

SV500

Precision Dispensing Pump Solenoid Operated, Piston Driven



Valcor Engineering Corporation



DESCRIPTION

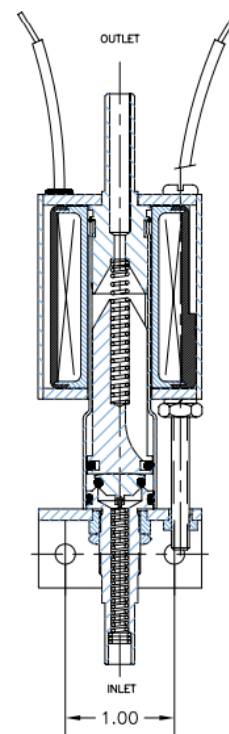
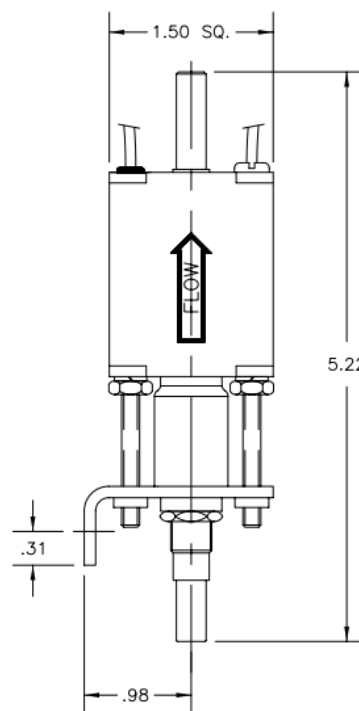
The SV500 series Precision Dispensing Pumps are compact piston operated, variable displacement metering pumps designed to dispense precise volumes of liquid. The dispense volume is set using the external adjustment. Cycling the pump on and off creates a single, discrete dispense volume. Multiple cycles create a total dispensed volume. The pump is pulsed continuously to create a metered flow. The dispense volume is accurate to $\pm 2\%$ of set point. The simple design ensures accurate dispensing over an exceptionally long service life without the need for maintenance.

APPLICATION

The SV500 series are used to dispense any liquid compatible with stainless steel and elastomer seals: liquid chromatography reagents & diluents, analytical & medical instruments & equipment, condiment packaging, point of sale beverage syrup flavor dispensing, ink, paint & colorant dispensing, cosmetics packaging, and soap & detergent dispensing.

FEATURES

- Dispense volume range of 100 μ L to 1250 μ L per stroke (AC model)
- Flow Rate: 180 mL/min of water or similar viscosity liquids
- Self-priming with up to 72" suction head
- Self-lubricating
- 21 watts at 115/60 Hz or 21 watts @ 24 VDC 70°F; continuous duty
- Electrical connection: 10" 18 AWG pigtails standard, 1/2" NPT conduit hub available
- End connections for use with 1/4" plastic tubing or 1/4" compression fittings
- Economic alternative to syringe & peristaltic pumps
- Mountable in any orientation



Custom designs are our specialty. Contact us today to see how we can help on your next project.

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Valve Parts in Contact with Fluid

Wetted Materials	300/400 Series SS, EDPM or Fluoropolymer, Silver (AC)
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Electrical

Standard Voltages	115/60 Hz or 24/DC. Other voltages are also available. Consult factory.
Standard Coil Housing	General purpose with pigtail leads

Specifications

Tube Connection	0.272" dia. tube for flex tubing or 0.250" dia. tube for compression fitting
Coil Construction	Class H, 10" Leads
Power	21 Watts (115/60), 21 Watts (24DC)
Output per Stroke	100 to 1250 μ l (AC) 100 to 1000 μ l (DC)
Max. Stroke per Minute	120 on H ₂ O
Max. Dispense Rate	180 ml/min (AC) 120 ml/min (DC)
Max. Priming Height	72" of H ₂ O
Minimum On-Time	250 milliseconds
Max. On-Time	1 second (AC) 6 seconds (DC)
Repeatability	\pm 2%
Special Requirements	Consult Factory

Part Number Configurator

Series Number	Lead Option	Voltage	Elastomer	Tube Connection Size
SV500	P = Pigtails	94H = 115/60 Hz	2 = Fluoropolymer	1 = 0.272" Dia. Tube
	C = Conduit	84 = 24/DC	7 = EPDM	2 = 0.250" Dia. Tube

Example: SV500P94H-7-1 equals SV500 pump with pigtail leads, 115/60 AC coil, EPDM elastomer and 0.272" diameter tube connection.