

Pipe Pressure Drop

Nominal Pipe Size	CFM Free Air	Line Pressure - PSIG														
		10	15	20	30	40	50	75	100	125	150	200	250	300	350	
1/2" SCHEDULE 40	10		1.45	1.24	.96	.79	.67	.48	.38	.31	.26	.20	.16	.14	.12	
	15			2.68	2.08	1.70	1.43	1.04	.81	.67	.57	.43	.35	.30	.25	
	20				3.60	2.94	2.48	1.80	1.41	1.15	.98	.75	.61	.51	.44	
	30						5.40	3.90	3.05	2.50	2.12	1.63	1.32	1.11	.96	
	40							6.80	5.31	4.37	3.70	2.84	2.30	1.94	1.67	
	50								8.20	6.75	5.70	4.37	3.55	2.99	2.58	
	60									11.7	9.61	8.16	6.25	5.08	4.27	3.68
	80											14.4	11.0	8.95	7.52	6.50
	100												17.1	13.9	11.7	10.1
3/4" SCHEDULE 40	10	.42	.35	.30	.23	.19	.16	.12								
	20	1.57	1.31	1.12	.87	.71	.60	.43	.34	.28	.24	.18	.15	.12	.11	
	35			3.22	2.50	2.04	1.72	1.25	.98	.80	.68	.52	.42	.35	.31	
	50				4.95	4.05	3.42	2.47	1.93	1.59	1.35	1.03	.84	.71	.61	
	65						5.71	4.12	3.23	2.65	2.25	1.72	1.40	1.18	1.01	
	80							6.19	4.74	3.98	3.37	2.58	2.10	1.76	1.52	
	100								9.60	7.53	6.40	5.25	4.02	3.26	2.74	2.37
	125									11.7	9.70	8.12	6.22	5.05	4.25	3.67
	150										12.6	11.5	8.85	7.16	6.03	5.20
	200												15.6	12.6	10.6	9.1
	250													19.7	16.6	14.3
1" SCHEDULE 40	20	.45	.38	.32	.25	.20	.17	.13	.10							
	35	1.29	1.07	.92	.71	.58	.49	.35	.28	.23	.19	.15	.12	.10		
	50			1.81	1.40	1.15	.97	.70	.55	.45	.38	.29	.24	.20	.17	
	75				3.10	2.53	2.14	1.54	1.21	.99	.84	.65	.52	.44	.38	
	100					4.39	3.70	2.68	2.09	1.72	1.46	1.12	.91	.76	.66	
	125						5.70	4.10	3.22	2.64	2.24	1.72	1.39	1.17	1.01	
	150							5.88	4.60	3.78	3.20	2.46	1.99	1.68	1.45	
	200								8.05	6.61	5.61	4.30	3.49	2.94	2.53	
	250									10.3	8.87	6.72	5.45	4.59	3.96	
	300										12.6	9.66	7.85	6.60	5.70	
	400											17.2	14.0	11.7	10.1	
	500												21.8	18.3	15.8	
Nominal Pipe Size	CFM Free Air	Line Pressure - PSIG														
		10	15	20	30	40	50	75	100	125	150	200	250	300	350	
1-1/2" SCHEDULE 40	50	.31	.25	.22	.17	.14	.12									
	75	.65	.54	.46	.36	.29	.25	.18	.14	.12	.10					
	100	1.13	.94	.80	.62	.51	.43	.31	.24	.20	.17	.13	.11			
	125		1.44	1.24	.96	.78	.66	.48	.37	.31	.26	.20	.16	.14	.12	

