

Filters

FT, FB, FI, FW and FH Series

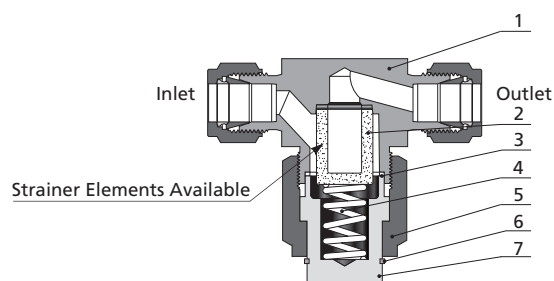


Filters

Features

Tee-type Filters (FT Series)

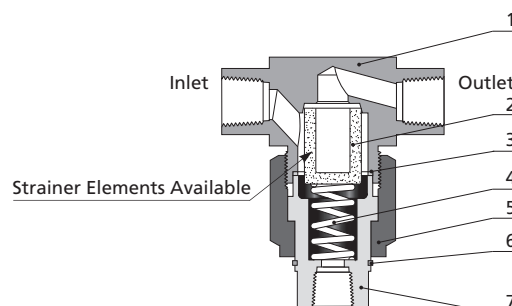
- ⦿ Filtration area type: 2, 4 and 8
- ⦿ Union bonnet design
- ⦿ Working pressure up to 6000 psig (414 bar)
- ⦿ Working temperature: -20°F to 900°F (-28°C to 482°C)
- ⦿ Variety of end connections available
- ⦿ Body materials: 316 SS, 316L SS, 304 SS, 304L SS, 904L SS and Brass
- ⦿ Element nominal pore size:
 - 0.5, 2, 7, 15, 40, 60 and 80 μm available for the sintered type, 100, 150, 250 and 450 μm available for the strainer type
- ⦿ ECE R110 certified



FT Series Sintered Filter Shown

Bypass Filters (FB Series)

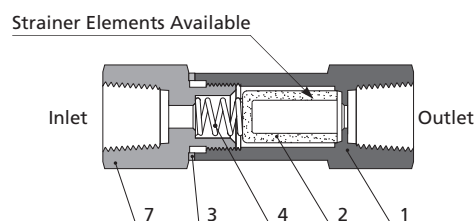
- ⦿ Filtration area type: 2, 4 and 8
- ⦿ Bypass port at filter bottom for the ease of sampling or purging
- ⦿ Union bonnet design
- ⦿ Working pressure up to 6000 psig (414 bar)
- ⦿ Working temperature: -20°F to 900°F (-28°C to 482°C)
- ⦿ Variety of end connections available
- ⦿ Body materials: 316 SS, 316L SS, 304 SS, 304L SS, 904L SS and Brass
- ⦿ Element nominal pore size:
 - 0.5, 2, 7, 15, 40, 60 and 80 μm available for the sintered type, 100, 150, 250 and 450 μm available for the strainer type



FB Series Sintered Filter Shown

In-line Filters (FI Series)

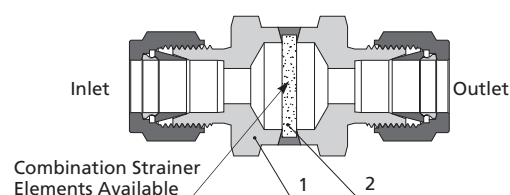
- ⦿ Filtration area type: 2, 4 and 8
- ⦿ Compact and space-saving design
- ⦿ Working pressure up to 3000 psig (207 bar)
- ⦿ Working temperature: -20°F to 900°F (-28°C to 482°C)
- ⦿ Variety of end connections available
- ⦿ Body materials: 316 SS, 316L SS, 304 SS, 304L SS, 321 SS, 904L SS and Brass
- ⦿ Element nominal pore size:
 - 0.5, 2, 7, 15, 40, 60 and 80 μm available for the sintered type, 100, 150, 250 and 450 μm available for the strainer type



FI Series Sintered Filter Shown

All-welded In-line Filters (FW Series)

