

Micron Inline Filters

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 to 900°F (-28 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)

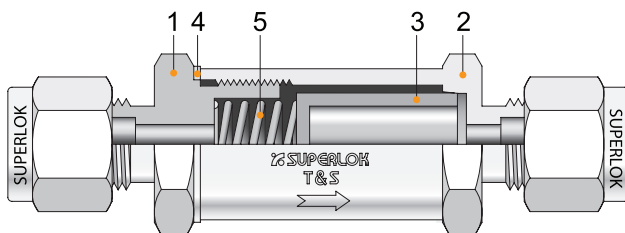
Effective Filtration Area

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



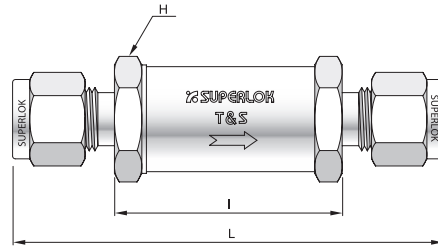
No.	Description	Material
*1	Inlet Body	SS316 / A276
*2	Outlet Body	SS316 / A276
*3	Filter Elements	SS316 / Sintered
*4	Gasket	SS316 / Silver plated
*5	Spring	SS304

* Wetted components

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, L /min									Water Flow, L /min								
0.5	1.1	3.4	10	1.7	7.3	24	3.4	13	4.5	0.03	0.15	0.34	0.15	0.64	1.5	0.45	1.0	2.8
2	5.6	17	39	11	39	79	17	65	110	0.30	0.90	0.98	0.91	3.2	4.1	1.5	4.9	6.0
7	14	39	51	25	82	119	34	130	190	0.37	1.50	2.40	1.10	4.9	8.3	1.8	7.5	13
15	22	34	51	36	82	130	42	130	220	0.45	1.80	3.10	1.30	4.9	9.8	2.1	7.9	15
60	48	87	140	62	160	280	68	240	420	0.56	3.40	7.50	1.80	12	25	2.6	17	37
90	51	110	170	62	210	310	73	280	450	0.75	4.50	8.70	1.80	15	28	2.2	23	41

Table of Dimensions



Part No.	Orifice	End Connection Inlet / Outlet	Dimension		
			H	I	L
SIF1	M2N	1/8" Male NPT	14.3	29.2	48.6
	F2N	1/8" Female NPT			54.9
	S2	1/8" SUPERLOK			59.7
	S3M	3mm SUPERLOK			60.5
SIF2	M4N	1/4" Male NPT	19.0	39.7	68.3
	F4N	1/4" Female NPT			72.9
	S4	1/4" SUPERLOK			75.2
	S6M	6mm SUPERLOK			75.2
SIF3	M6N	3/8" Male NPT	25.4	43.2	71.6
	F6N	3/8" Female NPT			77.2
	S6	3/8" SUPERLOK			81.8
SIF4	S8	1/2" SUPERLOK	25.4	43.2	86.9
	S12M	12mm SUPERLOK			82.2

- Dimensions and Drawings are for reference only and are subject to change without prior notice.
 - Unless otherwise specified, all dimensions are in millimeters.
 - Sizes, pressure classes, and end connections not listed are available upon request.

Ordering Information

Example: **SIF2 - M 4N - 7 - B**

1
2
3
4
5

1. Product Series

- SIF1 = Orifice 2.4mm SIF2 = Orifice 4.8mm
- SIF3 = Orifice 7.1mm SIF4 = Orifice 10.4mm

2. Port Type

- S = SUPERLOK Tube Fitting
- M = Male Pipe Thread
- F = Female Pipe Thread

3. Port Size

Pipe Thread Designator

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

Tube O.D Designator

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

4. Filter Element - Pore Size

- 05 = 0.5 Micron 2 = 2 Micron
- 7 = 7 Micron 15 = 15 Micron
- 60 = 60 Micron 90 = 90 Micron

5. Body Material

- (Blank) = 316 Stainless Steel
- B = Brass

※ For special sizes and configurations, please consult BMT (SUPERLOK) sales representative.