

W e . s u p p o r t . t h e
i n n o v a t i o n s . o f . c u s t o m e r s

Leak - Proof Flow & Control Solution Partner

The Best Partner
for Value Creation

S-LOK® Check & Relief Valves

HanSun

한선엔지니어링(주)
HANSUN ENGINEERING CO., LTD.



Check Valves

SCV, SCP, SCA, SCH SERIES

SCV30
Series



3~4

SCP30
Series



5

SCA30
Series



6

SCH60
Series

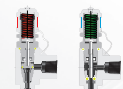


7~9

Relief Valves

SRV SERIES

SRV 30, 60
Series



10~11



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).
- Temperature rating up to 375°F (191°C) with Standard Viton 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) NBR : -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

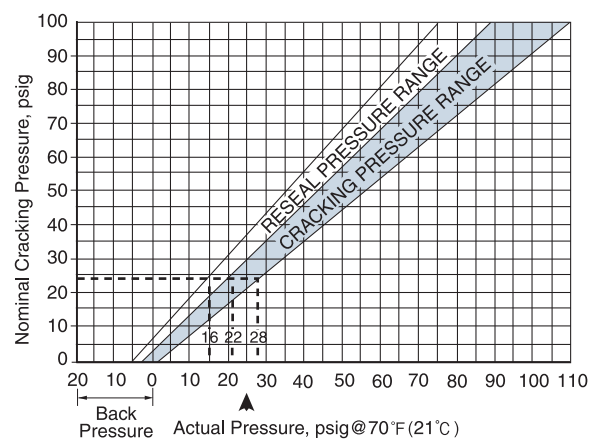
The upstream pressure at which a detectable flow is Measured. The Check valve is actuated when the pressure difference between the inlet and the outlet reaches the range of cracking pressure.

Reseal Pressure

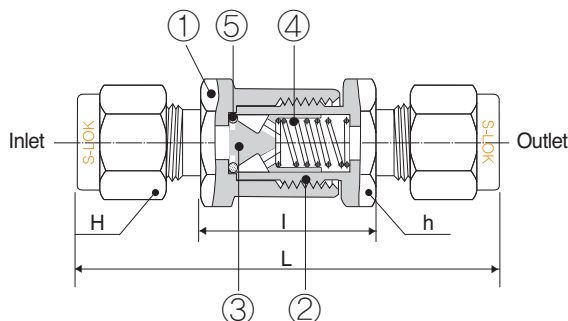
The downstream pressure at which the check valve closes bubble-tight. The Check valves that have higher cracking pressure can be resealed to bubble-tight by the spring force. The reseal pressure is the pressure at the same flow direction, but lower than the cracking pressure.

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		Brass
3	Poppet	S316/A479, A276	Brass
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	I
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)	-
	S-4T			1/4" S-LOK		14.29(9/16)	60.00(2.36)	25.00(0.98)
	S-6M			6mm S-LOK		14.00	60.00(2.36)	25.00(0.98)
	MS-4N4T			1/4" Male NPT 1/4" S-LOK		14.29(9/16)	56.40(2.22)	25.00(0.98)
	M-4N			1/4" Male NPT		-	53.40(2.10)	25.00(0.98)
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	65.50(2.58)	27.10(1.07)
	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	80.20(3.16)	36.20(1.43)
	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)	67.00(2.64)
	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" Male NPT		-	116.20(4.57)	68.40(2.69)
	F-16N			1" Female NPT		-	111.40(4.39)	68.40(2.69)

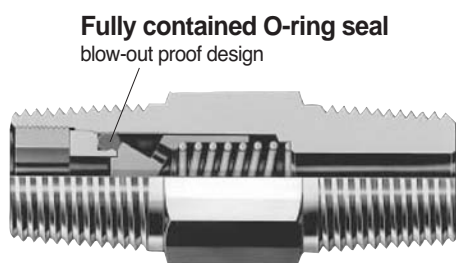
• Spring Cracking, Reseal and Back • Pressure-Temperature Ratings

Pressure at @70°F(21°C)

