

# REFERENCE

## PVC SCHEDULE 40 IPS PLASTIC PIPE

### PVC Schedule 40 IPS Plastic Pipe C = 150

Loss per 100' of pipe (psi/100')

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		0.930		1.189		1.502		1.720		2.149		2.601		3.166		4.072		5.993	
Wall Dim.	0.062		0.060		0.063		0.079		0.090		0.113		0.137		0.167		0.214		0.316	
Flow gpm	Velocity fps		Velocity fps		Velocity fps		Velocity fps		Velocity fps		Velocity fps		Velocity fps		Velocity fps		Velocity fps		Velocity fps	
	psi loss	psi loss	psi loss	psi loss	psi loss	psi loss	psi loss	psi loss	psi loss	psi loss	psi loss	psi loss	psi loss	psi loss	psi loss	psi loss	psi loss	psi loss	psi loss	psi loss
1	1.06	0.503	0.60	0.123	0.37	0.037	0.21	0.001	0.16	0.004	0.01	0.001	0.07	0.001	0.04	0.000	0.03	0.000	0.01	0.000
2	2.11	1.815	1.20	0.444	0.74	0.134	0.42	0.034	0.31	0.016	0.19	0.005	0.13	0.002	0.09	0.001	0.05	0.000	0.02	0.000
3	3.16	3.842	1.80	0.940	1.11	0.283	0.64	0.073	0.47	0.034	0.28	0.001	0.20	0.004	0.13	0.001	0.08	0.000	0.03	0.000
4	4.22	6.542	2.40	1.601	1.48	0.482	0.85	0.124	0.62	0.058	0.38	0.017	0.26	0.007	0.17	0.002	0.10	0.001	0.04	0.000
5	5.27	9.885	3.00	2.419	1.85	0.728	1.07	0.187	0.78	0.088	0.47	0.026	0.33	0.011	0.21	0.004	0.13	0.000	0.06	0.000
6	6.33	13.850	3.60	3.389	2.22	1.020	1.28	0.263	0.94	0.123	0.57	0.036	0.40	0.015	0.26	0.005	0.15	0.001	0.07	0.000
7	7.38	18.421	4.20	4.508	2.59	1.357	1.49	0.349	1.10	0.163	0.66	0.048	0.46	0.020	0.30	0.007	0.18	0.002	0.08	0.000
8	8.44	23.582	4.80	5.771	2.96	1.738	1.71	0.447	1.25	0.209	0.76	0.061	0.53	0.026	0.34	0.009	0.20	0.002	0.09	0.000
9	9.49	29.324	5.40	7.176	3.33	2.161	1.92	0.556	1.41	0.260	0.85	0.076	0.60	0.032	0.39	0.011	0.23	0.003	0.10	0.000
10			6.00	8.720	3.70	2.625	2.14	0.676	1.57	0.315	0.95	0.092	0.66	0.039	0.43	0.013	0.25	0.004	0.11	0.001
11			6.60	10.402	4.07	3.132	2.35	0.806	1.73	0.376	1.05	0.110	0.73	0.046	0.47	0.016	0.28	0.004	0.12	0.001
12			7.21	12.218	4.44	3.679	2.57	0.947	1.88	0.442	1.14	0.129	0.80	0.055	0.52	0.019	0.30	0.005	0.13	0.001
14			8.41	16.251	5.19	4.893	2.99	1.259	2.20	0.588	1.33	0.172	0.93	0.073	0.60	0.025	0.35	0.007	0.16	0.001
16			9.61	20.804	5.93	6.264	3.42	1.612	2.51	0.753	1.52	0.220	1.07	0.093	0.69	0.032	0.40	0.009	0.18	0.001
18			10.81	25.869	6.67	7.789	3.85	2.004	2.83	0.936	1.71	0.274	1.20	0.116	0.78	0.040	0.45	0.011	0.20	0.001
20			12.01	31.437	7.41	9.465	4.28	2.436	3.14	1.137	1.90	0.333	1.33	0.140	0.86	0.048	0.50	0.013	0.22	0.002
22					8.15	11.290	4.71	2.905	3.46	1.357	2.10	0.397	1.47	0.167	0.95	0.057	0.55	0.015	0.24	0.002
24					8.89	13.262	5.14	3.413	3.77	1.593	2.29	0.467	1.60	0.197	1.04	0.067	0.60	0.018	0.27	0.002
26					9.64	15.378	5.57	3.957	4.09	1.848	2.48	0.541	1.74	0.228	1.12	0.078	0.65	0.021	0.29	0.003
