

RV500-104 & RV550-104

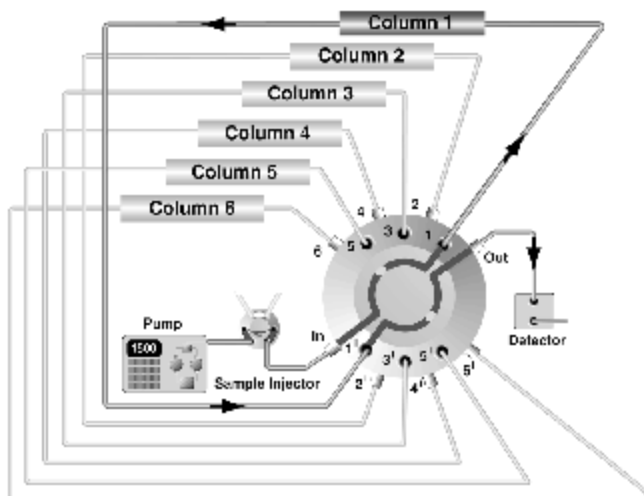
Six-Position Selector Valve

Description

The RV500-104 is a stainless steel 6-position, 14-port motorized selection valve. The RV550-104 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, when used as a column selector, is shown below. The valve is shown connected to a detector and an injector. In reference to the RV500-104 and RV550-104 the numbers (column inlets 1-6, column outlets 1"-6") 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: *RV500-104*, Stainless steel and PEEK. *RV550-104*, PEEK

Port Size: Accepts 10-32 male threaded fittings.

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

Maximum Pressure: 35 MPa, 345 bar, 5000 psi.

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

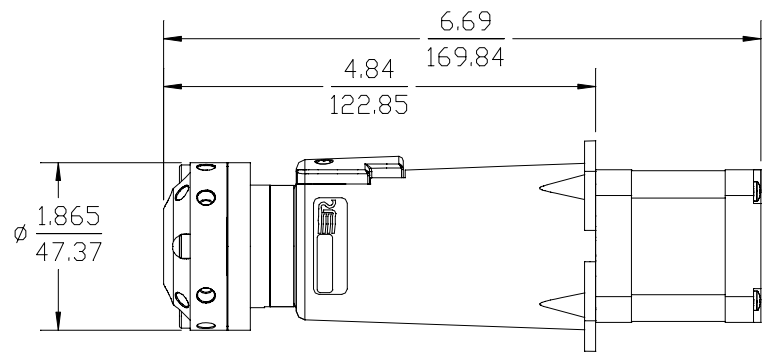
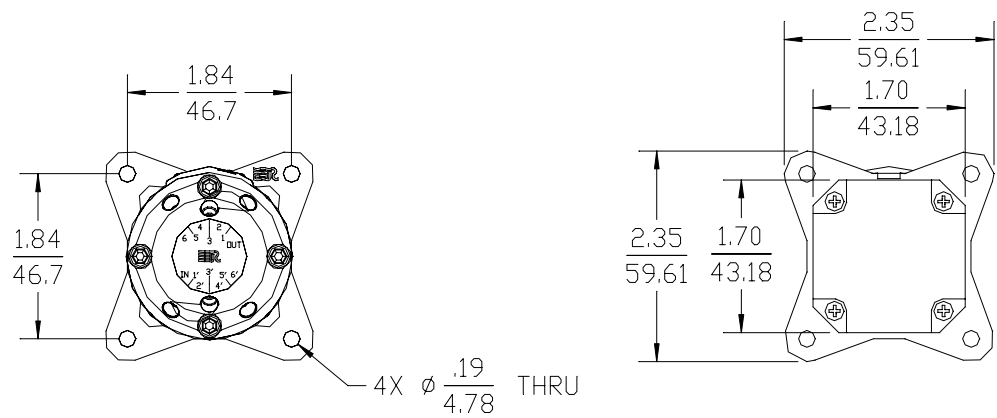
Motor Power Requirements: 24-35 VDC at 2.0 amp

Position Sensors: Optoelectric position sensors with encoder wheels.

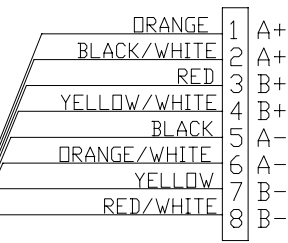
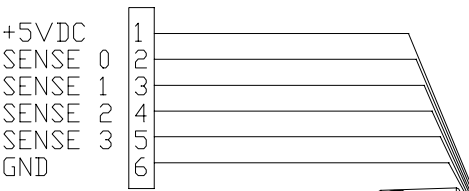
NOTE: Shipping, storing or operating this valve below 0°C with water in the fluid passages may cause failure of the sealing surfaces.

Dimensional Drawings on page 2

Dimensions are in inches/millimeters



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



MOTOR CONTROLLER
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