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

Spring Nominal Cracking Pressure		Cracking Pressure Ranges				Reseal Pressure		Series	SCV1, SCV2, SCV3, SCV4 SCA1, SCA2, SCA3 SCP1, SCP2	SCV5, SCV6	S316 SCH Series			
		Min. Pressure		Max. Pressure										
psig	bar	psig	bar	psig	bar	psig	bar	Temperature °F(°C)	Working Pressure, psig (bar)					
									S316	Brass	S316	Brass	SCH1, SCH2	SCH3
1/3	0.02	0	0	3	0.21	Up to 6 back pressure	0.41	-10°F to 100°F (-23°C to 37°C)	3000(206)	3000(206)	2000(137)	1500(103)	6000(413)	5000(344)
1	0.07	0	0	4	0.28	Up to 5 back pressure	0.34	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)
3	0.21	2	0.14	7	0.48	Up to 4 back pressure	0.28	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)
10	0.69	7	0.48	15	1.03	3	0.21	400°F (204°C)					4280(294)	3560(245)
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							

SCP30 Series For working pressure up to 3000 psig(206bar)



Fully contained O-ring seal
blow-out proof design

Compact, one-piece body



Features

- Pressure rating up to 3,000psig (206bar) @ 70°F (21°C).
- Temperature rating up to 375°F (191°C) with Standard Viton 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.

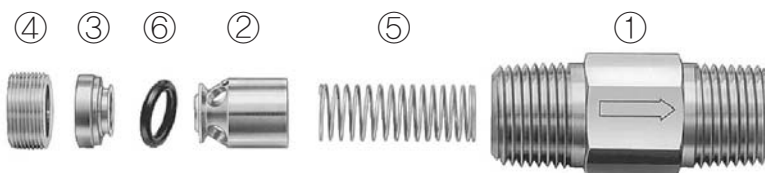
Technical Data -Spring Cracking, Reseal and Back Pressure @70°F(21°C).

Spring Nominal Cracking Pressure		Applied Working Pressures psig(bar)				Reseal Pressure	
		Min. Pressure		Max. 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	
10	0.69	7	0.48	15	1.03	3	0.21
25	1.72	20	1.38	30	2.07	17	1.17

Materials of Construction

Item	Description	Valve Body Materials	
		S316	Brass
1	Body	S316 /A276, A479	Brass
2	Poppet		
3	Insert		
4	Locking Screw		
5	Spring	S302/A313	
6	O-ring	Viton	NBR

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

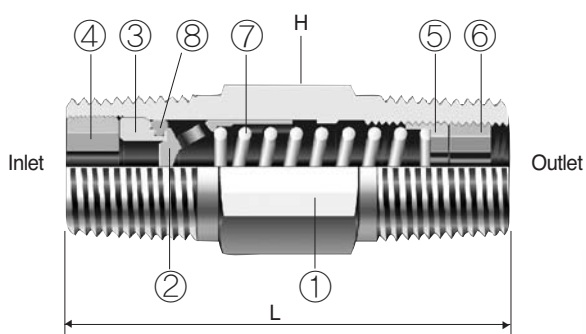


Ordering Information and Dimensions

Basic Ordering Number		Cv	End Connections			Dimensions mm(inch)	
			Size	Inlet	Outlet	L	H
SCP1	M-4N	0.35	1/4"	Male NPT		41.1(1.62)	14.28(9/16)
	M-4R		Male ISO				
	F-4N		Female NPT		61.2(2.41)	19.05(3/4)	
	F-4R		Female ISO		64.5(2.54)		
	MF-4N		Male / female NPT		44.4(1.75)		
	FM-4N		Female / male NPT		58.2(2.29)		
SCP2	M-8N	1.20	1/2"	Male NPT		57.9(2.28)	22.22(7/8)
	F-8N		Female NPT		94.2(3.71)	26.98(1-1/16)	
	MF-8N		Male / female NPT		71.9(2.83)		

All dimensions shown are for reference only and are subject to change.

