SOLENOID VALVES

SV120 Series

Starts at
$95

MADE IN USA

- Stainless Steel Valve Body Resists Corrosion
- Rugged NEMA 4 (IP65) Housing
- Mounts in Any Position
- Rated for Continuous Duty
- High-Pressure Models

TYPICAL APPLICATIONS

- Automation
- Humidifiers
- Water Treatment
- Dispensing
- Laundry, Dry Cleaning Equipment
- Machine Tools
- Vending Machines

The direct-acting SV121 to SV127 solenoid valves consist of a coil, plunger, and sleeve assembly. In a normally closed state, a plunger return spring holds the plunger against the orifice, preventing flow through the valve. When current flows through the coil, a magnetic field is produced and it turns the stop into an electromagnet that attracts the magnetic plunger. This action compresses the return spring, allows the body orifice to open, and permits fluid flow through the valve. The pressure and flow capabilities of the direct-acting valves are limited by the power of the solenoid.

The SV128 is a pilot-operated solenoid valve. It uses the energy stored in the pressurized fluid to actuate the valving mechanism. The valves require the minimum pressure differential specified for proper valve operation. A direct-acting solenoid valve is an integral part of the pilot-operated valve and is used to affect the balance of pressure above and below a diaphragm or piston.

SV121, $95, shown close to actual size.

SV126, $115, shown close to actual size.

SOLENOID VALVES, NORMALLY CLOSED, STAINLESS STEEL VALVE BODY

Note: *5 to 11 psi is the operating pressure range for bubble-tight sealing. Valves may leak if the pressure differential falls below 5 psi.*

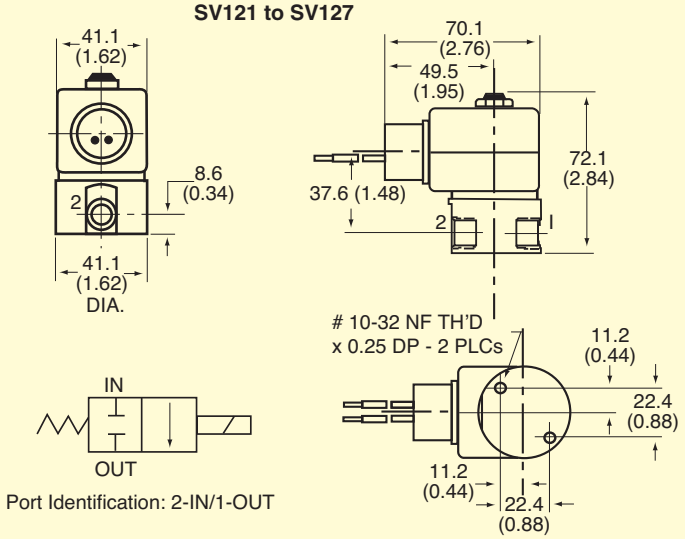
SPECIFICATIONS

Operation:
SV121 to SV127: Direct acting
SV128: Pilot operated

Wetted Parts: Stainless steel, copper and seal
Medium: Liquid or gases
Max Static Pressure: 1.5 times max psid, vacuum (>5 microns ABS)
Ambient Temp: -9 to 50°C (15 to 122°F)

Mounting: Pipe mounting, any direction
Power: 10 W, 120 Vac coils, 50 to 60 Hz
Weight: 500 g (1.1 lb)

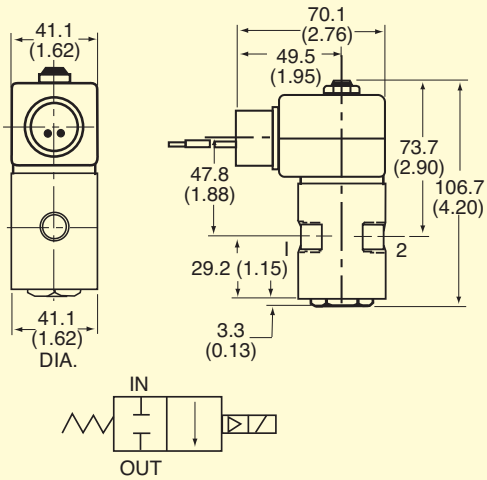
SV121 to SV127



Port Identification: 2-IN/1-OUT

Dimensions: mm (in)

SV128



Port Identification: 2-IN/1-OUT

Dimensions: mm (in)

MOST POPULAR MODELS HIGHLIGHTED!

To Order *(Specify Model Number)*

MODEL NO.	PRICE	NPT FITTING	ORIFICE	C_V	SEAL	DIFF PRESSURE (psid) MIN	DIFF PRESSURE (psid) MAX	TEMP °C	TEMP °F	RESPONSE TIME OPEN	RESPONSE TIME CLOSE
SV121	**$95**	¼	3/64"	0.06	KEL-F	0	1000	74	165	4 to 15 ms	4 to 15 ms
SV122	**115**	¼	3/64"	0.06	FKM	0	450	116	240	4 to 15 ms	4 to 15 ms
SV123	**115**	¼	1/16"	0.10	FKM	0	350	116	240	4 to 15 ms	4 to 15 ms
SV124	**115**	¼	3/32"	0.18	FKM	0	275	116	240	4 to 15 ms	4 to 15 ms
SV125	**115**	¼	⅛"	0.28	FKM	0	200	116	240	4 to 15 ms	4 to 15 ms
SV126	**115**	¼	5/32"	0.40	FKM	0	90	116	240	4 to 15 ms	4 to 15 ms
SV127	**115**	¼	¼"	0.75	FKM	0	40	116	240	4 to 15 ms	4 to 15 ms
SV128*	**255**	¼	¼"	0.76	PTFE	5	1500	99	210	30 to 60 ms	30 to 60 ms

Comes complete with operator's manual.

ACCESSORIES

MODEL NO.	PRICE	DESCRIPTION
SVCOIL-110AC	**$50**	Replacement coil, 110 Vac
SVCOIL-220AC	**60**	Replacement coil, 220 Vac
SVCOIL-24VDC	**55**	Replacement coil, 24 Vdc

Recommended Reference Book:
Valve Handbook,
GE-2317, $135.
See Section Y
For Additional Books

***** *Pilot operated.*

Note: *Some solenoid valves are available with 24 Vdc coils. Five piece minimum order. UL approval is not available with 24 Vdc coils. Specifications effected; pressure ratings may decrease; coil wattage ratings may increase. Consult Engineering.*

Ordering Examples: SV121, *direct-acting stainless steel normally closed valve with 3/64 orifice and KEL-F seal,* ***$95.***

SV128*, pilot operated stainless steel normally closed valve with ¼ orifice and PTFE seal,* ***$255.***

SOLENOID VALVES

DIRECT ACTING, NORMALLY OPEN, STAINLESS STEEL VALVE BODY

SV130 Series
All Models

- Stainless Steel Valve Body Resists Corrosion
- Rugged NEMA 4 (IP65) Housing
- Mounts in Any Position
- Rated for Continuous Duty

TYPICAL APPLICATIONS
- Automation
- Humidifiers
- Water Treatment
- Dispensing
- Laundry, Dry Cleaning Equipment
- Machine Tools
- Vending Machines

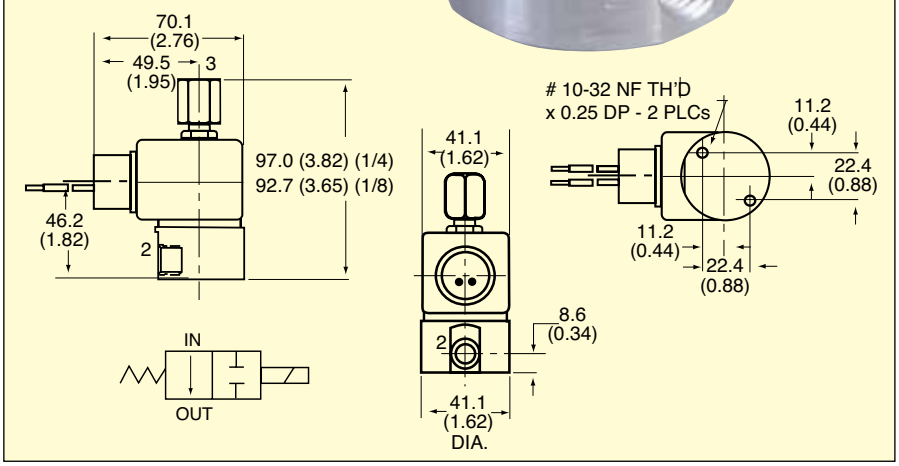
The SV130 Series direct-acting solenoid valves consist of a coil, plunger, and sleeve assembly. In a normally open valve, a plunger return spring holds the plunger away from the orifice, allowing flow through the valve. When current flows through the coil, a magnetic field is produced and it turns the stop into an electromagnet that attracts the magnetic plunger.

This action compresses the return spring and brings the plunger against the orifice to prevent flow through the valve.

SPECIFICATIONS
Wetted Parts: Stainless steel, copper and seal
Medium: Liquid or gases
Max Static Pressure: 1.5 times max psid, vacuum (>5 microns ABS)
Ambient Temp: -9 to 50°C (15 to 122°F)
Mounting: Pipe mounting, any direction
Power: 10 W, 120 Vac coils, 50 to 60 Hz
Weight: 500 g (1.1 lb)

SV133, shown smaller than actual size.

Dimensions: mm (inch)



To Order

MODEL NO.	NPT FITTING	ORIFICE	C_V	SEAL	DIFF PRES (psid) MIN	DIFF PRES (psid) MAX	TEMP °C	TEMP °F	RESPONSE TIME OPEN	RESPONSE TIME CLOSE
SV131	¼	3/64"	0.05	FKM	0	400	116	240	4 to 15 ms	4 to 15 ms
SV132	¼	1/16"	0.11	FKM	0	325	116	240	4 to 15 ms	4 to 15 ms
SV133	¼	3/32"	0.15	FKM	0	250	116	240	4 to 15 ms	4 to 15 ms

ACCESSORIES

MODEL NO.	DESCRIPTION
SVCOIL-110AC	Replacement coil, 110 Vac
SVCOIL-220AC	Replacement coil, 220 Vac
SVCOIL-24DC	Replacement coil, 24 Vdc

Note: *Some solenoid valves are available with 24 Vdc coils. 5 piece minimum order. UL approval is not available with 24 Vdc coils. Specifications effected; pressure ratings may decrease; coil wattage ratings may increase. Consult Engineering.*
Ordering Example: SV131, *¼ NPT direct-acting stainless steel normally open valve with a 3/64" orifice and FKM seal.*

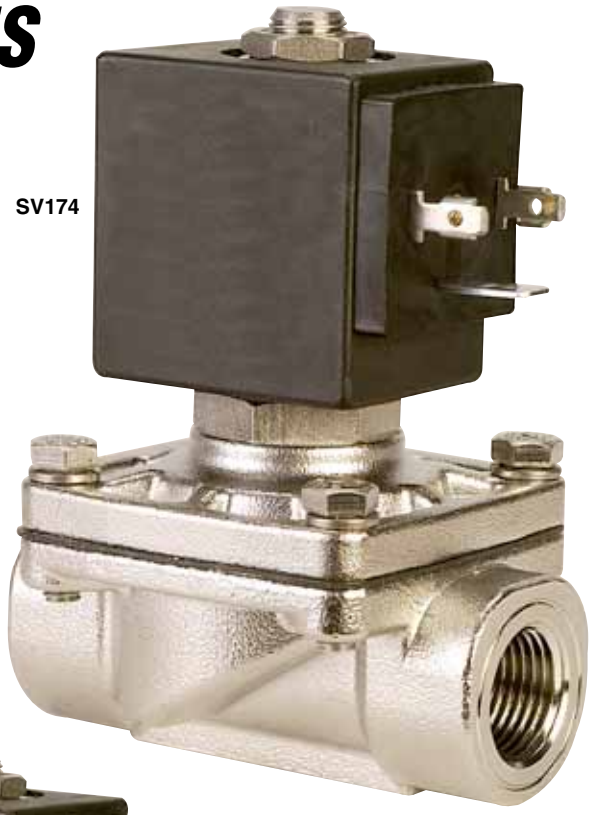
STEEL SOLENOID VALVES

SV170 Series

1 YEAR WARRANTY

- Lead Free
- Normally Closed
- Ideal for Hot Water and Steam
- 8 W, AC Coils Standard Up to 1"
- 14 W, DC Coils Standard on Larger Units

SV170 Series 2-way 316 SS solenoid valves are internally piloted. They feature 316 stainless steel construction and FKM seal material. The temperature range of -10 to 138°C (14 to 280°F) and the FKM O-ring make these valves ideal for many aggressive liquids and gases. A strain-relief connector is supplied with each unit. A ½" conduit plug is also available.



SV174

SV173

All models shown smaller than actual size.

SV171

SPECIFICATIONS

Mounting Position: Any (preferably with solenoid system upright)
Maximum Process Temperature: -10 to 138°C (14 to 280°F) FKM O-ring
Maximum Ambient Temperature: Coil dependent (see ratings on coils)
Voltage Tolerance: ±10% AC, ±5% DC
Opening Time (ms): Approximately 100 to 200
Closing Time (ms): Approximately 200 to 1200
Cycling Rate: Approximately 60 cpm
Duty Cycle: Continuous (100%)
Coil Molding Material:
Black Polyphenylensulphide (Class H):
SV8COIL-115/60 HZ
SV8COIL-220/60 HZ
Black Epoxy Resin (Class H):
All 14 W coils, NEMA 4

Materials of Construction	
Body	316 SS
Armature Tube	Stainless steel 300
Fixed Core	Stainless steel 400
Plunger	Stainless steel 400
Spring	Stainless steel 300
Shading Ring	Gold-Plated Copper

Coil Molding Material:
Black Polyphenylensulphide (Class H):
SV8COIL-115/60 HZ
SV8COIL-220/60 HZ
Black Epoxy Resin (Class H):
All 14 W coils, NEMA 4

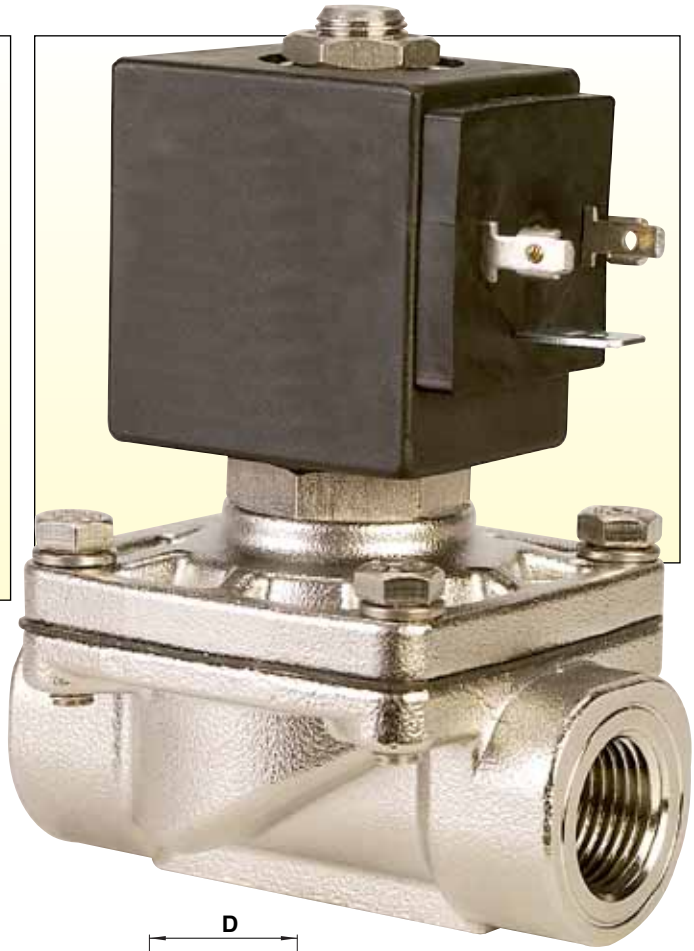
Coil Specifications		
Watt	Inrush VA	Holding VA
8.0	25.0	14.0
14.0	43.0	27.0

J

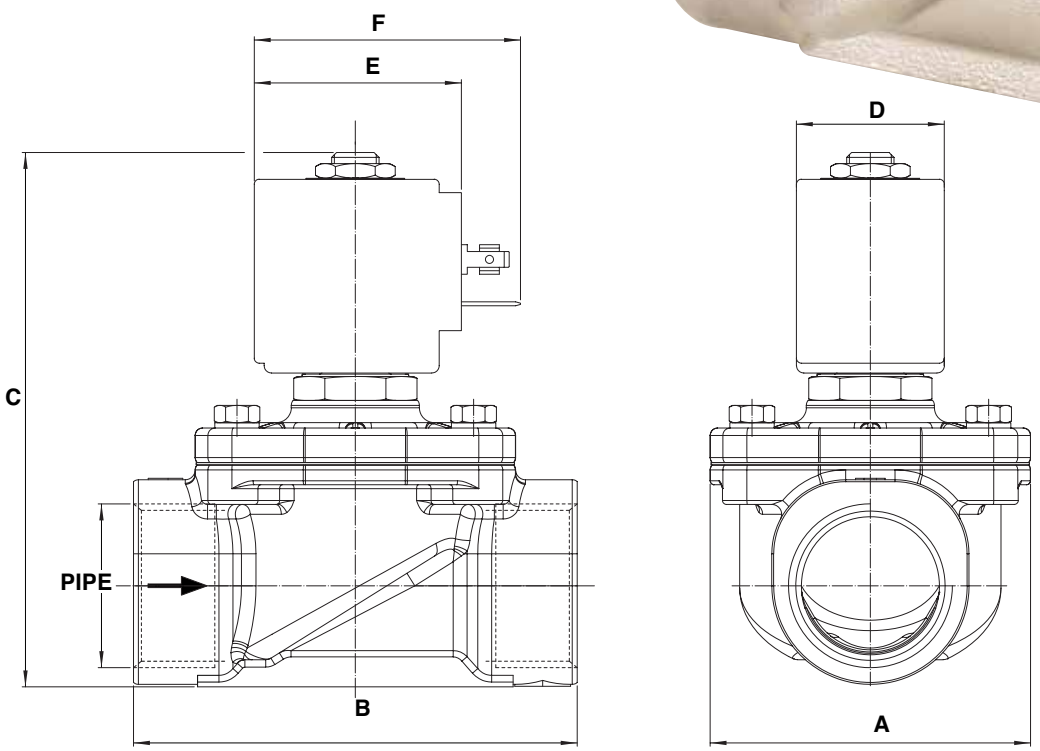
Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it

SV-CC, ½" conduit connector, shown larger than actual size.

