

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

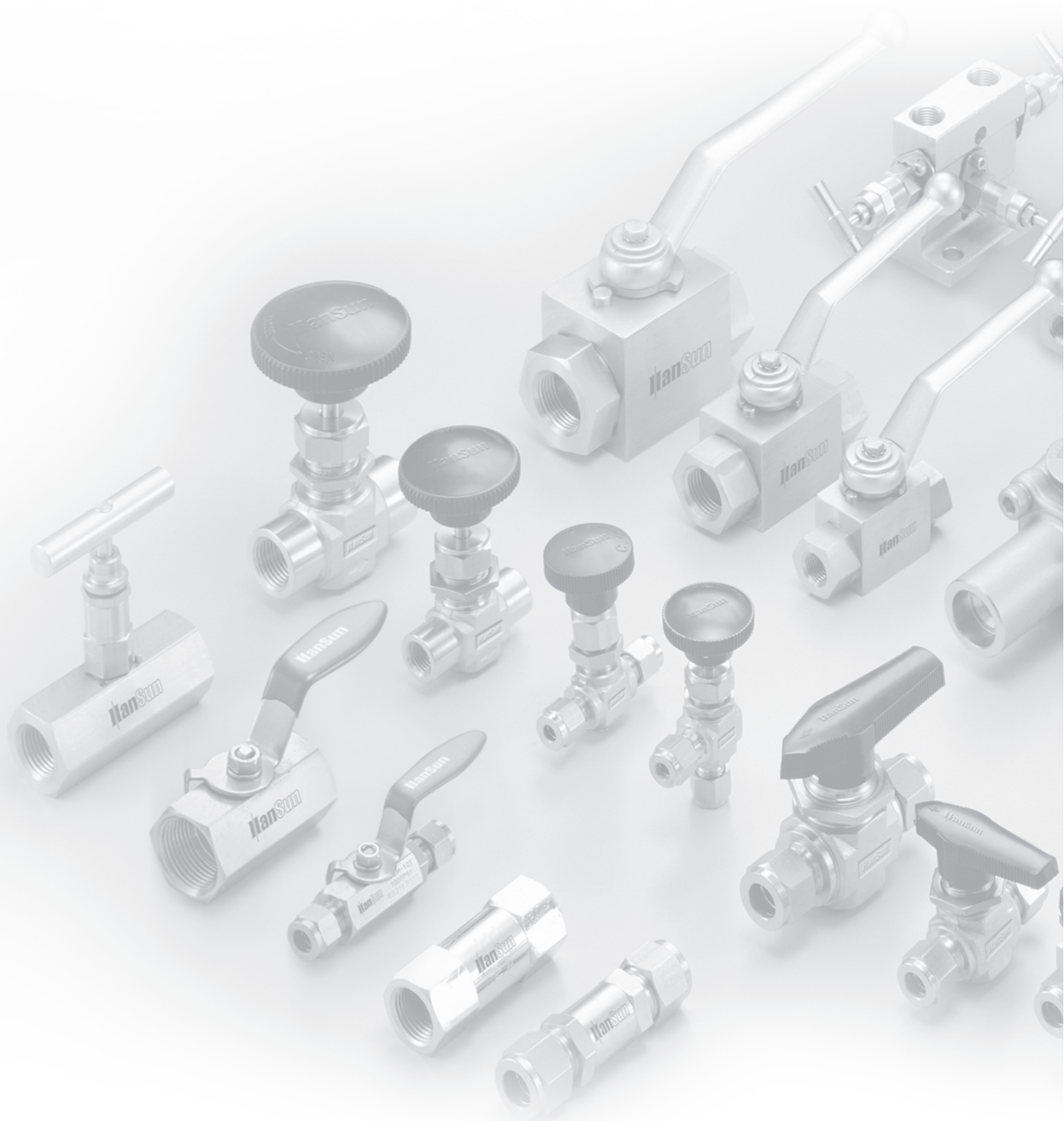
The Best Partner
for Value Creation

S-LOK® Filters

HanSun

한선엔지니어링(주)
HANSUN ENGINEERING CO., LTD.

