

Carrying Capacity and Friction Loss for Schedule 40 Thermoplastic Pipe

Gallons per minute	Velocity Ft. Per Second	Friction Head Feet	Velocity Ft. Per Second	Friction Head Test	Velocity Ft. Per Second	Friction Head Test	Velocity Ft. Per Second	Friction Head Test	Velocity Ft. Per Second	Friction Head Test	Velocity Ft. Per Second	Friction Head Test	Velocity Ft. Per Second	Friction Head Test	Velocity Ft. Per Second	Friction Head Test
	1/2 in.		3/4 in.		1 in.		1 1/4 in.		1 1/2 in.		2 in.		2 1/2 in.		3 in.	
1	1.13	2.08	0.63	0.51												
2	2.26	4.16	1.26	1.02	0.77	0.55	0.44	0.14	0.33	0.07						
5	5.64	23.44	3.16	5.73	1.93	1.72	1.11	0.44	0.81	0.22	0.49	0.066	0.30	0.038	0.22	0.015
7	7.90	43.06	4.43	10.52	2.72	3.17	1.55	0.81	1.13	0.38	0.69	0.11	0.49	0.051	0.31	0.021
10	11.28	82.02	6.32	20.04	3.86	6.02	2.21	1.55	1.62	0.72	0.98	0.21	0.68	0.09	0.44	0.03
15	4 in.		9.48	42.46	5.79	12.77	3.31	3.28	2.42	1.53	1.46	0.45	1.03	0.19	0.66	0.07
20	0.51	0.03	12.65	72.34	7.72	21.75	4.42	5.59	3.23	2.61	1.95	0.76	1.37	0.32	0.88	0.11
25	0.64	0.04	5 in.		9.65	32.88	5.52	8.45	4.04	3.95	2.44	1.15	1.71	0.49	1.10	0.17
30	0.77	0.06	0.49	0.02	11.58	46.08	6.63	11.85	4.85	5.53	2.93	1.62	2.05	0.68	1.33	0.23
35	0.89	0.08	0.57	0.03			7.73	15.76	5.66	7.36	3.41	2.15	2.39	0.91	1.55	0.31
40	1.02	0.11	0.65	0.03			8.84	20.18	6.47	9.43	3.90	2.75	2.73	1.16	1.77	0.40
45	1.15	0.13	0.73	0.04	6 in.		9.94	25.10	7.27	11.73	4.39	3.43	3.08	1.44	1.99	0.50
50	1.28	0.16	0.81	0.05	0.56	0.02	11.05	30.51	8.08	14.25	4.88	4.16	3.42	1.75	2.21	0.60
60	1.53	0.22	0.97	0.07	0.67	0.03			9.70	19.98	5.85	5.84	4.10	2.46	2.65	0.85
70	1.79	0.30	1.14	0.10	0.79	0.04					6.83	7.76	4.79	3.27	3.09	1.13
75	1.92	0.34	1.22	0.11	0.84	0.05					7.32	8.82	5.13	3.71	3.31	1.28
80	2.05	0.38	1.30	0.13	0.90	0.05	8 in.				7.80	9.94	5.47	4.19	3.53	1.44
90	2.30	0.47	1.46	0.16	1.01	0.06					8.78	12.37	6.15	5.21	3.98	1.80
100	2.56	0.58	1.62	0.19	1.12	0.08	0.65	0.03			9.75	15.03	6.84	6.33	4.42	2.18
125	3.20	0.88	2.03	0.29	1.41	0.12	0.81	0.035	10 in.				8.55	9.58	5.52	3.31
150	3.84	1.22	2.44	0.40	1.69	0.16	0.97	0.04					10.26	13.41	6.63	4.63
175	4.48	1.63	2.84	0.54	1.97	0.22	1.14	0.055							7.73	6.16
200	5.11	2.08	3.25	0.69	2.25	0.28	1.30	0.07	0.82	0.027	12 in.				8.83	7.88
250	6.40	3.15	4.06	1.05	2.81	0.43	1.63	0.11	1.03	0.035					11.04	11.93
300	7.67	4.41	4.87	1.46	3.37	0.60	1.94	0.16	1.23	0.05						
350	8.95	5.87	5.69	1.95	3.94	0.79	2.27	0.21	1.44	0.065	1.01	0.027				
400	10.23	7.52	6.50	2.49	4.49	1.01	2.59	0.27	1.64	0.09	1.16	0.04				
450			7.31	3.09	5.06	1.26	2.92	0.33	1.85	0.11	1.30	0.05				
500			8.12	3.76	5.62	1.53	3.24	0.40	2.05	0.13	1.45	0.06				
750					8.43	3.25	4.86	0.85	3.08	0.28	2.17	0.12				
1000					11.24	5.54	6.48	1.45	4.11	0.48	2.89	0.20				
1250							8.11	2.20	5.14	0.73	3.62	0.31				
1500							9.72	3.07	6.16	1.01	4.34	0.43				
2000									8.21	1.72	5.78	0.73				
2500									10.27	2.61	7.23	1.11				
3000											8.68	1.55				
3500											10.12	2.07				
4000											11.07	2.66				

SOURCE: WWW.ODESSAPUMPS.COM