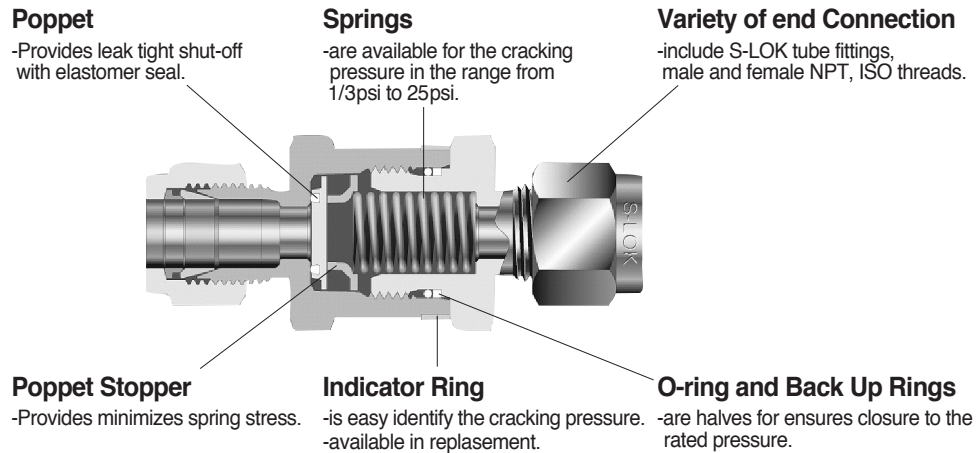


SCH60 Series For working pressure up to 6000 psig(413bar)



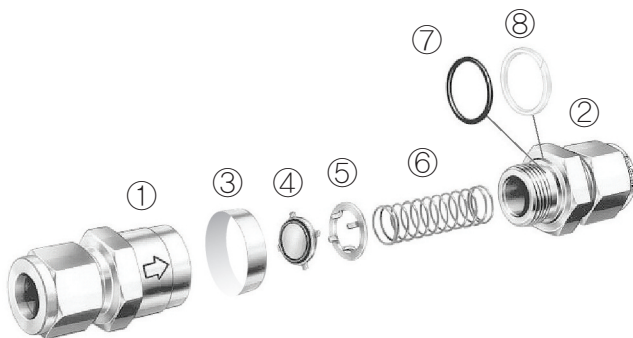
Features

- 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, 3, 10, 25, 50psi.
- Heat code traceability.
- Every valve is 100% factory tested for cracking and reseal.

Technical Data

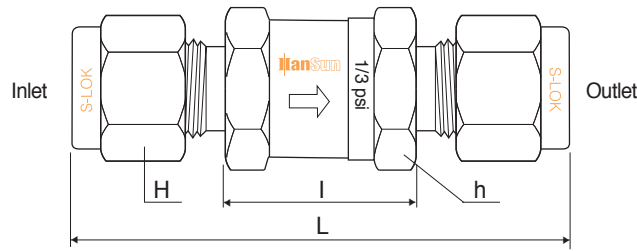
Description	S316		
	SCH1	SCH2	SCH3
Series	SCH1	SCH2	SCH3
Flow Coefficient (Cv)	0.67	1.8	4.7
Working Pressure and Back Pressure @ 70°F(21°C) 70°F(21°C)	6000psi (413bar)		5000psi (344bar)
Operating Temperature Range	Viton : -10°F to 375°F (-23°C to 190°C)		
Nominal Cracking Pressure	1/3, 1, 5, 10, 25psig		

Materials of Construction



Item	Description	A479Valve Body Materials	
		Material Grade	ASTM Specification
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			54.1(2.13)		14.0	
			1/4"	Female NPT			45.5(1.79)	26.4(1.04)		
			1/8"	Male NPT			55.1(2.17)			
			1/4"	Male NPT						
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	
			F-6N	Female NPT		5000(344)	64.8(2.55)			
			F-8N	Female NPT		4600(316)	77.0(3.03)		1-1/16	
			M-6N	Male NPT		6000(413)	59.9(2.36)	31.2(1.23)		1
			M-8N	Male NPT			69.3(2.73)			
			F-8R	Female ISO		4600(316)	83.6(3.29)			1-1/16
			M-8R	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)
1"	S-LOK					98.6(3.88)	1-1/2			
22mm	S-LOK					88.4(3.48)	32			
25mm	S-LOK					98.6(3.88)	40			
F-12N	Female NPT					4300(296)	82.0(3.23)	82.0(3.23)		
F-16N	Female NPT					4100(282)	97.3(3.83)	97.3(3.83)		
M-12N	Male NPT					5000(344)	83.6(3.29)	45.5(1.79)		
M-16N	Male NPT						93.2(3.67)	45.7(1.80)		
F-12R	Female ISO					4300(296)	90.2(3.55)	90.2(3.55)		
F-16R	Female ISO					4100(282)	97.3(3.83)	97.3(3.83)		
M-12R	Male ISO					5000(344)	85.1(3.35)	45.5(1.79)		
M-16R	Male ISO						93.2(3.67)	45.7(1.80)		

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.
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.
*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

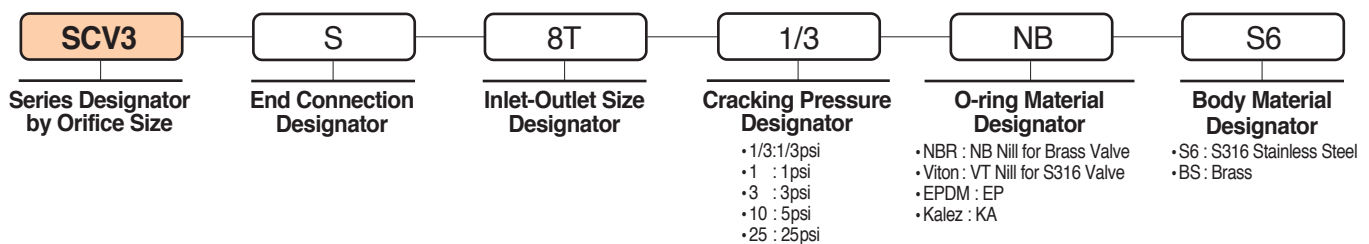
To order, add designator-FF as a suffix to the basic part number with cracking pressure.

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

• Testing

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

• Ordering Information



• 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.