SCA30 Series For working pressure up to 3000 psig(206bar)



Materials of Construction

Item	Description	Valve Body Materials	
		S316	Brass
1	Body	S316 /A276, A479	Brass
2	Poppet		
3	Insert		
4	Insert Lock Screw		
5	Adjusting Screw		
6	Locking Screw	S302/A313	NBR
7	Spring		
8	O-ring	Viton	NBR

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



Features

- Pressure rating up to 3,000psig (206bar) @ 70°F (21°C).
- Temperature rating up to 375°F (191°C) with Standard Viton O-ring.
- Choice of materials : Standard S316 and Brass.
- Cracking pressure adjustable from 3 to 600psi (0.2 to 41.4 bar)
- Heat code traceability.
- Every valve is 100% factory tested for cracking and reseal.

• Spring Cracking PressureRange Designator

Designator	Cracking Pressure	
	psi	bar
3	3 to 50	0.21 to 3.5
50	50 to 150	3.5 to 10.4
150	150 to 350	10.4 to 24.2
350	350 to 600	24.2 to 41.4

Ordering Information and Dimensions

Basic Ordering Number		Cv	End Connections			Dimensions mm(inch)	
			Size	Inlet	Outlet	L	H
SCA1	F-4N	0.35	1/4"	Female NPT		75.7(2.98)	3 / 4
	M-4N		1/4"	Male NPT		41.1(1.62)	9 / 16
	M-4R		1/4"	Male BSPT		41.1(1.62)	9 / 16
SCA2	M-8N	1.20	1/2"	Male NPT		65.0(2.56)	7 / 8
	M-8R		1/2"	Male BSPT		65.0(2.56)	7 / 8

To order, add a cracking pressure range designator to the basic ordering number and then specify valve material designator.

Example : SCA1-M-4N-3-S6

SCH60 Series For working pressure up to 6000 psig(413bar)

Poppet

Provides leak tight shut off with elastomer seal.

Springs

are available for the cracking pressure in the range from 1/3psi to 25psi.

Variety of end Connection

include S LOK tube fittings, male and female NPT, ISO threads.

Poppet Stopper

Provides minimizes spring stress.

Indicator Ring

is easy identify the cracking pressure. available in replacement.

O-ring and Back Up Rings

are halves for ensures closure to the rated pressure.

Features

- Pressure rating up to 6000psi (413bar) @70°F(21°C).
- Temperature rating up to 375°F(191°C)with standard Viton O-ring.
- S316 Stainless steel body as standard.
- Suitable for gas and liquids.
- Cracking pressures include : 1/3, 1, 5, 10, 25psi.
- Heat code traceability.
- Every valve is 100% factory tested for cracking and reseal.



Technical Data

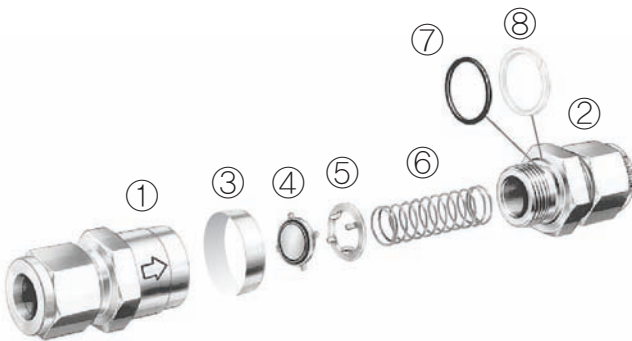
Description	S316		
Series	SCH1	SCH2	SCH3
Flow Coefficient (Cv)	0.67	1.8	4.7
Working Pressure and Back Pressure @ 70°F(21°C)	6000psi (413bar)		5000psi (344bar)
Operating Temperature Range	Viton : -10°F to 375°F (-23°C to 190°C)		
Nominal Cracking Pressure	1/3, 1, 5, 10, 25psig		

CNG / NGV Certifications

- CNG / NGV Check Valve Series with CNG / NGV Compatible HNBR O-ring are available with CNG / NGV Certifications

