



TitanEX™

MLP777-603

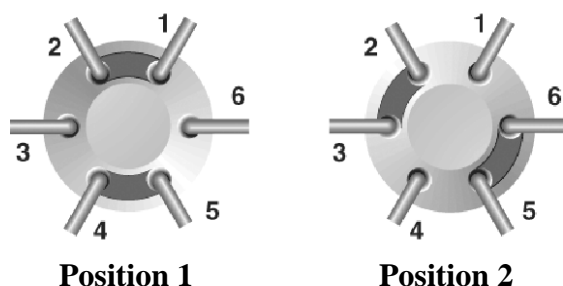
2-Position, 6-Port Double Three-Way

Description

The MLP777-603 is a low pressure, 2-position, 6-port double three-way motorized 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

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



Specifications

Liquid Contacts: RPC-7

Port Size: Accepts 1/16" OD tubing directly into the valve (see diagram on page 2)

Flow Passage Diameters: 0.41-mm (0.016")

Volume in Flow Passages: *Stator*- 0.2 µL/hole, *Rotor Seal*- 1.3 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 \pm 5% at 1 amp Max

Quiescent Current: 20mA

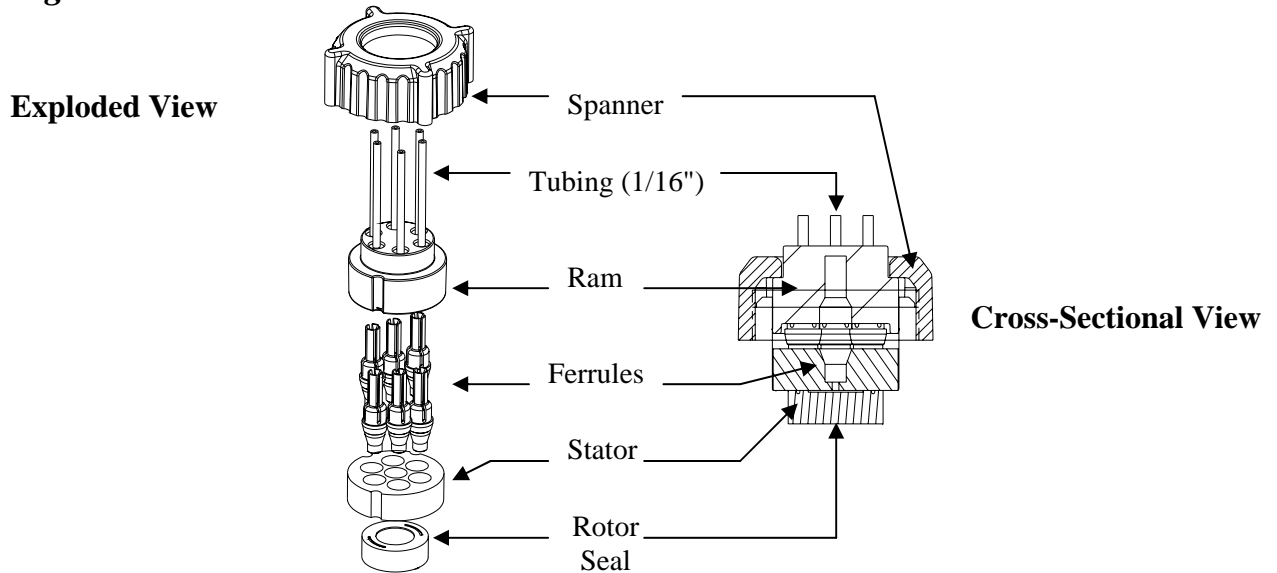
RoHS Compliant: Yes

* 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.

Tubing Connection Detail and Dimensional Drawings on page 2

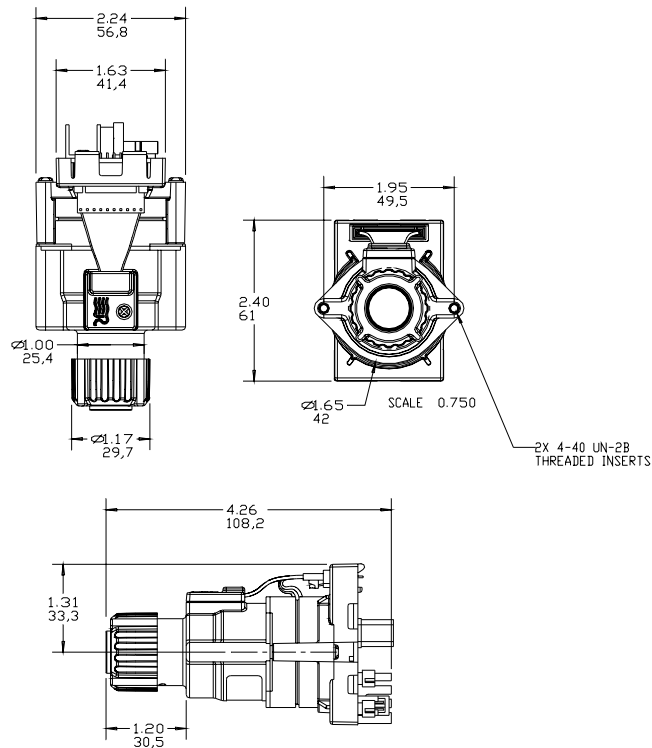
Tubing Connection Detail:



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

Dimensional Drawings

Dimensions are in inches/millimeter



- 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.