

# 2-WAY GENERAL PURPOSE SOLENOID VALVES

## SV120 Series

Starts at



- ✓ 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, shown close to actual size.



SV126, shown close to actual size.

# DIRECT-ACTING OR PILOT-OPERATED 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.

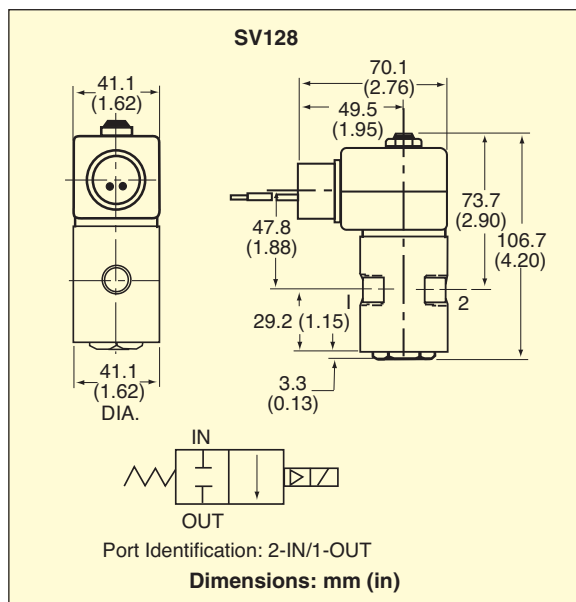
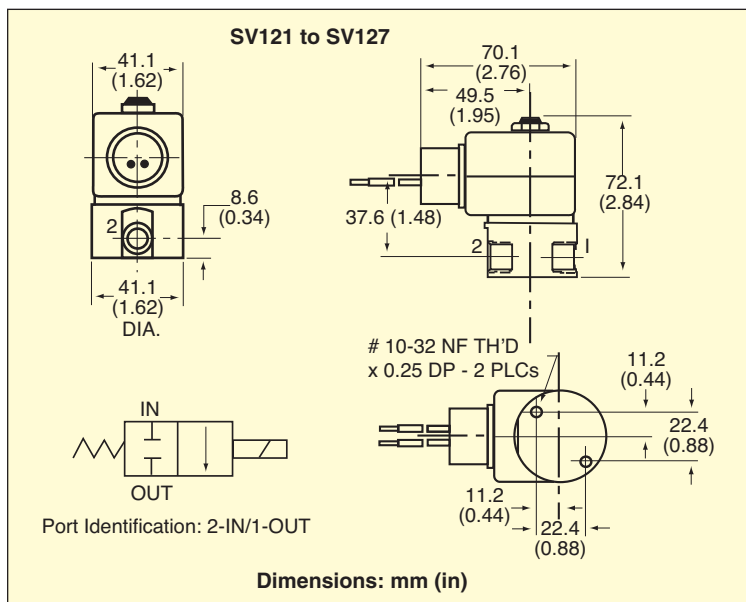
## SPECIFICATIONS

### 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)



**MOST POPULAR MODELS HIGHLIGHTED!**

## To Order (Specify Model Number)

MODEL NO.	NPT FITTING	ORIFICE	C <sub>v</sub>	SEAL	DIFF PRESSURE (psid)		TEMP		RESPONSE TIME	
					MIN	MAX	°C	°F	OPEN	CLOSE
SV121	1/4	3/64"	0.06	KEL-F	0	1000	74	165	4 to 15 ms	4 to 15 ms
SV122	1/4	3/64"	0.06	FKM	0	450	116	240	4 to 15 ms	4 to 15 ms
SV123	1/4	1/16"	0.10	FKM	0	350	116	240	4 to 15 ms	4 to 15 ms
SV124	1/4	3/32"	0.18	FKM	0	275	116	240	4 to 15 ms	4 to 15 ms
SV125	1/4	1/8"	0.28	FKM	0	200	116	240	4 to 15 ms	4 to 15 ms
SV126	1/4	5/32"	0.40	FKM	0	90	116	240	4 to 15 ms	4 to 15 ms
SV127	1/4	1/4"	0.75	FKM	0	40	116	240	4 to 15 ms	4 to 15 ms
SV128*	1/4	1/4"	0.76	PTFE	5	1500	99	210	30 to 60 ms	30 to 60 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

\* 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,

SV128, pilot operated stainless steel normally closed valve with 1/4 orifice and PTFE seal,

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

