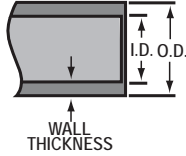


Schedule 80 CPVC Technical Information  
**Schedule 80 CPVC Fittings**



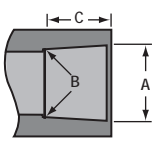
## ASTM STANDARD DIMENSIONS

**SCHEDULE 80 PIPE DIMENSIONS  
ASTM D 1785**



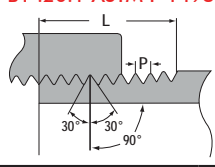
Nominal Pipe Size In.	Mean Outside Diameter In.	O. D. Tolerance In.	Minimum Wall Thickness In.
1/8	0.405	± 0.004	0.095
1/4	0.540	± 0.004	0.119
3/8	0.675	± 0.004	0.126
1/2	0.840	± 0.004	0.147
3/4	1.050	± 0.004	0.154
1	1.315	± 0.005	0.179
1-1/4	1.660	± 0.005	0.191
1-1/2	1.900	± 0.006	0.200
2	2.375	± 0.006	0.218
2-1/2	2.875	± 0.007	0.276
3	3.500	± 0.008	0.300
4	4.500	± 0.009	0.337
5	5.563	± 0.010	0.375
6	6.625	± 0.011	0.432
8	8.625	± 0.015	0.500
10	10.750	± 0.015	0.593
12	12.750	± 0.015	0.687

**SCHEDULE 80 SOCKET DIMENSIONS  
ASTM D 2467**



Nominal Size In.	Diameter			Socket Length Minimum C
	Entrance A	Bottom B	Tolerance A	
1/8	0.417	0.401	± 0.004	0.500
1/4	0.552	0.536	± 0.004	0.625
3/8	0.687	0.671	± 0.004	0.750
1/2	0.848	0.836	± 0.004	0.875
3/4	1.058	1.046	± 0.004	1.000
1	1.325	1.310	± 0.005	1.125
1-1/4	1.670	1.655	± 0.005	1.250
1-1/2	1.912	1.894	± 0.006	1.375
2	2.387	2.369	± 0.006	1.500
2-1/2	2.889	2.868	± 0.007	1.750
3	3.516	3.492	± 0.008	1.875
4	4.518	4.491	± 0.009	2.250
5	5.583	5.553	± 0.010	2.625
6	6.647	6.614	± 0.011	3.000
8	8.655	8.610	± 0.015	4.000
10	10.780	10.735	± 0.015	5.000
12	12.780	12.735	± 0.015	6.000
14	14.030	13.985	± 0.015	7.000

**AMERICAN NATIONAL STANDARD  
TAPER PIPE THREADS (NPT) ANSI  
B1 .20.1 ASTM F 1498**



Nominal Size In.	Threads Per Inch	Effective Thread Length L	Pitch Of Thread P
1/8	27	0.2639	0.03704
1/4	18	0.4018	0.05556
3/8	18	0.4078	0.05556
1/2	14	0.5337	0.07143
3/4	14	0.5457	0.07143
1	11-1/2	0.6828	0.08696
1-1/4	11-1/2	0.7068	0.08696
1-1/2	11-1/2	0.7235	0.08696
2	11-1/2	0.7565	0.08696
2-1/2	8	1.1375	0.12500
3	8	1.2000	0.12500
4	8	1.3000	0.12500
5	8	1.4063	0.12500
6	8	1.5125	0.12500
8	8	1.7125	0.12500

## STANDARD COMPARISONS

SPEARS® IPS-to-Metric transition unions are listed by nominal size. The chart below compares nominal and actual\* pipe O.D. for each size according to the designated standard.

JIS K6741 (mm)		DIN 8062 (mm)		ASTM D1785 (in.)		NPT—ANSI B1.20.1** Tapered Thread		BSP—BS21, DIN 2999, ISO 7/1 Thread	
Nominal	Actual*	O.D.	Actual*	Nominal	Actual*	Designation	Threads/in.	Designation	Threads/25.4mm
16	22	15	20	1/2	.840	1/2	14	1/2	14
20	26	20	25	3/4	1.050	3/4	14	3/4	14
25	32	25	32	1	1.315	1	11.5	1	11
30	38	38	40	1-1/4	1.660	1-1/4	11.5	1-1/4	11
40	48	40	50	1-1/2	1.900	1-1/2	11.5	1-1/2	11
50	60	50	63	2	2.375	2	11.5	2	11
75	89	80	90	3	3.500	3	8	3	11
100	114	100	110	4	4.500	4	8	4	11

\*Specified dimension, certain tolerances apply

\*\*NPT and BSP have different thread angles and not compatible.

