



Discharge		Pressure Drop per 100 Feet and Velocity in Schedule 40 Pipe for Water at 60F															
Gallons Per Minute	Cubic Ft. Per Second	1/8"		1/4"		3/8"		1/2"		3/4"		1"		1 1/4"		1 1/2"	
		Velocity Ft Per Second	Press. Drop Lbs per Sq. In	Velocity Ft Per Second	Press. Drop Lbs per Sq. In	Velocity Ft Per Second	Press. Drop Lbs per Sq. In	Velocity Ft Per Second	Press. Drop Lbs per Sq. In	Velocity Ft Per Second	Press. Drop Lbs per Sq. In	Velocity Ft Per Second	Press. Drop Lbs per Sq. In	Velocity Ft Per Second	Press. Drop Lbs per Sq. In	Velocity Ft Per Second	Press. Drop Lbs per Sq. In
0.2	0.000446	1.13	1.86	0.616	0.359												
0.3	0.000668	1.69	4.22	0.924	0.903	0.504	0.159	0.317	0.061								
0.4	0.000891	2.26	6.98	1.232	1.61	0.672	0.345	0.422	0.086								
0.5	0.00111	2.82	10.5	1.54	2.39	0.840	0.539	0.528	0.167	0.301	0.033						
0.6	0.00133	3.39	14.7	1.85	3.29	1.01	0.751	0.633	0.240	0.361	0.041						
0.8	0.00178	4.52	25.0	2.46	5.44	1.34	1.25	0.844	0.408	0.481	0.102						
1	0.00223	5.65	37.2	3.08	8.28	1.68	1.85	1.06	0.600	0.60	0.155	0.371	0.048				
2	0.00446	11.29	134.4	6.16	30.1	3.36	6.58	2.11	2.10	1.20	0.526	0.743	0.164	0.429	0.044		
3	0.00668			9.25	64.1	5.04	13.9	3.17	4.33	1.81	1.09	1.114	0.336	0.644	0.090	0.473	0.043
4	0.00891			12.33	111.2	6.72	23.9	4.22	7.42	2.41	1.83	1.49	0.565	0.858	0.150	0.630	0.071
5	0.01114	2"				8.40	36.7	5.28	11.2	3.01	2.75	1.86	0.835	1.073	0.223	0.788	0.104
6	0.01337	0.574	0.044			10.08	51.9	6.33	15.8	3.61	3.84	2.23	1.17	1.29	0.309	0.946	0.145
8	0.01782	0.765	0.073	2 1/2"		13.44	91.1	8.45	27.7	4.81	6.60	2.97	1.99	1.72	0.518	1.26	0.241
10	0.02228	0.956	0.108	0.67	0.046			10.56	42.4	6.02	9.99	3.71	2.99	2.15	0.774	1.58	0.361
15	0.03342	1.43	0.224	1.01	0.094	3"				9.03	21.6	5.57	6.36	3.22	1.63	2.37	0.755
20	0.04456	1.91	0.375	1.34	0.158	0.868	0.056			12.03	37.8	7.43	10.9	4.29	2.78	3.16	1.28
25	0.05570	2.39	0.561	1.68	0.234	1.09	0.083	0.812	0.041			9.28	16.7	5.37	4.22	3.94	1.93
30	0.06684	2.87	0.786	2.01	0.327	1.30	0.114	0.974	0.056			11.14	23.8	6.44	5.92	4.73	2.72
35	0.07798	3.35	1.05	2.35	0.436	1.52	0.151	1.14	0.071	0.882	0.041	12.99	32.2	7.51	7.9	5.52	3.64
40	0.08912	3.83	1.35	2.68	0.556	1.74	0.192	1.30	0.095	1.01	0.052	14.85	41.5	8.59	10.24	6.30	4.65
45	0.1003	4.30	1.67	3.02	0.668	1.95	0.239	1.46	0.117	1.13	0.064			9.67	12.80	7.09	5.85
50	0.1114	4.78	2.03	3.35	0.839	2.17	0.388	1.62	0.142	1.26	0.076			10.74	15.66	7.88	7.15
60	0.1337	5.74	2.87	4.02	1.18	2.60	0.406	1.95	0.204	1.51	0.107			12.89	22.2	9.47	10.21
70	0.1560	6.70	3.84	4.69	1.59	3.04	0.540	2.27	0.261	1.76	0.143	1.12	0.047			11.05	13.71
80	0.1783	7.65	4.97	5.36	2.03	3.47	0.687	2.60	0.334	2.02	0.180	1.28	0.060			12.62	17.59
90	0.2006	8.60	6.20	6.03	2.53	3.91	0.861	2.92	0.416	2.27	0.224	1.44	0.074	6"		14.20	22.0
100	0.2228	9.56	7.59	6.70	3.09	4.34	1.05	3.25	0.509	2.52	0.272	1.60	0.090			15.78	26.9
125	0.2785	11.97	11.76	8.38	4.71	5.43	1.61	4.06	0.769	3.15	0.415	2.01	0.135			19.72	41.4
150	0.3342	14.36	16.70	10.05	6.69	6.51	2.24	4.87	1.08	3.78	0.580	2.41	0.190				