SV-CGC replacement cable grip connector, shown larger than actual size.



SV176 shown smaller than actual size.



Valve and Coil Dimensions: mm (inch)

Model No.	Valve Width (A)	Valve Length (B)	Valve Height (C)	Coil Width (D)	Coil Length (E)	Coil Length (F)
SV171/SV172	50.8 (2)	92.07 (3.625)	68.3 (2.69)	30.1 (1.188)	42.2 (1.656)	54 (2.125)
SV173	57.94 (2.281)	100 (3.938)	74.6 (2.938)	30.1 (1.188)	42.1 (1.656)	54 (2.125)
SV174	65.07 (2.562)	90.4 (3.562)	110 (4.312)	30.1 (1.188)	42.1 (1.656)	54 (2.125)
SV175/176	94.43 (3.718)	127 (5)	129 (5.093)	52.4 (2.062)	54.8 (2.156)	66.7 (2.625)

To Order

316 Stainless Steel				Operating Pressure				
				Coil			M.O.P.D.*	
Normally Closed Model No.	Pipe Size NPT	Orifice Size	Cv Flow Factor	Standard	Optional	MIN psi	AC psi	DC psi
SV171†	⅜	9⁄16"	2.8	8 W	12/14 W	0	200	85
SV172†	½	⅝"	3.4	8 W	12/14 W			
SV173†	¾	13⁄16"	4.1	8 W	12/14 W			
SV174†	1	1	9.7	8 W	12/14 W		200	45
SV175††	1¼	1⅜	20.1	14 W	—		200	0
SV176††	1½	1⅝16	23.4	14 W	—			

***** *Maximum operating pressure differential.*
† *8 W AC coils are standard on valves up to 1".*
†† *14 W DC coils are standard on valves larger than 1".*

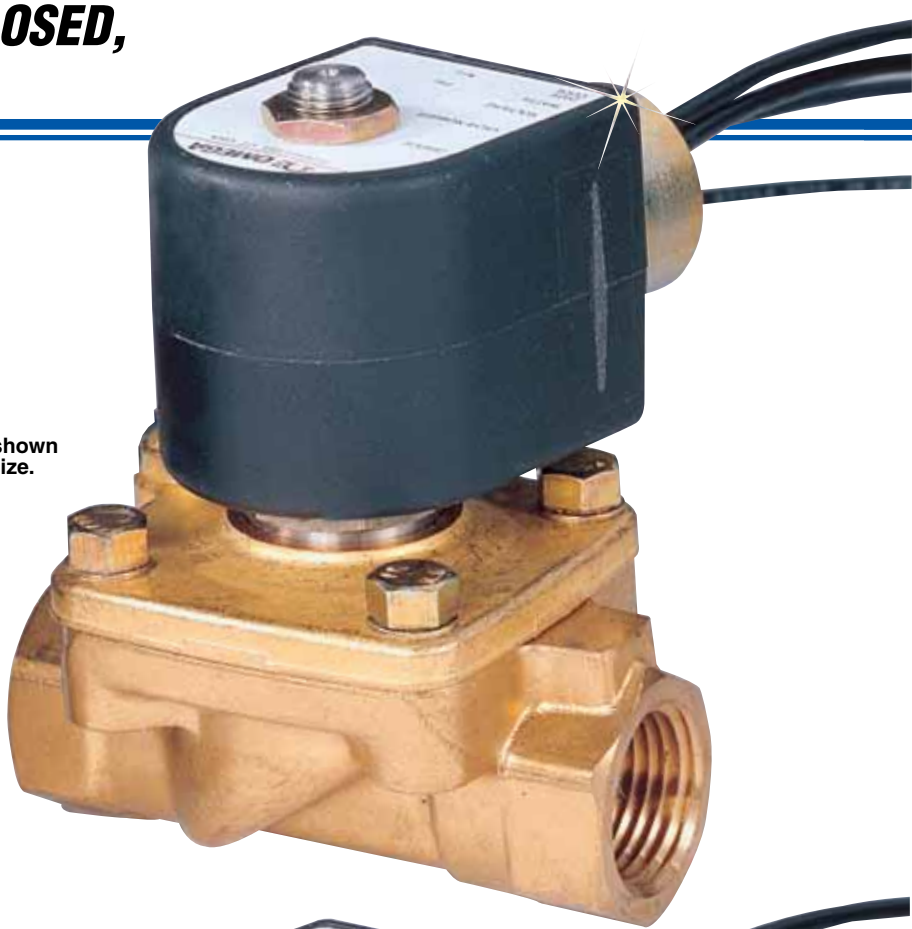
Accessories

Connectors	
Model No.	**Description**
SV-CGC	Replacement cable grip connector
SV-CC	½" conduit connector
Coils	
SV8COIL-115AC	8 W coil for 110 to 120 Vac/50 to 60 Hz 154°C (310°F) (Class F), standard up to 1"
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/60 Hz 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), standard above 1"
SV14COIL-24/50-60HZ	14 W coil for 24 Vdc/50 to 60 Hz 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, coil, and cable grip.
Ordering Examples: SV171, *⅜ NPT, 316 SS normally closed solenoid valve with 8 W AC coil.*
SV176, *1½ NPT, 316 SS normally closed solenoid valve with 14 W DC coil.*

DIRECT LIFT, NORMALLY CLOSED, BRASS VALVE BODY

SV220 Series



SV223 shown actual size.

- Rated for 99°C (210°F) Hot Water
- Rugged NEMA 4 (IP65) Housing
- Mounts in Any Position
- Rated for Continuous Duty

TYPICAL APPLICATIONS

- Heating and Cooling
- Commercial Dish Washing Equipment
- Car Washing Equipment
- Food Processing
- Commercial Laundry Equipment
- Bottle Washing
- Sterilizing Equipment

SV222, shown actual size.

The SV220 Series valves are designed for hot water applications in which the valve must operate at times when the pressure drop across the valve falls into the 0 to 5 psi range. The SV222 through SV225 valves are able to control hot water up to 150 psi at 99°C (210°F).
The seals are made of ethylene propylene, for hot water compatibility over a wide temperature range as well as trouble-free, bubble-tight service.

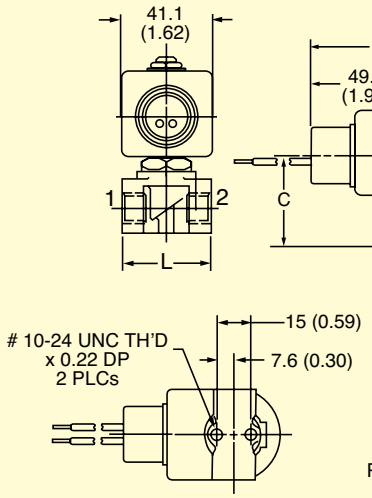
The SV221 through SV225 are direct-lift valves, which combine the features of a direct-acting valve with those of a pilot-operated valve. Because of a flexible link between the solenoid plunger and the diaphragm, the direct-lift valve functions as a direct-acting valve at low pressures and as a pilot-operated valve at high pressures. It is sometimes referred to as a zero delta pressure valve or a

DIRECT LIFT, NORMALLY CLOSED, BRASS VALVE BODY, HOT WATER SOLENOID VALVES

SPECIFICATIONS

Operation: Direct lift
Wetted Parts: Brass, stainless steel, copper and seal
Medium: Liquid or gases
Max Static Pressure: 5 times max psid
Ambient Temp: -9 to 50°C (15 to 122°F)
Mounting: Pipe mounting, any direction
Power: 10 W, 120 Vac, Class F

SV221

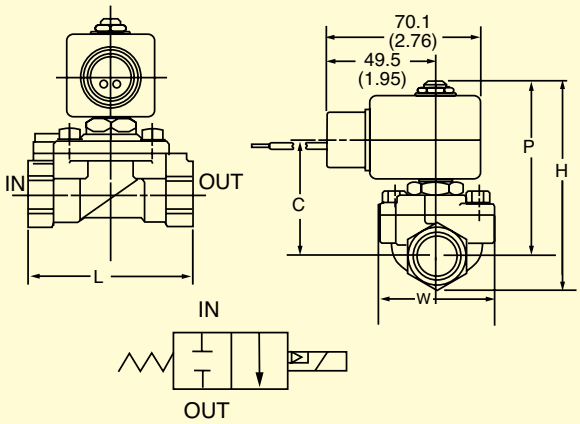


Port Identification: 1-IN/2-OUT

Dimensions: mm (inch)

VALVE	H	P	C	L
SV221	66.8 (2.63)	78.0 (3.07)	40.9 (1.61)	39.9 (1.57)

SV222 to 225



Port Identification: Flow arrow on body indicates flow direction—ports are not marked.

Dimensions: mm (inch)

VALVE	H	P	C	L	W
SV222	93.0 (3.66)	78.0 (3.07)	52.3 (2.06)	74.9 (2.95)	53.1 (2.09)
SV223	93.0 (3.66)	78.0 (3.07)	52.3 (2.06)	74.9 (2.95)	53.1 (2.09)
SV224	95.3 (3.75)	78.0 (3.07)	52.3 (2.06)	80.0 (3.15)	53.1 (2.09)
SV225	108.0 (4.25)	85.1 (3.35)	59.4 (2.34)	100.1 (3.94)	69.9 (2.75)

To Order

MODEL NO.	NPT FITTING	ORIFICE	C_V	SEAL	DIFF PRES (psid) MIN	DIFF PRES (psid) MAX	TEMP °C	TEMP °F	RESPONSE TIME OPEN	RESPONSE TIME CLOSE
SV221	¼	13⁄64"	0.76	EDPM	0	100	99	210	4 to 8 ms	4 to 8 ms
SV222	⅜	5⁄8"	4.4	EDPM	0	150	99	210	30 to 100 ms	30 to 100 ms
SV223	½	5⁄8"	4.4	EDPM	0	150	99	210	30 to 100 ms	30 to 100 ms
SV224	¾	5⁄8"	5.5	EDPM	0	150	99	210	30 to 100 ms	30 to 100 ms
SV225	1	1"	11.7	EDPM	0	150	99	210	30 to 100 ms	30 to 100 ms

Comes complete with operator's manual.

ACCESSORIES

MODEL NO.	DESCRIPTION
SVCOIL-110AC	Replacement coil, 110 Vac
SVCOIL-220AC	Replacement coil, 220 Vac
SVCOIL-24VDC	Replacement coil, 24 Vdc

Note: *Some solenoid valves are available with 24 Vdc coils. Five piece minimum order.*
UL approval is not available with 24 Vdc coils. Specifications effected; pressure ratings may decrease; coil wattage ratings may increase. Consult Engineering.

Ordering Examples: SV222, *2-way direct-lift hot water valve, NC with a brass body and ⅜ NPT fitting with EDPM seal.*
SV225 *2-way direct-lift hot water valve, NC with a brass body and 1 NPT fitting with EDPM seal.*

2-WAY STEAM SOLENOID VALVES

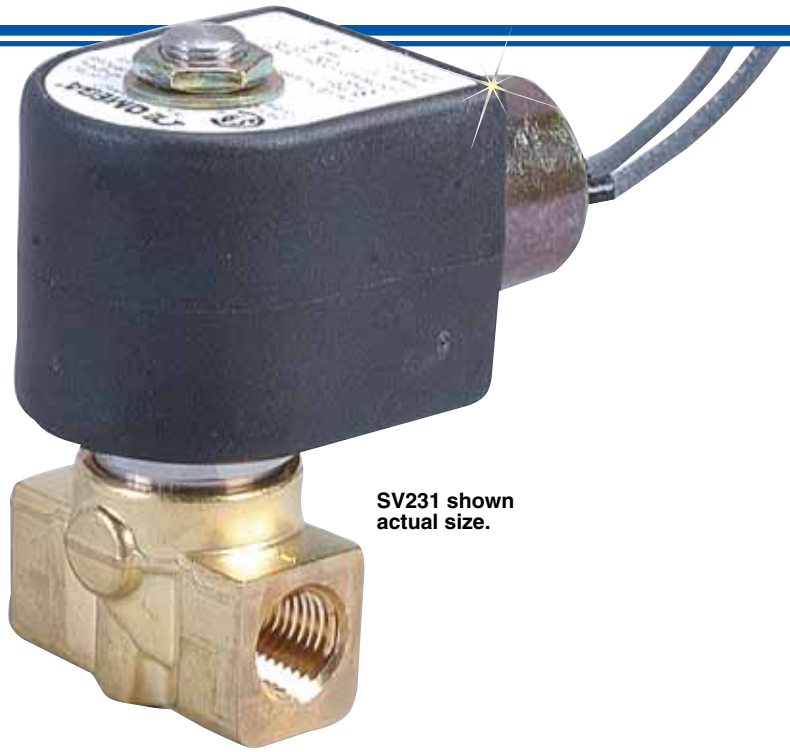
DIRECT LIFT, NORMALLY CLOSED, BRASS VALVE BODY, EPDM SEALS

SV230 Series

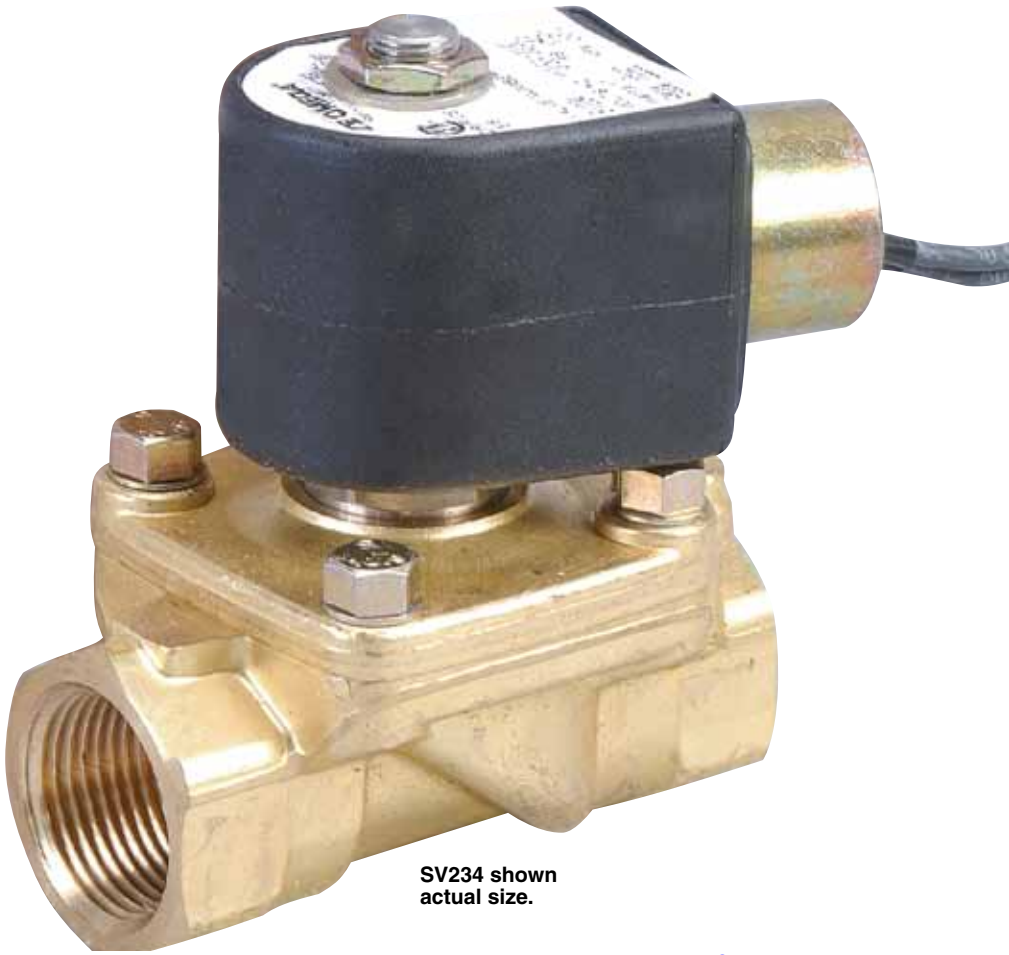
- Rated Up to 145°C (293°F) Steam
- Rugged NEMA 4 (IP65) Housing
- Mounts in Any Position
- Rated for Continuous Duty

TYPICAL APPLICATIONS

- Heating and Cooling
- Commercial Dish Washing Equipment
- Car Washing Equipment
- Food Processing
- Commercial Laundry Equipment
- Bottle Washing
- Sterilizing Equipment



SV231 shown actual size.



