



# SUPERLOK USA

## Check Valve Series

SHCV, SOCV, SOACV, SACV Series



# SUPERLOK USA

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# HIGH PRESSURE CHECK VALVES

## SHCV SERIES



### Features

- Pressure rating up to 6,000psig(413bar) at 100 °F (37°C)
- Temperature rating up to 375 °F (190°C) with viton seal standard
- Cracking pressure fixed from 1/3 to 25psig (0.02 to 1.7bar)
- Variety of end connections
- 316 stainless steel body material as standard.
- Each and every valve is tested at the factory.

### Technical Data

Series	Orifice (mm)	Working and Back Pressure @70 °F(20 °C)	Flow Coefficient Cv	Nominal Cracking Pressure
SHCV1	4.8	6000psig (413bar)	0.67	1/3, 1, 5, 10, 25 psig (0.02, 0.06, 0.34, 0.68, 1.7 bar)
SHCV2	7.8		1.80	
SHCV3	15.0	5000psig (344bar)	4.70	

### Seal Materials

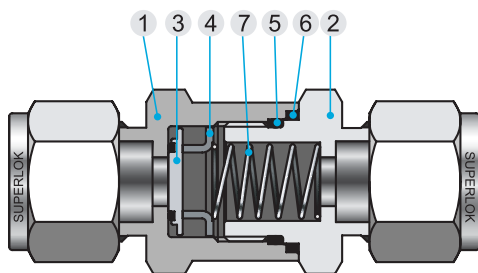
Material	Temperature Rating	Designator
Viton	-10 °F to 375 °F (-23°C to 190°C)	Standard
NBR	-10 °F to 250 °F (-23°C to 121°C)	N
Ethylene Propylene	-50 °F to 300 °F (-45°C to 148°C)	E

To order add the seal material designator to the ordering number.  
ex) SHCV1-S8-1P-N

### Cracking Pressure and Reseal Pressure at 70 °F (20°C)

Nominal Spring Size psig(bar)	Cracking Pressure Range psig(bar)	Min. Reseal Pressure psig(bar)	Designator
1/3 (0.02)	0~3 (0~0.20)	6 (0.41) back pressure	0.3P
1 (0.068)	0~4 (0~0.27)	5 (0.34) back pressure	1P
5 (0.34)	3~9 (0.20~0.62)	2 (0.13) back pressure	5P
10 (0.68)	7~15 (0.48~1.0)	3 (0.20)	10P
25 (1.7)	20~30 (1.3~2.0)	17 (1.1)	25P

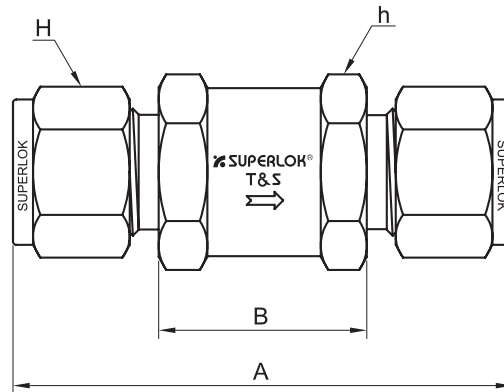
### Materials of Construction



No.	Component	Material
1	Inlet Body	SS316
2	Outlet Body	SS316
3	Poppet	Viton-bonded SS316
4	Poppet Stopper	SS316
5	O-Ring	Viton standard
6	Packing	PTFE
7	Spring	SS304

#### Testing

All valves are factory tested for cracking pressure and reseal performance.



**Table of Dimensions**

Order Number		Orifice (mm)	Cv Max.	End Connection	Pressure Rating psig (bar)	Dimensions (mm)			
Series	Part No.					A	B	H	h
SHCV1	S2	4.8	0.67	1/8" SUPERLOK	6000 (413)	57.7	26.4	11.1(9/16)	17.5 (11/16)
	S4			61.7		14.3(7/16)			
	S6M			6mm SUPERLOK		14			
	F4N			1/4" FEMALE NPT		54.1	-	-	
	M2N			1/8" MALE NPT		45.5	26.4		
	M4N			1/4" MALE NPT		55.1			
SHCV2	S6	7.8	1.8	3/8" SUPERLOK	6000 (413)	69.9	31.2	17.5(11/16)	25.4(1)  26.9(1-1/16)
	S8			1/2" SUPERLOK		75.2		22.2(7/8)	
	S8M			8mm SUPERLOK		68.6		16	
	S10M			10mm SUPERLOK		71.1		19	
	S12M			12mm SUPERLOK		75.2		22	
	F6N			3/8" FEMALE NPT	5000 (344)	64.8	-		
	F8N			1/2" FEMALE NPT	4600 (316)	77.0	-		
	M6N			3/8" MALE NPT	6000 (413)	59.9	31.2		
	M8N			1/2" MALE NPT	69.3				
SHCV3	S12	15	4.7	3/4" SUPERLOK	5000 (344)	89.4	45.5	28.6(1-1/8)	41.3 (1-5/8)
	S16			1" SUPERLOK	4700 (323)	98.6		38.1(1-1/2)	
	S22M			22mm SUPERLOK	5000 (344)	88.4		32	
	S25M			25mm SUPERLOK	5000 (344)	98.6	40		
	F12N			3/4" FEMALE NPT	4300 (296)	82.0	-	-	
	F16N			1" FEMALE NPT	4100 (282)	97.3			
	M12N			3/4" MALE NPT	5000 (344)	83.6	45.5		
	M16N			1" MALE NPT	93.2	45.7			

Dimensions, shown on the above table, are measured based on finger-tight.  
All dimensions are for reference only, subject to change.

**Ordering information**

**SHCV2 - S 6 - 1P - SS**

1
2
3
4
5

1 : Valve Series    2 : End Connection Type    3 : Connection Size    4 : Cracking Pressure Designator  
5 : Body Material Designator [SS : 316 stainless steel(standard), B : Brass]