ / ₁₆	1 ¹³ / ₁₆	⁷ / ₈	1 ⁷ / ₈	1	1 ⁷ / ₈	1	0.216
1 ¹ / ₂ x 1 ¹ / ₄ x 1 ¹ / ₂	401-199	4	1 ¹³ / ₁₆	⁷ / ₈	1 1 ³ / ₁₆	1 ¹ / ₈	2 ¹ / ₈	1	0.255
2 x 1 ¹ / ₂ x 1 ¹ / ₂	401-241	4 1 ³ / ₁₆	2 ³ / ₈	1 ⁹ / ₃₂	2 1 ⁵ / ₃₂	1 ³ / ₈	2 ⁷ / ₁₆	1 ⁹ / ₃₂	0.440

Bullhead Tee

S x S x S

PVC PART NO. 2400

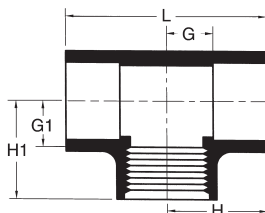


Size	Universal Part Number	L	H	G	H1	G1	Approx. Wt. (Lbs.)
1/2 x 1/2 x 3/4	401-074	2 7/8	1 7/16	1 1/16	1 17/32	1 17/32	0.082
3/4 x 3/4 x 1	401-102	3 5/8	1 13/16	1 3/16	1 25/32	2 1/32	0.134
1 x 1 x 1 1/4	401-132	3 11/16	1 13/16	1	1 13/16	7/8	0.196
1 x 1 x 1 1/2	401-133	4	2	1 1/8	2 1/8	1	0.231
1 1/2 x 1 1/2 x 2	401-213	5	2 1/2	1 3/8	2 7/16	1 1/4	0.415

Tee

S x S x FPT

PVC PART NO. 2401

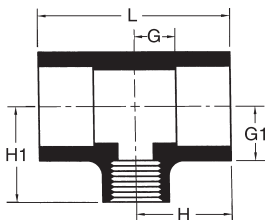


Size	Universal Part Number	L	H	G	H1	G1	Approx. Wt. (Lbs.)
1/2	402-005	2 9/16	1 9/32	1 7/32	1 9/32	1/2	0.077
3/4	402-007	3 5/16	1 21/32	2 1/32	1 13/32	5/8	0.130
1	402-010	3 13/16	1 29/32	2 5/32	1 29/32	7/8	0.184
1 1/4	402-012	4 15/32	2 1/4	1	2	1	0.292
1 1/2	402-015	4 7/8	2 7/16	1 1/8	2 7/16	1 5/32	0.408
2	402-020	5 1/2	2 3/4	1 3/8	2 7/16	1 5/8	0.535

Reducing Tee

S x S x FPT

PVC PART NO. 2401

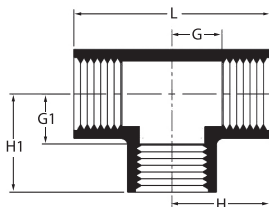


Size	Universal Part Number	L	H	G	H1	G1	Approx. Wt. (Lbs.)
3/4 x 3/4 x 1/2	402-101	3 1/8	1 9/16	9/16	1 13/32	5/8	0.122
1 x 1 x 1/2	402-130	3 5/16	1 21/32	1 7/32	1 17/32	25/32	0.142
1 x 1 x 3/4	402-131	3 9/16	1 25/32	2 1/32	1 3/4	1 1/32	0.158
1 1/4 x 1 1/4 x 1/2	402-166	3 9/16	1 25/32	1 7/32	1 23/32	1	0.202
1 1/4 x 1 1/4 x 3/4	402-167	3 13/16	1 29/32	2 1/32	1 15/16	1 1/4	0.232
1 1/4 x 1 1/4 x 1	402-168	4 1/8	2 1/16	1 3/16	2 1/8	1 1/8	0.280
1 1/2 x 1 1/2 x 1/2	402-209	3 1/2	1 3/4	1 5/32	1 13/16	1 1/16	0.230
1 1/2 x 1 1/2 x 3/4	402-210	3 29/32	1 31/32	2 1/32	1 13/16	1	0.256
1 1/2 x 1 1/2 x 1	402-211	4 1/4	2 1/8	1 3/16	2 1/4	1 1/4	0.326
2 x 2 x 1/2	402-247	4 7/8	2 3/8	1 1/4	2	1 3/8	0.419
2 x 2 x 3/4	402-248	4 7/8	2 3/8	1 1/4	2 1/8	1 3/8	0.414
2 x 2 x 1	402-249	4 3/8	2 3/16	1 3/16	2 3/16	1 5/16	0.420
2 x 2 x 1 1/2	402-251	4 7/8	2 3/8	1 1/4	2 3/8	1 3/8	0.455
2 1/2 x 2 1/2 x 3/4	402-288	6 9/16	3 1/4	1 1/2	2 7/16	1 11/16	0.874
2 1/2 x 2 1/2 x 1	402-289	6 9/16	3 1/4	1 1/2	2 5/8	1 11/16	0.887
2 1/2 x 2 1/2 x 1 1/2	402-291	6 9/16	3 1/4	1 1/2	2 5/8	1 11/16	0.913

Tee

FPT x FPT x FPT

PVC PART NO. 2402

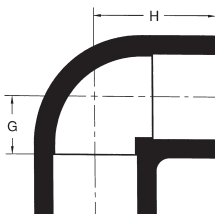


Size	Universal Part Number	L	H	G	H1	G1	Approx. Wt. (Lbs.)
1/2	405-005	2 1/2	1 1/4	1/2	1 1/4	1/2	0.700
3/4	405-007	2 5/8	1 3/8	5/8	1 3/8	5/8	0.990

90 Degree Elbow

S x S

PVC PART NO. 2300

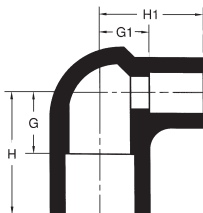


Size	Universal Part Number	H	G	Approx. Wt. (Lbs)
1/2	406-005	1 1/4	1/2	0.048
3/4	406-007	1 5/16	9/16	0.055
1	406-010	1 9/32	1 1/16	0.100
1 1/4	406-012	2 1/8	7/8	0.200
1 1/2	406-015	2 1/8	1	0.256
2	406-020	2 7/16	1 9/32	0.316
2 1/2	406-025	3 1/4	1 1/2	0.770
3	406-030	3 13/16	1 13/16	1.040
4	406-040	4 3/8	2 5/16	1.722
6	406-060	6 15/16	3 7/16	5.234
8	406-080	8 1/2	4 1/2	9.139

Reducing 90 Degree Elbow

S x S

PVC PART NO. 2300

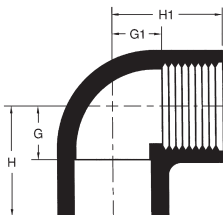


Size	Universal Part Number	H	G	H1	G1	Approx. Wt. (Lbs.)
$\frac{3}{4} \times \frac{1}{2}$	406-101	$1\frac{17}{32}$	$\frac{17}{32}$	$1\frac{9}{32}$	$\frac{17}{32}$	0.070
$1 \times \frac{1}{2}$	406-130	$1\frac{11}{16}$	$\frac{9}{16}$	$1\frac{9}{16}$	$\frac{13}{16}$	0.116
$1 \times \frac{3}{4}$	406-131	$1\frac{25}{32}$	$\frac{21}{32}$	$1\frac{25}{32}$	$\frac{25}{32}$	0.128

90 Degree Elbow

S x FPT

PVC PART NO. 2301

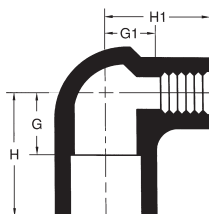


Size	Universal Part Number	H	G	H1	G1	Approx. Wt. (Lbs.)
$\frac{1}{2}$	407-005	$1\frac{1}{4}$	$\frac{1}{2}$	$1\frac{1}{4}$	$\frac{15}{32}$	0.064
$\frac{3}{4}$	407-007	$\frac{9}{16}$	$\frac{9}{16}$	$1\frac{11}{32}$	$\frac{9}{16}$	0.100
1	407-010	$1\frac{13}{16}$	$\frac{23}{32}$	$1\frac{7}{8}$	$\frac{7}{8}$	0.166
$1\frac{1}{4}$	407-012	$2\frac{5}{32}$	$\frac{15}{16}$	$2\frac{1}{4}$	$1\frac{1}{4}$	0.293
$1\frac{1}{2}$	407-015	$2\frac{9}{32}$	1	$2\frac{5}{16}$	$1\frac{1}{4}$	0.355
2	407-020	$2\frac{11}{16}$	$\frac{15}{16}$	$2\frac{1}{2}$	$\frac{15}{16}$	0.534

