

Flow of Air Through Schedule 40 Steel Pipes

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									
		1/8"	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	
Cubic Feet per Minute at 60°F and 14.7 psia	Cubic Feet per Minute at 60°F and 100 psig										
1	0.128	0.361	0.083	0.018							
2	0.256	1.31	0.285	0.064	0.020						
3	0.384	3.06	0.605	0.133	0.042						
4	0.513	4.83	1.04	0.226	0.071						
5	0.641	7.45	1.58	0.343	0.106	0.027					
6	0.769	10.6	2.23	0.408	0.148	0.037					
8	1.025	18.6	3.89	0.848	0.255	0.062	0.019				
10	1.282	28.7	5.96	1.26	0.356	0.094	0.029				
15	1.922	---	13.0	2.73	0.834	0.201	0.062				
20	2.563	---	22.8	4.76	1.43	0.345	0.102	0.026			
25	3.204	---	35.6	7.34	2.21	0.526	0.156	0.039	0.019		
30	3.845	---	---	10.5	3.15	0.748	0.219	0.055	0.026		
35	4.486	---	---	14.2	4.24	1.00	0.293	0.073	0.035		
40	5.126	---	---	18.4	5.49	1.30	0.379	0.095	0.044		
45	5.767	---	---	23.1	6.90	1.62	0.474	0.116	0.055		
50	6.408			28.5	8.49	1.99	0.578	0.149	0.067	0.019	
60	7.690	2-1/2"		40.7	12.2	2.85	0.819	0.200	0.094	0.027	
70	8.971			---	16.5	3.83	1.10	0.270	0.126	0.036	
80	10.25	0.019		---	21.4	4.96	1.43	0.350	0.162	0.046	
90	11.53	0.023		---	27.0	6.25	1.80	0.437	0.203	0.058	
100	12.82	0.029	3"		33.2	7.69	2.21	0.534	0.247	0.070	
125	16.02	0.044			---	11.9	3.39	0.825	0.380	0.107	
150	19.22	0.062	0.021		---	17.0	4.87	1.17	0.537	0.151	
175	22.43	0.083	0.028	3-1/2"		---	23.1	6.60	1.58	0.727	
200	25.63	0.107	0.036		---	30.0	8.54	2.05	0.937	0.264	
225	28.84	0.134	0.045	0.022		37.9	10.8	2.59	1.19	0.331	
250	32.04	0.164	0.055	0.027		---	13.3	3.18	1.45	0.404	
275	35.24	0.191	0.066	0.032		---	16.0	3.83	1.75	0.484	
300	38.45	0.232	0.078	0.037		---	19.0	4.56	2.07	0.573	
325	41.65	0.270	0.090	0.043	4"		---	22.3	5.32	0.673	
350	44.87	0.313	0.104	0.050		---	25.8	6.17	2.80	0.776	
375	48.06	0.356	0.119	0.057	0.030	---	29.6	7.05	3.20	0.887	
400	51.26	0.402	0.134	0.064	0.034	---	33.6	8.02	3.64	1.00	
425	54.47	0.452	0.151	0.072	0.038	---	37.9	9.01	4.09	1.13	
450	57.67	0.507	0.168	0.081	0.042	---	---	10.2	4.59	1.26	
475	60.88	0.562	0.187	0.089	0.047		---	11.3	5.09	1.40	
500	64.08	0.623	0.206	0.099	0.052		---	12.5	5.61	1.55	
550	70.49	0.749	0.248	0.118	0.062		---	15.1	6.79	1.87	
600	76.90	0.887	0.293	0.139	0.073	5"		---	18.0	8.04	
650	83.30	1.04	0.342	0.163	0.086		---	21.1	9.43	2.60	
700	89.71	1.19	0.395	0.188	0.099	0.032		24.3	10.9	3.00	
750	96.12	1.36	0.451	0.214	0.113	0.036		27.9	12.6	3.44	
800	102.5	1.55	0.513	0.244	0.127	0.041		31.8	14.2	3.90	
850	108.9	1.74	0.576	0.274	0.144	0.046	6"		35.9	16.0	
900	115.3	1.95	0.642	0.305	0.160	0.051		40.2	18.0	4.91	
950	121.8	2.18	0.715	0.340	0.178	0.057	0.023	---	20.0	5.47	
1,000	128.2	2.40	0.788	0.375	0.197	0.063	0.025	---	22.1	6.06	
1,100	141.0	2.89	0.948	0.451	0.236	0.075	0.030	---	26.7	7.29	
1,200	153.8	3.44	1.13	0.533	0.279	0.089	0.035	---	31.8	8.63	
1,300	166.6	4.01	1.32	0.626	0.327	0.103	0.041	---	37.3	10.1	