

**FRICTION LOSS CHARACTERISTICS  
PVC SCHEDULE 80 IPS PLASTIC PIPE  
PRESSURE LOSS PER 100 FT OF PIPE (PSI/100FT)**

<b>C=</b>	<b>150</b>												
<b>SIZE</b>	<b>2-1/2"</b>	<b>3"</b>	<b>4"</b>	<b>5"</b>	<b>6"</b>	<b>8"</b>	<b>10"</b>	<b>12"</b>	<b>14"</b>	<b>16"</b>			
<b>OD</b>	2.875	3.5	4.5	5.563	6.625	8.625	10.75	12.75	14	16			
<b>ID</b>	2.323	2.9	3.826	4.813	5.761	7.625	9.564	11.376	12.5	14.314			
<b>WALL THK</b>	0.276	0.3	0.337	0.375	0.432	0.5	0.593	0.687	0.75	0.843			

FLOW GPM	2-1/2"		3"		4"		5"		6"		8"		10"		12"		14"		16"		FLOW GPM
	VELOCIT Y ft/sec	PSI LOSS	VELOCIT Y ft/sec	PSI LOSS	VELOCIT Y ft/sec	PSI LOSS	VELOCIT Y ft/sec	PSI LOSS	VELOCIT Y ft/sec	PSI LOSS	VELOCIT Y ft/sec	PSI LOSS	VELOCIT Y ft/sec	PSI LOSS	VELOCIT Y ft/sec	PSI LOSS	VELOCIT Y ft/sec	PSI LOSS	VELOCIT Y ft/sec	PSI LOSS	
60	4.536	1.38	2.911	0.47	1.672	0.12	1.057	0.04	0.738	0.02											60
65	4.914	1.60	3.153	0.55	1.812	0.14	1.145	0.05	0.799	0.02	0.456	0.00									65
70	5.292	1.84	3.396	0.63	1.951	0.16	1.233	0.05	0.861	0.02	0.491	0.01									70
75	5.671	2.09	3.639	0.71	2.090	0.18	1.321	0.06	0.922	0.03	0.526	0.01									75
80	6.049	2.36	3.881	0.80	2.230	0.21	1.409	0.07	0.983	0.03	0.561	0.01									80
85	6.427	2.64	4.124	0.90	2.369	0.23	1.497	0.08	1.045	0.03	0.596	0.01									85
90	6.805	2.93	4.366	1.00	2.508	0.26	1.585	0.08	1.106	0.04	0.632	0.01									90
95	7.183	3.24	4.609	1.10	2.648	0.29	1.673	0.09	1.168	0.04	0.667	0.01									95
100	7.561	3.56	4.851	1.21	2.787	0.31	1.761	0.10	1.229	0.04	0.702	0.01									100
105	7.939	3.90	5.094	1.33	2.927	0.34	1.849	0.11	1.291	0.05	0.737	0.01									105
110	8.317	4.25	5.337	1.44	3.066	0.38	1.937	0.12	1.352	0.05	0.772	0.01									110
115	8.695	4.62	5.579	1.57	3.205	0.41	2.025	0.13	1.414	0.06	0.807	0.01	0.513	0.00							115
120	9.073	4.99	5.822	1.70	3.345	0.44	2.114	0.14	1.475	0.06	0.842	0.02	0.535	0.01							120
125	9.451	5.39	6.064	1.83	3.484	0.48	2.202	0.16	1.537	0.06	0.877	0.02	0.558	0.01							125
130	9.829	5.79	6.307	1.97	3.623	0.51	2.290	0.17	1.598	0.07	0.912	0.02	0.580	0.01							130
135	10.207	6.21	6.549	2.11	3.763	0.55	2.378	0.18	1.660	0.07	0.947	0.02	0.602	0.01							135
140	10.585	6.64	6.792	2.26	3.902	0.59	2.466	0.19	1.721	0.08	0.982	0.02	0.624	0.01							140
145	10.963	7.09	7.034	2.41	4.041	0.63	2.554	0.20	1.783	0.09	1.018	0.02	0.647	0.01							145
150	11.341	7.55	7.277	2.57	4.181	0.67	2.642	0.22	1.844	0.09	1.053	0.02	0.669	0.01							150
160	12.097	8.51	7.762	2.89	4.460	0.75	2.818	0.25	1.967	0.10	1.123	0.03	0.714	0.01							160
170	12.853	9.52	8.247	3.23	4.738	0.84	2.994	0.27	2.090	0.11	1.193	0.03	0.758	0.01							170
180	13.609	10.58	8.732	3.60	5.017	0.93	3.170	0.31	2.213	0.13	1.263	0.03	0.803	0.01	0.567	0.00					180
190	14.365	11.70	9.218	3.97	5.296	1.03	3.346	0.34	2.336	0.14	1.333	0.04	0.847	0.01	0.599	0.01					190
200	15.121	12.86	9.703	4.37	5.574	1.13	3.523	0.37	2.459	0.15	1.403	0.04	0.892	0.01	0.631	0.01					200
210	15.877	14.08	10.188	4.78	5.853	1.24	3.699	0.41	2.582	0.17	1.474	0.04	0.937	0.01	0.662	0.01					210
220	16.634	15.35	10.673	5.21	6.132	1.35	3.875	0.44	2.705	0.18	1.544	0.05	0.981	0.02	0.694	0.01					220
230	17.390	16.66	11.158	5.66	6.411	1.47	4.051	0.48	2.827	0.20	1.614	0.05	1.026	0.02	0.725	0.01	0.601	0.00			230