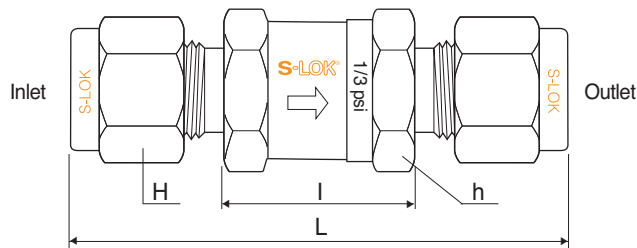
Certificates	ECE R110	ANSI NGV 3.1 - 2012	ISO 15500
Certificate No.	110R-010335	126842AUT16	126842MECH105
Classification	Class 0	Manual valve	Manual valve
Temperature	-40 to 120°C (-40 to 248°F)	-40 to 120°C (-40 to 248°F)	-40 to 120°C (-40 to 248°F)
Working Pressure	260 bar @ 120°C	248 bar @ 120°C	260 bar @ 120°C

Materials of Construction



Item	Description	A479Valve Body Materials	
		Material Grade	ASTM Speccification
1	Body	S316	A479 or A276
2	Connector		
3	Indicator Ring		
4	Poppet	Viton-bonded S316	
5	Poppet Stopper	S316	
6	Spring	S302	A313
7	O-ring	Viton	
8	Back Up Ring	PTFE	

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



Ordering Information and Dimensions

Basic Ordering Number	Orifice mm	Cv max.	End Connections			Pressure Rating psig(bar)	Dimensions mm(inch)			
			Size	Inlet	Outlet		L	I	H	h
SCH1	4.8	0.67	1/8"	S-LOK		6000(413)	57.7(2.27)	26.4(1.04)	(7/16)	(11/16)
			1/4"	S-LOK			61.7(2.43)		(9/16)	
			6mm	S-LOK					14.0	
			1/4"	Female NPT			54.1(2.13)	26.4(1.04)		
			1/8"	Male NPT			45.5(1.79)			
			1/4"	Male NPT			55.1(2.17)			
SCH2	7.8	1.8	3/8"	S-LOK		6000(413)	69.9(2.75)	31.2(1.23)	(11/16)	(1)
			1/2"	S-LOK			75.2(2.96)		(7/8)	
			8mm	S-LOK			68.6(2.70)		16	
			10mm	S-LOK			71.1(2.80)		19	
			12mm	S-LOK			75.2(2.96)		22	
			3/8"	Female NPT		5000(344)	64.8(2.55)	31.2(1.23)		(1-1/16)
			1/2"	Female NPT		4600(316)	77.0(3.03)			
			3/8"	Male NPT		6000(413)	59.9(2.36)			
			1/2"	Male NPT			69.3(2.73)			
			1/2"	Female ISO		4600(316)	83.6(3.29)			
			1/2"	Male ISO		6000(413)	69.3(2.73)	31.2(1.23)		(1)
SCH3	15.0	4.7	3/4"	S-LOK		5000(344)	89.4(3.52)	45.2(1.78)	(1-1/8)	(1-5/8)
			1"	S-LOK			98.6(3.88)		(1-1/2)	
			22mm	S-LOK			88.4(3.48)	45.5(1.79)	32	
			25mm	S-LOK			98.6(3.88)		40	
			3/4"	Female NPT		4300(296)	82.0(3.23)	82.0(3.23)		
			1"	Female NPT		4100(282)	97.3(3.83)			
			3/4"	Male NPT		5000(344)	83.6(3.29)	45.5(1.79)		
			1"	Male NPT			93.2(3.67)			
			3/4"	Female ISO		4300(296)	90.2(3.55)	90.2(3.55)		
			1"	Female ISO		4100(282)	97.3(3.83)			
			3/4"	Male ISO		5000(344)	85.1(3.35)	45.5(1.79)		
			1"	Male ISO			93.2(3.67)			

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

Nominal Spring Cracking Pressure		Applied Working Pressures - psig(bar)				Reseal Pressure	
		Min. Pressure		Max. Pressure			
psi	bar	psi	bar	psi	bar	psi	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	
5	0.34	3	0.21	9	0.62	up to 2	0.14
						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