Reducing 90 Degree Elbow

S x FPT

PVC PART NO. 2301

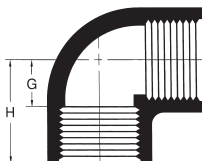


Size	Universal Part Number	H	G	H1	G1	Approx. Wt. (Lbs.)
$\frac{3}{4} \times \frac{1}{2}$	407-101	$1\frac{1}{2}$	$\frac{1}{2}$	$1\frac{3}{8}$	$\frac{19}{32}$	0.102
$1 \times \frac{1}{2}$	407-130	$1\frac{5}{8}$	$\frac{1}{2}$	$1\frac{17}{32}$	$\frac{3}{4}$	0.126
$1 \times \frac{3}{4}$	407-131	$1\frac{25}{32}$	$\frac{21}{32}$	$1\frac{19}{32}$	$\frac{27}{32}$	0.135

90 Degree Elbow

FPT x FPT

PVC PART NO. 2302

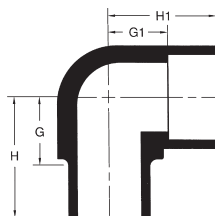


Size	Universal Part Number	H	G	Approx. Wt. (Lbs)
$\frac{1}{2}$	408-005	$1\frac{5}{16}$	$1\frac{7}{32}$	0.070
$\frac{3}{4}$	408-007	$1\frac{15}{32}$	$\frac{5}{8}$	0.098
1	408-010	$1\frac{13}{16}$	$1\frac{3}{16}$	0.164
2	408-020	$2\frac{3}{8}$	$1\frac{1}{4}$	0.408

90 Degree Street Elbow

SPG x S

PVC PART NO. 2304

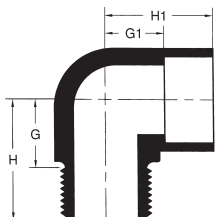


Size	Universal Part Number	H	G	H1	G1	Approx. Wt. (Lbs.)
1/2	409-005	1 1/2	3/4	1 5/32	1 3/32	0.050
3/4	409-007	1 19/32	1 3/16	1 3/8	9/16	0.077
1	409-010	1 15/16	1	1 13/16	1 1/16	0.127
1 1/4	409-012	2 7/16	1 7/32	2 3/16	1 5/16	0.225
1 1/2	409-015	2 7/16	1 1/4	2 7/16	1 5/32	0.292
2	409-020	2 23/32	1 15/32	2 3/4	1 3/8	0.426

90 Degree Street Elbow

MPT x S

PVC PART NO. 2306

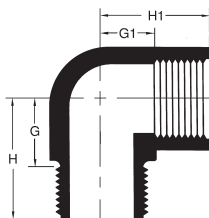


Size	Universal Part Number	H	G	H1	G1	Approx. Wt. (Lbs.)
1/2	410-005	1 1/2	3/4	1 5/32	1 3/32	0.048
3/4	410-007	1 17/32	2 5/32	1 3/8	9/16	0.076
1	410-010	2 1/8	1	1 13/16	1 1/16	0.135
1 1/4	410-012	2 1/4	1 1/4	2 3/16	1 5/16	0.219
1 1/2	410-015	2 13/32	1 13/32	2 5/16	1	0.276
2	410-020	2 17/32	1 17/32	2 25/32	1 3/8	0.436

90 Degree Street Elbow

MPT x FPT

PVC PART NO. 2307

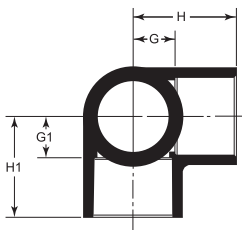


Size	Universal Part Number	H	G	H1	G1	Approx. Wt. (Lbs.)
1/2	412-005	1 15/32	23/32	1 1/8	3/8	0.052
3/4	412-007	1 19/32	23/32	1 5/16	9/16	0.080
1 1/4	412-012	1 15/16	1	1 15/16	7/8	0.162
1 1/2	412-015	2 1/8	1 1/4	2 1/8	1	0.217
2	412-020	2 5/16	1 3/8	2 3/8	1 1/4	0.317

Side Outlet Elbow

S x S x S

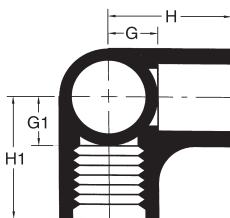
PVC PART NO. 2510



Size	Universal Part Number	G	H	G1	H1	Approx. Wt. (Lbs.)
1/2	413-005	1/2	1 1/4	1/2	1 1/4	0.062
3/4	413-007	9/16	1 3/8	9/16	1 3/8	0.090
1	413-010	1 1/16	1 9/16	1 1/16	1 9/16	0.147

Side Outlet Elbow

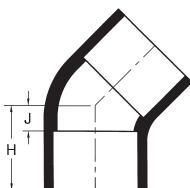
S x S x FPT

PVC PART NO. 2520


Size	Universal Part Number	H	G	H1	G1	Approx. Wt. (Lbs.)
$\frac{3}{4}$ X $\frac{3}{4}$ X $\frac{1}{2}$	414-101	$1\frac{9}{16}$	$\frac{9}{16}$	$1\frac{1}{2}$	$\frac{3}{4}$	0.112
$\frac{3}{4}$ X $\frac{3}{4}$ X $\frac{3}{4}$	414-007	$1\frac{9}{16}$	$\frac{9}{16}$	$1\frac{15}{32}$	$\frac{21}{32}$	0.096

45 Degree Elbow

S x S

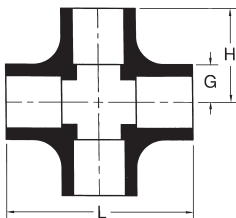
PVC PART NO. 2309


Size	Universal Part Number	H	J	Approx. Wt. (Lbs.)
$\frac{1}{2}$	417-005	$1\frac{1}{16}$	$\frac{5}{16}$	0.040
$\frac{3}{4}$	417-007	$1\frac{1}{16}$	$\frac{11}{32}$	0.047
1	417-010	$1\frac{7}{16}$	$\frac{5}{16}$	0.120
$1\frac{1}{4}$	417-012	$1\frac{3}{4}$	$\frac{1}{2}$	0.176
$1\frac{1}{2}$	417-015	$1\frac{29}{32}$	$\frac{19}{32}$	0.216
2	417-020	$1\frac{31}{32}$	$\frac{21}{32}$	0.338
$2\frac{1}{2}$	417-025	$2\frac{7}{16}$	$1\frac{1}{16}$	0.556
3	417-030	$2\frac{27}{32}$	$\frac{27}{32}$	0.835
4	417-040	$3\frac{3}{32}$	$1\frac{1}{32}$	1.296
6	417-060	$5\frac{1}{8}$	$1\frac{5}{8}$	3.878
8	417-080	$6\frac{3}{4}$	$2\frac{1}{4}$	7.912

Cross

SxSxSxS

PVC PART NO. 2410

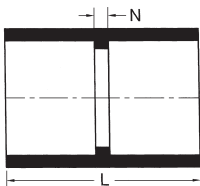


Size	Universal Part Number	L	H	G	Approx. Wt. (Lbs)
1/2	420-005	2 ⁹ / ₁₆	1 ⁹ / ₃₂	1 ⁷ / ₃₂	0.080
3/4	420-007	3 ⁵ / ₁₆	1 ²¹ / ₃₂	2 ¹ / ₃₂	0.152
1	420-010	3 ⁷ / ₈	1 ¹⁵ / ₁₆	1 ³ / ₁₆	0.222
1 1/4	420-012	4 1/2	2 1/4	1	0.372
1 1/2	420-015	4 ⁷ / ₈	2 ⁷ / ₁₆	1 ¹ / ₈	0.450
2	420-020	5 1/2	2 ³ / ₄	1 ³ / ₈	0.678

Coupling

SxS

PVC PART NO. 2100

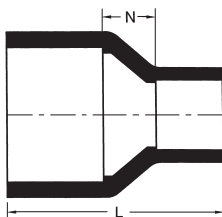


Size	Universal Part Number	L	N	Approx. Wt. (Lbs)
1/2	429-005	1 ⁷ / ₈	1/8	0.028
3/4	429-007	1 ¹¹ / ₁₆	3/32	0.038
1	429-010	2 ³ / ₃₂	3/32	0.067
1 1/4	429-012	2 ⁵ / ₈	1/8	0.136
1 1/2	429-015	2 ³ / ₄	1/8	0.116
2	429-020	2 ⁷ / ₈	1/8	0.165
2 1/2	429-025	3 ²⁵ / ₃₂	3/16	0.444
3	429-030	4 ¹ / ₃₂	3/16	0.786
4	429-040	4 ³ / ₄	3/16	0.966
6	429-060	6 ⁹ / ₃₂	9/32	2.218
8	429-080	8 ¹¹ / ₃₂	1/4	4.370

