

Dultmeier Sales

Pressure Loss for Water Flow PSI Per 100 Feet of Steel Pipe

Flow Rate		Diameter (In.)										
Gallons Per/Min.	Cubic Feet Per/Second	4	5	6	8	10	12	14	16	18	20	24
35	.078	.041										
40	.089	.052										
45	.100	.064										
50	.111	.076										
60	.134	.107										
70	.156	.143	.047									
80	.178	.180	.060									
90	.200	.224	.074									
100	.223	.272	.090	.036								
125	.278	.415	.135	.055								
150	.334	.580	.190	.077								
175	.390	.774	.253	.102								
200	.446	.985	.323	.130								
225	.501	1.23	.401	.162	.043							
250	.557	1.46	.495	.195	.051							
275	.613	1.79	.583	.234	.061							
300	.668	2.11	.683	.275	.072							
325	.724	2.47	.797	.320	.083							
350	.780	2.84	.919	.367	.095							
375	.836	3.25	1.05	.416	.108							
400	.891	3.68	1.19	.471	.121							
425	.947	4.12	1.33	.529	.136							
450	1.00	4.60	1.48	.590	.151							
475	1.06	5.12	1.64	.653	.166							
500	1.11	5.65	1.81	.720	.182	.059						
550	1.22	6.79	2.17	.861	.219	.071						
600	1.34	8.04	2.55	1.02	.258	.083						
650	1.45		2.98	1.18	.301	.097						
700	1.56		3.43	1.35	.343	.112	.047					
750	1.67		3.92	1.55	.392	.127	.054					
800	1.78		4.43	1.75	.443	.143	.061					
850	1.89		5.00	1.96	.497	.160	.068	.042				
900	2.00		5.58	2.18	.554	.179	.075	.047				
950	2.12		6.21	2.42	.613	.198	.083	.052				
1000	2.23		6.84	2.68	.675	.218	.091	.057				
1100	2.45		8.23	3.22	.807	.260	.110	.068				
1200	2.67			3.81	.948	.306	.128	.090	.042			
1300	2.90			4.45	1.11	.355	.150	.093	.048			
1400	3.12			5.13	1.28	.409	.171	.107	.055			
1500	3.34			5.85	1.46	.466	.195	.122	.063			
1600	3.56			6.61	1.65	.527	.219	.138	.071			
1800	4.01			8.37	2.08	.663	.276	.172	.088	.050		
2000	4.46			10.3	2.55	.808	.339	.209	.107	.060		
2500	5.57				3.94	1.24	.515	.321	.163	.091		
3000	6.68				5.59	1.76	.731	.451	.232	.129	.075	
3500	7.80				7.56	2.38	.982	.607	.312	.173	.101	
4000	8.91				9.80	3.08	1.27	.787	.401	.222	.129	.052
4500	10.03				12.2	3.87	1.60	.990	.503	.280	.162	.065
5000	11.14					4.71	1.95	1.21	.617	.340	.199	.079
6000	13.37					6.74	2.77	1.71	.877	.483	.280	.111
7000	15.60					9.11	3.74	2.31	1.18	.652	.376	.150
8000	17.82						4.84	2.99	1.51	.839	.488	.192
9000	20.05						6.09	3.76	1.90	1.05	.608	.242
10000	22.28						7.46	4.61	2.34	1.28	.739	.294
12000	26.74						10.7	6.59	3.33	1.83	1.06	.416
14000	31.19							8.89	4.49	2.45	1.43	.562
16000	35.65								5.83	3.18	1.85	.723
18000	40.10								7.31	4.03	2.32	.907
20000	44.56								9.03	4.93	2.86	1.12

Note: Based on Schedule 40 Pipe
Ref. Pipe Friction Manual of the Hydraulic Institute.