



# Friction Loss

## Polyethylene ID Controlled Hose

### ID Controlled Round Hose

Losses in psi per 100 feet of hose (psi/100 ft) for hose sizes: 13 mm (.509") ID through 16 mm (.627") ID

Part No.	Nom. ID	Min. ID	Min. Wall	EHD1335		EHD1348		EHD1350		EHD1443		EHD1554		EHD1635		EHD1642		EHD1645	
				Velocity FPS	Loss Psi	Velocity FPS	Loss Psi	Velocity FPS	Loss Psi	Velocity FPS	Loss Psi	Velocity FPS	Loss Psi	Velocity FPS	Loss Psi	Velocity FPS	Loss Psi	Velocity FPS	Loss Psi
	0.5			0.80	0.37	0.79	0.35	0.77	0.34	0.68	0.25	0.63	0.21	0.54	0.14	0.52	0.13	0.54	0.14
	1.0			1.60	1.33	1.57	1.28	1.53	1.21	1.37	0.91	1.26	0.75	1.09	0.52	1.05	0.48	1.09	0.52
	1.5			2.39	2.82	2.36	2.71	2.30	2.56	2.05	1.93	1.89	1.59	1.63	1.11	1.57	1.02	1.63	1.11
	2.0			3.19	4.80	3.14	4.62	3.07	4.37	2.73	3.29	2.52	2.71	2.17	1.89	2.10	1.73	2.17	1.89
	2.5			3.99	7.26	3.93	6.99	3.84	6.60	3.41	4.97	3.15	4.10	2.72	2.85	2.62	2.62	2.72	2.85
	3.0			4.79	10.18	4.71	9.80	4.60	9.26	4.10	6.97	3.79	5.75	3.26	4.00	3.15	3.67	3.26	4.00
	3.5			5.58	13.55	5.50	13.04	5.37	12.31	4.78	9.27	4.42	7.65	3.80	5.32	3.67	4.88	3.80	5.32
	4.0			6.38	17.35	6.28	16.69	6.14	15.77	5.46	11.87	5.05	9.79	4.35	6.81	4.20	6.25	4.35	6.81
	4.5			7.18	21.57	7.07	20.76	6.90	19.61	6.14	14.76	5.68	12.18	4.89	8.48	4.72	7.77	4.89	8.48
	5.0			7.98	26.22	7.85	25.24	7.67	23.84	6.83	17.94	6.31	14.81	5.44	10.30	5.25	9.45	5.44	10.30
	6.0			9.57	36.75	9.42	35.37	9.21	33.41	8.19	25.15	7.57	20.75	6.52	14.44	6.29	13.24	6.52	14.44
	7.0			11.17	48.90	10.99	47.06	10.74	44.45	9.56	33.46	8.83	27.61	7.61	19.21	7.34	17.62	7.61	19.21
	8.0					12.56	60.26	12.27	56.92	10.92	42.85	10.09	35.36	8.70	24.60	8.39	22.56	8.70	24.60
	9.0					14.13	74.95	13.81	70.80	12.29	53.29	11.36	43.98	9.78	30.60	9.44	28.06	9.78	30.60
	10.0									13.65	64.77			10.87	37.19	10.49	34.11	10.87	37.19
	11.0											13.88	63.77	11.96	44.37	11.54	40.69	11.96	44.37
	12.0											15.14	74.93			12.59	47.81	13.05	52.13

Losses in psi per 100 feet of hose (psi/100 ft) for hose sizes: 18 mm (.726") ID through 35 mm (1.360") ID

