

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

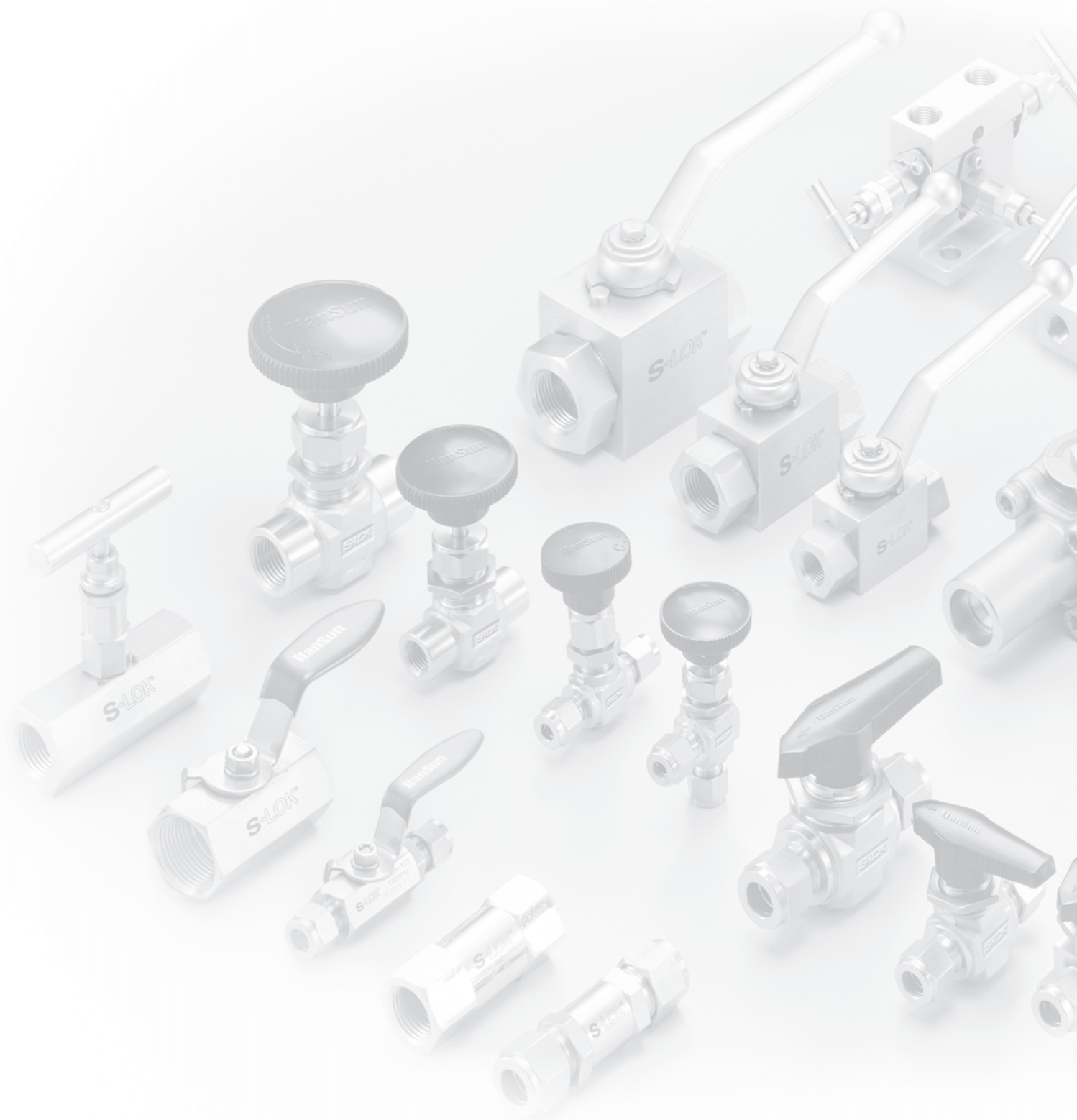
The Best Partner  
for Value Creation

**S-LOK<sup>®</sup>** Filters

**HanSun**

한선엔지니어링(주)  
HANSUN ENGINEERING CO., LTD.