	150		2.04	1.75	1.35	1.11	.94	.68	.53	.43	.37	.28	.23	.19	.17
	200			3.04	2.36	1.93	1.63	1.18	.92	.76	.64	.49	.40	.34	.29
	250				3.68	3.01	2.54	1.83	1.44	1.18	1.00	.77	.62	.52	.45
	300					4.29	3.62	2.62	2.05	1.74	1.43	1.09	.89	.75	.64
	400						6.35	4.58	3.59	2.94	2.50	1.92	1.55	1.31	1.13
	500							7.12	5.59	4.59	3.89	2.98	2.42	2.03	1.76
	600								8.00	6.55	5.55	4.26	3.46	2.91	2.51
	700								10.8	8.89	7.55	5.78	4.70	3.95	3.40
	800									11.6	9.80	7.50	6.10	5.12	4.42
	1000										15.2	11.7	9.45	7.95	6.86
	1200											16.4	13.3	11.2	9.61
	1400											22.9	18.6	15.6	13.5
2" SCHEDULE 40	75	.19	.16	.13	.10										
	100	.28	.24	.20	.16	.13	.11								
	150	.69	.57	.49	.38	.31	.26	.19	.15	.12	.10				
	200	1.20	1.00	.85	.66	.54	.46	.33	.26	.21	.18	.14	.11		
	250		1.53	1.31	1.02	.83	.70	.51	.40	.33	.28	.21	.17	.15	.13
	300			1.89	1.47	1.20	1.01	.73	.57	.47	.40	.31	.26	.21	.18
	400				2.50	2.04	1.73	1.25	.98	.80	.68	.52	.42	.36	.31
	500				3.87	3.16	2.67	1.93	1.51	1.24	1.05	.81	.65	.55	.48
	600					4.50	3.81	2.75	2.15	1.77	1.50	1.05	.93	.79	.68
	800							4.87	3.82	3.13	2.66	2.04	1.65	1.39	1.20
	1000							7.55	5.90	4.85	4.12	3.16	2.56	2.16	1.86
	1250								9.12	7.49	6.35	4.87	3.96	3.32	2.87
	1500									10.8	9.17	7.02	5.70	4.80	4.14
	1750										12.5	9.54	7.74	6.50	5.62
	2000										16.3	12.5	10.1	8.50	7.35
2250											15.8	12.8	10.8	9.3	
2500											19.4	15.8	13.3	11.4	
2-1/2" SCHEDULE 40	150	.29	.24	.22	.16	.13	.11								
	200	.50	.42	.36	.28	.23	.19	.14	.11						
	250	.80	.64	.55	.43	.35	.29	.21	.17	.14	.12				
	300	1.08	.90	.77	.60	.49	.41	.30	.23	.19	.16	.13	.10		
	400		1.57	1.34	1.04	.85	.72	.52	.41	.33	.28	.22	.18	.15	.13
	500			2.07	1.60	1.31	1.11	.80	.63	.51	.44	.33	.27	.23	.20
	600			2.95	2.28	1.87	1.58	1.14	.89	.73	.62	.48	.39	.33	.28
	800				4.00	3.27	2.76	2.00	1.56	1.28	1.09	.83	.68	.57	.49
	1000					5.17	4.30	3.10	2.43	1.99	1.69	1.30	1.05	.88	.76
	1250						6.78	4.89	3.83	3.14	2.66	2.04	1.66	1.39	1.20
	1500							6.85	5.36	4.40	3.73	2.87	2.32	1.95	1.68

	2000								9.40	7.82	6.55	5.02	4.07	3.42	2.96
	2500									12.1	10.3	7.86	6.39	5.36	4.62
	3000										14.7	11.3	9.13	7.70	6.62
	3500											15.4	12.5	10.5	9.02
	4000											20.0	16.3	13.7	11.8

Nominal Pipe Size	CFM Free Air	Line Pressure - PSIG													
		10	15	20	30	40	50	75	100	125	150	200	250	300	350
3" SCHEDULE 40	300	.36	.30	.26	.20	.16	.13	.10							
	500	.94	.78	.67	.52	.43	.36	.26	.20	.17	.14	.11			
	750		1.69	1.44	1.12	.92	.78	.56	.44	.36	.30	.23	.19	.16	.14
	1000			2.50	1.94	1.59	1.34	.97	.76	.62	.53	.41	.33	.28	.24
	1500				4.30	3.52	2.98	2.15	1.68	1.38	1.17	.90	.73	.61	.53
	2000						5.29	3.81	2.99	2.47	2.08	1.60	1.30	1.09	.94
	2500							5.96	4.67	3.83	3.26	2.50	2.02	1.70	1.47
	3000							8.58	6.71	5.51	4.68	3.58	2.91	2.45	2.11
	3500								9.15	7.50	6.37	4.89	3.96	3.34	2.88
	4000								11.9	9.80	8.31	6.36	5.16	4.35	3.76
	4500									12.4	10.5	8.06	6.55	5.50	4.75
	5000									15.3	13.0	9.95	8.07	6.80	5.86
	6000											14.3	11.6	9.78	8.45
	7000											19.5	15.9	13.4	11.5

