

# TitanHP™

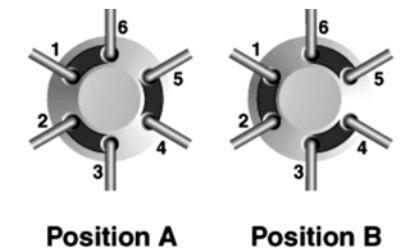
MHP9900-500-1 2-Position, 6-Port

## Description

The MHP9900-500-1 is a 2-position, 6-port motorized valve. This valve includes a circuit board. This board is referred to as the Motor Driver/Valve Controller Board and is programmed for 1-line level 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 and stator face assembly. The grooves represent the connecting passages in the rotor seal.



## Specifications

- › **Liquid Contacts:** PEEK
- › **Port Size:** Accepts 10-32 male threaded fittings
- › **Flow Passage Diameters:** *Stator*- 0.3-mm (0.012"), *Stator Face Seal*- 0.23-mm (0.009"), *Rotor Seal*- 0.25-mm (0.010").
- › **Port to Port Volume:** 660nL
- › **Maximum Pressure:** 35 MPa (345 bar, 5000 psi).
- › **Motor:** 5 ohm, spark-free, 7.5 degree stepper motor
- › **Actuation Time:** 100ms
- › **Communication:** 1-Line Level Logic
- › **Drive Board Power Supply Requirements:** 24 VDC  $\pm$  5% at 1 Amp max
- › **Quiescent Current:** 20mA
- › **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.**

### MHP9900-500-1 Dimensional Drawing

Dimensions are in inches [millimeters]

