



## 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.

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

