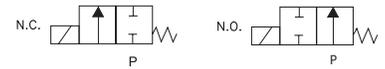


SV350 & SV450

2-way Normally Closed and Normally Open
High Pressure Piloted Piston Solenoid Valves



Valcor General Purpose Series



DESCRIPTION

These 2-way piloted piston operated solenoid valves are available in normally closed and normally open operating modes. They range from 1/4" to 1/2" port sizes with orifice sizes of 3/8", and pressures to 2,200 psi. Available in stainless steel bodies and optional seal materials, these high flow, high pressure valves are designed to handle a wide range of gases and fluids. For special applications, contact your Valcor customer service representative.

APPLICATIONS

The SV350 & SV450 series are suitable for a broad range of industrial applications. Typical applications include:

- General on-off control of water, oil, and gas
- High pressure calibration and test stands
- High flow fuel lines
- Process control and production piping
- Pilot plant control loops
- Economical choice for OEM applications

FEATURES

- Zero PSI minimum operating pressures
- High flow capability in compact design
- AC and DC solenoid coils in a wide range of standard voltages
- NEMA4 as standard coil enclosure, NEMA7 Explosion proof and others available
- Pressures rating of up to 2,200 psi
- Mountable in any position



VALCOR SV350 & SV450 SERIES SPECIFICATIONS

Construction

Operating Mode	Normally Closed: Open when energized, closed when de-energized Normally Open : Closed when energized, open when de-energized.
Port Size (in.)	Normally Closed-1/4, 3/8, 1/2 Normally Open- 1/4, 3/8, 1/2
Orifice Size (in.)	3/8
Temperature Ratings	Ambient Temp 32°F to 125°F Fluid Temp. See specifications, next page
Mounting Position	Any position
Agency Listings	UL listed, CSA approved by order

Valve Parts in Contact with Fluid

Body	303 stainless steel
Seals	Viton, PTFE
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 DV 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
Coil	Class F and H
Lead Length	24 inch

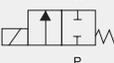
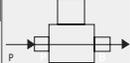
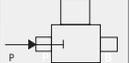
*Consult the factory for specifications other than those listed above

Coil Data

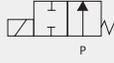
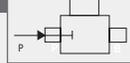
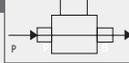
Model			
Frequency (Hz)		60	50
Power (VA)	Inrush	46	46
	Holding	20	21
Power Consumption (W)	AC	10	10
	DC	10	10

VALCOR SV350 & SV450 SPECIFICATIONS

Specification for SV350 Normally Closed

Port Size (NPT) (in.)	Orifice Size (in.)	C_v	Operating Pressure Differential								Max Fluid Temp °F	Model Number		
			Min PSI	Max Pressure (PSI)						Normally Closed		Stainless Steel		
				Air /Gas		Water		Lt. Oil						
				AC	DC	AC	DC	AC	DC					
Normally Closed		Energized		De-Energized		2200	2200	2200	2200	2200	2200	230	SV350GF02Z1BF5	
1/4	3/8	1.1	0	2200	2200	2200	2200	2200	2200	2200	230	SV350GF02Z1CF5		
3/8	3/8	1.5	0	2200	2200	2200	2200	2200	2200	2200	230	SV350GF02K1DF5		
1/2	3/8	1.5	0	2200	2200	2200	2200	2200	2200	2200	230			

Specification for SV450 Normally Open

Port Size (NPT) (in.)	Orifice Size (in.)	C_v	Operating Pressure Differential								Max Fluid Temp °F	Model Number		
			Min PSI	Max Pressure (PSI)						Normally Open		Stainless Steel		
				Air /Gas		Water		Lt. Oil						
				AC	DC	AC	DC	AC	DC					
Normally Open		Energized		De-Energized		2200	2200	2200	2200	2200	2200	230	SV450GF02Z1BF5	
1/4	3/8	0.8	0	2200	2200	2200	2200	2200	2200	2200	230	SV450GF02Z1CF5		
3/8	3/8	1.0	0	2200	2200	2200	2200	2200	2200	2200	230	SV450GF02K1DF5		
1/2	3/8	1.0	0	2200	2200	2200	2200	2200	2200	2200	230			