Part No.	Nom. ID	Min. ID	Min. Wall	EHD1845		EHD1847		EHD1850		EHF2052		EHF2057		EHF2662		EHD2667		EHD3580	
				Velocity FPS	Loss Psi	Velocity FPS	Loss Psi	Velocity FPS	Loss Psi	Velocity FPS	Loss Psi	Velocity FPS	Loss Psi	Velocity FPS	Loss Psi	Velocity FPS	Loss Psi	Velocity FPS	Loss Psi
	1			0.82	0.26	0.78	0.23	0.78	0.23	0.63	0.14	0.63	0.14	0.37	0.04	0.37	0.04	0.22	0.01
	2			1.63	0.94	1.55	0.83	1.55	0.83	1.26	0.50	1.26	0.50	0.73	0.13	0.73	0.13	0.44	0.04
	3			2.45	2.00	2.33	1.75	2.33	1.75	1.90	1.07	1.90	1.07	1.10	0.28	1.10	0.28	0.66	0.08
	4			3.27	3.40	3.10	2.99	3.10	2.99	2.53	1.82	2.53	1.82	1.47	0.48	1.47	0.48	0.88	0.14
	5			4.09	5.14	3.88	4.52	3.88	4.52	3.16	2.75	3.16	2.75	1.83	0.73	1.83	0.73	1.10	0.21
	6			4.90	7.21	4.65	6.34	4.65	6.34	3.79	3.85	3.79	3.85	2.20	1.02	2.20	1.02	1.33	0.30
	7			5.72	9.59	5.43	8.43	5.43	8.43	4.42	5.13	4.42	5.13	2.56	1.36	2.56	1.36	1.55	0.40
	8			6.54	12.28	6.20	10.79	6.20	10.79	5.06	6.57	5.06	6.57	2.93	1.74	2.93	1.74	1.77	0.51
	9			7.36	15.27	6.98	13.42	6.98	13.42	5.69	8.17	5.69	8.17	3.30	2.16	3.30	2.16	1.99	0.63
	10			8.17	18.57	7.75	16.32	7.75	16.32	6.32	9.93	6.32	9.93	3.66	2.63	3.66	2.63	2.21	0.77
	11			8.99	22.15	8.53	19.47	8.53	19.47	6.95	11.84	6.95	11.84	4.03	3.14	4.03	3.14	2.43	0.92
	12			9.81	26.02	9.30	22.87	9.30	22.87	7.58	13.91	7.58	13.91	4.40	3.69	4.40	3.69	2.65	1.08
	13			10.62	30.18	10.08	26.52	10.08	26.52	8.22	16.14	8.22	16.14	4.76	4.28	4.76	4.28	2.87	1.25
	14			11.69	36.04	11.09	31.68	11.09	31.68	9.04	19.27	9.04	19.27	5.24	5.11	5.24	5.11	3.16	1.49
	15			12.54	41.01	11.89	36.04	11.89	36.04	9.69	21.93	9.69	21.93	5.62	5.81	5.62	5.81	3.39	1.70
	16			13.38	46.27	12.69	40.66	12.69	40.66	10.35	24.74	10.35	24.74	6.00	6.56	6.00	6.56	3.62	1.91
	17			1,044	51.82	13.49	45.54	13.49	45.54	11.00	27.71	11.00	27.71	6.38	7.34	6.38	7.34	3.84	2.14
	18			1,080		13.95	48.46	13.95	48.46	11.38	29.48	11.38	29.48	6.59	7.81	6.59	7.81	3.98	2.28
	19			1,140		14.73	53.56	14.73	53.56	12.01	32.59	12.01	32.59	6.96	8.64	6.96	8.64	4.20	2.52
	20			1,200						12.64	35.83	12.64	35.83	7.33	9.50	7.33	9.50	4.42	2.77
	22			1,320						13.90	42.75	13.90	42.75	8.06	11.33	8.06	11.33	4.86	3.31
	24			1,440						15.17	50.23	15.17	50.23	8.79	13.31	8.79	13.31	5.30	3.88
	26			1,560						16.43	58.25	16.43	58.25	9.52	15.44	9.52	15.44	5.74	4.50
	28			1,680						17.69	66.82	17.69	66.82	10.26	17.71	10.26	17.71	6.18	5.17
	30			1,800						18.96	75.93	18.96	75.93	10.99	20.13	10.99	20.13	6.63	5.87
	32			1,920								20.22	85.57	11.72	22.68	11.72	22.68	7.07	6.62
	34			2,040										12.45	25.38	12.45	25.38	7.51	7.40
	36			2,160										13.19	28.21	13.19	28.21	7.95	8.23
	38			2,280										13.92	31.18	13.92	31.18	8.39	9.10
	40			2,400										14.65	34.29	14.65	34.29	8.83	10.00
	45			2,700										16.48	42.65	16.48	42.65	9.94	12.44
	50			3,000										18.32	51.84	18.32	51.84	11.04	15.12
	55			3,300										20.15	61.84	20.15	61.84	12.15	18.04
	60			3,600										21.98	72.66	21.98	72.66	13.25	21.19
	65			3,900												23.81	84.27	14.36	24.58
	70			4,200														15.46	28.19
	75			4,500														16.56	32.04
	80			4,800														17.67	36.11
	85			5,100														18.77	40.40
	90			5,400														19.88	44.91
	95			5,700														20.98	49.64

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



Count on it.

