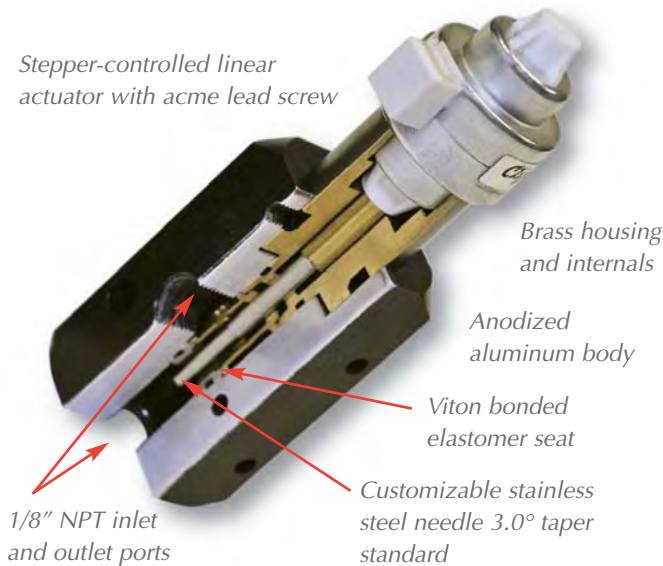




# NEW! 2-WAY STEPPER-CONTROLLED PROPORTIONAL VALVE

Stepper-controlled linear actuator with acme lead screw



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

The bonded elastomeric seat achieves excellent sealing ensuring smooth opening and fine control at low flow for millions of cycles.

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.

## 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

**Medium:** Compatible gases and liquids

**Configuration:** 1 1/8" square body with 1/8" NPT ports

**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, and FKM\*

**Pressure Range:** Vac to 100 psig (Vac to 7 bar)\*

**Flow Range:** 0 to 300 slpm\*

**Flow Resolution:** 0.56 slpm per step

**Position Resolution:** 0.001" per step

**Temperature Range:** 32 to 184°F (0 to 84°C)

**Driver:** Bipolar chopper drive required

**Supply Voltage:** 12 to 40 VDC (40 VDC optional)

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

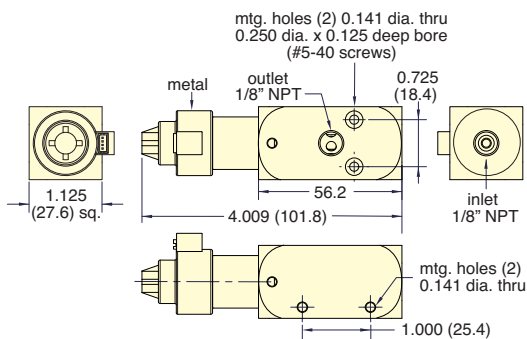
**Mounting:** In-line

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

**Ports:** 1/8" NPT. Others available upon request.

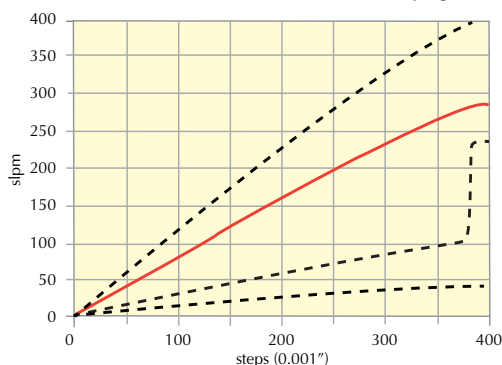
**Seals:** FKM standard. Others available.

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



## Characteristic Curve

Flow Rate for SCPV-1-3 @ 100 psig



Part No.	Description
SCPV-1-3	Proportional Valve, 3° Needle

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