



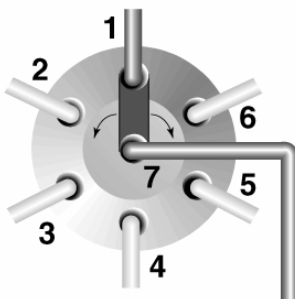
RV700-105 and RV750-105 6-Position, 7-Port Selector

Description

The RV700-105 is a stainless steel 6-position, 7-port motorized valve. The RV750-105 is the PEEK version.

Flow Diagram

A schematic of the valve flow switching pattern is shown below. The numbered circles represent the ports in the valve stator. The dark groove represents the connecting passage in the rotor seal.



Specifications

Liquid Contacts: *RV700-105:* Stainless Steel and PEEK *RV750-105:* PEEK

Port Size: Accepts 10-32 male threaded fittings

Flow Passage Diameters: *Stator*-0.38-mm (0.015"), *Rotor Seal*- 0.30-mm (0.012")

Volume in Flow Passages: *Stator (includes stator face assembly)*- 0.9uL/hole,

Rotor Seal- 0.1uL/groove

Maximum Pressure: 35 MPa (345 bar, 5000 psi)

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

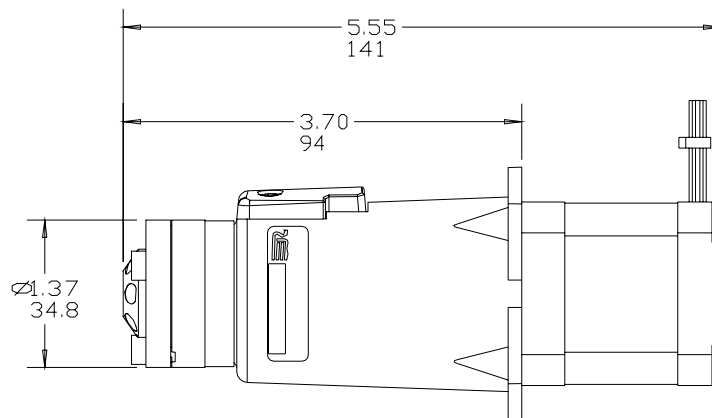
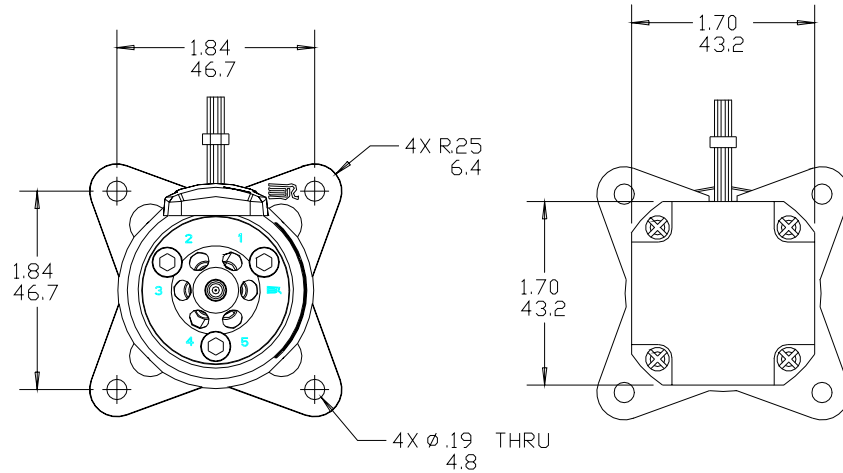
Motor Power Requirements: 24-35 VDC at 2.0 amps

Position Sensors: Optoelectric position sensors with encoder wheels

Dimensional Drawings on page 2

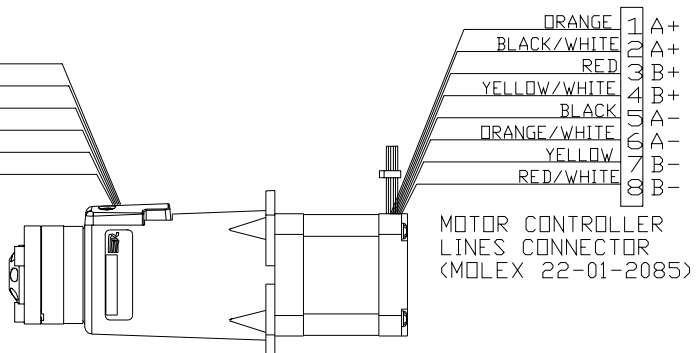
RV700-105/RV750-105

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



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)