

Tech Bulletin

Frictional Loss Of Air Pressure In Hose Cubic Feet Free Air* Per Minute (SCFM) – 100 Foot Length Of Hose

Hose I.D. (In.)	Gauge Pressure @ Line (psi)	0.25	0.50	0.75	1.00	2.0	3.00	4.00	5.00	10.00
1/4	10.00	0.12	0.48	1.08						
	20.00	0.09	0.34	0.77	1.37					
	30.00	0.07	0.27	0.60	1.06					
	40.00	0.05	0.22	0.49	0.87	3.48				
	50.00	0.05	0.18	0.41	0.74	2.94				
	60.00	0.04	0.16	0.36	0.64	2.54				
	70.00	0.04	0.14	0.32	0.56	2.24	5.05			
	80.00	0.03	0.13	0.28	0.50	2.01	4.52	8.03		
	90.00	0.03	0.11	0.26	0.45	1.82	4.09	7.26		
	100.00	0.03	0.10	0.23	0.41	1.66	3.73	6.63	10.36	
	110.00	0.02	0.10	0.21	0.38	1.52	3.43	6.10	9.53	
	125.00	0.02	0.08	0.19	0.34	1.36	3.06	5.44	8.51	
	150.00	0.02	0.07	0.16	0.29	1.15	2.60	4.62	7.21	
200.00	0.01	0.06	0.13	0.22	0.89	1.99	3.54	5.53	22.14	
5/16	10.00	0.04	0.15	0.33	0.60					
	20.00	0.03	0.11	0.24	0.42	1.70				
	30.00	0.02	0.08	0.18	0.33	1.32	2.96			
	40.00	0.02	0.07	0.15	0.27	1.08	2.42			
	50.00	0.01	0.06	0.13	0.23	0.91	2.05	3.64		
	60.00		0.05	0.11	0.20	0.79	1.77	3.15	4.92	
	70.00		0.04	0.10	0.17	0.69	1.56	2.78	4.34	
	80.00		0.04	0.09	0.16	0.62	1.40	2.48	3.88	
	90.00		0.04	0.08	0.14	0.56	1.26	2.25	3.51	
	100.00		0.03	0.07	0.13	0.51	1.15	2.05	3.21	
	110.00		0.03	0.07	0.12	0.47	1.06	1.89	2.95	11.79
	125.00		0.03	0.06	0.11	0.42	0.95	1.68	2.63	10.53
	150.00		0.02	0.05	0.09	0.36	0.80	1.43	2.23	8.93
200.00		0.02	0.04	0.07	0.27	0.62	1.10	1.71	6.85	
3/8	10.00	0.01	0.06	0.13	0.23	0.91				
	20.00		0.04	0.09	0.16	0.65	1.46			
	30.00		0.03	0.07	0.13	0.50	1.14	2.02	3.15	
	40.00		0.03	0.06	0.10	0.41	0.93	1.65	2.58	
	50.00		0.02	0.05	0.09	0.35	0.78	1.39	2.18	
	60.00		0.02	0.04	0.08	0.30	0.68	1.21	1.89	
	70.00		0.02	0.04	0.07	0.27	0.60	1.07	1.66	6.66
	80.00		0.02	0.03	0.06	0.24	0.54	0.95	1.49	5.95
	90.00		0.01	0.03	0.05	0.22	0.48	0.86	1.35	5.39
	100.00			0.03	0.05	0.20	0.44	0.79	1.23	4.92
	110.00			0.03	0.05	0.18	0.41	0.72	1.13	4.52
	125.00			0.02	0.04	0.16	0.36	0.65	1.10	4.04
	150.00			0.02	0.03	0.14	0.31	0.55	0.86	3.42
200.00			0.01	0.03	0.11	0.24	0.42	0.66	2.63	

For longer or shorter lengths, the pressure drop is directly related to the given values.
 These pressure drop figures are accurate for hose with smooth bore tube and full flow couplings.
 Greater pressure drop will occur when hose has a rough bore tube or restrictions at the fittings.
 * Free Air - 14.7 psi at 80F.

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