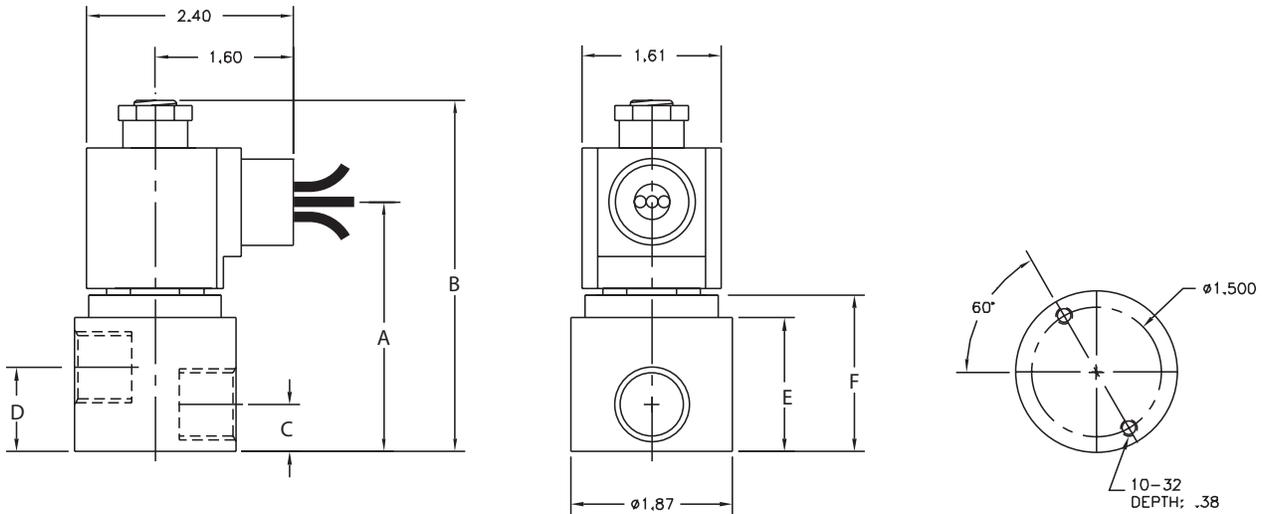
VALCOR SV350 & SV450 SPECIFICATIONS

Part Number Configurator

Example Part Number: **SV350GF02Z1B5**

S	V	3	5	0	G	F	0	2	Z	1	B	F	5
Numbers 1 thru 5					6	7	8-9		10	11	12	13-14	
Series	Operating Mode	Housing	Coil Insulation	Applicable Voltage	Seal Material	Body Code	Port Connection (NPT) (in.)	Orifice Size (in.)					
SV350	Normally Closed	X Explosion Proof NEMA 7	F Class F H Class H	02 120V/60Hz 16 110V/50Hz 24V DC	Z Viton / PTFE	1 SS	B 1/4 C 3/8 D 1/2	F5 3/8					
SV450	Normally Open	G Watertight NEMA 4											

External Dimensions



Port Connection (NPT) (in.)	A		B		C		D		E		F		Weight
	NC	NO											
1/4	2.66	2.73	3.61	4.10	0.42	0.42	0.95	0.95	1.47	1.47	1.74	1.74	1.80
3/8	2.66	2.73	3.61	4.10	0.42	0.42	0.95	0.95	1.47	1.47	1.74	1.74	1.80
1/2	2.74	2.81	3.69	4.17	0.54	0.54	0.97	0.97	1.55	1.55	1.82	1.82	2.00