SV234 shown actual size.

The SV230 Series valves are designed for low-pressure steam applications in which the valve must operate when the pressure drop across the valve falls into the 0 to 5 psi range. These valves are able to control steam up to 45 psi at 145°C (293°F). All seals are made of ethylene propylene for compatibility with steam over a wide temperature range and for trouble-free, bubble-tight service.

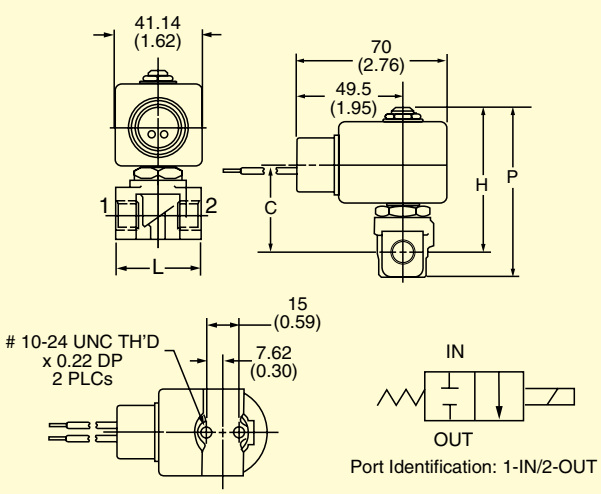
The SV231 through SV234 are direct-lift valves, which combine the features of a direct-acting valve with those of a pilot-operated valve. Because of a flexible link between the solenoid plunger and the diaphragm, the direct-lift valve functions as a direct-acting valve at low pressures and as a pilot-operated valve at high pressures. It is sometimes referred to as a zero delta pressure valve or a hung diaphragm valve.

DIRECT LIFT, NORMALLY CLOSED, BRASS VALVE BODY, STEAM SOLENOID VALVES, EPDM SEALS

SPECIFICATIONS

Operation: Direct lift
Wetted Parts: Brass, stainless steel, copper and seal
Medium: Liquid or gases
Max Static Pressure: 5 times max psid
Ambient Temp: -9 to 50°C (15 to 122°F)
Mounting: Pipe mounting, any direction
Power: 22 W, 120 Vac, 50 to 60 Hz, Class H

SV231

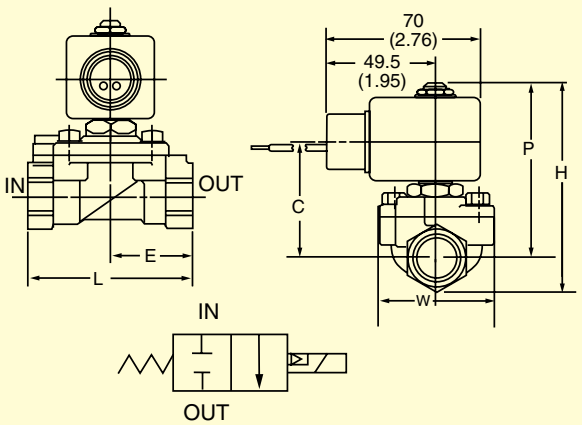


Port Identification: 1-IN/2-OUT

Dimensions: mm (inch)

VALVE	H	P	C	L
SV231	66.8 (2.63)	78.0 (3.07)	40.9 (1.61)	39.9 (1.57)

SV232 to 234



Port Identification: Flow arrow on body indicates flow direction—ports are not marked.

Dimensions: mm (inch)

VALVE	H	P	C	L	W
SV232	93.0 (3.66)	78.0 (3.07)	52.3 (2.06)	74.9 (2.95)	53.1 (2.09)
SV233	93.0 (3.66)	78.0 (3.07)	52.3 (2.06)	74.9 (2.95)	53.1 (2.09)
SV234	95.3 (3.75)	78.0 (3.07)	52.3 (2.06)	80.0 (3.15)	53.1 (2.09)

To Order

MODEL NO.	NPT FITTING	ORIFICE	C_V	SEAL	DIFF PRES (psid) MIN	DIFF PRES (psid) MAX	TEMP °C	TEMP (°F)	RESPONSE TIME OPEN	RESPONSE TIME CLOSE
SV231	¼	13⁄64"	0.76	EPDM	0	40	141	285	4 to 8 ms	4 to 8 ms
SV232	⅜	⅝"	4.4	EPDM	0	45	145	293	30 to 100 ms	350 to 900 ms
SV233	½	⅝"	4.4	EPDM	0	45	145	293	30 to 100 ms	350 to 900 ms
SV234	¾	⅝"	5.5	EPDM	0	45	145	293	30 to 100 ms	350 to 900 ms

Comes complete with operator's manual.

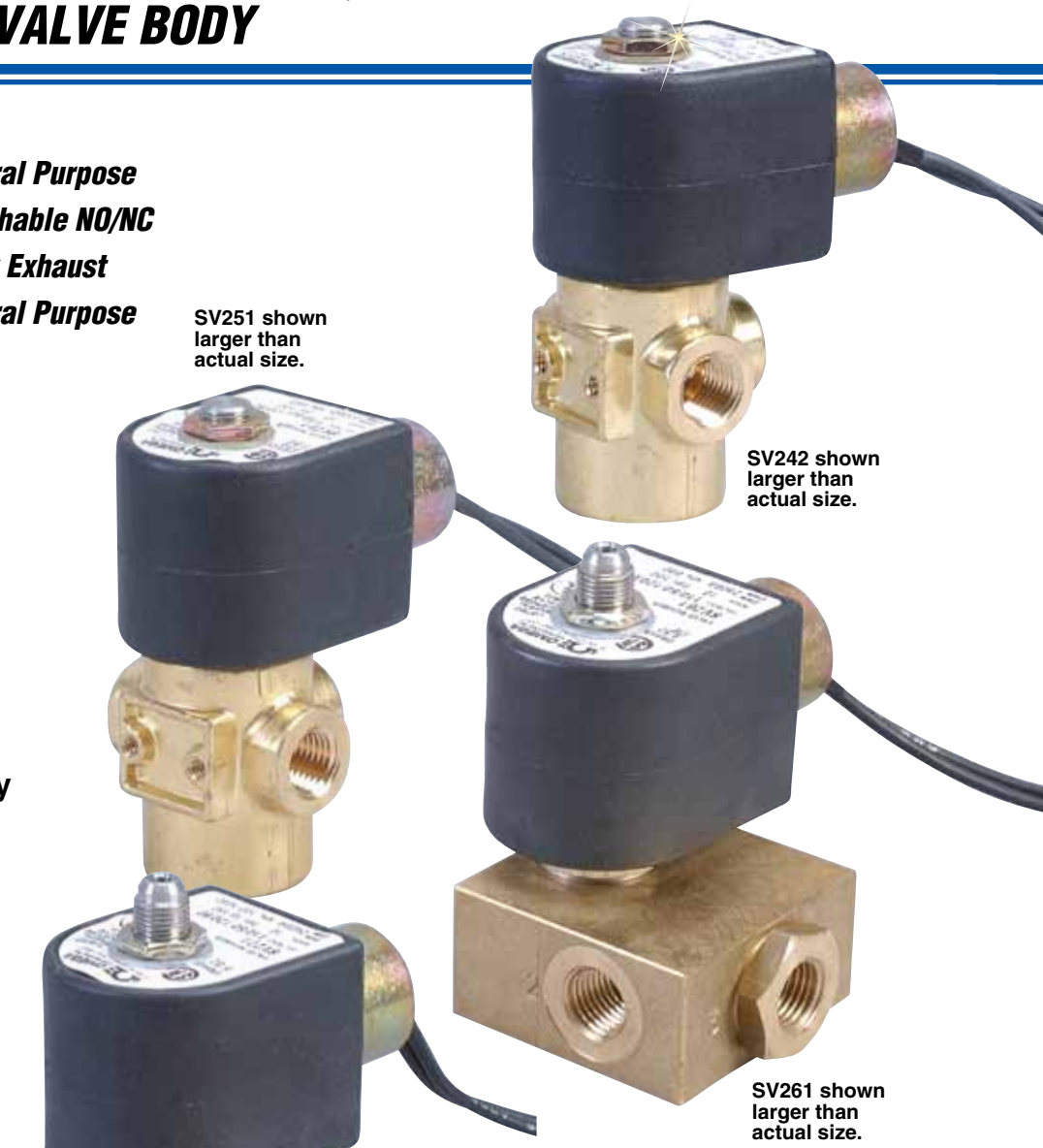
Note: *Some solenoid valves are available with 24 Vdc coils. Five piece minimum order. UL approval is not available with 24 Vdc coils. Specifications effected; pressure ratings may decrease; coil wattage ratings may increase. Consult Engineering.*

Ordering Examples: SV232, *2-way direct-lift steam valve, NC with a brass body and ⅜ NPT fitting with EPDM seal.*

SV234, *2-way direct-lift steam valve, NC with a brass body and a ¾" NPT fitting and EPDM seals.*

DIRECT-ACTING OR PILOT-OPERATED, NORMALLY OPEN OR CLOSED, BRASS VALVE BODY

SV240 Series 3-Way General Purpose
SV250 Series 3-Way Switchable NO/NC
SV260 Series 3-Way Quick Exhaust
SV270 Series 4-Way General Purpose



SV251 shown larger than actual size.

SV242 shown larger than actual size.

SV261 shown larger than actual size.

SV271 shown larger than actual size.

- General Purpose, Quick Exhaust, and Selectable NO/NC Models
- Rugged NEMA 4 (IP65) Housing
- Mounts in Any Position
- Rated for Continuous Duty

TYPICAL APPLICATIONS

- Mobile Equipment
- Gas Sampling
- Compressors
- Ball Valve Actuators
- Cylinders
- Dispensing
- Laundry Equipment
- Machine Tool Equipment

The SV241, SV242, and SV261 Series valves are 3-way, direct-acting, and normally closed. The SV241 and SV242 can be used for liquids or gases, while the SV261 offers a quick-exhaust feature and is limited to air use. The most common application for these 3-way valves is the control of single-acting cylinders or spring-return actuators. The pressure inlet port is blocked in the de-energized position.

A 3-way normally closed valve has 3 ports labeled 1, 2, and 3. When de-energized, no flow occurs from port 1, but there is flow from port 2 to 3. When energized, flow occurs from port 1 to 2, but no flow occurs from port 3. Usually, 3-way valves are used to control larger pneumatically activated valves. Port 1 is connected to the pressure source, port 2 is connected to the cylinder controlling the pneumatic activation, and port 3 is the exhaust port vented to the room.

The SV251 is a multipurpose 3-way valve and can be used as normally open or normally closed. During installation, for normally closed select port 1 as supply pressure. Port 2 is connected to the pneumatic cylinder, and port 3 is the exhaust port. To configure as normally open, select port 3 as supply pressure. Port 2 is connected to the pneumatic cylinder, and port 1 is the exhaust port. The SV251 can be used for liquids or gases.

The SV271 is a 4-way, 5-ported solenoid valve, rated for air applications only. It is a 2-position, pilot-operated valve typically used to control double-acting cylinders or pneumatic actuators. A 4-way valve has ports labeled 1, 2, 3, 4, and

DIRECT ACTING OR PILOT OPERATED, NORMALLY OPEN OR CLOSED, BRASS VALVE BODY, 3- OR 4-WAY SOLENOID VALVES

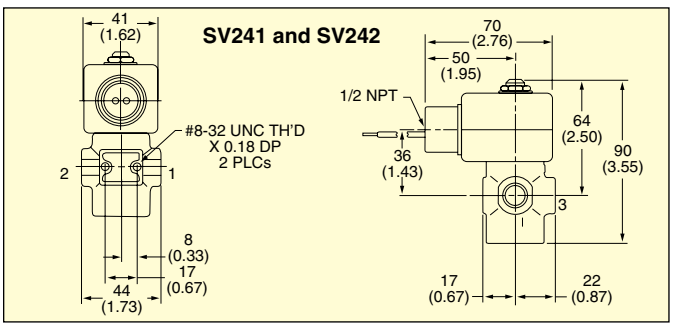
5. When de-energized, pressure is supplied to port 1, which is open to cylinder port 4 and closed to cylinder port 2. Port 4 is closed to exhaust port 3. When energized, pressure port 1 is closed to cylinder port 4 and open to cylinder port 2. Cylinder port 2 is closed to exhaust port 3. Cylinder port 4 is open to exhaust port 5.

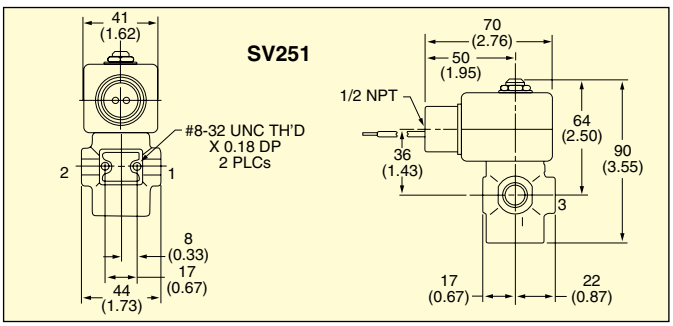
SPECIFICATIONS

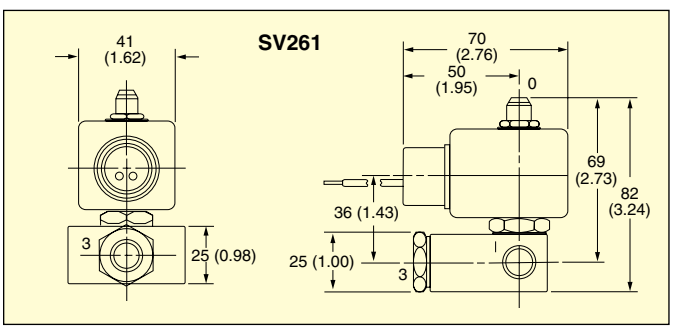
Operation:
SV241, SV242 and SV251: Direct acting
SV261, SV271: Pilot operated

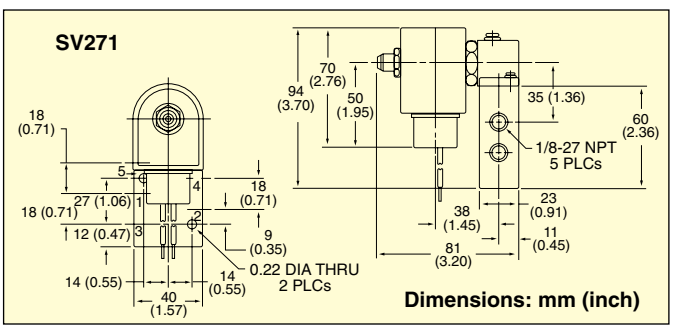
Wetted Parts: Brass, stainless steel, copper and seal
SV241: Also Delrin
SV271: Aluminum, Delrin, stainless steel, copper and seal

Medium: Liquid or gases as specified in "To Order" chart
Max Static Pressure: 5 times max psid
Ambient Temp: -9 to 50°C (15 to 122°F)
Mounting: Pipe mounting, any direction
Power: 10 W, 120 Vac coils, 50 to 60 Hz









To Order

MODEL NO.	NPT FITTING	ORIFICE	C_V	SEAL	DIFF PRES (psid) MIN	DIFF PRES (psid) MAX	TEMP °C (°F)	RESPONSE TIME OPEN	RESPONSE TIME CLOSE
3-Way General Purpose, Direct Acting, Normally Closed, Brass Body									
SV241	1/4	5/64, 1/8	0.17, 0.31	FKM	0	150	116 (240)	10 ms	10 ms
SV242	1/4	3/32, 9/64	0.24, 0.38	FKM	0	100	116 (240)	10 ms	10 ms
3-Way Selectable Service, Direct Acting, User-Selectable NO or NC, Brass Body									
SV251	1/4	5/64, 5/64	0.17, 0.17	FKM	0	100	116 (240)	10 ms	10 ms
3-Way Quick Exhaust, Pilot Operated, Normally Closed, Brass Body, Air Only									
SV261	1/4	3/32, 1/4	0.20, 1.1	Buna-N	2	100	85 (185)	15 ms	45 ms
4-Way General Purpose, Pilot Operated, Normally Closed, Aluminum Body, Air Only									
SV271	1/8	5/32	0.35	Buna-N	15	150	74 (165)	10 to 30 ms	10 to 30 ms

ACCESSORIES

MODEL NO.	DESCRIPTION
SVCOIL-110AC	Replacement coil, 110 Vac
SVCOIL-220AC	Replacement coil, 220 Vac
SVCOIL-24VDC	Replacement coil, 24 Vdc

Note: *Some solenoid valves are available with 24 Vdc coils. Five piece minimum order. UL approval is not available with 24 Vdc coils. Specifications effected; pressure rating may decrease; coil wattage ratings may increase. Consult Engineering.*

Ordering Examples: SV251, *3-way direct-acting valve, user-selectable NO/NC with brass body and 1/4 NPT fitting with FKM seal.*
SV271, *4-way general purpose, pilot operated, NC with aluminum body 1/8 NPT fitting and Buna-N seal.*

2-WAY ANTI-WATERHAMMER SOLENOID VALVES

SV290 Series

- Durable Brass Valve Body
- Adjustable Closing Time
- Rugged NEMA 4 (IP65) Housing
- Mounts in Any Position
- Rated for Continuous Use

TYPICAL APPLICATIONS

- Water Treatment
- Irrigation
- Cooling
- Car Washing Equipment
- Petroleum Processing
- Dish and Bottle Washing

SV292 shown actual size.

