

Filter / Extractors	
Model	Part Number
<b>High Flow Filter Regulator Extractor with 1/2" NPT - 0.3 µm</b> <i>Use for 310RX, 450X, 740XP, 650X models</i>	30084
<b>High Flow Filter Regulator Extractor - 0.3 µm</b> <i>Use for all models</i>	30008
<b>High Flow Filter Regulator - 5 µm</b> <i>Use for all models</i>	30003
<b>High Flow Filter - 5 µm</b> <i>Use for all models</i>	30004
<b>Low Flow Filter - 5 µm</b> <i>Use for 0145, 200, 201, 0190 models</i>	30002
<b>Low Flow Filter Regulator - 5 µm</b> <i>Use for 0145, 200, 201, 0190 models</i>	30001
<b>Low Flow Filter Regulator &amp; Extractor Combo</b> <i>Use for 0145, 200, 201, 0190, 720MX, 722MX, 730MX, 740MX, 800LT, 822CX, 825CX, 820MX, 822MX, 825MX models</i>	30006
<b>Low Flow Element</b> <i>Use for 0145, 200, 201, 0190 models</i>	11191
<b>High Flow Element</b> <i>Use for all models</i>	11192
<b>Coalescing Element</b> <i>Use for all models</i>	11193
<b>High Flow Element</b> <i>Use for part number 30084</i>	11214
<b>Coalescing Element</b> <i>Use for part number 30084</i>	11215
<b>High Flow Bowl</b> <i>Use for all models</i>	11194

Hoses for Air Turbine Spindles®	
Model	Part Number
<b>Tube 10mm O.D., 6.5mm I.D.</b>	16508
<b>Tube 12mm O.D., 10mm I.D.</b>	16509
<b>10mm O.D., 6.5mm I.D. Hose + Fitting - 12'</b>	30043
<b>12mm O.D., 10mm I.D. Hose + Fitting - 12'</b>	30045

Air Supply Assembly with Fittings	
Model	Part Number
<b>5' Air Supply Assembly with Fittings</b> <i>Use for 0145SSV, 0190SSV, 200SV, 201SV models</i>	32107
<b>5' Air Supply Assembly with Fittings</b> <i>Use for 202SV, 525SV models</i>	32207
<b>5' Air Supply Assembly with Fittings</b> <i>Use for 206XSV models</i>	32607
<b>5' Air Supply Assembly with Fittings</b> <i>Use for 2545SSVF, 2590SSV, 2590SVF models</i>	34207
<b>5' Air Supply Assembly with Fittings</b> <i>Use for 2545SSVR, 2545SSVF models</i>	34208
<b>5' Air Supply Assembly with Fittings</b> <i>Use for 201DM, 202DM, 206XDM, 525DM, 2545DM, 2590DM, 202HD models</i>	30010
<b>8' Air Supply Assembly with Fittings</b> <i>Use for 201DM, 202DM, 206XDM, 525DM, 2545DM, 2590DM, 202HD models</i>	30011
<b>6' Air Supply Assembly with Fittings</b> <i>Use for 230DM, 310RDM, 310RXDM, 210HD, 450HD, 450XHD, 450HDE, 460HD models</i>	30012
<b>12' Air Supply Assembly with Fittings</b> <i>Use for 230DM, 310RDM, 310RXDM, 210HD, 450HD, 450XHD, 450HDE, 460HD models</i>	30013
<b>5' Air Supply Assembly with Fittings</b> <i>Use for 525X models</i>	30020
<b>8' Air Supply Assembly with Fittings</b> <i>Use for 525X models</i>	30021

Foot Pedal Accessories	
Model	Part Number
<b>Foot Control Valve</b> <i>Use for 201, 202, 525, 0190, 0145, 2590, 2545 models</i>	30030
<b>Foot Control Valve with 8' Hose Assembly</b> <i>Use for 201, 0190, 0145 models</i>	30031
<b>Foot Control Valve with 8' Hose Assembly</b> <i>Use for 206X models</i>	30032
<b>Foot Control Valve with 8' Hose Assembly</b> <i>Use for 202, 525 models</i>	30033
<b>Foot Pedal Assembly with Air Supply</b> <i>Use for 2590, 2545 models</i>	30034
<b>Foot Control Valve Safety Guard</b>	30039

Refer to page 3 for instructions on how to install your filter / regulator with your Air Turbine Tool®.

