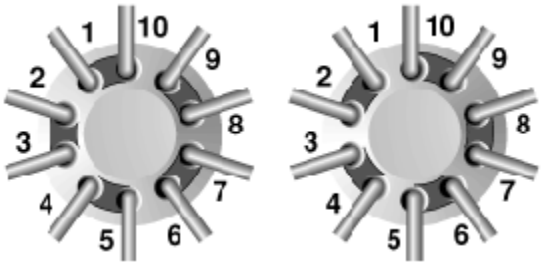
TitanEX™
MLP778-607
2-Position 10-Port

Description

The MLP778-607 is a low pressure, 2-position, 10-port motorized injection/switching valve that includes a circuit board. The design of this valve provides a small footprint. A unique patented* Tubing Connection System eliminates the need for threaded nuts and ferrules for tubing retention and liquid sealing.

Flow Diagram

A schematic of the valve flow switching pattern is shown below. The numbered circles represent the ports in the valve stator. The grooves represent the connecting passages in the rotor seal. Please note that this is a representation of the flow path and may not show the true position of the ports and grooves.



Position 1 Position 2

Specifications

Liquid Contacts: RPC-7
Port Size: Accepts 1/16" OD tubing directly into the valve
Flow Passage Diameters: 1.0-mm (0.040")
Volume in Flow Passages: ***Stator***- 5.1 µL/hole
Rotor Seal- 2.3µL/groove
Maximum Pressure: 0.9 MPa (9 bar, 125 psi)
Motor: 5 ohm, spark-free, 7.5 degree stepper motor
Actuation Time: 280ms
Communication: 4-Line BCD
Drive Board Power Supply Requirements: 24 VDC ± 5% at 1 Amp max
Quiescent Current: 20mA
RoHS Compliant: Yes

* US Patent 7,014,222 dated 03/21/2006

NOTE: Shipping, storing or operating this valve below 0°C with water in the fluid passages may cause failure of the sealing surfaces.

Dimensional Drawings on page 2

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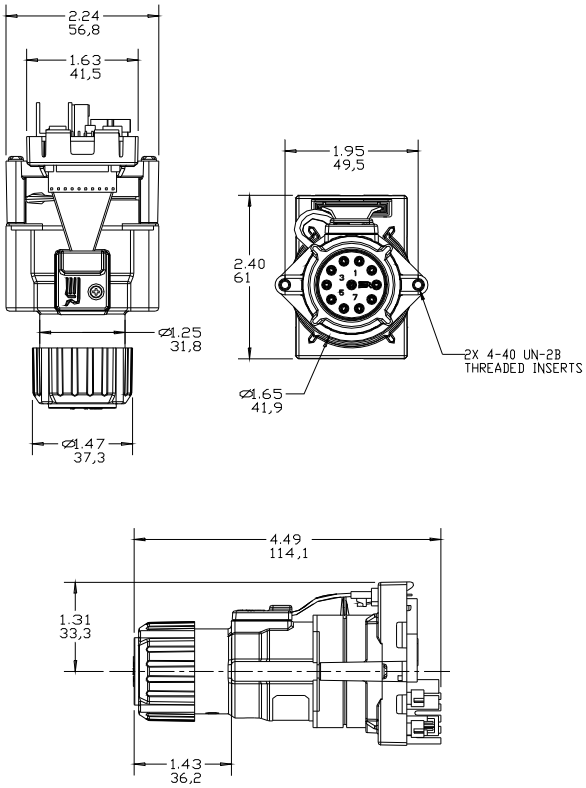
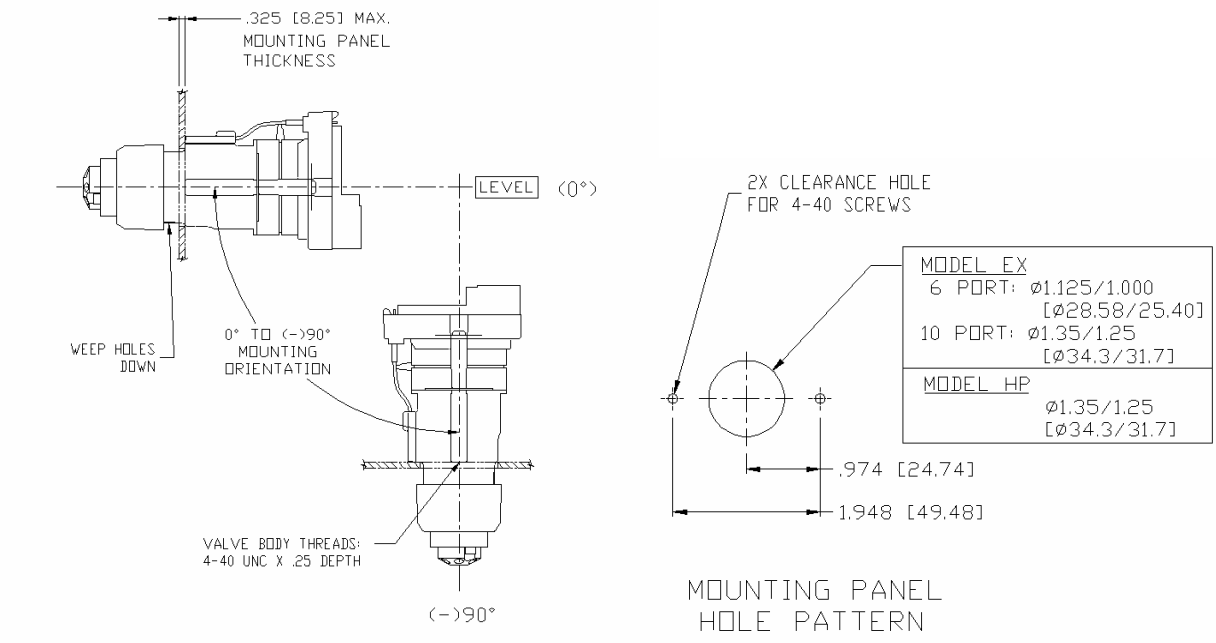
MLP778-607

Dimensions are in inches/millimeter



***** This model includes 1/16" O-rings at the base of the stator ports.

Mounting Orientation:



- Rheodyne valves are designed for use with fluids. Prolonged operation of the valve without fluid in contact with the valve's sealing surfaces may result in permanent damage and/or a loss of performance.

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