

# OMEGA-FLO® 2-WAY, LOW-COST, DIRECT-ACTING SOLENOID VALVES

## SV3100 Series



- ✓ Ideal for Compressed Air, Inert Gas, Water, and Synthetic Oils
- ✓ Normally Closed
- ✓ Process Temperature to 137°C (280°F)
- ✓ 8 W, AC Coils Standard
- ✓ 8 W, DC Coils Available

SV-3100 Series 2-way solenoid valves are direct-acting valves featuring brass and stainless steel construction and FKM seal material. The temperature range of -10 to 137°C (14 to 280°F) is ideal for neutral media such as compressed air, inert gases, water, and synthetic oils.

A strain-relief connector is supplied with each unit. A 1/2" conduit plug is also available.

### SPECIFICATIONS

**Mounting Position:** Any (preferably with solenoid system upright)

**Maximum Process Temperature:** 137°C (280°F) due to FKM O-ring

**Maximum Ambient Temperature:** Coil dependent (See ratings on coils)

**Voltage Tolerance:** ±10%

**Opening Time (msec):**

AC: 10 to 20

DC: 20 to 80 depending on orifice and pressure

**Closing Time (msec):**

AC and DC: Approx. 20 to 30



SV3105 shown  
larger than actual size.

**Cycling Rate:** Approx. 1000 cpm

**Duty Cycle:** Continuous (100%)

**Coil Molding Material:**

**Black Polyester (Class F):**

SV8COIL-115AC

SV8COIL-24DC/60HZ

SV8COIL-24AC/50 to 60HZ

SV8COIL-220AC

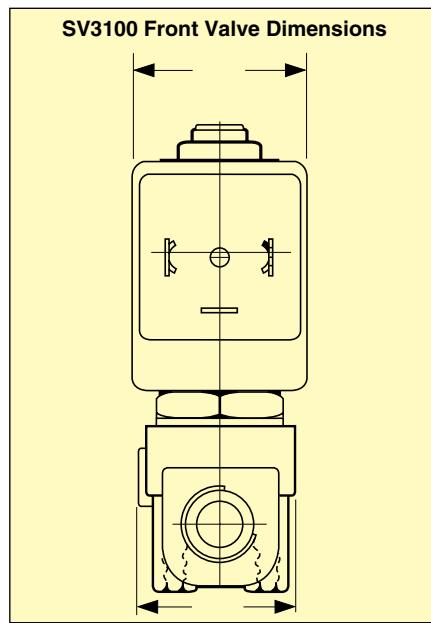
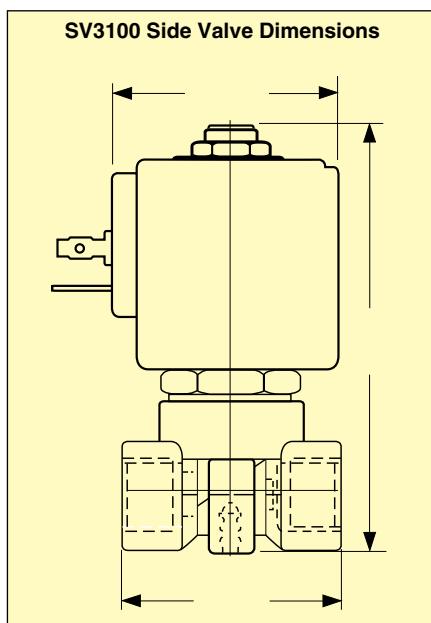
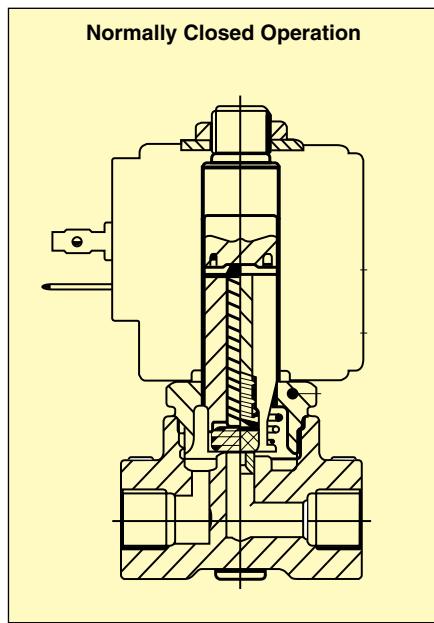
**Black Polyamide (Class F):**

SV8COIL-12DC, SV8COIL-24DC

**Black Polyphenylensulphide (Class H):** SV8COIL-115/60HZ

Materials of Construction	
<b>Body</b>	Brass
<b>Armature Tube</b>	Brass
<b>Fixed Core</b>	Stainless Steel 400
<b>Plunger</b>	Stainless Steel 400
<b>Spring</b>	Stainless Steel 300
<b>Shading Ring</b>	Copper
<b>Orifice</b>	Brass
<b>Sealing Material</b>	FKM

Coil Specifications		
Coil	Inrush VA	Holding VA
8 W	25	14



Valve Dimensions			
Pipe Size	A	B	C
1/8" / 1/4"	11/16"	27/16"	13/16"

Coil Dimensions			
Watt	D	E	F
8	1 3/16"	1 21/32"	2 1/8"

## To Order

Model No.	Description	Pipe <sup>†</sup> Size (inch)	Orifice Size (inch)	Cv Flow Factor	Operating Pressure M.O.P.D.*	
					AC psi	DC psi
<b>SV3101</b>	2-way normally closed valve	1/8	1/16	0.10	430	220
<b>SV3103</b>	2-way normally closed valve	1/8	5/32	0.14	290	150
<b>SV3104</b>	2-way normally closed valve	1/8	1/8	0.24	175	85
<b>SV3105</b>	2-way normally closed valve	1/8	5/32	0.35	85	30
<b>SV3106</b>	2-way normally closed valve	1/4	1/16	0.10	430	220
<b>SV3108</b>	2-way normally closed valve	1/4	5/32	0.15	290	150
<b>SV3109</b>	2-way normally closed valve	1/4	1/8	0.24	175	85
<b>SV3110</b>	2-way normally closed valve	1/4	5/32	0.35	85	30

\* Maximum operational pressure differential.

† BSP threads. In most cases BSP and NPT are interchangeable in this size.

## Accessories

Model No.	Description
<b>Connectors</b>	
<b>SV-CGC</b>	Replacement cable grip connector
<b>SV-CC</b>	1/2" conduit connector
<b>Coils</b>	
<b>SV8COIL-115AC</b>	Replacement 8 W coil for 110 to 120 Vac/50 to 60 Hz 154°C (310°F) (Class F)
<b>SV8COIL-12DC</b>	8 W coil for 12 Vdc 154°C (310°F) (Class F)
<b>SV8COIL-24DC</b>	8 W coil for 24 Vdc 154°C (310°F) (Class F)
<b>SV8COIL-24AC/60HZ</b>	8 W coil for 24 Vac/50 to 60 Hz 182°C (360°F) (Class F)
<b>SV8COIL-220AC</b>	8 W coil for 220 to 240 Vac/50 to 60 Hz 154°C (310°F) (Class F)
<b>SV8COIL-115/60HZ</b>	8 W coil for 115 Vac/60 Hz 182°C (360°F) (Class H)

Comes complete with operator's manual, 8 W coil and cable grip connector.

**Ordering Examples:** **SV3109**, 1/4" valve with 5/32" orifice.

**SV3106**, 1/4" valve with 1/16" orifice and **SV8COIL-12DC**, 8 W/12 Vdc coil.



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