

Filters

FB Series



Filtration Definitions

- ⦿ Sintered element: metal powder (alloys are available) is pressed in a die at sufficient pressure that the powder particles adhere at their contact points.
- ⦿ Strainer element: the strainer is cup-shaped and includes an inner cup-shaped support structure having staggered perforations extending through the surfaces thereof, an outer cup-shaped strainer structure constructed of wire mesh is closely received over the support structure.
- ⦿ Element nominal pore size: the element nominal pore size is normally calculated from the pressure required to cause air to bubble from the largest pore in the filter element when submerged in a test liquid.

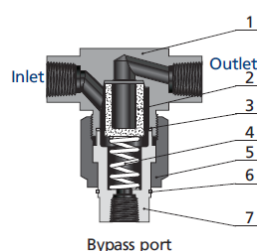
Features

Bypass Filters

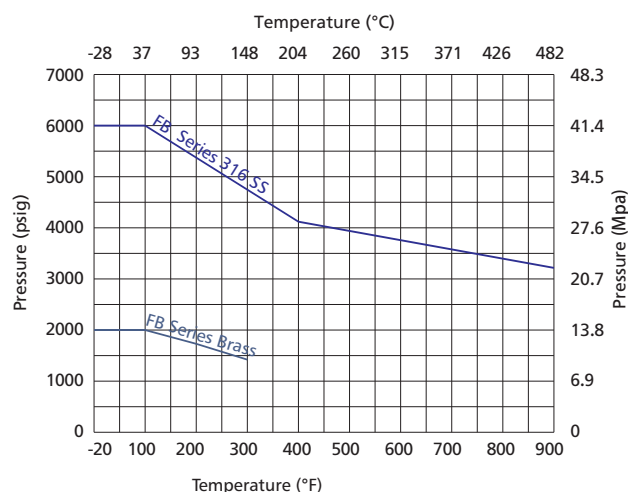
FB Series

- ⦿ Bypass port at filter bottom for the ease of sampling or purging
- ⦿ Union bonnet design
- ⦿ Nominal pore sizes for sintered element: 0.5, 2, 7, 15, 40, 60 and 80 μm
- ⦿ Nominal pore sizes for strainer element: 100, 150, 250 and 450 μm
- ⦿ Working pressure up to: 41.4 Mpa
- ⦿ Working temperature: $-28^{\circ}\text{C} \sim +482^{\circ}\text{C}$
- ⦿ Body materials: 316 SS, 316L SS, 304 SS, 304L SS, 904L SS and Brass
- ⦿ Variety of end connections available

FB Series



Pressure vs. Temperature



Contact FITOK Group or our authorized distributors for curve graph of other materials.

Standard Materials of Construction

Component		Material Grade/ASTM Specification	
		316 SS	Brass
1	Body	F316 SS/A182	Brass C37700/B283
2	Element	Sintered 316 SS or strainer 316 SS	Sintered 316 SS or strainer 316 SS
3	Gasket	316 SS/A479 with PTFE/D1710 coating or silver-plated	PTFE/D1710 or aluminum/B209
4	Spring	302 SS/A313	302 SS/A313
5	Bonnet Nut	316 SS/A479	C36000/B16
6	Backup Ring	Stainless steel	
7	Bonnet	316 SS/A479	C36000/B16

1. Lubricants: molybdenum disulfide-based and silicone-base

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

Series	Maximum Differential Pressure Mpa										
	0.5 micron	2 micron	7 micron	15 micron	40 micron	60 micron	80 micron	100 micron	150 micron	250 micron	450 micron
FB	6.9										

