

Pressure Drop Table Expressed as PSI/FT Pressure Drop

GPM	SIZE					GPM	SIZE		
	3/8"	1/2"	5/8"	3/4"	1"		1 1/4"	1 1/2"	2"
1	.070	.016				10	.023		
1.5	.149	.034				11	.028		
2	.254	.058	.023			12	.033		
2.5	*.385	.087	.035			13	.038		
3	.539	.122	.048	.023		14	.044		
3.5	.717	.162	.065	.030		16	.056	.025	
4		*.208	.083	.039		18	.069	.031	
5		.314	.125	.059		20	.084	.038	
6		.440	.175	.082	.024	22	.101	.045	
7		.586	*.233	.109	.032	24	*.118	.053	
8			.298	.140	.041	26	.137	.061	
9			.371	*.174	.051	28	.157	.070	
10			.451	.211	.062	30	.179	*.080	.021
11				.252	.074	32	.202	.090	.024
12				.296	.087	34		.101	.027
13				.343	.101	36		.112	.030
14					.116	38		.124	.033
16					*.148	40		.136	.036
18					.184	45			.045
20					.224	50			.055
22					.267	55			*.066
24						60			.077
26						65			.089
28						70			.103
30						75			.116

* Indicates 8 fps maximum velocity required by some plumbing codes.

NOTE: Maximum flow for each size based on 12 FPS velocity.
PSI x 2.307 = head loss.

EXAMPLE: To calculate the pressure drop of a 1/2" line, 40 ft. long, with a 3 gpm flow rate, calculate .122 psi x 40 ft. = 4.9 psi pressure drop. Most plumbing codes require 8 psi residual pressure at the fixture. Refer to your local code requirements.