O-Ring Seal Materials

Material	Designator	Temperature Rating°C(°F)	Application
NBR	NB	-20°C to 105°C (-4°F to 221°F)	Petroleum-based hydraulic and lubricating oils, animals and vegetable oils, acetylene, alcohols, air, alkalis, fuel oils and many other media.
FKM (Viton)	VT	-23°C to 190°C (-10°F to 375°F)	High-quality compounds for high temperatures, Synthetic and hydraulic fluids; a wide range of chemicals, heavily oxidizing acids, suitable for vacuum.
EPDM	EP	-45°C to 148°C (-50°F to 300°F)	Chemical resistance : nonflammable hydraulic fluids (Skydrol, Pydraul, Lindol, Cellulube 150, phosphoric esters), pure aniline, fire extinguisher liquids (chlorobromo-methane), acid ; excellent resistance to hot water and steam.
FFKM (*Kalrez)	KA	-23°C to 315°C (-10°F to 599°F)	Superior compounds for high temperature and most chemicals. This compound combines the chemical properties of PTFE with the mechanical properties of Viton.

Viton is standard for S316 valves and NBR is standard for Brass valves.

*Kalrez : TM Dupont

• Sour Gas Service

-for sour gas application, materials for wetted components are selected according to NACE MR 0175.

Pressure Rating at 70°F(21°C)	SCH1 and SCH2 Series : 5000psig(344bar) SCH3 Series : 4700psig(323bar)
Temperature Rating	-50°F to 300°F (-45°C to 148°C)
Normal Cracking Pressure	1/3, 1, and 5psig(0.02, 0.07, 0.34bar)
End Connections	1/4, 3/8, 1/2, 3/4, and 1" S-LOK Tube Fittings
Material of Construction	Body, Poppet-Alloy 400 Poppet stopper-S316 Seals-ethylene propylene Spring-Alloy X750 Back up ring-PTFE Indicator ring-stainless steel

To order, add designator-SG as a suffix to the basic part number with cracking pressure.

Example : SCH1-S-4T-1/3-SG-S6

• Fluorocarbon-Free Service

-for system where, PTFE and fluorinated compounds can not be tolerated.

Pressure Rating at 70°F(21°C)	Same as standard product. See standard technical data.
Temperature Rating	-50°F to 300°F (-45°C to 148°C)
Normal Cracking Pressure	Same as standard product. See standard technical data
End Connections	All end connection type and sizes. See table of dimensions.
Material of Construction	Body, Poppet, Poppet stopper-S316 Seals-ethylene propylene Spring-S302 Back up ring-PEEK Indicator Ring-stainless steel Lubricant-hydrocarbon based

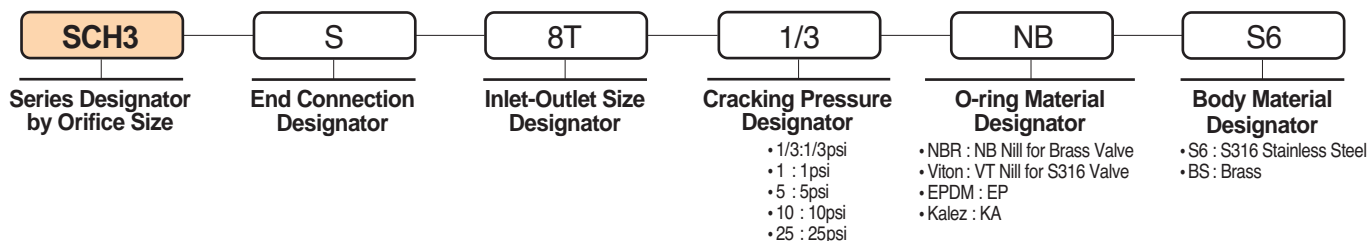
To order, add designator-FF as a suffix to the basic part number with cracking pressure.

Example : SCH1-S-4T-1/3-FF-S6

• Testing

-Every valve is factory tested for cracking and reseal performance.

• Ordering Information



※ CNG / NGV Service

• To order CNG / NGV Service, insert the designator "C" to the valve ordering number.