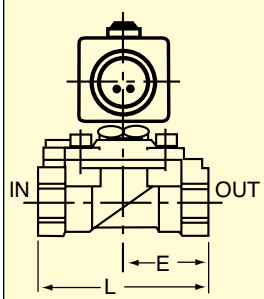
The SV291 and SV292 valves are 2-way, pilot operated, anti-waterhammer, and normally open. These valves are designed to reduce or control waterhammer, which typically occurs with incompressible fluids when the closing of a valve creates a sudden change of the fluid velocity. Restriction of the pilot flow in these valves will prevent them from slamming closed. Valve and piping system life is enhanced since the noise, vibration, and shock of waterhammer are reduced.

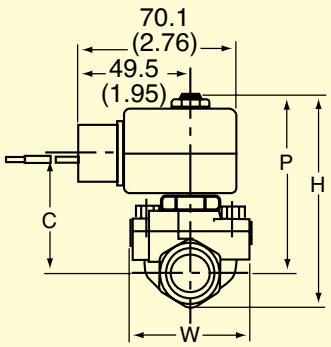
Where small flows (C_V <3.0) at relatively low pressure differentials are present, the waterhammer is eliminated by the fixed restriction of the pilot flow. This is the standard design for the industry. However, to reduce waterhammer in high-flow applications, a unique field adjustment device can effectively control the waterhammer in an application. The closing time on these valves can be adjusted by a 4-position selector. Position 1 allows the fastest closing, position 4 the slowest.

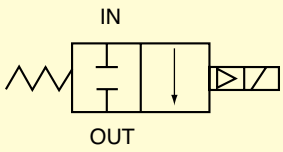
SPECIFICATIONS

Operation: Pilot operated
Wetted Parts: Brass, stainless steel, copper, and seal
Medium: Liquid or gases
Max Static Pressure: 5 times max psid
Ambient Temp: -9 to 50°C (15 to 122°F)
Mounting: Pipe mounting, any direction
Power: 10 W, 120 Vac, Class F

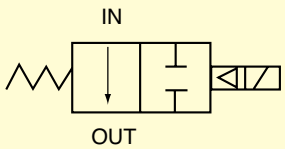
SV291 and SV292







NORMALLY CLOSED



NORMALLY OPEN

Port Identification: Flow arrow on body indicates flow direction—ports are not marked.

Dimensions: mm (inch)

VALVE	H	P	C	L	W
SV291	120.7 (4.75)	98.0 (3.86)	72.1 (2.84)	100.1 (3.94)	69.9 (2.75)
SV292	120.7 (4.75)	98.0 (3.86)	72.1 (2.84)	100.1 (3.94)	69.9 (2.75)

To Order

MODEL NO.	NPT FITTING	ORIFICE	C_V	SEAL	DIFF PRES (psid) MIN	DIFF PRES (psid) MAX	TEMP °C	TEMP °F	RESPONSE TIME OPEN	RESPONSE TIME CLOSE
SV291	¾	¾"	9.6	Buna-N	5	230	85	185	100 to 250 ms	0.6 to 4.5 s
SV292	1	1"	12.5	Buna-N	5	230	85	185	100 to 250 ms	0.5 to 4.5 s

Comes complete with operator's manual.

ACCESSORIES

MODEL NO.	DESCRIPTION
SVCOIL-110AC	Replacement coil, 110 Vac
SVCOIL-220AC	Replacement coil, 220 Vac
SVCOIL-24VDC	Replacement coil, 24 Vdc

Note: *Some solenoid valves are available with 24 Vdc coils. Five piece minimum order. UL approval is not available with 24 Vdc coils. Specifications effected; pressure ratings may decrease; coil wattage ratings may increase. Consult Engineering.*

Ordering Examples: SV291, *2-way, anti-waterhammer, pilot-operated, brass body NO valve with ¾ NPT fittings and Buna-N seal.*

SV292*, 2-way, anti-waterhammer, pilot-operated, brass body NO valve with 1 NPT fitting and Buna-N seal.*

OMEGA-FLO® 2-WAY, LOW COST DIRECT-ACTING SOLENOID VALVES

SV3100 Series

1 YEAR WARRANTY

SV3105 shown larger than actual size.

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

SV-3100 Series 2-way solenoid valves are direct-acting valves featuring brass and stainless steel construction and FKM 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 ½" conduit plug is also available.

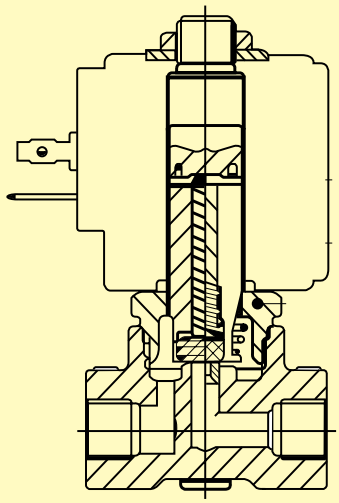
Materials of Construction	
Body	Brass
Armature Tube	Brass
Fixed Core	Stainless Steel 400
Plunger	Stainless Steel 400
Spring	Stainless Steel 300
Shading Ring	Copper
Orifice	Brass
Sealing Material	FKM

SPECIFICATIONS

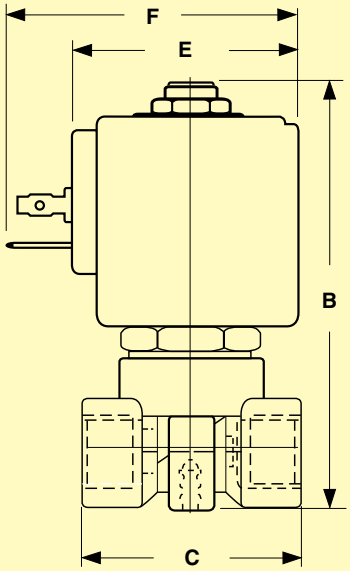
Mounting Position: Any (preferably with solenoid system upright)
Maximum Process Temperature: 137°C (280°F) due to FKM O-ring
Maximum Ambient Temperature: Coil dependent (See ratings on coils)
Voltage Tolerance: ±10%
Opening Time (msec):
AC: 10 to 20
DC: 20 to 80 depending on orifice and pressure
Closing Time (msec):
AC and DC: Approx. 20 to 30
Cycling Rate: Approx. 1000 cpm
Duty Cycle: Continuous (100%)
Coil Molding Material:
Black Polyester (Class F):
SV8COIL-115AC
SV8COIL-24DC/60HZ
SV8COIL-24AC/50 to 60HZ
SV8COIL-220AC
Black Polyamide (Class F):
SV8COIL-12DC, SV8COIL-24DC
Black Polyphenylensulphide (Class H): SV8COIL-115/60HZ

Coil Specifications		
Coil	**Inrush VA**	**Holding VA**
8 W	25	14

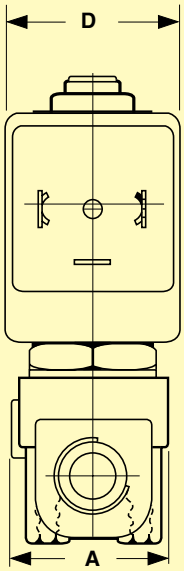
Normally Closed Operation



SV3100 Side Valve Dimensions



SV3100 Front Valve Dimensions



Valve Dimensions			
Pipe Size	**A**	**B**	**C**
1/8" 1/4"	11/16"	2 7/16"	1 3/16"

Coil Dimensions			
Watt	**D**	**E**	**F**
8	1 3/16"	1 21/32"	2 1/8"

To Order

Model No.	Description	Pipe† Size (inch)	Orifice Size (inch)	Cv Flow Factor	Operating Pressure M.O.P.D.*	
					AC psi	DC psi
SV3101	2-way normally closed valve	1/8	1/16	0.10	430	220
SV3103	2-way normally closed valve	1/8	3/32	0.14	290	150
SV3104	2-way normally closed valve	1/8	1/8	0.24	175	85
SV3105	2-way normally closed valve	1/8	5/32	0.35	85	30
SV3106	2-way normally closed valve	1/4	1/16	0.10	430	220
SV3108	2-way normally closed valve	1/4	3/32	0.15	290	150
SV3109	2-way normally closed valve	1/4	1/8	0.24	175	85
SV3110	2-way normally closed valve	1/4	5/32	0.35	85	30

** Maximum operational pressure differential.*
† BSP threads. In most cases BSP and NPT are interchangeable in this size.

Accessories

Model No.	Description
Connectors	
SV-CGC	Replacement cable grip connector
SV-CC	½" 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 60 Hz 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)

Comes complete with operator's manual, 8 W coil and cable grip connector.
***Ordering Examples: SV3109**, 1/4" valve with 5/32" orifice.*
***SV3106**, 1/4" valve with 1/16" orifice and **SV8COIL-12DC**, 8 W/12 Vdc coil.*

SOLENOID VALVES

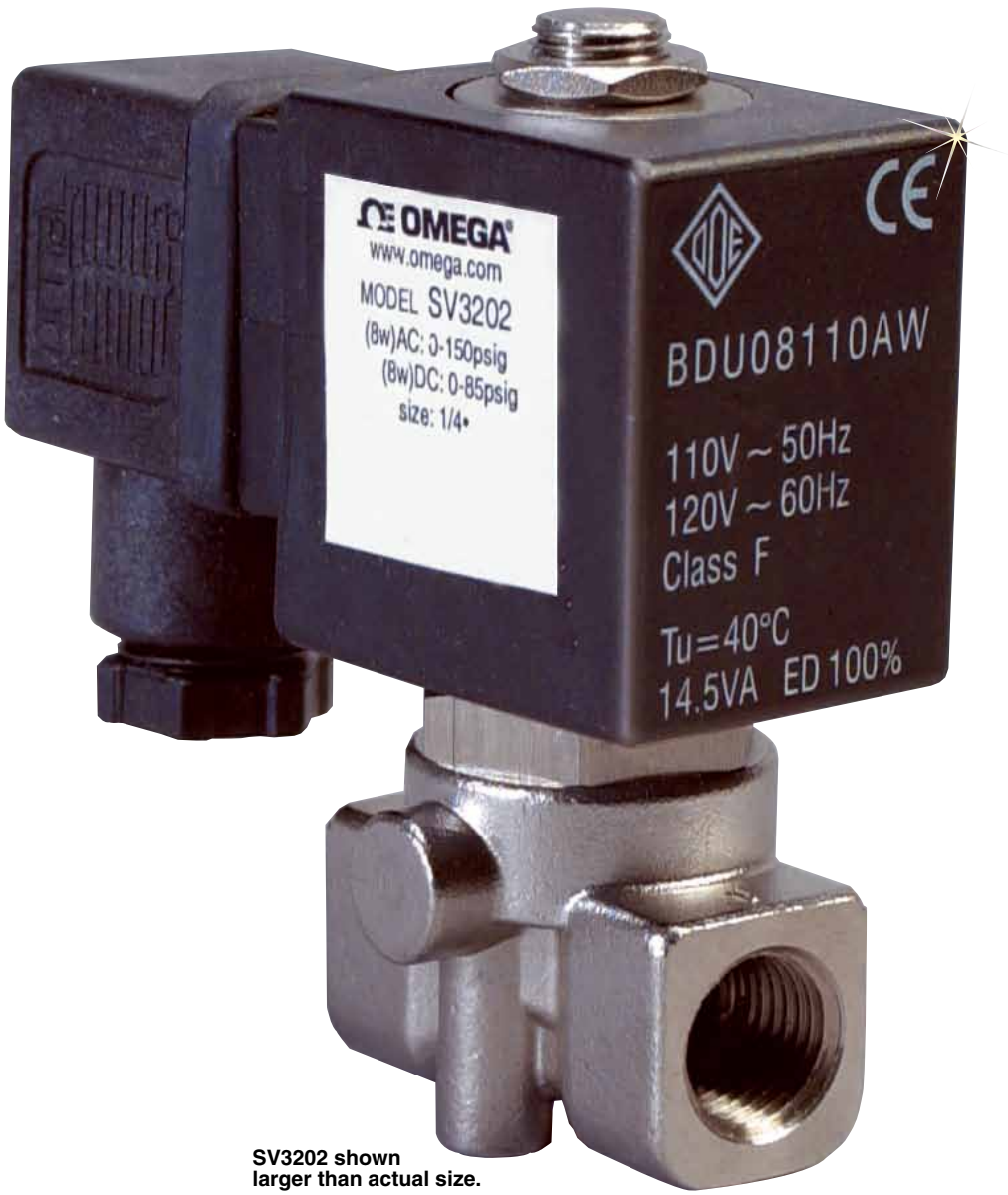
SV3200 Series

1 YEAR WARRANTY

- **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 ½" conduit plug is also available.



SV3202 shown larger than actual size.

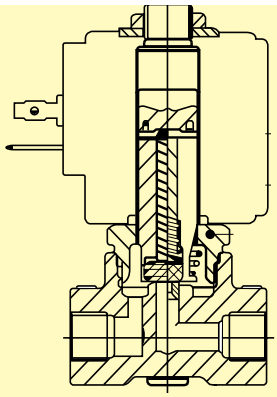
SPECIFICATIONS

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 Polyphenylensulphide (Class H):
SV8COIL-115/60HZ
Black Epoxy Resin (Class H):
All 14 W coils

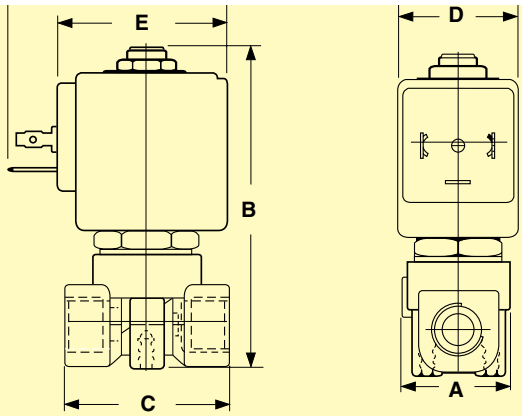
Materials of Construction	
Body	Stainless Steel 316
Armature Tube	Stainless Steel 300
Fixed Core	Stainless Steel 400
Plunger	Stainless Steel 400
Spring	Stainless Steel 300
Shading Ring	Gold-Plated Copper
Orifice	Stainless Steel 316
Seal Material	PTFE

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		
							M.O.P.D.*	
				Standard	Optional	Min psi	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)

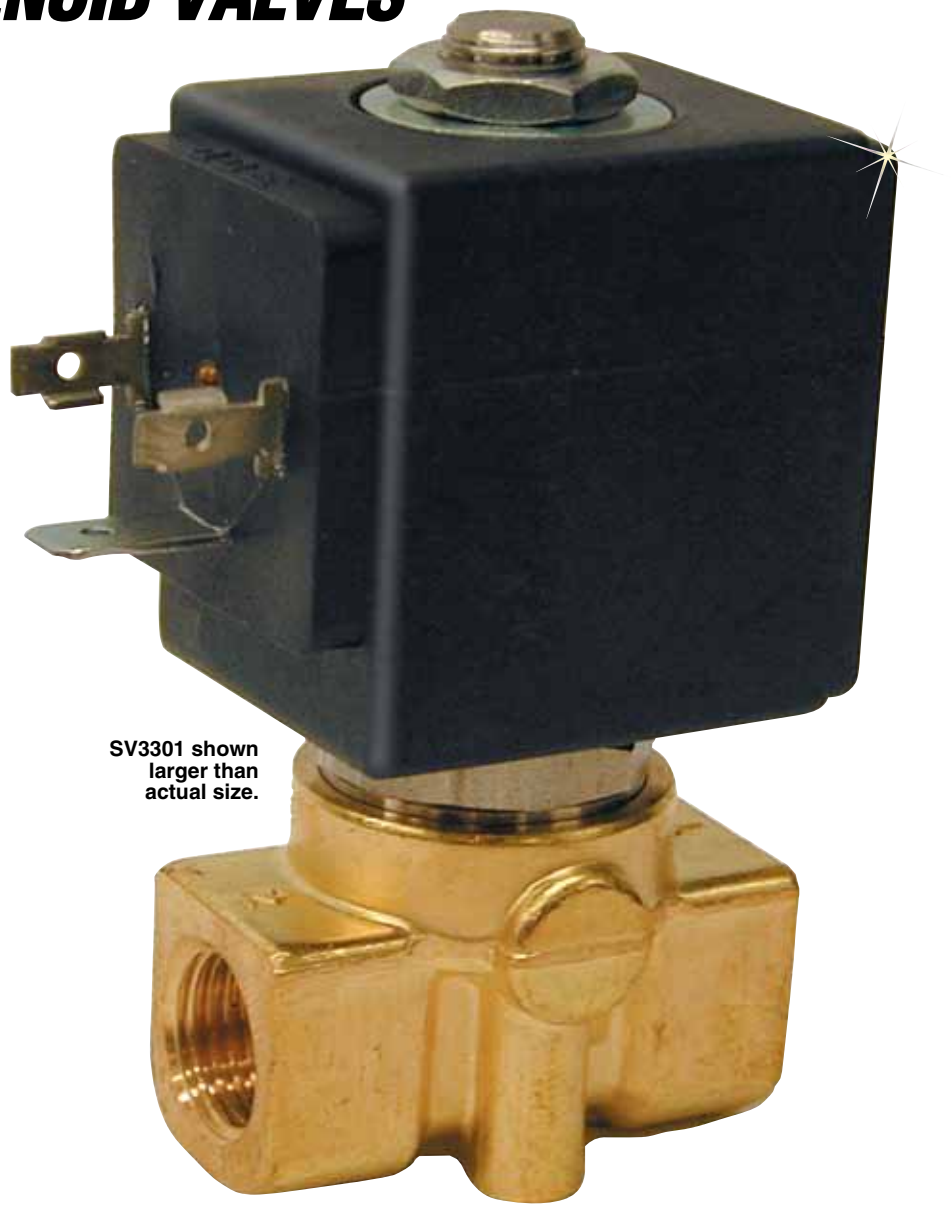
Comes complete with operator's manual, 8 W coil, and cable grip connector.
***Ordering Examples: SV3201**, 1/4" normally closed valve for 3/32" orifice.*
***SV3202**, 1/4" normally closed valve for 1/8" orifice with **SV8COIL-24DC**, 8 W coil for 24 Vdc.*

OMEGA-FLO® 2-WAY GENERAL PURPOSE SOLENOID VALVES

SV3300 Series

1 YEAR WARRANTY

- **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.