28					10.38	17.638	5.99	4.539	4.40	2.119	2.67	0.621	1.87	0.262	1.21	0.090	0.70	0.024	0.31	0.003
30					11.12	20.039	6.42	5.157	4.72	2.408	2.86	0.705	2.00	0.297	1.30	0.102	0.75	0.027	0.33	0.004
35					12.97	26.652	7.49	6.859	5.50	3.202	3.34	0.938	2.34	0.395	1.51	0.136	0.88	0.036	0.38	0.005
40							8.56	8.780	6.29	4.010	3.81	1.201	2.67	0.506	1.73	0.174	1.00	0.046	0.44	0.006
45							9.64	10.918	7.08	5.098	4.29	1.493	3.01	0.629	1.95	0.216	1.13	0.058	0.49	0.008
50							10.71	13.268	7.87	6.195	4.77	1.815	3.34	0.765	2.16	0.262	1.25	0.070	1.55	0.009
55							11.78	15.826	8.65	7.390	5.25	2.164	3.68	0.912	2.38	0.313	1.38	0.083	0.61	0.011
60							12.85	18.590	9.44	8.680	5.72	2.543	4.01	1.071	2.60	0.367	1.51	0.098	0.66	0.013
65									10.23	10.066	6.20	2.948	4.35	1.242	2.81	0.426	1.63	0.114	0.72	0.015
70									11.01	11.545	6.68	3.382	4.68	1.425	3.03	0.489	1.76	0.130	0.77	0.018
75									11.80	13.117	7.16	3.842	5.01	1.619	3.25	0.555	1.88	0.148	0.83	0.020
80									12.59	14.780	7.63	4.329	5.35	1.824	3.46	0.626	2.01	0.167	0.88	0.023
85											8.11	4.843	5.68	2.041	3.68	0.700	2.13	0.187	0.94	0.025
90											8.59	5.383	6.02	2.268	3.90	0.778	2.26	0.208	0.99	0.028
95											9.07	5.949	6.35	2.507	4.11	0.860	2.39	0.229	1.05	0.031
100											9.54	6.542	6.69	2.757	4.33	0.945	2.51	0.252	1.10	0.034
110											10.50	7.803	7.36	3.288	4.76	1.127	2.76	0.301	1.22	0.041
120											11.45	9.166	8.03	3.863	5.20	1.324	3.02	0.353	1.33	0.048
130											12.41	10.629	8.70	4.479	5.63	1.536	3.27	0.410	1.44	0.055
140													9.37	5.137	6.06	1.761	3.52	0.470	1.55	0.064
150													10.03	5.837	6.50	2.001	3.77	0.534	1.66	0.072
160													10.70	6.577	6.93	2.255	4.02	0.602	1.77	0.081
170													11.37	7.357	7.36	2.523	4.27	0.673	1.88	0.091
180													12.04	8.178	7.80	2.804	4.53	0.748	1.99	0.101
190													12.71	9.038	8.23	3.099	4.78	0.827	2.10	0.112
200															8.66	3.407	5.03	0.909	2.21	0.123
225															9.75	4.237	5.66	1.131	2.49	0.153
250															10.83	5.149	6.29	1.374	2.77	0.186
275															11.92	6.142	6.92	1.639	3.05	0.222
300															13.00	7.214	7.55	1.926	3.32	0.260
325																	8.18	2.233	3.60	0.302
350																	8.81	2.561	3.88	0.346
375																	9.43	2.910	4.15	0.393
400																	10.06	3.279	4.43	0.443
425																	10.69	3.668	4.71	0.496
450																	11.32	4.077	4.99	0.551
475																	11.95	4.506	5.26	0.609
500																	12.58	4.954	5.54	0.669
550																			6.10	0.799
600																			6.65	0.938

Shading indicates velocities over 5 fps (not recommended).