

PVC Class 200 IPS Plastic Pipe

(1120, 1220) SDR 21 C=150

psi Loss per 100 Feet of Pipe (psi/100 ft.)

Sizes 3/4" through 6" Flow 1 through 600 gpm

Size	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	
O.D.	1.050	1.315	1.660	1.900	2.375	2.875	3.500	4.500	6.625	
I.D.	0.930	1.189	1.502	1.720	2.149	2.601	3.166	4.072	5.993	
Wall Thk	0.060	0.063	0.079	0.090	0.113	0.137	0.167	0.214	0.316	
Flow gpm	Velocity fps	psi Loss	Velocity fps	psi Loss	Velocity fps	psi Loss	Velocity fps	psi Loss	Velocity fps	psi Loss
1	0.47	0.06	0.29	0.02	0.18	0.01	0.14	0.00	0.09	0.00
2	0.94	0.22	0.58	0.07	0.36	0.02	0.28	0.01	0.18	0.00
3	1.42	0.46	0.87	0.14	0.54	0.04	0.41	0.02	0.27	0.01
4	1.89	0.79	1.16	0.24	0.72	0.08	0.55	0.04	0.35	0.01
5	2.36	1.19	1.44	0.36	0.91	0.12	0.69	0.06	0.44	0.02
6	2.83	1.67	1.73	0.50	1.09	0.16	0.83	0.08	0.53	0.03
7	3.31	2.22	2.02	0.67	1.27	0.22	0.97	0.11	0.62	0.04
8	3.78	2.84	2.31	0.86	1.45	0.28	1.10	0.14	0.71	0.05
9	4.25	3.53	2.60	1.07	1.63	0.34	1.24	0.18	0.80	0.06
10	4.72	4.29	2.89	1.30	1.81	0.42	1.38	0.22	0.88	0.07
11	5.20	5.12	3.18	1.55	1.99	0.50	1.52	0.26	0.97	0.09
12	5.67	6.02	3.47	1.82	2.17	0.58	1.66	0.30	1.06	0.10
14	6.61	8.00	4.05	2.42	2.54	0.78	1.93	0.40	1.24	0.14
16	7.56	10.24	4.62	3.10	2.90	0.99	2.21	0.51	1.42	0.17
18	8.50	12.74	5.20	3.85	3.26	1.24	2.49	0.64	1.59	0.22
20	9.45	15.48	5.78	4.68	3.62	1.50	2.76	0.78	1.77	0.26
22	10.39	18.46	6.36	5.59	3.98	1.79	3.04	0.93	1.95	0.31
24	11.34	21.69	6.93	6.56	4.35	2.11	3.31	1.09	2.12	0.37
26	12.28	25.15	7.51	7.61	4.71	2.44	3.59	1.26	2.30	0.43
28	13.22	28.85	8.09	8.73	5.07	2.80	3.87	1.45	2.48	0.49
30	14.17	32.77	8.67	9.92	5.43	3.18	4.14	1.65	2.65	0.56
35	16.53	43.59	10.11	13.19	6.34	4.23	4.83	2.19	3.10	0.74
40	18.89	55.80	11.56	16.89	7.24	5.42	5.52	2.80	3.54	0.95
45			13.00	21.00	8.15	6.74	6.21	3.48	3.98	1.18
50			14.45	25.51	9.05	8.18	6.90	4.23	4.42	1.43
55			15.89	30.43	9.96	9.76	7.59	5.05	4.86	1.71
60			17.34	35.75	10.86	11.47	8.28	5.93	5.31	2.01
65			18.78	41.46	11.77	13.30	8.98	6.88	5.75	2.33
70					12.68	15.25	9.67	7.89	6.19	2.67
75					13.58	17.33	10.36	8.96	6.63	3.03
80					14.49	19.53	11.05	10.10	7.08	3.42
85					15.39	21.84	11.74	11.30	7.52	3.82
90					16.30	24.28	12.43	12.56	7.96	4.25
95					17.20	26.83	13.12	13.88	8.40	4.70
100					18.11	29.51	13.81	15.26	8.85	5.16
110					19.92	35.20	15.19	18.20	9.73	6.16
120							16.57	21.38	10.61	7.24
130							17.95	24.79	11.50	8.39
140							19.33	28.44	12.38	9.62
150							13.27	10.93	9.06	4.32
160							14.15	12.32	9.66	4.87
170							15.04	13.78	10.27	5.44
180							15.92	15.32	10.87	6.05
190							16.81	16.93	11.47	6.69
200							17.69	18.62	12.08	7.35
225							19.90	23.15	13.59	9.14
250									15.10	11.11
275									16.61	13.26
300									18.11	15.57
325									19.62	18.06
350									13.25	6.94
375									14.26	7.96
400									15.28	9.04
425									16.30	10.19
450									17.32	11.40
475									18.34	12.67
500									19.36	14.00
550										12.32
600										4.52

Note: Dark shaded area of chart indicates velocities over 5' per second. Use with caution

Velocity of flow values are computed from the general equation  $V = .408 \frac{Q}{d^2}$

Friction pressure loss values are computed from the equation:  $[hf = 0.2083 \left( \frac{100}{c} \right) 1.852 \frac{Q^{1.852}}{d^{4.866}}] \times 4.33$  for psi loss per 100' of pipe