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	
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

Hybrid Air Hose

- Hybrid air hose provides the no-compromise solution that allows both exceptional flexibility and superior abrasion and general wear resistance
- For demanding heavy duty truck and industrial applications, hybrid is the air hose solution of choice
- Exterior and interior hose layers: premium polymer for excellent flexibility
- Interlayer: reinforced polyester for strength and longevity
- Solid crush proof couplings for leak proof sealing: 1/4" fittings for 1/4" and 3/8" ID, and 1/2" fittings for 1/2" ID
- Temperature range: -40°C (-40°F) to +82°C (180°F) – wide spectrum of indoor/outdoor applications - ideal for extreme cold weather environments
- Abrasion resistant outer cover for service longevity
- UV, ozone, and chemical resistance for safety and long service life
- 300 PSI maximum working pressure, 4:1 safety factor (1200 PSI burst pressure)
- Length: 25'
- Working Pressure: 200 psi
- Format: Fixed Length
- Fitting Size: 1/4" NPT
- Inside Diameter: 3/8"

Model No. UAV951
Mfg. No. 408193
Price/Each $

JET

VOLUME/CAPACITY

1 in³ (cubic inch) = 16.387 cm³	1 m³ = 35.3 ft³
1 ft³ (cubic feet) = 0.0283 m³	1 litre = 0.001 m³
1 ft³ = 28.32 litres	1 litre = 0.0353 ft³
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 cm³ (cubic centimeter) = 0.0610 in³	1 fl. ounce (imperial) = 28.413 ml
1 m³ (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