SV-07 Selector Valve

- Support a variety of flow path collocation which meets the needs of different customers.
- Runze patented product, sapphire valve rotor and stator, which resist to corrosion, high-pressure, high-temperature and high wear resistance, biocompatible and suitable for a variety of special media
- Supports multiple communication: RS232/RS485/CAN bus
- High efficiency and maintenance-free
- Small footprint suits limited spaces.
- Widely used in environmental analysis instruments, laboratory analyzers, medical analysis equipment, and chromatographic analyzers, etc.

QHF-SV07 - X - S - T10 - K1.2 - S

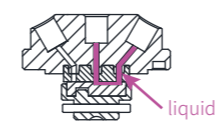Model No. | Valve type | Small low voltage | Configuration | Orifice | Sapphire

①	
T6	6-port
T8	8-port
T10	10-port
T12	12-port
T16	16-port

②	
K1.0	Orifice 1.0mm
K1.2	Orifice 1.2mm
K3.0	Orifice 3.0mm

only 6/8 ports support 3.mm orifice

Technical Parameter

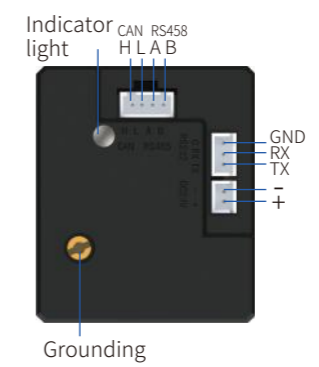| Configuration	6/8/10-port	12-port	16-port
Flow Passage Diameters	1.2mm	1.0mm	1.0mm
Dead Volume	Port to Port 27.5µl Rotor Slot Volume 5.41µl	Port to Port 22.43µl Rotor Slot Volume 6.08µl	Port to Port 33.68µl Rotor Slot Volume 10.4µl
Wetted material	PCTFE Valve head、Sapphire rotor and stator		
Pressure rating	0-0.3Mpa (air) / 0-1.6Mpa (water)		
Origin detection	Auto reset to initial position when powered on (this function can be opened or closed)		
Liquid temperature	0-150℃		
Connection	1/4-28UNF		
Replaceable parts	Stator replaceable, sealed rotor irreplaceable		
Transposition	Random start to any specific port		
Driver	Non-optional		
Valve drive	≤2s/circle	≤2s/circle	≤3.3s/circle
Baud rate	RS232/RS485: 9600bps, 19200bps, 38400bps, 57600bps, 115200bps CAN: 100Kbps, 200Kbps, 500Kbps, 1Mbps		
Address & Parameter setting	Via communication		
Power supply	DC24V/3A		
Power	25W		
Operating temperature	-10℃~+50℃		
Operating humidity	<80% relative humidity, non-condensing		
Dimension (L*W*H)	60*51*150mm	60*51*160.5mm	60*51*179.5mm
Net Weight	0.73kg	0.86kg	1.02kg

Port-to-Port Volume

liquid

Rotor Slot Volume

liquid   liquid

Driver Port

Indicator light   CAN RS458
H L A B

GND
RX
TX
-
+

Grounding
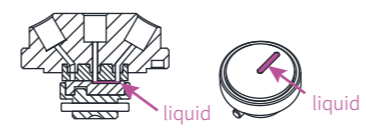
Port	Description
+	DC24V Positive
-	DC24V Negative
TX	RS232 Data Input
RX	RS232 Data Output
GND	GND
H	CANH
L	CANL
A	RS485A
B	RS485B

