

PRESSURE DROP (THEORETICAL) CALCULATED FOR 50-FOOT SECTIONS

PSI

GPM	Hose Diameter					
	3/16"	1/4"	3/8"	1/2"	3/4"	1"
2	332	82	11	3		
4	1098	295	41	10	1	
6	2337	625	87	22	3	
8	4320	1064	148	36	5	1
10	6528	1608	223	55	8	2
12	9147	2253	313	77	11	3
14	12165	2997	416	103	14	4
16		3837	533	132	18	5
18		4771	662	164	23	6
20		5798	805	198	28	7
25		8760	1216	299	42	10
30		12275	1704	419	58	14
35			2266	559	77	19
40			2901	715	99	24
45			3607	889	123	31
50			4384	1080	150	37
55			5229	1288	178	44
60			6142	1514	210	52
65			7123	1755	244	61
70			8170	2013	279	69
75			9282	2287	318	77
80			10459	2576	359	88
85				2882	399	97
90				3204	445	110
95				3542	492	120
100				3993	541	133
110				4644	646	158
120				5419	758	187
130				6325	879	216
140				7256	1009	248
150				8243	1144	281

BAR

LPM	Hose Diameter					
	4.7 mm	6.4 mm	9.5 mm	13 mm	19 mm	25.4 mm
7.6	22.91	5.66	0.76	0.21		
15.1	75.76	20.36	2.83	0.69	0.07	
22.7	161.25	43.13	6.00	1.52	0.21	
30.3	298.08	73.42	10.21	2.48	0.35	0.07
37.9	450.43	110.95	15.39	3.80	0.55	0.14
45.4	631.14	155.46	21.60	5.31	0.76	0.21
53.0	839.39	206.79	28.70	7.11	0.97	0.28
60.6		264.75	36.78	9.11	1.24	0.35
68.1		329.20	45.68	11.32	1.59	0.41
75.7		400.06	55.55	13.66	1.93	0.48
94.6		604.44	83.90	20.63	2.90	0.69
113.6		846.98	117.58	28.91	4.00	0.97
132.5			156.35	38.57	5.31	1.31
151.4			200.17	49.34	6.83	1.66
170.3			248.88	61.34	8.49	2.14
189.3			302.50	74.52	10.35	2.55
208.2			360.80	88.87	12.28	3.04
227.1			423.80	104.47	14.49	3.59
246.0			491.49	121.10	16.84	4.21
265.0			563.73	138.90	19.25	4.76
283.9			640.46	157.80	21.94	5.31
302.8			721.67	177.74	24.77	6.07
321.7				198.86	27.53	6.69
340.7				221.08	30.71	7.59
359.6				244.40	33.95	8.28
378.5				275.52	37.33	9.18
416.4				320.44	44.57	10.90
454.2				373.91	52.30	12.90
492.1				436.43	60.65	14.90
529.9				500.66	69.62	17.11
567.8				568.77	78.94	19.39