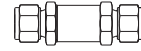




# Filters

## SFI SERIES

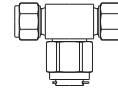
**SFI**  
Series



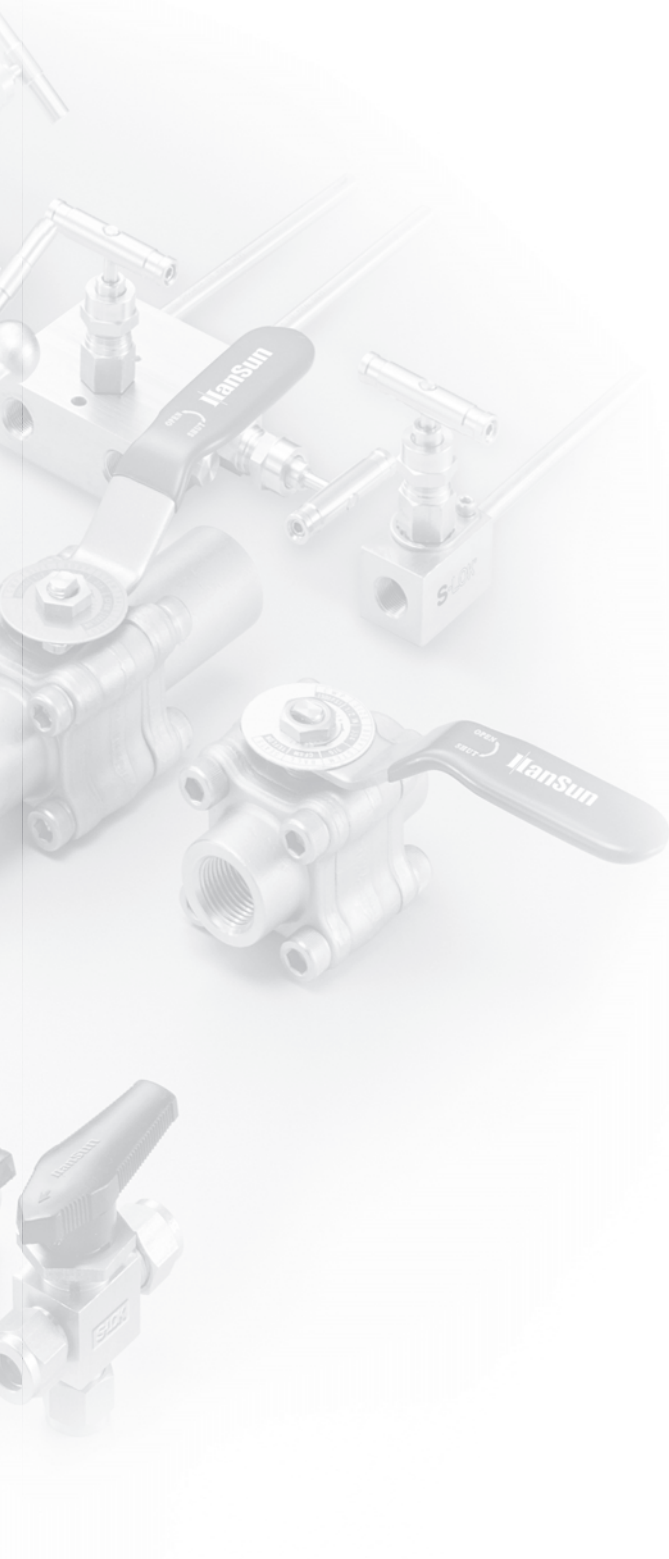
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## SFT SERIES

**SFT**  
Series



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## Product Information

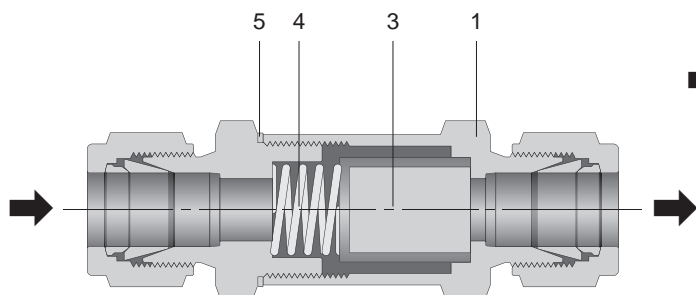
### SFI30 In-Line Filters, SFT60 Tee Filters