See Figure 4 on page 3 for hose / fitting / coupling minimum internal diameter specifications for your Air Turbine Tool® model.



### Manual Shut-Off Valve Installation Kit for all Air Turbine Spindle® Units Except 650X and 450X

Part #30079

Qty	Description
1	Shut-off Valve Assembly
1	25' Hose 12mm OD
3	Quick Change Unifit Connectors 3/8"

### Manual Shut-Off Valve Installation Kit for 650X and 450X Units

Part #30085

Qty	Description
1	Shut-off Valve Assembly
1	25' Hose 16mm OD
3	Quick Change Unifit Connectors 1/2"

### Solenoid Assembly for NPT connected 650X and 450X Units

120V Part #30086 • 240V Part #30087

Qty	Description
1	Hose 16mm OD - 25' (7.62m)
1	16mm - 1/2" Unifit Fitting
1	Solenoid 120V or 240V

### Solenoid Assembly for NPT connected 650 / 660 Units and for all Air Turbine Spindle® Units with TMA

120V Part #30026 • 240V Part #30075

Qty	Description
1	Hose 12mm OD - 25' (7.62m)
1	12mm - 3/8" Unifit Fitting
1	Solenoid 120V or 240V

### Solenoid Assembly for NPT connected 600X / 601 / 602 / 720 / 722 / 725 / 730 / 740MX / 202HD Units

120V Part #30027 • 240V Part #30076

Qty	Description
1	Hose 12mm OD - 12' (3.66m)
1	Hose 10mm OD - 13' (3.96m)
1	12mm - 3/8" Unifit Fitting
1	10mm - 3/8" Unifit Fitting
1	10mm 1/8" Unifit Fitting
1	Solenoid 120V or 240V

### Solenoid Assembly for NPT connected 625 / 625X Units

120V Part #30028 • 240V Part #30077

Qty	Description
1	Hose 12mm OD - 12' (3.66m)
1	Hose 10mm OD - 13' (3.96m)
1	12mm - 3/8" Unifit Fitting
1	10mm - 3/8" Unifit Fitting
1	10mm 1/4" Unifit Fitting
1	Solenoid 120V or 240V

### Solenoid Assembly for 210 / 450 / 460 / 740XP Units

120V Part #30029 • 240V Part #30078

Qty	Description
1	Hose 16mm OD - 25' (7.62m)
1	16mm - 1/2" Unifit Fitting
1	Solenoid 120V or 240V

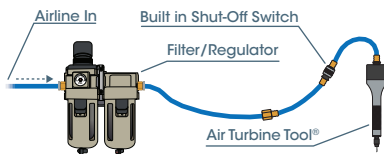
### Installing a Filter / Regulator

Install a new dedicated clean air line from a Filter/Regulator to your Air Turbine Tool® as shown in **Figures 1, 2 and 3**. Filter/Regulators are included with the **Air Turbine Spindles®**, **Air Turbine Live Tools®** and the **700 series of Air Turbine Motors®**. Filter/Regulators are available for an additional purchase.

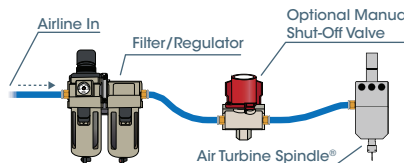
Ensure all air lines and fittings meet the minimum internal diameter specified for your model as specified in **Figure 4**. Additionally, place a plug in any air inlet that is not being used.

