Maintaining Adequate Air Flow

Prevent and Eliminate Air Supply Restrictions

Common Causes of Restriction

- The air supply hose is too long.
- The inside diameter (i.d.) of the hose is too small.
- The air connections or fittings have inside diameters that are too small.
- There are too many air connections or fittings being used.
- If an inline filter is being used, the unit may be too small or the filter element may be plugged.
- If an inline regulator is being used, the unit may be to small, not adjusted properly or defective.
- The air supply hose, air fitting, air tool inlet or air tool exhaust may be plugged.
- If the air tool has a speed regulator, it may be closed.

Air Hose Supply

- Use the air supply hose with the correct inside diameter as is recommended by the air tool manufacturer.
- Use the shortest air supply hose possible for the task being performed.
- Longer air supply hoses require larger inside diameters.
- Coiled air supply hoses appear much shorter than they actually are. When using a coiled hose, make sure that the inside diameter is large enough to compensate for the length (see chart below).

Air Supply Hose Recommended Chart

 Choose the correct Inside Diameter (I.D.) and Length of Air Supply Hose.

NOTE: To increase the length of air supply hose it will be necessary to increase the inside diameter of the hose.

Air Motor SCFM (Standard Cubic Feet per Minute)	Hose & Fitting I.D. Required	Recommended Length Air Supply Hose
22 SCFM (623 LPM)	1/4" (8 mm)	1' - 8' (0.3048 m – 2.44 m)
28 SCFM (793 LPM)	3/8" (10 mm)	1' - 25' (0.3048 m - 7.6 m)
35 SCFM (991 LPM)	3/8" (10 mm)	1' - 20' (0.3048 m – 6.10 m)
45 SCFM (1,274 LPM)	3/8" (10 mm)	1' - 10' (0.3048 m – 3.042 m)
73 SCFM (2,067 LPM)	1/2" (15 mm)	1' - 20' (0.3048 m – 6.10 m)

Flexible Air Supply Hoses (Available from Dynabrade)

- 3/8" I.D. with two male 1/4" NPT fittings. Part No. 11292 8 feet (2.44 m) long
- 1/2" I.D. with one male and one female 1/2" NPT fitting. Part No. 95870 5 feet (1.53 m) long

Air Supply Connectors/Accessories

Compare airflow SCFM (LPM)



Common Plug Connector 25 SCFM (708 LPM) .2010 in. (5.11 mm) I.D.



Dynabrade Plug Connector 76 SCFM (2,152 LPM) .3070 in. (7.80 mm) I.D.

NOTE: All information is based on the size of the Inside Diameter @ 90 PSIG (6.2 Bar) in conjunction with the mating coupler.

How to Measure a Typical Plug

