



TitanHP™

MHP7920-500-1

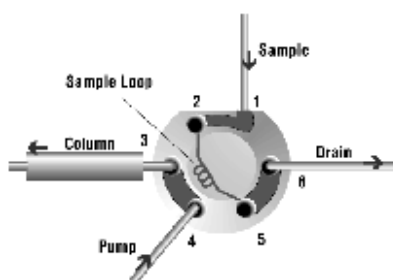
2-Position, 6-Port

Description

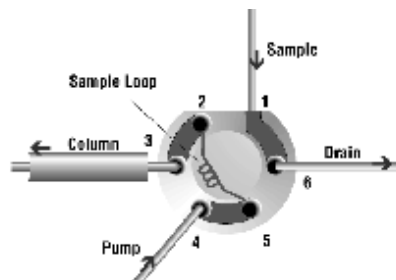
The MHP7920-500-1 is a 2-position, 6-port motorized valve with a vertical port and a circuit board. This board is referred to as the Motor Driver/Valve Controller Board and is programmed for 1-line level logic control. The design of this valve provides a small footprint.

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.



Position A (Load)



Position B (Inject)

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: 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.

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

Dimensional Drawings on page 2

MHP7920-500-1

Page 1 of 2
2321294C
09/04/08

Dimensions are in inches/millimeters