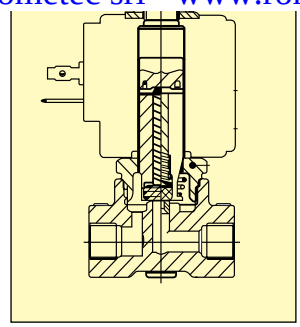
Materials of Construction	
Body	Brass
Armature Tube	Stainless Steel 300
Fixed Core	Stainless Steel 400
Plunger	Stainless Steel 400
Spring	Stainless Steel 300
Shading Ring	Copper
Orifice ≤⅛"	Stainless Steel 300
Orifice >⅛"	Brass
Sealing Material	FKM

SPECIFICATIONS

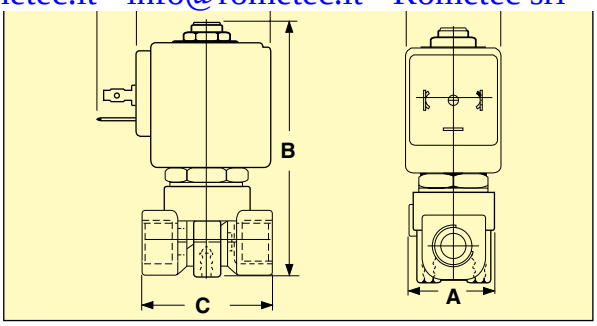
Mounting Position: Any (preferably with solenoid system upright)
Maximum Process Temperature: 137°C (280°F) due to FKM O-ring
Maximum Ambient Temperature: Coil Dependent (See ratings on coils)
Voltage Tolerance: ±10%
Opening Time (msec):
AC: 10 to 20
DC: 20 to 80 depending on orifice and pressure
Closing 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 Polyphenylensulphide (Class H):
SV8COIL-115/60HZ
Black Epoxy Resin (Class H):
All 14 Watt coils

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

Normally Closed



SV3300 Valve Dimensions



Valve Dimensions

⅛" ¼"	1 3⁄32"	3 1⁄16"	1 5⁄8"

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 Model No.	Normally Open Model No.	Pipe† Size	Orifice Size	Cv Flow Factor	Coils Standard	Coils Optional	MIN psi	Operating Pressure M.O.P.D.* AC psi	Operating Pressure M.O.P.D.* DC psi
SV3301	SV3301-NO	⅛"	1⁄16"	0.10	8 W	—	0	435	260
SV3302	SV3302-NO	⅛"	5⁄64"	0.14	8 W	—	0	315	230
		⅛"	5⁄64"	0.14	—	12 or 14 W	0	505	435
SV3303	SV3303-NO	⅛"	3⁄32"	0.22	8 W	—	0	200	130
		⅛"	3⁄32"	0.22	—	12 or 14 W	0	435	360
SV3304	SV3304-NO	⅛"	⅛"	0.28	8 W	—	0	145	85
		⅛"	⅛"	0.28	—	12 or 14 W	0	360	260/290‡
SV3305	SV3305-NO	⅛"	3⁄16"	0.45	8 W	—	0	70	30
		⅛"	3⁄16"	0.45	—	12 or 14 W	0	170	100/115
SV3306	SV3306-NO	¼"	1⁄16"	0.10	8 W	—	0	430	260
SV3307	SV3307-NO	¼"	5⁄64"	0.14	8 W	—	0	315	230
		¼"	5⁄64"	0.14	—	12 or 14 W	0	505	435
SV3308	SV3308-NO	¼"	3⁄32"	0.22	8 W	—	0	200	130
		¼"	3⁄32"	0.22	—	12 or 14 W	0	435	360
SV3309	SV3309-NO	¼"	⅛"	0.28	8 W	—	0	145	85
		¼"	⅛"	0.28	—	12 or 14 W	0	360	260/290‡
SV3310	SV3310-NO	¼"	3⁄16"	0.45	8 W	—	0	70	30
		¼"	3⁄16"	0.45	—	12 or 14 W	0	170	100/115‡
SV3311	SV3311-NO	¼"	7⁄32"	0.63	8 W	—	0	45	15
		¼"	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.

J

Accessories

Model No.	Description
Connectors	
SV-CGC	Replacement cable grip connector
SV-CC	½" 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**, ¼" normally closed valve for ⅛" orifice.*
***SV3303-NO**, ⅛" normally open valve for 3⁄32" orifice.*

DIFFERENTIAL SOLENOID VALVES

SV3500 Series

1 YEAR WARRANTY

- **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**

SV3501 shown larger than actual size.

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.

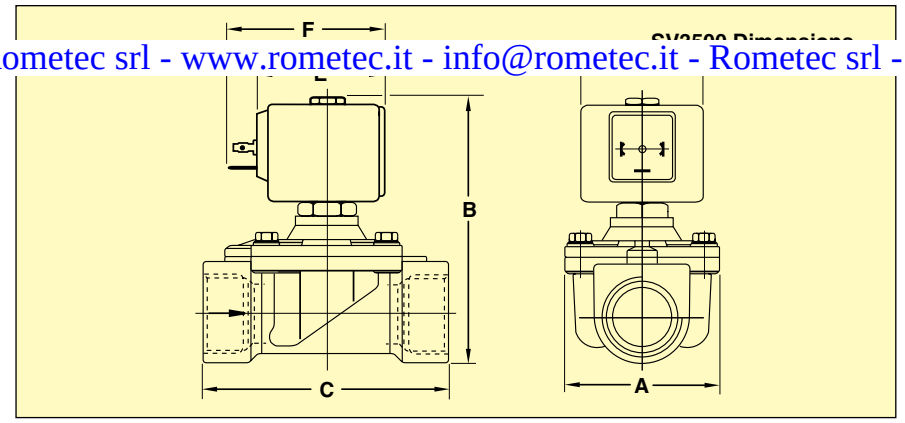
A strain-relief connector is supplied with each unit. A ½" conduit plug is also available.

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

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 (polymide)
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 Polyphenylensulphide (Class H): SV8COIL-115/60HZ
Black Epoxy Resin (Class H): All 14 Watt coils



Valve Dimensions			
¼, ⅜ NPT	1 31/32"	3½"	2 7/32"
½, ¾ NPT	1 31/32"	3 15/16"	2¾"
1 NPT	2 9/16"	4 13/32"	4 3/32"

Coil Dimensions			
Coil	D	E	F
8 W	1 3/16"	1 21/32"	2⅛"
12 W	1 7/16"	1 29/32"	2⅜"
14 W	2 1/16"	5 7/32"	2⅝"

To Order

Model No.	Pipe Size	Orifice Size	Cv Flow Factor	Coils		Operating Pressure		
				Standard	Optional	Min psi	M.O.P.D.* AC psi	M.O.P.D.* DC psi
SV3501	¼"	7/16"	1.4	8 W		0	200	75
	¼"	7/16"	1.4		12 or 14 W	0	200	200
SV3502	⅜"	7/16"	1.4	8 W		0	200	75
	⅜"	7/16"	1.4		12 or 14 W	0	200	200
SV3503	½"	⅝"	2.8	8 W		0	200	35
	½"	⅝"	2.8		12 or 14 W	0	200	160/200‡
SV3504	¾"	⅝"	2.8	8 W		0	200	35
	¾"	⅝"	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
Connectors	
SV-CGC	Replacement cable grip connector
SV-CC	½" 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 Vdc154°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 Hz154°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)
Repair Kits (Include Diaphragm, Spring, Plunger, and O-rings)	
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**, ¼" valve for 7/16" orifice.*
***SV3503**, ½" valve for ⅝" orifice.*

AND STEAM SOLENOID VALVES

SV4000A Series

CE 1 YEAR WARRANTY

- Normally Closed or Normally Open
- Ideal for Hot Water and Steam
- 8 W, AC Coils Standard
- 14 W, DC Coils Also Available

SV4000 Series 2-way hot water and steam solenoid valves are internally piloted. They feature brass and 316 stainless steel construction, and PTFE seal material. The temperature range of 0 to 182°C (32 to 360°F) and the PTFE O-ring make these valves ideal for media such as hot water and steam.
A strain-relief connector is supplied with each unit. A ½" conduit plug is also available.

SV4002A shown smaller than actual size.

SV4003A-NO shown smaller than actual size.

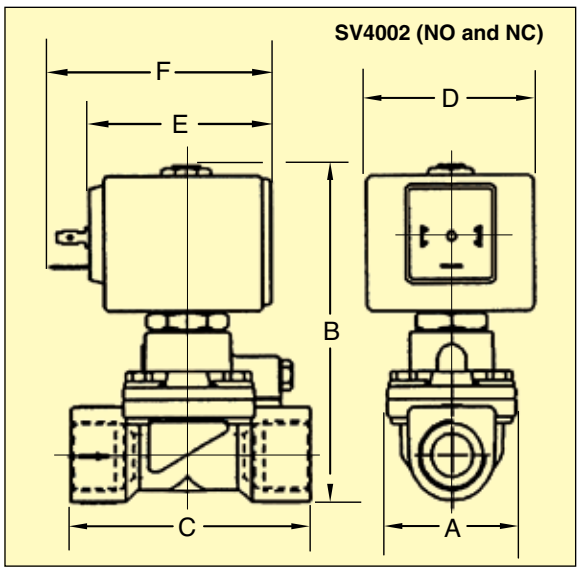
SV4003A-SS shown smaller than actual size.

SPECIFICATIONS

Mounting Position: Any (preferably with solenoid system upright)
Maximum Process Temperature: 60 to 182°C (140 to 360°F) PTFE O-ring
Maximum Ambient Temperature: Coil dependent (see ratings on coils)
Voltage Tolerance: ±10% AC, ±5% DC
Opening Time (ms): Approximately 100 to 200
Closing Time (ms): Approximately 200 to 1200
Cycling Rate: Approximately 60 cpm
Duty Cycle: Continuous (100%)
Coil Molding Material:
Black Polyphenylensulphide (Class H):
SV8COIL-115/60 HZ
SV8COIL-220/60 HZ
Black Epoxy Resin (Class H):
All 14 W coils, NEMA 4

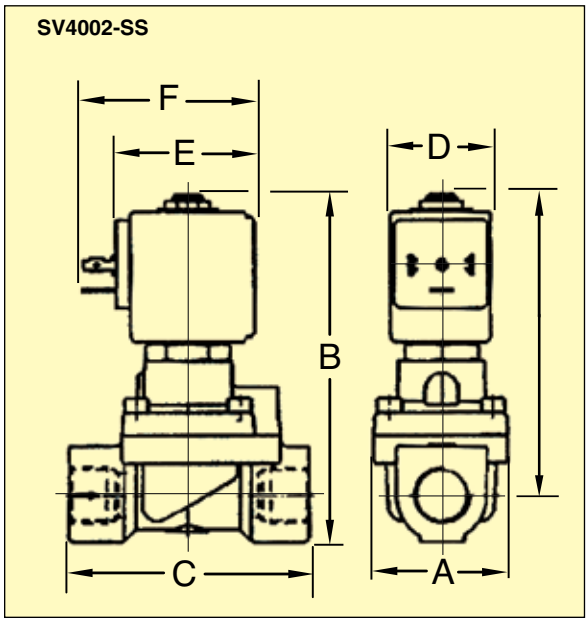
Materials of Construction		
Body	Brass	316 SS
Armature Tube	Stainless steel 300	Stainless steel 300
Fixed Core	Stainless steel 400	Stainless steel 400
Plunger	Stainless steel 400	Stainless steel 400
Spring	Stainless steel 300	Stainless steel 300
Shading Ring	Copper	Gold-Plated Copper
Orifice	Brass	316 SS

Coil Specifications		
Watt	**Inrush VA**	**Holding VA**
8.0	**25.0**	**14.0**
14.0	**43.0**	**27.0**



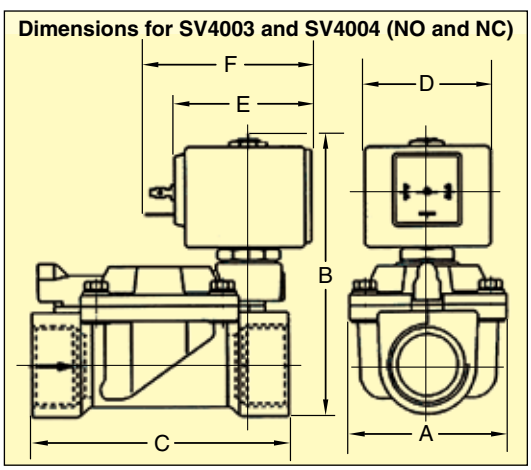
Valve Dimensions			
Model No.	A	B	C
SV4002A	1 19/32"	4 7/32"	2 9/16"

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



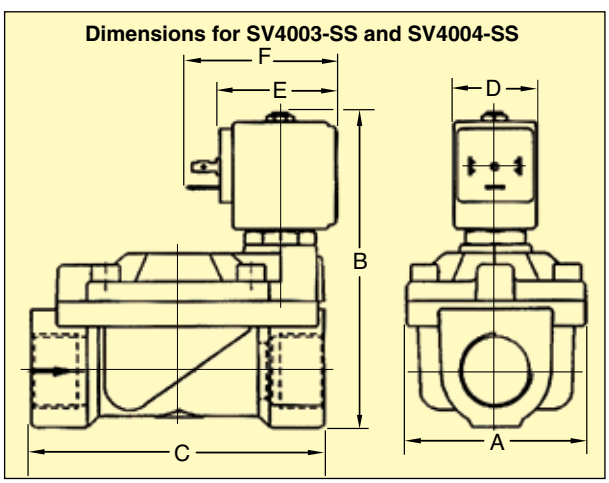
Valve Dimensions			
Model No.	A	B	C
SV4002A-SS	1 9/16"	4 1/16"	2 27/32"

Coil Dimensions			
Watt	D	E	F
8	1 3/16"	1 21/32"	2 1/8"



Valve Dimensions			
Model No.	A	B	C
SV4004A	2 7/16"	5 1/8"	3 11/16"

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



Valve Dimensions			
Model No.	A	B	C
SV4003A-SS SV4004A-SS	2 9/16"	4 17/32"	4 3/32"

Coil Dimensions			
Watt	D	E	F
8	1 3/16"	1 21/32"	2 1/8"

SV-CC, ½" conduit connector, shown larger than actual size.

SV-CGC replacement cable grip connector, shown larger than actual size.

SV4003A-NO shown smaller than actual size.