Reducing Coupling

S x S

PVC PART NO. 2100

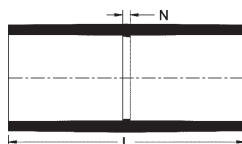


Size	Universal Part Number	L	N	Approx. Wt. (Lbs)
$\frac{3}{4} \times \frac{1}{2}$	429-101	$1\frac{7}{8}$	$\frac{1}{8}$	0.052
$1 \times \frac{3}{4}$	429-131	$2\frac{1}{4}$	$\frac{1}{8}$	0.080

Deep Socket Coupling

S x S

PVC PART NO. 2100 D

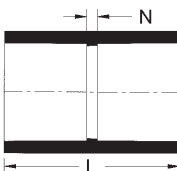


Size	Universal Part Number	L	N	Approx. Wt. (Lbs)
$\frac{1}{2}$	479-005	$2\frac{7}{8}$	$\frac{1}{8}$	0.060
$\frac{3}{4}$	479-007	3	$\frac{7}{32}$	0.072
1	479-010	$3\frac{5}{8}$	$\frac{1}{8}$	0.141

Nested Coupling

ALL SOC / SLIP

PVC PART NO. 2100 N



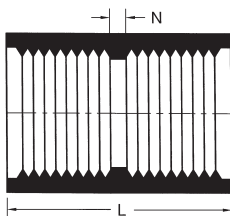
Size	Universal Part Number	L	N	Approx. Wt. (Lbs)
$\frac{1}{2}^*$	477-005	$1\frac{1}{2}$	$\frac{3}{32}$	0.024
$\frac{3}{4}^{**}$	477-007	$1\frac{7}{8}$	$\frac{1}{8}$	0.043
1^{***}	477-010	$1\frac{7}{8}$	$\frac{1}{8}$	0.078

* Goes over $\frac{1}{2}$ " pipe or inside $\frac{3}{4}$ " socket** Goes over $\frac{3}{4}$ " pipe or inside 1" socket*** Goes over 1" pipe or inside $1\frac{1}{4}$ " socket

Coupling

FPT x FPT

PVC PART NO. 2102

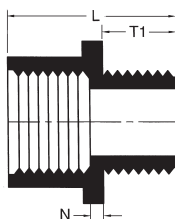


Size	Universal Part Number	L	N	Approx. Wt. (Lbs)
1/2	430-005	1 5/8	7/32	0.039
3/4	430-007	1 3/4	11/32	0.052

Riser Extension

FPT x MPT

PVC PART NO. 2103

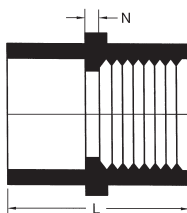


Size	Universal Part Number	L	N	T1	Approx. Wt. (Lbs)
1/2 X 1/2	434-005	2 1/16	9/16	3/4	0.042

Female Adapter

S x FPT

PVC PART NO. 2101

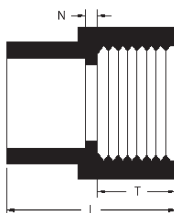


Size	Universal Part Number	L	N	Approx. Wt. (Lbs)
1/2	435-005	1 ²⁷ / ₃₂	1/8	0.053
3/4	435-007	2 ³ / ₃₂	1/16	0.067
1	435-010	2 ³ / ₃₂	1/16	0.108
1 1/4	435-012	2 ⁵ / ₈	1/8	0.164
1 1/2	435-015	2 ⁷ / ₁₆	5/32	0.148
2	435-020	2 ³ / ₈	1/8	0.186
2 1/2	435-025	3 ¹⁷ / ₃₂	3/16	0.440
3	435-030	3 ¹³ / ₁₆	3/16	0.604
4	435-040	3 ¹⁵ / ₁₆	3/16	0.884

Reducing Female Adapter

S x FPT

PVC PART NO. 2104

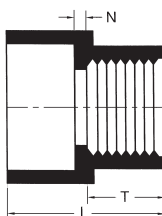


Size	Universal Part Number	L	N	T	Approx. Wt. (Lbs)
1/2 X 3/4	435-074	1 ²⁵ / ₃₂	3/32	1	0.053

Reducing Female Adapter

S x FPT

PVC PART NO. 2101

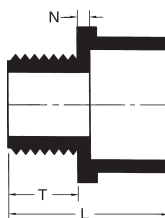


Size	Universal Part Number	L	N	T	Approx. Wt. (Lbs)
$\frac{3}{4}$ X $\frac{1}{2}$	435-101	2	$\frac{1}{8}$	$\frac{7}{8}$	0.059
$\frac{3}{4}$ X 1	435-102	$1\frac{15}{16}$	$\frac{3}{32}$	$1\frac{1}{8}$	0.090
1 X $\frac{3}{4}$	435-131	$2\frac{3}{32}$	$\frac{5}{32}$	$1\frac{13}{16}$	0.075

Male Adapter

MPT x S

PVC PART NO. 2109

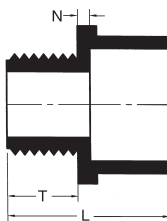


Size	Universal Part Number	L	N	T	Approx. Wt. (Lbs)
$\frac{1}{2}$	436-005	$1\frac{19}{32}$	$\frac{5}{32}$	$\frac{11}{16}$	0.029
$\frac{3}{4}$	436-007	$1\frac{5}{8}$	$\frac{5}{32}$	$\frac{23}{32}$	0.037
1	436-010	$2\frac{3}{16}$	$\frac{3}{16}$	$\frac{7}{8}$	0.080
$1\frac{1}{4}$	436-012	$2\frac{7}{16}$	$\frac{3}{16}$	1	0.122
$1\frac{1}{2}$	436-015	$2\frac{7}{16}$	$\frac{3}{16}$	$\frac{15}{16}$	0.144
2	436-020	$2\frac{21}{32}$	$\frac{7}{32}$	$1\frac{1}{32}$	0.234
$2\frac{1}{2}$	436-025	$3\frac{19}{32}$	$\frac{7}{32}$	$1\frac{5}{8}$	0.388
3	436-030	$3\frac{7}{8}$	$\frac{7}{32}$	$1\frac{15}{32}$	0.546
4	436-040	$3\frac{31}{32}$	$\frac{1}{4}$	$1\frac{11}{16}$	0.820
6	436-060	$5\frac{3}{4}$	$2\frac{1}{32}$	$1\frac{9}{16}$	2.114

Reducing Male Adapter

MPT x S

PVC PART NO. 2110

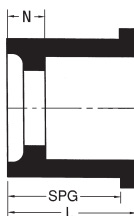


Size	Universal Part Number	L	N	T	Approx. Wt. (Lbs)
1/2 x 3/4	436-074	1 5/8	5/32	3/4	0.036
3/4 x 1/2	436-101	1 5/8	1/8	3/4	0.031
3/4 x 1	436-102	2 1/16	3/16	3/4	0.065
1 x 3/4	436-131	2 1/8	0	1 1/8	0.061
1 x 1 1/4	436-132	2 11/32	7/32	7/8	0.112
1 1/4 x 1	436-168	2 3/8	3/16	1	0.107
1 1/4 x 1 1/2	436-169	2 1/2	3/16	1	0.152
1 1/2 x 1 1/4	436-212	2 13/32	7/32	1 5/16	0.132
1 1/2 x 2	436-213	2 9/16	7/32	1 5/16	0.207
2 x 1 1/2	436-251	2 9/16	1/4	1 1/32	0.192

