

VELOCITY CHART

IN FEET PER SECOND

U.S. Gals. per min.	½" Pipe		¾" Pipe		1" Pipe		1¼" Pipe		1½" Pipe		2" Pipe		2½" Pipe		3" Pipe		4" Pipe		5" Pipe		6" Pipe		U.S. Gals. per min.
	Vel. ft. per Sec.	Loss in Feet	Vel. ft. per Sec.	Loss in Feet	Vel. ft. per Sec.	Loss in Feet	Vel. ft. per Sec.	Loss in Feet	Vel. ft. per Sec.	Loss in Feet	Vel. ft. per Sec.	Loss in Feet	Vel. ft. per Sec.	Loss in Feet	Vel. ft. per Sec.	Loss in Feet	Vel. ft. per Sec.	Loss in Feet	Vel. ft. per Sec.	Loss in Feet	Vel. ft. per Sec.	Loss in Feet	
2	2.10	7.4	1.20	1.9	1.49	2.14	1.86	2.57	2.01	2.23	2.79	2.23	2.54	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2
4	4.21	27.0	2.41	7.0	2.98	10.28	3.72	13.14	4.46	16.4	5.30	18.8	6.6	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4
6	6.31	57.0	3.61	14.7	4.46	16.4	5.30	18.8	6.6	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	6
8	8.42	98.0	4.81	25.0	5.95	21.2	7.15	25.0	8.58	30.0	10.0	35.0	12.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	8
10	10.52	147.0	6.02	38.0	7.15	25.0	8.58	30.0	10.0	35.0	12.0	35.0	15.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	10
12			7.22	53.0	7.22	53.0	7.22	53.0	7.22	53.0	7.22	53.0	7.22	53.0	7.22	53.0	7.22	53.0	7.22	53.0	7.22	53.0	12
15			9.02	80.0	9.02	80.0	9.02	80.0	9.02	80.0	9.02	80.0	9.02	80.0	9.02	80.0	9.02	80.0	9.02	80.0	9.02	80.0	15
18			10.84	108.2	10.84	108.2	10.84	108.2	10.84	108.2	10.84	108.2	10.84	108.2	10.84	108.2	10.84	108.2	10.84	108.2	10.84	108.2	18
20			12.03	136.0	12.03	136.0	12.03	136.0	12.03	136.0	12.03	136.0	12.03	136.0	12.03	136.0	12.03	136.0	12.03	136.0	12.03	136.0	20
25					14.88	152.0	14.88	152.0	14.88	152.0	14.88	152.0	14.88	152.0	14.88	152.0	14.88	152.0	14.88	152.0	14.88	152.0	25
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Friction loss of water in feet per 100 feet length of pipe; based on the Williams & Hazen formula using constant 100 sizes of standard pipe in inches. For new smooth pipe, use 71% of these values.