### **Technical Information**

## **General Description**

The SVH101 Series, Pilot Operated, Sequence Valves are used to control the sequence of operation of two or more hydraulic actuators by assuring priority hydraulic pressure to one actuator before another.

# **Operation**

When pilot pressure exceeds the valve setting, the pilot section opens. This pilot flow creates a pressure imbalance across the main section causing the valve to open and permitting flow from inlet to sequence. By externally draining the pilot flow directly to tank the valve is insensitive to back pressure at the sequence port.

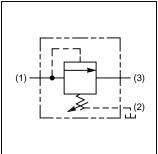
### **Features**

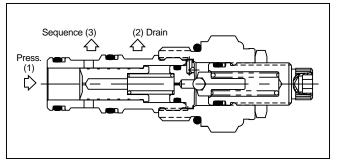
- Hardened, precision ground parts for durability
- High accuracy, pilot operation design
- Ball-type pilot for added stability
- All external parts have yellow zinc dichromate. This
  coating allows them to withstand a 200 hour salt spray
  test.

# **Specifications**

Maximum Flow	56.3 LPM (15 GPM)
Maximum Inlet Pressure	380 Bar (5500 PSI) - Steel 210 Bar (3000 PSI) - Aluminum
Maximum Setting Pressure	345 Bar (5000 PSI) - Steel 210 Bar (3000 PSI) - Aluminum
Maximum Drain Flow	.94 LPM (.25 GPM)
Reseat Pressure	80% of crack pressure
Leakage	82 cc/min.
Operating Temp. Range (Ambient)	-40°C to +93.3°C (Nitrile) (-40°F to +200°F) -31.7°C to +121.1°C (Fluorocarbon) (-25°F to +250°F)
Cartridge Material	All parts steel. All operating parts hardened steel.
Body Material	Steel or Aluminum
Filtration	ISO Code 16/13, SAE Class 4 or better
Mounting	No restrictions
Cavity	Common Cavity No. C10-3



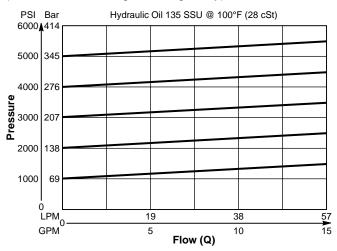




## **Performance Curve**

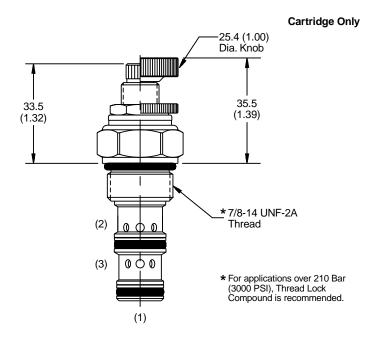
#### Flow vs. Inlet Pressure

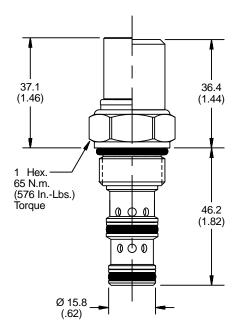
(Pressure rise through cartridge only)



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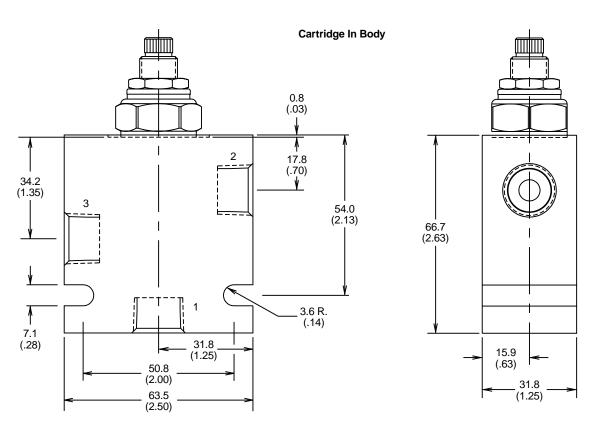
\*Inch equivalents for millimeter dimensions are shown in (\*\*)





Screw/Knob Version

**Fixed Cap/Tamper Resistant Version** 



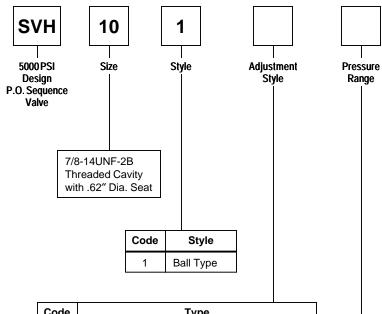


svh101.pm6.5, bl, II

Note: Static pressure in Port 2 to be 210 Bar (3000 PSI) maximum.



# **Ordering Information**



Code	Туре
F	Fixed style, preset at factory. Specify desired flow and pressure. i.e. 103.5 Bar (1500 PSI) @ 11.3 LPM (3 GPM). Note: For any given valve setting, any change in flow will cause a change in pressure.
K	Knob Adjust
S	Screw Adjust
Т	Tamper Resistant Cap

Code	Туре	
10	6.9 - 69 Bar (100 - 1000 PSI) Standard Setting: 34.5 Bar (500 PSI) @ 11.3 LPM (3 GPM)	
20	6.9 - 138 Bar (100 - 2000 PSI) Standard Setting: 69 Bar (1000 PSI) @ 11.3 LPM (3 GPM)	
30	6.9 - 207 Bar (100 - 3000 PSI) Standard Setting: 103.5 Bar (1500 PSI) @ 11.3 LPM (3 GPM)	
50	6.9 - 345 Bar (100 - 5000 PSI) Standard Setting: 172.4 Bar (2500 PSI) @ 11.3 LPM (3 GPM)	

Opti Pres Set	sure		Seals	Body Option
		Code	Туре	
		Omit	Nitrile	
		V	Fluorocarbon	
		Descripti	on	7
Setting 6.9 to 3	e ÷ 10 2 = 162 Range 45 Ba	) 2 Bar (23 e: r (100 to	5 = 2350 PSI) 5000 PSI) M (3 GPM)	

Code	Port Size & Material		
Omit	Cartridge Only		
4P	1/4" NPTF (B10-3-4P) Steel		
A4P	1/4" NPTF (B10-3-A4P) Aluminum		
6P	3/8" NPTF (B10-3-6P) Steel		
A6P	3/8" NPTF (B10-3-A6P) Aluminum		
8P	1/2" NPTF (B10-3-8P) Steel		
A8P	1/2" NPTF (B10-3-A8P) Aluminum		
6T	SAE-6 (B10-3-6T) Steel		
A6T	SAE-6 (B10-3-A6T) Aluminum		
8T	SAE-8 (B10-3-8T) Steel		
A8T	SAE-8 (B10-3-A8T) Aluminum		
4B	1/4" BSPG (B10-3-4B) Steel		
A4B	1/4" BSPG (B10-3-A4B) Aluminum		
6B	3/8" BSPG (B10-3-6B) Steel		
A6B	3/8" BSPG (B10-3-A6B) Aluminum		

#### NOTE:

If system pressure does not exceed 210 Bar (3000 PSI), aluminum bodies can be used. Higher pressures require steel bodies.

## **SERVICE PARTS**

**Knob Option:** 852605 & 852634 (To convert screw adjust to knob adjust)

Nitrile Seal Kit: SK10-3

Fluorocarbon Seal Kit: SK10-3V

Shipping Weight

Cartridge Only .45 kg (1.0 lbs.) Cartridge in Body 1.2 kg (2.7 lbs.)