Flow Configuration

6-port   8-port   10-port   12-port   16-port
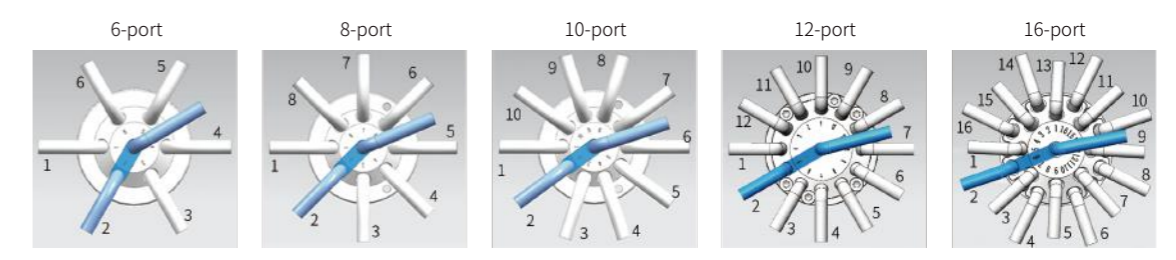
1. Center port is public port, valve switch to specific port by programming control
2. Wetted material - PCTFE valve head and sapphire valve rotor and stator, non-metal, anti-corrosive, anti-high temperature, wear resistance
3. Flow configuration - 6/8/10/12/16 port and orifice 1.0/1.2mm to meet different applications
4. Reset position - SV-07 valve resets by CCW (non-changeable), rotor stays between port 1 and maximum port, and the public port disconnected with any port when valve at reset status
5. OEM service - RUNZE supports special flow path design and customize, and its flow path configuration can meet the most common applications. RUZNE already declared the patent of a typical cross-contamination-free flow path solution, widely used in various analysis industries, and can provide overall flow path solutions for different needs of customers

Dimension (Unit: mm)

150
124
60

160.5
130
60
12-port

179.5
144
60
16-port

51
38
4-M3↧17.4
Mounting hole
60
42.5
6-port   8-port

51
38
4-M3↧17.4
Mounting hole
60
42.5
12-port

51
38
4-M3↧17.4
Mounting hole
60
42.5
16-port
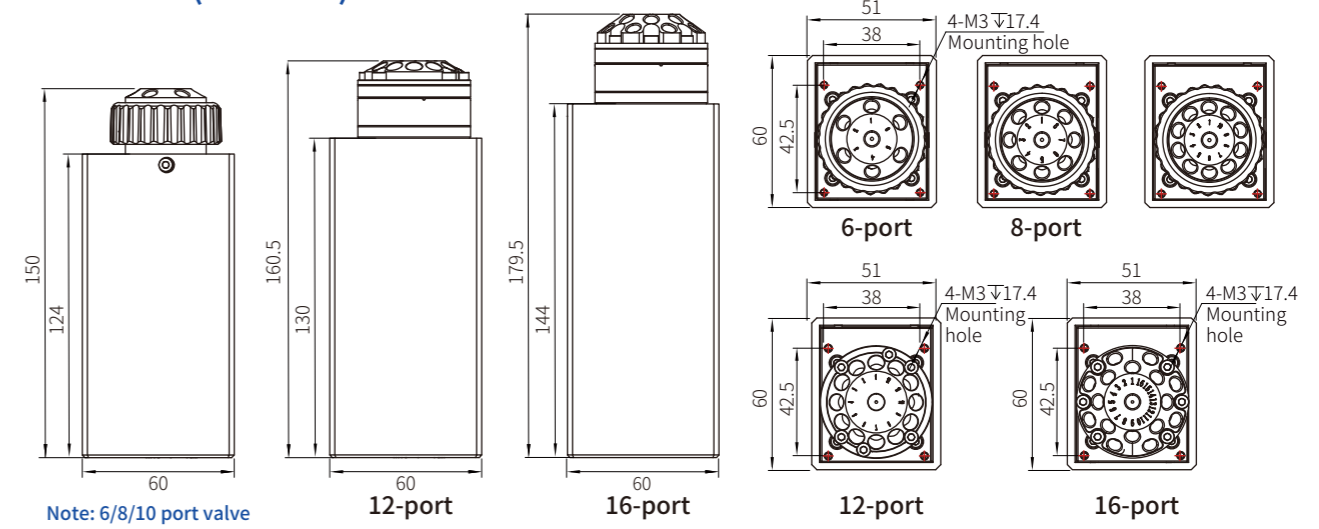
Note: 6/8/10 port valve shares the same dimension