

RV700-104

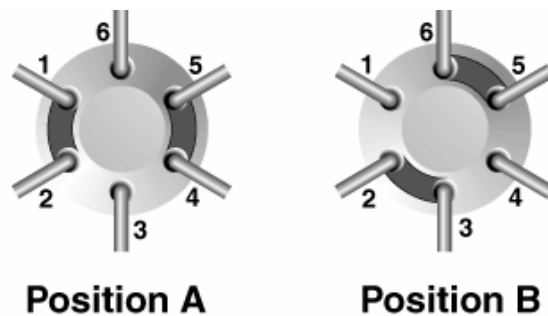
2-Position, 6-Port Three-Way

Description

The RV700-104 is a stainless steel 2-position, 6-port three-way motorized valve.

Flow Diagram

The double three-way switching pattern of the valve is shown below. The six circles represent the ports in the valve stator. The dark slots represent the connecting passages in the rotor seal. The valve rotates 60° between positions A and B.



Specifications

Liquid Contacts: Stainless steel, PEEK, and alumina ceramic

Port Size: Accepts 10-32 male threaded fittings

Flow Passage Diameters: 0.4-mm (.015") and 0.5mm (.018")

Volume in Flow Passages: Stator (includes the stator face assembly)- 0.7-μL/hole,

Rotor Seal-0.3-μL/groove

Maximum Pressure: 35 MPa, 345 bar, 5000 psi

Motor: Power train design includes a stepper motor and planetary gearing system

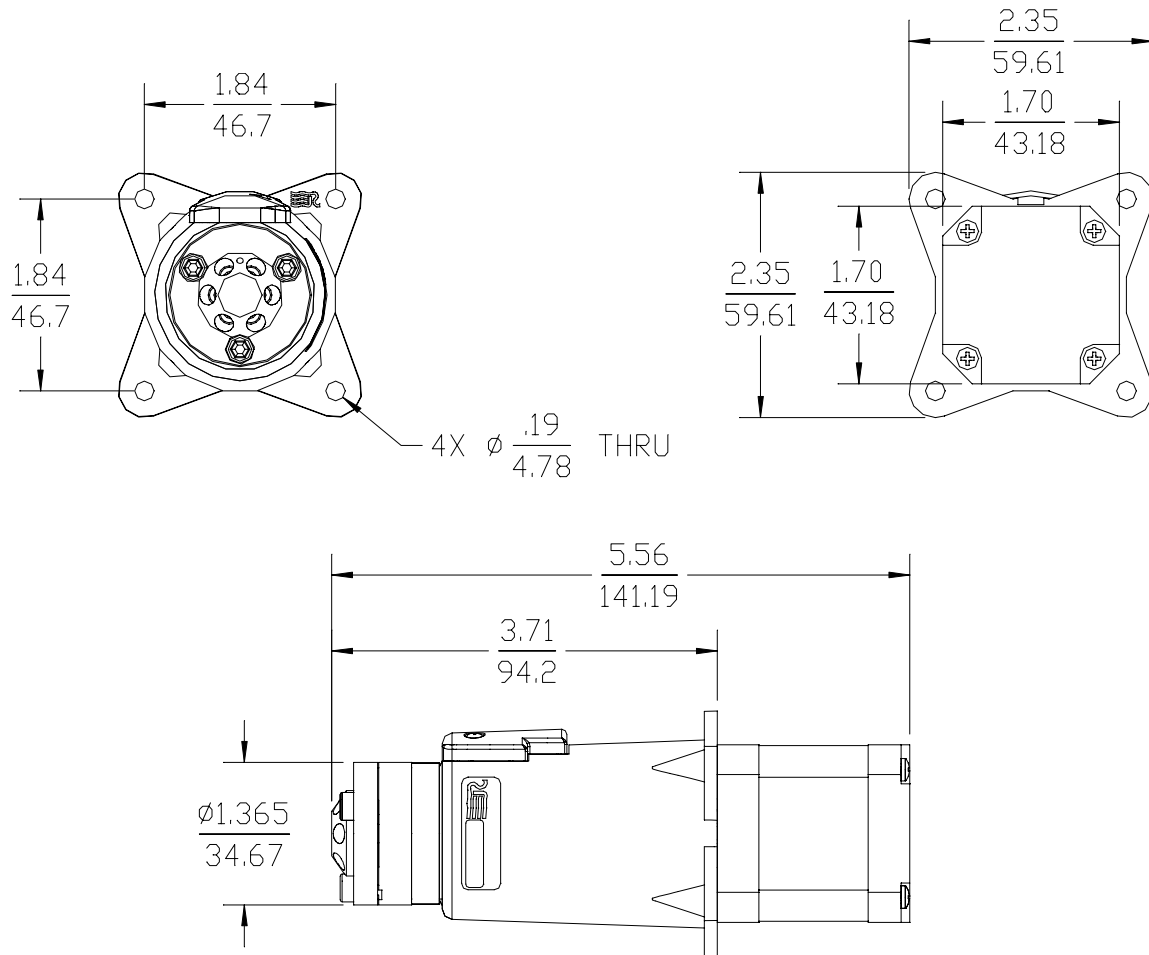
Motor Power Requirements: 24-35 VDC at 2.0 amps

Position Sensors: Optoelectric position sensors with encoder wheels

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

Dimensional Drawings on page 2

Dimensions are in inches/millimeters



ENCODER POSITION
FEEDBACK CONNECTOR
(MOLEX 50-57-9406)

+5VDC	1
SENSE 0	2
SENSE 1	3
SENSE 2	4
SENSE 3	5
GND	6