# Friction Loss

## Polyethylene Oval Hose - 42 psi

### Friction Loss Charts for ID Controlled 42 psi Oval Hose

Losses in psi per 100 feet of hose (psi/100 ft) for hose sizes: 14 mm (0.555") ID through 52 mm (2.052") ID

Part No.		ELD1440		ELD1634 ELD1642		ELD2043		ELD2654		ELD3570		ELD4084		ELD52108	
Nom. ID		0.555"		0.633"		0.813"		1.043"		1.365"		1.595"		2.052"	
Min. ID		0.550"		0.630"		0.810"		1.040"		1.360"		1.590"		2.047"	
Min. Wall		0.043"		0.037"		0.046"		0.057"		0.074"		0.088"		0.112"	
Flow		Velocity		Velocity		Velocity		Velocity		Velocity		Velocity		Velocity	
GPM	GPH	FPS	Psi	FPS	Psi	FPS	Psi	FPS	Psi	FPS	Psi	FPS	Psi	FPS	Psi
1	60	1.35	0.89	1.03	0.46	0.62	0.13	0.38	0.04	0.16	0.01	0.16	0.01	0.10	0.00
2	120	2.70	3.20	2.06	1.65	1.25	0.49	0.76	0.14	0.32	0.02	0.32	0.02	0.19	0.01
3	180	4.05	6.78	3.09	3.50	1.87	1.03	1.13	0.30	0.48	0.04	0.48	0.04	0.29	0.01
4	240	5.40	11.56	4.12	5.96	2.49	1.75	1.51	0.52	0.65	0.07	0.65	0.07	0.39	0.02
5	300	6.75	17.47	5.15	9.02	3.11	2.65	1.89	0.79	0.81	0.10	0.81	0.10	0.49	0.03
6	360	8.10	24.49	6.18	12.64	3.74	3.72	2.27	1.10	0.97	0.14	0.97	0.14	0.58	0.04
7	420	9.45	32.58	7.20	16.82	4.36	4.95	2.64	1.46	1.13	0.19	1.13	0.19	0.68	0.05
8	480	10.80	41.72	8.23	21.53	4.98	6.33	3.02	1.87	1.29	0.24	1.29	0.24	0.78	0.07
9	540	12.15	51.89	9.26	26.78	5.60	7.88	3.40	2.33	1.45	0.30	1.45	0.30	0.88	0.09
10	600	13.50	63.07	10.29	32.55	6.23	9.57	3.78	2.83	1.62	0.36	1.62	0.36	0.97	0.10
11	660			11.32	38.84	6.85	11.42	4.15	3.38	1.78	0.43	1.78	0.43	1.07	0.12
12	720			12.35	45.63	7.47	13.42	4.53	3.97	1.94	0.50	1.94	0.50	1.17	0.15
13	780			13.38	52.92	8.09	15.56	4.91	4.61	2.10	0.58	2.10	0.58	1.27	0.17
14	840					8.72	17.85	5.29	5.29	2.26	0.67	2.26	0.67	1.36	0.20
15	900					9.34	20.29	5.67	6.01	2.42	0.76	2.42	0.76	1.46	0.22
16	960					9.96	22.86	6.04	6.77	2.59	0.86	2.59	0.86	1.56	0.25
17	1,020					10.58	25.58	6.42	7.57	2.75	0.96	2.75	0.96	1.66	0.28
18	1,080					11.21	28.43	6.80	8.42	2.91	1.06	2.91	1.06	1.75	0.31
19	1,140					11.83	31.43	7.18	9.30	3.07	1.18	3.07	1.18	1.85	0.34
20	1,200					12.45	34.56	7.55	10.23	4.42	2.77	3.23	1.29	1.95	0.38
22	1,320					13.70	41.23	8.31	12.21	4.86	3.31	3.55	1.54	2.14	0.45
24	1,440							9.06	14.34	5.30	3.88	3.88	1.81	2.34	0.53
26	1,560							9.82	16.63	5.74	4.50	4.20	2.10	2.53	0.61
28	1,680							10.58	19.08	6.18	5.17	4.52	2.41	2.73	0.71
30	1,800							11.33	21.68	6.63	5.87	4.85	2.74	2.92	0.80
32	1,920							12.09	24.43	7.07	6.62	5.17	3.09	3.12	0.90
34	2,040							12.84	27.34	7.51	7.40	5.49	3.46	3.31	1.01
36	2,160							13.60	30.39	7.95	8.23	5.82	3.84	3.51	1.12
38	2,280							14.35	33.59	8.39	9.10	6.14	4.25	3.70	1.24
40	2,400							15.11	36.94	8.83	10.00	6.46	4.67	3.90	1.37
45	2,700							17.00	45.94	9.94	12.44	7.27	5.81	4.39	1.70
50	3,000									11.04	15.12	8.08	7.06	4.87	2.06
55	3,300									12.15	18.04	8.89	8.43	5.36	2.46
60	3,600									13.25	21.19	9.70	9.90	5.85	2.89
65	3,900									14.36	24.58	10.50	11.48	6.34	3.36
70	4,200									15.46	28.19	11.31	13.17	6.82	3.85
75	4,500									16.56	32.04	12.12	14.97	7.31	4.37
80	4,800									17.67	36.11	12.93	16.87	7.80	4.93
85	5,100									18.77	40.40	13.73	18.87	8.29	5.51
90	5,400									19.88	44.91	14.54	20.98	8.77	6.13
95	5,700											15.35	23.19	9.26	6.78
100	6,000											16.16	25.50	9.75	7.45
125	7,500											20.20	38.55	12.19	11.26
150	9,000													14.62	15.79
175	10,500													17.06	21.01
200	12,000													19.50	26.90
225	13,500													21.94	33.46
250	15,000													24.37	40.67

