



2-WAY ANTI-WATERHAMMER SOLENOID VALVES

SV280 Series

Starts at
\$215



- ✓ Durable Brass Valve Body
- ✓ SV283 to SV287 Offer Adjustable Closing Time and Manual Override

TYPICAL APPLICATIONS

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

The SV281 through SV287 Series valves are 2-way, pilot-operated, anti-waterhammer, and normally closed. 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 in the industry. The SV283 through SV287 valves offer additional features. To reduce



SV285, \$480, shown larger than actual size.

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. There is also a manual override screw that is only used if the coil has failed.

SPECIFICATIONS

Operation: SV281 to SV287 pilot operated

Wetted Parts: Brass, stainless steel, copper, and seal (SV281 and SV282, also FKM)

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 CLOSED, BRASS VALVE BODY, 2-WAY ANTI-WATERHAMMER SOLENOID VALVES



SV281 and SV282

10-24 UNC TH'D
x 0.22 DP-2 PLCs

Port Identification: 1-IN/2-OUT

Dimensions: in

VALVE	H	P	C	L
SV281	3.56	2.97	1.96	2.17
SV282	3.56	2.97	1.96	1.97

SV283 to 287

Dimensions: in

VALVE	H	P	C	L	W
SV283	4.75	3.86	2.84	3.94	2.75
SV284	4.75	3.86	2.84	3.94	2.75
SV285	5.41	4.11	3.09	4.33	2.75
SV286	5.66	4.37	3.35	5.51	3.90
SV287	6.25	4.60	3.58	5.91	3.90

NORMALLY CLOSED **NORMALLY OPEN**

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

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

MODEL NO.	PRICE	NPT FITTING	ORIFICE	C _v	SEAL	DIFF PRES (psid)		TEMP		RESPONSE TIME	
						MIN	MAX	°C	(°F)	OPEN	CLOSE
SV281*	\$215	3/8	7/16	2.5	Buna-N	3	150	85	(185)	15 ms	850 ms
SV282*	215	1/2	9/16	2.5	Buna-N	3	150	85	(185)	15 ms	850 ms
SV283	275	3/4	3/4	9.6	Buna-N	5	230	85	(185)	100 to 250 ms	0.6 to 4.5 s
SV284	495	1	1	12.5	Buna-N	5	230	85	(185)	100 to 250 ms	0.5 to 4.5 s
SV285	480	1 1/4	1 1/8	19.3	Buna-N	5	230	85	(185)	250 to 500 ms	0.8 to 5.8 s
SV286	725	1 1/2	1 9/16	29.0	Buna-N	5	230	85	(185)	250 to 400 ms	1.5 to 9.0 s
SV287	830	2	1 9/16	38.6	Buna-N	5	230	85	(185)	250 to 450 ms	1.5 to 9.5 s

* Response time is non-adjustable.

ACCESSORIES

MODEL NO.	PRICE	DESCRIPTION
SVCOIL-110AC	\$45	Replacement coil, 110 Vac
SVCOIL-220AC	50	Replacement coil, 220 Vac
SVCOIL-24VDC	50	Replacement coil, 24 Vdc
GE-2317	131	Reference Book: Valve Handbook

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: SV283, 2-way, anti-waterhammer, pilot-operated, brass body NC valve with 3/4 NPT fitting and Buna-N seal, \$275. SV287, 2-way, anti-waterhammer, pilot-operated, brass body NC valve with 2 NPT fitting and Buna-N seal, \$830.

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