Sandblasting Air Connections and Setup
The Compressor

Compressor Pump – takes in ambient air and pressurizes it by pumping it into the storage tank until the pressure switch shuts off the power to the motor.

Pressure Switch turns compressor on when tank pressure drops to 90 psi.

Pressure Gauge reads storage tank pressure.

Air Storage Tank
The Pressure Regulator

Pressure Regulator – Reduces the pressure of the air from the storage tank and keeps it constant regardless of storage tank pressure which varies due to compressor cycling.

Quick Disconnect Fitting - Hose

Pressure Gauge – Reads pressure of air being delivered from the regulator to the tool

Water Separator (trap) – removes water from the air as air flows through the regulator (not all regulators have this feature)

Water Drain Valve – allows water to be drained from water separator

Air hose from compressor

Regulators are usually included on portable compressors
This Diagram shows the “starting position” for all valves when setting up a pressure pot.

Inlet valve = Full Open, Choke Valve = Full Open, Mixing Valve = Closed halfway
Pressure Pot Schematic
(For a Pressure Pot without a Footswitch)

This Diagram shows the “starting position” for all valves when setting up a pressure pot.

Inlet valve = Full Open, Choke Valve = Full Open, Mixing Valve = Closed halfway
Pressure Pot with Footswitch

- Pressure Regulator for Pressure Pot
- Abrasive Fill Port
- Water Separator (Trap)
- Overpressure Relief Valve
- Inlet Valve
- Pressure Regulator for Footswitch
- Choke Valve
Abrasive Fill Port

Handle is lifted while pressurizing pot to create the pressure seal.

Rattle handle to make sure abrasive is knocked off seal prior to pressurizing or leak may result.
Mixing and Footswitch Valve

- Air Hose to Nozzle
- Footswitch Valve
- Mixing Valve
- Air Hose from Choke Valve
- Air Hose from Footswitch
Pressure Pot Without Footswitch
Mixing Valve (no footswitch)
Directions for Operation

• Turn on Compressor and let pressure build
• Set Compressor Regulator to 60 – 75 psi
• Adjust Mixing Valve on Pressure Pot to half-closed (45°)
• Open Air Inlet Valve on Pressure Pot
• Set Footswitch Regulator to 50 psi (turn clockwise to increase)
• Lift Handle or seal pressure pot and set Pressure Pot Regulator to 25 psi (turn clockwise to increase)
• Have a Blast!!!
• Reduce Pressure Pot Regulator to 0 psi (turn counterclockwise to decrease)
• Open Tank Water Valve to Drain Moisture
• Turn off Compressor