Reducer Bushing, Flush Style

SPG x S

PVC PART NO. 2107

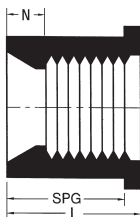


Size	Universal Part Number	L	SPG	N	Approx. Wt. (Lbs)
$\frac{3}{4} \times \frac{1}{2}$	437-101	$1\frac{1}{32}$	$\frac{25}{32}$	$\frac{1}{8}$	0.023
$1 \times \frac{1}{2}$	437-130	$1\frac{3}{16}$	$\frac{15}{16}$	$\frac{9}{32}$	0.052
$1 \times \frac{3}{4}$	437-131	$1\frac{3}{16}$	$\frac{15}{16}$	$\frac{3}{16}$	0.038
$1\frac{1}{4} \times \frac{3}{4}$	437-167	$1\frac{1}{2}$	$1\frac{1}{4}$	$\frac{1}{2}$	0.112
$1\frac{1}{4} \times 1$	437-168	$1\frac{9}{16}$	$1\frac{1}{4}$	$\frac{7}{16}$	0.069
$1\frac{1}{2} \times \frac{1}{2}$	437-209	$1\frac{15}{16}$	$\frac{15}{32}$	$\frac{23}{32}$	0.112
$1\frac{1}{2} \times \frac{3}{4}$	437-210	$1\frac{1}{2}$	$1\frac{3}{16}$	$\frac{1}{2}$	0.118
$1\frac{1}{2} \times 1$	437-211	$1\frac{1}{2}$	$\frac{15}{32}$	$1\frac{1}{32}$	0.114
$1\frac{1}{2} \times 1\frac{1}{4}$	437-212	$1\frac{1}{2}$	$1\frac{3}{16}$	$\frac{1}{4}$	0.062
$2 \times \frac{3}{4}$	437-248	$1\frac{19}{32}$	$1\frac{7}{32}$	$1\frac{9}{32}$	0.164
2×1	437-249	$1\frac{5}{8}$	$1\frac{7}{32}$	$\frac{1}{2}$	0.170
$2 \times 1\frac{1}{4}$	437-250	$1\frac{5}{8}$	$1\frac{1}{4}$	$\frac{3}{8}$	0.205
$2 \times 1\frac{1}{2}$	437-251	$1\frac{5}{8}$	$1\frac{7}{32}$	$\frac{15}{32}$	0.148
$2\frac{1}{2} \times 2$	437-292	$2\frac{5}{32}$	$1\frac{3}{4}$	$\frac{25}{32}$	0.270
3×1	437-335	$2\frac{7}{16}$	2	$1\frac{17}{32}$	0.459
3×2	437-338	$2\frac{9}{32}$	$1\frac{7}{8}$	$\frac{29}{32}$	0.497
$3 \times 2\frac{1}{2}$	437-339	$2\frac{9}{32}$	$1\frac{7}{8}$	$1\frac{7}{32}$	0.420
4×2	437-420	$2\frac{5}{16}$	$2\frac{1}{16}$	$\frac{15}{16}$	0.888
4×3	437-422	$2\frac{11}{32}$	$2\frac{1}{16}$	$\frac{3}{8}$	0.736
6×4	437-532	$3\frac{3}{8}$	3	$1\frac{11}{32}$	2.001
8×4	437-582	$4\frac{11}{16}$	$4\frac{1}{16}$	$2\frac{5}{8}$	3.712
8×6	437-585	$4\frac{11}{16}$	$4\frac{1}{16}$	$1\frac{5}{8}$	3.852

Reducer Bushing, Flush Style

SPG x FPT

PVC PART NO. 2108

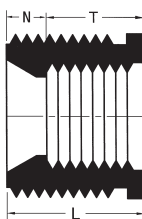


Size	Universal Part Number	L	SPG	N	Approx. Wt. (Lbs)
$\frac{3}{4} \times \frac{1}{2}$	438-101	$1\frac{1}{16}$	$\frac{25}{32}$	$\frac{9}{32}$	0.029
$1 \times \frac{1}{2}$	438-130	$1\frac{3}{16}$	$\frac{15}{16}$	$\frac{7}{16}$	0.053
$1 \times \frac{3}{4}$	438-131	$1\frac{3}{16}$	$\frac{15}{16}$	$\frac{15}{32}$	0.042
$1\frac{1}{4} \times \frac{1}{2}$	438-166	$1\frac{9}{16}$	$1\frac{1}{4}$	$\frac{7}{8}$	0.120
$1\frac{1}{4} \times \frac{3}{4}$	438-167	$1\frac{9}{16}$	$1\frac{1}{4}$	$\frac{13}{16}$	0.115
$1\frac{1}{4} \times 1$	438-168	$1\frac{9}{16}$	$1\frac{1}{4}$	$\frac{9}{16}$	0.092
$1\frac{1}{2} \times \frac{1}{2}$	438-209	$1\frac{11}{16}$	$\frac{15}{16}$	$\frac{11}{32}$	0.107
$1\frac{1}{2} \times \frac{3}{4}$	438-210	$1\frac{11}{16}$	$\frac{15}{16}$	$\frac{13}{32}$	0.163
$1\frac{1}{2} \times 1$	438-211	$1\frac{23}{32}$	$\frac{15}{16}$	$\frac{3}{4}$	0.150
$1\frac{1}{2} \times 1\frac{1}{4}$	438-212	$1\frac{23}{32}$	$\frac{15}{16}$	$\frac{23}{32}$	0.100
$2 \times \frac{1}{2}$	438-247	$1\frac{25}{32}$	$\frac{13}{8}$	$\frac{11}{32}$	0.214
$2 \times \frac{3}{4}$	438-248	$1\frac{25}{32}$	$\frac{13}{8}$	1	0.221
2×1	438-249	$1\frac{25}{32}$	$\frac{13}{8}$	$\frac{3}{4}$	0.225
$2 \times 1\frac{1}{2}$	438-251	$1\frac{13}{16}$	$\frac{13}{8}$	$\frac{25}{32}$	0.185
3×2	438-338	$2\frac{9}{32}$	$1\frac{7}{8}$	$\frac{17}{32}$	0.638
$3 \times 2\frac{1}{2}$	438-339	$2\frac{5}{16}$	$1\frac{29}{32}$	$\frac{27}{32}$	0.490
4×2	438-420	$2\frac{23}{32}$	$2\frac{5}{16}$	$1\frac{3}{4}$	1.164
4×3	438-422	$2\frac{23}{32}$	$2\frac{5}{16}$	$1\frac{3}{32}$	0.910
6×4	438-532	4	$3\frac{1}{2}$	$2\frac{1}{4}$	1.976

Reducer Bushing

MPT x FPT

PVC PART NO. 2112

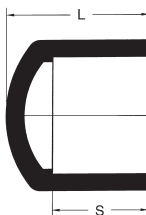


Size	Universal Part Number	L	T	N	Approx. Wt. (Lbs)
$\frac{3}{4}$ X $\frac{1}{2}$	439-101	1	$\frac{3}{4}$	$\frac{1}{4}$	0.022
1 X $\frac{1}{2}$	439-130	$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{2}$	0.059
1 X $\frac{3}{4}$	439-131	$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{2}$	0.043
$1\frac{1}{4}$ X $\frac{3}{4}$	439-167	$1\frac{5}{16}$	$\frac{3}{4}$	$\frac{9}{16}$	0.092
$1\frac{1}{4}$ X 1	439-168	$1\frac{5}{16}$	1	$\frac{5}{16}$	0.063
$1\frac{1}{2}$ X $\frac{3}{4}$	439-210	$1\frac{3}{8}$	$\frac{23}{32}$	$\frac{21}{32}$	0.128
$1\frac{1}{2}$ X 1	439-211	$1\frac{3}{8}$	1	$\frac{11}{32}$	0.110
$1\frac{1}{2}$ X $1\frac{1}{4}$	439-212	$1\frac{3}{8}$	1	$\frac{3}{8}$	0.068
2 X $1\frac{1}{2}$	439-251	$1\frac{7}{16}$	1	$\frac{7}{16}$	0.143

Cap

S

PVC PART NO. 2116

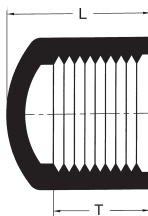


Size	Universal Part Number	L	S	Approx. Wt. (Lbs)
$\frac{1}{2}$	447-005	$1\frac{1}{8}$	$\frac{3}{4}$	0.024
$\frac{3}{4}$	447-007	1	$\frac{3}{4}$	0.035
1	447-010	$1\frac{5}{8}$	$1\frac{5}{32}$	0.060
$1\frac{1}{4}$	447-012	$1\frac{13}{16}$	$1\frac{1}{4}$	0.094
$1\frac{1}{2}$	447-015	$1\frac{3}{4}$	$1\frac{1}{8}$	0.116
2	447-020	$2\frac{5}{32}$	$1\frac{13}{32}$	0.184
$2\frac{1}{2}$	447-025	$2\frac{17}{32}$	$1\frac{13}{16}$	0.368
3	447-030	$2\frac{15}{16}$	$1\frac{29}{32}$	0.463
4	447-040	$3\frac{1}{8}$	$2\frac{1}{32}$	0.720
6	447-060	$4\frac{1}{2}$	$3\frac{1}{32}$	2.349
8	447-080	$6\frac{3}{16}$	4	4.074

Cap

FPT

PVC PART NO. 2117



Size	Universal Part Number	L	T	Approx. Wt. (Lbs)
1/2	448-005	1 1/8	7/8	0.033
3/4	448-007	1 1/4	1	0.046
1	448-010	1 9/32	1 5/16	0.068
1 1/4	448-012	1 7/16	1	0.108
1 1/2	448-015	1 9/16	1	0.140
2	448-020	1 5/8	1 1/16	0.192

