TitanEX™
MLP778-605 and MLP778-606
10-Position, 11-Port Selector

Description

The MLP778-605 and 606 are low pressure, 10-position, 11-port motorized selection valves that include a circuit board. Model MLP778-605 accepts 1/16" tubing and model MLP778-606 accepts 1/8" tubing. The design of these valves 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

The flow switching pattern of the valve is shown below. The circles represent the ports in the valve ram and stator. The dark slot represents the connecting passage in the rotor seal.

Specifications

Liquid Contacts: RPC-7
Port Size: MLP778-605 accepts 1/16" OD tubing directly into the valve
MLP778-606 accepts 1/8" OD tubing directly into the valve
Flow Passage Diameters: 1.0-mm (0.040")
Volume in Flow Passages: ***Stator***- Center Port - 3.1 µL/hole, Peripheral Ports - 5.1 µL/hole,
Rotor Seal- 3.4 µL/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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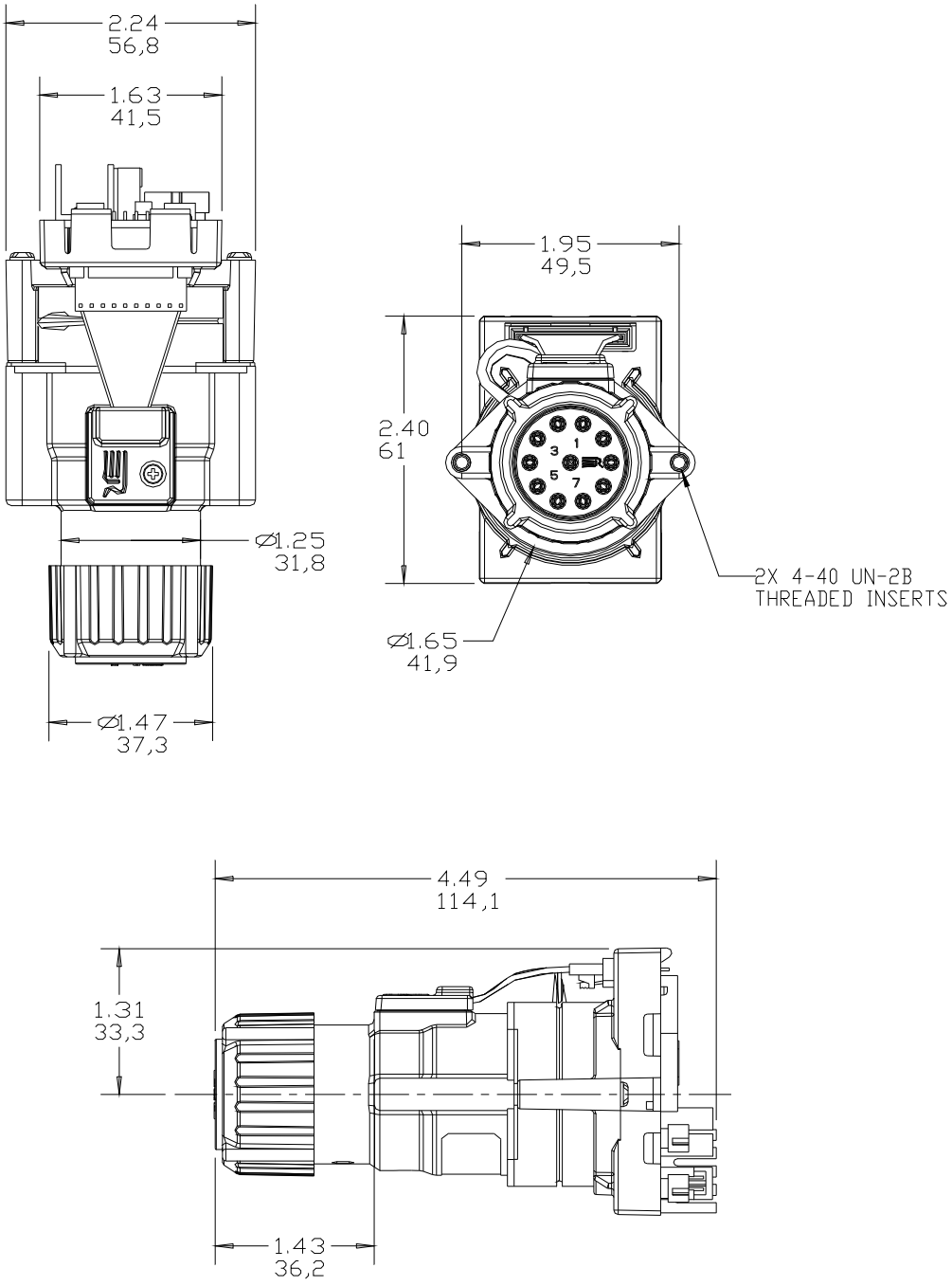
Dimensional Drawing

Dimensions are in inches/millimeter



* The model MLP778-605 includes 1/16" O-rings at the base of the stator ports.

- 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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