

Air Line Pipe Size

Figures in body of chart are pipe sizes on a 100 PSI air system to carry air at about a 1 PSI per 100 feet pressure loss. When measuring piping distances, to be conservative, count each pipe fitting as equal to 5 feet of pipe. At other than 100 PSI, flow capacity will be in inverse proportion to pressure (as based on PSIA (absolute) pressure levels and calculated by Boyle's Law).

SCFM	Length of Run - Feet								
	25	50	75	100	150	200	300	500	1000
Flow	25	50	75	100	150	200	300	500	1000
6	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
18	1/2	1/2	1/2	3/4	3/4	3/4	3/4	1	1
30	3/4	3/4	3/4	3/4	1	1	1	1-1/4	1-1/4
45	3/4	3/4	1	1	1	1	1-1/4	1-1/4	1-1/4
60	3/4	1	1	1	1-1/4	1-1/4	1-1/4	1-1/2	1-1/2
90	1	1	1-1/4	1-1/4	1-1/4	1-1/4	1-1/2	1-1/2	2
120	1	1-1/4	1-1/4	1-1/4	1-1/2	1-1/2	1-1/2	2	2
150	1-1/4	1-1/4	1-1/4	1-1/2	1-1/2	2	2	2	2-1/2
180	1-1/4	1-1/2	1-1/2	1-1/2	2	2	2	2-1/2	2-1/2
240	1-1/4	1-1/2	1-1/2	2	2	2	2-1/2	2-1/2	3
300	1-1/2	2	2	2	2	2-1/2	2-1/2	3	3
360	1-1/2	2	2	2	2-1/2	2-1/2	2-1/2	3	3
450	2	2	2	2-1/2	2-1/2	3	3	3	3-1/2
600	2	2-1/2	2-1/2	2-1/2	3	3	3	3-1/2	4
750	2	2-1/2	2-1/2	3	3	3	3-1/2	3-1/2	4