



# TitanEX™

## MLP777-612

### 2-Position, 6-Port

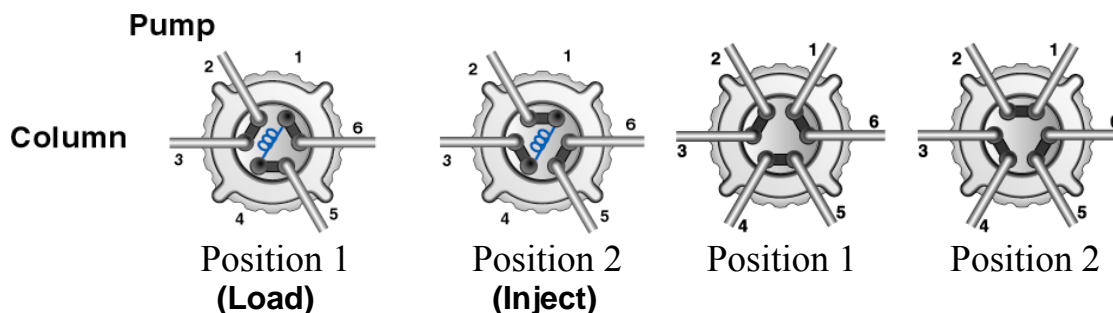
#### **Description**

The MLP777-612 is a low pressure, 2-position, 6-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**

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.

#### **Injection Valve Switching Valve**



#### **Specifications**

**Liquid Contacts:** RPC-7

**Port Size:** Accepts 1/8" OD tubing directly into the valve (see diagram on page 2)

**Flow Passage Diameters:** 1.5-mm (0.060")

**Volume in Flow Passages:** *Stator*- 6.9 µL/hole, *Rotor Seal*- 18.9 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

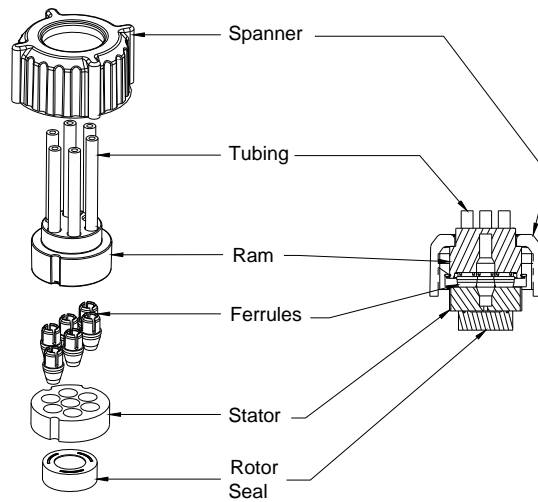
**RoHS Compliant:** Yes

\* 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.

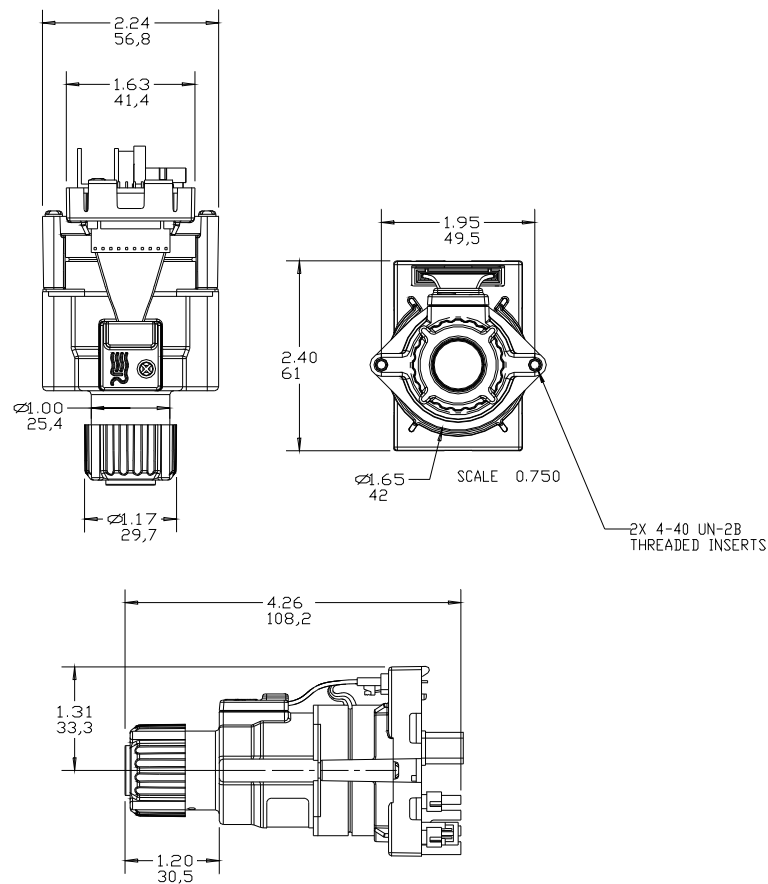
**Tubing Connection Detail and Dimensional Drawings on page 2**

## Tubing Connection Detail



## 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.