If working in a wet environment with the **700 Series of Air Turbine Motors®** or **Air Turbine Live Tools®** install exhaust hoses as shown in **Figure 3**. Internal diameters of exhaust hoses must be no smaller than minimum required ID for your model as shown in **Figure 4**.

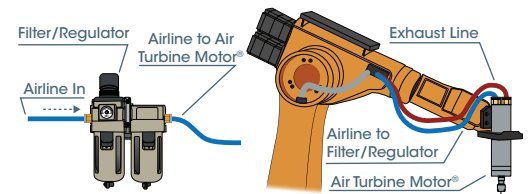
**Optional:** If you purchased or have a manual shut-off valve, install it after the Filter/Regulator as shown in **Figure 2**. Using a manual valve is recommended for Air Turbine Spindles®, Motors® and Live Tools®. Air Turbine Hand Tools already have a manual shut-off switch built into the tool as shown in **Figure 1**.



**Figure 1:** Clean Airline from a Filter/Regulator to an Air Turbine Hand Tool.



**Figure 2:** Clean Airline from a Filter/Regulator to a manual shut-off valve to an Air Turbine Spindle®.



**Figure 3:** Clean Airline from a Filter/Regulator to a mounted Air Turbine Motor® with exhaust hoses installed.

A 0.3 micron filter extractor regulator combination is a necessary accessory for Air Turbine Tools® to eliminate impurities in your air supply. Contamination will damage your turbine components and require repair.

**Filter elements need to be changed and extractor drained in regular maintenance cycles.**

Model			Minimum Required ID	
			Metric	Imperial
› 600X › 601	› 602 › 800LT	› 822CX › 825CX	4mm	5/32"
› 200 › 201	› 0145	› 0190	4.763mm	3/16"
› 720MX › 722MX	› 732MX › 820MX	› 822MX › 730MX	5mm	0.1969"
› 202HD › 725MX › 740MX › 625	› 202 › 206X › 525	› 2590 › 2545 › 825MX	6mm	15/64"
› 625X › 650 › 660 › 450HD	› 460HD › 740XP › 210HD › 525X	› 303RX › 310R › 230DM	8mm	5/16"
› 650X	› 310RX	› 450X	12mm	15/32"

**Figure 4:** Air Turbine Tools® Hose / Fitting / Connector Internal Diameter Specifications.

### Air Hoses and Fittings Requirements

**Avoid fittings, couplings and hoses with a smaller internal diameter than the minimum required for your model.** Any connections smaller than the minimum will restrict air flow and reduce power to your Air Turbine Tool®. You can find the minimum required internal diameter for fittings and hoses for your tool on the table shown in **Figure 4**.

Air flow restrictions (such as air leaks and obstructions) cause under power performance and your cutting tool to drag through the material, damaging the bearings. **Some fittings with nominal internal dimensions may have an Internal Diameter passage that is smaller than stated and restrict air flow and power.** It only takes one fitting with too small an Internal Diameter to reduce air flow and reduce power of your Air Turbine Tool®.

#### General Air Fitting Dimensions

- › **1/4" Male > ID** - Usually 0.210" but some variations occur.
- › **1/4" Male (High Flow, Harbor) ID** - 0.277" with 1/4" NPT male thread.
- › **3/8" Male Hole** - 0.283" to 0.285" with thread of 3/8" - NPT (internal ID of female mating OD appears even smaller ID).
- › **1/2" Male Hole** - 0.375" (0.655" OD).

#### General Hoses

Actual Internal Diameter on brass fittings (i.e. swaged on ends) of standard Goodyear, etc. brands of 1/2" & 3/8" hose have various internal dimensions. As an example, Goodyear 1/2" Red hose with 3/8" / 9.5mm NPT fitting has Internal diameter hole of 0.282", which is sufficient for models that require a minimum ID of 6 mm, but not for models that require a minimum ID of 8mm. Goodyear black 3/8" / 9.5mm hose has Internal Diameter hole on swaged fittings of ~0.265" and is suitable for models requiring a 6 mm ID or smaller.