

The Differential Pressure Transmitter includes a pipe-to-pipe 3-valve manifold option. The manifold consists of two isolation (block) valves and an equalizer valve. The 3-valve manifold assembly simplifies installation, allows easy service without disruption of the process and reduces costs when compared to using individual components.

The manifold is constructed of one-piece 316 stainless steel for high strength and superior corrosion resistance and features a no-weld design for safety. The unit is 100% pressure tested for shut-off at all seals. Connections are 1/4" Female NPT on 2 1/8" (54 mm) centers and bonnet lock pins are standard to prevent accidental valve disassembly.

Typically, the transmitter, manifold and interconnect piping are completely assembled and fixed to a mounting bracket for easy installation. Installation requires four screws each for the enclosure and bracket to mount the assembly onto a flat surface and then the High and Low pressure lines are plumbed to the valve.

The assembly is shipped with the Equalize valve open and both Isolation valves closed. Verify these valve positions before installation. After installation slowly open the Isolation valves to allow wetting of the sensors and to prevent hammering. Then close the Equalize valve to start normal measurement of the differential pressure.

In normal operation the two Isolation valves are open and the Equalize Valve is closed to provide the differential pressure to the transmitter. To remove the transmitter without disturbing the process, simply open the Equalize valve first to equalize the pressure on the sensors and then close both Isolation valves.

