

# 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)

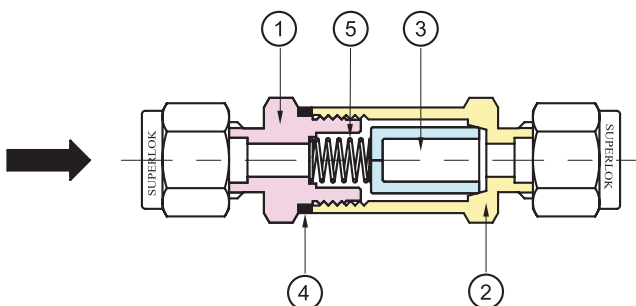
### Effective Filtration Area

Filter Series	Effective Filtration Area in <sup>2</sup> (mm <sup>2</sup> )
	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

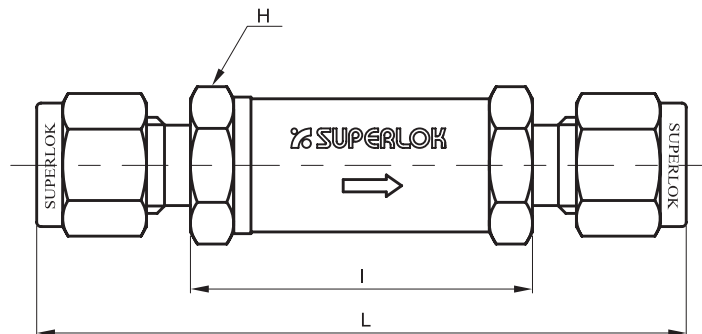
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## Flow Data at 70°F (20°C)

Nominal Element Pore Size $\mu\text{m}$	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
Air Flow, ft <sup>3</sup> /min									Water Flow, ft <sup>3</sup> /min									
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	2N	2.4	1/8" Male NPT	14.3	29.2	48.6
	F	2N		1/8" Female NPT			54.9
	S	2		1/8" SUPERLOK			59.7
	S	3M		3mm SUPERLOK			60.5
SIF2	M	4N	4.8	1/4" Male NPT	19.0	39.7	68.3
	F	4N		1/4" Female NPT			72.9
	S	4		1/4" SUPERLOK			75.2
	S	6M		6mm SUPERLOK			
SIF3	M	6N	7.1	3/8" Male NPT	25.4	43.2	71.6
	F	6N		3/8" Female NPT			77.2
	S	6		3/8" SUPERLOK			81.8
SIF4	S	8	10.4	1/2" SUPERLOK			86.9
	S	10M		10mm SUPERLOK			82.2

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