

PVC Class 160 IPS Plastic Pipe

(1120, 1220) SDR 26 C=150

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

Sizes 1" through 6" Flow 1 through 600 gpm

Size	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"								
O.D.	1.315	1.660	1.900	2.375	2.875	3.500	4.500	6.625								
I.D.	1.195	1.532	1.754	2.193	2.655	3.230	4.154	6.115								
Wall Thk	0.06	0.064	0.073	0.091	0.110	0.135	0.173	0.225								
Flow gpm	Velocity fps	psi Loss	Velocity fps	psi Loss	Velocity fps	psi Loss	Velocity fps	psi Loss								
1	0.29	0.02	0.17	0.01	0.13	0.00	0.08	0.00	0.06	0.00	0.04	0.00	0.02	0.00	0.01	0.00
2	0.57	0.06	0.35	0.02	0.27	0.01	0.17	0.00	0.12	0.00	0.08	0.00	0.05	0.00	0.02	0.00
3	0.86	0.14	0.52	0.04	0.40	0.02	0.25	0.01	0.17	0.00	0.12	0.00	0.07	0.00	0.03	0.00
4	1.14	0.23	0.70	0.07	0.53	0.04	0.34	0.01	0.23	0.00	0.16	0.00	0.09	0.00	0.04	0.00
5	1.43	0.35	0.87	0.11	0.66	0.05	0.42	0.02	0.29	0.01	0.20	0.00	0.12	0.00	0.05	0.00
6	1.72	0.49	1.04	0.15	0.80	0.08	0.51	0.03	0.35	0.01	0.23	0.00	0.14	0.00	0.07	0.00
7	2.00	0.66	1.22	0.20	0.93	0.10	0.59	0.03	0.41	0.01	0.27	0.01	0.17	0.00	0.08	0.00
8	2.29	0.84	1.39	0.25	1.06	0.13	0.68	0.04	0.46	0.02	0.31	0.01	0.19	0.00	0.09	0.00
9	2.57	1.04	1.57	0.31	1.20	0.16	0.76	0.05	0.52	0.02	0.35	0.01	0.21	0.00	0.10	0.00
10	2.86	1.27	1.74	0.38	1.33	0.20	0.85	0.07	0.58	0.03	0.39	0.01	0.24	0.00	0.11	0.00
11	3.15	1.51	1.91	0.45	1.46	0.23	0.93	0.08	0.64	0.03	0.43	0.01	0.26	0.00	0.12	0.00
12	3.43	1.78	2.09	0.53	1.59	0.27	1.02	0.09	0.70	0.04	0.47	0.01	0.28	0.00	0.13	0.00
14	4.00	2.36	2.44	0.71	1.86	0.37	1.19	0.12	0.81	0.05	0.55	0.02	0.33	0.01	0.15	0.00
16	4.58	3.02	2.78	0.90	2.12	0.47	1.36	0.16	0.93	0.06	0.63	0.02	0.38	0.01	0.17	0.00
18	5.15	3.76	3.13	1.12	2.39	0.58	1.53	0.20	1.04	0.08	0.70	0.03	0.43	0.01	0.20	0.00
20	5.72	4.57	3.48	1.36	2.66	0.71	1.70	0.24	1.16	0.09	0.78	0.04	0.47	0.01	0.22	0.00
22	6.29	5.45	3.83	1.63	2.92	0.84	1.87	0.28	1.27	0.11	0.86	0.04	0.52	0.01	0.24	0.00
24	6.87	6.40	4.18	1.91	3.19	0.99	2.04	0.33	1.39	0.13	0.94	0.05	0.57	0.01	0.26	0.00
26	7.44	7.43	4.53	2.22	3.45	1.15	2.21	0.39	1.51	0.15	1.02	0.06	0.62	0.02	0.28	0.00
28	8.01	8.52	4.87	2.54	3.72	1.32	2.38	0.44	1.62	0.18	1.10	0.07	0.66	0.02	0.31	0.00
30	8.58	9.68	5.22	2.89	3.98	1.50	2.55	0.50	1.74	0.20	1.17	0.08	0.71	0.02	0.33	0.00
35	10.01	12.87	6.09	3.84	4.65	1.99	2.97	0.67	2.03	0.26	1.37	0.10	0.83	0.03	0.38	0.00
40	11.44	16.48	6.96	4.92	5.31	2.55	3.40	0.86	2.32	0.34	1.57	0.13	0.95	0.04	0.44	0.01
45	12.87	20.49	7.83	6.12	5.98	3.17	3.82	1.07	2.61	0.42	1.76	0.16	1.07	0.05	0.49	0.01