#### Features

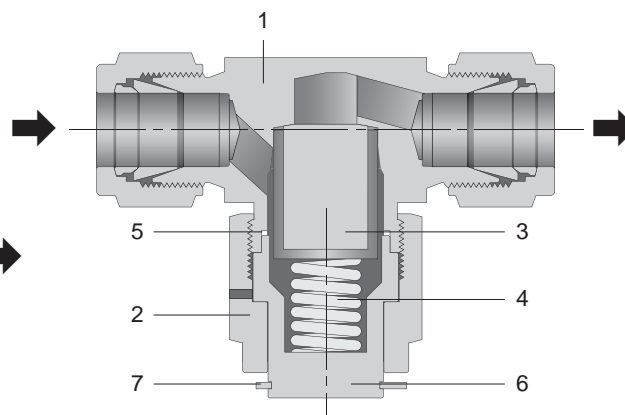
- Trapping fine contamination to maintain system purity
- Gas and liquid filtration
- Standard micron filtering ranges : 0.5, 2, 7, 15, 60 and 90 microns
- Replaceable S316 sintered elements
- S316 and Brass body construction
- Choice of reliable S-Lok, NPT & ISO pipe end connections
- Heat Code Traceability



SFI30 IN-Line Filters	SFT60 Tee Filters
<ul style="list-style-type: none"> <li>• In-line filters are applicable where space is limited and elements don't have to be replaced often.</li> <li>• Compact in-line design with large filtration area</li> <li>• Maximum working pressure 3,000 psig @100°F (206 bar @38°C )</li> </ul>	<ul style="list-style-type: none"> <li>• Filter Element replaceable with the valve in-line.</li> <li>• Safety union bonnet design for high pressure rating</li> <li>• Optional Bypass for sampling or purging of process fluid.</li> <li>• Maximum working pressure 6,000 psig@100°F (413 bar @38°C )</li> </ul>



SFI30 In-Line Filters



SFT60 Tee Filters

#### Materials of Construction

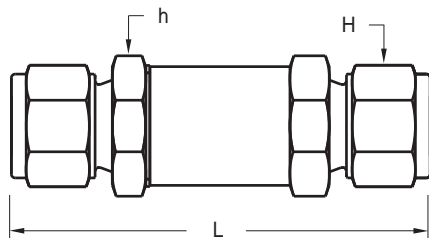
Component	SFI30		SFT60	
	Grade/ASTM/Specification			
1 Body	S316/A276	Brass/B16	S316/A276	Brass/B16
2 Nut	-	-	S316/A276	Brass/B16
3 Sintered Element	S316			
4 Spring	S302			
5 Gasket	S316/A240 silver plated			
6 Cap	-	-	S316/A276	Brass/B16
7 Retainer Ring	-	-	Stainless Steel	

#### Filtration & Terminology

- Filter Element : The component within the Filter which traps media contamination.
- Filtration Area : The actual surface area of the filter element available to trap contamination.
- Micron : A unit of measure to describe the mean pore diameter of the filter element or the mean particle diameter of media contamination. One micron = 0.001mm or 0.00004 inch

## Product Information

### SFI Series In-Line Filter



Basic Ordering Number	End Connections Inlet and Outlet	Orifice inch (mm)	Dimensions mm (in.)		
			L	H	h
SFI1	S-2T- 1/8 in. S-LOK	0.09 (2.4)	59.7(2.35)	7/16	9/16
	F-2N- 1/8 in. Female NPT		54.9(2.16)	-	
	S-3M- 3mm S-LOK		60.5(2.38)	12 mm	
SFI2	S-4T- 1/4 in. S-LOK	0.19 (4.7)	74.9(2.95)	9/16	3/4
	M-4N- 1/4 in. Male NPT		68.3(2.69)	-	
	F-4N- 1/4 in. Female NPT		72.9(2.87)	-	
S-6M- 6mm S-LOK	75.2(2.96)	14mm			
SFI3	M-8N- 1/2 in. Male NPT	0.28 (7.1)	81.3(3.20)	1-1/16	1
	S-6T- 3/8 in. S-LOK		81.5(3.21)		
SFI4	S-8T- 1/2 in. S-LOK	0.41 (10.3)	88.6(3.49)	7/8	1

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

Dimensions with S-Lok nuts are in finger-tight position.

