

# 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

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



SV292 shown actual size.

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

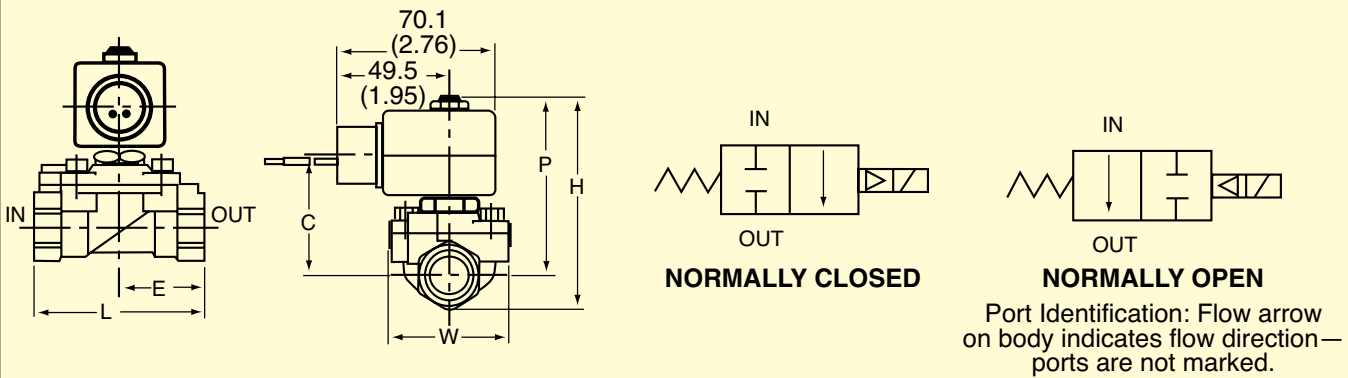
**Ambient Temp:** -9 to 50°C (15 to 122°F)

**Mounting:** Pipe mounting, any direction

**Power:** 10 W, 120 Vac, Class F

# PILOT-OPERATED, NORMALLY OPEN, BRASS VALVE BODY, 2-WAY ANTI-WATERHAMMER SOLENOID VALVES

SV291 and SV292



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 <sub>v</sub>	SEAL	DIFF PRES (psid)		TEMP		RESPONSE TIME	
					MIN	MAX	°C	°F	OPEN	CLOSE
SV291	3/4	3/4"	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 3/4 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.