

# TRODEKS-FLO® 2-WAY ZERO DIFFERENTIAL SOLENOID VALVES

## SV3500 Series



- ✓ Normally Closed, Assisted Lift Design
- ✓ Ideal for Compressed Air, Inert Gas, and Water
- ✓ Process Temperature to 90°C (195°F)
- ✓ 8 W, AC Coils Standard
- ✓ 12 or 14 W, AC or DC Coils Available

SV-3500 Series 2-way zero differential solenoid valves are internally piloted with assisted lift valves featuring Brass, stainless steel construction and NBR and PA seal material. The temperature range from -10 to 90°C (14 to 195°F) is ideal for neutral media such as compressed air, inert gases, and water.

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 Temp:** -10 to 90.5°C (14°F to 195°F) due to NBR (Buna) and PA (polyimide)

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

**Voltage Tolerance:** ±10%

**Opening Time (msec):**

**AC and DC:**

100 to 1000 approximately

**Closing Time (msec):**

**AC and DC:**

700 to 4000 approximately

**Cycling Rate:**

Approximate 10 to 20 cpm

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

**Coil Molding Material:**

**Black Polyester (Class F):**

SV8COIL-115AC, SV8COIL-24AC/60HZ, SV8COIL-220AC

**Black Polyamide (Class F):**

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

**Black Polyphenylsulphide (Class H):**

SV8COIL-115/60HZ

**Black Epoxy Resin**

**(Class H):** All 14 Watt coils



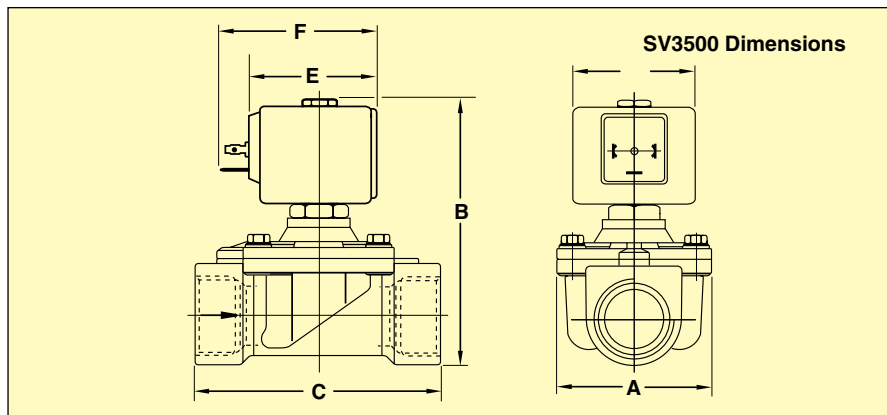
SV3501 shown larger than actual size.

### Materials of Construction

<b>Body</b>	Brass
<b>Armature Tube</b>	Stainless Steel 300
<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>	NBR and PA

### 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
1/4, 3/8 NPT	1 <sup>31</sup> / <sub>32</sub> "	3 <sup>1</sup> / <sub>2</sub> "	2 <sup>7</sup> / <sub>32</sub> "
1/2, 3/4 NPT	1 <sup>31</sup> / <sub>32</sub> "	3 <sup>15</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>4</sub> "
1 NPT	2 <sup>9</sup> / <sub>16</sub> "	4 <sup>13</sup> / <sub>32</sub> "	4 <sup>3</sup> / <sub>32</sub> "

Coil Dimensions			
Coil	D	E	F
8 W	1 <sup>3</sup> / <sub>16</sub> "	1 <sup>21</sup> / <sub>32</sub> "	2 <sup>1</sup> / <sub>8</sub> "
12 W	1 <sup>7</sup> / <sub>16</sub> "	1 <sup>29</sup> / <sub>32</sub> "	2 <sup>3</sup> / <sub>8</sub> "
14 W	2 <sup>1</sup> / <sub>16</sub> "	5 <sup>7</sup> / <sub>32</sub> "	2 <sup>5</sup> / <sub>8</sub> "

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
SV3501	1/4"	7/16"	1.4	8 W		0	200	75
	1/4"	7/16"	1.4		12 or 14 W	0	200	200
SV3502	3/8"	7/16"	1.4	8 W		0	200	75
	3/8"	7/16"	1.4		12 or 14 W	0	200	200
SV3503	1/2"	5/8"	2.8	8 W		0	200	35
	1/2"	5/8"	2.8		12 or 14 W	0	200	160/200‡
SV3504	3/4"	5/8"	2.8	8 W		0	200	35
	3/4"	5/8"	2.8		12 or 14 W	0	200	160/200‡
SV3505	1"	1"	8.3	8 W		0	116	0
	1"	1"	8.3		12 or 14 W	0	200	22/85‡

\* Maximum operational pressure differential.

‡ Ratings for 12 W/14 W as shown.

## Accessories

Model No.	Description
<b>Connectors</b>	
SV-CGC	Replacement cable grip connector
SV-CC	1/2" conduit connector
<b>Coils</b>	
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/60Hz 154°C (310°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)
<b>Repair Kits (Include Diaphragm, Spring, Plunger, and O-rings)</b>	
VRK-3512	Repair kit for SV3501 and SV3502
VRK-3534	Repair kit for SV3503 and SV3504
VRK-3505	Repair kit for SV3505

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

**Ordering Examples:** SV3501, 1/4" valve for 7/16" orifice.

SV3503, 1/2" valve for 5/8" orifice.