### Flow Capacities

Filter Series	Nominal Pore Micron	P		
		20 psig	60 psig	120 psig
Water GPM @ 70°F (21°C)				
SFI1 Series	05	0.01	0.44	0.13
	2	0.11	0.26	0.14
	7	0.14	0.33	0.53
	15	0.17	0.39	0.64
	60	0.21	0.55	0.77
	90	0.28	0.55	0.66
SFI2 Series	05	0.06	0.19	0.32
	2	0.34	0.94	1.42
	7	0.57	1.42	2.19
	15	0.71	1.42	2.30
	60	1.27	3.61	5.04
	90	1.70	4.60	6.68
SFI3 Series	05	0.13	0.44	0.83
	2	0.37	1.20	1.75
SFI4 Series	7	0.91	2.41	3.83
	15	1.19	2.85	4.49
	60	2.83	7.34	10.95
	90	3.25	8.32	12.05

### Technical Information of Sintered Elements

- Stainless steel 316 sintered
- High heat resistance and thermal stability up to 1,500°F ( 815°C).
- High permeability with low-pressure drop.
- Shape-stability with self-supporting structural elements.
- Suitable for compression, vibration, and high impulse pressure.
- Precise filtration due to the exact and uniform pore size and distribution.
- Chemical resistance against acids and caustic solutions in various ranges of pH.

Element Designator	Nominal Pore Size, $\mu\text{m}$	Pore Size Range, $\mu\text{m}$	Element Porosity	Cv Factor	Max. Pressure Differential Across Clean Filters at 70°F (21°C )  1160 psig (80 bar)
05	0.5	0.5-2	17%	0.046	
2	2	1-4	22%	0.056	
7	7	5-10	27%	0.12	
15	15	11-25	36%	0.13	
60	60	50-75	44%	0.38	
90	90	75-110	45%	0.50	

### Element Replacement

- The sintered elements don't permit the contaminants in the gas and liquid to pass through the elements when they are bigger than the pore size of micron.
- Contaminants are trapped by element pores and it results in pressure buildup.
- Contamination comes earlier when flow volume is high and media is not clean.
- The filtering elements need to be replaced for the pressure drop as well as its system purity.

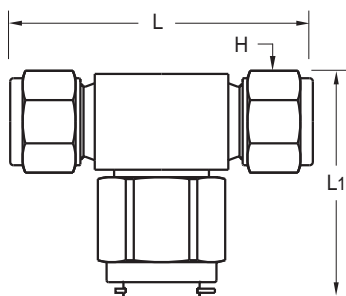
Note: Clean filter valve components whenever the element is replaced.

## Product Information

### Technical Information

Filter Series	Pressure Rating @100 °F(38 °C) psig (bar)		Temperature Rating °F(°C)		Filtration Area with Sintered Element inch <sup>2</sup> (mm <sup>2</sup> )
	Body Material	S316	Brass	S316	
SF11	3,000(206)	3,000(206)	-20 to 900 (-28 to 482)	-20 to 300 (-28 to 148)	0.55(350)
SF12					1.30(830)
SF13,SF14	2,500(172)	2,000(137)			1.98(1280)

