

**FRICITION LOSS CHARACTERISTICS
PVC SCHEDULE 40 IPS PLASTIC PIPE
PRESSURE LOSS PER 100 FT OF PIPE (PSI/100FT)**

C=	150									
SIZE	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"
OD	2.875	3.5	4.5	5.563	6.625	8.625	10.75	12.75	14	16
ID	2.469	3.068	4.026	5.047	6.065	7.981	10.02	11.938	13.124	15
WALL THK	0.203	0.216	0.237	0.258	0.28	0.322	0.365	0.406	0.438	0.5

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	4.016	1.03	2.601	0.36	1.510	0.10	0.961	0.03	0.666	0.01											60
65	4.350	1.19	2.817	0.41	1.636	0.11	1.041	0.04	0.721	0.02											65
70	4.685	1.37	3.034	0.48	1.762	0.13	1.121	0.04	0.776	0.02	0.448	0.00									70
75	5.020	1.55	3.251	0.54	1.888	0.14	1.201	0.05	0.832	0.02	0.480	0.01									75
80	5.354	1.75	3.468	0.61	2.014	0.16	1.281	0.05	0.887	0.02	0.512	0.01									80
85	5.689	1.96	3.684	0.68	2.140	0.18	1.361	0.06	0.943	0.02	0.544	0.01									85
90	6.024	2.18	3.901	0.76	2.265	0.20	1.442	0.07	0.998	0.03	0.576	0.01									90
95	6.358	2.41	4.118	0.84	2.391	0.22	1.522	0.07	1.054	0.03	0.609	0.01									95
100	6.693	2.65	4.335	0.92	2.517	0.25	1.602	0.08	1.109	0.03	0.641	0.01									100
105	7.028	2.90	4.551	1.01	2.643	0.27	1.682	0.09	1.165	0.04	0.673	0.01									105
110	7.362	3.16	4.768	1.10	2.769	0.29	1.762	0.10	1.220	0.04	0.705	0.01									110
115	7.697	3.43	4.985	1.19	2.895	0.32	1.842	0.11	1.276	0.04	0.737	0.01									115
120	8.032	3.71	5.202	1.29	3.021	0.34	1.922	0.11	1.331	0.05	0.769	0.01									120
125	8.366	4.00	5.418	1.39	3.146	0.37	2.002	0.12	1.386	0.05	0.801	0.01									125
130	8.701	4.31	5.635	1.50	3.272	0.40	2.082	0.13	1.442	0.05	0.833	0.01	0.528	0.00							130
135	9.035	4.62	5.852	1.60	3.398	0.43	2.162	0.14	1.497	0.06	0.865	0.02	0.549	0.01							135
140	9.370	4.94	6.068	1.72	3.524	0.46	2.242	0.15	1.553	0.06	0.897	0.02	0.569	0.01							140
145	9.705	5.27	6.285	1.83	3.650	0.49	2.323	0.16	1.608	0.07	0.929	0.02	0.589	0.01							145
150	10.039	5.61	6.502	1.95	3.776	0.52	2.403	0.17	1.664	0.07	0.961	0.02	0.610	0.01							150
160	10.709	6.33	6.935	2.20	4.027	0.59	2.563	0.20	1.775	0.08	1.025	0.02	0.650	0.01							160
170	11.378	7.08	7.369	2.46	4.279	0.66	2.723	0.22	1.886	0.09	1.089	0.02	0.691	0.01							170
180	12.047	7.87	7.802	2.73	4.531	0.73	2.883	0.24	1.997	0.10	1.153	0.03	0.731	0.01							180
190	12.717	8.70	8.236	3.02	4.783	0.81	3.043	0.27	2.107	0.11	1.217	0.03	0.772	0.01							190
200	13.386	9.56	8.669	3.32	5.034	0.89	3.203	0.29	2.218	0.12	1.281	0.03	0.813	0.01							200
210	14.055	10.47	9.103	3.64	5.286	0.97	3.364	0.32	2.329	0.13	1.345	0.03	0.853	0.01	0.601	0.00					210
220	14.725	11.41	9.536	3.96	5.538	1.06	3.524	0.35	2.440	0.14	1.409	0.04	0.894	0.01	0.630	0.01					220
230	15.394	12.39	9.970	4.30	5.789	1.15	3.684	0.38	2.551	0.16	1.473	0.04	0.935	0.01	0.658	0.01					230
240	16.063	13.40	10.403	4.66	6.041	1.24	3.844	0.41	2.662	0.17	1.537	0.04	0.975	0.01	0.687	0.01					240
