

OMEGA-FLO® 2-WAY GENERAL PURPOSE SOLENOID VALVES

SV3200 Series



- ✓ Ideal for Compressed Air, Inert Gas, Water, and Synthetic Oils
- ✓ Normally Closed
- ✓ Process Temperature to 137°C (280°F)

SV3200 Series 2-way solenoid valves are direct-acting valves featuring stainless steel construction and PTFE 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: 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):

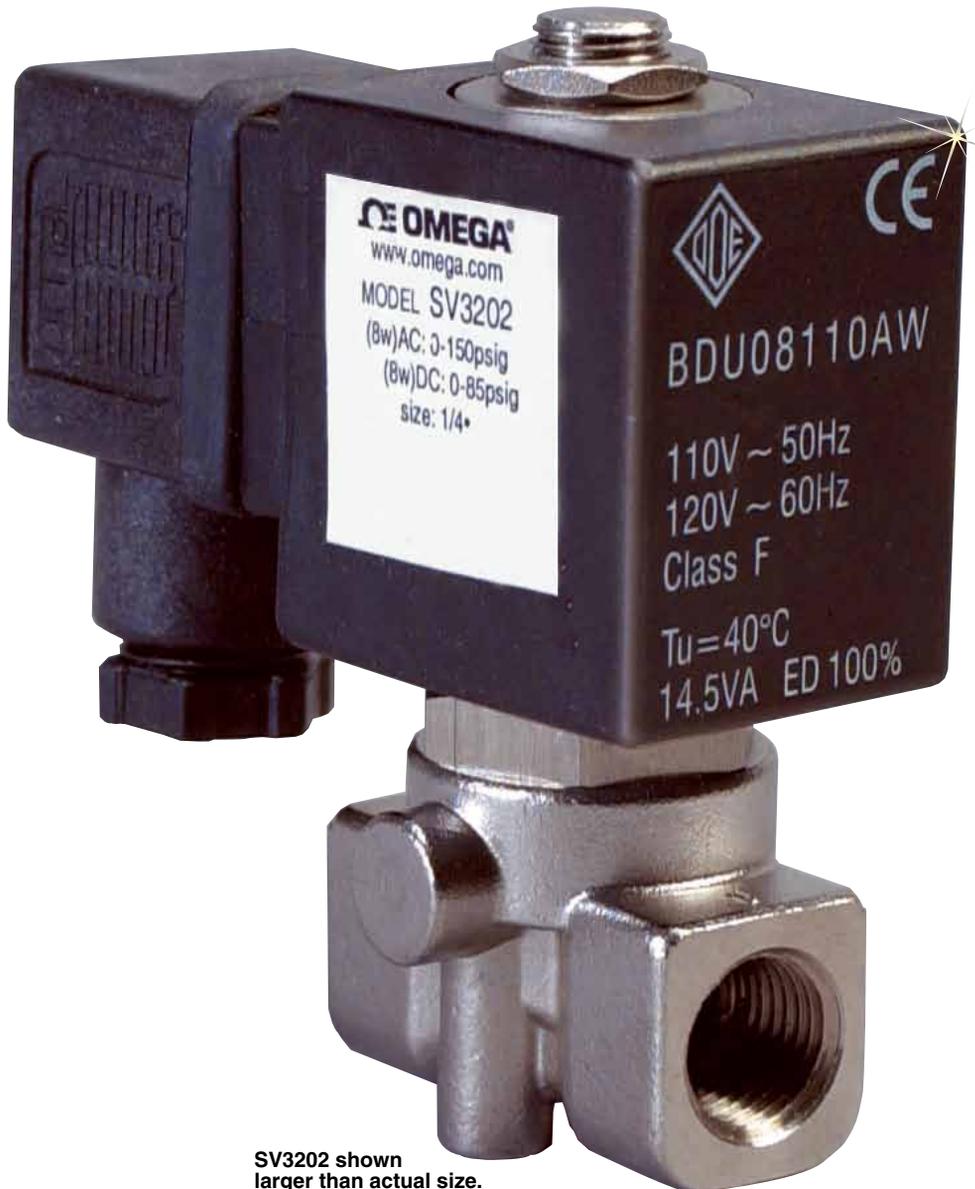
SV8COIL-12DC, SV8COIL-24DC, all 12 W coils

