

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	7.25	2.86
130					17.95	24.79	11.50	8.39	7.85	3.31
140					19.33	28.44	12.38	9.62	8.45	3.80
150					13.27	10.93	9.06	4.32	6.11	1.66
160					14.15	12.32	9.66	4.87	6.52	1.87
170					15.04	13.78	10.27	5.44	6.93	2.09
180					15.92	15.32	10.87	6.05	7.34	2.33
190					16.81	16.93	11.47	6.69	7.74	2.57
200					17.69	18.62	12.08	7.35	8.15	2.83
225					19.90	23.15	13.59	9.14	9.17	3.51
250							15.10	11.11	10.19	4.27
275							16.61	13.26	11.21	5.09
300							18.11	15.57	12.23	5.98
325							19.62	18.06	13.25	6.94
350							14.26	7.96	8.62	2.34
375							15.28	9.04	9.24	2.66
400							16.30	10.19	9.85	2.99
425							17.32	11.40	10.47	3.35
450							18.34	12.67	11.09	3.72
475							19.36	14.00	11.70	4.11
500									12.32	4.52
550									13.55	5.40
600									14.78	6.34

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: $[hf = 0.2083 \left(\frac{100}{d}\right)^{1.852} \frac{QL^{2.632}}{44.866}] \times 4.33$ for psi loss per 100' of pipe