• O-Ring Material's HNBR standard.

ex) SCH**C**3 S 8T S6

• Safety in Valve Selection

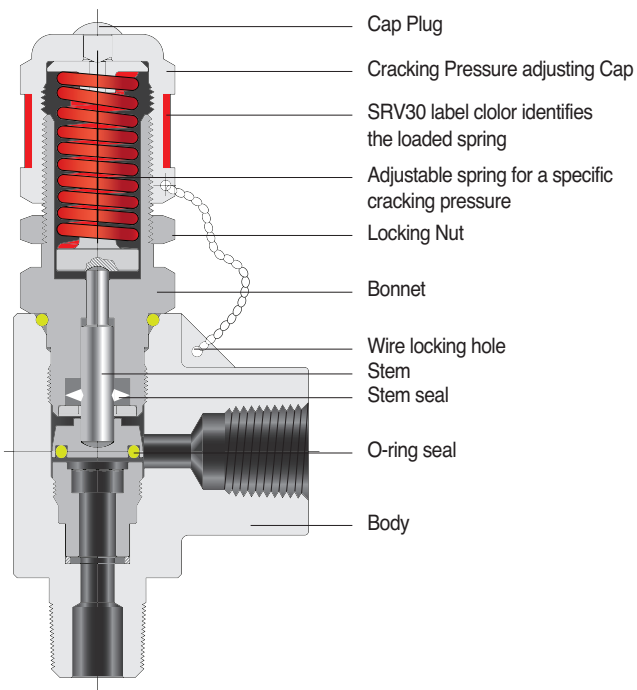
-When selecting a valve, the total system design must be considered to ensure safe, trouble-free performance.

Valve function, materials compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibility of the system designer and user.

SRV Series Relief Valves

Product Information

Relief Valve SRV30 Series for 300 psig(21 bar)



SRV Series Temperature Rating

Seal Material	Temperature Rating °C (°F)
FKM (Standard)	-28 ~ 204 (-20 ~ 400)
NBR	-20 ~ 105 (-68 ~ 221)
EPDM	-45 ~ 135 (-49 ~ 275)

SRV30 Series Technical Data

- Maximum working pressure : 300 psig (21 bar)
- Cracking pressure range : 10 to 250 psig (0.68 to 17.2 bar)

Spring Designator	Cracking Pressure		Color code
	psig	bar	
L	10 to 250	0.68 to 17.2	Red

- Cv= 0.60
- Orifice : 4.8 mm (0.19 in)

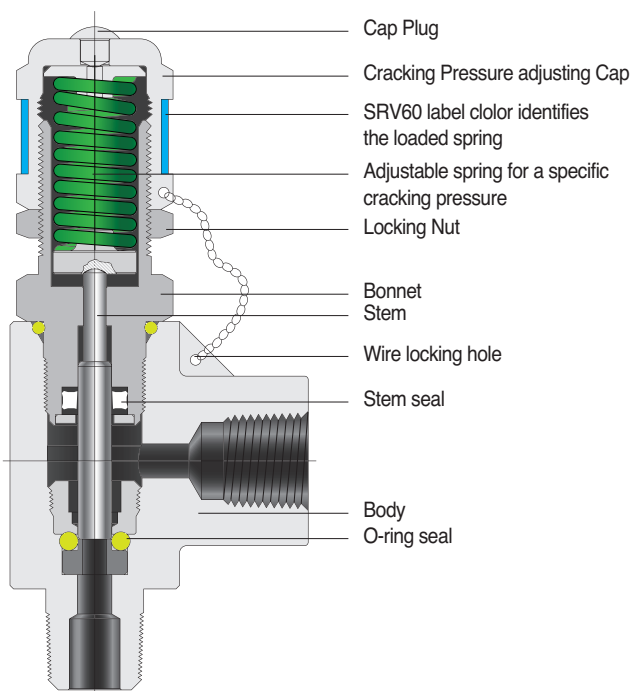
SRV60 Series Technical Data

- Maximum working pressure : 6,000 psig (413 bar)
- Orifice size : 3.4 mm (0.13 in)
- Cv= 0.41
- Cracking pressure range : 50 to 6000 psig (3.4 to 413 bar)