Plug

SPG

PVC PART NO. 2118



Size	Universal Part Number	L	SPG	Approx. Wt. (Lbs)
1/2	449-005	29/32	1 1/16	0.017
3/4	449-007	1	3/4	0.028
1	449-010	1 5/32	7/8	0.047
1 1/2	449-015	1 1/2	1 3/16	0.102
2	449-020	1 5/8	1 1/4	0.152

Plug

MPT

PVC PART NO. 2113

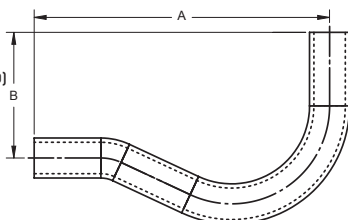


Size	Universal Part Number	L	T	Approx. Wt. (Lbs)
1/2	450-005	15/16	3/4	0.017
3/4	450-007	1	3/4	0.028
1	450-010	1 1/4	1	0.050
1 1/4	450-012	1 5/16	1	0.074
1 1/2	450-015	1 5/16	1	0.102
2	450-020	1 15/32	1 1/16	0.184

HVAC Condensate P Trap^(D)

SPG x SPG

PVC PART NO. 2700

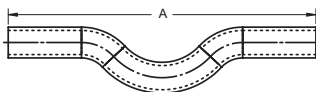


Size	Universal Part Number	A	B	Approx. Wt. (Lbs)
3/4	489-007	7 3/4	2 7/8	0.193

HVAC Condensate Running Trap^(D)

SPG x SPG

PVC PART NO. 2701



Size	Universal Part Number	A	Approx. Wt. (Lbs)
1/2 ^(C)	488-005	10 5/16	0.145
3/4	488-007	10 7/16	0.193

^(D) Does not conform to ASTM D 2466.^(C) Contact sales office for availability.

FlowGuard Gold® Pipe

FlowGuard Gold is a registered trademark of The Lubrizol Corporation.


FlowGuard Gold®
 PLUMBING SYSTEMS


CPVC Copper Tube Size Pipe

STRAIGHT LENGTHS PLAIN END SDR 11 CPVC COPPER TUBE SIZE PIPE ASTM D 2846							
PART NO.	NOM. SIZE	UPC # 611942-	QTY. PER SKID	AVG. OD (IN.)	MIN. WALL (IN.)	MAX WORK PRESSURE AT 23°C OR 73°F	WT. PER 100 FT. (LBS.)
CTS 12005	1/2" x 10'	04979	12,000'	.625	.068	400 PSI	8.3
CTS 12005	1/2" x 20'	04993	24,000'	.625	.068	400 PSI	8.3
CTS 12007	3/4" x 10'	04980	6,000'	.875	.080	400 PSI	13.9
CTS 12007	3/4" x 20'	05145	12,000'	.875	.080	400 PSI	13.9
CTS 12010	1" x 10'	05146	3,600'	1.125	.102	400 PSI	22.2
CTS 12010	1" x 20'	05147	7,200'	1.125	.102	400 PSI	22.2
CTS 12012	1 1/4" x 10'	05148	2,400'	1.375	.125	400 PSI	33.3
CTS 12012	1 1/4" x 20'	05321	4,800'	1.375	.125	400 PSI	33.3
CTS 12015	1 1/2" x 10'	05150	1,440'	1.625	.148	400 PSI	46.6
CTS 12015	1 1/2" x 20'	05306	2,880'	1.625	.148	400 PSI	46.6
CTS 12020	2" x 10'	05152	960'	2.125	.193	400 PSI	79.5
CTS 12020	2" x 20'	05322	1,920'	2.125	.193	400 PSI	79.5

NOTE: STRAIGHT LENGTH PIPE ARE SHIPPED IN FULL BUNDLE QUANTITY ONLY.

COILED PIPE SDR 11 COILED SDR CPVC COPPER TUBE SIZE PIPE ASTM D 2846							
PART NO.	NOM. SIZE	UPC # 611942-	QTY. PER SKID	AVG. OD (IN.)	MIN. WALL (IN.)	MAX WORK PRESSURE AT 23°C OR 73°F	WT. PER 100 FT. (LBS.)
CTS 12005	1/2" x 150'	05313	3,750'	.625	.068	400 PSI	8.3
CTS 12007	3/4" x 100'	05314	2,500'	.875	.080	400 PSI	13.9
CTS 12010	1" x 100'	10643	1,200'	1.125	.102	400 PSI	22.2

NSF Listed. Meets All Requirements of ASTM D 2846.



⚠ WARNING

Testing with or use of compressed air or gas in ABS / CPVC / PVC pipe or fittings can result in explosive failures and cause severe injury or death.

AIR/GAS

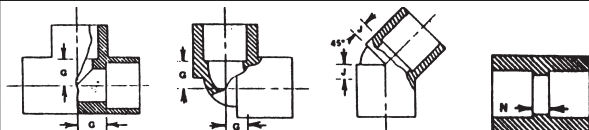


- NEVER test with or transport/store compressed air or gas in ABS / CPVC / PVC pipe or fittings.
- NEVER test ABS / CPVC / PVC pipe or fittings with compressed air or gas, or air over water boosters.
- ONLY use ABS / CPVC / PVC pipe or fittings for water or approved chemicals.
- Refer to warnings on PPFA's website and ASTM D 1785.

FlowGuard Gold® Fittings

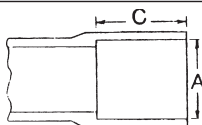


MINIMUM DIMENSIONS FROM CENTER TO END OF SOCKET (LAYING LENGTH) FOR CPVC 41, SDR 11 FITTINGS



NOMINAL SIZE (IN.)	"G" MINIMUM IN. (mm)	"J" MINIMUM IN. (mm)	"N" MINIMUM IN. (mm)
1/2	0.382 (9.70)	0.183 (4.65)	0.102 (2.59)
3/4	0.507 (12.88)	0.235 (5.97)	0.102 (2.59)
1	0.633 (16.08)	0.287 (7.29)	0.102 (2.59)
1 1/4	0.758 (19.25)	0.339 (8.61)	0.102 (2.59)
1 1/2	0.884 (22.45)	0.391 (9.93)	0.102 (2.59)
2	1.134 (28.83)	0.495 (12.57)	0.102 (2.59)

TAPERED SOCKET DIMENSIONS FOR CPVC 41, SDR 11 PLASTIC PIPE FITTINGS

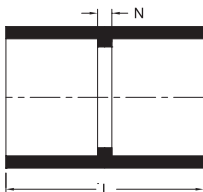


NOMINAL SIZE (IN.)	SOCKET ENTRANCE DIAMETER, IN. (mm) "A" AVERAGE	SOCKET LENGTH, IN. (mm) "C" MINIMUM
1/2	0.633 (16.08)	0.500 (12.70)
3/4	0.884 (22.45)	0.700 (17.78)
1	1.135 (28.83)	0.900 (22.86)
1 1/4	1.386 (35.20)	1.100 (27.94)
1 1/2	1.640 (41.66)	1.300 (33.02)
2	2.141 (54.38)	1.700 (43.18)

Coupling

S x S

CTS PART NO. 2100

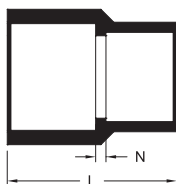


Size	UPC# 611942-	L	N	Approx. Wt. (Lbs)
1/2	04994	1 1/8	1/8	0.016
3/4	05154	1 1/2	1/8	0.027
1	05155	1 15/16	1/8	0.050
1 1/4	05156	2 11/32	1/8	0.085
1 1/2	05157	2 11/16	1/8	0.134
2	05158	3 17/32	1/8	0.300

Coupling

S x S

CTS PART NO. 2100



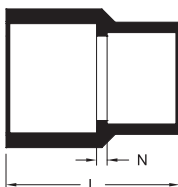
Size	UPC# 611942-	L	N	Approx. Wt. (Lbs)
3/4 X 1/2	05159	1 13/32	3/16	0.02
1 X 3/4	05160	1 13/16	3/16	0.04
1 1/4 X 1(A)	09942	2 1/2	9/16	0.12

(A) Assembled

Transition Coupling

IPS S x CTS S

CTS PART NO. 2100 I

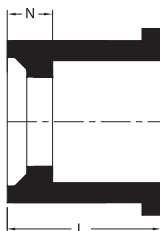


Size	UPC# 611942-	L	N	Approx. Wt. (Lbs)
$\frac{3}{4}$	04996	$1\frac{5}{8}$	$\frac{3}{16}$	0.50
1	05175	$2\frac{1}{8}$	$\frac{1}{8}$	0.07