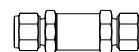




Filters

SFI SERIES

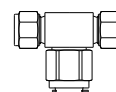
SFI
Series



5

SFT SERIES

SFT
Series



6

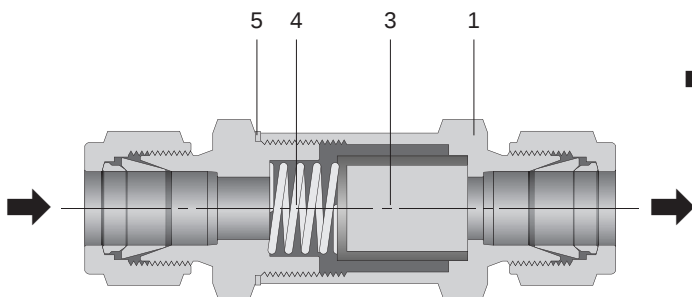
Product Information

SFI30 In-Line Filters, SFT60 Tee Filters

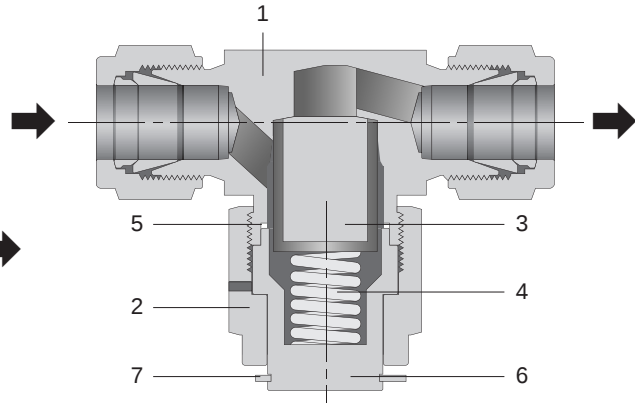
Features

- 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
• In-line filters are applicable where space is limited and elements don't have to be replaced often. • Compact in-line design with large filtration area • Maximum working pressure 3,000 psig @100°F (206 bar @38°C)	• Filter Element replaceable with the valve in-line. • Safety union bonnet design for high pressure rating • Optional Bypass for sampling or purging of process fluid. • Maximum working pressure 6,000 psig@100°F (413 bar @38°C)



SFI30 In-Line Filters



SFT60 Tee Filters

Materials of Construction

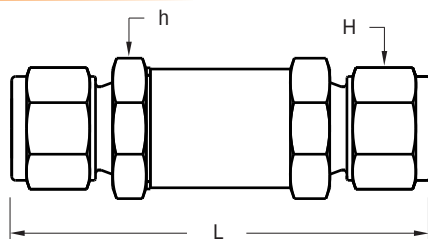
Component		SFI30		SFT60	
		Grade/ASTM/Specification			
1	Body	S316/A276	Brass/B16	S316/A276	Brass/B16
2	Nut	-	-	S316/A276	Brass/B16
3	Sintered Element	S316			
4	Spring	S302			
5	Gasket	S316/A240 silver plated			
6	Cap	-	-	S316/A276	Brass/B16
7	Retainer Ring	-	-	Stainless Steel	

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
SFI2 Series	90	0.28	0.55	0.66
	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
SFI3 Series	60	1.27	3.61	5.04
	90	1.70	4.60	6.68
	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
SFI4 Series	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, μm	Pore Size Range, μm	Element Porosity	Cv Factor	Max. Pressure Differential Across Clean Filters at 70°C (21°F)
05	0.5	0.5-2	17%	0.046	1160 psig (80 bar)
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.

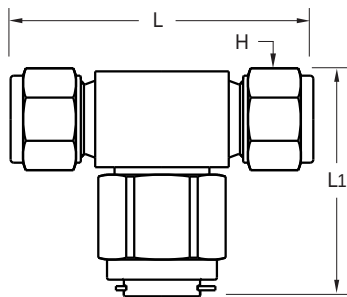
Note: Clean filter valve components whenever the element is replaced.

Product Information

Technical Information

Filter Series	Pressure Rating @100 °F(38 °C) psig (bar)		Temperature Rating °F(°C)		Filtration Area with Sintered Element inch ² (mm ²)
Body Material	S316	Brass	S316	Brass	
SFI1	3,000(206)	3,000(206)	-20 to 900 (-28 to 482)	-20 to 300 (-28 to 148)	0.55(350)
SFI2					1.30(830)
SFI3,SFI4	2,500(172)	2,000(137)			2.0(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 ² (mm ²)
Valve Material	S316	Brass	S316	Brass	
SFT1,SFT2	6,000(413)	2,000(137)	-20 to 900	-20 to 300	1.3(830)
SFT3	6,000(413)	2,000(137)	-20 to 900	-20 to 300	2.0(1280)

Flow Capacities

Filter Series	Nominal Pore Micron	P		
		20 psig	60 psig	120 psig
		Water GPM @ 70°F (21°C)		
SFT1-F-2N SFT1-S-2T	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
SFT1-S-4T SFT1-M-4N SFT1-F-4N	90	0.28	0.55	0.66
	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
SFT1-S-6M SFT2-S-6T SFT2 Series SFT3 Series	90	1.70	4.60	6.68
	05	0.13	0.44	0.83
	2	0.37	1.20	1.75
	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

Ordering Information

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

SFI1-S-4T
SFT1-S-6T

7
7

-NE

-BF2N

-S6
-BS

Series Designator	Sintered Element		Filter with no element	By-pass	Body Material
Basic Ordering Number	Element Designator	Nominal Micron	• NE: Filter with no element	- Nil: No By-pass option - BF2N: 1/8 in. Female NPT - BF4N: 1/4 in. Female NPT	- S6 : S316 - BS : Brass
	05	0.5			
	2	2			
	7	7			
	15	15			
	60	60			
	90	90			



SFT, SFI



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