

PVC Class 315 IPS Plastic Pipe

(1120, 1220) SDR 13.5 C=150

PVC Class 315 IPS Plastic Pipe

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

Sizes 1/2" through 6" Flow 1 through 600 gpm

Size	1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"		4"		6"	
O.D.	0.840		1.050		1.315		1.660		1.900		2.375		2.875		3.500		4.500		6.625	
I.D.	0.716		0.894		1.121		1.414		1.618		2.023		2.449		2.982		3.834		5.643	
Wall Thk	0.062		0.078		0.097		0.123		0.141		0.176		0.213		0.259		0.333		0.491	
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
1	0.80	0.22	0.51	0.07	0.33	0.02	0.20	0.01	0.16	0.00	0.10	0.00	0.07	0.00	0.05	0.00	0.03	0.00	0.01	0.00
2	1.59	0.78	1.02	0.26	0.65	0.09	0.41	0.03	0.31	0.01	0.20	0.00	0.14	0.00	0.09	0.00	0.06	0.00	0.03	0.00
3	2.39	1.65	1.53	0.56	0.98	0.19	0.61	0.06	0.47	0.03	0.30	0.01	0.20	0.00	0.14	0.00	0.08	0.00	0.04	0.00
4	3.19	2.81	2.04	0.96	1.30	0.32	0.82	0.10	0.62	0.05	0.40	0.02	0.27	0.01	0.18	0.00	0.11	0.00	0.05	0.00
5	3.98	4.25	2.56	1.44	1.63	0.48	1.02	0.16	0.78	0.08	0.50	0.03	0.34	0.01	0.23	0.00	0.14	0.00	0.06	0.00
6	4.78	5.96	3.07	2.02	1.95	0.67	1.23	0.22	0.94	0.11	0.60	0.04	0.41	0.02	0.28	0.01	0.17	0.00	0.08	0.00
7	5.58	7.92	3.58	2.69	2.28	0.89	1.43	0.29	1.09	0.15	0.70	0.05	0.48	0.02	0.32	0.01	0.19	0.00	0.09	0.00
8	6.37	10.14	4.09	3.44	2.60	1.15	1.63	0.37	1.25	0.19	0.80	0.06	0.54	0.03	0.37	0.01	0.22	0.00	0.10	0.00
9	7.17	12.61	4.60	4.28	2.93	1.42	1.84	0.46	1.40	0.24	0.90	0.08	0.61	0.03	0.41	0.01	0.25	0.00	0.12	0.00
10	7.97	15.33	5.11	5.20	3.25	1.73	2.04	0.56	1.56	0.29	1.00	0.10	0.68	0.04	0.46	0.01	0.28	0.00	0.13	0.00
11	8.77	18.28	5.62	6.21	3.58	2.06	2.25	0.67	1.72	0.35	1.10	0.12	0.75	0.05	0.51	0.02	0.31	0.01	0.14	0.00
12	9.56	21.47	6.13	7.29	3.90	2.42	2.45	0.78	1.87	0.41	1.20	0.14	0.82	0.05	0.55	0.02	0.33	0.01	0.15	0.00
14	11.16	28.56	7.16	9.70	4.55	3.22	2.86	1.04	2.18	0.54	1.40	0.18	0.95	0.07	0.64	0.03	0.39	0.01	0.18	0.00
16	12.75	36.56	8.18	12.41	5.20	4.13	3.27	1.33	2.50	0.69	1.60	0.23	1.09	0.09	0.74	0.04	0.44	0.01	0.21	0.00
18	14.34	45.46	9.20	15.44	5.85	5.13	3.68	1.66	2.81	0.86	1.80	0.29	1.23	0.11	0.83	0.04	0.50	0.01	0.23	0.00
20	15.94	55.25	10.22	18.76	6.50	6.24	4.09	2.02	3.12	1.05	2.00	0.35	1.36	0.14	0.92	0.05	0.56	0.02	0.26	0.00
22	17.53	65.90	11.24	22.37	7.15	7.44	4.49	2.40	3.43	1.25	2.20	0.42	1.50	0.17	1.01	0.06	0.61	0.02	0.28	0.00
24	19.12	77.41	12.27	26.28	7.80	8.74	4.90	2.82	3.74	1.47	2.40	0.49	1.63	0.20	1.10	0.07	0.67	0.02	0.31	0.00
26			13.29	30.48	8.45	10.14	5.31	3.27	4.06	1.70	2.60	0.57	1.77	0.23	1.19	0.09	0.72	0.03	0.33	0.00
28			14.31	34.95	9.10	11.62	5.72	3.76	4.37	1.95	2.79	0.66	1.91	0.26	1.29	0.10	0.78	0.03	0.36	0.00
30			15.33	39.71	9.75	13.21	6.13	4.27	4.68	2.22	2.99	0.75	2.04	0.29	1.38	0.11	0.83	0.03	0.38	0.01
