

# Flow through Pipe at 100 psig

**Pipe Diameter (in inches) Required to Pass a Given Amount of Air at 100-lb Pressure  
(With Less than 1 lb Drop in Pressure)**

Cubic Feet Per Minute	Length of Pipe in Feet										
	50	100	200	300	400	500	750	1000	2000	3000	5000
20	3/4	3/4	3/4	1	1	1	1	1 1/4	1 1/4	1 1/4	1 1/2
40	3/4	1	1	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	1 1/2	2	2
60	1	1	1 1/4	1 1/4	1 1/4	1 1/2	1 1/2	2	2	2	2 1/2
80	1	1 1/4	1 1/4	1 1/2	1 1/2	1 1/2	2	2	2	2 1/2	2 1/2
100	1 1/4	1 1/4	1 1/2	1 1/2	2	2	2	2	2 1/2	2 1/2	3
125	1 1/4	1 1/2	1 1/2	2	2	2	2	2 1/2	2 1/2	3	3
150	1 1/4	1 1/2	2	2	2	2	2 1/2	2 1/2	3	3	3 1/2
175	1 1/4	2	2	2	2	2 1/2	2 1/2	2 1/2	3	3	3 1/2
200	1 1/2	2	2	2	2 1/2	2 1/2	2 1/2	3	3	3 1/2	3 1/2
250	1 1/2	2	2	2 1/2	2 1/2	2 1/2	3	3	3 1/2	3 1/2	4
300	2	2	2 1/2	2 1/2	3	3	3	3	3 1/2	4	5
400	2	2 1/2	2 1/2	3	3	3	3 1/2	3 1/2	4	4	5
500	2	2 1/2	3	3	3	3 1/2	3 1/2	4	5	5	5
600	2 1/2	3	3	3 1/2	3 1/2	3 1/2	4	5	5	5	6
800	2 1/2	3	3 1/2	3 1/2	4	4	5	5	5	6	6
1000	3	3	3 1/2	4	4	5	5	5	6	6	8