Filters Ordering Number Description

FBSS – FL8 – ML10 – S – P150 – FL4SF2

Series	Body Material	Inlet Type	Inlet Size	Outlet Type	Outlet Size	Element Type	Gasket Material	Element Nominal Pore Size	Bypass Port (for FB Series Only)	Special Application	Cleaning and Packaging					
FB	SS	FNS Female NPT	2 1/8"	Same as Inlet	Specified in the same way as the inlet type and size	Sintered	Silver-plated 316 SS for	05 0.5 µm (Sintered)	1/8 Female NPT	No	FC-01					
	6L	NS Male NPT	4 1/4"					2 2 µm	FL2 1/8" Fractional Tube Fitting	NACE MR0175	FC-02					
	S4	FRT Female BSPT	6 3/8" or 6 mm			S Strainer	PTFE-plated 316 SS	A Aluminum (the only option for brass body)	7 7 µm	FL4 1/4" Fractional Tube Fitting						
	4L	RT Male BSPT	8 1/2" or 8 mm						15 15 µm	TS4 1/4" Tube Socket Weld						
	S1	FMS Female Metric Thread (for RP)	10 10 mm						40 40 µm	FL6 3/8" Fractional Tube Fitting						
	B	MS Male Metric Thread (for RG)	12 3/4" or 12 mm						60 60 µm	FL8 1/2" Fractional Tube Fitting						
	904L	FRP Female BSPP (for RP)		W No-plated 316 SS		80 80 µm	100 µm (Strainer)	150 µm (Strainer)	250 µm (Strainer)	450 µm (Strainer)	Without filter element					
		BP Male BSPP (for RG)														
		FL Fractional Tube Fitting														
		ML Metric Tube Fitting														
		TS Fractional Tube Socket Weld														
	TB Fractional Tube Butt Weld															
	FR Male FR Fitting															

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

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1. Standard thread pitch for metric threads are as follows:

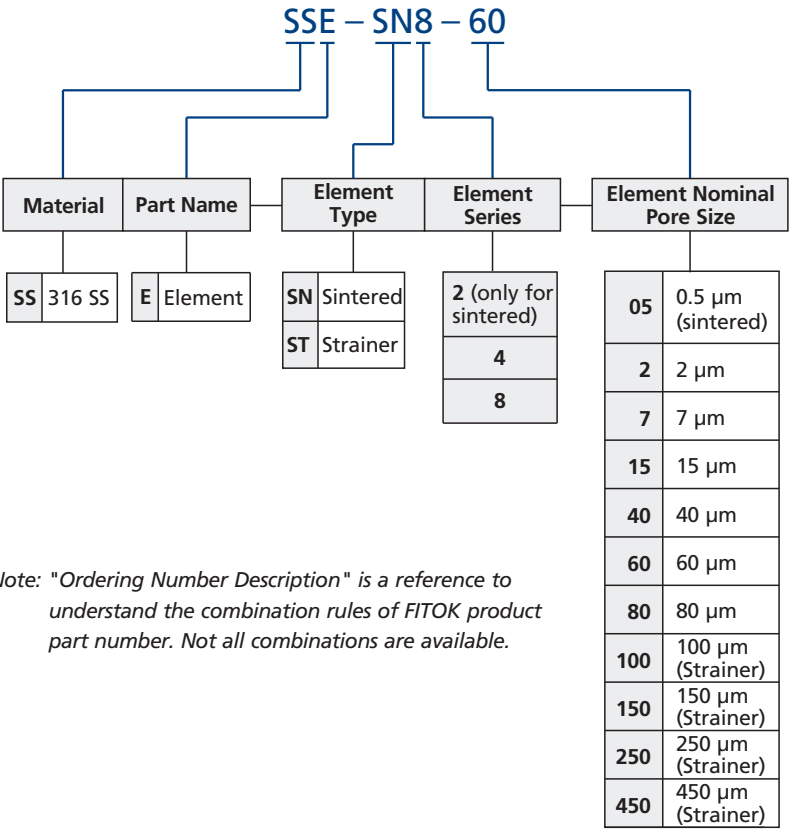
- M10 and below: 1 mm
- M12 to M24: 1.5 mm
- M27 and above: 2 mm

Standard thread pitch should be ignored in the ordering number, others should be specified.

2. 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





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