

Micron Inline Filter



SIF Series

FEATURES

- Remove system particulate contaminants.
- Inline filters are for use where space is limited.
- Replaceable filter element.
- Maximum operating pressure : 3000 psi @ 70 °F (21 °C)
- Operating temperature range : -20 °F to 900 °F (-28 °C to 482 °C) with SS316 body
- 1/8 to 1/2 in. and 3 to 10mm end connections.



Technical Data

Temperature and Pressure Rating

Filter Series	SIF1 & SIF2	SIF3 & SIF4
Material	SS 316	
Temperature °F(°C)	Working pressure psig(bar)	
-20(-28) to 100(37)	3000(206)	2500(172)
200(93)	2580(177)	2150(148)
300(148)	2330(160)	1940(133)
400(204)	2140(147)	1780(122)
500(260)	1990(137)	1660(114)
600(315)	1880(129)	1560(107)
650(343)	1845(127)	1540(106)
700(371)	1800(124)	1500(103)
750(398)	1760(121)	1460(100)
800(426)	1725(118)	1440(99.2)
850(454)	1690(116)	1410(97.1)
900(482)	1640(112)	1360(93.7)

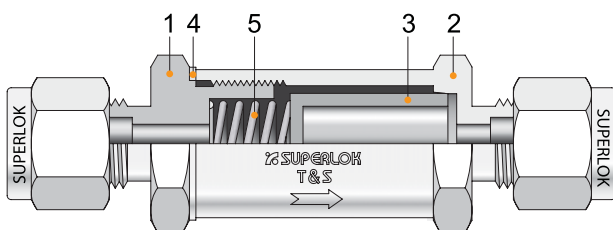
Effective Filtration Area

Filter Series	Effective Filtration Area in ² (mm ²)
	Sintered
SIF1	0.55(350)
SIF2	1.3(830)
SIF3 & SIF4	2.0(1280)

Filter Elements

Nominal Pore Size μm	Pore Size Range μm
0.5	0.5 to 2
2	1 to 4
7	5 to 10
15	11 to 25
60	50 to 75
90	75 to 100

Materials of Construction



No.	Description	Material
1	INLET BODY	SS316
2	OUTLET BODY	SS316
3	FILTER ELEMENTS	SS316 - sintered
4	GASKET	Silver Plate SS316
5	SPRING	SS304

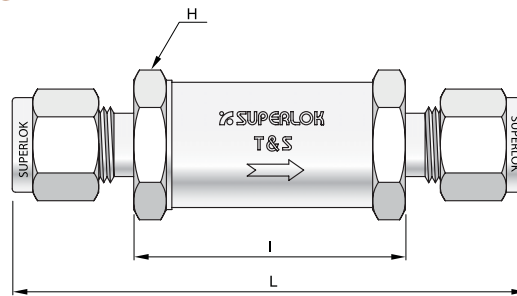
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Flow Data at 70°F (20°C)

Nominal Element Pore Size μm	Inlet Pressure psig(bar)									Pressure Drop psig (bar)								
	5 (0.34)			10 (0.68)			15 (1.0)			10 (0.68)			50 (3.4)			100 (6.8)		
	SIF1	SIF2	SIF3,4	SIF1	SIF2	SIF3,4	SIF1	SIF2	SIF3,4	SIF1	SIF2	SIF3,4	SIF1	SIF2	SIF3,4	SIF1	SIF2	SIF3,4
0.5	0.04	0.12	0.36	0.06	0.26	0.86	0.12	0.48	1.6	0.001	0.005	0.012	0.005	0.023	0.053	0.016	0.039	0.102
2	0.20	0.6	1.4	0.40	1.4	2.8	0.60	2.3	4.0	0.01	0.032	0.035	0.032	0.115	0.147	0.053	0.174	0.214
7	0.50	1.4	1.8	0.90	2.9	4.2	1.2	4.7	6.8	0.013	0.053	0.086	0.04	0.174	0.294	0.064	0.267	0.468
15	0.80	1.2	1.8	1.3	2.9	4.9	1.5	4.7	7.9	0.016	0.067	0.112	0.048	0.174	0.348	0.078	0.28	0.548
60	1.7	3.1	5.1	2.2	5.9	10	2.4	8.5	15	0.02	0.12	0.267	0.067	0.441	0.896	0.094	0.615	1.337
90	1.8	4.1	6.1	2.2	7.5	11	2.6	10	16	0.027	0.16	0.307	0.067	0.561	1.02	0.08	0.815	1.47

Table of Dimensions



Order Number		Orifice (mm)	End Connection		Dimension (mm)		
Series	Part No.		Inlet / Outlet	H	I	L	
SIF1	M	2.4	1/8" Male NPT	14.3	29.2	48.6	
	F		1/8" Female NPT				
	S		1/8" SUPERLOK				
	S		3mm SUPERLOK				
SIF2	M	4.8	1/4" Male NPT	19.0	39.7	68.3	
	F		1/4" Female NPT				
	S		1/4" SUPERLOK				
	S		6mm SUPERLOK				
SIF3	M	7.1	3/8" Male NPT	25.4	43.2	71.6	
	F		3/8" Female NPT				
	S		3/8" SUPERLOK				
SIF4	S	10.4	1/2" SUPERLOK			86.9	
	S		10mm SUPERLOK				82.2

Dimension shown SUPERLOK nuts measure in the finger-tight, where applicable. All dimensions are reference only, subject to change.

Ordering Information

SIF - M 4N - 7 - B

1 2 3 4 5

1. Valve Series
- SIF1: Orifice 2.4mm
 - SIF2: Orifice 4.8mm
 - SIF3: Orifice 7.1mm
 - SIF4: Orifice 10.4mm

3. Port Size
- Pipe Thread Designation

Size (inch)	1/8	1/4	3/8
ISO Tapered	2R	4R	6R
NPT	2N	4N	6N

2. Port Type
- S: SUPERLOK Tube Fitting
 - M: Male Pipe Thread
 - F: Female Pipe Thread

- Tube O.D Designation

Tube O.D (inch)	1/8	1/4	3/8	1/2
Designation	2	4	6	8
Tube O.D (mm)	3	6	10	-
Designation	3M	6M	10M	-

4. Filter Element - Pore Size
- 0.5 : 0.5 Micron
 - 2 : 2 Micron
 - 7 : 7 Micron
 - 15 : 15 Micron
 - 60 : 60 Micron
 - 90 : 90 Micron

5. Body Material
- Nil: 316 Stainless Steel
 - B: Brass