

RV700-102 & RV750-102

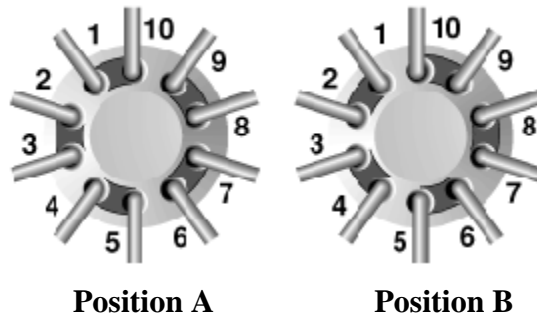
2-Position, 10-Port

Description

The RV700-102 is a stainless steel 2-position, 10-port motorized valve. The RV750-102 is the PEEK version.

Flow Diagram

The flow switching pattern of the valve is shown below. The numbered circles represent the ports in the valve stator and stator face assembly. The dark slots represent the connecting passages in the rotor seal.



Specifications

Liquid Contacts: RV700-102, Stainless steel and PEEK. RV750-102, PEEK

Port Size: Accepts 10-32 male threaded fittings

Flow Passage Diameters: 0.5-mm (.018") and 0.6-mm (.024")

Volume in Flow Passages: *Stator* (includes stator face assembly)- 2.2μL/hole

Rotor Seal- 0.4μL/groove

Maximum Pressure: 35 MPa, 345 bar, 5000 psi

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

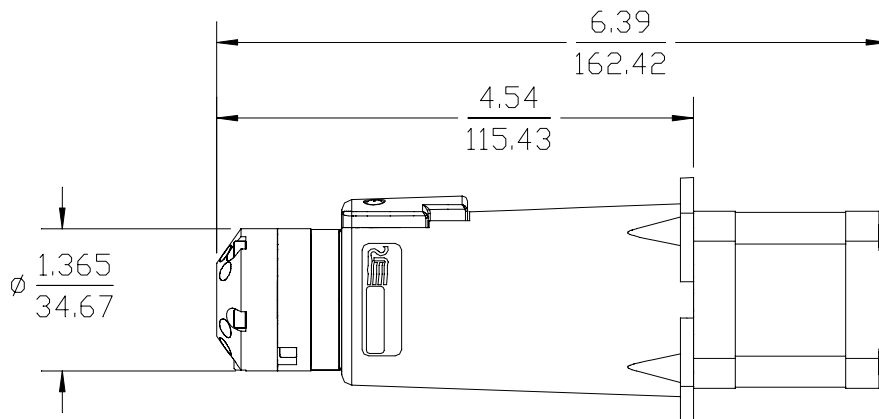
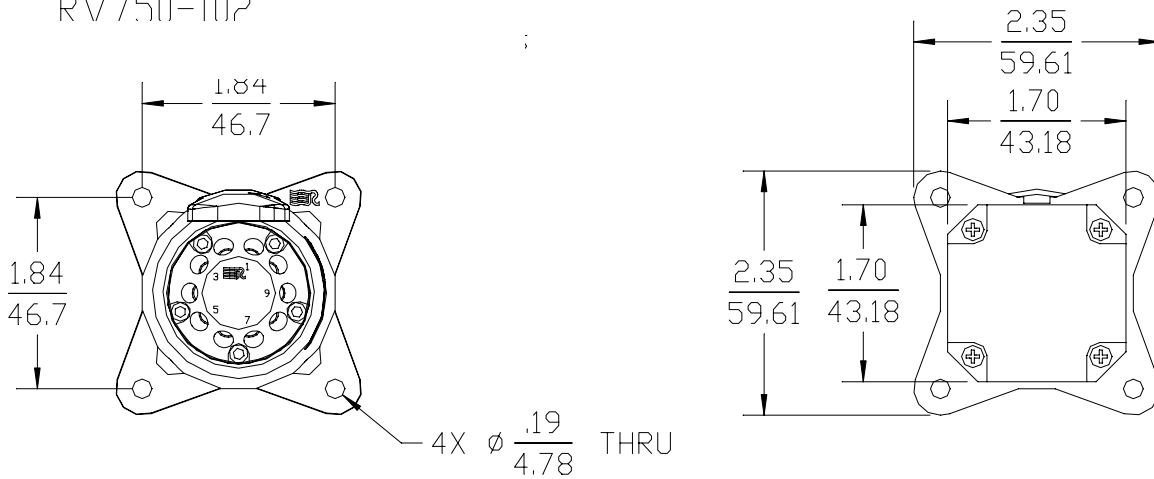
Motor Power Requirements: 24-35 VDC at 2.0 amps

Position Sensors: Optoelectric position sensors with encoder wheels

Dimensional Drawings on page 2

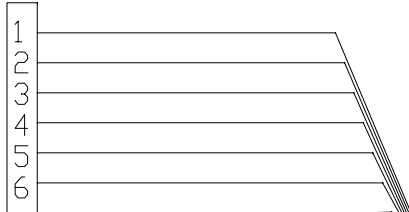
Dimensions are in inches/millimeters

RV750-102

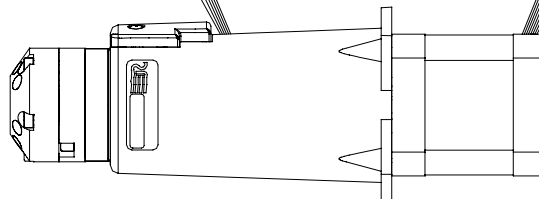


ENCODER POSITION
FEEDBACK CONNECTOR
(MOLEX 50-57-9406)

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



ORANGE	1	A+
BLACK/WHITE	2	A+
RED	3	B+
YELLOW/WHITE	4	B+
BLACK	5	A-
ORANGE/WHITE	6	A-
YELLOW	7	B-
RED/WHITE	8	B-



MOTOR CONTROLLER
LINES CONNECTOR
(MOLEX 22-01-2085)