SRV60 Series Spring Designators

Spring Designator	Cracking Pressure		Color code
	psig	bar	
A	50 to 350	3.4 to 24	White
B	350 to 750	24 to 51.6	Blue
C	750 to 1500	51.6 to 103	Clear
D	1,500 to 2,250	103 to 155	Black
E	2,250 to 3,000	155 to 206	Green
F	3,000 to 4,000	206 to 275	Yellow
G	4,000 to 5,000	275 to 344	Brown
H	5,000 to 6,000	344 to 413	Orange

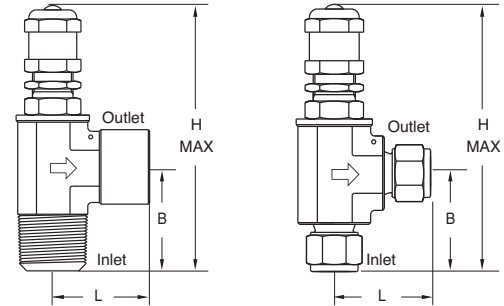
Relief Valve SRV60 Series for 6,000 psig(413 bar)



Product Information

Materials of Construction

Cap Plug	Polypropylene
Adjusting Cap	S316 / ASTM A276 or A479
Spring	17-4 PH SS / AMS 5678 D
Locking Nut	S316 ASTM A276 or A479
Bonnet	
Poppet	
Stem & O-ring seal	Standard Viton, optional EPDM and NBR
Body	F316 / ASTM A182



Ordering Information and Table of Dimensions

Basic Ordering NO.		End Connection		Orifice mm.(in)	Dimensions mm (in.)			
		Inlet	Outlet		H	B	L	
SRV30 and SRV60	S-4T	1/4 S-LOK		(SRV30) 4.8 (0.19)	100 (3.93)	37 (1.45)	39 (1.53)	
	S-6M	6mm S-LOK				38 (1.49)	40 (1.57)	
	S-8M	8mm S-LOK			105 (4.13)	44 (1.73)	42 (1.65)	
	S-8T	1/2 S-LOK				98 (3.85)	36 (1.41)	42 (1.65)
	S-12M	12mm S-LOK					(SRV60) 3.4 (0.13)	94 (3.70)
	MS-8N8T	1/2 Male NPT	1/2 S-LOK	35 (1.37)				
	MS-8N12M	1/2 Male NPT	12mm S-LOK		98 (3.85)	36 (1.41)		38 (1.49)
	MF-4N	1/4 Male NPT	1/4 Female NPT					
	MF-4R	1/4 Male ISO 7/1	1/4 Female ISO7/1					
	MF-6N	3/8 Male NPT	3/8 Female NPT					
	MF-6R	3/8 Male ISO 7/1	3/8 Female ISO7/1					
	MF-8N	1/2 Male NPT	1/2 Female NPT					
MF-8R	1/2 Male ISO 7/1	1/2 Female ISO7/1						

All dimensions shown are for reference only and are subject to change. Dimensions with S-lok nuts are in finger-tighten position.

Ordering Information

Please select the desired valves basic ordering number, spring designator, the applicable seal and body material options from the table below.
Example : SRV60-S-4T-A-NBR-S6

Spring Designator	Seal Material designator	Body Material
Refer to spring Designator table1, 2	NIL : standard FKM	S6:S316
	NBR : NBR	
	EP : EPDM	

Factory pressure set valve

•To order, specify the set pressure in the valve ordering number

Example : SRV60-S-4T-C-EP-S6

Valve without spring installed

•To order, do not specify spring designator on the ordering number

Example : SRV60-S-8T-NBR-S6

NOTE : the valve with no spring installed with the label stated
"NO SPRING INSTALLED" on the adjusting cap

Safe Valve Selection

The selection of a valve for any application to system design must be considered to ensure performance. Valve function, valve rating material compatibility, proper installation, operation and maintenance remain the sole responsibility of the system designer and the user, S-LOK accepts no liability for any selection, installation, operation or maintenance.



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