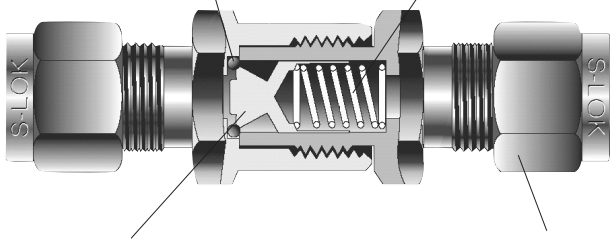
SCV30 Series For working pressure up to 3000 psig(206bar)

O-ring Seals
-Ensures Valve closes bubble tight

Fixed Cracking Pressures
-From 1/3psi to 25psi



Back stopped Poppet
-Minimize Spring stress

Various End Connections
-include S-LOK Tube Fittings
-NPT & ISO Male/Female Threads

Features

- Pressure rating up to 3,000psig (206bar) @ 70°F (21°C).
- Temperrature rating up to 375°F (191°C) with Standard Vition O-ring.
- Choice of materials : Standard S316 and Brass.
- Cracking pressures include : 1/3, 1, 3, 10, 25, 50psi.
- Heat code traceability.
- Every valve is 100% factory tested for cracking and reseal.

Technical Data

Valve Series	SCV1, SCV2, SCV3	SCV4, SCV5, SCV6
Max. Working Pressure @70°F (21°C)	S316 and Brass 3000psi (206bar)	S316 : 2000psi (137bar) Brass: 1500psi (103bar)
Operating Temperature Range	Viton : -10°F to 375°F (-23°C to 190°C) Buna-N : -4°F to 221°F(-20°C to 105°C)	
Nominal Cracking Pressure	1/3, 1, 3, 10, 25, 50psi	

Cracking, Reseal and Back Pressure

- ***Cracking Pressure***

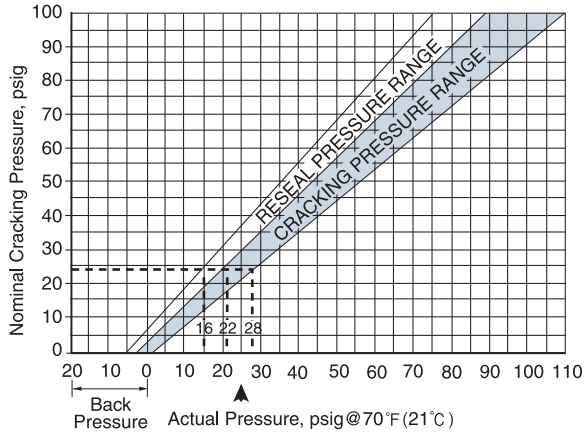
  The upstream pressure at which a detectable flow is Measured. The Check valve is actuated when the pressure difference between the inlet and the outlet reaches the range of cracking pressure.

- ***Reseal Pressure***

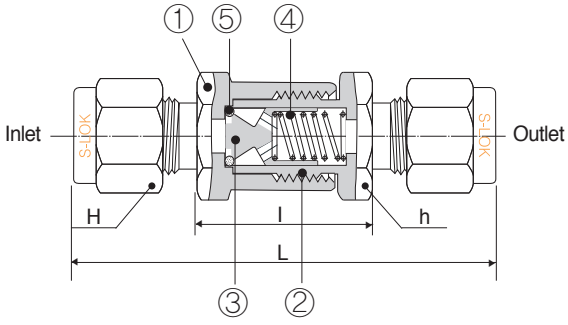
  The downstream pressure at which the check valve closes bubble-tight. The Check valves that have higher cracking pressure can be resealed to bubble-tight by the spring force. The reseal pressure is the pressure at the same flow direction, but lower then the cracking pressure.

- ***Back Pressure***

  The Check valves that have cracking pressure 5psig(0.34bar) and lower may not be able to return to the bubble-tight seal. This may require back pressure to press the seal to form a bubble-tight contact in addition to the spring force.



Note -When the check valve is not actuated for a period of time, it may require initially crack at higher than the above cracking pressure ranges.
-Check valves are designed for directional flow control only. Therefore **HANSUN check valves** should never be used as code Safety relief devices.



Materials of Construction

Item	Description	Valve Body Materials	
		S316	Brass
1	Body	S316/A479, A276	Brass
2	Connector		
3	Poppet	S316/A479, A276	Brass/B16
4	Spring	S302	
5	O-ring	Viton	

* Silicone-based Lubricant for poppet.
Wetted parts are listed in orange color.

