



EnviroKing[®]

UV Resistant Clear PVC Piping

UV

[Home](#) » [ThinWall](#)

Harvel EnviroKingUV ThinWall

Harvel[®] EnviroKing[®]UV ThinWall[™] is a low-pressure containment pipe which provides optimum dimensions for use as photobioreactor vessels and similar green technology applications. For example, when used in photobioreactors, the unique wall dimensions improve light transmission characteristics beneficial for enhanced algae growth, while maintaining product rigidity.

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*
2	2.375	2.173	0.091	0.456	80
3	3.500	3.210	0.135	0.966	80
4	4.500	4.134	0.173	1.569	80
6	6.625	6.251	0.172	2.391	70
8	8.625	8.251	0.172	3.134	53
10	10.750	10.376	0.172	3.923	43
12	12.750	12.376	0.172	4.666	36

*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