### SFT Series Tee Filters



### Ordering Information and Dimensions

Basic Ordering Number	End Connections Inlet and Outlet	Orifice inch (mm)	Dimensions.mm (in.)		
			L	L1	H
SFT1	F-2N 1/8 in. Female NPT	0.17 (4.4)	50.8(2.00)	47.5 (1.87)	-
	S-2T 1/8 in. S-LOK		27.7(2.27)		7/16
	S-4T 1/4 S-LOK		62.7(2.47)		9/16
	M-4N 1/4 Male NPT		54.1(2.13)		-
	F-4N 1/4 Female NPT		54.1(2.13)		-
	S-6M 6mm S-LOK		62.5(2.46)		14mm
SFT2	S-6T 3/8 S-LOK	0.21 (5.4)	72.1(2.84)	56 (2.20)	11/16
	S-8M 8mm S-LOK	72.1(2.84)	16mm		
SFT3	M-6N 3/8 Male NPT	0.25 (6.4)	60.5(2.38)	56 (2.20)	-
	S-10M 10mm S-LOK		72.6(2.86)		19mm
	S-12M 12mm s-lok		77.2(3.04)		22mm
	S-8T 1/2 S-LOK		77.2(3.04)		7/8
	M-8N 1/2in. Male NPT		68.9(2.75)		-

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

Dimensions with S-Lok nuts are in finger-tight position.

### Technical Information

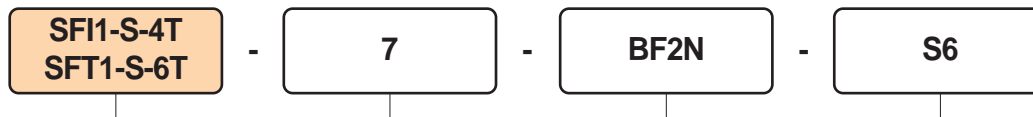
Filter Series	Pressure Rating @100 °F(38 °C) psig (bar)		Temperature Rating °F(°C)		Filtration Area with Sintered Element inch <sup>2</sup> (mm <sup>2</sup> )
	Valve Material	S316	Brass	S316	
SFT1,SFT2	6,000(413)	2,000(137)	-20 to 900 (-28 to 482)	-20 to 300 (-28 to 148)	1.3(830)
SFT3	6,000(413)	2,000(137)	-20 to 900 (-28 to 482)	-20 to 300 (-28 to 148)	1.98(1280)

### Flow Capacities

Filter Series	Nominal Pore Micron	P		
		20 psig	60 psig	120 psig
Water GPM @ 70°F (21°C)				
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	7	0.14	0.33	0.53
	15	0.17	0.39	0.64
	60	0.21	0.55	0.77
SFT1-S-2T	90	0.28	0.55	0.66
	05	0.06	0.19	0.32
SFT1-S-4T	2	0.34	0.94	1.42
	7	0.57	1.42	2.19
SFT1-M-4N	15	0.71	1.42	2.30
	60	1.27	3.61	5.04
SFT1-F-4N	90	1.70	4.60	6.68
	05	0.13	0.44	0.83
SFT1-S-6M	2	0.37	1.20	1.75
	7	0.91	2.41	3.83
SFT2 Series	15	1.19	2.85	4.49
SFT3 Series	60	2.83	7.34	10.95
	90	3.25	8.32	12.05

## Ordering Information

- Select desired basic ordering number, element designator, option and body material listed below.



Series Designator	Sintered Element		By-pass	Body Material
Basic Ordering Number	Element Designator	Nominal Micron	<ul style="list-style-type: none"> <li>Nil: No By-pass option</li> <li>BF2N: 1/8 in. Female NPT</li> <li>BF4N: 1/4 in. Female NPT</li> </ul>	<ul style="list-style-type: none"> <li>S6 : S316</li> <li>BS : Brass</li> </ul>
	05	0.5		
	2	2		
	7	7		
	15	15		
	60	60		
	90	90		
	NE	Filter with no element		

## SFT Series Tee Filter CNG / NGV Certifications

Certificates	ECE R110	ANSI NGV 3.1 - 2012	ISO 15500
Certificate No.	110R-010334	126841AUT15	126841MECH104
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



SFT, SFI



27 Noksansandan361-ro, Gangseo-gu  
(Songjeong-dong), Busan, Korea

Tel : +82-51-899-6700, Fax : +82-51-899-6799

E-Mail : [overseas@ehansun.co.kr](mailto:overseas@ehansun.co.kr)

[sales@ehansun.co.kr](mailto:sales@ehansun.co.kr)

Website : [www.ehansun.co.kr](http://www.ehansun.co.kr), [www.slok.co.kr](http://www.slok.co.kr)