240	18.146	18.03	11.643	6.13	6.689	1.59	4.227	0.52	2.950	0.22	1.684	0.06	1.071	0.02	0.757	0.01	0.627	0.01			240
250	18.902	19.45	12.128	6.61	6.968	1.72	4.403	0.56	3.073	0.23	1.754	0.06	1.115	0.02	0.788	0.01	0.653	0.01			250
260	19.658	20.91	12.614	7.10	7.247	1.84	4.579	0.60	3.196	0.25	1.825	0.06	1.160	0.02	0.820	0.01	0.679	0.01			260
270	20.414	22.43	13.099	7.62	7.525	1.98	4.755	0.65	3.319	0.27	1.895	0.07	1.204	0.02	0.851	0.01	0.705	0.01			270
280			13.584	8.15	7.804	2.12	4.932	0.69	3.442	0.29	1.965	0.07	1.249	0.02	0.883	0.01	0.731	0.01			280
290			14.069	8.70	8.083	2.26	5.108	0.74	3.565	0.31	2.035	0.08	1.294	0.03	0.914	0.01	0.757	0.01			290
300			14.554	9.26	8.362	2.40	5.284	0.79	3.688	0.33	2.105	0.08	1.338	0.03	0.946	0.01	0.783	0.01			300
325			15.767	10.74	9.058	2.79	5.724	0.91	3.995	0.38	2.281	0.10	1.450	0.03	1.025	0.01	0.849	0.01	0.647	0.00	325
350			16.980	12.32	9.755	3.20	6.164	1.05	4.303	0.44	2.456	0.11	1.561	0.04	1.103	0.02	0.914	0.01	0.697	0.01	350
375			18.193	14.00	10.452	3.64	6.605	1.19	4.610	0.50	2.632	0.13	1.673	0.04	1.182	0.02	0.979	0.01	0.747	0.01	375
400			19.405	15.78	11.149	4.10	7.045	1.34	4.917	0.56	2.807	0.14	1.784	0.05	1.261	0.02	1.044	0.01	0.797	0.01	400
425					11.846	4.58	7.485	1.50	5.225	0.63	2.982	0.16	1.896	0.05	1.340	0.02	1.110	0.01	0.846	0.01	425
450					12.542	5.10	7.926	1.67	5.532	0.70	3.158	0.18	2.007	0.06	1.419	0.03	1.175	0.02	0.896	0.01	450
475					13.239	5.63	8.366	1.84	5.839	0.77	3.333	0.20	2.119	0.07	1.498	0.03	1.240	0.02	0.946	0.01	475
500					13.936	6.19	8.806	2.03	6.147	0.85	3.509	0.22	2.230	0.07	1.576	0.03	1.306	0.02	0.996	0.01	500
550					15.330	7.39	9.687	2.42	6.761	1.01	3.860	0.26	2.453	0.09	1.734	0.04	1.436	0.02	1.095	0.01	550
600					16.723	8.68	10.568	2.84	7.376	1.18	4.210	0.30	2.676	0.10	1.892	0.04	1.567	0.03	1.195	0.01	600
650							11.448	3.30	7.991	1.37	4.561	0.35	2.899	0.12	2.049	0.05	1.697	0.03	1.294	0.02	650
700					12.329	3.78	8.605	1.58	8.605	1.58	4.912	0.40	3.122	0.13	2.207	0.06	1.828	0.04	1.394	0.02	700
750					13.210	4.30	9.220	1.79	9.220	1.79	5.263	0.46	3.345	0.15	2.365	0.07	1.958	0.04	1.493	0.02	750
800					14.090	4.84	9.835	2.02	9.835	2.02	5.614	0.52	3.568	0.17	2.522	0.07	2.089	0.05	1.593	0.02	800
900							11.064	2.51	11.064	2.51	6.316	0.64	4.014	0.21	2.837	0.09	2.350	0.06	1.792	0.03	900
1000							12.293	3.05	12.293	3.05	7.017	0.78	4.460	0.26	3.153	0.11	2.611	0.07	1.991	0.04	1000
1100							13.523	3.64	13.523	3.64	7.719	0.93	4.907	0.31	3.468	0.13	2.872	0.08	2.190	0.04	1100
1200							14.752	4.28	14.752	4.28	8.421	1.09	5.353	0.36	3.783	0.16	3.133	0.10	2.390	0.05	1200
1300									9.123	1.27	5.799	0.42	4.098	0.18	3.395	0.11	2.589	0.06			1300
1400									9.824	1.45	6.245	0.48	4.414	0.21	3.656	0.13	2.788	0.07			1400
1500									10.526	1.65	6.691	0.55	4.729	0.24	3.917	0.15	2.987	0.08			1500
2000									14.035	2.82	8.921	0.93	6.305	0.40	5.222	0.25	3.983	0.13			2000
2500									17.544	4.26	11.151	1.41	7.882	0.61	6.528	0.38	4.978	0.20			2500
3000											13.381	1.98	9.458	0.85	7.834	0.54	5.974	0.28			3000
3500											15.612	2.64	11.034	1.13	9.139	0.72	6.970	0.37			3500



NOTE: SHADED AREAS INDICATE VELOCITIES OVER 5 FT/SEC. USE WITH CAUTION