HOW IT WORKS

K-SERIES 3.5/6.5 CU FT PRESSURE HOLD (KPH) SYSTEMS

WARNING: This section of the manual is designed to give you a general understanding of how the Abrasive Blaster functions. **All** sections of this manual must be read and understood before operating the equipment.

ADDING ABRASIVE

Abrasive is added through the hole in the top of the Abrasive Blaster where the Pop-up and its seat are located. When abrasive is added, it flows down through the hole, around the Pop-up and, down to the bottom of the pressure vessel where it will exit through the Metering Valve when blasting is started.

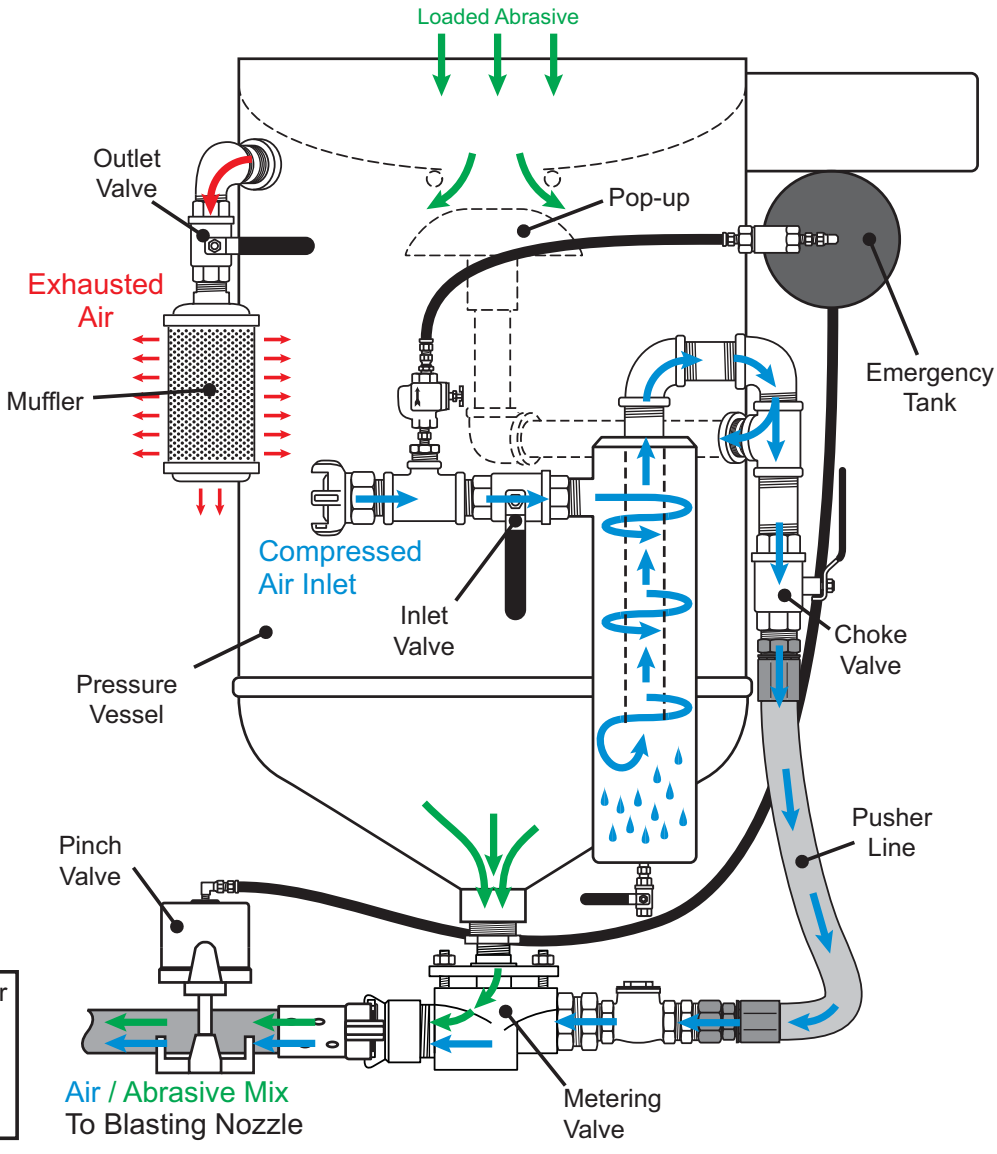
PRESSURIZATION

Before pressurization can take place in a pressure hold system, the Blow-down (outlet) Valve must be closed. Then, when a compressed air source (such as an air-compressor) is connected to the inlet of the Abrasive Blaster and turned on, the Emergency Air Tank is pressurized and the Pinch Valve closes. The Emergency Air Tank is a safety feature that will store a reserve of compressed air that will be available to keep the pinch valve closed in the event of a compressor failure.

When the Inlet Valve is opened, compressed air can flow through the Moisture Separator and into the pressure vessel causing the Pop-up (located internally) to seal against its seat allowing the pressure vessel to become pressurized. When the control handle is activated, a control valve allows the Pinch Valve to open allowing compressed air & abrasive to flow and mix. The mixture of compressed air and abrasive will now exit the Abrasive Blaster through the blast hose and nozzle connected to the coupling on the Metering Valve and blasting begins.

DEPRESSURIZATION (BLOW-DOWN)

When the control handle is released in a pressure hold (KPH) system, the Pinch Valve closes and the pressure vessel remains filled with compressed air. The compressed air remaining in the pressure vessel is released when the inlet valve is manually closed and the blow-down (outlet) valve is manually opened.



- Flow of Compressed Air
- Flow of Abrasive
- Flow of Exhaust Air During Blow-down