



Schedule 40 Rigid PVC Piping Systems

SCHEDULE 40 - DIMENSIONS

Harvel Clear pipe and fittings are manufactured in IPS sizes to Schedule 40 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. 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"	0.540	0.344	0.088	0.086	390
3/8"	0.675	0.473	0.091	0.115	310
1/2"	0.840	0.602	0.109	0.170	300
3/4"	1.050	0.804	0.113	0.226	240
1"	1.315	1.029	0.133	0.333	220
1-1/4"	1.660	1.360	0.140	0.450	180
1-1/2"	1.900	1.590	0.145	0.537	170
2"	2.375	2.047	0.154	0.720	140
2-1/2"	2.875	2.445	0.203	1.136	150
3"	3.500	3.042	0.216	1.488	130
3-1/2"	4.000	3.521	0.226	1.789	120
4"	4.500	3.998	0.237	2.118	110
6"	6.625	6.031	0.280	3.733	90
6" X 1/8	6.625	6.335	0.110	1.647	45
8"	8.625	7.942	0.322	5.619	80
10"	10.750	9.976	0.365	7.966	70
12"	12.750	11.889	0.406	10.534	70

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Critical Collapse Pressure

Pipe Size (in)	psi @ 73°F
1/4	7504
3/8	3714
1/2	3255
3/4	1722
1	1399
1-1/4	767
1-1/2	554
2	327
2-1/2	431
3	279
3-1/2	211
4	169
6	84
8	57
10	43
12	35

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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