

Harvel EnviroKingUV Schedule 40

In addition to ThinWall™, Harvel® EnviroKing® UV is also manufactured in IPS sizes to Schedule 40 dimensions, which provide sufficient wall thickness for many pressure **applications**. 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.

Product Ratings

Harvel® EnviroKing® UV piping is available in two iron pipe size (IPS) pipe dimensions; ThinWall™ dimensions specifically developed for use in photobioreactor construction, and standard Schedule 40 dimensions.

Pressure ratings are dependent on the pipe diameter selected, the wall thickness, and 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 for dimensions, tolerances, and pressure ratings. The temperature de-rating factors shown at right are to be multiplied by the pressure ratings listed to determine the maximum pressure rating of the pipe at elevated temperatures.

Dimensions and Pressure Ratings					
Nominal Pipe Size (inches)	O.D.	Average I.D.	Min. Wall	Nominal Wt./Ft.	Max. W.P. PSI*
½	0.840	0.602	0.109	0.170	300
¾	1.050	0.804	0.113	0.226	240
1	1.315	1.029	0.133	0.333	220
1¼	1.660	1.360	0.140	0.450	180
1½	1.900	1.590	0.145	0.537	170
2	2.375	2.047	0.154	0.720	140
2½	2.875	2.445	0.203	1.136	150
3	3.500	3.042	0.216	1.488	130
3½	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

*Pressure ratings shown are for water, non-shock@73°F

De-rating Factors	
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

