

MX Series IITM

MXX778-605 10-Position, 11-Port

Description

The MXX778-605 is a low pressure, 10-position, 11-port motorized valve. A unique patented* tubing connection system eliminates the need for threaded nuts and ferrules for tubing retention and liquid sealing. The small compact stand-alone unit is typically used as a selection valve.

Flow Diagram

The flow switching pattern of the valve is shown below. The circles represent the ports in the valve ram and stator. The dark slot represents the connecting passage in the rotor seal.



Specifications

- › **Liquid Contacts:** RPC-7
- › **Port Size:** Accepts 1/16" or 1/8" OD tubing directly into the valve (see diagram on page 2)
- › **Flow Passage Diameters:** 1.0 mm (0.040")
- › **Volume in Flow Passages:** *Stator- Center Port* - 3.1 µL/hole, *Peripheral Ports* - 5.1 µL/hole, *Rotor Seal* - 3.4 µL/groove
- › **Maximum Pressure:** 0.9 MPa (9 bar, 125 psi)
- › **Communication:** 4-line BCD, USB, or I²C (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

* US Patent 7,014,222 dated 03/21/2006

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Supplied With

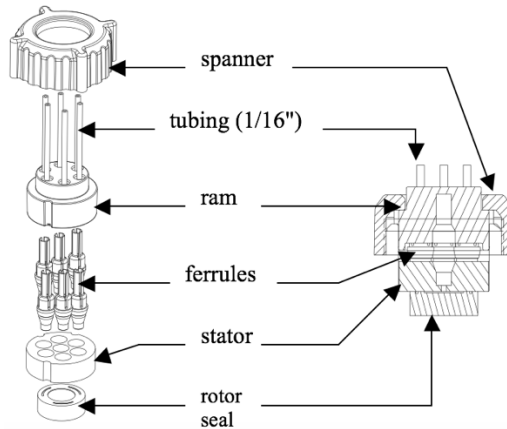
- › 1/16" TitanEX ferrules (11)
- › 1/8" TitanEX ferrules (11)
- › Adhesive feet (4)
- › Universal power supply
- › Power cord (multi-national cords available)
- › Jumper wires (3)
- › Interface cable
- › USB cable

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

Tubing Connection Detail

Exploded View

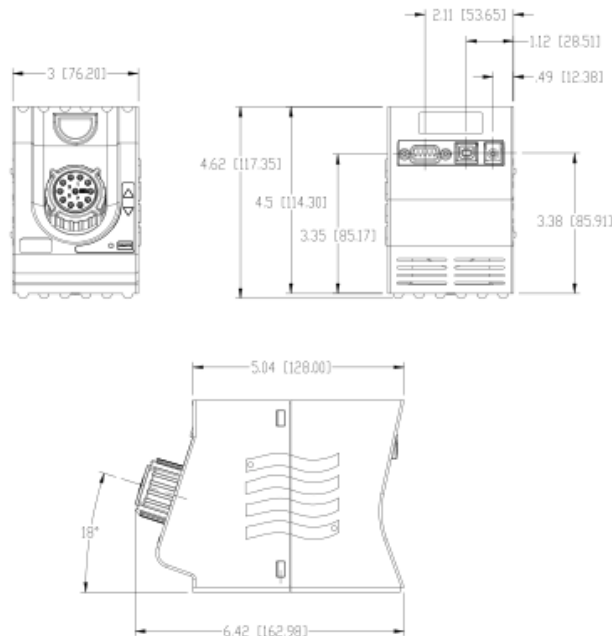
* This model includes 1/16" O-rings at the base of the stator ports. These must be removed for use with 1/8" ferrules and tubing.



Cross-Sectional View

MXX778-605 Dimensional Drawing

Dimensions are in inches [millimeter]



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