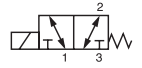
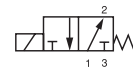
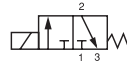


# SV733, SV734, & SV736

3-way Normally Closed, Normally Open and Universal  
Direct Acting Solenoid Valves



Valcor General Purpose Series



## DESCRIPTION

These compact 3-way direct acting solenoid valves are available in normally open, normally closed, and universal operating modes. They range from 1/8" to 1/4" port sizes with orifice sizes of 3/64" to 1/4". These sturdy construction valves are designed to handle a wide variety of fluids with an operating pressure range of 0 PSI up to 200 PSI. For special applications, please contact your Valcor customer service representative.

## APPLICATIONS

The SV73 series are suitable for a broad range of industrial applications. Typical applications include:

- General 3 way control of water, oil, and gas
- Fluid and gas diverting and mixing
- Pneumatic and hydraulic cylinder actuation
- Calibration and test stands
- Pilot plant control loops
- Economical choice for OEM applications

## FEATURES

- Direct acting construction designed for high cycle life
- 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
- NEMA4 as standard coil enclosure, NEMA7 explosion proof and others available
- Pressure ratings of up to 200 psi
- Mountable in any position



## VALCOR SV733, SV734 & SV736 SERIES SPECIFICATIONS

### Construction

Operating Mode	Normally Closed: Open when energized, closed when de-energized. Normally Open : Closed when energized, open when de-energized. Universal: Either normally open or normally closed with pressure at any port.
Port Size (in.)	1/8, 1/4
Orifice Size (in.)	3/64, 1/16, 3/32, 1/8, 3/16, 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	Mounts in any position (Best position is solenoid upright and vertical)
Agency Listings	UL listed, CSA approved by order
Options	Neon lamp, surge suppressor

### Valve Parts in Contact with Fluid

Body	303 Stainless steel, brass
Seals	Viton, Buna N, 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 DC 12V, DC 24V
Voltage Tolerance	+10% to -15% of applicable voltage
Coil Housings	Standard: Watertight NEMA 4 Options : Conduit, grommet, DIN, 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

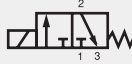


### Coil Data

Model		SV733	SV734	SV736
Frequency (Hz)		60	60	60
Power (VA)	Inrush	46.2	46.2	46.2
	Holding	19.8	19.8	19.8
Power Consumption (W)	AC	10*	10*	10*
	DC	Class F= 10, Class H= 9		

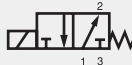

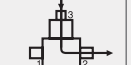
\*Explosion proof models are rated at 11 watts

## VALCOR SV733, SV734 & SV736 SERIES SPECIFICATIONS




### Specification for SV733 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					
	Body	Top	Body	Top	Air/ Gas		Water/Lt. Oil			SS Body Standard					
					Min PSI	AC	DC	AC		DC					
Normally Closed															
								Energized				De-Energized			
1/8	3/64	1/16	0.05	0.10	0	200	200	200	200	230	SV733GF02V2AV1				
	1/16	1/16	0.08	0.10	0	150	150	150	150	230	SV733GF02V2AC5				
	3/32	3/32	0.18	0.23	0	100	100	100	100	230	SV733GF02V2AC9				
	1/8	3/32	0.30	0.23	0	75	75	75	75	230	SV733GF02V2AV3				
	3/16	3/32	0.53	0.23	0	30	30	30	30	230	SV733GF02V2AV9				
1/4	3/64	1/16	0.05	0.10	0	200	200	200	20	230	SV733GF02V3BV1				
	1/16	1/16	0.08	0.10	0	150	150	150	150	230	SV733GF02V3BC5				
	3/32	3/32	0.18	0.23	0	100	100	100	100	230	SV733GF02V3BC9				
	1/8	3/32	0.30	0.23	0	75	75	75	75	230	SV733GF02V3BV3				
	3/16	3/32	0.53	0.23	0	30	30	30	30	230	SV733GF02V3BV9				

### Specification for SV734 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					
	Body	Top	Body	Top	Air/ Gas		Water/Lt. Oil			SS Body Standard					
					Min PSI	AC	DC	AC		DC					
Normally Open															
								Energized				De-Energized			
1/8	1/8	1/16	0.36	0.10	0	125	120	125	120	230	SV734GF02V2AV5				
	1/8	3/32	0.36	0.20	0	75	25	75	25	230	SV734GF02V2AV3				
1/4	1/8	1/16	0.36	0.10	0	125	120	125	120	230	SV734GF02V3BV5				
	1/8	3/32	0.36	0.20	0	75	25	75	25	230	SV734GF02V3BV3				
	1/4	3/32	0.80	0.20	0	75	20	75	20	230	SV734GF02V3BW1				

