

**FRICTION LOSS CHARACTERISTICS
PVC CLASS 200 IPS PLASTIC PIPE
SDR 21 C=150
PRESSURE LOSS PER 100 FT OF PIPE (PSI/100FT)**

C=	150									
SIZE	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"	8"
OD	1.05	1.315	1.66	1.9	2.375	2.875	3.5	4.5	6.625	8.625
ID	0.93	1.189	1.502	1.72	2.149	2.601	3.166	4.072	5.993	7.805
WALL THK	0.06	0.063	0.079	0.09	0.113	0.137	0.167	0.214	0.316	0.41

FLOW GPM	3/4"		1"		1-1/4"		1-1/2"		2"		2-1/2"		3"		4"		6"		8"		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	
1	0.472	0.06	0.289	0.02	0.181	0.01	0.138	0.00	0.088	0.00											1
2	0.943	0.22	0.577	0.07	0.362	0.02	0.276	0.01	0.177	0.00	0.121	0.00									2
3	1.415	0.46	0.866	0.14	0.543	0.04	0.414	0.02	0.265	0.01	0.181	0.00									3
4	1.887	0.79	1.154	0.24	0.723	0.08	0.552	0.04	0.353	0.01	0.241	0.01	0.163	0.00							4
5	2.359	1.19	1.443	0.36	0.904	0.12	0.690	0.06	0.442	0.02	0.302	0.01	0.204	0.00							5
6	2.830	1.67	1.732	0.51	1.085	0.16	0.827	0.08	0.530	0.03	0.362	0.01	0.244	0.00	0.148	0.00					6
7	3.302	2.23	2.020	0.67	1.266	0.22	0.965	0.11	0.618	0.04	0.422	0.01	0.285	0.01	0.172	0.00					7
8	3.774	2.85	2.309	0.86	1.447	0.28	1.103	0.14	0.707	0.05	0.482	0.02	0.326	0.01	0.197	0.00					8
9	4.246	3.55	2.597	1.07	1.628	0.34	1.241	0.18	0.795	0.06	0.543	0.02	0.366	0.01	0.221	0.00					9
10	4.717	4.31	2.886	1.30	1.809	0.42	1.379	0.22	0.883	0.07	0.603	0.03	0.407	0.01	0.246	0.00					10
11	5.189	5.14	3.175	1.56	1.989	0.50	1.517	0.26	0.972	0.09	0.663	0.03	0.448	0.01	0.271	0.00					11
12	5.661	6.04	3.463	1.83	2.170	0.59	1.655	0.30	1.060	0.10	0.724	0.04	0.488	0.02	0.295	0.00	0.136	0.00			12
14	6.604	8.04	4.040	2.43	2.532	0.78	1.931	0.40	1.237	0.14	0.844	0.05	0.570	0.02	0.344	0.01	0.159	0.00			14
16	7.548	10.29	4.618	3.11	2.894	1.00	2.207	0.52	1.414	0.17	0.965	0.07	0.651	0.03	0.394	0.01	0.182	0.00			16
18	8.491	12.80	5.195	3.87	3.255	1.24	2.482	0.64	1.590	0.22	1.086	0.09	0.733	0.03	0.443	0.01	0.204	0.00			18
20	9.435	15.56	5.772	4.71	3.617	1.51	2.758	0.78	1.767	0.26	1.206	0.10	0.814	0.04	0.492	0.01	0.227	0.00			20
22	10.378	18.56	6.349	5.62	3.979	1.80	3.034	0.93	1.944	0.32	1.327	0.12	0.895	0.05	0.541	0.01	0.250	0.00	0.147	0.00	22
24	11.322	21.81	6.926	6.60	4.340	2.12	3.310	1.09	2.120	0.37	1.447	0.15	0.977	0.06	0.591	0.02	0.273	0.00	0.161	0.00	24
26			7.504	7.65	4.702	2.45	3.586	1.27	2.297	0.43	1.568	0.17	1.058	0.07	0.640	0.02	0.295	0.00	0.174	0.00	26
28			8.081	8.78	5.064	2.82	3.862	1.46	2.474	0.49	1.689	0.19	1.140	0.07	0.689	0.02	0.318	0.00	0.188	0.00	28
30			8.658	9.97	5.426	3.20	4.137	1.65	2.650	0.56	1.809	0.22	1.221	0.08	0.738	0.02	0.341	0.00	0.201	0.00	30
35			10.101	13.27	6.330	4.26	4.827	2.20	3.092	0.74	2.111	0.29	1.425	0.11	0.861	0.03	0.398	0.01	0.234	0.00	35
40			11.544	16.99	7.234	5.45	5.516	2.82	3.534	0.95	2.412	0.38	1.628	0.14	0.984	0.04	0.454	0.01	0.268	0.00	40
