

Estimator Form

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O. D. INCHES	NOMINAL I. D. MM
1/2"	16.5
3/4"	20
7/8"	22
1"	25
1-1/2"	40
2"	50
2-1/2"	63
3"	76
4"	100

ESTIMATOR - AIR TOOL CFM
(Compressed Air @ 125 psi, with -5 psi pressure drop)

TOOL	NOMINAL CFM
Air Drill	6 to 8
Air Ratchet	5
Brad Nailer	1
Blow Gun	7
Cut-Off Tool	12
DA Sander 7"	15
Fresh-Air System	11
Impact Wrench 1/2"	8
Sander 9"	17 to 20
Spray Gun	10 to 16
Undercoat Gun	19

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FASTPIPE and MAXLINE pipe sizes refer to nominal outside diameter size in inches or millimeters. FASTPIPE and MAXLINE inside diameter dimensions will be less.

RAPID-AIR tubing size is actual outside diameter. Inside diameter will be less. Example: 1/2" RAPID-AIR tubing is 3/8" inside diameter.

CFM Maximum Compressor Output: 1 H.P. = 3 to 3.5 CFM (normally closer to 3 CFM)

CFM Maximum Screw Compressor Output: 1 H.P. = 4 CFM

ESTIMATOR - ALUMINUM PIPE SIZE FOR MAINLINE OR LOOP

Knowing maximum shop SCFM requirements and mainline or loop total footage and using the chart below will enable you to select the proper mainline pipe size.

1. Determine mainline pipe size knowing total footage by one of two formulas. Length of straight run from compressor to furthest point, (mainline) or length of compressor pipe to loop plus 1/2 of loop circumference.
2. Next total air tool SCFM in use, plus an additional 25%. Knowing the SCFM needs and mainline or loop footage then select the proper pipe size.
3. Lastly, determine work station (drops) aluminum pipe size based on maximum SCFM at each location.

Note #1: Compressed Air SCFM @ 150 psi W.P. with -10 psi pressure drop

Note #2: Compressed Air SCFM @ 125 psi W.P. with -5 psi pressure drop

FOOTAGE MAINLINE AND/OR HALF LOOP TOTAL	MAXLINE TUBE Note #1			RAPID-AIR TUBING, Note #1	FASTPIPE, Note #2					
	1/2" (.48 I. D.)	3/4" (.80 I. D.)	1" (1.03 I. D.)	1/2" (.375 I. D.)	3/4" (.690 I. D.)	1" (.870 I. D.)	1-1/2" (1.43 I. D.)	2" (1.810 I.D.)	2-1/2" (2.320 I.D.)	3" (2.99 I. D.)
20'	60 SCFM			48 SCFM						
40'	50			32						
50'	45	150 SCFM	160 SCFM	30	80 SCFM	110 SCFM				
60'	40	135	145	28	70	100				
80'	32	125	125	24	60	90				
100'	28	92	112	15	50	80				
150'		65	88		35	60	200 SCFM	320 SCFM		
200'		60	72			55	185	302		
250'		52	60			50	160	285		
300'		30	48			40	140	275	600 SCFM	1200 SCFM
450'						30	100	190	475	950
600'							90	180	400	800
900'							80	170	325	650