



# TitanHP™

## MHP7920-500-3

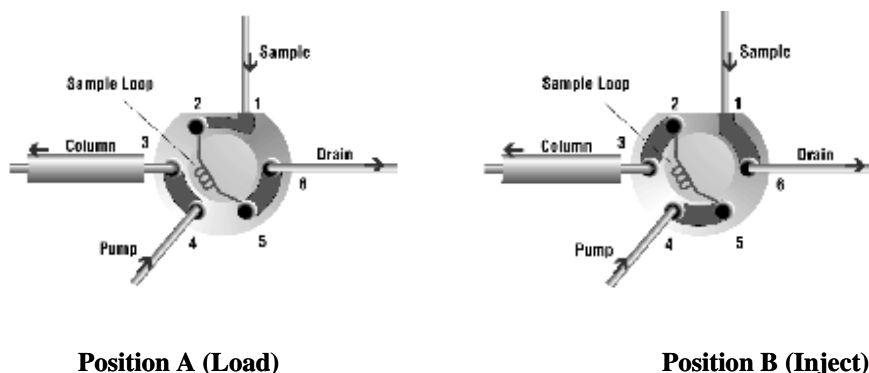
### 2-Position, 6-Port

#### Description

The MHP7920-500-3 is a 2-position, 6-port motorized valve with a vertical port and a circuit board. This board is referred to as the Motor Driver/Valve Controller Board and is programmed for Dual Pulse logic 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. The grooves represent the connecting passages in the rotor seal.



#### Specifications

**Liquid Contacts:** DuraLife®

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

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

**Port to Port Volume:** 445nL and 586nL with vertical port

**Maximum Pressure:** 41 MPa (413 bar, 6000 psi)

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

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

**Actuation Time:** 100ms

**Communication:** Dual Pulse logic control

**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.

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

**Dimensional Drawings on page 2**

**MHP7920-500-3**

*Dimensions are in inches/millimeters*

