

Micron In-line Filters



SIF Series

FEATURES

- Remove system particulate contaminants.
- In-line 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)

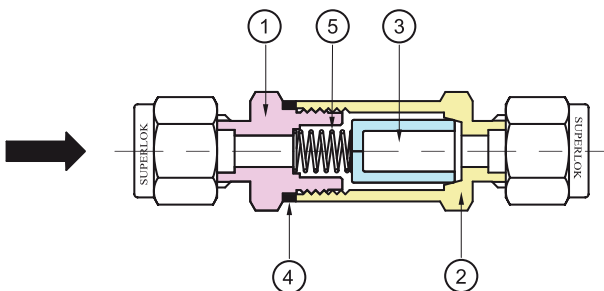
Effective Filtration Area

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

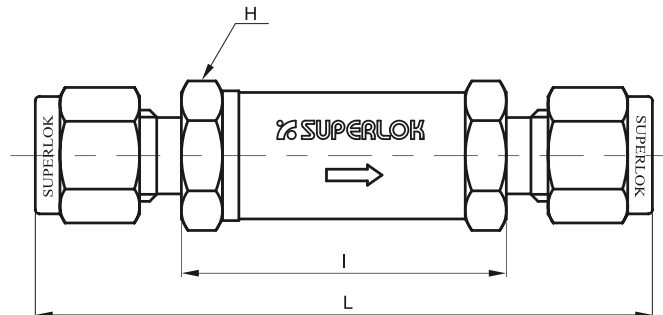
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Flow Data at 70 °F (20 °C)

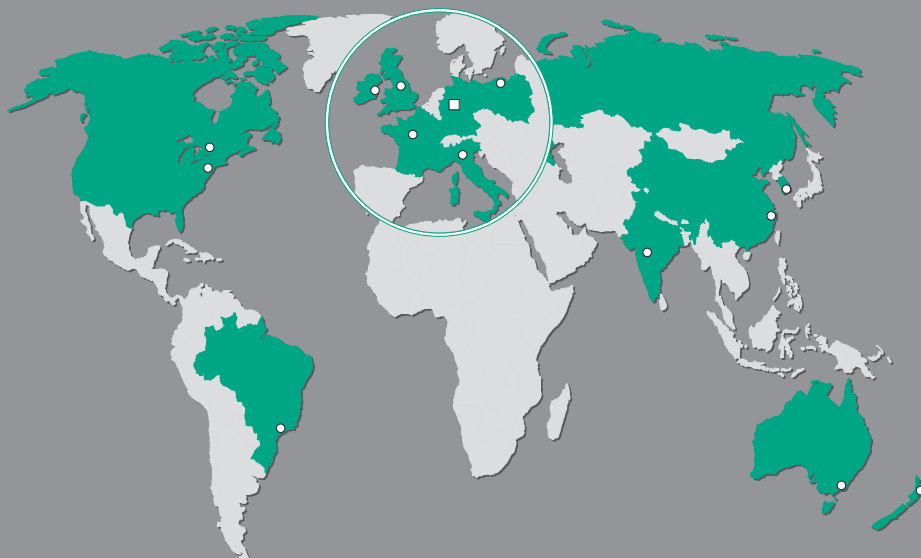
Nominal Element Pore Size μm	Inlet Pressure psig(bar)									Pressure Drop psig (bar)								
	5 (0.34)			10 (0.68)			15 (1.0)			10 (0.68)			50 (3.4)			100 (6.8)		
	SIF1	SIF2	SIF3,4	SIF1	SIF2	SIF3,4	SIF1	SIF2	SIF3,4	SIF1	SIF2	SIF3,4	SIF1	SIF2	SIF3,4	SIF1	SIF2	SIF3,4
Air Flow, ft ³ /min									Water Flow, ft ³ /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	
LOK-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
LOK-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				
LOK-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
LOK-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.


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