

# SV323 & SV424

3-way Normally Closed and Normally Open  
Pilot Operated Solenoid Valves



Valcor General Purpose Series



## DESCRIPTION

These 3-way pilot operated solenoid valves are available in port sizes of 3/8" and 1/2" and provide high flow capabilities. By eliminating all internal sliding parts, they are highly resistant to dust, water deposits and other foreign material present in the flowing media, and as a result provide outstanding life expectancy and reliability.

## APPLICATIONS

The SV323/424 series valves are used primarily for pneumatic and hydraulic actuation of linear and rotary spring return and double acting cylinder actuation.

## FEATURES

- Pilot operated diaphragm construction provides high flow and capability of handling minimal differential pressures
- No sliding parts provide high resistance to dust, water deposits, and other foreign material, resulting in outstanding dependability
- AC and DC solenoid coils in a wide range of standard voltages
- NEMA 4 as standard coil, NEMA7 explosion proof and others available
- Pressure rating of 150 psi
- Mountable in any position



## VALCOR SV323 SERIES SPECIFICATIONS

### 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. Energized, the flow is from the cylinder port through the exhaust 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, 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, Viton, 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, conduit, grommet, DIN
Coil	Class F and H
Lead Length	24 inch

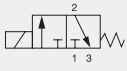
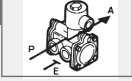
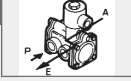
\*Consult the factory for specifications other than those listed above

### Coil Data

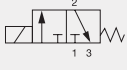
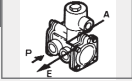
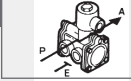
Coil Data			
Frequency (Hz)		50	60
Power (VA)	Inrush	37	30
	Holding	18	13
Power Consumption (W)	AC	10 (Note: AC power consumption at 110V/50HZ, 120V/60HZ data.)	
	DC	10	

## VALCOR SV323 SPECIFICATIONS

### Specification for SV323 Normally Closed

Port Size (NPT) (in.)	Orifice Size (in.)	C <sub>v</sub>	Operating Pressure Differential				Max Fluid Temp °F	Model Number	
			Min PSI	Max Pressure (PSI)		Normally Closed		Brass	
				Air/ Gas, Water					
				AC	DC				
Normally Closed				Energized		De-energized			
3/8	5/8	3.3	7	150	150	180	SV323GF02N5CG4		
1/2	5/8	4.4	7	150	150	180	SV323GF02N5DG4		

### Specification for SV323 Normally Open

Port Size (NPT) (in.)	Orifice Size (in.)	C <sub>v</sub>	Operating Pressure Differential				Max Fluid Temp °F	Model Number	
			Min PSI	Max Pressure (PSI)		Normally Open		Brass	
				Air/ Gas, Water					
				AC	DC				
Normally Open				Energized		De-energized			
3/8	5/8	3.3	7	150	150	180	SV424GF02N5CG4		
1/2	5/8	4.4	7	150	150	180	SV424GF02N5DG4		

# VALCOR SV323 SPECIFICATIONS

## Part Number Configurator

Example Part Number: SV323GF02N5C G4

Numbers 1 thru 5		6	7	8-9		10	11	12	13-14		15				
Series	Operating Mode	Housing		Coil Insulation		Applicable Voltage		Seal Material	Body Code		Port Connection (NPT)	Orifice Size Body x Top	Option		
SV323	Normally Closed	A	Conduit	F	Class F	02	120V/60Hz	N	Buna N	5	Brass	C	3/8"	K	Mounting Bracket
		P	Open Frame	H	Class H		110V/50Hz	V	Viton			D	1/2"	N	Neon Lamp
SV424	Normally Open	B	Grommet			04	220V/60Hz	E	EPR*					Z	Surge Suppressor
		X	Explosion Proof NEMA 7			01	220V/50Hz	C	EPR					M	Manual Override
		S	Junction Box			15	24V/60Hz	L	Viton*						
		G	Watertight NEMA 4			16	12V DC								
		Y	DIN				24V DC								(N and Z apply to housing with terminals only)

Note: \* Standard shading coil material is copper. "E\*", "L\*" has silver shading coil.

## External Dimensions