To Order *Visit omega.com/sv4000a for Pricing and Details*

Brass Valves					Operating Pressure				
Normally Closed Model No.	Normally Open Model No.	Pipe Size NPT	Orifice Size	C_v Flow Factor	Coil		MIN psi	M.O.P.D.*	
					Standard	Optional		AC psi	DC psi
SV4002A	SV4002A-NO	½	7/16"	3.4	8 W	14 W	7	150	150
SV4003A	SV4003A-NO	¾	¾"	6.2	8 W	14 W			
SV4004A	SV4004A-NO	1	1"	11.0 8	W	14 W			

Normally Closed 316 SS Valves							
Model No.	Pipe Size NPT	Orifice Size	C_v Flow Factor	Power	MIN psi	AC psi	DC psi
SV4002A-SS	½	7/16"	2.4	8 W	7	150	150
SV4003A-SS	¾	¾"	8.0				
SV4004A-SS	1	1"	9.0				

***** *Maximum operating pressure differential.*

J

Accessories

Connectors	
Model No.	**Description**
SV-CGC	Replacement cable grip connector
SV-CC	½" conduit connector
Coils	
SV8COIL-115/60HZ	8 W coil for 115 Vac/60 Hz 182°C (360°F) (Class H)
SV8COIL-220AC	8 W coil for 220 Vac/60 Hz 182°C (360°F) (Class H)
SV8COIL-24AC/60HZ	8 W coil for 24 Vac/60 Hz 182°C (360°F) (Class H)
SV14COIL-24DC	14 W coil for 24 Vdc 182°C (360°F) (Class H)
SV14COIL-12DC	14 W coil for 12 Vdc 182°C (360°F) (Class H)
Repair Kits (Include Diaphragm, Spring, Plunger and O-rings)	
VRK-4012	Repair kit for SV4001 and SV4002
VRK-4034	Repair kit for SV4003 and SV4004
VRK-4002SS	Repair kit for SV4002-SS
VRK-4034SS	Repair kit for SV4003-SS and SV4004-SS

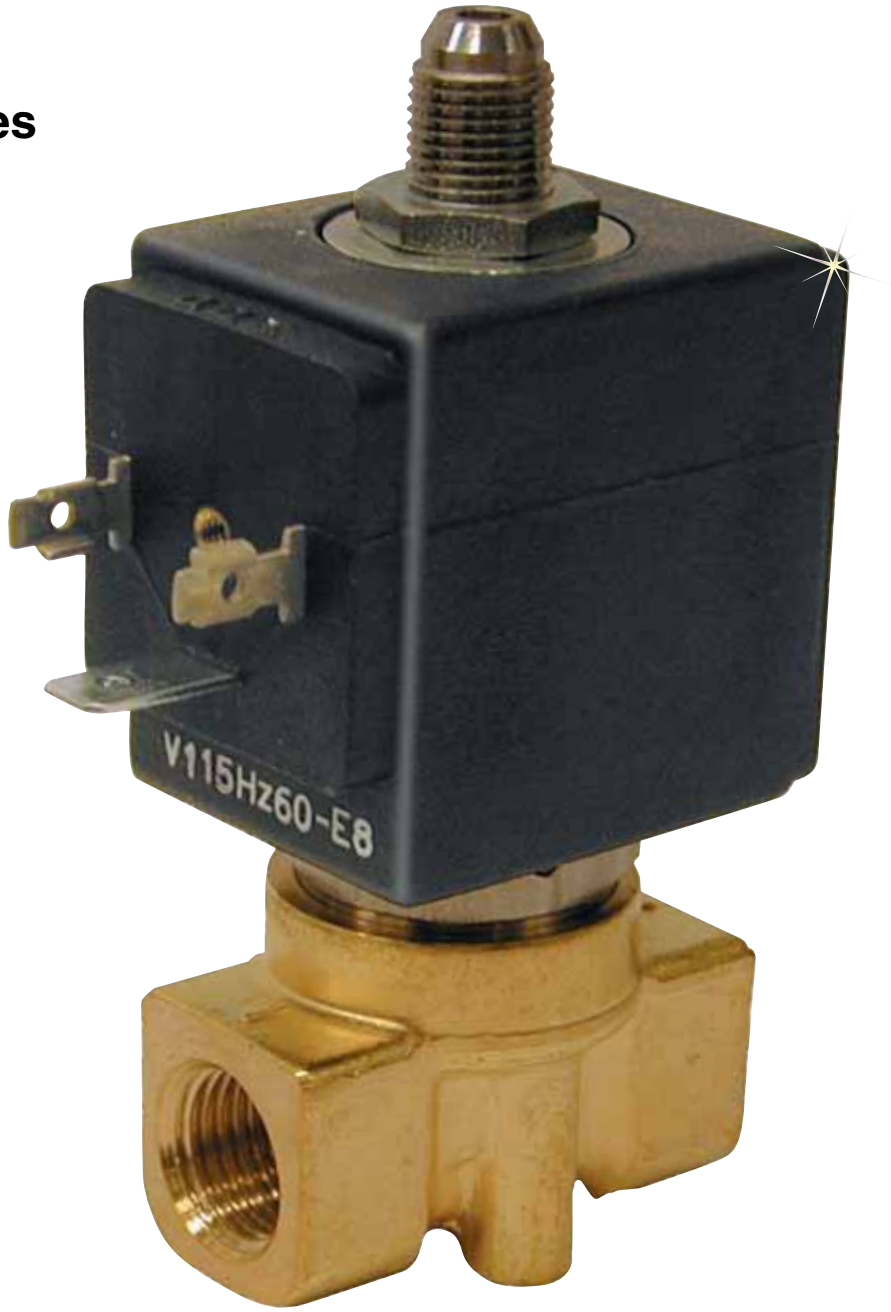
Comes complete with operator's manual, 8 W coil, and cable grip.

***Ordering Examples: SV4002A**, ½ NPT normally closed valve for 7/16" orifice.*

***SV4004A-NO**, 1 NPT normally open valve for 1"s orifice.*

OMEGA-FLO® 2 WAY DIRECT ACTING SOLENOID VALVES

SV4100/SV4300 Series



- **Ideal for Compressed Air, Inert gas, Water and Synthetic Oils**
- **120 Vac Standard (220 Vac and DC Coils are Optional)**
- **8 W, AC Coils Standard**
- **8 W, DC Coils Available**
- **Normally Open or Normally Closed Models**

The SV4100 and SV4300 Series are direct acting solenoid valves. The valves have a brass body with brass and stainless steel wetted parts and a FKM seal material. A temperature range of -10 to 137°C (14 to 280°F) makes this valve ideal for neutral media such as compressed air, inert gas, water and synthetic oils.

A strain-relief connector is supplied with each unit. A ½" conduit plug is also available.

SV4101 shown larger than actual size.

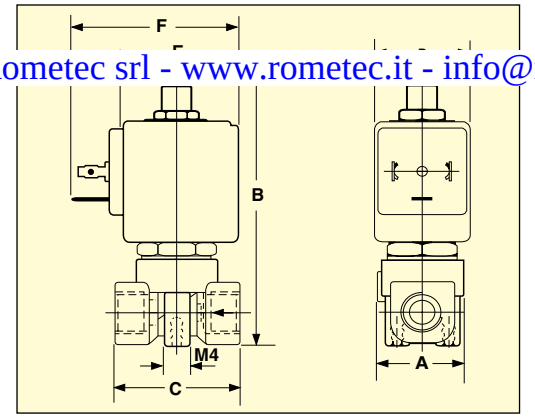
SPECIFICATIONS

Mounting Position: Any (preferably with the 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): Approximately
AC: 8 to 15
DC: 10 to 20
Closing Time (msec): Approximately
AC: 8 to 15
DC: 10 to 20
Cycling Rate: Approx. 1000 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
Black Polyphenylensulphide (Class H): SV8COIL-115/60HZ

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	Stainless Steel 300

Coil Specifications		
Coil	**Inrush VA**	**Holding VA**
8 W	25	14.5



Valve Dimensions			
Pipe Size	**A**	**B**	**C**
⅛"	1 1/16"	3 7/16"	1 9/16"
¼"			

Coil Dimensions			
Coil	**D**	**E**	**F**
8 W	1 3/16"	1 21/32"	2⅛"

To Order

							Operating Pressure	
3 Way Universal Normally Opened Model No.	**Pipe Size†**	**Orifice Size**	**3rd Way Exhaust Orifice**	**Cv Flow Factor**	**Coil Power**	**Minimum psi**	**M.O.P.D.***	
							AC psi	**DC psi**
SV4101	⅛"	3/64"	3/32"	0.06	8 W	0	260	260
SV4102	⅛"	1/16"	1/16"	0.1	8 W	0	145	145
SV4103	⅛"	3/32"	3/32"	0.22	8 W	0	60	60
SV4104	⅛"	⅛"	⅛"	0.28	8 W	0	50	50
SV4105	¼"	3/64"	3/64"	0.06	8 W	0	260	260
SV4106	¼"	1/16"	1/16"	0.1	8 W	0	145	145
SV4107	¼"	3/32"	3/32"	0.22	8 W	0	60	60
SV4108	¼"	⅛"	⅛"	0.28	8 W	0	50	50
Normally Closed Model No.								
SV4301	⅛"	3/64"	3/32"	0.06	8 W	0	290	290
SV4302	⅛"	1/16"	3/32"	0.1	8 W	0	215	215
SV4303	⅛"	5/64"	3/32"	0.14	8 W	0	145	145
SV4304	⅛"	3/32"	3/32"	0.22	8 W	0	85	85
SV4305	⅛"	⅛"	3/32"	0.28	8 W	0	70	70
SV4306	¼"	3/64"	3/32"	0.06	8 W	0	290	290
SV4307	¼"	1/16"	3/32"	0.1	8 W	0	215	215
SV4308	¼"	5/64"	3/32"	0.14	8 W	0	145	145
SV4309	¼"	3/32"	3/32"	0.22	8 W	0	85	85
SV4310	¼"	⅛"	3/32"	0.28	8 W	0	70	70

***** *Maximum Operating Pressure Differential.*
† *BSP Connection. In most cases BSP and NPT are interchangeable in this size.*

Accessories

Model No.	**Description**
Connectors (NEMA 4)	
SV-CGC	Replacement cable grip connector
SV-CC	½" 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/60Hz 182°C (360°F) (Class H)
SV8COIL-220AC	8 W coil for 220 to 240/50 to 60 Hz 154°C (310°F) (Class F)
SV8COIL-115/60HZ	8 W coil for 115/60 Hz 182°C (360°F) (Class H)

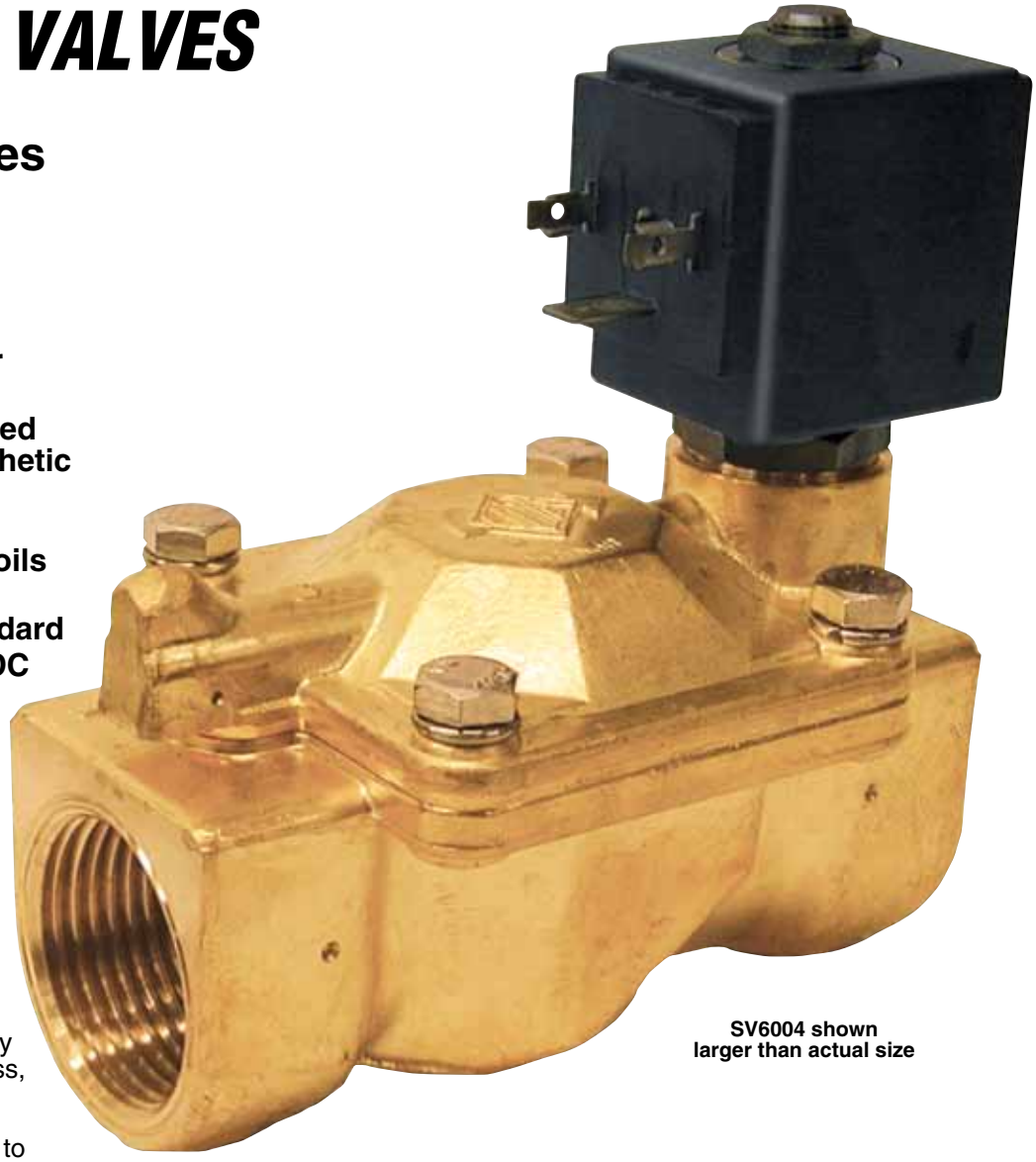
Comes complete with operator's manual and cable grip connector.
***Ordering Examples: SV4102**, ⅛" 3-way universal normally open valve.*
***SV4306**, ¼" 3-way normally closed valve.*

SOLENOID VALVES

SV6000 Series

1 YEAR WARRANTY

- **Normally Closed or Normally Open**
- **Ideal for Compressed Air, Inert Gas, Synthetic Oils and Water**
- **120 Vac Standard (220 Vac and DC Coils are Optional)**
- **8 W, AC Coils Standard**
- **12 or 14 W, AC or DC Coils Available For Many Models**



SV6004 shown larger than actual size

SV6000 Series 2-way solenoid valves are internally piloted valves featuring Brass, stainless steel construction and FKM seal material. The temperature range from -10 to 137°C (14 to 280°F) and FKM O-ring material is ideal for neutral media such as compressed air, inert gases, synthetic oils and water. Buna O-rings are good for compressed air, inert gases, and water. Buna O-rings have a more limited temperature range from -10 to 90°C (14 to 195°F).

A strain-relief connector is supplied with each unit. A ½" conduit plug is also available.

SPECIFICATIONS

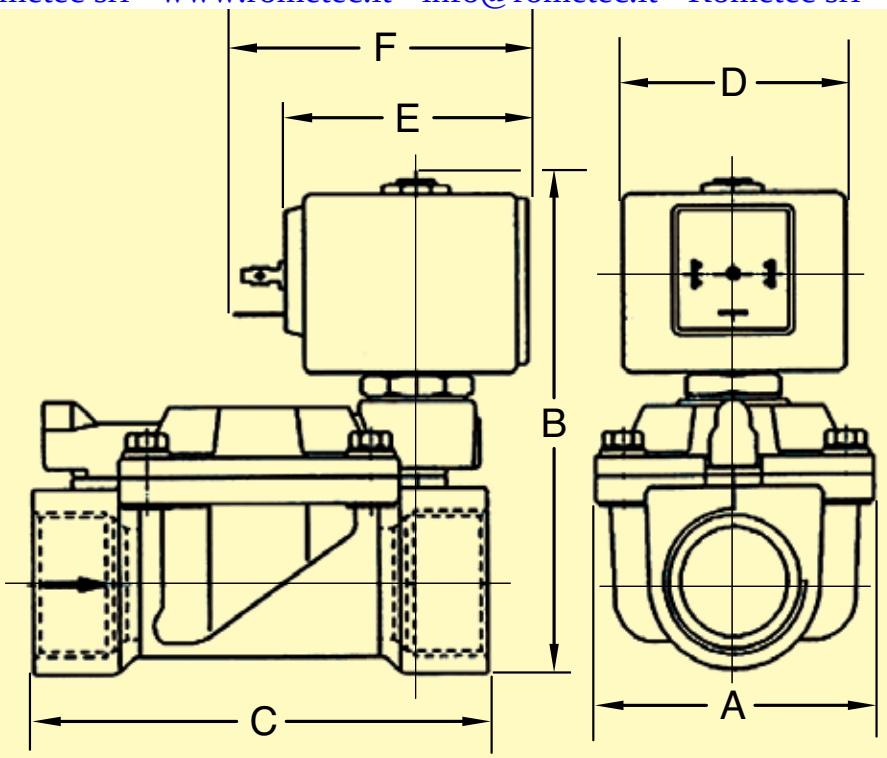
Mounting Position: Any (preferably with solenoid system upright)
Operating Ambient:
FKM O-Ring: -10 to 137°C (14 to 280°F)
Buna O-ring: -10 to 90°C (14 to 195°F). Buna O-rings are not recommended for synthetic oils. Use FKM O-rings.

