

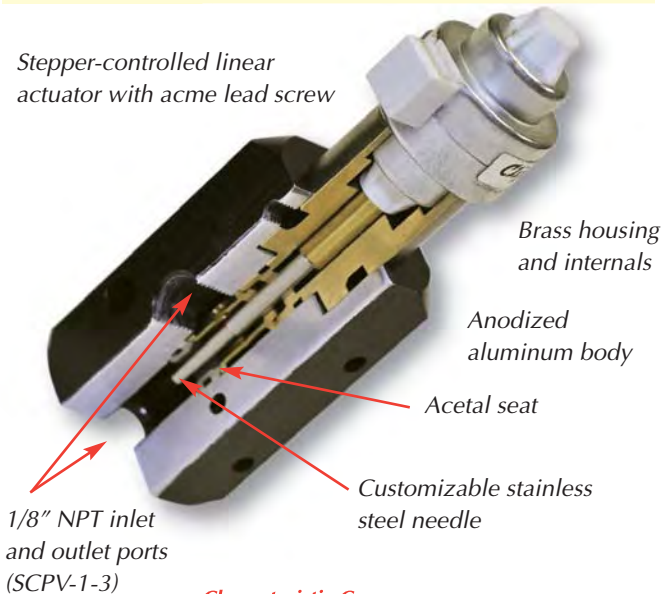
# EXPANDED! 2-WAY STEPPER-CONTROLLED PROPORTIONAL VALVES



## Features

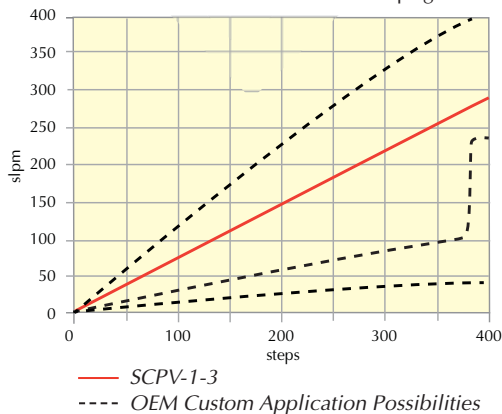
- <2% hysteresis
- Excellent Linearity — <2.5% of full-scale
- 2 ms reaction time
- Millions of cycles
- Holds position for power savings or at loss of power

Stepper-controlled linear actuator with acme lead screw



### Characteristic Curve

Flow Rate for SCPV-1-3 @ 100 psig



Utilizing the industry's most robust and powerful linear actuator, the high flow stepper-controlled proportional valve outperforms the competition in performance and durability.

This valve is ideal in critical applications such as gas delivery, medical, analytical, and industrial automation requiring high resolution, high flow, and low hysteresis. In addition, the unique design allows for custom flow profiles when required.

**Medium:** Air and compatible gases

**Typical Cycle Time for Full Travel:** 0.95 seconds at 100% duty cycle; 0.55 seconds at 25% duty cycle (full open to full close or full close to full open)

**Wetted Material:** Stainless steel, aluminum, brass, Acetal and FKM\*

**Pressure Range:** Vac to 100 psig\*

**Flow Range:** 0 to 280 slpm (special configurations over 500 slpm available, consult factory)\*

**Flow Resolution:** 0.7 slpm per step

**Position Resolution:** 0.001" per step

**Temperature Range:** 32 to 184°F

**Driver:** Bipolar chopper drive required

**Needle:** 3.5°

**Supply Voltage to Motor:** 5 VDC

**Response Time:** 0.95 sec. fully-open to fully-closed

**Mounting:** In-line, manifold or cartridge

**Power Consumption:** 3.85 watts nominal only during adjustment. Zero power consumption to maintain position.

**Seals:** FKM standard. Others available.

**Option:** Rubber seat (add "-R" suffix)

\* This product is highly modifiable for OEM applications including alternate body materials, flow profiles, cartridge styles, manifold mounting, etc. Please consult factory.

Clippard has successfully produced special configurations of the SCPV with flows over 700 slpm at 100 psig. Please consult factory with your specific requirements.

Part No.	Description
<a href="#">SCPV-1-3</a>	Proportional Valve, In-Line
<a href="#">SCPV-1-3M</a>	Proportional Valve, Manifold
<a href="#">SCPV-1-3C</a>	Proportional Valve, Cartridge



For further information, visit [www.clippard.com/scpv](http://www.clippard.com/scpv)

