Filters

High-capacity Filters FH Series

Introduction

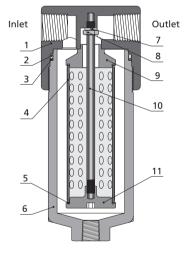
FH Series High-capacity Filters feature a large filtration area, more efficient filtration, stable flow, wide medium compatibility, etc., making them suitable for high-flow pipeline systems.

Features

- ◎ Filtration area type: 4H and 8H
- \bigcirc Bypass port at filter bottom optional for the ease of sampling or purging
- Elements equipped with retention levers for easy disassembling, cleaning and replacement
- O Standard seal materials: FKM and PTFE
- O Working pressure up to 5000 psig
- \bigcirc Variety of end connections optional

Standard Materials of Construction

		Body Material 316 SS					
Item	Component						
		Material Grade/ASTM Specification					
1	Body	F316 SS/A182					
2	O-ring	FKM/FFKM/NBR/EPDM					
3	Backup Ring	PTFE					
4	Element	Strainer type 306 SS					
5	Gasket	PTFE					
6	Bonnet	316 SS/A479					
7	Standard Spring Washer	Stainless Steel					
8	Hexagon Thin Nut	Stainless Steel					
9	Upper Retainer	316 SS/A479					
10	Lever	316 SS/A479					
11	Lower Retainer	316 SS/A479					



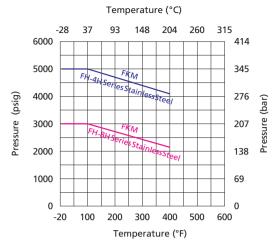
FH Series Strainer Filter Shown



Temperature Range of Sealing Materials

O-ring Material	Temperature Range °F (°C)
NBR	-20 to 212 (-28 to 100)
EPDM	-50 to 250 (-45 to 121)
FFKM	30 to 600 (-1 to 315)
FKM	-4 to 400 (-20 to 204)

Pressure vs. Temperature



Note: For Pressure vs. Temperature curves for other seal materials listed above, please contact FITOK or our authorized distributors.

Filter Elements

strainer (25 µm)



strainer (150 µm)



 \bigcirc 316 SS wire meshes and metal framework

O Uniform mesh pores to provide larger filtration area and more stable flows

Nominal Pore Size of Filter Elements

	Nominal Pore Size	Pore Size Range	Element Designator		
	25 µm	500 mesh	25		
	100 µm	140 mesh	100		
Strainer	150 µm	100 mesh	150		
	250 µm	60 mesh	250		
	450 µm	40 mesh	450		

Note: Filter elements remove 95% of particles larger than the nominal pore size.

Filtration Area

Filtration	Filtration Area, in. ² (mm ²)					
Area Type	Strainer					
4H	10.70 (6908)					
8H	17.02 (10980)					

Note: Strainer element available for FH series, and sintered or non-metallic element optional upon customers' requests.



Maximum Differential Pressure of Clean Filter at 70°F (20°C)

Maximum Differential Pressure psig (bar)							
25 µm	100 µm	150 µm	250 μm	450 µm			
1000							
		(69.0)					

Flow Data

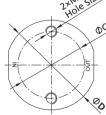
Filtration		Element Type	Inlet Pressure, psig (bar)			
Area	Element Nominal Pore Size µm		0.14 (2)	0.34 (5)	0.55 (8)	
Туре			Air Flow, std m³/h			
4H	25, 100, 150, 250, 450	Strainer	5	8.3	10.4	
8H	25, 100, 150, 250, 450	Strainer	8.4	14	18.9	

Note: Outlet is discharged to the atmosphere.

Dimensions and Ordering Information

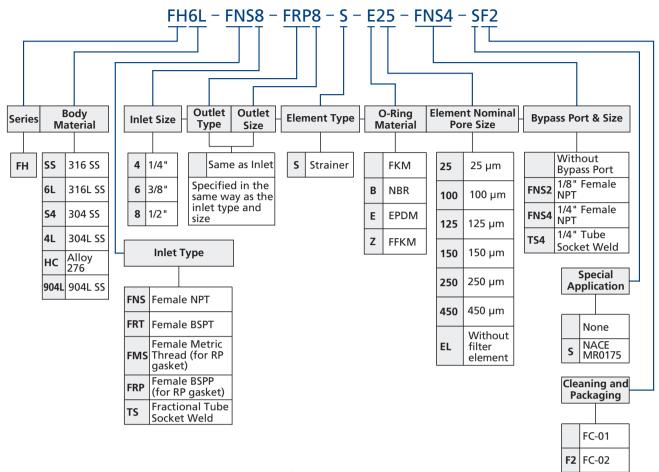
Dimensions, in inches (millimeters), are for reference only.

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	FITOK		Basic	Connection 1	Type and Size	Filtration	Dimensions in. (mm)				
			Ordering Number	Inlet	Outlet	Area Type	А	ØB	ØC	ØD	Mounting Hole Size
		ØB	FHD-FNS4-S-DD	1/4 Female NPT	1/4 Female NPT	4H	2.29 (158.2)	1.61 (41)	1.95 (49.5)	1.94 (49.4)	M8 × 1 - 6H threads 0.47"
∢			FH FRT4-S-	1/4 Female BSPT	1/4 Female BSPT						(12 mm) deep, pores 0.63"
	-		FH FRP4-S-	1/4 Female BSPP	1/4 Female BSPP						(16 mm) deep
			FHD-FNS6-S-DD	3/8 Female NPT	3/8 Female NPT	8H	6.89 (175)	2.5 (63.5)	2.28 (58)	3.07 (78)	M10 × 1.5 - 6H threads 0.59"
			FH FRT6-S-	3/8 Female BSPT	3/8 Female BSPT						(15 mm) deep, pores 0.71"
ļ			FH -FRP6-S-	3/8 Female BSPP	3/8 Female BSPP						(18 mm) deep
	2×Mountine Hole Size		FHDD-FNS8-S-DD	1/2 Female NPT	1/2 Female NPT						M10 × 1.5 - 6H threads 0.59"
			FHDD-FRT8-S-DD	1/2 Female BSPT	1/2 Female BSPT		6.89 (175)	2.5 (63.5)	2.28 (58)	3.07 (78)	(15 mm) deep,
			FH - FRP8-S-	1/2 Female BSPP	1/2 Female BSPP						pores 0.71" (18 mm) deep





Filters Ordering Number Description



Note: "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.

1. Cleaning and Packaging:

FC-01: Standard cleaning and packaging for basic industrial procedures.

FC-02: Special cleaning and packaging for wetted system components to ensure compliance requirement as stated in ASTM G93 Level C.



Elements Ordering Number Description

