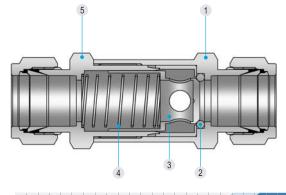
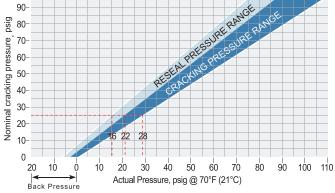
# **CHECK VALVES**

## **SUPERLOK**®



## **Materials of Construction**





No.	Description	Material			
1	Inlet Body	ASTM A276 Type 316			
2	O-Ring	Viton			
3	Poppet	ASTM A276 Type 316			
4	Spring	304 Stainless Steel			
5	Outlet Body	ASTM A276 Type 316			

#### O-Rings

<b>O-ring Material</b>	Temperature Rating °F(°C)	Designator	
Buna N	-10 to 250 (-23 to 121)	-N	
Ethylene Propylene	-70 to 250 (-57 to 121)	-E	
Viton (Fluorocarbon)	-10 to 375 (-23 to 191)	Standard	
Kalrez	-15 to 500 (-26 to 260)	-K	
Neoprene	-35 to 225 (-37 to 107)	-P	

To order, insert the seal material designator into the valve ordering number. ex)SPCV-S8-1P-N

#### **Back Pressure**

Back pressure may be required to reseal the valves with nominal cracking pressure of 5psi or lower.

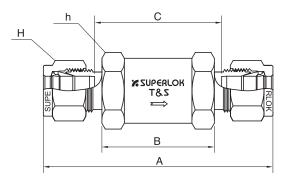
**Example**: For a valve with a spring having a rated cracking pressure of 25 psig (1.72 bar), the actual cracking pressure ranges between 22 and 28 psig (1.52 to 1.93 bar). The re-seal pressure range would be 16 to 22 psig (1.10 to 1.52 bar). Check valves having springs with rated crack pressure of 3 psig (0.21 bar) or less may require up to 4 psig (0.28 bar) back pressure to re-seal bubble-tight.

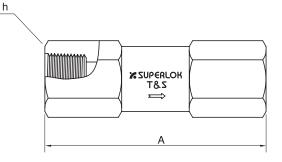
#### Testing

Every check valve is factory tested for crack and reseal performance.



## **CHECK VALVES** Table of Dimensions





Order Number		0.4	End Connection	Dimensions					
Series	Par	t No.	Cv	End Connection	Α	В	С	h	Н
	S	2	0.1	1/8 SUPERLOK	57.15	26.6	31.2	15.88	11.11
	F	2N	0.47	1/8 Female NPT	50.00	-	-	15.88	-
SPCV	S	4	0.47	1/4 SUPERLOK	62.16	26.6	31.4	15.88	14.28
	F	4N	0.47	1/4 Female NPT	57.10	-	-	19.05	-
	S	6	1.5	3/8 SUPERLOK	76.20	37.6	42.4	22.22	17.46
	F	6N	1.7	3/8 Female NPT	73.90	-	-	22.22	-
	S	8	1.7	1/2 SUPERLOK	86.58	42.9	40.8	25.40	22.22
	F	8N	2.6	1/2 Female NPT	90.60	-	-	27.00	-
	S	10	2.6	5/8 SUPERLOK	91.68	48.0	42.8	28.50	25.40
	S	12	4.5	3/4 SUPERLOK	99.78	56.1	51.1	31.80	28.57
	F	12N	4.5	3/4 Female NPT	99.78	-	-	31.80	-
	S	16	4.5	1 SUPERLOK	111.22	58.4	48.9	38.10	38.1
	F	16N	4.5	1 Female NPT	114.30	-	-	41.27	-

All dimension are for reference only, subject to change.

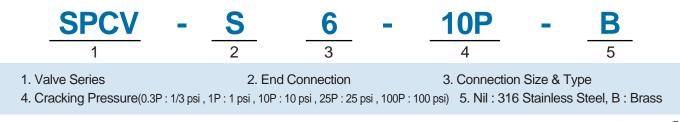
## **Technical Data**

Cracking pressure - the differential pressure between inlet and outlet, at which an initial flow is passing through the valve. Reseal pressure - the differential pressure between outlet and inlet, at which no flow is passing through the valve.

Nominal Cracking Pressure psi (bar)	Cracking Pressure Range psi(bar)	Reseal Pressure psi (bar)	down stream pressure psi (ba	
1/3 (0.02)	up to 3 (0.21)	up to 6 (0.4) downstream pressure	1/8 in	1000 (00 0)
1 (0.07)	up to 4 (0.28)	up to 6 (0.4) downstream pressure	1/4 in	1000 (68.9)
10 (0.69)	7 to 15 (0.5 to 1.1)	3 (0.21) upstream pressure	3/8 in, 1/2 in	000 (10 7)
25 (1.8)	20 to 30 (1.4 to 2.1)	17 (1.2) upstream pressure	3/4 in, 1 in	200 (13.7)

\*For cracking pressure of 25psi (1.8bar), downstream pressure is 3000psig (206bar).

## **Ordering Information**



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⑦626-110 경상남도 양산시 북정동 21-1 ⑦626-110, 21-1, Bukjeong-dong Yangsan-si Gyeongsang nam-do Korea TEL. 82-55-783-1000 FAX. 82-55-783-1111

### SPCV Series