175	0.3899	16.75	22.3	11.73	8.97	7.60	3.00	5.68	1.44	4.41	0.774	2.81	0.253				
200	0.4456	19.14	28.8	13.42	11.68	8.68	3.87	6.49	1.85	5.04	0.985	3.21	0.323			8"	
225	0.5013			15.09	14.63	9.77	4.83	7.30	2.32	5.67	1.23	3.61	0.401			1.44	0.043
250	0.5570					10.85	5.93	8.12	2.84	6.30	1.46	4.01	0.495			1.60	0.051
275	0.6127					11.94	7.14	8.93	3.40	6.93	1.79	4.41	0.583			1.76	0.061
300	0.6684					13.00	8.36	9.74	4.02	7.56	2.11	4.81	0.683			1.92	0.072
325	0.7241					14.12	9.89	10.53	4.09	8.19	2.47	5.21	0.797			2.08	0.083
350	0.7798							11.36	5.41	8.82	2.84	5.62	0.919			2.24	0.095
375	0.8355							12.17	6.18	9.45	3.25	6.02	1.05			2.40	0.108
400	0.8912							12.98	7.03	10.08	3.68	6.42	1.19			2.56	0.121
425	0.9469							13.80	7.89	10.71	4.12	6.82	1.33			2.73	0.136
450	1.003	10"						14.61	8.80	11.34	4.60	7.22	1.48			2.89	0.151
475	1.059	1.93	0.054							11.97	5.12	7.62	1.64			3.04	0.166
500	1.114	2.03	0.059							12.60	5.65	8.02	1.81			3.21	0.182
550	1.225	2.24	0.071							13.85	6.79	9.82	2.17			3.53	0.219
600	1.337	2.44	0.083							15.12	8.04	9.63	2.55			3.85	0.258
650	1.448	2.64	0.097	12"								10.43	2.98			4.17	0.301
700	1.560	2.85	0.112	2.01	0.047							11.23	3.43			4.49	0.343
750	1.671	3.05	0.127	2.15	0.054							12.03	3.92			4.81	0.392
800	1.782	3.25	0.143	2.29	0.061							12.83	4.43			5.13	0.443
850	1.894	3.46	0.160	2.44	0.068	2.02	0.042					13.64	5.00			5.45	0.497
900	2.005	3.66	0.179	2.58	0.075	2.13	0.047					14.44	5.58			5.77	0.554
950	2.117	3.86	0.198	2.72	0.063	2.35	0.052					15.24	6.21			6.09	0.613
1000	2.228	4.07	0.218	2.87	0.091	2.37	0.057					16.04	6.84			6.41	0.675
1100	2.451	4.48	0.260	3.15	0.110	2.61	0.068					17.65	8.23			7.05	0.807
1200	2.674	4.88	0.306	3.44	0.128	2.81	0.080	2.18	0.042							7.70	0.948
1300	2.896	5.29	0.355	3.73	0.150	3.08	0.093	2.36	0.048							8.18	1.11
1400	3.119	5.70	0.409	4.01	0.171	3.32	0.107	2.54	0.055							8.98	1.28
1500	3.342	6.10	0.466	4.30	0.195	3.56	0.122	2.72	0.063							9.62	1.46
1600	3.565	6.51	0.527	4.59	0.219	3.79	0.138	2.90	0.071							10.26	1.65
1800	4.010	7.32	0.663	5.16	0.276	4.27	0.172	3.27	0.088	2.58	0.050					11.54	2.08
2000	4.456	8.14	0.808	5.73	0.339	4.74	0.209	3.63	0.107	2.87	0.060					12.82	2.55
2500	5.570	10.17	1.24	7.17	0.515	5.93	0.321	4.54	0.163	3.59	0.091					16.03	3.94
3000	6.684	12.20	1.76	8.60	0.731	7.11	0.451	5.45	0.232	4.3	0.129	3.46	0.075	24"		19.24	5.59
3500	7.798	14.24	2.38	10.03	0.982	8.30	0.607	6.35	0.312	5.02	0.173	4.04	0.101			22.44	7.56
4000	8.912	16.27	3.68	11.47	1.27	9.68	0.787	7.26	0.401	5.75	0.222	4.62	0.129			25.65	9.80
4500	10.03	18.31	3.87	12.9	1.60	10.67	0.990	8.17	0.503	6.46	0.280	5.20	0.162			28.87	12.2
5000	11.14	20.35	4.21	14.33	1.95	11.81	1.21	9.08	0.617	7.17	0.340	5.77	0.199			3.99	0.079
6000	13.37	24.41	6.74	17.20	2.77	14.23	1.71	10.89	0.877	8.61	0.483	6.93	0.280			4.79	0.111
7000	15.60	28.49	9.11	20.07	3.74	16.60	2.31	12.71	1.18	10.04	0.652	8.08	0.376			5.59	0.150
8000	17.82			22.93	4.84	18.95	2.99	14.52	1.51	11.47	0.839	9.23	0.488			6.38	0.192
9000	20.06			25.79	6.09	21.34	3.76	16.34	1.90	12.91	1.05	10.39	0.608			7.18	0.242