Nominal Pipe Size	CFM Free Air	Line Pressure - PSIG														
		10	15	20	30	40	50	75	100	125	150	200	250	300	350	
4" SCHEDULE 40	500	.24	.20	.17	.13	.11										
	750	.52	.43	.37	.29	.23	.20	.14	.11							
	1000	.90	.75	.64	.50	.41	.34	.25	.19	.16	.14	.10				
	1500		1.64	1.41	1.09	.89	.75	.54	.43	.35	.30	.23	.18	.16	.13	
	2000			2.46	1.91	1.56	1.32	.95	.75	.61	.52	.40	.32	.27	.23	
	2500				2.96	2.42	2.04	1.47	1.16	.95	.80	.62	.50	.42	.36	
	3000				4.20	3.44	2.91	2.10	1.64	1.35	1.14	.88	.71	.60	.52	
	4000						5.15	3.11	2.90	2.38	2.02	1.55	1.26	1.06	.91	
	5000								5.75	4.50	3.70	3.14	2.40	1.95	1.64	1.42
	6000								8.22	6.45	5.30	4.50	3.44	2.79	2.35	2.03
	7000									8.77	7.20	6.10	4.68	3.80	3.20	2.76
	8000									11.5	9.40	8.00	6.11	4.95	4.17	3.60
	10,000										14.7	12.5	9.55	7.75	6.52	5.62
	12,000												13.8	11.2	9.40	8.10
14,000												18.8	15.2	12.8	11.0	

Nominal Pipe Size	CFM Free Air	Line Pressure - PSIG														
		10	15	20	30	40	50	75	100	125	150	200	250	300	350	
5" SCHEDULE 40	1000	.29	.24	.20	.18	.16	.14	.13	.11							
	1500	.62	.52	.44	.39	.34	.31	.28	.24	.21	.16	.13	.11			
	2000	1.09	.91	.78	.68	.60	.54	.49	.42	.36	.28	.24	.19	.16	.13	
	2500		1.39	1.19	1.04	.92	.83	.75	.64	.55	.44	.36	.30	.25	.19	
	3000		1.98	1.69	1.48	1.31	1.18	1.07	.91	.79	.62	.51	.42	.36	.27	
	4000			2.99	2.61	2.32	2.08	1.89	1.60	1.39	1.09	.90	.74	.63	.48	
	5000				4.02	3.68	3.22	2.92	2.47	2.14	1.69	1.40	1.15	.97	.75	
	6000						4.60	4.18	3.64	3.07	2.42	2.00	1.64	1.39	1.07	
	8000								6.24	5.40	4.26	3.53	2.90	2.46	1.88	
	10,000									8.40	6.62	5.47	4.50	3.82	2.92	
	12,000										9.50	7.88	6.47	5.50	4.20	
	14,000											10.7	8.80	7.46	5.72	
	16,000												11.5	9.75	7.47	
	18,000												14.5	12.4	9.45	
20,000													15.2	11.7		
Nominal Pipe Size	CFM Free Air	Line Pressure - PSIG														
		10	15	20	30	40	50	75	100	125	150	200	250	300	350	
6" SCHEDULE 40	1500	.25	.20	.18	.15	.14	.12	.11								
	2000	.43	.36	.31	.27	.24	.21	.19	.16	.14	.11					
	2500	.66	.55	.47	.41	.36	.33	.30	.25	.22	.17	.14	.12	.10		
	3000	.94	.78	.67	.58	.52	.47	.42	.36	.31	.24	.20	.17	.14	.11	
	4000		1.36	1.16	1.01	.90	.81	.74	.62	.54	.43	.35	.29	.25	.19	
	5000			1.80	1.58	1.40	1.26	1.14	.97	.84	.66	.55	.45	.38	.29	
	6000			2.58	2.26	2.00	1.80	1.64	1.38	1.20	.95	.78	.64	.55	.42	
	8000				3.98	3.54	3.18	2.89	2.44	2.12	1.67	1.38	1.13	.96	.74	
	10,000						4.90	4.45	3.77	3.26	2.57	2.13	1.75	1.48	1.14	
	12,500									5.85	5.06	4.00	3.30	2.71	2.30	1.76
	15,000										7.30	5.75	4.75	3.90	3.32	2.54
	17,500											7.82	6.47	5.30	4.50	3.46
	20,000												8.45	6.95	5.88	4.51
	25,000													10.8	9.20	7.05
30,000														13.3	10.2	