Maximum Ambient Temperature: Coil Dependent (See ratings on coils)
Voltage Tolerance: ±10%
Opening Time (msec): 200 to 500 approximately
Closing Time (msec): 100 to 4000 approximately
Cycling Rate: Approx. 10 to 50 cpm
Duty Cycle: Continuous (100%)
Coil Molding Material:
Black Polyester (Class F): SV8COIL-115AC, SV8COIL-24DC/60HZ, SV8COIL-220AC
Black Polyamide (Class F): SV8COIL-12DC, SV8COIL-24DC, All 12 Watt coils
Black Polyphenylensulphide (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	Brass

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

J



Valve Dimensions SV6004/SV6008

Model No.	A	B	C
SV6004 SV6005	2 9/16"	4 1/8" 4 13/32"	4 3/32"
SV6006 SV6007	3 7/8"	4 15/16"	5 21/32"
SV6008	4 21/32"	5 9/16"	6 25/32"

Valve Dimensions

Model No.	A	B	C
SV6001			2"
SV6002	1 9/16"	3 9/16"	2"
SV6003			2 27/32"

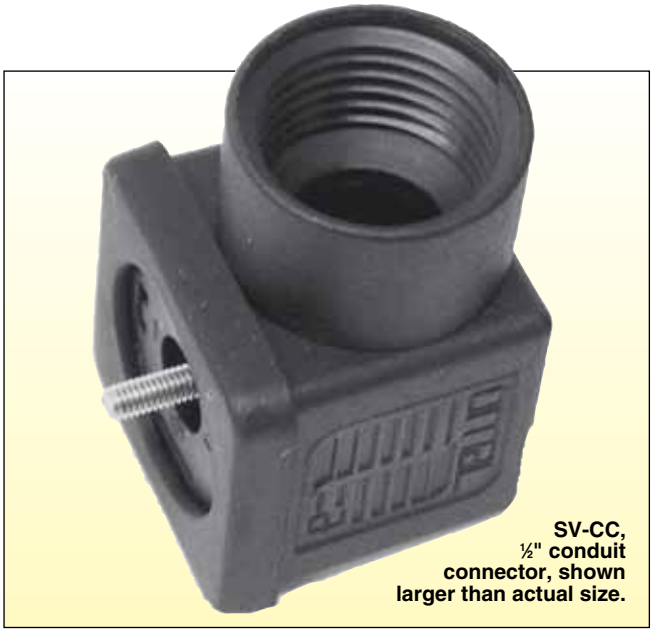
SV6000 Series Coil Dimensions

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 7/32"	2 21/32"

To Order

Normally Closed Model No.	Pipe Size	Orifice Size	Cv Flow Factor	O-Ring	Coils		Operating Pressure		
					Standard	Optional	Minimum psi	M.O.P.D.* AC psi	M.O.P.D.* DC psi
SV6001	1/4"	7/16"	1.5	FKM	8 W		2	300	150
	1/4"	7/16"	1.5	FKM		12 or 14 W	2	300	300
SV6002	3/8"	7/16"	1.7	FKM	8 W		2	300	150
	3/8"	7/16"	1.7	FKM		12 or 14 W	2	300	300
SV6003	1/2"	7/16"	1.7	FKM	8 W		2	300	150
	1/2"	7/16"	1.7	FKM		12 or 14 W	2	300	300
SV6004	3/4"	3/4"	9.8	Buna†	8 W	—	2	230	230
SV6005	1"	1"	14	Buna†	8 W	—	2	230	230
SV6006	1 1/4"	1 3/8"	28	Buna†	8 W	—	2	150	150
SV6007	1 1/2"	1 1/2"	36	Buna†	8 W	—	2	150	150
SV6008	2"	2"	53	Buna†	8 W	—	2	150	150
Normally Open Model No.									
SV6004-NO	3/4"	3/4"	9.8	Buna†	8 W	—	2	230	230
SV6005-NO	1"	1"	14	Buna†	8 W	—	2	230	230
SV6006-NO	1 1/4"	1 3/8"	28	Buna†	8 W	—	2	150	150
SV6007-NO	1 1/2"	1 1/2"	36	Buna†	8 W	—	2	150	150
SV6008-NO	2"	2"	53	Buna†	8 W	—	2	150	150

** Maximum Operational Pressure Differential.*
*† Add suffix **"-V"** to model number to change standard Buna O-rings to FKM, for additional cost.*
Comes complete with operator's manual, 8 W coil and cable grip connector.
***Ordering Examples: SV6002**, 3/8 NPT normally closed valve for 7/16" orifice.*
***SV6004-NO**, 3/4" normally open valve for 3/4" orifice.*
***SV8COIL-12DC**, 8 W coil for 12 Vdc 154°C (310°F) (Class F).*



SV-CC, ½" conduit connector, shown larger than actual size.

SV-CGC, cable grip connector, shown larger than actual size.

Accessories

Model No.	Description
Connectors	
SV-CGC	Cable grip connector
SV-CC	½" conduit connector
Coils	
SV8COIL-115AC	Replacement 8W coil for 110 to 120 VAC/50 to 60 Hz 154°C (310°F) (Class F)
SV8COIL-12DC	8W coil for 12 Vdc 154°C (310°F) (Class F)
SV8COIL-24DC	8W coil for 24 Vdc 154°C (310°F) (Class F)
SV8COIL-24AC/60HZ	8W coil for 24 Vac/60Hz 182°C (360°F) (Class F)
SV8COIL-220AC	8W coil for 220 to 240 Vac/50 to 60 Hz 154°C (310°F) (Class F)
SV8COIL-115/60HZ	8W coil for 115 Vac/60 Hz 182°C (360°F) (Class H)
SV12COIL-120/60HZ	12W coil for 120 Vac/60 Hz 154°C (310°F) (Class F)
SV12COIL-12DC	12W coil for 12 Vdc 154°C (310°F) (Class F)
SV12COIL-24DC	12W coil for 24 Vdc 154°C (310°F) (Class F)
SV14COIL-24DC	14W coil for 24 Vdc 182°C (360°F) (Class H)
SV14COIL-24/50-60HZ	14W coil for 24 Vac/50 to 60Hz 182°C (360°F) (Class H)
SV14COIL-12DC	14W coil for 12 Vdc 182°C (360°F) (Class H)
Repair Kits (Include Diaphragm, Spring, Plunger, and O-rings)	
VRK-6000	Repair kit for SV6001, SV6002, SV6003
VRK-6000-NO	Repair kit for SV6002-NO, SV6003-NO
VRK-6045	Repair kit for SV6004, SV6005
VRK-6045-V	Repair kit for SV6004, SV6005 with FKM O-rings
VRK-6045-NO	Repair kit for SV6004-NO, SV6005-NO
VRK-6067	Repair kit for SV6006, SV6007
VRK-6067-V	Repair kit for SV6006, SV6007 with FKM O-rings
VRK-6067-NO	Repair kit for SV6006-NO, SV6007-NO
VRK-6008	Repair kit for SV6008
VRK-6008-V	Repair kit for SV6008 with FKM O-rings
VRK-6008-NO	Repair kit for SV6008-NO

cable grip connector.

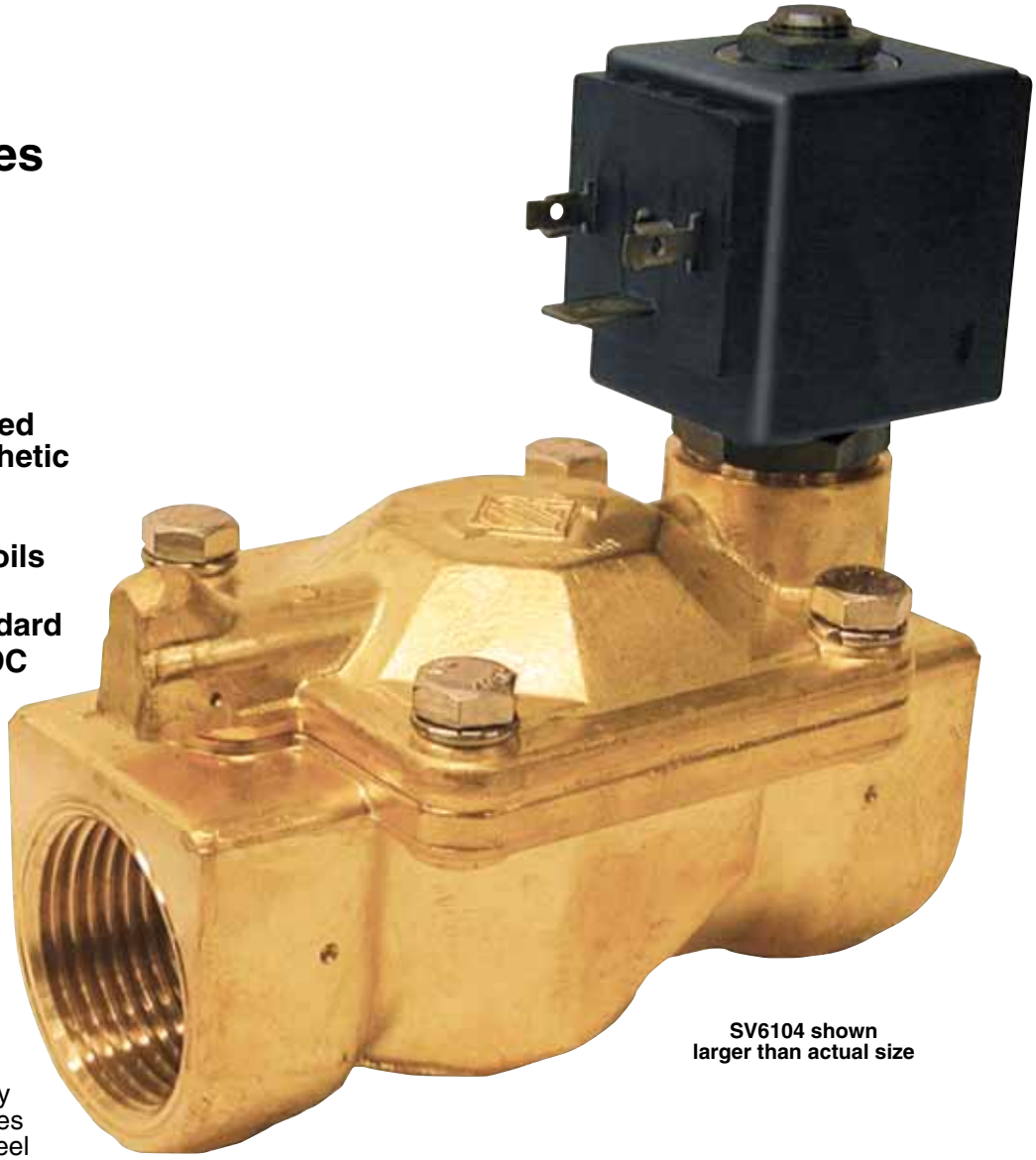
***SV8COIL-12DC**, 8W coil for 12 Vdc 154°C (310°F) (Class F).*

J

SV6100 Series

1 YEAR WARRANTY CE

- **Normally Closed**
- **Ideal for Compressed Air, Inert Gas, Synthetic Oils and Water**
- **120 Vac Standard (220 Vac and DC Coils are Optional)**
- **8 W, AC Coils Standard**
- **12 or 14 W, AC or DC Coils Available For Many Models**



SV6104 shown larger than actual size

SV6100 Series 2-way solenoid valves are internally piloted with assisted lift valves featuring Brass, stainless steel construction and FKM seal material. The temperature range from -10 to 137°C (14 to 280°F) and FKM O-ring material is ideal for neutral media such as compressed air, inert gases, synthetic oils and water.

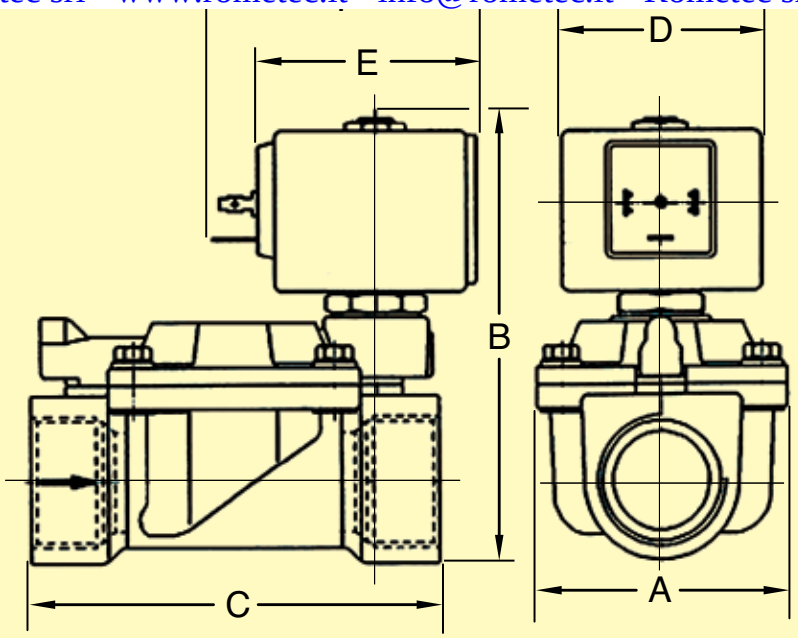
A strain-relief connector is supplied with each unit. A ½" conduit plug is also available.

SPECIFICATIONS

Mounting Position: Any (preferably with solenoid system upright)
Operating Ambient:
FKM O-Ring: -10 to 137°C (14 to 280°F)
Maximum Process Temperature: Coil dependent (see ratings on coils)
Voltage Tolerance: ±10%
Opening Time (msec): 200 to 500 approximately
Closing Time (msec): 100 to 4000 approximately
Cycling Rate: approximately 10 to 50 cpm
Duty Cycle: Continuous (100%)
Coil Molding Material:
Black Polyester (Class F): SV8COIL-115AC, SV8COIL-24DC/60HZ, SV8COIL-220AC
Black Polyamide (Class F): SV8COIL-12DC, SV8COIL-24DC, All 12 Watt coils
Black Polyphenylensulphide (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	Brass

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



Valve Dimensions SV6104/SV6107			
Model No.	**A**	**B**	**C**
SV6104	2 9/16"	4 1/8"	4 3/32"
SV6105		4 13/32"	
SV6106	3 7/8"	4 15/16"	5 21/32"
SV6107			

SV6100 Series 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 7/32"	2 21/32"

To Order

Normally Closed Model No.	Pipe Size	Orifice Size	Cv Flow Factor	O-Ring	Coils		Operating Pressure		
							Minimum psi	M.O.P.D.*	
					Standard	Optional		AC psi	AC psi
SV6104	3/4"	3/4"	9.8	FKM	8 W	–	2	230	230
SV6105	1"	1"	14	FKM	8 W	–	2	230	230
SV6106	1 1/4"	1 3/8"	28	FKM	8 W	–	2	150	150
SV6107	1 1/2"	1 1/2"	36	FKM	8 W	–	2	150	150

***** *Maximum operational pressure differential.*

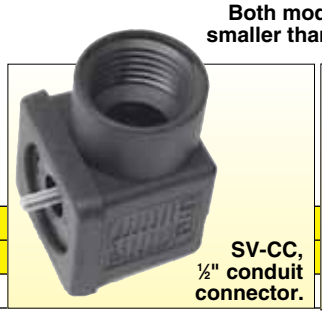
Comes complete with operator's manual, 8 W coil and cable grip connector.

***Ordering Examples: SV6105**, 1 NPT normally closed valve for 1" orifice.*

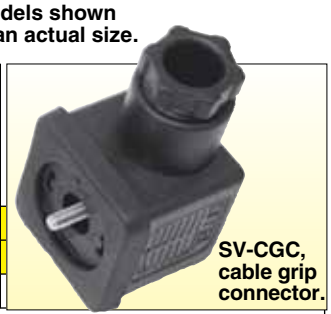
***SV6104**, 3/4" normally closed valve for 3/4" orifice.*

***SV8COIL-12DC,** 8 W coil for 12 Vdc 154°C (310°F) (Class F).*

Both models shown smaller than actual size.



SV-CC, 1/2" conduit connector.



SV-CGC, cable grip connector.

Accessories

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

***Ordering Examples: SV-CGC,** cable grip connector.*

***SV8COIL-12DC,** 8W coil for 12 Vdc 154°C (310°F) (Class F).*

SVH-111/SVH-112 Series

1 YEAR WARRANTY RoHS

- **Stainless Steel Construction**
- **NEMA 4 and 7**
- **Pressures up to 10,000 psi (Depending on Model)**

SVH-111 shown smaller than actual size.

The SVH-110 Series direct acting solenoid valves are normally closed valves that open when energized and close when de-energized. When the coil is energized the plunger lifts the piston off the valve seat, opening the valve. Upon de-energizing the coil, a spring closes the piston to seat it. The normally open valve operates similarly, closing when energized and opening when de-energized. No minimum pressure is required.

The SVH-110 Series are used to control the flow of high pressure air, water, hydrogen, nitrogen and other gases or light liquids compatible with materials of construction. They are also suitable for cryogenic applications.

