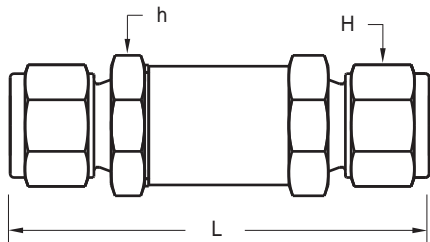


# Product Information

## 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.

## 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.

## 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	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
SFI3 Series	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
SFI4 Series	90	3.25	8.32	12.05

# Product Information

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## Technical Information

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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> )
	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)			1.98(1280)