Flow of Air Through Schedule 40 Steel Pipes (continued)

FREE AIR Q'M	COMPRESSED AIR	PRESSURE DROP OF AIR IN POUNDS PER SQUARE INCH PER 100 FEET OF SCHEDULE 40 PIPE FOR AIR AT 100 POUNDS PER SQUARE INCH GAUGE PRESSURE AND 60°F TEMPERATURE								
Cubic Feet per Minute at 60°F and 14.7 psia	Cubic Feet per Minute at 60°F and 100 psig	2-1/2"	3"	3-1/2"	4"	5"	6"	8"	10"	2"
1,400	179.4	4.65	1.52	0.718	0.377	0.119	0.047			11.8
1,500	192.2	5.31	1.74	0.824	0.431	0.136	0.054			13.5
1,600	205.1	6.04	1.97	0.932	0.490	0.154	0.061			15.3
1,800	230.7	7.65	2.50	1.18	0.616	0.193	0.075			19.3
2,000	256.3	9.44	3.06	1.45	0.757	0.237	0.094	0.023		23.9
2,500	320.4	14.7	4.76	2.25	1.17	0.366	0.143	0.035		37.3
3,000	384.5	21.1	6.82	3.20	1.67	0.524	0.204	0.051	0.016	
3,500	448.6	28.8	9.23	4.33	2.26	0.709	0.276	0.068	0.022	
4,000	512.6	37.6	12.1	5.66	2.94	0.919	0.358	0.088	0.028	**12"**
4,500	576.7	47.6	15.3	7.16	3.69	1.16	0.450	0.111	0.035	
5,000	640.8	- - -	18.8	8.85	4.56	1.42	0.552	0.136	0.043	0.018
6,000	769.0	- - -	27.1	12.7	6.57	2.03	0.794	0.195	0.061	0.025
7,000	897.1	- - -	36.9	17.2	8.94	2.76	1.07	0.262	0.082	0.034
8,000	1025	- - -	- - -	22.5	11.7	3.59	1.39	0.339	0.107	0.044
9,000	1153	- - -	- - -	28.5	14.9	4.54	1.76	0.427	0.134	0.055
10,000	1282	- - -	- - -	35.2	18.4	5.60	2.16	0.526	0.164	0.067
11,000	1410	- - -	- - -	- - -	22.2	6.78	2.62	0.633	0.197	0.081
12,000	1538	- - -	- - -	- - -	26.4	8.07	3.09	0.753	0.234	0.096
13,000	1666	- - -	- - -	- - -	31.0	9.47	3.63	0.884	0.273	0.112
14,000	1794	- - -	- - -	- - -	36.0	11.0	4.21	1.02	0.316	0.129
15,000	1922	- - -	- - -	- - -	- - -	12.6	4.84	1.17	0.364	0.148
16,000	2051	- - -	- - -	- - -	- - -	14.3	5.50	1.33	0.411	0.167
18,000	2307	- - -	- - -	- - -	- - -	18.2	6.96	1.68	0.520	0.213
20,000	2563	- - -	- - -	- - -	- - -	22.4	8.60	2.01	0.642	0.260
22,000	2820	- - -	- - -	- - -	- - -	27.1	10.4	2.50	0.771	0.314
24,000	3076	- - -	- - -	- - -	- - -	32.3	12.4	2.97	0.918	0.371
26,000	3332	- - -	- - -	- - -	- - -	37.9	14.5	3.49	1.12	0.435
28,000	3588	- - -	- - -	- - -	- - -	- - -	16.9	4.04	1.25	0.505
30,000	3845	- - -	- - -	- - -	- - -	- - -	19.3	4.64	1.42	0.520

Extracted from Technical Paper No. 410, Flow of Fluids, with permission of Crane Co.