



FRICTION LOSS CHARACTERISTICS

PVC Schedule 40 Plastic Pipe IPS Dimensions

PVC 1120, 1220 C=150

Loss per 100 feet of pipe in PSI

Size	½"	¾"	1"	1¼"	1½"	2"	2½"	3"	4"	Size											
OD	0.814	1.050	1.315	1.660	1.900	2.375	2.875	3.500	4.500	OD											
ID	0.622	0.824	1.049	1.380	1.610	2.067	2.469	3.068	4.026	ID											
Wall	0.109	0.113	0.133	0.140	0.145	0.154	0.203	0.216	0.237	Wall											
Flow GPM	Velocity FPS	PSI Loss	Velocity FPS	PSI Loss	Velocity FPS	PSI Loss	Velocity FPS	PSI Loss	Velocity FPS	PSI Loss	Velocity FPS	PSI Loss	Velocity FPS	PSI Loss	Velocity FPS	PSI Loss	Velocity FPS	PSI Loss	Velocity FPS	PSI Loss	Flow GPM
1	1.05	0.43	0.60	0.11	0.37	0.03	0.21	0.01	0.15	0.00											1
2	2.11	1.55	1.20	0.39	0.74	0.12	0.42	0.03	0.31	0.02	0.19	0.00									2
3	3.16	3.28	1.80	0.84	1.11	0.26	0.64	0.07	0.47	0.03	0.28	0.01	0.20	0.00							3
4	4.22	5.60	2.40	1.42	1.48	0.44	0.85	0.12	0.62	0.05	0.38	0.02	0.26	0.01							4
5	5.27	8.46	3.00	2.15	1.85	0.66	1.07	0.18	0.78	0.08	0.47	0.02	0.33	0.01	0.21	0.00					5
6	6.33	11.86	3.60	3.02	2.22	0.93	1.28	0.25	0.94	0.12	0.57	0.03	0.40	0.01	0.26	0.01					6
7	7.38	15.77	4.20	4.01	2.59	1.24	1.49	0.33	1.10	0.15	0.66	0.05	0.46	0.02	0.30	0.01					7
8	8.44	20.20	4.80	5.14	2.96	1.59	1.71	0.42	1.25	0.20	0.76	0.06	0.53	0.02	0.34	0.01					8
9	9.49	25.12	5.40	6.39	3.33	1.97	1.92	0.52	1.41	0.25	0.85	0.07	0.60	0.03	0.39	0.01					9
10	10.55	30.54	6.00	7.77	3.70	2.40	2.14	0.63	1.57	0.30	0.95	0.09	0.66	0.04	0.43	0.01					10
11	11.60	36.43	6.60	9.27	4.07	2.86	2.35	0.75	1.73	0.36	1.05	0.11	0.73	0.04	0.47	0.02					11
12	12.65	42.80	7.21	10.89	4.44	3.36	2.57	0.89	1.88	0.42	1.14	0.12	0.80	0.05	0.52	0.02					12
14	14.76	56.94	8.41	14.48	5.19	4.47	2.99	1.18	2.20	0.56	1.33	0.17	0.93	0.07	0.60	0.02					14
16	16.87	72.92	9.61	18.55	5.93	5.73	3.42	1.51	2.51	0.71	1.52	0.21	1.07	0.09	0.69	0.03					16
18	18.98	90.69	10.81	23.07	6.67	7.13	3.85	1.88	2.83	0.89	1.71	0.26	1.20	0.11	0.78	0.04					18
20	21.09	110.23	12.01	28.04	7.41	8.66	4.28	2.28	3.14	1.08	1.90	0.32	1.33	0.13	0.86	0.05					20
22			13.21	33.45	8.15	10.33	4.71	2.72	3.46	1.29	2.10	0.38	1.47	0.16	0.95	0.06					22
24			14.42	39.30	8.89	12.14	5.14	3.20	3.77	1.51	2.29	0.45	1.60	0.19	1.04	0.07					24
26			15.62	45.58	9.64	14.08	5.57	3.63	4.09	1.75	2.48	0.52	1.74	0.22	1.12	0.08					26
28			16.82	52.28	10.38	16.15	5.99	4.25	4.40	2.01	2.67	0.60	1.87	0.25	1.21	0.09					28
30			18.02	59.41	11.12	18.35	6.42	4.83	4.72	2.28	2.86	0.68	2.00	0.29	1.30	0.10					30
35					12.97	24.42	7.49	6.43	5.50	3.04	3.34	0.90	2.34	0.38	1.51	0.13	0.38	0.00			35
40					14.83	31.27	8.56	8.23	6.29	3.89	3.81	1.15	2.67	0.49	1.73	0.17	0.44	0.01			40
45					16.68	38.89	9.64	10.24	7.08	4.84	4.29	1.43	3.01	0.60	1.95	0.21	0.49	0.01			45
50					18.53	47.27	10.71	12.45	7.87	5.88	4.77	1.74	3.34	0.73	2.16	0.26	0.55	0.01			50
55							11.78	14.85	8.65	7.01	5.25	2.08	3.68	0.88	2.38	0.30	0.61	0.01			55
60							12.85	17.45	9.44	8.24	5.72	2.44	4.01	1.03	2.60	0.36	0.66	0.01			60
65							13.92	20.23	10.23	9.56	6.20	2.83	4.35	1.19	2.81	0.41	0.72	0.02			65
70							14.99	23.21	11.01	10.96	6.68	3.25	4.68	1.37	3.03	0.48	0.77	0.02			70
75							16.06	26.37	11.80	12.46	7.16	3.69	5.01	1.56	3.25	0.54	0.83	0.02			75
80							17.13	29.72	12.59	14.04	7.63	4.16	5.35	1.75	3.46	0.61	0.88	0.02			80
85							18.21	33.26	13.37	15.71	8.11	4.66	5.68	1.96	3.68	0.68	0.94	0.02			85
90							19.28	36.97	14.16	17.46	8.59	5.18	6.02	2.18	3.90	0.76	0.99	0.03			90
95									14.95	19.30	9.07	5.72	6.35	2.41	4.11	0.84	1.05	0.03			95
100									15.74	21.22	9.54	6.29	6.69	2.65	4.33	0.92	1.10	0.03			100
110									17.31	25.32	10.50	7.51	7.36	3.16	4.76	1.10	1.22	0.04			110
120									18.88	29.75	11.45	8.82	8.03	3.72	5.20	1.29	1.33	0.05			120
130											12.41	10.23	8.70	4.31	5.63	1.50	1.44	0.05			130
140											13.36	11.74	9.37	4.94	6.06	1.72	1.55	0.06			140
150											14.32	13.33	10.03	5.62	6.50	1.95	1.66	0.07			150
160											15.27	15.03	10.70	6.33	6.93	2.20	1.77	0.08			160
170											16.23	16.81	11.37	7.08	7.36	2.46	1.88	0.09			170
180											17.18	18.69	12.04	7.87	7.80	2.74	1.99	0.10			180
190											18.14	20.66	12.71	8.70	8.23	3.02	2.10	0.11			190
200											19.09	22.72	13.38	9.57	8.66	3.33	2.21	0.12			200
225													15.05	11.90	9.75	4.14	2.49	0.15			225
250													16.73	14.47	10.83	5.03	2.77	0.18			250
275													18.40	17.26	11.92	6.00	3.05	0.22			275
300															13.00	7.05	3.32	0.26			300
325															14.08	8.17	3.60	0.30			325



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Note: Velocities in shaded (Red) area exceed 5'/sec and should be used with caution