250	16.732	14.46	10.837	5.02	6.293	1.34	4.004	0.45	2.773	0.18	1.601	0.05	1.016	0.02	0.716	0.01					250
260	17.402	15.54	11.270	5.40	6.545	1.44	4.165	0.48	2.884	0.20	1.665	0.05	1.057	0.02	0.744	0.01					260
270	18.071	16.67	11.703	5.79	6.796	1.54	4.325	0.51	2.995	0.21	1.729	0.06	1.097	0.02	0.773	0.01	0.640	0.00			270
280			12.137	6.20	7.048	1.65	4.485	0.55	3.106	0.22	1.794	0.06	1.138	0.02	0.802	0.01	0.663	0.01			280
290			12.570	6.61	7.300	1.76	4.645	0.59	3.217	0.24	1.858	0.06	1.178	0.02	0.830	0.01	0.687	0.01			290
300			13.004	7.04	7.552	1.88	4.805	0.62	3.328	0.26	1.922	0.07	1.219	0.02	0.859	0.01	0.711	0.01			300
325			14.087	8.17	8.181	2.18	5.206	0.72	3.605	0.30	2.082	0.08	1.321	0.03	0.930	0.01	0.770	0.01			325
350			15.171	9.37	8.810	2.50	5.606	0.83	3.882	0.34	2.242	0.09	1.422	0.03	1.002	0.01	0.829	0.01			350
375			16.255	10.64	9.439	2.84	6.007	0.94	4.159	0.39	2.402	0.10	1.524	0.03	1.074	0.01	0.888	0.01	0.680	0.00	375
400			17.338	12.00	10.069	3.20	6.407	1.06	4.437	0.44	2.562	0.11	1.625	0.04	1.145	0.02	0.948	0.01	0.725	0.01	400
425					10.698	3.58	6.807	1.19	4.714	0.49	2.722	0.13	1.727	0.04	1.217	0.02	1.007	0.01	0.771	0.01	425
450					11.327	3.98	7.208	1.32	4.991	0.54	2.882	0.14	1.829	0.05	1.288	0.02	1.066	0.01	0.816	0.01	450
475					11.957	4.40	7.608	1.46	5.269	0.60	3.043	0.16	1.930	0.05	1.360	0.02	1.125	0.01	0.861	0.01	475
500					12.586	4.83	8.009	1.61	5.546	0.66	3.203	0.17	2.032	0.06	1.431	0.02	1.184	0.02	0.907	0.01	500
550					13.844	5.77	8.810	1.92	6.100	0.79	3.523	0.21	2.235	0.07	1.575	0.03	1.303	0.02	0.997	0.01	550
600					15.103	6.77	9.610	2.26	6.655	0.92	3.843	0.24	2.438	0.08	1.718	0.03	1.421	0.02	1.088	0.01	600
650							10.411	2.62	7.210	1.07	4.164	0.28	2.641	0.09	1.861	0.04	1.540	0.03	1.179	0.01	650
700							11.212	3.00	7.764	1.23	4.484	0.32	2.845	0.11	2.004	0.05	1.658	0.03	1.269	0.01	700
750							12.013	3.41	8.319	1.39	4.804	0.37	3.048	0.12	2.147	0.05	1.777	0.03	1.360	0.02	750
800							12.814	3.84	8.873	1.57	5.124	0.41	3.251	0.14	2.290	0.06	1.895	0.04	1.451	0.02	800
900									9.983	1.95	5.765	0.51	3.657	0.17	2.577	0.07	2.132	0.05	1.632	0.02	900
1000									11.092	2.38	6.405	0.62	4.064	0.21	2.863	0.09	2.369	0.06	1.813	0.03	1000
1100									12.201	2.83	7.046	0.75	4.470	0.25	3.149	0.11	2.606	0.07	1.995	0.03	1100
1200									13.310	3.33	7.686	0.88	4.876	0.29	3.435	0.12	2.843	0.08	2.176	0.04	1200
1300											8.327	1.02	5.283	0.34	3.722	0.14	3.079	0.09	2.357	0.05	1300
1400											8.968	1.16	5.689	0.39	4.008	0.16	3.316	0.10	2.539	0.05	1400
1500											9.608	1.32	6.096	0.44	4.294	0.19	3.553	0.12	2.720	0.06	1500
2000											12.811	2.26	8.127	0.75	5.726	0.32	4.738	0.20	3.627	0.10	2000
2500											16.013	3.41	10.159	1.13	7.157	0.48	5.922	0.30	4.533	0.16	2500
3000											12.191	1.58	8.589	0.67	7.106	0.42	5.440	0.22	3.000		3000
3500											14.223	2.10	10.020	0.90	8.291	0.57	6.347	0.29	3.500		3500



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