

Support-Technical Library-Pipe Pressure Drop

NPS (in)	Air Flow ¹⁾ (SCFM)	Pressure Loss per 100 ft pipe (psi)			
		Line Pressure (psig)			
		50	75	100	125
1/2	10	0.7	0.5	0.4	0.3
	20	2.7	2.0	1.6	1.3
	30	5.9	4.3	3.4	2.8
	40		7.5	5.8	4.8
	50			9.0	7.4
	60			12.9	10.6
3/4	10	0.2	0.15		
	20	0.9	0.5	0.4	0.3
	50	3.8	2.7	2.1	1.8
	80		6.8	5.2	4.4
	100		10.6	8.3	7.0
	125			12.9	10.7
	150				13.9
1	20	0.2	0.1	0.1	
	50	1.1	0.8	0.6	0.5

	75	2.6	1.7	1.3	1.1
	100	4.1	3.0	2.3	1.9
	125	6.3	4.5	3.5	2.9
	150		6.5	5.1	4.2
	200			8.9	7.3
	250				11.3
1 1/2	50	0.1			
	75	0.3	0.2	0.15	0.1
	100	0.5	0.3	0.3	0.2
	125	0.7	0.5	0.4	0.3
	150	1.0	0.8	0.6	0.5
	200	1.8	1.3	1.0	0.8
	250	2.8	2.0	1.6	1.3
	300	4.0	2.9	2.3	1.9
	400	7.0	5.0	4.0	3.2
	500		7.8	6.2	5.1
	600			8.8	7.2
	700			11.9	9.8
	800				12.8

2	100	0.1			
	150	0.3	0.2	0.2	0.1
	200	0.5	0.4	0.3	0.2
	250	0.8	0.6	0.4	0.4
	300	1.1	0.8	0.6	0.5
	400	1.9	1.4	1.1	0.9
	500	2.9	2.1	1.7	1.4
	600	4.2	3.0	2.4	2.0
	800		5.4	4.2	3.4
	1000		8.3	6.5	5.3
	1250			10.0	8.3
	1500				11.9
2 1/2	150	0.1			
	200	0.2	0.15	0.1	
	250	0.3	0.2	0.2	0.1
	300	0.5	0.3	0.3	0.2
	400	0.8	0.6	0.5	0.4
	500	1.2	0.9	0.4	0.6
	600	1.7	1.3	1.0	0.8

	800	3.0	2.2	1.7	1.4
	1000	4.7	3.4	2.7	1.9
	1250	7.5	5.4	4.2	3.5
	1500		7.5	5.9	4.8
	2000			10.3	8.5
	2500				13.3
3	300	0.1	0.1		
	500	0.4	0.3	0.2	0.2
	750	0.8	0.6	0.5	0.4
	1000	1.5	1.1	0.8	0.7
	1500	3.3	2.4	1.9	1.5
	2000	5.9	4.2	3.3	2.7
	2500		5.6	5.1	4.2
	3000		9.4	7.4	5.1
	3500			10.1	8.3
	4000			13.1	10.8
	4500				13.6
4	750	0.2	0.15	0.1	
	1000	0.4	0.3	0.2	0.2

	1500	0.8	0.6	0.5	0.4
	2000	1.5	1.1	0.8	0.7
	2500	2.2	1.6	1.3	1.1
	3000	3.2	2.3	1.8	1.5
	4000	5.7	3.4	3.2	2.6
	5000		6.3	5.0	4.1
	6000		9.0	7.1	6.8
	7000			9.7	7.9
	8000			12.7	10.3

* - Information supplied by The Engineering Tool Box