Reducer Bushing

SPG x S

CTS PART NO. 2107



Size	UPC# 611942-	L	N	Approx. Wt. (Lbs)
$\frac{3}{4} \times 1\frac{1}{2}$	04998	$\frac{27}{32}$	$\frac{11}{32}$	0.010
$1 \times 1\frac{1}{2}$	05177	$\frac{1}{32}$	$\frac{17}{32}$	0.030
$1 \times \frac{3}{4}$	05178	$\frac{1}{32}$	$\frac{5}{16}$	0.020
$1\frac{1}{4} \times 1\frac{1}{2}$	05179	$1\frac{1}{4}$	$\frac{3}{4}$	0.050
$1\frac{1}{4} \times \frac{3}{4}$	05180	$\frac{17}{32}$	$\frac{1}{2}$	0.060
$1\frac{1}{4} \times 1$	05181	$1\frac{1}{4}$	$\frac{11}{32}$	0.040
$1\frac{1}{2} \times 1\frac{1}{2}$	05182	$\frac{17}{16}$	$\frac{15}{16}$	0.080
$1\frac{1}{2} \times \frac{3}{4}$	05183	$\frac{17}{16}$	$\frac{23}{32}$	0.080
$1\frac{1}{2} \times 1$	05184	$\frac{17}{16}$	$\frac{17}{32}$	0.083
$1\frac{1}{2} \times 1\frac{1}{4}$	05185	$\frac{17}{16}$	$\frac{5}{16}$	0.050
$2 \times 1\frac{1}{2}$	05186	$1\frac{13}{16}$	$\frac{15}{16}$	0.170
$2 \times \frac{3}{4}$	05187	$1\frac{13}{16}$	$\frac{13}{32}$	0.170
2×1	05188	$1\frac{13}{16}$	$\frac{7}{16}$	0.180
$2 \times 1\frac{1}{4}$	05189	$1\frac{13}{16}$	$\frac{11}{16}$	0.160
$2 \times 1\frac{1}{2}$	05190	$1\frac{13}{16}$	$\frac{1}{2}$	0.150

Transition Bushing

IPS SPG X CTS S

CTS PART NO. 2107 I

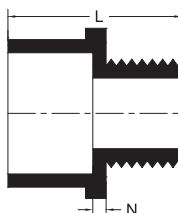


Size	UPC# 611942-	L	N	Approx. Wt. (Lbs)
1/2	04999	1 1/32	1 7/32	0.01
3/4	05191	1 1/8	1 3/32	0.02
1	05192	1 9/32	3/8	0.03
1 1/4	05193	1 3/8	1 1/32	0.06
1 1/2	05194	1 1/2	3/16	0.07
2	05195	1 7/8	5/32	0.10

Male Adapter

S x MPT

CTS PART NO. 2109**



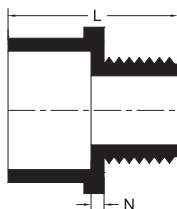
Size	UPC# 611942-	L	N	Approx. Wt. (Lbs)
1/2	05000	1 5/16	1/8	0.02
3/4	05196	1 5/8	3/32	0.04
1	05197	1 31/32	1/8	0.07
1 1/4	05198	2 15/32	1/4	0.12
1 1/2	05199	2 7/8	9/32	0.18
2	05200	3 5/8	7/32	0.34

** For cold water applications only. Does not conform to the requirements of ASTM D 2846.

Reducing Male Adapter

S x MPT

CTS PART NO. 2110**

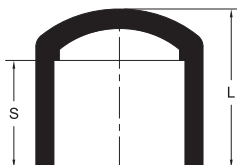


Size	UPC# 611942-	L	N	Approx. Wt. (Lbs)
3/4 X 1/2	05252	1 3/4	5/32	0.040

Cap

S

CTS PART NO. 2116



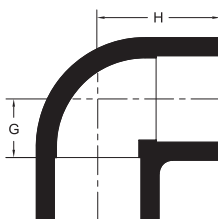
Size	UPC# 611942-	L	S	Approx. Wt. (Lbs)
1/2	05002	3/4	1/2	0.01
3/4	05202	1	23/32	0.02
1	05203	1 1/8	29/32	0.04
1 1/4	05204	1 9/16	1 1/8	0.06
1 1/2	05205	1 23/32	1 5/16	0.10
2	05206	2 1/16	1 23/32	0.21

** For cold water applications only. Does not conform to the requirements of ASTM D 2846.

90 Degree Elbow

S x S

CTS PART NO. 2300

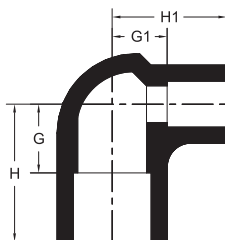


Size	UPC# 611942-	H	G	G1	H1	Approx. Wt. (Lbs)
1/2	04982	7/8	3/8			0.025
3/4	04983	1 1/4	9/16			0.049
1	04984	1 17/32	5/8			0.073
1 1/4	05006	1 27/32	3/4			0.135
1 1/2	05207	2 3/16	7/8			0.213
2	05208	2 27/32	1 5/32			0.456

90 Degree Elbow, Reducing

S x S

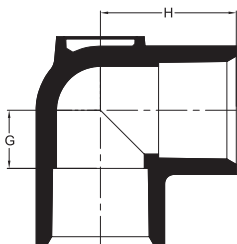
CTS PART NO. 2300



Size	UPC# 611942-	G	G1	H	H1	Approx. Wt. (Lbs)
3/4 X 1/2	05209	1 3/32	1 7/32	1 1/8	1 1/32	0.037

Drop Ear Elbow

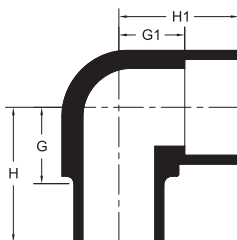
All CPVC - S x S

CTS PART NO. 2300 D

Size	UPC# 611942-	H	G	Approx. Wt. (Lbs)
1/2	05007	29/32	3/8	0.03

90 Degree Street Elbow

SPG x S

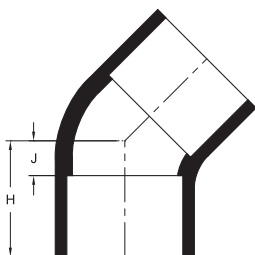
CTS PART NO. 2304

Size	UPC# 611942-	H	G	H1	G1	Approx. Wt. (Lbs)
1/2	05011	1 1/32	17/32	7/8	3/8	0.03
3/4	04985	1 13/32	1 1/16	1 17/32	13/16	0.05
1	09922	1 23/32	13/16	1 17/32	5/8	0.08
1 1/4	08162	2 7/16	29/32	2 15/32	1 7/32	0.23

45 Degree Elbow

S x S

CTS PART NO. 2309

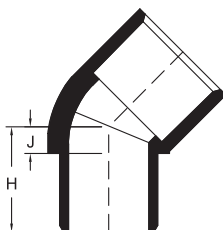


Size	UPC# 611942-	H	J	Approx. Wt. (Lbs)
1/2	05012	1 1/16	3/16	0.020
3/4	05228	1 5/16	1/4	0.039
1	05229	1 3/16	9/32	0.059
1 1/4	05230	1 7/16	1 1/32	0.109
1 1/2	05231	1 11/16	3/8	0.174
2	05232	2 3/16	1/2	0.373

Street Elbow 45 Degree

SPG x S

CTS PART NO. 2310

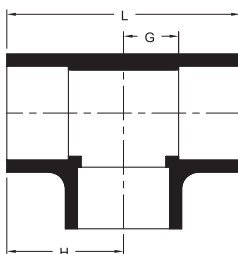


Size	UPC# 611942-	H	J	Approx. Wt. (Lbs)
1/2	05013	1 1/16	3/16	0.02
3/4	05233	1 5/16	1/4	0.03
1	10652	1 7/32	5/16	0.06

Tee

S x S x S

CTS PART NO. 2400

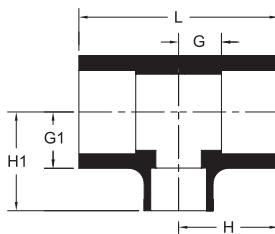


Size	UPC# 611942-	L	H	G	Approx. Wt. (Lbs)
1/2	05014	1 13/16	29/32	13/32	0.032
3/4	05238	2 7/16	1 7/32	1/2	0.059
1	05239	3 1/16	1 17/32	5/8	0.104
1 1/4	05240	3 3/4	1 7/8	25/32	0.177
1 1/2	05241	4 3/8	2 3/16	7/8	0.286
2	05242	5 11/16	2 27/32	1 1/8	0.624

