

# MX Series II<sup>TM</sup>

## MXT715-000 2-Position, 6-port

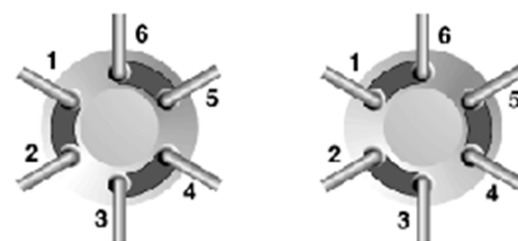
### Description

The MXT715-000 is an Ultralife<sup>TM</sup> 2-position, 6-port motorized valve with patented MBB<sup>®</sup> “Make-Before-Break” architecture. The MBB design insures that flow is not interrupted when the injector is switched between LOAD and INJECT when a loop is installed between ports 1 and 4. The small compact stand-alone unit is typically used as a switching and/or injection valve.

### Flow Diagram

The flow switching pattern of the valve is shown to the right. The numbered circles represent the ports in the valve stator and stator face assembly. The dark grooves represent the connecting passages in the rotor seal. Please note that this is a representation of the flow path and may not show the true position of the ports and grooves. To make use of the MBB feature for an injection style valve, a loop must be installed between ports 1 and 4, the high-pressure pump should be plumbed in port 5, and port 6 should be connected to the column.

Note: stators should be rotated 90° CW to be consistent with stator orientation on MX II module.



Position 1

Position 2

### Specifications

- › **Liquid Contacts:** Ultralife: coated stainless steel stator and advanced PEEK-based rotor seal (RPC-10)
- › **Port Size:** Accepts 10-32 male threaded fittings
- › **Flow Passage Diameters:** *Stator:* 0.28 mm (0.011"), *Rotor Seal:* 0.3 mm (0.012")
- › **Volume in Flow Passages:** *Stator:* 0.1 µL/hole, *Rotor Seal:* 0.1 µL/groove
- › **Maximum Pressure:** 15,000 psi (103 MPa, 1,034 bar)
- › **Communication:** 1-line level logic, USB, or I<sup>2</sup>C (default) or RS-232 (factory set)
- › **Electrical Requirements:** 24 VDC, 1.88 A
- › **Cabling:** Connected cables should not exceed 3 meters in length
- › **RoHS Compliant:** Yes

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07/08/2016

### Supplied With

- › High pressure stainless steel fittings sets (6)
- › Adhesive feet (4)
- › Universal power supply
- › Power cord (multi-national cords available)
- › Interface cable
- › USB cable

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

### MXT715-000 Dimensional Drawing

Dimensions are in inches [millimeters]

