

CPVC schedule 40 pipe

Scope

This specification covers requirements for schedule 40 CPVC pressure pipe as described in ASTM F-441.

Material

CPVC used is Type IV, Grade I compound, cell classification 23447-B per ASTM D-1784.

Dimensions:

Dimensions and tolerances shall be as shown in the following tables when measured according to Method D-2122. Tolerances for out-of-roundness shall apply only to pipe prior to shipment.

Marking

Indicates manufacturer's name, material designation code, nominal pipe size, schedule size with pressure rating in PSI for water at 73°F, ASTM designation number F-441.

Schedule 40 Dimensions

Unit:inch

Nom. Pipe Size (in)	O.D.	Average I.D.	Min. Wall	Nom Wt./Ft	Max W.P. PSI	Code
1/4	0.540	0.344	0.088	0.096	780	41-PIO-04-0008
3/8	0.675	0.473	0.091	0.128	620	41-PIO-04-0010
1/2	0.840	0.602	0.109	0.109	600	41-PIO-04-0015
3/4	1.050	0.804	0.113	0.253	480	41-PIO-04-0020
1	1.315	1.029	0.133	0.371	450	41-PIO-04-0025
1-1/4	1.660	1.360	0.140	0.502	370	41-PIO-04-0032
1-1/2	1.900	1.590	0.145	0.599	330	41-PIO-04-0040
2	2.375	2.047	0.154	0.803	280	41-PIO-04-0050
2-1/2	2.875	2.445	0.203	1.267	300	41-PIO-04-0065
3	3.500	3.042	0.216	1.660	260	41-PIO-04-0080
3-1/2	4.000	3.521	0.226	1.996	240	41-PIO-04-0090
4	4.500	3.998	0.237	2.363	220	41-PIO-04-0100
5	5.563	5.016	0.258	2.874	190	41-PIO-04-0125
6	6.625	6.031	0.280	4.164	180	41-PIO-04-0150
8	8.625	7.942	0.322	6.286	160	41-PIO-04-0200
10	10.750	9.975	0.365	8.886	140	41-PIO-04-0250
12	12.750	11.889	0.406	11.751	130	41-PIO-04-0300
14	14.000	13.073	0.437	13.916	130	41-PIO-04-0350
16	16.000	14.940	0.500	18.167	130	41-PIO-04-0400
18	18.000	16.809	0.562	22.965	130	41-PIO-04-0450
20	20.000	18.743	0.593	29.976	120	41-PIO-04-0500
24	24.000	22.544	0.687	37.539	120	41-PIO-04-0600

CPVC schedule 80 pipe

Scope

This specification covers requirements for schedule 80 CPVC pressure pipe as described in ASTM F-441.

Material

CPVC used is Type IV, Grade I compound, cell classification 23447-B per ASTM D-1784.

Dimensions

Dimensions and tolerances shall be as shown in the following tables when measured according to Method D-2122. Tolerances for out-of-roundness shall apply only to pipe prior to shipment.

Marking

Indicates manufacturer's name, material designation code, nominal pipe size, schedule size with pressure rating in PSI for water at 73°F, ASTM designation number F-441.

Schedule 80 Dimensions

Unit:inch

Nom. Pipe Size (in)	O.D.	Average I.D.	Min. Wall	Nom Wt./Ft	Max W.P. PSI	Code
1/4	0.540	0.282	0.119	0.117	1130	41-PIO-08-0008
3/8	0.675	0.403	0.126	0.162	920	41-PIO-08-0010
1/2	0.840	0.526	0.147	0.238	850	41-PIO-08-0015
3/4	1.050	0.722	0.154	0.322	690	41-PIO-08-0020
1	1.315	0.936	0.179	0.473	630	41-PIO-08-0025
1-1/4	1.660	1.255	0.191	0.654	520	41-PIO-08-0032
1-1/2	1.900	1.476	0.200	0.793	470	41-PIO-08-0040
2	2.375	1.913	0.218	1.097	400	41-PIO-08-0050
2-1/2	2.875	2.290	0.276	1.674	420	41-PIO-08-0065
3	3.500	2.864	0.300	2.242	370	41-PIO-08-0080
3-1/2	4.000	3.326	0.318	2.735	350	41-PIO-08-0090
4	4.500	3.786	0.337	3.277	320	41-PIO-08-0100
5	5.563	4.768	0.375	4.078	290	41-PIO-08-0125
6	6.625	5.709	0.432	6.258	280	41-PIO-08-0150
8	8.625	7.565	0.500	9.508	250	41-PIO-08-0200
10	10.750	9.493	0.593	14.095	230	41-PIO-08-0250
12	12.750	11.294	0.687	19.392	230	41-PIO-08-0300
14	14.000	12.310	0.750	23.261	220	41-PIO-08-0350
16	16.000	14.213	0.843	29.891	220	41-PIO-08-0400
18	18.000	16.014	0.937	35.419	220	41-PIO-08-0450
20	20.000	17.814	1.031	45.879	220	41-PIO-08-0500
24	24.000	21.418	1.281	64.959	210	41-PIO-08-0600