Stepper-Controlled Proportional Valve

SCPV-1-3C

Utilizing the industry's most robust and powerful linear actuator, Clippard's high flow SCPV series stepper-controlled proportional valve is ideal for critical medical, analytical, and industrial automation applications. The SCPV is an excellent choice where high resolution, high flow, low hysteresis, and variable control of inert gases is required. In addition, the simple design but unique modifications possible allow for custom flow curves more specific to your application needs.

2D File	2D File
Accessories	Bi-Polar Stepper Motor Driver: SCPVD-1, Replacement Cable: 25978
Applications Form	Applications Form
Connection	Connector/Wiring Harness
Data Sheet	Valve Data Sheet, Driver Data Sheet
Driver	Bipolar Chopper Drive Required
Flow Resolution	0.7 l/min per step
Length	3.7
Linearity	<2.5% of full scale
Logic Input Voltage	3.3V or 5V Jumper Selectable
Material, Lubricant	Magnalube-G (PTFE) (Std.)
Material, Seals	FKM standard, others available
Material, Seat	Acetal (Std.)
Material, Wetted	Stainless Steel, Aluminum, Brass, Acetal and FKM
Max PSI	100 psig
Max. Flow	0 to 280 l/min
Medium	Air or compatible gases
Mount	Cartridge
Needle	3.5°
Number of Ports	2
Operating Instructions	Operating Instructions
Operating Pressure	Vac to 100 psig (7 bar)
Operating Temperature Range	32 to 184°F
Operating Voltage	7 to 35 VDC
Power Consumption	3.85 watts nom
Product Line Brochure	Proportional Valves
Repeatability	<0.5% of Full Scale
Response Time	0.95 seconds fully-open to fully-closed
Unit	Imperial
Wattage	3.85 watts nominal only during adjustment. Zero power consumption to maintain position.
Weight (lbs.)	0.5000

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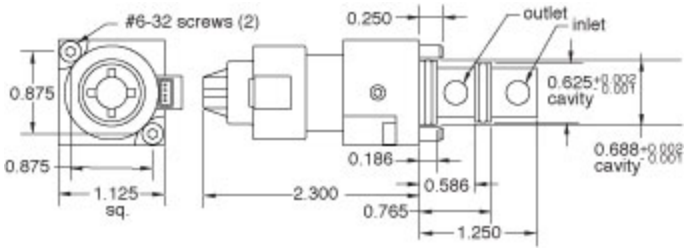
OUT


#6-32 screws (2)
0.250
outlet
inlet
0.875
0.625 +0.002 -0.001
cavity
0.688 +0.002 -0.001
cavity
0.875
1.125
sq.
0.186
2.300
0.586
0.765
1.250