

RV500-100 & RV550-100

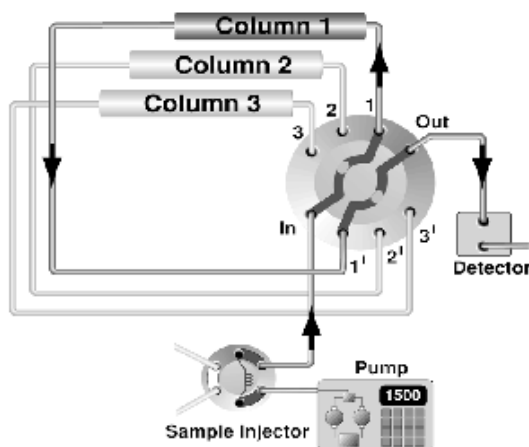
Three-Position Selector Valve

Description

The RV500-100 is a stainless steel 3-position, 8-port motorized selection valve. The RV550-100 is the PEEK version. The design includes a unique patented TeleFLO® architecture that insures no unswept volume. This valve can be used as a column selection valve. Used as a column selector, a sample injector is connected to the IN port and a detector is connected to the OUT port. When the selector is in position 1, the column plumbed to ports 1 and 1' is in line with the injector and detector.

Flow Diagram

A schematic of the flow switching pattern of the valve, used as a column selector, is shown below. The valve is shown connected to a detector and an injector. In reference to the RV500-100 & RV550-100, the numbers (1-3) and the In/Out call-outs indicate the locations of the stator ports. The dark slots represent the connecting passages in the rotor seal.



Specifications

Liquid Contacts: *RV500-100*, Stainless steel and PEEK. *RV550-100*, PEEK

Port Size: Accepts 10-32 male threaded fittings

Flow Passage Diameters: 0.4-mm (.015") and 0.6mm (.024")

Maximum Pressure: 35 MPa, 345 bar, 5000 psi

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

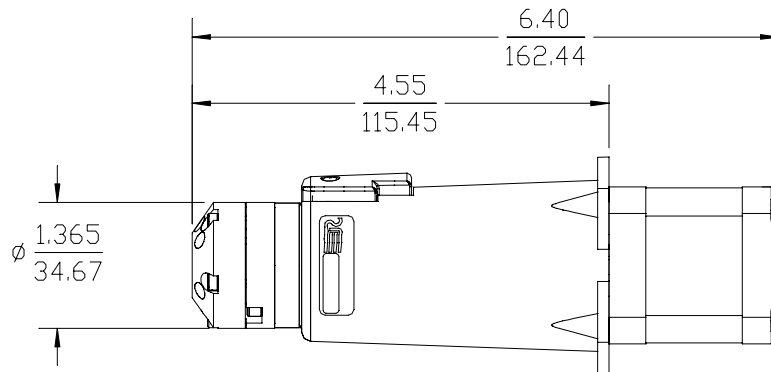
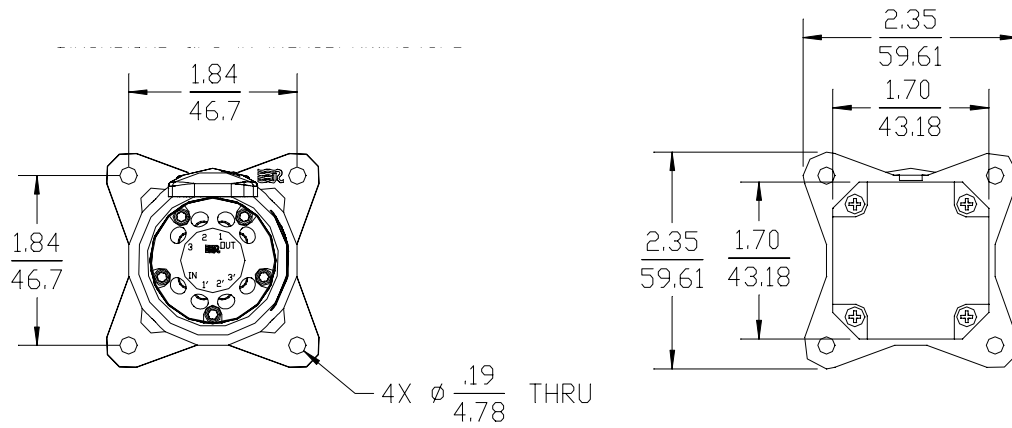
Motor Power Requirements: 24-35 VDC at 2.0 amps

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 inches/millimeters



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

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

1
2
3
4
5
6

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)