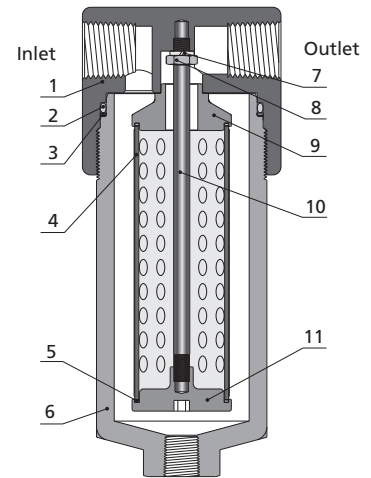
- ⦿ All-welded construction for elimination of leakage
- ⦿ Compact and space-saving design
- ⦿ Easy cleaning of filters by backflushing
- ⦿ Full-penetration weld between body and filter element
- ⦿ Working pressure up to 6000 psig (414 bar)
- ⦿ Working temperature: -20°F to 900°F (-28°C to 482°C)
- ⦿ Variety of end connections available
- ⦿ Body materials: 316 SS, 316L SS, 304 SS, 304L SS and 904L SS
- ⦿ Element nominal pore size:
 - 0.5 μm available for the sintered type, 2, 7 and 15 μm available for the combination strainer type



FW Series Sintered Filter Shown

High-capacity Filters (FH Series)

- ⦿ Filtration area type: 4H and 8H
- ⦿ Large filtration area, and high and stable flow to achieve more efficient filtration
- ⦿ Bypass port at filter bottom optional for the ease of sampling or purging
- ⦿ Elements equipped with retention levers for easy disassembling, cleaning and replacement
- ⦿ Standard seal materials: FKM and PTFE
- ⦿ Working pressure up to 5000 psig
- ⦿ Various O-ring materials optional for diverse medium
- ⦿ Variety of end connections available
- ⦿ Body materials: 316 SS, 316L SS, N04400, N10276, S32750, etc.
- ⦿ Metal elements currently available in strainer type only, nominal pore size: 25, 100, 150, 250, 450 μm and more degrees of accuracy available



FH Series Strainer Filter Shown

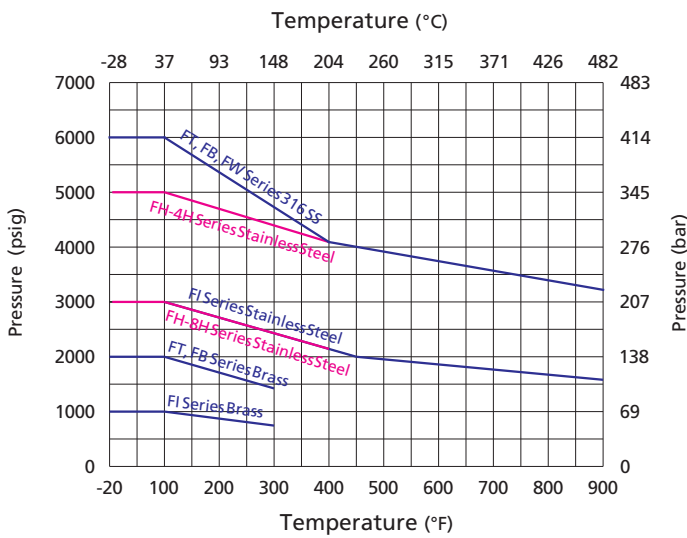
Standard Materials of Construction

FT, FB, FI and FW Series			
Item	Component	Body Material	
		316 SS	Brass
		Material Grade/ASTM Specification	
1	Body	F316 SS/A182	C37700/B283
		316 SS/A479	C36000/B16
2	Element	Sintered 316 SS or strainer 316 SS	
3	Gasket	Silver-plated 316 SS	Aluminum/B209
4	Spring	302 SS/A313	
5	Bonnet Nut	316 SS/A479	Brass C36000/B16
6	Backup Ring	Stainless steel	
7	Bonnet	316 SS/A479	Brass C36000/B16

1. FW Series filters not available in brass
2. Lubricants: molybdenum disulfide-based and silicone-based

FH Series		
Item	Component	Body Material
		316 SS
		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

Pressure vs. Temperature



Temperature Range of FH Series Sealing Materials

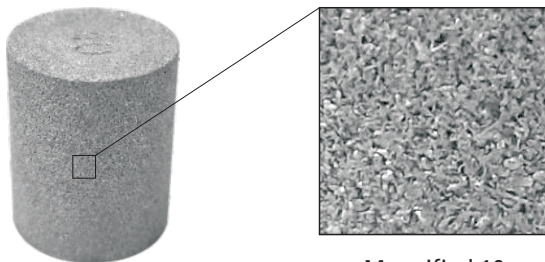
FH Series	
O-ring Material	Temperature Range °F (°C)
NBR	-20 to 212 (-28 to 100)
EPDM	-50 to 250 (-45 to 121)
FFKM	30 to 600 (-1 to 315)
FKM	-4 to 400 (-20 to 204)

Note: For Pressure vs. Temperature curves, please contact FITOK or our authorized distributors.

