



## Flow Data / Frictional Resistance

### FLOW DATA / FRICTIONAL RESISTANCE

Expressed as equivalent length of straight pipe

Nominal Size mm/in	Pipe O. D. mm/in	Pipe Wall Thickness mm/in	Elbows			Tees	
			V-7110 90° Std. Radius meters / feet	V-901 90° Short Radius meters / feet	V-7111 45° Std. Radius meters / feet	V-7120 Branch meters / feet	V-903 Branch meters / feet
25	33.4	3.4	0.5	---	0.2	1.3	---
1	1.315	0.133	1.7	---	0.8	4.2	---
32	42.2	3.6	0.8	0.8	0.3	1.4	1.4
1-1/4	1.660	0.140	2.5	2.5	1.0	4.7	4.7
40	48.3	4.0	1.1	1.1	0.5	2.0	2.0
1-1/2	1.900	0.154	3.5	3.5	1.5	6.5	6.5
50	60.3	5.2	1.2	1.2	0.5	2.6	2.6
2	2.375	0.203	4.0	4.0	1.7	8.5	8.5
65	73.0	5.0	1.4	1.4	0.6	3.1	3.1
2-1/2	2.875	0.197	4.5	4.5	2.0	10.0	10.0
80	88.9	6.3	1.5	1.5	0.8	3.7	3.7
3	3.500	0.237	5.0	5.0	2.5	12.0	12.0
100	114.3	5.6	2.0	2.0	0.9	4.6	4.6
4	4.500	0.220	6.7	6.7	3.0	15.0	15.0
125	141.3	6.6	2.3	2.3	1.2	5.8	5.8
5	5.563	0.258	7.5	7.5	4.0	19.0	19.0
150	168.3	7.1	2.7	2.7	1.4	6.7	6.7
6	6.625	0.280	9.0	9.0	4.5	22.0	22.0
200	219.1	8.2	4.0	4.0	2.0	10.1	10.1
8	8.625	0.322	13.0	13.0	6.5	33.0	33.0
250	273.0	8.8	5.2	---	2.5	12.5	---
10	10.750	0.365	17.0	---	8.3	41.0	---
300	323.9	9.5	6.1	---	3.1	14.9	---
12	12.750	0.375	20.0	---	10.0	49.0	---