# SV323 & SV424

### 3-Way Normally Closed and Normally Open Pilot Operated Solenoid Valves





#### **DESCRIPTION**

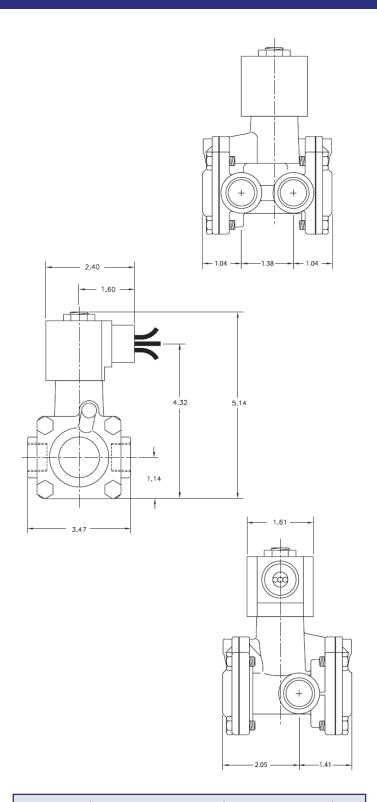
The SV323/SV424 series are pilot-operated high flow 3-way general purpose solenoid valves designed to control inert gases and liquids. Pilot operation requires a minimum operating pressure of 7 PSIG and enables the control of high flows of inert gases and liquids with low power consumption. Featuring cast bodies for exceptional durability in typical industrial applications, their compact size and low weight allow these valves to be used in the tightest space available. They are available with UL and CSA listing upon request.

#### **APPLICATION**

The SV323/SV424 series are typically used to control single-acting pneumatic and hydraulic cylinders and actuators.

#### **FEATURES**

- Maximum Operating Pressure: 150 PSI
- 7 PSI minimum operating pressure required
- Flow Rate: Cv of 3.3 to 4.4 available
- Leak rate: Internal: bubble tight on gas, drip tight on liquid. External: 0 cc/min at 150 PSIG
- Temperature: -40° F to 180° F max standard
- 10 watts @ 115/60 Hz or 24 VDC 70° F; continuous duty
- NEMA 4 coil housing standard, NEMA 7 available
- Electrical connection: 24" pigtails standard, with ½" conduit hub standard
- Brass or stainless steel bar stock body
- 3/8" or 1/2" NPT ports
- Mounting bracket available
- Mountable in any orientation
- Fully customizable for your application



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#### Construction

Operating Mode	Normally Closed: De-energized, the flow is from the cylinder port through the exhaust port. Energized, the flow is from the inlet port through the cylinder port. Normally Open: De-energized, the flow is from the inlet port through the cylinder port.
Port Size (in.)	3/8, 1/2
Temperature Ratings	Ambient Temp: -40°F to 150°F max. with class F coil 175°F max. with class H coil Fluid Temp: See specifications on next page.
Mounting Position	Mounts in any position (Best position is solenoid upright and vertical)
Agency Listings	Consult factory.
Options	Manual override, mounting bracket, neon lamp, surge suppressor

Valve Parts in Contact With Fluid				
Body	Brass			
Seals	Buna N, FKM, EPR			
Poppet Fork	Polyacetals			
Cartridge	Polyacetals			
Internal Metal Parts	303 and 430F stainless steel			

#### **Electrical**

Standard Voltages	AC 24V 60Hz AC 110V 50Hz, AC 120V 60Hz AC 220V 50Hz, AC 240V 60Hz DC 12V, DC 24V
Voltage Tolerance	+10% to -15% of applicable voltage
Standard Coil Housing	Standard: Watertight NEMA 4 Options: Explosion proof NEMA 7, open frame, junction box, grommet DIN
Coil	Class F and H
Lead Length	24 inches

<sup>\*</sup>Consult the factory for specifications other than those listed above.

#### **Coil Data**

Model		SV323	SV424	
Frequency		50	60	
Power	Inrush	37	30	
VA	Holding	18	13	
Power Consumption	AC	10 (Note: AC power consumption a 110V/50HZ, 120V/60HZ data.)		
(W)	DC	1	10	

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### **Specifications for SV323 Normally Closed**

Port Size	Orifice Size (ins.)	C <sub>V</sub>	Min PSI		essure (PSI) as, Water DC	Max Fluid Temp	Model Number Normally Closed Brass
3/8	5/8	3.3	7	150	150	180	SV323GF02N5CG4
1/2	5/8	4.4	7	150	150	180	SV323GF02N5DG4
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#### Specifications for SV424 Normally Open

Port Size	Orifice Size (ins.)	C <sub>V</sub>	Ope Min PSI			Max — Fluid — Temp — °F	Model Number Normally Closed Brass
3/8	5/8	3.3	7	150	150	180	SV424GF02N5CG4
1/2	5/8	4.4	7	150	150	180	SV424GF02N5DG4



#### **Part Number Configurator**

#### Example Part Number: SV323GF02N5CG4 Ν S 3 3 G 0 2 5 C G 4 Numbers 1 thru 5 8-9 10 11 12 13-14 15 Series Orifice Size Operating Applicable Seal Body Port Option Housing Coil Mode Voltage Material Code Connection Body x Top Insulation (NPT) 5 Brass c 3/8" F Class F Mounting SV323 Normally **A** Conduit 120V/60Hz N Buna N 5/8" Bracket Closed 110V/50Hz 1/2" D 220V/60Hz Open Frame H Class H ٧ FKM Manual 220V/50Hz Override SV424 Normally Neon Lamp Grommet Ε EPR\* 01 24V/60Hz Open Surge 12V DC EPR Explosion Suppressor Proof 24V DC NEMA 7 FKM\* Junction Box Apply to Watertight housing NEMA4 with DIN DIN (Y)

<sup>\*</sup>Standard shading coil material is copper. "E\*", "L\*", has silver shading coil.