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



# Friction Loss

## Polyethylene Oval Hose - 21 psi

### Friction Loss Charts for ID Controlled 21 psi Oval Hose

Losses in psi per 100 feet of hose (psi/100 ft) for hose sizes: 26 mm (1.043") ID through 151 mm (5.955") ID

Part No.		ELD2626		ELD3534 ELD3550		ELD4040		ELD5251		ELD7776		ELD101100		5.955"	
Nom. ID		1.043"		1.365"		1.595"		2.052"		3.043"		3.996"		5.955"	
Min. ID		1.040"		1.360"		1.590"		2.047"		3.038"		3.991"		5.950"	
Min. Wall		0.029"		0.038"		0.044"		0.055"		0.080"		0.106"		0.110"	
Flow		Velocity	Loss	Velocity	Loss	Velocity	Loss	Velocity	Loss	Velocity	Loss	Velocity	Loss	Velocity	Loss
GPM	GPH	FPS	Psi	FPS	Psi	FPS	Psi	FPS	Psi	FPS	Psi	FPS	Psi	FPS	Psi
1	60	0.38	0.04	0.22	0.01	0.16	0.01	0.10	0.00	0.03	0.00	0.03	0.00	0.01	0.00
2	120	0.76	0.14	0.44	0.04	0.32	0.02	0.19	0.01	0.05	0.00	0.05	0.00	0.02	0.00
3	180	1.13	0.30	0.66	0.08	0.48	0.04	0.29	0.01	0.08	0.00	0.08	0.00	0.03	0.00
4	240	1.51	0.52	0.88	0.14	0.65	0.07	0.39	0.02	0.10	0.00	0.10	0.00	0.05	0.00
5	300	1.89	0.79	1.10	0.21	0.81	0.10	0.49	0.03	0.13	0.00	0.13	0.00	0.06	0.00
6	360	2.27	1.10	1.33	0.30	0.97	0.14	0.58	0.04	0.15	0.00	0.15	0.00	0.07	0.00
7	420	2.64	1.46	1.55	0.40	1.13	0.19	0.68	0.05	0.18	0.00	0.18	0.00	0.08	0.00
8	480	3.02	1.87	1.77	0.51	1.29	0.24	0.78	0.07	0.21	0.00	0.21	0.00	0.09	0.00
9	540	3.40	2.33	1.99	0.63	1.45	0.30	0.88	0.09	0.23	0.00	0.23	0.00	0.10	0.00
10	600	3.78	2.83	2.21	0.77	1.62	0.36	0.97	0.10	0.26	0.00	0.26	0.00	0.12	0.00
12	720	4.53	3.97	2.65	1.08	1.94	0.50	1.17	0.15	0.31	0.01	0.31	0.01	0.14	0.00
14	840	5.29	5.29	3.09	1.43	2.26	0.67	1.36	0.20	0.36	0.01	0.36	0.01	0.16	0.00
16	960	6.04	6.77	3.53	1.83	2.59	0.86	1.56	0.25	0.41	0.01	0.41	0.01	0.18	0.00
18	1,080	6.80	8.42	3.98	2.28	2.91	1.06	1.75	0.31	0.46	0.01	0.46	0.01	0.21	0.00
20	1,200	7.55	10.23	4.42	2.77	3.23	1.29	1.95	0.38	0.51	0.01	0.51	0.01	0.23	0.00
25	1,500	9.44	15.47	5.52	4.19	4.04	1.96	2.44	0.57	0.64	0.02	0.64	0.02	0.29	0.00
30	1,800	11.33	21.68	6.63	5.87	4.85	2.74	2.92	0.80	0.77	0.03	0.77	0.03	0.35	0.00
35	2,100	13.22	28.84	7.73	7.81	5.66	3.65	3.41	1.07	0.90	0.04	0.90	0.04	0.40	0.01
40	2,400	15.11	36.94	8.83	10.00	6.46	4.67	3.90	1.37	1.03	0.05	1.03	0.05	0.46	0.01
45	2,700	17.00	45.94	9.94	12.44	7.27	5.81	4.39	1.70	1.19	0.25	1.19	0.25	0.52	0.01
