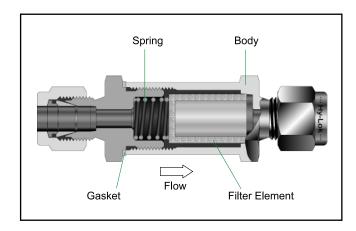


Micron Inline Filter

Catalog No. H-F200 Mar. 2004



Features

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

Material of Construction

Description	Material / ASTM Specification			
Body	SS316 / A479 BRASS / B16			
Spring	SS302			
Gasket	Silver-plated SS316 / A240 Aluminum / B209			
Filter Elements	SS316 Sintered			

Technical Data

• Maximum Operating Pressure: 3000 PSI @ 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 Filteration Area:

Series	Effective Filteration 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 μ m	Pore Size Range μ m		
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.

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)









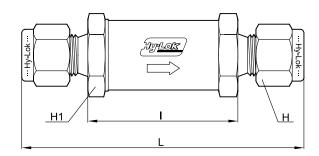


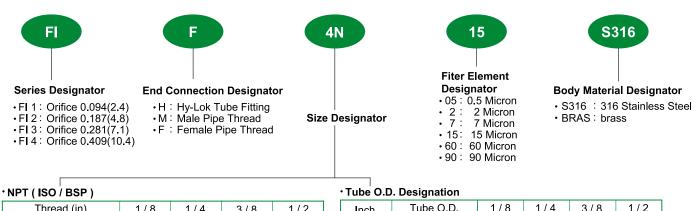


Table of Dimensions

Basic Part No.		Orifice	End Co	nnection	ection Dimensions, in.(mm)				
Series	Р	art No.	in.(mm)	Inlet	Outlet	L	I	Н	H ₁
	Н	- 2T -		1/8 Hy-Lok	1/8 Hy-Lok	2.35 (59.7)		7/16 (11.1)	9/16 (14.3)
FI 1	М	- 2N -	0.094	1/8 Male NPT	1/8 Male NPT	1.91 (48.6)	1.15 (29.2)	-	
	F	- 2N -	(2.4)	1/8 Female NPT	1/8 Female NPT	2.16 (54.9)	1.10 (23.2)	_	
	Н	- 3M -	1 [3mm Hy-Lok	3mm Hy-Lok	2.38 (60.5)		0.47 (12.0)	
	Н	- 4T -		1/4 Hy-Lok	1/4 Hy-Lok	2.96 (75.2)	1.56 (39.7)	9/16 (14.3)	3/4 (19.0)
FI 2	М	- 4N -	0.187	1/4 Male NPT	1/4 Male NPT	2.69 (68.3)		-	
112	F	- 4N -	(4.8)	1/4 Female NPT	1/4 Female NPT	2.87 (72.9)	1.50 (55.7)	-	
	Н	- 6M -	1	6mm Hy-Lok	6mm Hy-Lok	2.96 (75.2)		0.55 (14.0)	
	Н	- 6T -	0.004	3/8 Hy-Lok	3/8 Hy-Lok	3.22 (81.8)		11/16 (17.4)	1 (25.4)
FI3	М	- 6N -	0.281 (7.1)	3/8 Male NPT	3/8 Male NPT	2.82 (71.6)	1.70 (43.2)	-	
	F	- 6N -] (/.1) [3/8 Female NPT	3/8 Female NPT	3.04 (77.2)		-	
FI 4	Н	- 8T -	0.409	1/2 Hy-Lok	1/2 Hy-Lok	3.42 (86.9)		7/8 (22.2)	
	Н	- 12M -	(10.4)	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



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

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

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.

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