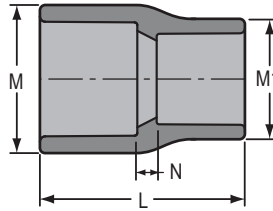
Schedule 80 CPVC Technical Information  
**Schedule 80 CPVC Fittings**



**REDUCER COUPLING**

(continued)

Socket x Socket



Part Number	Size	L	M	M1	N	Approx. Wt. (Lbs.)
829-292C	2-1/2x2	3-21/32	3-15/32	2-27/32	13/32	.51
829-335C	3x1	4-7/16	4-1/8	2-7/8	1-7/16	1.04
829-336C <sup>1</sup>	3x1-1/4	4-7/32	4-5/32	2-29/32	1-1/16	.97
829-337C	3x1-1/2	3-1/2	4-3/16	2-3/8	7/32	.71
829-338C	3x2	4	4-5/32	2-7/8	19/32	.78
829-339C	3x2-1/2	4-1/8	4-5/32	3-15/32	1/2	.79
829-339CF	3x2-1/2	6	4-1/16	3-7/16	1-3/4	1.01
829-416C <sup>1</sup>	4x3/4	5-23/32	5-9/32	2-29/32	2-13/32	1.78
829-417C <sup>1</sup>	4x1	5-15/16	5-9/32	2-29/32	2-17/32	1.54
829-419C <sup>1</sup>	4x1-1/2	5-23/32	5-9/32	2-29/32	2-1/16	1.68
829-420C	4x2	5-1/2	5-9/32	2-7/8	1-25/32	1.50
829-421C	4x2-1/2	4-9/16	5-3/16	3-1/2	17/32	1.35
829-422C	4x3	4-19/32	5-1/4	4-3/16	15/32	1.33
829-488CF	5x3	7-15/16	6-1/4	5-3/16	2-15/16	3.13
829-490CF	5x4	7-3/4	6-1/4	5-3/16	2-1/2	2.53
829-528C <sup>1</sup>	6x2	7-1/16	7-1/2	5	2-9/16	4.42
829-529C	6x2-1/2	6-31/32	7-19/32	5-9/32	2-3/16	4.72
829-530C <sup>1</sup>	6x3	7-1/8	7-9/16	5-9/32	2-1/4	4.25
829-530CF	6x3	9-1/4	7-5/16	5-3/16	4-3/16	4.22
829-532C	6x4	6-5/8	7-5/8	5-5/16	1-7/16	3.45
829-533CF	6x5	8-15/16	7-3/8	6-5/16	2-11/16	3.93
829-580CF	8x3	15	9-1/2	5-3/16	8-7/8	8.74
829-582C	8x4	8-29/32	9-23/32	5-1/4	2-15/32	6.47
829-582CF	8x4	14-5/8	9-1/2	5-3/16	8-1/8	9.36
829-583CF	8x5	14-11/16	9-1/2	6-5/16	7-7/16	8.30
829-585C	8x6	8	9-3/4	7-1/2	1	6.48
829-621CF	10x2	21-1/2	11-3/4	5-3/16	14-3/42	17.05
829-623CF	10x3	21-1/2	11-3/4	5-3/16	14-7/16	17.18
829-624CF	10x4	21-1/8	11-3/4	5-3/16	13-5/8	16.54
829-625CF	10x5	21-3/16	11-3/4	6-5/16	12-15/16	16.94
829-626C	10x6	10-19/32	12-1/32	7-19/32	2-17/32	11.43
829-626CF	10x6	17-5/8	11-3/4	7-1/2	9-1/8	15.00
829-628C	10x8	10-5/8	12	9-3/4	1-17/32	11.44
829-628CF	10x8	13-3/8	11-3/4	9-5/8	3-7/8	12.00
829-664CF	12x4	28-3/8	13-15/16	5-3/16	19-7/8	32.77
829-665CF	12x5	28-7/16	13-15/16	6-5/16	19-3/16	33.24
829-666CF	12x6	24-7/8	13-15/16	7-1/2	15-3/8	25.86
829-668C	12x8	12-5/8	14-7/32	9-3/4	2-7/16	19.26

