



# TitanHP™

## MHP7970-500-4

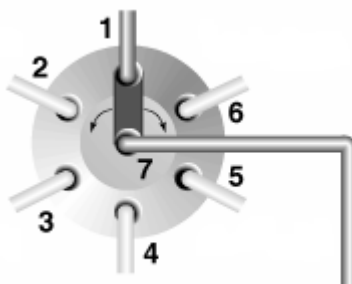
### 6-Position, 7-Port

#### *Description*

The MHP7970-500-4 is a DuraLife® II 6-position, 7-port motorized valve with a circuit board. This board is referred to as the Motor Driver/Valve Controller Board and is programmed for 4-line BCD control. The design of this valve provides a small footprint.

#### *Flow Diagram*

A schematic of the valve flow switching pattern is shown below. The numbered circles represent the ports in the valve stator. The dark groove represents the connecting passage in the rotor seal.



#### *Specifications*

**Liquid Contacts:** DuraLifeII

**Port Size:** Accepts 10-32 male threaded fittings

**Flow Passage Diameters:** *Stator-* 0.3-mm (0.012"), *Rotor Seal-* 0.25-mm (0.010").

**Port to Port Volume:** 415nL

**Maximum Pressure:** 41 MPa (414 bar, 6000 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

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

**NOTE:** DuraLife is not recommended for use with solutions containing formic acid.

*Dimensional Drawings on page 2*

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Dimensions are in inches/millimeters

