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	Distance 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 (ΔP) 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 $

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VOLUME/CAPACITY

1 in³ (cubic inch) = 16.387 cm³
1 ft³ (cubic feet) = 0.0283 m³
1 ft³ = 28.32 litres
1 gallon (US) = 3.785 litres
1 gallon (imperial) = 4.546 litres
1 cm³ (cubic centimeter) = 0.0610 in³
1 m³ (cubic meter) = 1000 litres

1 m³ = 35.3 ft³
1 litre = 0.001 m³
1 litre = 0.0353 ft³
1 litre = 0.264 gallon (US)
1 litre = 0.220 gallon (imperial)
1 fl. ounce (imperial) = 28.413 ml
1 litre = 35.2 ounces

LENGTH

1 inch = 25.4 mm
1 ft (feet) = 0.305 m

1 mm = 0.039 in
1 m = 3.28 ft

WEIGHT

1 ounce = 28.349 g
1 pound = 453.592 g

1 g = 0.035 ounce
1 kg = 2.205 lbs