Ordering Information and Dimensions

Basic Ordering Number		Orifice mm(inch)	Cv	End Connections Inlet/Outlet	Dimensions (mm) h	H	L	l
SCV1	S-2T	4.8 (0.19)	0.16	1/8″ S-LOK	15.88(5/8)	11.11(7/16)	55.60(2.19)	25.00(0.98)
	M-2N		0.47	1/8″ Male NPT		-	44.40(1.75)	-
	F-2N			1/8″ Female NPT		-	46.50(1.83)	25.00(0.98)
	S-4T			1/4″ S-LOK		14.29(9/16)	60.00(2.36)	
	S-6M			6mm S-LOK		14.00		
	MS-4N4T			1/4″ Male NPT / 1/4″ S-LOK		14.29(9/16)	56.40(2.22)	
	M-4N			1/4″ Male NPT		-	53.40(2.10)	
SCV2	F-4N	7.1 (0.28)	1.48	1/4″ Female NPT	19.05(3/4)	-	56.80(2.24)	-
	S-6T			3/8″ S-LOK		17.46(11/16)	65.50(2.58)	27.10(1.07)
	S-10M			10mm S-LOK		19.00		
	M-6N			3/8″ Male NPT		-	55.50(2.19)	
SCV3	F-6N	10.0 (0.39)	1.7	3/8″ Female NPT	22.22(7/8)	-	63.80(2.51)	-
	S-8T			1/2″ S-LOK		22.22(7/8)	80.20(3.16)	36.20(1.43)
	S-12M			12mm S-LOK		22.00		
	M-8N			1/2″ Male NPT		-	74.40(2.93)	
SCV4	F-8N	13.5 (0.53)	2.6	1/2″ Female NPT	28.58(1-1/8)	-	84.70(3.33)	-
	S-10T			5/8″ S-LOK		25.40(1)	91.80(3.61)	48.10(1.89)
SCV5	S-12T	16.0 (0.63)	5.2	3/4″ S-LOK	31.75(1-1/4)	28.58(1-1/8)	110.70(4.35)	67.00(2.64)
	M-12N			3/4″ Male NPT		-	105.30(4.15)	
	F-12N			3/4″ Female NPT		-	103.00(4.06)	-
SCV6	S-16T	18.0 (0.71)	8.0	1″ S-LOK	34.93(1-3/8)	38.1(1-1/2)	121.10(4.77)	68.40(2.69)
	M-16N			1″ Female NPT		-	116.20(4.57)	
	F-16N			1″ Male NPT	41.28(1-5/8)	-	111.40(4.39)	

· Spring Cracking, Reseal and Back Pressure at @70°F(21°C)

Spring Nominal Cracking Pressure		Cracking Pressure Ranges Min. Pressure		Max. Pressure		Reseal Pressure	
psig	bar	psig	bar	psig	bar	psig	bar
1/3	0.02	0	0	3	0.21	Up to 6	0.41
						back pressure	
1	0.07	0	0	4	0.28	Up to 5	0.34
						back pressure	
3	0.21	2	0.14	7	0.48	Up to 4	0.28
						back pressure	
10	0.69	7	0.48	15	1.03	3	0.21
25	1.72	20	1.38	30	2.07	17	1.17
50	3.45	40	2.76	60	4.14	35	2.41
75	5.17	60	4.14	90	6.2	53	3.65
100	6.89	80	5.51	120	8.27	70	4.82

· Pressure-Temperature Ratings

Ratings based on Viton O-ring in S316 stainless steel valves and NBR O-ring in brass valves.

Series	SCV1, SCV2, SCV3, SCV4 SCA1, SCA2, SCA3 SCP1, SCP2		SCV5, SCV6		S316 SCH Series	
Temperature °F(°C)	Working Pressure, psig (bar)					
	S316	Brass	S316	Brass	SCH1, SCH2	SCH3
-10°F to 100°F(-23°C to 37°C)	3000(206)	3000(206)	2000(137)	1500(103)	6000(413)	5000(344)
200°F(93°C)	2575(177)	2600(179)	1715(118)	1300(89)	5160(355)	4290(295)
250°F(121°C)	2450(168)	2405(165)	1630(112)	1250(86)	4910(338)	4080(281)
300°F(148°C)	2325(160)	-	1545(106)	-	4660(321)	3875(267)
375°F(190°C)	2185(150)	-	1450(99.9)	-	4375(301)	3640(250)
400°F(204°C)					4280(294)	3560(245)