

# VELOCITY CHART

## IN FEET PER SECOND

U.S. Gals. per min.	1/4" Pipe		3/8" Pipe		1" Pipe		1 1/4" Pipe		1 1/2" Pipe		2" Pipe		2 1/2" 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	.86	.57	.63	.26													2
4	4.21	27.0	2.41	7.0	2.23	4.59	1.29	1.20	.94	.56	.61	.20											4
6	6.31	57.0	3.61	14.7	2.98	7.8	1.72	2.03	1.26	.95	.82	.33	.52	.11									6
8	8.42	98.0	4.81	25.0	3.72	11.7	2.14	3.05	1.57	1.43	1.02	.50											8
10	10.52	147.0	6.02	38.0	4.46	16.4	2.57	4.3	1.89	2.01	1.23	.79	.78	.23	.54	.10							10
12			7.22	55.0	5.60	25.0	3.21	6.5	2.36	3.00	1.53	1.08	.98	.36	.68	.15							12
15			10.84	108.2	6.69	35.0	3.86	9.1	2.83	4.24	1.84	1.49	1.18	.50	.82	.21							15
18			12.03	136.0	7.44	42.0	4.29	11.1	3.15	5.20	2.04	1.82	1.31	.61	.91	.25	.51	.06					18
20					9.30	64.0	5.36	16.6	3.80	7.30	2.55	2.73	1.63	.92	1.13	.38	.64	.09					20
25					11.15	89.0	6.43	23.0	4.72	11.0	3.06	3.84	1.96	1.29	1.36	.54	.77	.13			.04		25
30					13.02	119.0	7.51	31.2	5.51	14.7	3.57	5.10	2.29	1.72	1.59	.71	.89	.17	.49	.06			30
35																							35
40					14.88	162.0	8.58	40.0	6.30	18.8	4.08	6.6	2.61	2.20	1.82	.91	1.02	.22	.65	.08			40
45							9.65	50.0	7.08	23.2	4.60	8.2	2.94	2.80	2.04	1.15	1.15	.28	.73	.09			45
50							10.72	60.0	7.87	28.4	5.11	9.9	3.27	3.32	2.27	1.38	1.28	.34	.82	.11	.57	.04	50
55							11.78	72.0	8.66	34.0	5.62	11.8	3.59	4.01	2.45	1.58	1.41	.41	.90	.14	.62	.05	55
60							12.87	85.0	9.44	39.6	6.13	13.9	3.92	4.65	2.72	1.92	1.53	.47	.98	.16	.68	.06	60
65							13.92	99.7	10.23	45.9	6.64	16.1	4.24	5.4	2.89	2.16	1.66	.53	1.06	.19	.74	.07	65
70							15.01	113.0	11.02	53.0	7.15	18.4	4.58	6.2	3.18	2.57	1.79	.63	1.14	.21	.79	.08	70
75							16.06	129.0	11.80	60.0	7.66	20.9	4.91	7.1	3.33	3.00	1.91	.73	1.22	.24	.85	.10	75
80							17.16	146.0	12.59	68.0	8.17	23.5	5.23	7.9	3.63	3.28	2.04	.81	1.31	.27	.91	.11	80
85							18.21	163.8	13.38	75.0	8.68	26.6	5.56	8.1	3.78	3.54	2.17	.91	1.39	.31	.96	.12	85
90							19.30	180.0	14.17	84.0	9.19	29.4	5.88	9.8	4.09	4.08	2.30	1.00	1.47	.34	1.02	.14	90
95									14.95	93.0	9.70	32.6	6.21	10.8	4.22	4.33	2.42	1.12	1.55	.38	1.08	.15	95
100									15.74	102.0	10.21	36.8	6.54	12.0	4.54	4.96	2.55	1.22	1.63	.41	1.13	.17	100
110									17.31	122.0	11.23	42.9	7.18	14.5	5.00	6.0	2.81	1.46	1.79	.49	1.25	.21	110
120									18.89	143.0	12.25	50.0	7.84	16.7	5.46	7.0	3.06	1.77	2.04	.58	1.36	.24	120
130									20.46	166.0	13.28	58.0	8.48	18.7	5.91	8.1	3.31	1.97	2.12	.67	1.47	.27	130
140									22.04	190.0	14.30	67.0	9.15	22.3	6.35	9.2	3.57	2.28	2.29	.76	1.59	.32	140
150	.96	.08									15.32	76.0	9.81	25.5	6.82	10.5	3.82	2.62	2.45	.88	1.70	.36	150
160	1.02	.10									16.34	86.0	10.46	29.0	7.26	11.8	4.08	2.91	2.61	.98	1.82	.40	160
170	1.08	.11									17.36	96.0	11.11	34.1	7.71	13.3	4.33	3.26	2.77	1.08	1.92	.45	170
180	1.15	.13									18.38	107.0	11.76	35.7	8.17	14.0	4.60	3.61	2.94	1.22	2.04	.50	180
190	1.21	.14									19.40	118.0	12.42	39.6	8.63	15.5	4.84	4.01	3.10	1.35	2.16	.55	190
200	1.28	.15									20.42	129.0	13.07	43.1	9.08	17.8	5.11	4.4	3.27	1.48	2.27	.62	200