50	3,000			11.04	15.12	8.08	7.06	4.87	2.06	2.21	0.30	2.21	0.30	0.58	0.01
55	3,300			12.15	18.04	8.89	8.43	5.36	2.46	2.43	0.36	2.43	0.36	0.63	0.01
60	3,600			13.25	21.19	9.70	9.90	5.85	2.89	2.66	0.42	2.66	0.42	0.69	0.02
65	3,900			14.36	24.58	10.50	11.48	6.34	3.36	2.88	0.49	2.88	0.49	0.75	0.02
70	4,200			15.46	28.19	11.31	13.17	6.82	3.85	3.10	0.56	3.10	0.56	0.81	0.02
75	4,500					12.12	14.97	7.31	4.37	3.32	0.64	3.32	0.64	0.87	0.02
80	4,800					12.93	16.87	7.80	4.93	3.54	0.72	3.54	0.72	0.92	0.03
85	5,100					13.73	18.87	8.29	5.51	3.76	0.81	3.76	0.81	0.98	0.03
90	5,400					14.54	20.98	8.77	6.13	3.98	0.90	3.98	0.90	1.04	0.03
100	6,000							9.75	7.45	4.43	1.09	4.43	1.09	1.15	0.04
110	6,600							10.72	8.89	4.87	1.30	4.87	1.30	1.27	0.05
120	7,200							11.70	10.44	5.31	1.53	5.31	1.53	1.38	0.06
130	7,800							12.67	12.11	5.75	1.77	5.75	1.77	1.50	0.07
140	8,400							13.65	13.90	6.20	2.03	6.20	2.03	1.62	0.08
150	9,000							14.62	15.79	6.64	2.31	6.64	2.31	1.73	0.09
160	9,600							15.60	17.79	7.08	2.60	7.08	2.60	1.85	0.10
170	10,200							16.57	19.91	7.52	2.91	7.52	2.91	1.96	0.11
180	10,800							17.55	22.13	7.97	3.24	7.97	3.24	2.08	0.12
190	11,400									8.41	3.58	8.41	3.58	2.19	0.14
200	12,000									8.85	3.93	8.85	3.93	2.31	0.15
250	15,000									11.07	5.95	11.07	5.95	2.88	0.23
300	18,000									13.28	8.33	13.28	8.33	3.46	0.32
350	21,000									15.49	11.09	15.49	11.09	4.04	0.42
400	24,000									17.70	14.20	17.70	14.20	4.62	0.54
450	27,000									19.92	17.66	19.92	17.66	5.19	0.67
500	30,000									22.13	21.46	22.13	21.46	5.77	0.81
600	36,000											15.39	7.97	6.92	1.14
700	42,000											17.95	10.60	8.08	1.52
800	48,000											20.52	13.57	9.23	1.94
900	54,000											23.08	16.88	10.38	2.41
1,000	60,000											25.65	20.52	11.54	2.93
1,200	72,000													13.85	4.11
1,300	78,000													15.00	4.77
1,400	84,000													16.15	5.47
1,500	90,000													17.31	6.22
1,600	96,000													18.46	7.01
1,700	102,000													19.62	7.84
1,800	108,000													20.77	8.71
1,900	114,000													21.92	9.63
2,000	120,000													23.08	10.59
2,100	126,000													24.23	11.59
2,200	132,000													25.39	12.64
2,300	138,000													26.54	13.72
2,400	144,000													27.69	14.85
2,500	150,000													28.85	16.01

