



TitanEX™

MLP777-224

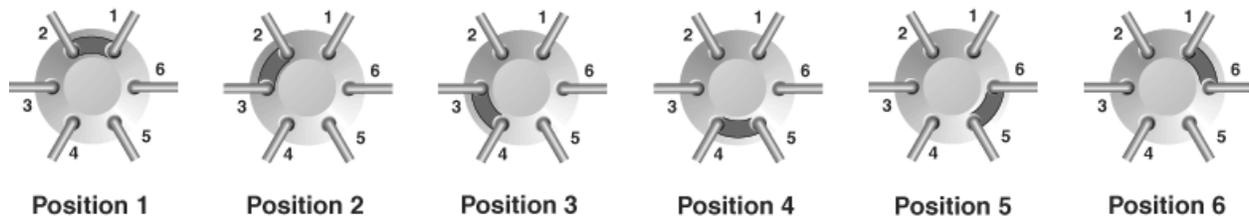
6-Position, 6-Port

Description

The MLP777-224 is a low pressure, 6-position, 6-port motorized switching 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 numbered 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" OD tubing directly into the valve

Flow Passage Diameters: 1.5-mm (0.060")

Volume in Flow Passages: *Stator*- 8.3 µL/hole, *Rotor Seal*- 14.9 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 ± 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

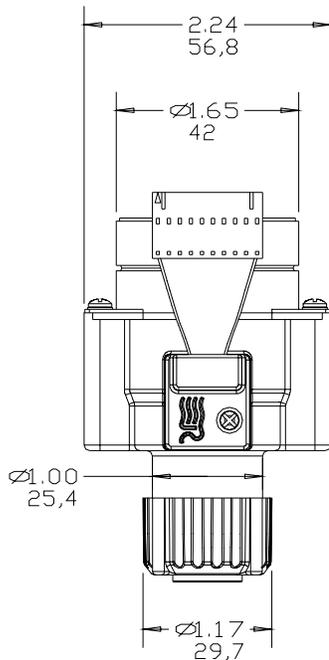
NOTE: Shipping, storing or operating this valve below 0°C with water in the fluid passages may cause failure of the sealing surfaces.

Dimensional Drawings on page 2

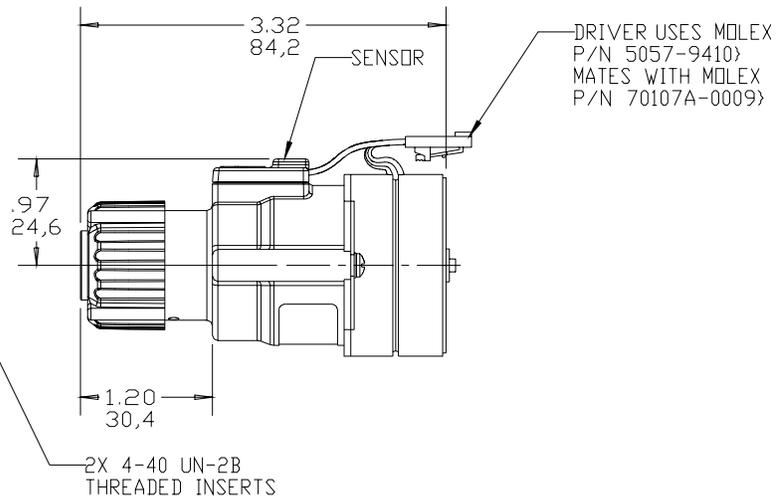
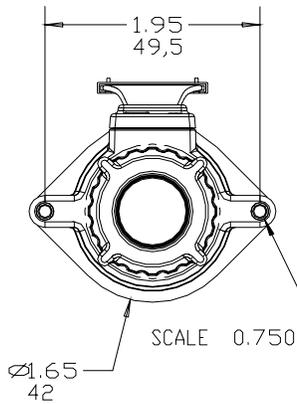
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Dimensional Drawings

Dimensions are in inches/millimeter



SENSOR CONNECTOR	DESCRIPTION	COLOR	AWG	DRIVER CONNECTOR
1	+5V	BRN	28	10
2	SENSOR 0	WHT	28	9
3	SENSOR 1	DRN	28	8
4	SENSOR 2	BLK	28	7
5	SENSOR 3	YEL	28	6
6	GND	RED	28	5
AIRPAX	MOTOR YEL	YEL	26	4
AIRPAX	MOTOR BLK	BLK	26	3
AIRPAX	MOTOR GRA	GRA	26	2
AIRPAX	MOTOR RED	RED	26	1



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.