Hi-Flow Proportional Valve Control Data (SCPV-1-3)

A **Bipolar Chopper Drive** (not included) is a power-efficient method of using current to drive a stepping motor to obtain high stepping rates. The chopper gets its name from the technique of rapidly turning the output voltage on and off (chopping) to control motor current.

Stepper motors require some external electrical components in order to operate. These components typically include a power supply, logic sequencer switching components and a clock pulse source to determine the step rate. Many commercially available drives have integrated these components into a complete package. See www.clippard.com/scpv for more information.

Stepping Sequence

Bipolar Black (A-) N S Red (A+) Green (B-) Blue (B+ 08 CW Rotation ← **Bipolar** Q5-Q8 Q2-Q3 Q1-Q4 Q6-Q7 Step 1 On Off On Off 2 Off On On Off 3 Off Off On On 4 On Off Off On T On Off On 1 Off

Programmable

Logic Controller

Salient Characteristics Linear Actuator, 1" (25 mm)

Wiring:	Bipolar
Current/Phase:	385 mA
Motor Voltage:	5 VDC
Resistance/Phase:	13 ohms
Inductance/Phase:	8.08 mH
Power Consumption:	3.85 Watts
Rotor Inertia:	1.07 gcm2
Temperature Rise:	135°F (75°C)
Insulation Resistance:	20M ohms









Clippard Instrument Laboratory, Inc. 513-521-4261 • www.clippard.com/scpv