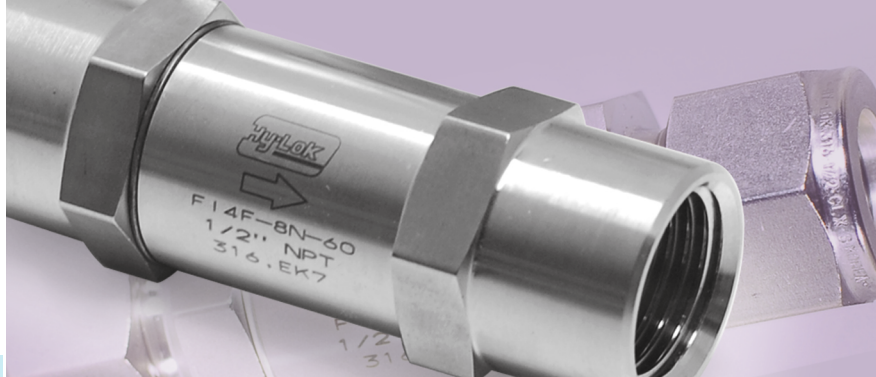




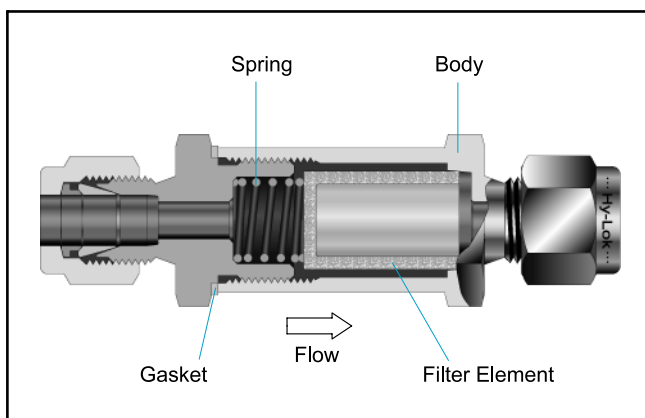
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Catalog No. H-F200
Mar. 2023



Micron Inline Filter

FI Series



Features

- In-line filters are for use where space is limited
- Replaceable Filter element
- Particle trapping for clean fluid

Material of Construction

Description	Material / ASTM Specification	
Body	316 SS / A479	BRASS / B16
Spring	304 SS	
Gasket	Silver-plate 316 SS	Aluminum
Filter Elements	316 SS Sintered	

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)
	Air Flow, std in /min (std L/min)			Water Flow, std in /min (std L/min)		
0.5	67.13 (1.1)	103.76 (1.7)	207.49 (3.4)	1.83 (0.03)	9.15 (0.15)	27.46 (0.45)
2	341.75 (5.6)	671.30 (11)	1037.46 (17)	18.30 (0.30)	55.53 (0.91)	91.54 (1.5)
7	854.38 (14)	1525.68 (25)	2074.92 (34)	22.58 (0.37)	67.13 (1.1)	109.85 (1.8)
15	1342.59 (22)	2196.97 (36)	2563.13 (42)	27.46 (0.45)	79.34 (1.3)	128.16 (2.1)
60	2929.30 (48)	3783.67 (62)	4149.84 (68)	34.18 (0.56)	109.85 (1.8)	158.67 (2.6)
90	3112.38 (51)	3783.67 (62)	4454.97 (73)	45.77 (0.75)	109.85 (1.8)	134.26 (2.2)

Technical Data

- **Maximum Operating Pressure** : 3000 psig @ 70°F (21°C)
- **Operating Temperature Range** :
From -20°F to 900°F (-28°C to 482°C) with SS316 body.
and up to 300°F (148°C) with Brass body

- **Effective Filtration Area** :

Series	Effective Filtration Area
FI1	0.55 sq. in. (0.00035 sq. meter)
FI2	1.30 sq. in. (0.00083 sq. meter)
FI3, FI4	2.0 sq. in. (0.00128 sq. meter)

- **Filter elements**

Elements remove 95% of particles larger than the nominal pore size.

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

Operation and Filter Replacement

The filter element, which is made of sintered stainless steel, is porous and has lots of tiny holes. Particles bigger than the pores are not allowed to pass through, hence clean system media. After a certain period, the holes may be blocked by particles and pressure drop will increase. This depends upon the total flow through the elements and cleanliness of upstream flow. The element needs to be replaced for clean system media with minimal pressure drop.

