

Friction losses through pipe

Loss of Air Pressure Due to Friction (in PSI per 1000 ft. of pipe)

Delivery in Cu. Ft. of Compressed Air per Min.	Equiv. Delivery in Cu. Ft. of Free Air per Min.	1 / 2	3 / 4	1	1 ¼	1 ½	2	2 ½	3	3 ½	4	4 ½	5	6	8	10	12
5.12	40		16.00	4.45	1.03	0.46											
8.96	70		49.30	13.70	3.16	1.40	0.37										
12.81	100			27.90	6.47	2.86	0.77	0.30									
15.82	125			48.60	10.20	4.49	1.19	0.46									
19.23	150			62.80	14.60	6.43	1.72	0.66	0.21								
22.40	175				19.80	8.72	2.36	0.91	28.00								
25.62	200				25.90	11.40	3.06	1.19	0.37	0.17							
31.64	250				40.40	17.90	4.78	1.85	0.58	0.27							
38.44	300				58.20	25.80	6.85	2.67	0.84	0.39	0.20						
44.80	350					35.10	9.36	3.64	1.14	0.53	0.27						
51.24	400					45.80	12.10	4.75	1.50	0.69	0.35	0.19					
57.65	450					58.00	15.40	5.98	1.89	0.88	0.46	0.25					
63.28	500					71.60	19.20	7.42	2.34	1.09	0.55	0.30					
76.88	600						27.60	10.70	3.36	1.56	0.79	0.44					
89.60	700						37.70	14.50	4.55	2.13	1.09	0.59					
102.50	800						49.00	19.00	5.89	2.77	1.42	0.78					
115.30	900						62.30	24.10	7.60	3.51	1.80	0.99					
126.50	1000						76.90	29.80	9.30	4.35	2.21	1.22					
192.20	1500							67.00	21.00	9.80	4.90	2.73	1.51	0.57			
256.20	2000								37.40	17.30	8.80	4.90	2.72	0.99	0.24		
316.40	2500								58.40	27.20	13.80	8.30	4.20	1.57	0.37		
384.60	3000								84.10	39.10	20.00	10.90	6.00	2.26	0.53		
447.80	3500									58.20	27.20	14.70	8.20	3.04	0.70	0.22	
512.40	4000									69.40	35.50	19.40	10.70	4.01	0.94	0.28	
576.50	4500										45.00	24.50	13.50	5.10	1.19	0.36	
632.40	5000										55.60	30.20	16.80	6.30	1.47	0.44	0.17