

RV700-114

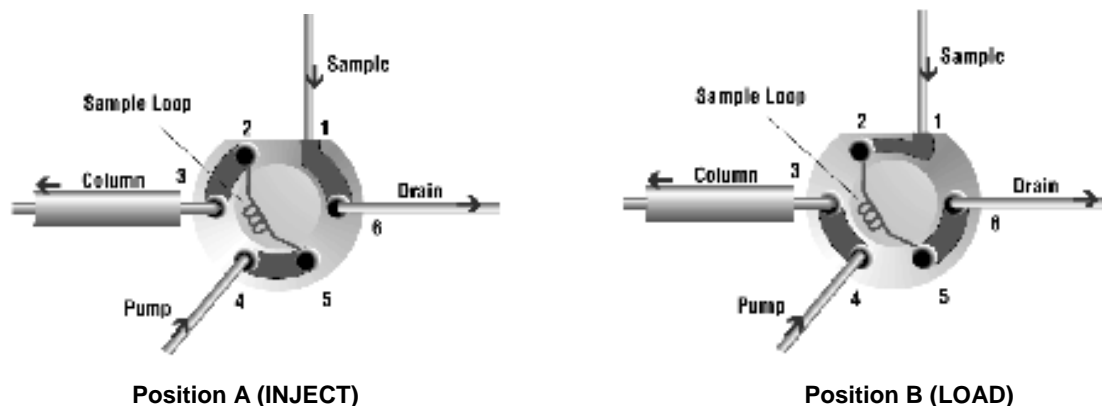
2-Position, 6-Port

Description

The RV700-114 is a stainless steel 2-position, 6-port motorized valve. The stator has one vertical (90°) port for sample introduction. A 20- μ L-sample loop is connected between ports 2 and 5.

Flow Diagram

A schematic of the valve flow switching pattern is shown below. The numbered circles represent the ports in the valve stator and stator face assembly. The slots represent the connecting passages in the rotor seal. The sample is loaded into the vertical port (#1).



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 0.5-mm (.018").

Volume in Flow Passages: *Stator* (includes stator face assembly)- 1.8- μ L (vertical port) 0.8- μ L (other ports), *Rotor Seal*- 0.3- μ L

Maximum Pressure: 35 MPa, 345 bar, 5000 psi

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

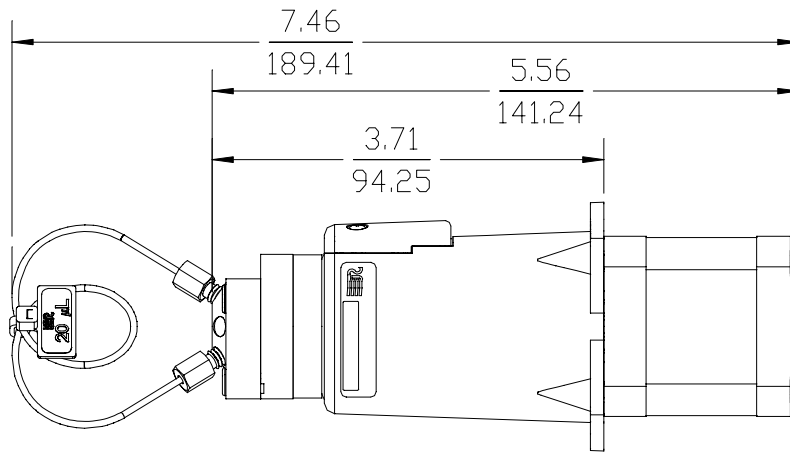
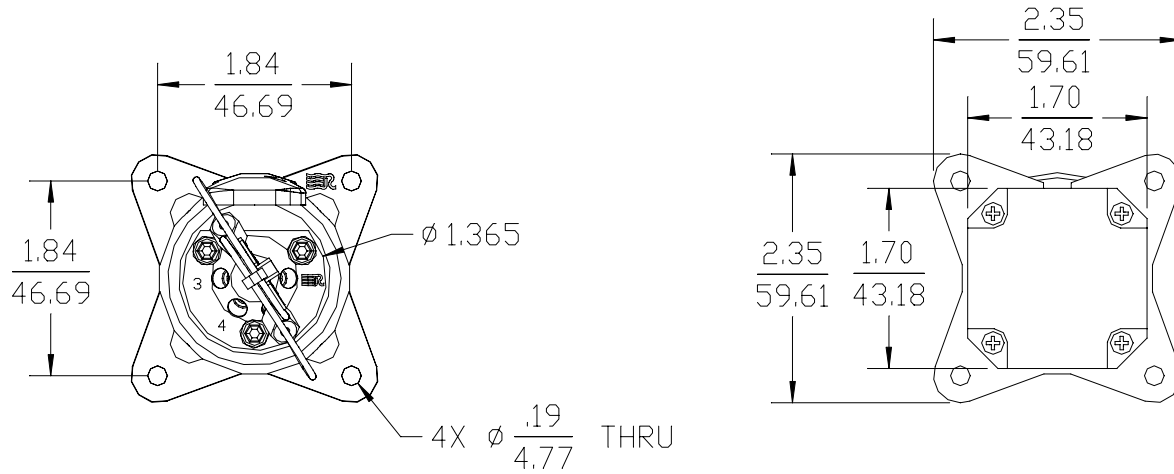
Motor Power Requirements: 24-35 VDC at 2.0 amp

Position Sensors: Optoelectric position sensors with encoder wheel

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

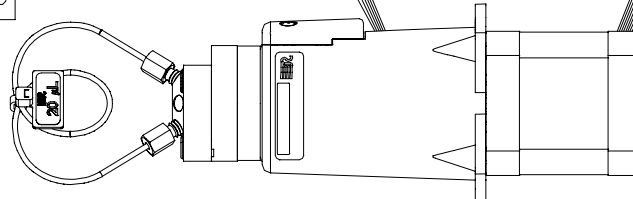
Dimensions are in inches/millimeters



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

+5VDC
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)