

Polyethylene (PE) SDR 7, 9, 11.5, 15

Sizes 1" through 2" Flow 1 gpm through 100 gpm

Friction loss per 100 Feet of Pipe (psi/100 ft.)

Nominal Size Avg. I.D.	1"		1 1/4"		1 1/2"		2"	
	1.049		1.380		1.610		2.067	
Flow (gpm)	Velocity (ft/s)	Loss (psi)	Velocity (ft/s)	Loss (psi)	Velocity (ft/s)	Loss (psi)	Velocity (ft/s)	Loss (psi)
1	0.37	0.04	0.21	0.01	0.16	0.00	0.10	0.00
2	0.74	0.14	0.43	0.04	0.31	0.02	0.19	0.01
3	1.11	0.29	0.64	0.08	0.47	0.04	0.29	0.01
4	1.48	0.50	0.86	0.13	0.63	0.06	0.38	0.02
5	1.85	0.76	1.07	0.20	0.79	0.09	0.48	0.03
6	2.22	1.06	1.29	0.28	0.94	0.13	0.57	0.04
7	2.60	1.41	1.50	0.37	1.10	0.18	0.67	0.05
8	2.97	1.80	1.71	0.47	1.26	0.22	0.76	0.07
9	3.34	2.24	1.93	0.59	1.42	0.28	0.86	0.08
10	3.71	2.73	2.14	0.72	1.57	0.34	0.95	0.10
11	4.08	3.25	2.36	0.86	1.73	0.40	1.05	0.12
12	4.45	3.82	2.57	1.01	1.89	0.48	1.15	0.14
14	5.19	5.08	3.00	1.34	2.20	0.63	1.34	0.19
16	5.93	6.51	3.43	1.71	2.52	0.81	1.53	0.24
18	6.67	8.10	3.86	2.13	2.83	1.01	1.72	0.30
20	7.42	9.84	4.28	2.59	3.15	1.22	1.91	0.36
22	8.16	11.74	4.71	3.09	3.46	1.46	2.10	0.43
24	8.90	13.79	5.14	3.63	3.78	1.72	2.29	0.51
26	9.64	16.00	5.57	4.21	4.09	1.99	2.48	0.59
28	10.38	18.35	6.00	4.83	4.41	2.28	2.67	0.68
30	11.12	20.85	6.43	5.49	4.72	2.59	2.86	0.77
35	12.98	27.74	7.50	7.30	5.51	3.45	3.34	1.02
40			8.57	9.35	6.30	4.42	3.82	1.31
45			9.64	11.63	7.08	5.49	4.30	1.63
50			10.71	14.14	7.87	6.68	4.77	1.98
55			11.78	16.87	8.66	7.97	5.25	2.36
60			12.85	19.82	9.44	9.36	5.73	2.77
65					10.23	10.86	6.21	3.22
70					11.02	12.45	6.68	3.69
75					11.81	14.15	7.16	4.19
80					12.59	15.95	7.64	4.73
85					13.38	17.84	8.12	5.29
90							8.59	5.88
95							9.07	6.50
100							9.55	7.15

PVC Schedule 80 IPS

Sizes 1" through 2" Flow 1 gpm through 100 gpm

Friction loss per 100 Feet of Pipe (psi/100 ft.)

Nominal Size Avg. I.D.	1"		1 1/4"		1 1/2"		2"	
	0.935		1.254		1.476		1.913	
Flow (gpm)	Velocity (ft/s)	Loss (psi)	Velocity (ft/s)	Loss (psi)	Velocity (ft/s)	Loss (psi)	Velocity (ft/s)	Loss (psi)
1	0.47	0.06	0.26	0.01	0.19	0.01	0.11	
2	0.93	0.21	0.52	0.05	0.37	0.02	0.22	
3	1.40	0.45	0.78	0.11	0.56	0.05	0.33	
4	1.87	0.77	1.04	0.18	0.75	0.08	0.45	
5	2.33	1.16	1.30	0.28	0.94	0.13	0.56	
6	2.80	1.63	1.56	0.39	1.12	0.18	0.67	
7	3.27	2.17	1.82	0.52	1.31	0.24	0.78	
8	3.73	2.78	2.08	0.67	1.50	0.30	0.89	
9	4.20	3.45	2.34	0.83	1.69	0.37	1.00	
10	4.67	4.20	2.59	1.01	1.87	0.46	1.11	
11	5.13	5.01	2.85	1.20	2.06	0.54	1.23	
12	5.60	5.88	3.11	1.41	2.25	0.64	1.34	
14	6.53	7.83	3.63	1.88	2.62	0.85	1.56	
16	7.47	10.03	4.15	2.40	3.00	1.09	1.78	
18	8.40	12.47	4.67	2.99	3.37	1.35	2.01	
20	9.33	15.16	5.19	3.63	3.75	1.64	2.23	
22	10.27	18.08	5.71	4.33	4.12	1.96	2.45	
24	11.20	21.24	6.23	5.09	4.49	2.30	2.68	
26	12.13	24.64	6.75	5.91	4.87	2.67	2.90	
28	13.07	28.26	7.26	6.77	5.24	3.06	3.12	
30	14.00	32.12	7.78	7.70	5.62	3.48	3.34	
35	16.33	42.73	9.08	10.24	6.55	4.63	3.90	
40			10.38	13.11	7.49	5.93	4.46	
45			11.68	16.31	8.43	7.38	5.02	
50			12.97	19.83	9.36	8.97	5.57	
55			14.27	23.65	10.30	10.70	6.13	
60			15.57	27.79	11.24	12.57	6.69	
65					12.17	14.58	7.25	
70					13.11	16.73	7.80	
75					14.05	19.01	8.36	
80					14.98	21.42	8.92	
85					15.92	23.96	9.48	
90							10.03	
95							10.59	
100							11.15	

Loss
(psi)

0.00
0.01
0.01
0.02
0.04
0.05
0.07
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3.03
3.56
4.13
4.74
5.38
6.06
6.78
7.54
8.34
9.17