

# SV327 & SV427

2-way Zero Differential Normally Closed and Normally Open  
Pilot Operated Solenoid Valves



Valcor General Purpose Series



## DESCRIPTION

These 2-way piloted piston operated solenoid valves are capable of operating at zero differential pressure. Available in normally closed and normally open operating modes, they range from 1" to 2" port sizes with orifice sizes of 1" to 1 1/4", and pressures from 0 to 125 psi. Available in both brass and stainless steel constructions with optional seal materials, these high flow valves are designed to handle a wide range of gases and fluids. For special applications, contact your Valcor customer service representative

## APPLICATIONS

The SV327 & SV427 series are suitable for a broad range of industrial applications. Typical applications include:

- Differential pressures down to zero psi
- Tank drain valves
- General on-off control of water, oil, and gas
- Process control and production piping
- Gas and liquid distribution systems
- Economical choice for OEM applications

## FEATURES

- Zero differential pilot operated construction
- Wide selection of construction materials allow for use on a variety of fluids
- AC and DC solenoid coils in a wide range of standard voltages
- Conduit as standard coil enclosure, NEMA4 as an option
- Pressure rating of up to 125 psi
- Cv rating of up to 28



## VALCOR SV327 & SV427 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.)	1, 1 1/4, 1 1/2, 2
Orifice Size (in.)	1, 1 1/4
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	Solenoid vertical and upright
Agency Listings	Consult factory
Options	Manual override, neon lamp, surge suppressor

### Valve Parts in Contact with Fluid

Body	Forged brass, 304 stainless steel, bronze
Seals	Buna N, Viton, ethylene propylene
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: Conduit (NEMA1) Options : Watertight NEMA 4, terminal
Coil	Class F and H
Lead Length	18 inch

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

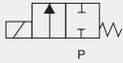
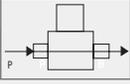
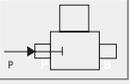
### Coil Data

Model		SV327		SV427	
Frequency (Hz)		50	60	50	60
Power (VA)	Inrush	150	130	160	130
	Holding	27	22	28	22
Power Consumption (W)	AC	17.5		18.5	
	DC	22.5		---	

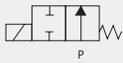
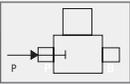
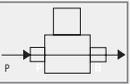
Note: AC power consumption at 110V/50HZ, 120V/60HZ data.

## VALCOR SV327 & SV427 SPECIFICATIONS

### Specification for SV327 Normally Closed

Port Size (NPT)(in.)	Orifice Size (in.)	C <sub>v</sub>	Operating Pressure Differential								Max Fluid Temp °F	Model Number		
			Max Pressure (PSI)									Normally Closed		
			Air /Gas		Water		Lt. Oil		Steam			Brass	Stainless Steel	
			AC	DC	AC	DC	AC	DC	AC	DC				
Normally Closed							Energized				De-Energized			
1	1	13	0	125	125	100	100	70	70	-	180	SV327AF02N5FG9	SV327AF02L7FG9	
	1	13	0	-	-	100	50	-	-	-	210	SV327AF02C5FG9	SV327AF02E7FG9	
1 1/4	1 1/4	19	0	125	125	50	50	70	70	-	180	SV327AF02N5GJ2	SV327AF02L7GJ2	
	1 1/4	19	0	-	-	50	50	-	-	-	210	SV327AF02C5GJ2	SV327AF02E7GJ2	
1 1/2	1 1/4	25	0	125	125	50	50	70	70	-	180	SV327AF02N5HJ2	SV327AF02L7HJ2	
	1 1/4	25	0	-	-	50	50	-	-	-	210	SV327AF02C5HJ2	SV327AF02E7HJ2	
2	1 1/4	28	0	125	125	50	50	70	70	-	180	SV327AF02N5JJ2	---	
	1 1/4	28	0	-	-	50	50	-	-	-	210	SV327AF02C5JJ2	---	

