

# 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 1/2" 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

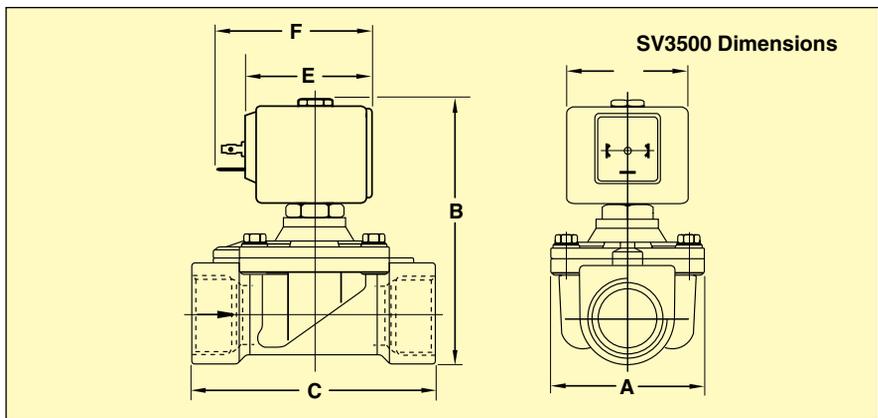
**Cycling Rate:** Approximate 10 to 20 cpm  
**Duty Cycle:** Continuous (100%)  
**Coil Molding Material:**  
**Black Polyester (Class F):** SV8COIL-115AC, SV8COIL-24AC/60HZ, SV8COIL-220AC  
**Black Polyamide (Class F):** SV8COIL-12DC, SV8COIL-24DC, all 12 Watt coils  
**Black Polyphenylsulfide (Class H):** SV8COIL-115/60HZ  
**Black Epoxy Resin (Class H):** All 14 Watt coils



SV3501 shown larger than actual size.

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	Brass
Sealing Material	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		
				Standard	Optional	Min psi	M.O.P.D.*	
							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.

