

### Schedule 40 IPS PVC Plastic Pipe Pressure Loss Chart

1120/1220 c=150 Sizes 1/2" - 2"

Pressure Loss Per 100 Feet of Pipe (PSI)

Nominal Size	1/2"		3/4"		1"		1 1/4"		1 1/2"		2"	
	Pipe ID	0.622	0.824	1.049	1.38	1.61	2.067	Pipe OD	0.84	1.05	1.315	1.66
Wall Thick	0.109		0.113		0.133		0.14		0.145		0.154	
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
1	1.05	0.43	0.60	0.11	0.37	0.03	0.21	0.01	0.16	0.00		
2	2.11	1.55	1.20	0.39	0.74	0.12	0.43	0.03	0.31	0.02	0.19	0.00
3	3.16	3.28	1.80	0.84	1.11	0.26	0.64	0.07	0.47	0.03	0.29	0.01
4	4.22	5.59	2.40	1.42	1.48	0.44	0.86	0.12	0.63	0.05	0.38	0.02
5	5.27	8.45	3.00	2.15	4.85	0.66	1.07	0.17	0.79	0.08	0.48	0.02
6	6.33	11.85	3.61	3.02	2.22	0.93	1.29	0.25	0.94	0.12	0.57	0.03
7	7.38	15.76	4.21	4.01	2.60	1.24	1.50	0.33	1.10	0.15	0.67	0.05
8	8.44	20.18	4.81	5.14	2.97	1.59	1.71	0.42	1.26	0.20	0.76	0.06
9	9.49	25.10	5.41	6.39	3.34	1.97	1.93	0.52	1.42	0.25	0.86	0.07
10	10.55	30.51	6.01	7.77	3.71	2.40	2.14	0.63	1.57	0.30	0.95	0.09
11	11.60	36.40	6.61	9.26	4.08	2.86	2.36	0.75	1.73	0.36	1.05	0.11
12	12.65	42.77	7.21	10.88	4.45	3.36	2.57	0.89	1.89	0.42	1.15	0.12
13	13.71	49.60	7.81	12.62	4.82	3.90	2.79	1.03	2.05	0.48	1.24	0.14
14	14.76	56.90	8.41	14.48	5.19	4.47	3.00	1.18	2.20	0.56	1.34	0.16
15	15.82	64.65	9.01	16.45	5.56	5.08	3.21	1.34	2.36	0.63	1.43	0.19
16	16.87	72.86	9.61	18.54	5.93	5.73	3.43	1.51	2.52	0.71	1.53	0.21
17	17.93	81.52	10.22	20.75	6.30	6.41	3.64	1.69	2.68	0.80	1.62	0.24
18	18.98	90.62	10.82	23.06	6.67	7.12	3.86	1.88	2.83	0.89	1.72	0.26
19			11.42	25.49	7.04	7.87	4.07	2.07	2.99	0.98	1.81	0.29
20			12.02	28.03	7.42	8.66	4.28	2.28	3.15	1.08	1.91	0.32
21			13.22	33.44	8.16	10.33	4.71	2.72	3.46	1.28	2.10	0.38
22			14.42	39.29	8.90	12.14	5.14	3.20	3.78	1.51	2.29	0.45
23			15.02	42.38	9.27	13.09	5.36	3.45	3.94	1.63	2.39	0.48
24			15.62	45.57	9.64	14.08	5.57	3.71	4.09	1.75	2.48	0.52
25			16.83	52.27	10.38	16.15	6.00	4.25	4.41	2.01	2.67	0.60
26			18.03	59.40	11.12	18.35	6.43	4.83	4.72	2.28	2.86	0.68
27			19.23	66.94	11.86	20.68	6.86	5.44	5.04	2.57	3.06	0.76
28					12.61	23.13	7.28	6.09	5.35	2.88	3.25	0.85
29					12.98	24.41	7.50	6.43	5.51	3.04	3.34	0.90
30					13.35	25.72	7.71	6.77	5.67	3.20	3.44	0.95
31					14.09	28.43	8.14	7.48	5.98	3.54	3.63	1.05
32					14.83	31.26	8.57	8.23	6.30	3.89	3.82	1.15
33					15.57	34.22	9.00	9.01	6.61	4.25	4.01	1.26
34					16.31	37.29	9.43	9.82	6.93	4.64	4.20	1.37
35					16.68	38.88	9.64	10.24	7.08	4.83	4.30	1.43
36					17.06	40.49	9.86	10.66	7.24	5.04	4.39	1.49
37					17.80	43.81	10.28	11.54	7.56	5.45	4.58	1.62
38					18.54	47.26	10.71	12.44	7.87	5.88	4.77	1.74
39							11.78	14.84	8.66	7.01	5.25	2.08
40							12.85	17.44	9.44	8.24	5.73	2.44
41							13.93	20.23	10.23	9.55	6.21	2.83
42							15.00	23.20	11.02	10.96	6.68	3.25
43							16.07	26.36	11.81	12.45	7.16	3.96
44							17.14	29.71	12.59	14.03	7.64	4.16
45							18.21	33.24	13.38	15.70	8.12	4.65
46							19.28	36.95	14.17	17.45	8.59	5.17
47									14.95	19.29	9.07	5.72
48									15.74	21.21	9.55	6.29
49									17.31	25.31	10.50	7.50
50									18.89	29.74	11.46	8.82
51											12.41	10.22
52											13.37	11.73
53											14.32	13.33
54											15.28	15.02
55											16.23	16.80
56											17.19	18.68
57											18.14	20.65
58											19.10	22.70

Shaded areas are velocities over 5 FPS. Do not use where water hammer is a concern.