

PREMIER PLASTICS INC.

TOTAL ORIFICE X-SECTIONAL AREA- CONVERSION MULTIPLIER

For use when estimating squirt heights

To use sizing graphs and tables convert design orifices to equivalent number of 3/16" orifices that will give same residual head and squirt height.

Example 1) 50 orifices at 1/4" diameter converts to 50 x 1.780(from table) = 89 equivalent 3/16" orifices.

Example 2) 25 orifices at 3/8" diameter will give same squirt height as 25 x 4.000(from table) = 100 equivalent 3/16" orifices.

CONVERT TO →	1/8"	5/32"	3/16"	7/32"	1/4"	3/8"	1/2"	5/8"
CONVERT FROM ↓	MULTIPLIERS ↓							
5/8"	25.000	16.000	11.100	3.160	6.250	2.780	1.560	1.000
1/2"	16.000	10.200	7.110	5.220	3.980	1.710	1.000	0.640
3/8"	9.000	5.760	4.000	2.940	2.250	1.000	0.580	0.360
1/4"	4.000	2.560	1.780	1.310	1.000	0.444	0.251	0.160
7/32"	3.640	1.960	1.360	1.000	0.766	0.340	0.191	0.123
3/16"	2.250	1.440	1.000	0.735	0.563	0.250	0.141	0.090
5/32"	1.560	1.000	0.694	0.510	0.391	0.174	0.977	0.063
1/8"	1.000	0.640	0.444	0.326	0.250	0.111	0.063	0.040