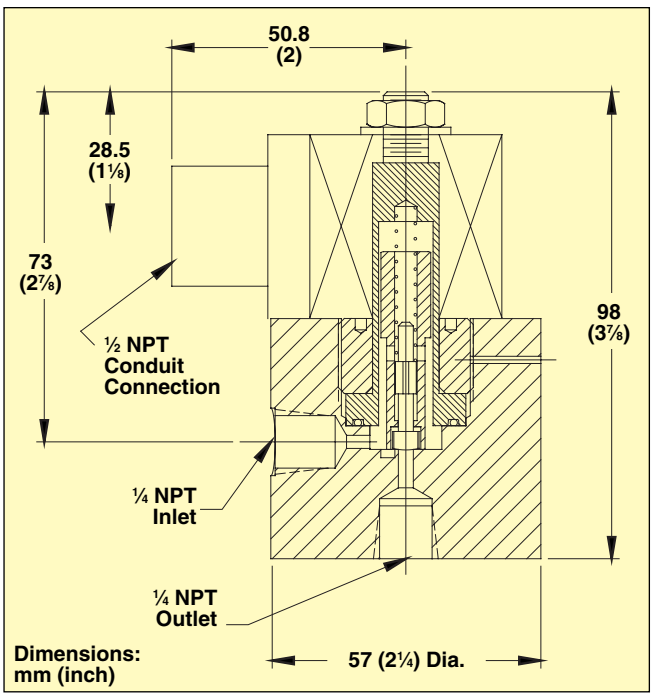
SPECIFICATIONS

Materials of Construction

Fluid Shipping Weight: 48 oz (3 lb)
Temperature: -212 to 204°C (-350 to 400°F)
Valve Body: 316 SS
Piston/Seal: 303 SS/FEP
O-Ring Seal: FEP
Spring: 302 SS
Plunger: 430 SS
Bonnet: 316 SS/430 SS
Bonnet Retainer: 430 SS
Port Connections: ¼ NPT
Cv: 0.005 (SVH-111), 0.02 (SVH-112)

Electrical

Power: 22 Watts
AC Inrush: 2.5 Amp @ 120 Vac
AC Holding: 0.2 Amp at 120 Vac
Insulation: Class "H"
Duty: Continuous
Enclosure: NEMA 4 and 7
Connection: ½ NPT, 457 mm (18") leads



Ordering Examples: SVH-111-DIN, *120 Vac, 10,000 psi, ¼ NPT solenoid with DIN electrical connector.*
SVH-111-OX, *oxygen cleaned, 120 Vac, 10,000 psi, ¼ NPT solenoid.*

To Order

Model No.	Coil Voltage	Port Diameter mm (inch)	Maximum Pressure
SVH-111	120 Vac	0.48 (0.019)	10,000 psig
SVH-111-24A	24 Vac	0.48 (0.019)	10,000 psig
SVH-111-240A	240 Vac	0.48 (0.019)	10,000 psig
SVH-111-24D	24 Vdc	0.48 (0.019)	5000 psig
SVH-111-120D	120 Vdc	0.48 (0.019)	5000 psig
SVH-112	120 Vac	0.81 (0.032)	4000 psig
SVH-112-24A	24 Vac	0.81 (0.032)	4000 psig
SVH-112-240A	240 Vac	0.81 (0.032)	4000 psig
SVH-112-24D	24 Vdc	0.81 (0.032)	2000 psig
SVH-112-120D	120 Vdc	0.81 (0.032)	2000 psig

Comes complete with operator's manual.
*For units with a DIN electrical connector add **"-DIN"** to the model number, for an additional charge.*
*For units for Hydrogen service (Helium leak test) add **"-HY"** to the model number, for an additional charge.*
*For Normally Open valve configuration add **"-NO"** to the model number, for an additional charge.*
*For Oxygen cleaned units add **"-OX"** to the model number, for an additional charge.*
*For units with Straight Thread J1926 with O-ring seal add **"-ST"** to the model number, for an additional charge.*
*For units with a Flared Tubing connection add **"-TC"** to the model number, for an additional charge.*
*For units to be installed in any orientation add **"-UM"** to the model number, for an additional charge.*

J

SVH-120 Series

1 YEAR WARRANTY RoHS

- **Stainless Steel Construction**
- **¼ or ½" Ports**
- **Pressures up to 10,000 psi (Depending on Model)**

SVH-120 shown actual size.

The new SVH-120 Series is a versatile, ¼ or ½" full port, high pressure, pilot operated, solenoid valve. The SVH-130 Series is a compact size, for where space is limited. The compact SVH-120 Series is ideal for flow control of high pressure air, water, compressed natural gas (CNG), hydrogen, nitrogen, and other gases or light liquids compatible with the materials of construction, and leverages this high pressure flow to its own advantage in operating effectively and efficiently.

The SVH-120 style valve is perfect for use in hydrogen dispensing tanks, commonly used in the refueling of fleet vehicles. It is also a used in many compressed natural gas applications. With available pressures to 10,000 psig there are a wide range of applications that include water, nitrogen and many other compatible liquids. This solenoid valve must be mounted with the solenoid upright and vertical.

SPECIFICATIONS

Materials Of Construction

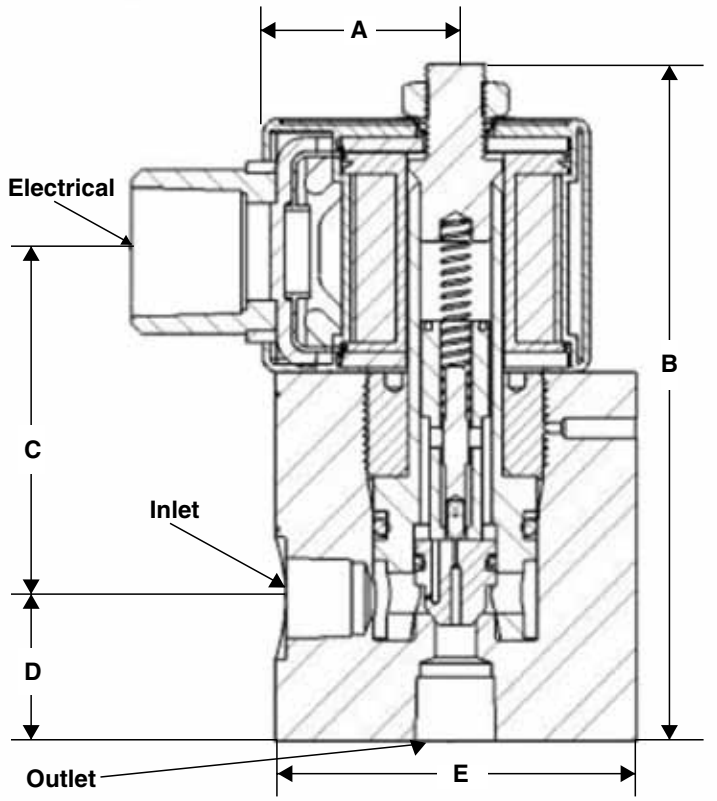
Valve Body: 316 SS
Pistons: PAEK
O-Rings: Buna-N/FKM "-VT"/PTFE
Backing Rings: Buna-N/FKM "-VT"/PTFE
Piston Rings/Seal: PTFE/302 SS
Cartridge: 316 SS/430 SS
Pilot/Seal: 303 SS/PTFE
Spring: 302 SS
Plunger: 430 SS
Bonnet Retainer: 430 SS
Cartridge Gasket: Nylon
Fluid Temp Range: -37 to 121°C (-35 to 250°F), -26 to 204°C (-15 to 400°F) (-VT)
Shipping Weight:
SVH-121: 1.8 kg (4 lbs)
SVH-122: 3.2 kg (7 lbs)

Cv: 4.5
Port Connections: ¼ NPT (SVH-121), ½ NPT (SVH-122)

Electrical

Duty: Continuous
Connection: ½ NPT, 18" leads
Power: 10 watts, 22 watts (-XP)
AC Inrush: 1 amp @120 Vac, 2.5 amp @120V AC (-XP)
AC Holding: 0.1 amp @ 120 Vac, 0.2 amp @ 120 Vac -XP
Insulation: Class "F", Class "H" -XP
Maximum Operating Pressure:
AC Voltage: 7,500 Psig, 10,000 psig -XP
DC Voltage: 3,600 PSIG, 7,200 psig -XP
Minimum Pressure: 100 psig

		Reference Dimensions (inches)				
Model No.	Weight lbs	A	B	C	D	E
SVH-121	2.85	2	4.1	2.1	0.9	ø 2.20
SVH-121-NO	3.1	2	4.8	2.1	0.9	ø 2.20
SVH-122	6.05	2	4.7	2.2	1.3	ø 3.00
SVH-122-NO	6.04	2	5.4	2.2	1.3	ø 3.00



To Order				
Model Number	Coil Voltage	Cv	Maximum Pressure	Maximum Pressure (-XP Option)
SVH-121	120 Vac	1.1	7500 psig	10,000 psig
SVH-121-24A	24 Vac	1.1	7500 psig	10,000 psig
SVH-121-240A	240 Vac	1.1	7500 psig	10,000 psig
SVH-121-24D	24 Vdc	1.1	3500 psig	10,000 psig
SVH-121-120D	120 Vdc	1.1	3500 psig	10,000 psig
SVH-122	120 Vac	4.5	5000 psig	7500 psig
SVH-122-24A	24 Vac	4.5	5000 psig	7500 psig
SVH-122-240A	240 Vac	4.5	5000 psig	7500 psig
SVH-122-24D	24 Vdc	4.5	3600 psig	7200 psig
SVH-122-120D	120 Vdc	4.5	3600 psig	7200 psig

Comes complete with operator's manual.
*For units with a DIN electrical connector add **"-DIN"** to the model number, for an additional charge.*
*For units for Hydrogen service (Helium leak test) add **"-HY"** to the model number, for an additonal charge.*
*For Normally Open valve configuration add **"-NO"** to the model number, for an additional charge.*
*For Oxygen cleaned units add **"-OX"** to the model number, for an additional charge.*
*For units with straight thread J1926 with o-ring seal add **"-ST"** to the model number, for an additional charge.*
*For units with a flared tubing connection add **"-TC"** to the model number, for an additional charge.*
*For units with FKM o-rings add **"-VT"** to the model number, for an additional charge.*
*For units with a higher pressure coil add **"-XP"** to the model number, for an additional charge.*

NEW

SVH-140 Series

1 YEAR WARRANTY RoHS

- **Stainless Steel Body**
- **Models for Gas or Liquid**
- **½ to 2" Ports**
- **Pressures up to 1500 psi (Depending on Model)**

SVH-143G shown smaller than actual size.

The powerful, full port SVH-140 Series is great for a wide range of flow rates, temperatures, and a wide range of fluids and gases. It has become a popular choice for cryogenic conditions and applications that need to control higher pressures. This pilot assisted, direct operated valve is available in larger pipe sizes (up to 2") and for inlet pressures up to 1500 psig.

The versatile SVH-140 requires no minimum pressure for opening, and has the option to be universally mounted (normally closed or normally open).

Other uses of the SVH-140 include controlling the flow of corrosive fluids, deionized water, condensate, ammonias, vegetable oils, fuel oils, hydrogen, cryogenics, flammable liquids and gases and other gases or liquids compatible with materials of construction.

SPECIFICATIONS

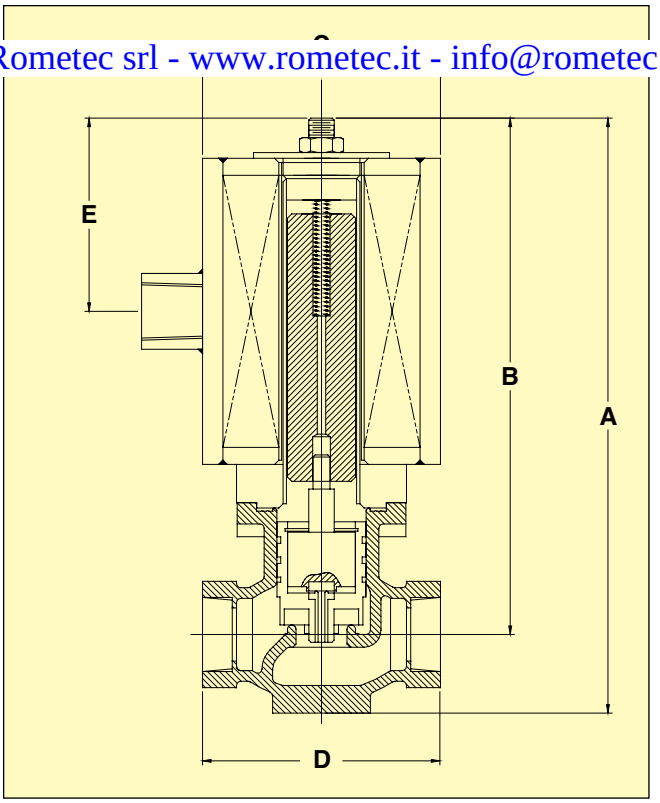
Materials Of Construction

Valve Body: 316 SS (CF8M)
Piston: 303 SS
Pistons Rings: PTFE
Plunger: 430 SS
Pilot Valve: 303 SS
Bonnet Tube: 304 SS
Bonnet Base Flange: 304 SS
Spring: 302 SS
Body Seal: Non-asbestos gasket
Valve Disc: PTFE

Electrical

Coil: Encapsulated Class “H”, 457 mm 18" leads all AC/DC voltages
Coil Enclosure: Carbon steel-coil enclosure is completely seal-welded NEMA 4,7

J



Model No.	Dimensions: mm (inch)				
	A	B	C	D	E
SVH-141	216 (8.5)	190 (7.5)	89 (3.5)	84 (3.3)	71 (2.8)
SVH-142	223 (8.8)	193 (7.6)	89 (3.5)	89 (3.5)	71 (2.8)
SVH-143	236 (9.3)	198 (7.8)	89 (3.5)	107 (4.2)	71 (2.8)
SVH-144	295 (11.6)	216 (8.5)	114 (4.5)	124 (4.9)	84 (3.3)
SVH-145	315 (12.4)	259 (10.2)	114 (4.5)	152 (6)	84 (3.3)

To Order

Gas Model No.	Liquid Model No.	Port Size	Coil Voltage	Cv	Shipping Weight oz (lb)	Maximum Differential Pressure
SVH-141G	SVH-141L	½"	120 Vac	3.5	240 (15)	1500 psig
SVH-141G-240A	SVH-141L-240A	½"	240 Vac	3.5	240 (15)	1500 psig
SVH-141G-12D	SVH-141L-12D	½"	12 Vdc	3.5	240 (15)	1500 psig
SVH-141G-24D	SVH-141L-24D	½"	24 Vdc	3.5	240 (15)	1500 psig
SVH-142G	SVH-142L	¾"	120 Vac	7.5	256 (16)	1200 psig
SVH-142G-240A	SVH-142L-240A	¾"	240 Vac	7.5	256 (16)	1200 psig
SVH-142G-12D	SVH-142L-12D	¾"	12 Vdc	7.5	256 (16)	1200 psig
SVH-142G-24D	SVH-142L-24D	¾"	24 Vdc	7.5	256 (16)	1200 psig
SVH-143G	SVH-143L	1"	120 Vac	13	288 (18)	1200 psig
SVH-143G-240A	SVH-143L-240A	1"	240 Vac	13	288 (18)	1200 psig
SVH-143G-12D	SVH-143L-12D	1"	12 Vdc	13	288 (18)	1200 psig
SVH-143G-24D	SVH-143L-24D	1"	24 Vdc	13	288 (18)	1200 psig
SVH-144G	SVH-144L	1½"	120 Vac	25	480 (30)	1200 psig
SVH-144G-240A	SVH-144L-240A	1½"	240 Vac	25	480 (30)	1200 psig
SVH-144G-12D	SVH-144L-12D	1½"	12 Vdc	25	480 (30)	1200 psig
SVH-144G-24D	SVH-144L-24D	1½"	24 Vdc	25	480 (30)	1200 psig
SVH-145G	SVH-145L	2"	120 Vac	48	608 (38)	1200 psig
SVH-145G-240A	SVH-145L-240A	2"	240 Vac	48	608 (38)	1200 psig
SVH-145G-12D	SVH-145L-12D	2"	12 Vdc	48	608 (38)	1200 psig
SVH-145G-24D	SVH-145L-24D	2"	24 Vdc	48	608 (38)	1200 psig

Comes complete with operator's manual.
*For units with a DIN electrical connector add **"-DIN"** to the model number, for an additional charge.*
*For units with 24 Vac coil add **"-24A"** to the model number, no additional charge.*
*For units with 120 Vdc coil add **"-120D"** to the model number, no additional charge.*
*For units for Hydrogen service (Helium leak test) add **"-HY"** to the model number, for an additional charge.*
*For Normally Open valve configuration add **"-NO"** to the model number, for an additional charge.*
*For Oxygen cleaned units add **"-OX"** to the model number, for an additional charge.*
*For Cryogenic service units add **"-CY"** to the model number, for an additional charge.*
Units available with connection type: Socket weld, 150, 300 and 600# flanges. Contact Omega for pricing.