

# HIGH PRESSURE SOLENOID VALVE



## SVH-140 Series



- ✓ **Stainless Steel Body**
- ✓ **Models for Gas or Liquid**
- ✓ **1/2 to 2" Ports**
- ✓ **Pressures up to 1500 psi  
(Depending on Model)**

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.



SVH-143G shown smaller than actual size.

### 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

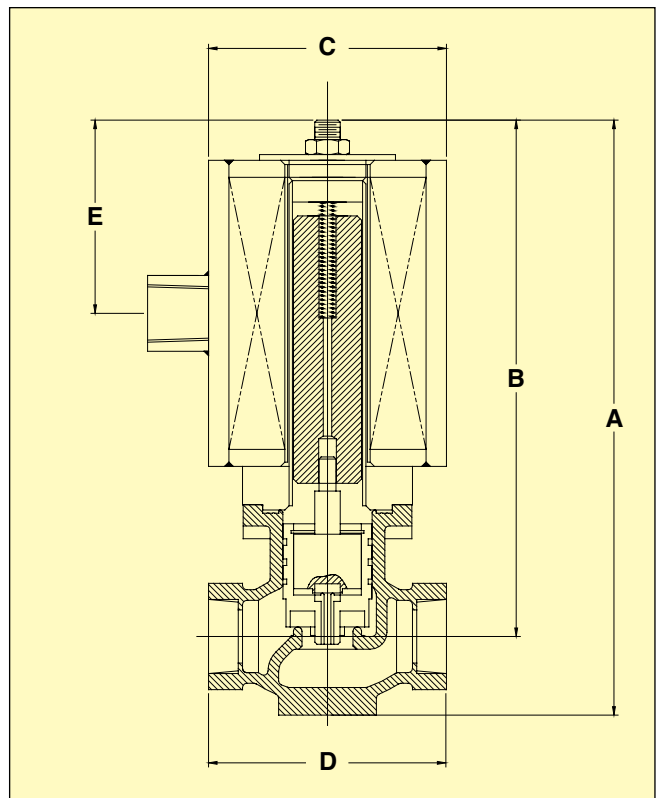
**Valve Disc:** PTFE

#### 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

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	1/2"	120 Vac	3.5	240 (15)	1500 psig
SVH-141G-240A	SVH-141L-240A	1/2"	240 Vac	3.5	240 (15)	1500 psig
SVH-141G-12D	SVH-141L-12D	1/2"	12 Vdc	3.5	240 (15)	1500 psig
SVH-141G-24D	SVH-141L-24D	1/2"	24 Vdc	3.5	240 (15)	1500 psig
SVH-142G	SVH-142L	3/4"	120 Vac	7.5	256 (16)	1200 psig
SVH-142G-240A	SVH-142L-240A	3/4"	240 Vac	7.5	256 (16)	1200 psig
SVH-142G-12D	SVH-142L-12D	3/4"	12 Vdc	7.5	256 (16)	1200 psig
SVH-142G-24D	SVH-142L-24D	3/4"	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	1 1/2"	120 Vac	25	480 (30)	1200 psig
SVH-144G-240A	SVH-144L-240A	1 1/2"	240 Vac	25	480 (30)	1200 psig
SVH-144G-12D	SVH-144L-12D	1 1/2"	12 Vdc	25	480 (30)	1200 psig
SVH-144G-24D	SVH-144L-24D	1 1/2"	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 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.