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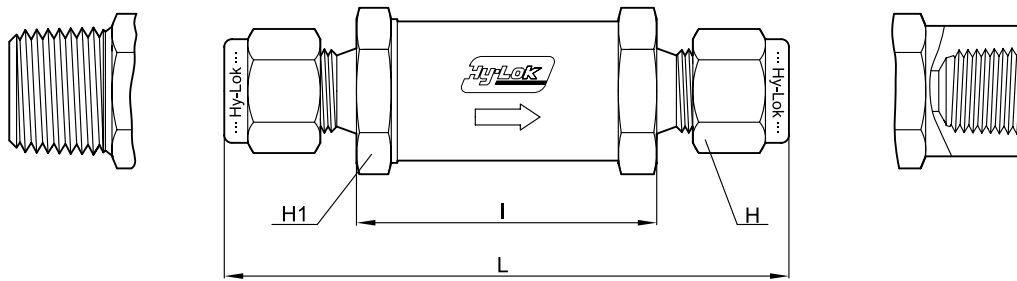


Table of Dimensions

Basic Part No.			Orifice in.(mm)	End Connection		Dimensions, in.(mm)			
Series	Part No.			Inlet	Outlet	L	I	H	H ₁
FI 1	H	2T	0.094 (2.4)	1/8 Hy-Lok	1/8 Hy-Lok	2.35 (59.7)	1.15 (29.2)	7/16 (11.1)	9/16 (14.3)
	M	2N		1/8 Male NPT	1/8 Male NPT	1.91 (48.6)		-	
	F	2N		1/8 Female NPT	1/8 Female NPT	2.16 (54.9)		-	
	H	3M		3mm Hy-Lok	3mm Hy-Lok	2.38 (60.5)		0.47 (12.0)	
FI 2	H	4T	0.187 (4.8)	1/4 Hy-Lok	1/4 Hy-Lok	2.96 (75.2)	1.56 (39.7)	9/16 (14.3)	3/4 (19.0)
	M	4N		1/4 Male NPT	1/4 Male NPT	2.69 (68.3)		-	
	F	4N		1/4 Female NPT	1/4 Female NPT	2.87 (72.9)		-	
	H	6M		6mm Hy-Lok	6mm Hy-Lok	2.96 (75.2)		0.55 (14.0)	
FI 3	H	6T	0.281 (7.1)	3/8 Hy-Lok	3/8 Hy-Lok	3.22 (81.8)	1.70 (43.2)	11/16 (17.4)	1 (25.4)
	M	6N		3/8 Male NPT	3/8 Male NPT	2.82 (71.6)		-	
	F	6N		3/8 Female NPT	3/8 Female NPT	3.04 (77.2)		-	
FI 4	H	8T	0.409 (10.4)	1/2 Hy-Lok	1/2 Hy-Lok	3.42 (86.9)		7/8 (22.2)	
	H	12M		12mm Hy-Lok	12mm Hy-Lok	3.43 (87.2)		0.87 (22.0)	

Dimensions shown with Hy-Lok nuts in finger-tight position, where applicable.

Ordering Information

VFI

Series Designator

- V : Valve
- FI 1 : Orifice 0.094(2.4)
- FI 2 : Orifice 0.187(4.8)
- FI 3 : Orifice 0.281(7.1)
- FI 4 : Orifice 0.409(10.4)

F

End Connection Designator

- H : Hy-Lok Tube Fitting
- M : Male Pipe Thread
- F : Female Pipe Thread

4N

Size Designator

• NPT (ISO / BSP)

Thread (in)	1 / 8	1 / 4	3 / 8	1 / 2
Designation	2N(R)	4N(R)	6N(R)	8N(R)

• Tube O.D. Designation

Inch Tube	Tube O.D. Designation	1 / 8	1 / 4	3 / 8	1 / 2
		2	4	6	8
Metric Tube	Tube O.D.	3mm	6mm	10mm	12mm
	Designation	3M	6M	10M	12M

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Filter Element Designator

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

S316

Body Material Designator

- S316 : 316 Stainless Steel
- BRAS : brass

SAFETY in VALVE SELECTION

Proper installation, material compatibility, operation and maintenance of these valves are the responsibility of the user. The total system design must be taken into consideration to insure optimal performance and safety.