

# OMEGA-FLO® 2-WAY HIGH PRESSURE SOLENOID VALVES

1/2 to 2 NPT

SV-501



SV-501 shown larger than actual size.

- ✓ For Gases or Liquids
- ✓ Temperatures to 99°C (210°F)
- ✓ 120 Vac Standard (DC Optional)

The SV-500 Series comprises 2-way, normally closed, internally piloted piston solenoid valves. These valves have an epoxy-encapsulated coil, a brass body, PTFE sealing material for the main seat, FKM O-rings and core seals, and a temperature range of 0 to 100°C (32 to 212°F). SV-500 Series valves are ideal for neutral media such as compressed air, hot air, water, and oxygen, and for use in breweries, fire prevention systems, water supply, and air conditioning installations. Electrical connection is by conduit plug.

## SPECIFICATIONS

### Mounting Position:

Any (preferably with solenoid system upright)

**Max Ambient Temp:** 54°C (130°F)

**Voltage Tolerance:** ±10%

**Power Consumption in Warm State:**

AC: 21 VA (inrush); 12 VA/8 W (hold)

DC: 8 W

### Response Times

Orifice Size	Opening Time (ms)	Closing Time (ms)
7/16"	20 to 40	100 to 250
3/4", 1"	100 to 400	300 to 1500
1 1/4", 1 1/2"	100 to 700	600 to 1500
2"	500 to 1200	1500 to 5000

Response times are measured at outlet A on energizing/de-energizing until attainment of pressure rise to 90%/pressure drop to 10% at working pressure of 85 psi.

**Cycling Rate:** Up to 250 cpm with lubrication

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

### Options (no additional charge)

Ordering Suffix	Description
-24VDC	24 Vdc operation
-12VDC	12 Vdc operation
-240VAC	240 Vac operation

Options not available on all sizes.

## To Order

Model No.	Port Connection (NPT)	CV	Pressure Range (psi)				Orifice Dia (inch)	Weight kg (lb)
			Water		Air			
			AC	DC	AC	DC		
SV-501	1/2	2.4	14.5 to 362	14.5 to 362	14.5 to 362	14.5 to 362	7/16	0.6 (1.3)
SV-502	3/4	5.8	14.5 to 362	14.5 to 362	14.5 to 362	14.5 to 362	3/4	1.2 (2.7)
SV-503	1	11.7	14.5 to 362	14.5 to 362	14.5 to 362	14.5 to 362	1	1.7 (3.8)
SV-504*	1 1/4	21	14.5 to 362	14.5 to 232	14.5 to 362	14.5 to 232	1 1/4	2.9 (6.3)
SV-505*	1 1/2	21	14.5 to 362	14.5 to 232	14.5 to 362	14.5 to 232	1 1/2	3.3 (7.3)
SV-506*	2	42	14.5 to 362	14.5 to 232	14.5 to 362	14.5 to 232	2	5.8 (12.8)

Comes with complete operator's manual.

\* Note: Only the SV-501, SV-502 and SV-503 are UL and CSA approved.

Ordering Example: SV-501, brass valve, 1/2 NPT connection.