<sup>1</sup> Outlet sized with bushing

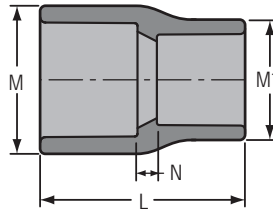


Schedule 80 CPVC Technical Information  
**Schedule 80 CPVC Fittings**

**REDUCER COUPLING**

(continued)

Socket x Socket



Part Number	Size	L	M	M1	N	Approx. Wt. (Lbs.)
829-668CF	12x8	20-5/8	13-15/16	9-5/8	10-1/8	24.34
829-670CF	12x10	16-3/8	13-15/16	11-15/16	4-7/8	20.77
829-694CF	14x4	30-1/8	15-3/16	5-3/16	20-7/8	32.89
829-696CF	14x6	26-5/8	15-3/16	7-1/2	16-3/8	31.45
829-698CF	14x8	22-3/8	15-3/16	9-5/8	11-1/8	27.69
829-700CF	14x10	18-1/8	15-3/16	11-15/16	5-7/8	26.86
829-702CF	14x12	17-3/4	15-3/8	14-1/8	4-1/2	29.14
829-754CF	16x4	38	17-3/8	5-3/16	27-3/4	50.97
829-756CF	16x6	34-1/2	17-3/8	7-1/2	23-1/4	54.03
829-758CF	16x8	30-1/4	17-3/8	9-5/8	18	54.00
829-760CF	16x10	26	17-3/8	11-15/16	12-3/4	51.35
829-762CF	16x12	20-1/4	17-3/8	14-1/8	6	65.63
829-764CF	16x14	21-1/4	17-1/2	15-1/2	5-1/4	50.00
829-784CF	18x4	47-3/8	19-11/16	5-3/16	36-1/8	107.14
829-786CF	18x6	43-7/8	19-11/16	7-1/2	31-5/8	105.76
829-788CF	18x8	39-5/8	19-11/16	9-5/8	26-3/8	101.60
829-790CF	18x10	35-3/8	19-11/16	11-15/16	21-1/8	89.54
829-792CF	18x12	29-5/8	19-11/16	14-1/8	14-3/8	76.67
829-794CF	18x14	29-5/8	19-11/16	15-1/2	13-5/8	87.00
829-796CF	18x16	23	19-11/16	17-11/16	6	63.70
829-814CF	20x4	58	21-7/8	5-3/16	45-3/4	159.76
829-816CF	20x6	54-1/2	21-7/8	7-1/2	41-1/4	158.17
829-818CF	20x8	50-1/4	21-7/8	9-5/8	36	154.50
829-820CF	20x10	46	21-7/8	11-15/16	30-3/4	146.56
829-822CF	20x12	40-1/4	21-7/8	14-1/8	24	137.46
829-824CF	20x14	40-1/4	21-7/8	15-1/2	23-1/4	---
829-826CF	20x16	33-5/8	21-7/8	17-11/16	15-5/8	115.51
829-828CF	20x18	25-1/2	21-7/8	19-7/8	6-1/2	---
829-904CF	24x4	71-1/2	26-1/16	5-3/16	57-1/4	241.69
829-906CF	24x6	68	26-1/16	7-1/2	52-3/4	240.34
829-908CF	24x8	63-3/4	26-1/16	9-5/8	47-1/2	236.18
829-910CF	24x10	59-1/2	26-1/16	11-15/16	42-1/4	270.28
829-912CF	24x12	53-3/4	26-1/16	14-1/8	35-1/2	219.13
829-914CF	24x14	53-3/4	26-1/16	15-1/2	34-3/4	---
829-916CF	24x16	47-1/8	26-1/16	17-11/16	27-1/8	179.54
829-918CF	24x18	39	26-1/16	19-7/8	18	167.74
829-920CF	24x20	30-5/8	26-1/16	22-1/16	8-5/8	139.32