210	1.40	.18									22.47	154.0	14.38	52.0	9.99	21.3	5.62	5.2	3.59	1.77	2.50	.73	210
240	1.53	.22	.98	.07							24.51	182.0	15.69	61.0	10.89	25.1	6.13	6.2	3.92	2.08	2.72	.87	240
260	1.66	.25	1.06	.08							26.55	211.0	16.99	70.0	11.80	29.1	6.64	7.2	4.25	2.41	2.95	1.00	260
280	1.79	.28	1.15	.09							18.30	81.0	12.71	33.4	7.15	8.2	4.58	2.77	3.18	1.14	2.80	1.14	280
300	1.91	.32	1.22	.11							19.61	92.0	13.62	38.0	7.66	9.3	4.90	3.14	3.40	1.32	3.00	1.32	300
320	2.05	.37	1.31	.12							20.92	103.0	14.52	42.8	8.17	10.6	5.23	3.54	3.64	1.47	3.20	1.47	320
340	2.18	.41	1.39	.14							22.22	116.0	15.43	47.9	8.68	11.7	5.54	3.97	3.84	1.62	3.40	1.62	340
360	2.30	.45	1.47	.15							23.53	128.0	16.34	53.0	9.19	13.1	5.87	4.41	4.08	1.83	3.60	1.83	360
380	2.43	.50	1.55	.17	1.08	.069					24.84	142.0	17.25	59.0	9.69	14.6	6.19	4.86	4.31	2.00	3.80	2.00	380
400	2.60	.54	1.63	.19	1.14	.075					26.14	156.0	18.16	65.0	10.21	16.0	6.54	5.4	4.55	2.20	4.00	2.20	400
450	2.92	.68	1.84	.23	1.28	.95					20.40	78.0	11.49	19.8	7.35	6.7	5.11	6.7	5.11	2.74	4.50	2.74	450
500	3.19	.82	2.04	.28	1.42	1.13	1.04	.06			22.70	98.0	12.77	24.0	8.17	8.1	5.68	2.90	5.68	2.90	5.00	2.90	500
550	3.62	.97	2.24	.33	1.56	1.35	1.15	.07			24.96	117.0	14.04	28.7	8.99	9.6	6.25	3.96	6.25	3.96	5.50	3.96	550
600	3.84	1.14	2.45	.39	1.70	1.59	1.25	.08					27.23	137.0	15.32	33.7	9.80	11.3	6.81	4.65	6.00	4.65	600
650	4.16	1.34	2.65	.45	1.84	1.9	1.37	.09					16.59	39.0	10.62	13.2	7.38	5.40	7.38	5.40	7.00	5.40	650
700	4.46	1.54	2.86	.52	1.99	2.2	1.46	.10					17.87	44.5	11.44	15.1	7.95	6.21	7.95	6.21	7.00	6.21	700
750	4.80	1.74	3.06	.59	2.13	2.4	1.58	.11					19.15	51.0	12.26	17.2	8.50	7.12	8.50	7.12	7.50	7.12	750
800	5.10	1.90	3.26	.66	2.27	2.7	1.67	.13					20.42	57.0	13.07	19.4	9.08	7.96	9.08	7.96	8.00	7.96	800
850	5.48	2.20	3.47	.75	2.41	3.1	1.79	.14	1.36	.08			21.70	64.0	13.89	21.7	9.65	8.95	9.65	8.95	8.50	8.95	850
900	5.75	2.46	3.67	.83	2.56	3.4	1.88	.16	1.44	.084					22.98	71.0	14.71	24.0	10.20	10.11	9.00	10.11	900
950	6.06	2.87	3.88	.91	2.70	3.8	2.00	.18	1.52	.096						15.52	26.7	10.77	11.20	9.50	11.20	950	
1000	6.38	2.97	4.08	1.03	2.84	4.1	2.10	.19	1.60	.10	1.02	.04				16.34	29.2	11.34	12.04	10.00	12.04	1000	
1100	7.03	3.52	4.49	1.19	3.13	4.9	2.31	.23	1.76	.12	1.12	.04				17.97	34.9	12.48	14.55	11.00	14.55	1100	
1200	7.66	4.17	4.90	1.40	3.41	5.8	2.52	.27	1.92	.14	1.23	.05				19.61	40.9	13.61	17.10	12.00	17.10	1200	
1300	8.30	4.85	5.31	1.62	3.69	6.7	2.71	.32	2.08	.17	1.33	.06				14.72	18.4			13.00		1300	
1400	8.95	5.50	5.71	1.87	3.98	7.8	2.92	.36	2.24	.19	1.43	.064				15.90	22.60			14.00	22.60	1400	
1500	9.58	6.24	6.12	2.13	4.26	8.9	3.15	.41	2.39	.21	1.53	.07				17.02	25.60			15.00	25.60	1500	
1600	10.21	7.00	6.53	2.39	4.55	9.8	3.34	.47	2.56	.24	1.63	.08				18.10	26.9			16.00	26.9	1600	
1800	11.50	8.78	7.35	2.96	5.11	1.21	3.75	.58	2.87	.30	1.84	.10	1.28	.04						18.00		1800	
2000	12.78	10.71	8.16	3.59	5.68	1.49	4.17	.71	3.19	.37	2.04	.12	1.42	.05						20.00		2000	
2200	14.05	12.78	8.98	4.24	6.25	1.81	4.59	.84															