

TMI® Pipe Flow/Velocity Guide

see page A5 for connection pressure rating

TABLE 2.

Nominal Pipe Size		Internal Area	Bore Dia. (in)	Line Velocity						
				GPM@ 2FPS	GPM@ 5FPS	GPM@ 10FPS	GPM@ 15FPS	GPM@ 20FPS	GPM@ 25FPS	GPM@ 30FPS
1/2"	Sch40	0.304	0.622	1.9	4.7	9.5	14.2	18.9	23.7	28.4
	Sch80	0.234	0.546	1.5	3.6	7.3	10.9	14.6	18.2	21.9
3/4"	Sch40	0.533	0.824	3.3	8.3	16.6	24.9	33.2	41.6	49.9
	Sch80	0.432	0.742	2.7	6.7	13.5	20.2	27.0	33.7	40.4
1"	Sch40	0.864	1.049	5.4	13.5	26.9	40.4	53.9	67.3	80.8
	Sch80	0.719	0.957	4.5	11.2	22.4	33.6	44.8	56.0	67.3
1 1/4"	Sch40	1.496	1.380	9.3	23.3	46.6	69.9	93.2	116.5	139.9
	Sch80	1.283	1.278	8.0	20.0	40.0	60.0	80.0	100.0	119.9
1 1/2"	Sch40	2.036	1.610	12.7	31.7	63.5	95.2	126.9	158.6	190.4
	Sch80	1.767	1.500	11.0	27.5	55.1	82.6	110.2	137.7	165.2
	Sch160	1.406	1.338	8.8	21.9	43.8	65.7	87.7	109.6	131.5
	Heavy Wall	1.852	1.540	11.5	28.9	57.7	86.6	115.4	144.3	173.1
2"	Sch40	3.356	2.067	20.9	52.3	104.6	156.9	209.2	261.5	313.8
	Sch80	2.953	1.939	18.4	46.0	92.0	138.1	184.1	230.1	276.1
	Sch160	2.235	1.687	13.9	34.8	69.7	104.5	139.4	174.2	209.0
	Heavy Wall	2.923	1.930	18.2	45.6	91.1	136.7	182.2	227.8	273.3
2 1/2"	Sch40	4.788	2.469	29.8	74.6	149.2	223.8	298.5	373.1	447.7
	Sch80	4.238	2.323	26.4	66.1	132.1	198.2	264.2	330.3	396.3
	Sch160	3.547	2.125	22.1	55.3	110.6	165.8	221.1	276.4	331.7
	Heavy Wall	4.383	2.360	27.3	68.3	136.6	204.9	273.2	341.5	409.8
3"	Sch40	7.393	3.068	46.1	115.2	230.4	345.6	460.8	576.1	691.3
	Sch80	6.605	2.900	41.2	102.9	205.9	308.8	411.8	514.7	617.6
	Heavy Wall	6.487	2.870	40.4	101.1	202.2	303.3	404.4	505.5	606.6
4"	Sch40	12.730	4.026	79.4	198.4	396.8	595.2	793.6	992.0	1190.4
	Sch80	11.500	3.826	71.7	179.2	358.4	537.6	716.8	896.0	1075.4
	SchXXS	7.803	3.152	48.6	121.6	243.2	364.9	486.5	608.1	729.8
	Heavy Wall	8.795	3.350	54.8	137.1	274.1	411.2	548.3	685.4	822.4
5"	Sch40	20.006	5.047	124.7	311.8	623.6	935.3	1247.1	1558.9	1870.7
	SchXXS	14.610	4.063	91.1	227.7	455.4	683.1	910.8	1138.4	1366.1
6"	Sch40	28.890	6.065	180.1	450.2	900.5	1350.7	1801.1	2251.2	2701.4
	SchXXS	21.147	4.897	131.8	329.6	659.1	988.7	1318.3	1647.9	1977.4
8"	Sch40	50.027	7.981	311.9	779.6	1559.3	2338.9	3118.6	3898.2	4677.8
	Sch160	36.456	6.813	227.3	568.1	1136.3	1704.4	2272.6	2840.7	3408.9