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



Count on it.

# Friction Loss

## Polyethylene OD Controlled Hose

### OD Controlled Round Hose

Losses in psi per 100 feet of hose (psi/100 ft). for hose sizes: 16 mm (.596") ID through 22 mm (.870") ID

Part No.		EHO1650		EHO2055		EHO2060			
Nom. ID		0.600"		0.830"		0.820"			
Min. ID		0.596"		0.821"		0.811"			
Nom. Wall		0.050"		0.055"		0.060"			
Flow		Velocity		Loss		Velocity		Loss	
GPM	GPH	FPS	Psi	FPS	Psi	FPS	Psi	FPS	Psi
0.5	30	0.58	0.17	0.30	0.03	0.31	0.04		
1.0	60	1.15	0.60	0.61	0.13	0.62	0.13		
1.5	90	1.73	1.27	0.91	0.27	0.93	0.28		
2.0	120	2.30	2.16	1.21	0.46	1.24	0.48		
2.5	150	2.88	3.27	1.52	0.69	1.55	0.73		
3.0	180	3.45	4.59	1.82	0.96	1.86	1.02		
3.5	210	4.03	6.10	2.12	1.28	2.17	1.36		
4.0	240	4.60	7.82	2.42	1.64	2.48	1.74		
4.5	270	5.18	9.72	2.73	2.04	2.79	2.17		
5.0	300	5.75	11.81	3.03	2.48	3.11	2.64		
6.0	360	6.90	16.56	3.64	3.48	3.73	3.69		
7.0	420	8.05	22.03	4.24	4.63	4.35	4.92		
8.0	480	9.20	28.21	4.85	5.93	4.97	6.29		
9.0	540	10.35	35.09	5.45	7.38	5.59	7.83		
10.0	600	11.50	42.65	6.06	8.96	6.21	9.52		
11.0	660	12.65	50.89	6.67	10.70	6.83	11.35		
12.0	720	13.80	59.78	7.27	12.57	7.45	13.34		
13.0	780			7.88	14.57	8.07	15.47		
14.0	840			8.48	16.72	8.70	17.75		
15.0	900			9.09	19.00	9.32	20.16		
16.0	960			9.70	21.41	9.94	22.72		
17.0	1,020			10.30	23.95	10.56	25.42		
18.0	1,080			10.91	26.63	11.18	28.26		
19.0	1,140			11.51	29.43	11.80	31.24		
20.0	1,200			12.12	32.36	12.42	34.35		
22.0	1,320			13.33	38.61	13.66	40.98		
24.0	1,440			14.55	45.36	14.91	48.15		
26.0	1,560			15.76	52.61	16.15	55.84		
28.0	1,680			16.97	60.35				
30.0	1,800								
32.0	1,920								

HDO2255	
0.870"	
0.870"	
0.055"	
Velocity	Loss
FPS	Psi
0.27	0.03
0.54	0.10
0.81	0.20
1.08	0.34
1.35	0.52
1.62	0.73
1.89	0.97
2.16	1.24
2.43	1.54
2.70	1.87
3.24	2.62
3.78	3.49
4.32	4.47
4.86	5.56
5.40	6.76
5.94	8.06
6.48	9.47
7.02	10.99
7.56	12.61
8.10	14.32
8.64	16.14
9.17	18.06
9.71	20.08
10.25	22.19
10.79	24.40
11.87	29.11
12.95	34.20
14.03	39.67
15.11	45.51
16.19	51.71
17.27	58.27

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



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.