### Specification for SV427 Normally Open

Port Size (NPT)(in.)	Orifice Size (in.)	C <sub>v</sub>	Operating Pressure Differential								Max Fluid Temp °F	Model Number		
			Max Pressure (PSI)									Normally Open		
			Air /Gas		Water		Lt. Oil		Steam			Brass	Stainless Steel	
			AC	DC	AC	DC	AC	DC	AC	DC				
Normally Open							Energized				De-Energized			
1	1	13	0	125	-	125	-	70	-	-	180	SV427AF02N5FG9	SV427AF02L7FG9	
	1	13	0	-	-	100	-	-	-	-	210	SV427AF02C5FG9	SV427AF02E7FG9	
	1	13	0	-	-	-	-	-	-	50	295	SV427AH02C5FG9	SV427AH02E7FG9	
1 1/4	1 1/4	18	0	125	-	125	-	70	-	-	180	SV427AF02N5GJ2	SV427AF02L7GJ2	
	1 1/4	18	0	-	-	100	-	-	-	-	210	SV427AF02C5GJ2	SV427AF02E7GJ2	
	1 1/4	18	0	-	-	-	-	-	-	50	295	SV427AH02C5GJ2	SV427AH02E7GJ2	
1 1/2	1 1/4	23	0	125	-	125	-	70	-	-	180	SV427AF02N5HJ2	SV427AF02L7HJ2	
	1 1/4	23	0	-	-	100	-	-	-	-	210	SV427AF02C5HJ2	SV427AF02E7HJ2	
	1 1/4	23	0	-	-	-	-	-	-	50	295	SV427AH02C5HJ2	SV427AH02E7HJ2	
2	1 1/4	27	0	125	-	125	-	70	-	-	180	SV427AF02N5JJ2		
	1 1/4	27	0	-	-	100	-	-	-	-	210	SV427AF02C5JJ2		
	1 1/4	27	0	-	-	-	-	-	-	50	295	SV427AH02C5JJ2		

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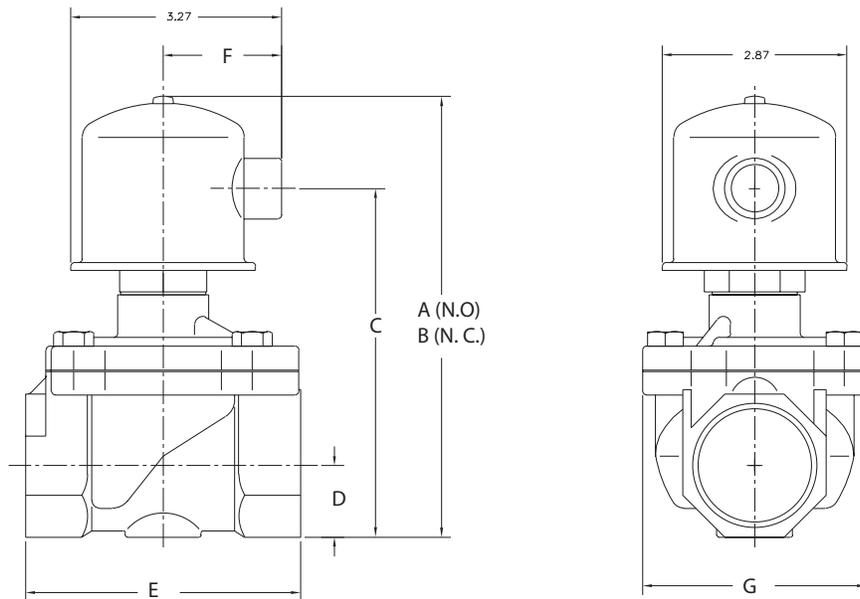
## Part Number Configurator

Example Part Number: SV327AF02N5FG9



Numbers 1 thru 5		6	7	8-9	10-11	12-13-14	15
Series	Operating Mode	Housing	Coil Insulation	Applicable Voltage	Material (Seal, Body)	Port Connection (NPT)(in.) Orifice Size	Option
SV327	Normally Closed	A Conduit	F Class F	02 120V/60Hz	N5 Buna N, Brass	FG9 1 (1)	M Manual Override
		W Watertight NEMA 4	H Class H	110V/50Hz	V5 Viton, Brass	GJ2 1 1/4 (1 1/4)	N Neon Lamp
SV427	Normally Open			04 220V/60Hz 220V/50Hz	J7 Buna N, 304 SS	HJ2 1 1/2 (1 1/4)	Z Surge Supressor
				01 24V/60Hz	C5 EPR, Brass	JJ2 2 (1 1/4)	
				15 12V DC	L7 Viton, 304 SS		
				16 24V DC	E7 Ethylene Propylene, 304 SS		

## External Dimensions



Port Connection (NPT) (in.)	A	B	C	D	E	F	G	Weight (lb)
1	7.44	6.57	3.90	0.83	3.62	1.97	3.23	5.1
1 1/4	8.15	7.28	4.25	1.18	4.33	1.97	3.62	6.7
1 1/2	8.15	7.28	4.25	1.18	4.33	1.97	3.62	6.7
2	8.66	7.80	4.41	1.54	5.51	1.97	3.62	9.1