SV733, SV734 & SV736

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





DESCRIPTION

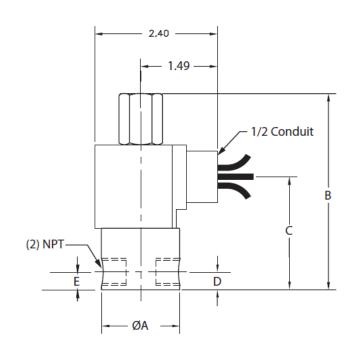
The SV733/SV734/SV736 series are direct acting 3-way/2 position solenoid valves designed to control the flow of non-corrosive and corrosive gases and liquids. They feature machined bar stock bodies for exceptional durability in typical industrial applications. These valves are direct acting, and do not require system pressure to operate. The 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.

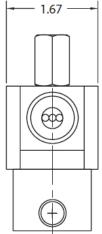
APPLICATION

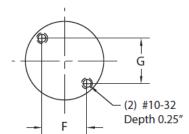
SV733/SV734/SV736 valves are commonly used with fuel, hydraulic fluid and non-corrosive gases and liquids and are typically used to select flow from one of two sources or divert flow to one of two process streams. They are also used in normally open or normally closed configuration and are suitable for piloting higher flow or higher pressure valves and single-acting cylinders and actuators. Examples: industrial pneumatic, fuel gas and hydraulic systems, hydrogen fuel cells, CNG fuel systems, robotic pneumatic control systems, calibration and test stands, and air and water sampling for environmental analyzers.

FEATURES

- Maximum Operating Pressure: 200 PSI
- Fast 50mS response time
- Flow Rate: Body Cv of .05 to .41; Vent Cv of 0.1 to .23 available
- Leak rate: Internal: bubble tight on gas, drip tight on liquid. External: 0 cc/min at 200 PSIG
- 10 watts at 115/60 Hz or 24 VDC 70° F; continuous duty
- NEMA 4 coil housing standard, NEMA 7 available
- Two 10-32 UNF mounting holes in bottom of body
- Fully customizable for your application







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SV733, SV734 & SV736 3-Way Normally Closed, Normally Open and Universal Direct Acting Solenoid Valves



Construction

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.
1/8, 1/4
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.
Mounts in any position (Best position is solenoid upright and vertical)
UL Listed, CSA Approved by order

Valve Parts in Contact With Fluid									
Body	Brass, 303 stainless steel								
Internal Metal Parts	FKM, Buna N, PTFE								
Seals	303 and 430F stainless steel, copper								

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
Coil	Class F and H
Lead Length	24 inches

^{*}Consult the factory for specifications other than those listed above.

Coil Data

Model	l	SV733	SV734	SV736				
Frequency		60	50	60				
Power	Inrush	46.2	46.2	46.2				
(VA)	Holding	19.8	19.8	19.8				
Power	AC	10	10	10				
Consumption	DC	Class H = 10						

^{*}Explosion proof models are rated at 11 watts.

SV733, SV734 & SV736





Specifications for SV733 Normally Closed

Normally Closed



Energized



De-Energized



Port	- 151				0	perating	Pressu	re Diffe		Model Number	
Size		ce Size	C_V		. .		Max. P	ressure ((PSI)	Fluid	
(in.)	(1	n.)			PSI	Air	/Gas	Water	/Lt. Oil		Normally Closed
(NPT)	Body	Тор	Body	Тор	Min .	AC	DC	AC	DC	I Max F Temp	SS Body Standard
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	200	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
	5/32	3/32	0.41	0.23	0	50	50	50	50	295	SV733GF02C3BV7
	5/32	3/32	0.41	0.23	0	50	50	50	50	180	SV733GF02N3BV7
	5/32	3/32	0.41	0.23	0	50	50	50	50	230	SV733GF02V3BV7
	5/32	3/32	0.41	0.23	0	50	50	50	50	366	SV733GF02T3BV7

Specifications for SV734 Normally Open







Port	Orific	e Size			0	perating		re Diffe		Fluid	Model Number
Size (in.)	(i	n.)	Cv		PSI	Max. Pressure (PSI) Air/Gas Water/Lt. Oil		`		Normally Open	
(NPT)	Body	Тор	Body	Тор	Z i	AC	DC	AC	AC DC		SS Body Standard
1/8	1/8	3/32	0.36	0.20	0	75	25	75	25	230	SV734GF02V2AV3
1/4	1/8	3/32	0.36	0.20	0	75	25	75	25	230	SV734GF02V3AV3
1/4	5/32	3/32	0.41	0.23	0	75	20	75	20	295	SV734GF02C3BV7
1/4	5/32	3/32	0.41	0.23	0	75	20	75	20	180	SV734GF02N3BV7
1/4	5/32	3/32	0.41	0.23	0	75	20	75	20	230	SV734GF02V3BV7
1/4	5/32	3/32	0.41	0.23	0	75	20	75	20	366*	SV734GF02T3BV7

Specifications for SV736 Universal









De-Energized



Dout					0	perating								
Port Size		e Size	Cv				Max. Pi	ressure ((PSI)	Fluid P °F	Model Number			
(in.)	(11	n.)	•		PS!	Air	/Gas	Water/Lt. Oil			Universal			
(NPT)	Body	Тор	Body	Тор	_ ri _	AC	DC	AC	DC	I Max F Temp	SS Body Standard			
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			
	5/32	3/32	0.41	0.23	0	60	20	60	20	295	SV736GF02C3BV7			
	5/32	3/32	0.41	0.23	0	60	20	60	20	180	SV736GF02N3BV7			
	5/32	3/32	0.41	0.23	0	60	20	60	20	230	SV736GF02V3BV7			
	5/32	3/32	0.41	0.23	0	50	50	50	50	366*	SV736GF02T3BV7			

^{*}Class H Coil Recommended for Steam and Other High Temperature Applications.

SV833, SV834 & SV836





Part Number Configurator

Example Part Number: SV733GH02V2AV1

S \	S V 7 3 3 G		G		F		0 2		V		2		Α		V 1		: :	
Numbe	ers 1 thru 5		6		7		8-9		10		11		12		13-14	15		
Series	Operating Mode	Ηοι	using	Co	il sulation		olicable tage	Sea Ma	al terial	Connection Bo		Orifice Size Body x Top (in.)						
SV733 SV734 SV736	Normally Closed Normally Open Universal	A P B X S	Conduit Open Frame Grommet Explosion Proof NEMA 7 Junction Box Water-tight NEMA 4	F H	Class F Class H	01 15	120V/60Hz 110V/50Hz 220V/60Hz 220V/50Hz 24V/60Hz 12V DC 24V DC	v	Buna N FKM PTFE	2 3 8	SS 1/8" NPT SS 1/4" NPT Brass	В	1/8	C5 C9 V3 V7	3/64x1/16 1/16x1/16 3/32x3/32 1/8x3/32 5/32x3/32 3/16x3/32	Z	Neon Lamp with Surge Supressor Surge Supressor Apply to housing with DIN (Y)	
		Υ	DIN															

External Dimensions

Body Code	Port Conn. (in.)	Α	В	С	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	100	1.20
9	1/8	1.63	3.60	1.63	0.37	na	na	25	1.00
9	1/4	1.63	3.84	1.71	0.37	na	na	20	1.20