

3-WAY DIFFERENTIAL PRESSURE TEST VALVE

Part # SC-9600

SOLUTION OVERVIEW

The original, spring return, Schultz 3-Way Test Valve is designed to allow a hydraulic test movement of the D/P gauge piston. This is done by venting the lower piston chamber, and allowing the line pressure to drive the piston into its maximum low position. During this test, you observe the piston's movement to insure smooth and continuous operation.

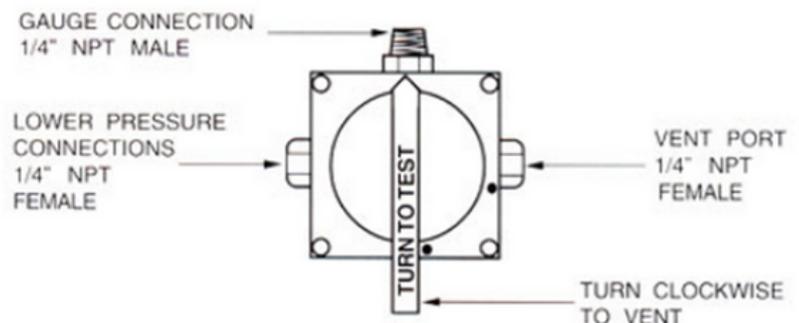


ADVANTAGES

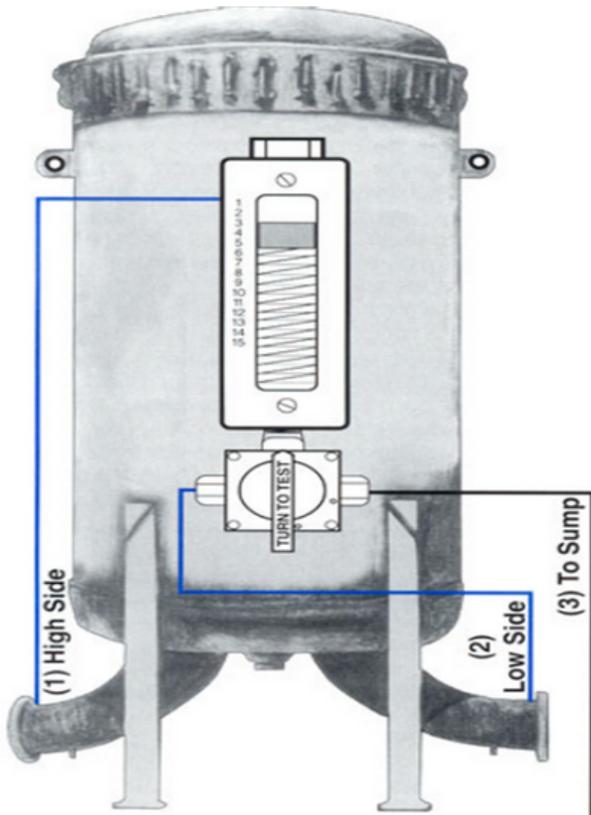
- Works with two ranges of D/P Gauges:
(1) 0 - 15 psi (2) 0 - 30 psi
- Stainless Steel & Aluminum Alloy
- Seals, Viton & Teflon
- Stainless Steel Ball
- Single hand Test Operation
- Stop Pins to prevent Seal Damage
- Works with Schultz, Gammon and other brands of Gauges.

To perform this test, the filter must be flowing fuel through the system. With 3 - way valve clockwise, observe the pistons movement to scale. The valve will automatically return the gauge to its normal operation pressure when the handle is released.

Valve may be mounted on the bottom of the gauge, or remotely installed on pnels or walls, using tubing.



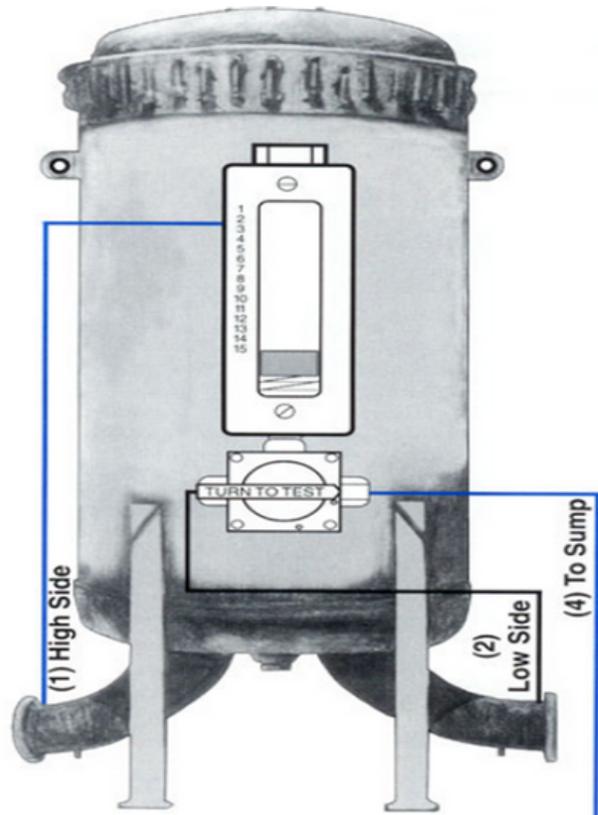
NORMAL OPERATION



Normal Operations

- (#1) When the 3-way valve is in the normal, spring loaded (closed) position, fuel pressure flows through the high side entrance flange, and into the top of the piston maybe noticeable.
- (#2) The low side fuel pressure is ported through the bottom of the D/P gauge, through the top of the 3-way valve, and into a fitting on the left side to the valve. That fitting is hard piped to the exit for the filter.
- (#3) During normal operation, the 3-way valve closes off the (vent port), to the sump. When fuel flows, the gauge works normally, indication the difference in pressure from the inlet side, to the

TEST OPERATIONS



Test Operations

- (#1) During a test, fuel pressure flows to the high side of the differential pressure gauge normally.
- (#2) When the spring loaded handle is turned clockwise, (port #2) is blocked by the 3-way valve.
- (#4) At the same time, pressure on the bottom of the piston is vented to the sump, (port #4). While this is taking place, you should observe pressure from the top of the piston, moving the piston downward, to the bottom of the differential pressure gauge.

When the 3-way valve is released, the spring action returns the valve handle to the left. The gauge piston should return to the same PSI reading as before

MY NOTES: