



# TitanEX™

## MLP777-216

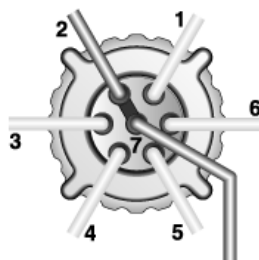
### 6-Position, 7-Port Selector

#### *Description*

The MLP777-216 is a low pressure, 6-position, 7-port motorized selection valve. 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 groove represents the connecting passage in the rotor seal.



#### *Specifications*

**Liquid Contacts:** RPC-7

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

**Flow Passage Diameters:** 1.5-mm (.060")

**Volume in Flow Passages:** *Stator-* 6.9 µL/hole, *Rotor Seal-* 14.2 µL/groove

**Maximum Pressure:** 0.9 MPa (9 bar, 125 psi)

**Motor:** 5 ohm, spark-free, 7.5 degree stepper motor

**Motor Power Requirements:** 24 VDC  $\pm$  5% at 1 Amp max

**Motor Position Sensors:** Optoelectric position sensors with encoder wheels

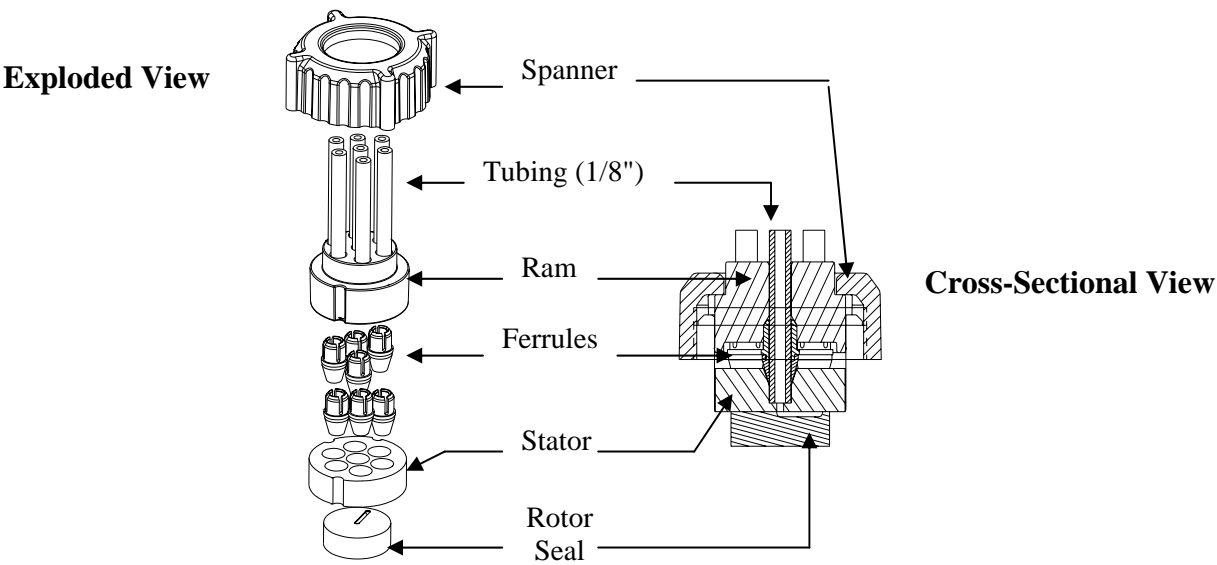
**RoHS Compliant:** Yes

\* 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.

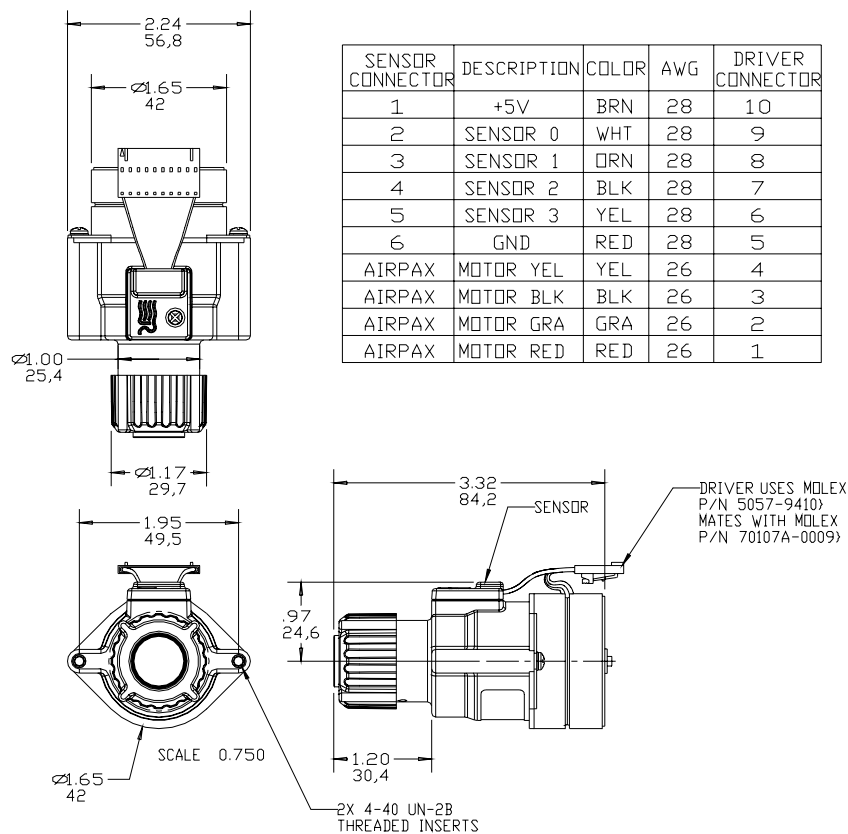
*Tubing Connection Detail and Dimensional Drawings on page 2*

# 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.