Reducer Tee

S x S x S

CTS PART NO. 2400

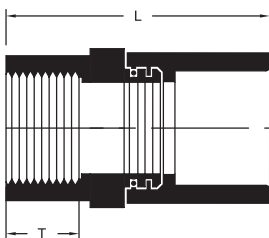


Size	UPC# 611942-	L	H	G	H1	G1	Approx. Wt. (Lbs)
1/2 x 1/2 x 3/4	10685	2 1/16	1 1/32	1/2	1 1/4	17/32	0.04
3/4 x 3/4 x 1/2	05243	2 7/16	1 7/32	1/2	1 1/32	1/2	0.05
3/4 x 3/4 x 1	05019	3 3/8	1 11/16	5/8	1 17/32	5/8	0.15
3/4 x 1/2 x 1/2	05244	2 7/32	1 7/32	1/2	1 1/32	1/2	0.05
3/4 x 1/2 x 3/4	05245	2 1/4	1 7/32	1/2	1 7/32	1/2	0.06
1 x 1/2 x 1/2	05020	3 7/32	1 17/32	5/8	1 11/16	13/16	0.17
1 x 1/2 x 3/4	05021	3 7/32	1 17/32	5/8	1 11/16	13/16	0.16
1 x 1/2 x 1	05022	3 7/32	1 17/32	5/8	1 17/32	5/8	0.13
1 x 3/4 x 1/2	05023	3 7/32	1 17/32	5/8	1 11/16	31/32	0.16
1 x 3/4 x 3/4	10598	2 25/32	1 7/16	1 7/32	1 11/32	5/8	0.08
1 x 3/4 x 1	05025	2 31/32	1 19/32	1 1/16	1 9/16	21/32	0.11
1 x 1 x 1/2	10599	2 5/8	1 5/16	1 1/32	1 29/32	1 7/32	0.08
1 x 1 x 3/4	05469	2 15/16	1 15/32	9/16	1 3/8	21/32	0.09
1 1/4 x 1 x 1	05038	3 7/8	1 7/8	3/4	2	1 3/32	0.15
1 1/4 x 1 1/4 x 1/2	11262	3	1 1/2	3/8	1 9/32	3/4	0.12
1 1/4 x 1 1/4 x 3/4	11192	3 3/16	1 19/32	1 5/32	1 1/2	2 5/32	0.13
1 1/4 x 1 1/4 x 1	11233	3 1/2	1 3/4	5/8	1 11/16	2 5/32	0.15
1 1/2 x 1 x 1	05056	4 1/2	2 1/4	1 5/16	2 11/32	1 1/2	0.21
1 1/2 x 1 1/2 x 1/2	11592	3 7/8	1 15/16	5/8	1 11/32	1 3/16	0.21
1 1/2 x 1 1/2 x 3/4	11232	3 7/8	1 15/16	5/8	1 21/32	1 5/16	0.21
1 1/2 x 1 1/2 x 1	10686	3 7/8	1 15/16	5/8	1 23/32	2 5/32	0.21
2 x 2 x 1/2	11234	4 3/16	2 3/32	3/8	1 5/8	1 3/32	0.35
2 x 2 x 3/4	11235	4 7/16	2 7/32	1/2	1 7/8	1 5/32	0.37
2 x 2 x 1	10687	4 11/16	2 11/32	5/8	1 31/32	1 1/16	0.41
2 x 2 x 1 1/2	11236	5 3/8	2 11/16	31/32	2 7/16	1 1/8	0.51

Low-Lead Brass Female Adapter

FPT X CTS HUB

CTS PART NO. 2105 L

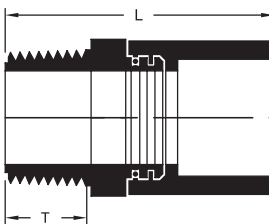


Size	UPC# 611942-	L	T	Approx. Wt. (Lbs)
1 1/4	12404	3 1/16	3/4	0.88
1 1/2	12405	3 9/32	7/8	1.07
2	12406	3 11/16	31/32	1.48

Low-Lead Brass Male Adapter

MPT X CTS HUB

CTS PART NO. 2115 L

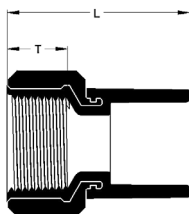


Size	UPC# 611942-	L	T	Approx. Wt. (Lbs)
1 1/4	12407	3 3/16	25/32	0.83
1 1/2	12408	3 1/2	13/16	1.12
2	12409	4 1/32	13/16	1.85

Low-Lead Brass Female Adapter

FPT X CTS HUB

CTS PART NO. 2206 B

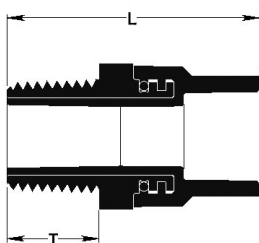


Size	UPC# 611942-	L	T	Approx. Wt. (Lbs)
1/2	16416	1 9/16	5/8	0.16
3/4	16417	1 15/16	5/8	0.21
1	16418	2 1/4	3/4	0.34

Low-Lead Brass Male Adapter

MPT X CTS HUB

CTS PART NO. 2216 B

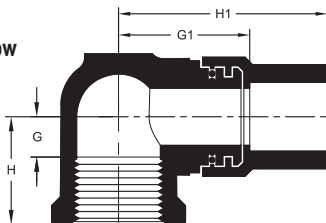


Size	UPC# 611942-	L	T	Approx. Wt. (Lbs)
1/2	15358	1 27/32	11/16	0.14
3/4	15359	2	5/8	0.18
1	15360	2 23/32	29/32	0.36

Low-Lead Brass Drop Ear Elbow

FPT X CPVC HUB

CTS PART NO. 2302 L



Size	UPC# 611942-	H	H1	G	G1	Approx. Wt. (Lbs)
1/2	11640	29/32	1 3/4	13/32	17/32	0.28

CPVC Schedule 80 Pipe

Corzan® CPVC Schedule 80 Pipe, Type IV, Grade 1

CPVC SCHEDULE 80 (LIGHT GRAY)			PLAIN END			CPVC 4120	
PART NO.	NOM. SIZE	UPC # 611942-	QTY. PER SKID	AVG. OD (IN.)	MIN. WALL (IN.)	MAX WORK PRESSURE AT 23° C OR 73°	WT. PER 100 FT. (LBS.)
CPV 11005	1/2" x 20'	04787	6660'	.840	.147	850 PSI	22.1
CPV 11007	3/4" x 20'	04788	3760'	1.050	.154	690 PSI	30.0
CPV 11010	1" x 20'	04789	3540'	1.315	.179	630 PSI	44.2
CPV 11012	1 1/4" x 20'	04790	4240'	1.660	.191	520 PSI	61.0
CPV 11015	1 1/2" x 20'	04791	3300'	1.900	.200	470 PSI	73.9
CPV 11020	2" x 20'	04792	2220'	2.375	.218	400 PSI	102.2
CPV 11025	2 1/2" x 20'	04793	1460'	2.875	.276	420 PSI	155.9
CPV 11030	3" x 20'	04794	1000'	3.500	.300	370 PSI	208.6
CPV 11040	4" x 20'	04795	1140'	4.500	.337	320 PSI	304.9
CPV 11060	6" x 20'	04796	520'	6.625	.432	280 PSI	581.5
CPV 11080	8" x 20'	04797	280'	8.625	.500	250 PSI	882.9

NSF Listed. Meets All Requirements of ASTM D 1784 and ASTM F 441.

Note: Full pallets are polyethylene wrapped for cleanliness and UV protection.

WARNING

Testing with or use of compressed air or gas in ABS / CPVC / PVC pipe or fittings can result in explosive failures and cause severe injury or death.

AIR/GAS

- NEVER test with or transport/store compressed air or gas in ABS / CPVC / PVC pipe or fittings.
- NEVER test ABS / CPVC / PVC pipe or fittings with compressed air or gas, or air over water boosters.
- ONLY use ABS / CPVC / PVC pipe or fittings for water or approved chemicals.
- Refer to warnings on PPFA's website and ASTM D 1785.



