

OMEGA-FLO® 2-WAY GENERAL PURPOSE SOLENOID VALVES

SV3300 Series



- ✓ Ideal for Compressed Air, Inert Gas, Water and Synthetic Oils
- ✓ Available in Normally Open or Normally Closed
- ✓ Process Temperature to 137°C (280°F)
- ✓ 8 W, AC Coils Standard, 12 or 14 W, AC or DC Coils Available



SV3301 shown larger than actual size.

SV-3300 Series 2-way solenoid valves are direct-acting valves featuring brass, stainless steel construction and FKM seal material. The temperature range from -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 ½" 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: 20 to 30 approximately
Cycling Rate: Approx. 1000 cpm

Duty Cycle: Continuous (100%)

Coil Molding Material:

Black Polyester (Class F):

SV8COIL-115AC
 SV8COIL-24DC/60HZ
 SVCOIL-24AC/50 to 60HZ
 SV8COIL-220AC

Black Polyamide (Class F):

SV8COIL-12DC, SV8COIL-24DC, all 12 Watt coils

Black Polyphenylsulfide (Class H):

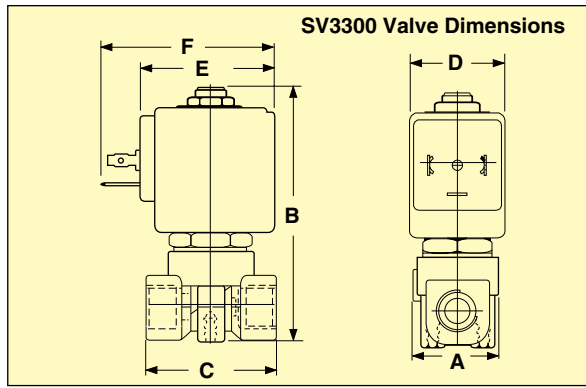
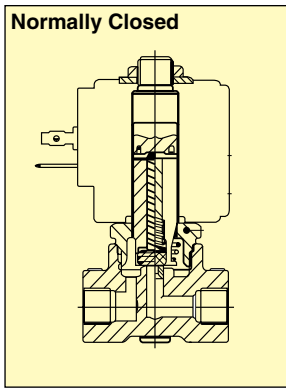
SV8COIL-115/60HZ

Black Epoxy Resin (Class H):

All 14 Watt coils

Materials of Construction	
Body	Brass
Armature Tube	Stainless Steel 300
Fixed Core	Stainless Steel 400
Plunger	Stainless Steel 400
Spring	Stainless Steel 300
Shading Ring	Copper
Orifice ≤ 1/8"	Stainless Steel 300
Orifice > 1/8"	Brass
Sealing Material	FKM

Coil Specifications		
Coil	Inrush VA	Holding VA
8 W	25	14
12 W	36	23
14 W	43	27



Valve Dimensions			
Pipe Size	A	B	C
1/8"	1 3/32"	3 1/16"	1 5/8"
1/4"			

Coil Dimensions			
Watt	D	E	F
8	1 3/16"	1 21/32"	2 1/8"
12	1 7/16"	1 29/32"	2 3/8"
14	2 1/16"	2 5/32"	2 5/8"

To Order

Normally Closed	Normally Open	Pipe† Size	Orifice Size	Cv Flow Factor	Coils		MIN psi	Operating Pressure M.O.P.D.*	
					Standard	Optional		AC psi	DC psi
Model No.	Model No.								
SV3301	SV3301-NO	1/8"	1/16"	0.10	8 W	—	0	435	260
SV3302	SV3302-NO	1/8"	5/64"	0.14	8 W	—	0	315	230
		1/8"	5/64"	0.14	—	12 or 14 W	0	505	435
SV3303	SV3303-NO	1/8"	3/32"	0.22	8 W	—	0	200	130
		1/8"	3/32"	0.22	—	12 or 14 W	0	435	360
SV3304	SV3304-NO	1/8"	1/8"	0.28	8 W	—	0	145	85
		1/8"	1/8"	0.28	—	12 or 14 W	0	360	260/290‡
SV3305	SV3305-NO	1/8"	3/16"	0.45	8 W	—	0	70	30
		1/8"	3/16"	0.45	—	12 or 14 W	0	170	100/115
SV3306	SV3306-NO	1/4"	1/16"	0.10	8 W	—	0	430	260
SV3307	SV3307-NO	1/4"	5/64"	0.14	8 W	—	0	315	230
		1/4"	5/64"	0.14	—	12 or 14 W	0	505	435
SV3308	SV3308-NO	1/4"	3/32"	0.22	8 W	—	0	200	130
		1/4"	3/32"	0.22	—	12 or 14 W	0	435	360
SV3309	SV3309-NO	1/4"	1/8"	0.28	8 W	—	0	145	85
		1/4"	1/8"	0.28	—	12 or 14 W	0	360	260/290‡
SV3310	SV3310-NO	1/4"	3/16"	0.45	8 W	—	0	70	30
		1/4"	3/16"	0.45	—	12 or 14 W	0	170	100/115‡
SV3311	SV3311-NO	1/4"	7/32"	0.63	8 W	—	0	45	15
		1/4"	7/32"	0.63	—	12 or 14 W	0	100/145‡	35/70‡

* Maximum operational pressure differential.

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

‡ Rating for 12 W/14 W units as shown.

Accessories

Model No.	Description
Connectors	
SV-CGC	Replacement cable grip connector
SV-CC	1/2" conduit connector
Coils	
SV8COIL-115AC	Replacement 8 W coil for 110 to 120 Vac/50 to 60 Hz 154°C (310°F) (Class F)
SV8COIL-12DC	8 W coil for 12 Vdc 154°C (310°F) (Class F)
SV8COIL-24DC	8 W coil for 24 Vdc 154°C (310°F) (Class F)
SV8COIL-24AC/60HZ	8 W coil for 24 Vac/50 to 60Hz 182°C (360°F) (Class F)
SV8COIL-220AC	8 W coil for 220 to 240 Vac/50 to 60 Hz 154°C (310°F) (Class F)
SV8COIL-115/60HZ	8 W coil for 115 Vac/60 Hz 182°C (360°F) (Class H)
SV12COIL-120/60HZ	12 W coil for 120 Vac/60 Hz 154°C (310°F) (Class F)
SV12COIL-12DC	12 W coil for 12 Vdc 154°C (310°F) (Class F)
SV12COIL-24DC	12 W coil for 24 Vdc 154°C (310°F) (Class F)
SV14COIL-24DC	14 W coil for 24 Vdc 182°C (360°F) (Class H)
SV14COIL-24/50-60HZ	14 W coil for 24 Vdc/50 to 60Hz 182°C (360°F) (Class H)
SV14COIL-12DC	14 W coil for 12 Vdc 182°C (360°F) (Class H)

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

Ordering Examples: SV3309, 1/4" normally closed valve for 1/8" orifice.

SV3303-NO, 1/8" normally open valve for 3/32" orifice.