

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°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)

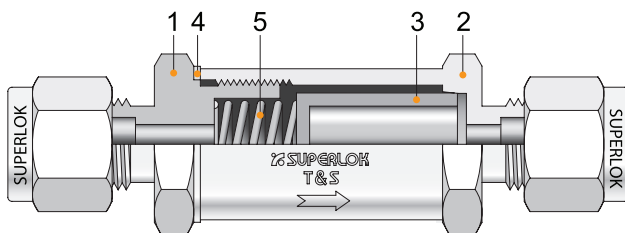
Effective Filtration Area

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

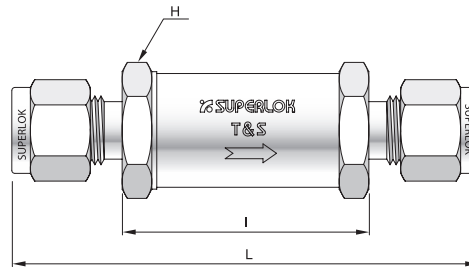


No.	Description	Material
1	Inlet Body	A276-316
2	Outlet Body	A276-316
3	Filter Elements	SS316 - Sintered
4	Gasket	Silver Plate SS316
5	Spring	SS304

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	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 Number	Orifice	End Connection	Dimension		
		Inlet / Outlet	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

- All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change.
- Dimension shown SUPERLOK nuts measure in the finger-tight, where applicable.

Ordering Information

Example :

SIF2 - 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

2. Port Type

S: SUPERLOK Tube Fitting
M: Male Pipe Thread
F: Female Pipe Thread

3. Port Size

Pipe Thread Designation

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

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

- Blank : 316 Stainless Steel
- B: Brass