45					8.138	6.78	6.206	3.51	3.976	1.19	2.714	0.47	1.832	0.18	1.107	0.05	0.511	0.01	0.301	0.00	45
50					9.043	8.24	6.896	4.26	4.417	1.44	3.015	0.57	2.035	0.22	1.230	0.06	0.568	0.01	0.335	0.00	50
55					9.947	9.83	7.585	5.08	4.859	1.72	3.317	0.68	2.239	0.26	1.353	0.08	0.625	0.01	0.368	0.00	55
60					10.851	11.55	8.275	5.97	5.301	2.02	3.619	0.80	2.442	0.31	1.476	0.09	0.682	0.01	0.402	0.00	60
65					11.755	13.39	8.964	6.93	5.742	2.34	3.920	0.93	2.646	0.36	1.599	0.10	0.738	0.02	0.435	0.00	65
70					12.660	15.36	9.654	7.95	6.184	2.69	4.222	1.06	2.849	0.41	1.722	0.12	0.795	0.02	0.469	0.01	70
75					10.343	9.03	6.626	3.05	4.523	1.21	3.053	0.46	1.845	0.14	0.852	0.02	0.502	0.01			75
80					11.033	10.17	7.068	3.44	4.825	1.36	3.256	0.52	1.968	0.15	0.909	0.02	0.536	0.01			80
85					11.723	11.38	7.509	3.85	5.126	1.52	3.460	0.58	2.092	0.17	0.966	0.03	0.569	0.01			85
90					12.412	12.65	7.951	4.28	5.428	1.69	3.663	0.65	2.215	0.19	1.022	0.03	0.603	0.01			90
95					13.102	13.99	8.393	4.73	5.729	1.87	3.867	0.72	2.338	0.21	1.079	0.03	0.636	0.01			95
100					13.791	15.38	8.835	5.20	6.031	2.06	4.070	0.79	2.461	0.23	1.136	0.04	0.670	0.01			100
110					15.170	18.35	9.718	6.21	6.634	2.45	4.477	0.94	2.707	0.28	1.250	0.04	0.737	0.01			110
120							10.602	7.30	7.237	2.88	4.884	1.11	2.953	0.33	1.363	0.05	0.804	0.01			120
130							11.485	8.46	7.840	3.34	5.292	1.28	3.199	0.38	1.477	0.06	0.871	0.02			130
140							12.368	9.71	8.443	3.83	5.699	1.47	3.445	0.43	1.590	0.07	0.938	0.02			140
150							13.252	11.03	9.046	4.36	6.106	1.67	3.691	0.49	1.704	0.08	1.005	0.02			150
160									9.649	4.91	6.513	1.89	3.937	0.55	1.818	0.08	1.072	0.02			160
170									10.252	5.49	6.920	2.11	4.183	0.62	1.931	0.09	1.139	0.03			170
180									10.856	6.11	7.327	2.35	4.429	0.69	2.045	0.11	1.206	0.03			180
190									11.459	6.75	7.734	2.59	4.675	0.76	2.158	0.12	1.273	0.03			190
200									12.062	7.42	8.141	2.85	4.921	0.84	2.272	0.13	1.340	0.04			200
225									13.569	9.23	9.158	3.55	5.536	1.04	2.556	0.16	1.507	0.04			225
250											10.176	4.31	6.152	1.27	2.840	0.19	1.674	0.05			250
275											11.194	5.14	6.767	1.51	3.124	0.23	1.842	0.06			275
300											12.211	6.04	7.382	1.78	3.408	0.27	2.009	0.07			300
325											13.229	7.01	7.997	2.06	3.692	0.31	2.177	0.09			325
350													8.612	2.36	3.976	0.36	2.344	0.10			350
375													9.227	2.68	4.260	0.41	2.512	0.11			375
400													9.842	3.03	4.544	0.46	2.679	0.13			400
425													10.458	3.38	4.828	0.52	2.846	0.14			425
450													11.073	3.76	5.112	0.57	3.014	0.16			450
475													11.688	4.16	5.396	0.63	3.181	0.18			475
500													12.303	4.57	5.680	0.70	3.349	0.19			500
550															6.248	0.83	3.684	0.23			550
600															6.816	0.98	4.019	0.27			600



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