### Specification for SV736 Universal

Port Size (NPT) (in.)	Orifice Size (in.)		C <sub>v</sub>		Operating Pressure Differential				Max Fluid Temp °F	Model Number					
					Max Pressure (PSI)					Universal					
	Body	Top	Body	Top	Air/ Gas		Water/Lt. Oil			SS Body Standard					
					Min PSI	AC	DC	AC		DC					
Universal															
								Energized				De-Energized			
1/8	3/64	1/16	0.05	0.08	0	150	120	150	120	230	SV736GF02V2AV1				
	1/16	1/16	0.08	0.08	0	120	100	120	100	230	SV736GF02V2AC5				
	3/32	3/32	0.18	0.19	0	75	25	75	25	230	SV736GF02V2AC9				
	1/8	3/32	0.30	0.23	0	50	20	50	20	230	SV736GF02V2AV3				
1/4	3/64	1/16	0.05	0.08	0	150	120	150	120	230	SV736GF02V3BV1				
	1/16	1/16	0.08	0.08	0	120	100	120	100	230	SV736GF02V3BC5				
	3/32	3/32	0.18	0.19	0	75	25	75	25	230	SV736GF02V3BC9				
	1/8	3/32	0.30	0.23	0	50	20	50	20	230	SV736GF02V3AV3				

\*Class H Coil Recommended for Steam and Other High Temperature Applications

# VALCOR SV733, SV734 & SV736 SERIES SPECIFICATIONS

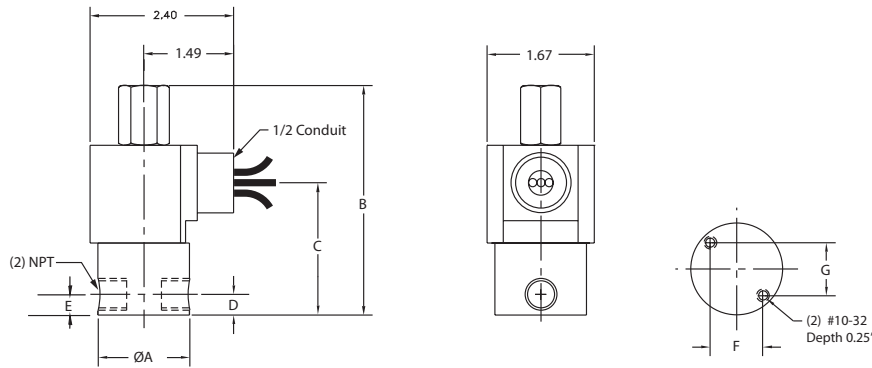
## Part Number Configurator

Example Part Number: **SV733GF02V2A** **V1**



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) (in.)	Orifice Size Body x Top (in.)	Option					
SV733	Normally Closed	A	Conduit	F	Class F	02	120V/60Hz 110V/50Hz	N	Buna N	2	SS 1/8" NPT	A	1/8	V1	3/64x1/16	N	Neon Lamp with surge suppressor
		P	Open Frame	H	Class H	04	220V/60Hz 220V/50Hz	V	Viton	3	SS 1/4" NPT	B	1/4	C5	1/16x1/16		
SV734	Normally Open	B	Grommet			01	24V/60Hz	T	PTFE	9	Brass			C9	3/32x3/32	Z	Surge Suppressor
SV736	Universal	X	Explosion Proof NEMA 7			15	12V DC							V3	1/8x3/32		
		S	Junction Box			16	24V DC							V9	3/16x3/32	N	N and Z apply to housing with terminals only
		G	Water-tight NEMA 4											V5	1/8x1/16	Z	
		Y	DIN											W1	1/4x3/32		

## External Dimensions



Body Code	Port Conn. (in.)	A	B	C	D	E	F	G	Weight (lbs)
2	1/8	1.22	3.48	1.63	0.29	0.29	0.61	0.73	1.00
3	1/4	1.56	3.80	1.66	0.34	0.34	0.88	0.88	1.20
9	1/8	1.63	3.60	1.63	0.37	na	na	na	1.00
9	1/4	1.63	3.84	1.71	0.37	na	na	na	1.20