



## INADEQUATE PIPING & HOSES INFORMATION

The largest pressure loss in a system serving air tools is found in two areas: hoses that are too long and hoses that are too small. The longer the hose, the more friction is created, regardless of size; this can be addressed by increasing hose size. For this reason, small diameter hoses inevitably limit flow. Choosing the proper diameter hose for the distance and flow required will go a long way to limiting pressure loss at the tool.

### RECOMMENDED FLEXIBLE HOSE SIZES (I.D.) FOR VARIOUS DISTANCES & FLOWS

Flow (SCFM)	Pressure PSI	25'	35'	50'	75'	100'	150'	200'
1	100	1/4	1/4	1/4	1/4	1/4	1/4	1/4
2	100	1/4	1/4	1/4	1/4	1/4	1/4	1/4
5	100	1/4	1/4	1/4	5/16	5/16	5/16	3/8
10	100	5/16	5/16	3/8	3/8	3/8	1/2	1/2
15	100	3/8	3/8	1/2	1/2	1/2	1/2	1/2
20	100	3/8	1/2	1/2	1/2	1/2	3/4	3/4
25	100	1/2	1/2	1/2	1/2	3/4	3/4	3/4
30	100	1/2	1/2	1/2	3/4	3/4	3/4	3/4
40	100	1/2	3/4	3/4	3/4	3/4	3/4	3/4
50	100	3/4	3/4	3/4	3/4	3/4	3/4	1
60	100	3/4	3/4	3/4	3/4	3/4	1	1
70	100	3/4	3/4	3/4	3/4	1	1	1
80	100	3/4	3/4	3/4	1	1	1	1
90	100	3/4	3/4	1	1	1	1	1
100	100	3/4	3/4	1	1	1	1	1

Calculations based on a pressure loss ( $\Delta P$ ) of maximum 5 PSIG

## AIR HOSES NYLON COIL C/W FITTING

- Light and easy to handle
- High impact and abrasion resistance
- Excellent elastic memory, can be stretched repeatedly yet return to original shape for convenient storage
- Colour: High-viz yellow
- Temperature range: -5°C to 70°C



**aurora tools**

Model No.	NPT (M)"	Length	Hose Inside Diameter"	Max. Working Pressure PSI	Price /Each
TLZ150	1/4	25'	1/4	200	
TLZ151	1/4	50'	1/4	200	
TLZ152	3/8	25'	3/8	300	
TLZ153	3/8	50'	3/8	300	

## AIR HOSE REPAIR KITS

- For a 3/8" hose, 1/4" NPT threads
- Set includes:**  
 1 hose splicer  
 1 hose end fitting  
 3 hose clamps
- Model No. TLZ149**  
**Price/Each \$**



## PLUG QUICK COUPLER KITS, 5 PIECES

- Set includes:**  
 One 1/4" quick coupler  
 One 1/4" female plug  
 Three 1/4" male plugs
- Model No. TLZ148**  
**Price/Each \$**



**aurora tools**



### VOLUME/CAPACITY

1 in <sup>3</sup> (cubic inch) = 16.387 cm <sup>3</sup>	1 m <sup>3</sup> = 35.3 ft <sup>3</sup>
1 ft <sup>3</sup> (cubic feet) = 0.0283 m <sup>3</sup>	1 litre = 0.001 m <sup>3</sup>
1 ft <sup>3</sup> = 28.32 litres	1 litre = 0.0353 ft <sup>3</sup>
1 gallon (US) = 3.785 litres	1 litre = 0.264 gallon (US)
1 gallon (imperial) = 4.546 litres	1 litre = 0.220 gallon (imperial)
1 cm <sup>3</sup> (cubic centimeter) = 0.0610 in <sup>3</sup>	1 fl. ounce (imperial) = 28.413 ml
1 m <sup>3</sup> (cubic meter) = 1000 litres	1 litre = 35.2 ounces

### LENGTH

1 inch = 25.4 mm	1 mm = 0.039 in
1 ft (feet) = 0.305 m	1 m = 3.28 ft

### WEIGHT

1 ounce = 28.349 g	1 g = 0.035 ounce
1 pound = 453.592 g	1 kg = 2.205 lbs