



HOW IT WORKS

SPH PINCH Bulk Abrasive Blasters

(Pressure Hold - Normally Open Valves)

ADDING ABRASIVE

Abrasive is added through the 5-Bolt/7-Bolt Closure Assembly at the top of the Abrasive Blaster. When abrasive is added, it flows down through the hole, around the Double Seal Posi Seal Valve (If Equipped), 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 and Inlet Valves must be closed, and the 5-Bolt/7-Bolt Closure Assembly must be properly closed according to the procedures described in the "Operating Procedures" section of this manual on blasters not equipped with the Double Seal Posi Seal Valve. 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 Valves close. The Emergency Air Tank is a safety feature that will store a reserve of compressed air that will be available to close the pinch valves 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 pressure vessel to fill with compressed air. When the control handle is activated, the Pinch Valve opens allowing compressed air & abrasive to flow. The mixture of compressed air and abrasive will now exit the Abrasive Blaster through a blast hose and nozzle connected to the coupling on the Pinch Valve hose and blasting begins.

DE-PRESSURIZATION (BLOWDOWN)

When the control handle is released in a pressure hold (SPH) system, 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 valve is manually opened.

