



Count on it.

Friction Loss

High Density Polyethylene ID Controlled Hose

Friction Loss Charts for ID Controlled Hose

Losses in psi per 100 feet of hose (psi/100ft). For hose sizes: 13 mm (.516") ID through 26 mm (1.052") ID

Part No.		HD1350		HDF2062		HDF2670			
Nom. ID		0.520"		0.827"		1.052"			
Min. ID		0.516"		0.824"		1.049"			
Nom. Wall		0.050"		0.060"		0.070"			
Flow		Velocity		Loss		Velocity		Loss	
GPM	GPH	FPS	Psi	FPS	Psi	FPS	Psi	FPS	Psi
0.5	30	0.77	0.34	0.30	0.03	0.19	0.01		
1.0	60	1.53	1.21	0.60	0.12	0.37	0.04		
1.5	90	2.30	2.56	0.90	0.26	0.56	0.08		
2.0	120	3.07	4.37	1.20	0.45	0.74	0.14		
2.5	150	3.84	6.60	1.50	0.68	0.93	0.21		
3.0	180	4.60	9.26	1.80	0.95	1.11	0.29		
3.5	210	5.37	12.31	2.11	1.26	1.30	0.39		
4.0	240	6.14	15.77	2.41	1.61	1.48	0.50		
4.5	270	6.90	19.61	2.71	2.01	1.67	0.62		
5.0	300	7.67	23.84	3.01	2.44	1.86	0.75		
6.0	360	9.21	33.41	3.61	3.42	2.23	1.06		
7.0	420	10.74	44.45	4.21	4.55	2.60	1.40		
8.0	480	12.27	56.92	4.81	5.83	2.97	1.80		
9.0	540	13.81	70.80	5.41	7.25	3.34	2.24		
10.0	600			6.02	8.81	3.71	2.72		
11.0	660			6.62	10.51	4.08	3.24		
12.0	720			7.22	12.34	4.45	3.81		
13.0	780			7.82	14.32	4.83	4.42		
14.0	840			8.42	16.42	5.20	5.07		
15.0	900			9.02	18.66	5.57	5.76		
16.0	960			9.63	21.03	5.94	6.49		
17.0	1,020			10.23	23.53	6.31	7.26		
18.0	1,080			10.83	26.16	6.68	8.07		
19.0	1,140			11.43	28.91	7.05	8.92		
20.0	1,200			12.03	31.79	7.42	9.81		
21.0	1,260			12.63	34.80	7.80	10.74		
22.0	1,320			13.24	37.93	8.17	11.71		
23.0	1,380			13.84	41.18	8.54	12.71		
24.0	1,440			14.44	44.56	8.91	13.75		
25.0	1,500			15.04	48.06	9.28	14.83		
30.0	1,800			18.05	67.37	11.14	20.79		
35.0	2,100			21.06	89.63	12.99	27.66		
40.0	2,400			24.07	114.77	14.85	35.42		
45.0	2,700					16.71	44.05		
50.0	3,000					18.56	53.54		

Friction losses are calculated using Hazen-Williams equation (C = 140) and minimum inside diameters.