



Schedule 80 Rigid PVC Piping Systems

SCHEDULE 80 - DIMENSIONS

Harvel Clear pipe and fittings are manufactured in IPS sizes to Schedule 80 dimensions for optimum performance. This provides sufficient wall thickness for most pressure applications without jeopardizing clarity. As a rigid PVC piping, Harvel Clear PVC maintains its integrity in harsh environments. It is suitable for use in both positive and negative pressure applications (i.e., vacuum service).

As with all schedules of thermoplastic pipe, pressure rating is dependent on the pipe diameter selected as well as the operating temperature of the system. As temperatures rise, the pressure rating of the system decreases. Smaller diameter piping can withstand higher pressures than large diameter piping at elevated temperatures. Refer to the table below for dimensions, tolerances and pressure ratings.

Dimensions and Pressure Ratings

Nominal Pipe Size (in)	O.D.	Average I.D.	Min. Wall	Nominal Wt./Ft.	Max. W.P. PSI**
1/4"	.540	.282	0.119	0.105	570
3/8"	.675	.403	0.126	0.146	460
1/2"	.840	.526	0.147	0.213	420
3/4"	1.050	.722	0.154	0.289	340
1"	1.315	.936	0.179	0.424	320
1-1/4"	1.660	1.255	0.191	0.586	260
1-1/2"	1.900	1.476	0.200	0.711	240
2"	2.375	1.913	0.218	0.984	200
2 1/2"	2.875	2.289	0.276	1.419	210
3"	3.500	2.864	0.300	2.010	190
4"	4.500	3.786	0.337	2.938	160
6"	6.625	5.709	0.432	5.313	140

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Critical Collapse Pressure

Pipe Size (in)	psi @ 73°F
1/4	22172
3/8	11869
1/2	9370
3/4	4985
1	3841
1-1/4	2158
1-1/2	1599
2	1014
2-1/2	1176
3	809
3-1/2	632
4	521
6	333

De-rating Factor

Operating Temp °F	De-rating Factor
73	1.00
80	0.88
90	0.75
100	0.62
110	0.51
120	0.40
130	0.31
140	0.22

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