35			17.89	52.82	11.38	17.57	7.15	5.68	5.46	2.95	3.49	0.99	2.38	0.39	1.61	0.15	0.97	0.04	0.45	0.01
40					13.00	22.49	8.17	7.27	6.24	3.77	3.99	1.27	2.72	0.50	1.84	0.19	1.11	0.06	0.51	0.01
45					14.63	27.96	9.19	9.03	7.02	4.69	4.49	1.58	3.06	0.62	2.07	0.24	1.25	0.07	0.58	0.01
50					16.25	33.98	10.22	10.98	7.80	5.70	4.99	1.92	3.41	0.76	2.30	0.29	1.39	0.09	0.64	0.01
55					17.88	40.53	11.24	13.10	8.58	6.80	5.49	2.29	3.75	0.90	2.53	0.35	1.53	0.10	0.71	0.02
60					19.50	47.61	12.26	15.38	9.36	7.99	5.99	2.69	4.09	1.06	2.76	0.41	1.67	0.12	0.77	0.02
65							13.28	17.84	10.14	9.26	6.49	3.12	4.43	1.23	2.99	0.47	1.81	0.14	0.83	0.02
70							14.30	20.46	10.92	10.62	6.99	3.58	4.77	1.41	3.22	0.54	1.95	0.16	0.90	0.02
75							15.32	23.25	11.70	12.07	7.49	4.07	5.11	1.61	3.45	0.62	2.08	0.18	0.96	0.03
80							16.34	26.19	12.48	13.60	7.99	4.59	5.45	1.81	3.68	0.69	2.22	0.20	1.03	0.03
85							17.37	29.30	13.26	15.21	8.48	5.13	5.79	2.02	3.90	0.78	2.36	0.23	1.09	0.03
90							18.39	32.57	14.04	16.91	8.98	5.70	6.13	2.25	4.13	0.86	2.50	0.25	1.15	0.04
95							19.41	36.00	14.82	18.69	9.48	6.30	6.47	2.49	4.36	0.95	2.64	0.28	1.22	0.04
100									15.60	20.55	9.98	6.93	6.81	2.73	4.59	1.05	2.78	0.31	1.28	0.05
110									17.16	24.51	10.98	8.27	7.49	3.26	5.05	1.25	3.06	0.37	1.41	0.06
120									18.72	28.79	11.98	9.71	8.17	3.83	5.51	1.47	3.33	0.43	1.54	0.07
130											12.98	11.26	8.85	4.44	5.97	1.70	3.61	0.50	1.67	0.08
140											13.97	12.91	9.54	5.10	6.43	1.95	3.89	0.58	1.80	0.09
150											14.97	14.67	10.22	5.79	6.89	2.22	4.17	0.65	1.92	0.10
160											15.97	16.53	10.90	6.52	7.35	2.50	4.45	0.74	2.05	0.11
170											16.97	18.49	11.58	7.30	7.81	2.80	4.72	0.82	2.18	0.13
180											17.97	20.56	12.26	8.11	8.27	3.11	5.00	0.92	2.31	0.14
190											18.97	22.72	12.94	8.97	8.73	3.44	5.28	1.01	2.44	0.15
200											19.96	24.98	13.62	9.86	9.19	3.78	5.56	1.11	2.57	0.17
225													15.32	12.26	10.34	4.70	6.25	1.38	2.89	0.21
250													17.03	14.90	11.48	5.71	6.95	1.68	3.21	0.26
275													18.73	17.77	12.63	6.82	7.64	2.01	3.53	0.31
300															13.78	8.01	8.34	2.36	3.85	0.36
325															14.93	9.28	9.03	2.73	4.17	0.42
350															16.08	10.65	9.73	3.14	4.49	0.48
375															17.23	12.10	10.42	3.56	4.81	0.54
400															18.38	13.63	11.12	4.01	5.13	0.61
425															19.52	15.25	11.81	4.49	5.45	0.68
450																	12.51	4.99	5.77	0.76
475																	13.20	5.52	6.09	0.84
500																	13.89	6.07	6.41	0.92
550																	15.28	7.23	7.06	1.10
600																	16.67	8.50	7.70	1.30

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