This is to certify that all Plastic Pipe and Fittings manufactured by Charlotte Pipe and Foundry Company are manufactured in the United States and conform to the following standards:

PVC SCH. 40 SOLID WALL PIPE

ASTM D 1784, ASTM D 1785
ASTM D 2665, FHA UM 79a
FEDERAL SPECIFICATION L-P-320a
NSF STANDARD NO. 14 AND 61

PVC SCH. 40 DWV CELLULAR CORE PIPE

ASTM D 4396, ASTM F 891
NSF STANDARD NO. 14

PVC SCH. 40 DWV FITTINGS

ASTM D 1784, ASTM D 2665
ASTM D 3311, ASTM F 1866
FHA UM 79a
FEDERAL SPECIFICATION L-P-320a
NSF STANDARD NO. 14

PVC SDR-21 AND SDR-26 PRESSURE PIPE

ASTM D 1784, ASTM D 2241
NSF STANDARD NO. 14 AND 61

PVC SCH. 40 PRESSURE FITTINGS

ASTM D 1784, ASTM D 2466
NSF STANDARD NO. 14 AND 61

PVC SCH. 40 WELL CASING PIPE

ASTM D 1784, ASTM F 480
NSF STANDARD NO. 14 AND 61

PVC SCH. 80 PIPE

ASTM D 1784, ASTM D 1785, PVC 1120
NSF STANDARD NO. 14 AND 61

PVC SCH. 80 FITTINGS

ASTM D 1784, ASTM D 2467, ASTM D 2464, ASTM F 1970
NSF STANDARD NO. 14 AND 61

PVC SCH. 40 PRESSURE FITTINGS

ASTM D 1784, ASTM D 2466
NSF STANDARD NO. 14 AND 61

PVC SCH. 40 WELL CASING PIPE

ASTM D 1784, ASTM F 480
NSF STANDARD NO. 14 AND 61

PVC SCH. 80 PIPE

ASTM D 1784, ASTM D 1785
PVC 1120
NSF STANDARD NO. 14 AND 61

PVC SCH. 80 FITTINGS

ASTM D 1784, ASTM D 2467
ASTM D 2464, ASTM F 1970

PVC SDR 35 SEWER MAIN PIPE

ASTM D 1784, ASTM D 3034 SDR 35
ASTM D 3212, ASTM F 477

PVC SEWER AND DRAIN PIPE

ASTM D 1784, ASTM D 2729

PVC THIN WALL PIPE & FITTINGS

ASTM D 1784, ASTM D 2949
NSF STANDARD NO. 14

CPVC FLOWGUARD GOLD® CTS PIPE & FITTINGS

ASTM D 1784, ASTM D 2846
FHA UM-61a
NSF STANDARD NO. 14. AND 61
CSA LISTED ON SPECIFIED ITEMS

CORZAN® CPVC SCH. 80 PIPE

ASTM D 1784, ASTM F441/F 441M
NSF STANDARD NO. 14. AND 61

CPVC CHEMDRAIN® SCH. 40 PIPE & FITTINGS

ASTM D 1784, ASTM F 2618
NSF STANDARD NO. 14

ABS SCH. 40 DWV CELLULAR CORE PIPE

ASTM D 3965, ASTM F 628
NSF STANDARD NO. 14

ABS PLUS® SCH. 40 DWV CELLULAR CORE PIPE

ASTM D 3965, ASTM D 4396
ASTM F 1488
NSF STANDARD NO. 14.

ABS SCH. 40 DWV FITTINGS

ASTM D 3965, ASTM D 2661
ASTM D 3311, FHA UM 79a
FEDERAL SPECIFICATION L-P-322b
NSF STANDARD NO. 14

LIMITED WARRANTY

Charlotte Pipe and Foundry Company® (Charlotte Pipe®) Products are warranted to be free from manufacturing defects and to conform to currently applicable ASTM standards for a period of five (5) years from date of delivery. Buyer's remedy for breach of this warranty is limited to replacement of, or credit for, the defective product. This warranty excludes any expense for removal or reinstallation of any product and any other incidental, consequential, or punitive damages. **This limited warranty is the only warranty made by seller and is expressly in lieu of all other warranties, express and implied, including any warranties of merchantability and fitness for a particular purpose.** No statement, conduct or description by Charlotte Pipe or its representative, in addition to or beyond this Limited Warranty, shall constitute a warranty. This Limited Warranty may only be modified in writing signed by an officer of Charlotte Pipe.

This Limited Warranty will not apply if:

- 1) The Products are used for purposes other than their intended purpose as defined by local plumbing and building codes, and the applicable ASTM standard.
- 2) The Products are not installed in good and workmanlike manner consistent with normal industry standards; installed in compliance with the latest instructions published by Charlotte Pipe and good plumbing practices; and installed in conformance with all applicable plumbing, fire and building code requirements.
- 3) This limited warranty does not apply when the products of Charlotte Pipe are used with the products of other manufacturers that do not meet the applicable ASTM or CISPI standards or that are not marked in a manner to indicate the entity that manufactured them.
- 4) In hubless cast iron installations, this warranty will not apply if products are joined with unshielded hubless couplings. Charlotte Pipe requires that its hubless cast iron pipe and fittings be joined only with shielded hubless couplings manufactured in accordance with CISPI 310, ASTM C 1277 and certified by NSF® International or with Heavy Duty Couplings meeting ASTM C 1540.
- 5) The Products fail due to defects or deficiencies in design, engineering, or installation of the piping system of which they are a part.
- 6) The Products have been the subject of modification; misuse; misapplication; improper maintenance or repair; damage caused by the fault or negligence of anyone other than Charlotte Pipe; or any other act or event beyond the control of Charlotte Pipe.
- 7) The Products fail due to the freezing of water in the Products.
- 8) The Products fail due to contact with chemical agents, fire stopping materials, thread sealant, plasticized vinyl products, or other aggressive chemical agents that are not compatible.
- 9) Pipe outlets, sound attenuation systems or other devices are permanently attached to the surface of Charlotte® PVC, ABS or CPVC products with solvent cement or adhesive glue.

Charlotte Pipe products are manufactured to the applicable ASTM or CISPI standard. Charlotte Pipe and Foundry **cannot** accept responsibility for the performance, dimensional accuracy, or compatibility of pipe, fittings, gaskets, or couplings not manufactured or sold by Charlotte Pipe and Foundry.

This Limited Warranty will not apply unless written notice of a claim is mailed to Charlotte Pipe at the address below within 30 days of discovery of the allegedly defective product.

Any Charlotte Pipe products alleged to be defective **must** be made available to Charlotte Pipe at the following address for verification, inspection and determination of cause:

Charlotte Pipe and Foundry Company
Attention: Technical Services
2109 Randolph Road
Charlotte, North Carolina 28207

Purchaser must obtain a return materials authorization and instructions for return shipment to Charlotte Pipe of any product claimed defective or shipped in error.

Any Charlotte Pipe product **proved** to be defective in manufacture will be replaced F.O.B. point of original delivery, or credit will be issued, at the discretion of Charlotte Pipe.

5/19/23

Charlotte and Charlotte Pipe are registered trademarks of Charlotte Pipe and Foundry Company.

FlowGuard Gold® CPVC CTS Limited Warranty

Charlotte Pipe and Foundry Company (Charlotte Pipe®) warrants to the original owner of the structure in which its FlowGuard Gold CPVC CTS Pipe and Fittings (the "Products") have been installed, that the Products will be free from manufacturing defects and conform to currently applicable ASTM standards under normal use and service for a period of ten (10) years from date of delivery. Buyer's remedy for breach of this warranty is limited to replacement of, or credit for, the product. This warranty excludes any expense for removal or reinstallation of any product and any other incidental, consequential, or punitive damages. **This limited warranty is the only warranty made by seller and is expressly in lieu of all other warranties, express and implied, including any warranties of merchantability and fitness for a particular purpose.** No statement, conduct or description by Charlotte Pipe or its representative, in addition to or beyond this Limited Warranty, shall constitute a warranty. This Limited Warranty may only be modified in writing signed by an officer of Charlotte Pipe.

This Limited Warranty will not apply if:

- 1) The Products are used for purposes other than the transmission of domestic water.
- 2) The Products are not installed in good and workmanlike manner consistent with normal industry standards; installed in compliance with the latest instructions published by Charlotte Pipe and good plumbing practices; and installed in conformance with all applicable plumbing, fire and building code requirements.
- 3) This limited warranty does not apply when the products of Charlotte Pipe are used with the products of other manufacturers that do not meet the ASTM standard or that are not marked in a manner to indicate the entity that manufactured them.
- 4) The Products fail due to defects or deficiencies in design, engineering, or installation of the water distribution system of which they are a part.
- 5) The Products have been the subject of modification; misuse; misapplication; improper maintenance or repair; damage caused by the fault or negligence of anyone other than Charlotte Pipe; or any other act or event beyond the control of Charlotte Pipe.
- 6) The Products fail due to the freezing of water in the Products.
- 7) The Products fail due to contact with chemical agents, fire stopping materials, thread sealant, plasticized vinyl products, or other aggressive chemical agents not compatible with CPVC compounds.

Charlotte Pipe products are manufactured to the applicable ASTM standard. Charlotte Pipe and Foundry **cannot** accept responsibility for the performance, dimensional accuracy, or compatibility of pipe, fittings, gaskets, or couplings not manufactured or sold by Charlotte Pipe and Foundry.

This Limited Warranty will not apply unless written notice of a claim is mailed to Charlotte Pipe at the address below within 30 days of discovery of the allegedly defective product.

Any Charlotte Pipe products alleged to be defective **must** be made available to Charlotte Pipe at the following address for verification, inspection and determination of cause:

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5/19/23

Charlotte Pipe is a registered trademark of Charlotte Pipe and Foundry Company.
FlowGuard Gold is a registered trademark of Lubrizol Corporation.

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