50	14.30	24.90	8.70	7.43	6.64	3.85	4.25	1.30	2.90	0.51	1.96	0.20	1.18	0.06	0.55	0.01
55	15.73	29.70	9.57	8.87	7.30	4.59	4.67	1.55	3.19	0.61	2.15	0.24	1.30	0.07	0.60	0.01
60	17.16	34.89	10.44	10.42	7.97	5.39	5.10	1.82	3.48	0.72	2.35	0.28	1.42	0.08	0.66	0.01
65	18.59	40.45	11.31	12.08	8.63	6.25	5.52	2.11	3.77	0.83	2.55	0.32	1.54	0.09	0.71	0.01
70	20.02	46.40	12.18	13.85	9.29	7.17	5.95	2.42	4.06	0.95	2.74	0.37	1.66	0.11	0.76	0.02
75			13.05	15.74	9.96	8.15	6.37	2.75	4.35	1.08	2.94	0.42	1.78	0.12	0.82	0.02
80			13.92	17.74	10.62	9.18	6.80	3.10	4.64	1.22	3.13	0.47	1.89	0.14	0.87	0.02
85			14.79	19.84	11.29	10.27	7.22	3.46	4.93	1.37	3.33	0.53	2.01	0.15	0.93	0.02
90			15.66	22.05	11.95	11.42	7.64	3.85	5.22	1.52	3.52	0.59	2.13	0.17	0.98	0.03
95			16.53	24.37	12.61	12.62	8.07	4.26	5.51	1.68	3.72	0.65	2.25	0.19	1.04	0.03
100			17.41	26.80	13.28	13.87	8.49	4.68	5.80	1.85	3.92	0.71	2.37	0.21	1.09	0.03
110			19.15	31.97	14.61	16.55	9.34	5.58	6.37	2.20	4.31	0.85	2.60	0.25	1.20	0.04
120					15.93	19.44	10.19	6.56	6.95	2.59	4.70	1.00	2.84	0.29	1.31	0.04
130					17.26	22.54	11.04	7.60	7.53	3.00	5.09	1.16	3.08	0.34	1.42	0.05
140					18.59	25.85	11.89	8.72	8.11	3.44	5.48	1.33	3.31	0.39	1.53	0.06
150					19.92	29.37	12.74	9.91	8.69	3.91	5.87	1.51	3.55	0.44	1.64	0.07
160							13.59	11.16	9.27	4.40	6.26	1.70	3.79	0.50	1.75	0.08
170							14.44	12.49	9.85	4.93	6.66	1.90	4.02	0.56	1.86	0.09
180							15.29	13.88	10.43	5.48	7.05	2.11	4.26	0.62	1.97	0.09
190							16.14	15.34	11.01	6.05	7.44	2.33	4.50	0.69	2.08	0.10
200							16.99	16.87	11.59	6.65	7.83	2.56	4.73	0.75	2.18	0.11
225							19.11	20.98	13.04	8.27	8.81	3.19	5.33	0.94	2.46	0.14
250									14.49	10.06	9.79	3.87	5.92	1.14	2.73	0.17
275									15.94	11.99	10.77	4.62	6.51	1.36	3.00	0.21
300									17.39	14.09	11.75	5.43	7.10	1.60	3.28	0.24
325									18.83	16.34	12.73	6.29	7.69	1.85	3.55	0.28
350											13.70	7.22	8.29	2.12	3.82	0.32
375											14.68	8.20	8.88	2.41	4.10	0.37
400											15.66	9.24	9.47	2.72	4.37	0.41
425											16.64	10.34	10.06	3.04	4.64	0.46
450											17.62	11.49	10.65	3.38	4.92	0.51
475											18.60	12.70	11.24	3.73	5.19	0.57
500											19.58	13.97	11.84	4.11	5.46	0.63
550													13.02	4.90	6.01	0.75
600													14.20	5.75	6.55	0.88

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:  $[hf = 0.2083 \left(\frac{100}{C}\right)^{1.852} \left(\frac{Q^{1.852}}{d^{4.866}}\right)] \times 4.33$  for psi loss per 100' of pipe