Black Polyphenylsulfide (Class H):

SV8COIL-115/60HZ

Black Epoxy Resin (Class H):

All 14 W coils

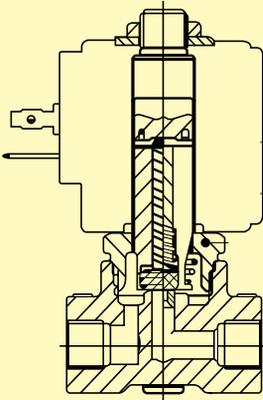


SV3202 shown larger than actual size.

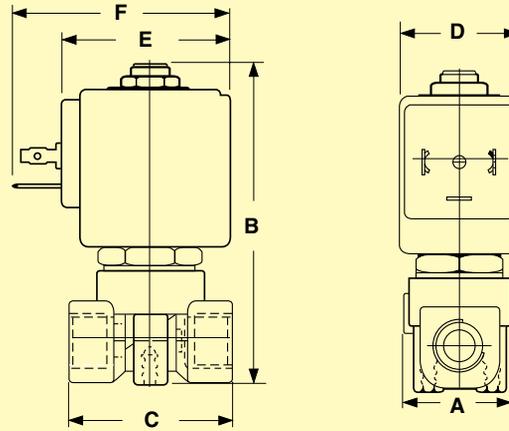
| Materials of Construction | |
|---------------------------|---------------------|
| Body | Stainless Steel 316 |
| Armature Tube | Stainless Steel 300 |
| Fixed Core | Stainless Steel 400 |
| Plunger | Stainless Steel 400 |
| Spring | Stainless Steel 300 |
| Shading Ring | Gold-Plated Copper |
| Orifice | Stainless Steel 316 |
| Seal Material | PTFE |

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

Normally Closed



SV3200 Valve Dimensions



Coil Dimensions

| Coil | D | E | F |
|------|----------------------------------|-----------------------------------|---------------------------------|
| 8 W | 1 ³ / ₁₆ " | 12 ¹ / ₃₂ " | 2 ¹ / ₈ " |
| 12 W | 1 ⁷ / ₁₆ " | 12 ⁹ / ₃₂ " | 2 ³ / ₈ " |
| 14 W | 2 ¹ / ₁₆ " | 2 ⁵ / ₃₂ " | 2 ⁵ / ₈ " |

Valve Dimensions

| Pipe Size | A | B | C |
|-----------|----------------------------------|----------------------------------|---------------------------------|
| 1/4" | 1 ¹ / ₃₂ " | 3 ¹ / ₁₆ " | 1 ⁵ / ₈ " |

To Order

| Model No. | Pipe Size† | Orifice Size | CV Flow Factor | Coils | | Operating Pressure | | |
|-----------|------------|--------------|----------------|----------|------------|--------------------|-----------|----------|
| | | | | | | Min psi | M.O.P.D.* | |
| | | | | Standard | Optional | | AC psi | DC psi |
| SV3201 | 1/4" | 3/32" | 0.22 | 8 W | | 0 | 200 | 130 |
| | | | | | 12 or 14 W | | 435 | 360 |
| SV3202 | 1/4" | 1/8" | 0.28 | 8 W | | 0 | 145 | 85 |
| | | | | | 12 or 14 W | | 360 | 245/290‡ |
| SV3203 | 1/4" | 5/32" | 0.35 | 8 W | | 0 | 85 | 25 |
| | | | | | 12 or 14 W | | 220 | 85/115‡ |
| SV3204 | 1/4" | 7/32" | 0.63 | 8 W | | 0 | 50 | 15 |
| | | | | | 12 or 14 W | | 100 | 30/70‡ |

* Maximum operational pressure differential.

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

‡ Ratings for 12 W/14 W as shown.

Accessories

| Model No. | Description |
|---------------------|---|
| Connectors | |
| SV-CGC | 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: SV3201, 1/4" normally closed valve for 3/32" orifice.

SV3202, 1/4" normally closed valve for 1/8" orifice with SV8COIL-24DC, 8 W coil for 24 Vdc.