Filter Elements

FT, FB, FI Series

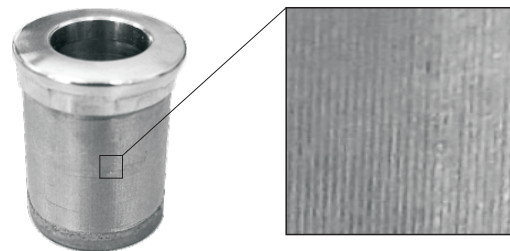
Sintered



Magnified 10x

- ⦿ 316 SS powder metallurgy
- ⦿ Irregular pores to trap impurity ions with smaller diameters

Strainer

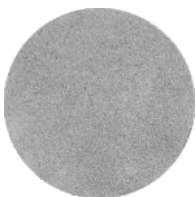


Magnified 10x

- ⦿ 316 SS wire mesh
- ⦿ Uniform mesh pores to trap impurity ions with larger diameters

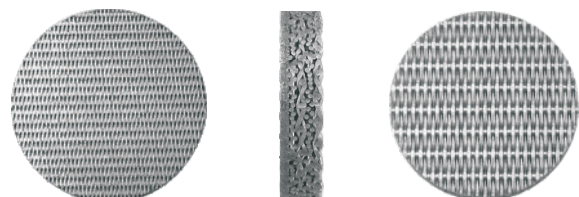
FW Series

Sintered



- ⦿ 316 SS powder metallurgy
- ⦿ Sheet-shaped filter cake to trap particles as small as 0.5 μm in diameter

Combination Strainer



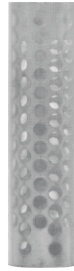
- ⦿ Multi-layer 316 SS wire meshes overlaid
- ⦿ Uniform mesh pores with high strength to allow for stable flows

FH Series

Cylindrical strainer (25 µm)



Cylindrical strainer (150 µm)



- ⦿ 316 SS wire meshes and metal framework
- ⦿ Uniform mesh pores to provide larger filtration area and more stable flows
- ⦿ Traps impurity ions with diameters in the range of 25 µm - 450 µm

Nominal Pore Size of Filter Elements

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

FT, FB, FI Series				FW Series			FH Series		
	Nominal Pore Size	Pore Size Range	Element Designator	Nominal Pore Size	Pore Size Range	Element Designator	Nominal Pore Size	Pore Size Range	Element Designator
Sintered	0.5 µm	0.5 to 2 µm	05	0.5 µm	0.5 to 2 µm	05	—	—	—
	2 µm	1 to 4 µm	2	—	—	—	—	—	—
	7 µm	5 to 10 µm	7	—	—	—	—	—	—
	15 µm	11 to 25 µm	15	—	—	—	—	—	—
	40 µm	35 to 53 µm	40	—	—	—	—	—	—
	60 µm	50 to 75 µm	60	—	—	—	—	—	—
	80 µm	70 to 95 µm	80	—	—	—	—	—	—
Strainer	100 µm	140 mesh	100	2 µm	6250 mesh	2	25 µm	500 mesh	25
	150 µm	100 mesh	150	7 µm	3500 mesh	7	100 µm	140 mesh	100
	250 µm	60 mesh	250	15 µm	800 mesh	15	150 µm	100 mesh	150
	450 µm	40 mesh	450	—	—	—	250 µm	60 mesh	250
	—	—	—	—	—	—	450 µm	40 mesh	450

Filtration Area

Series	Filtration Area Type	Filtration Area, in. ² (mm ²)	
		Sintered	Strainer
FT/FB	2	—	—
	4	1.30 (830)	1.00 (640)
	8	2.00 (1280)	1.70 (1090)
FI	2	0.55 (350)	—
	4	1.30 (830)	1.00 (640)
	8	2.00 (1280)	1.70 (1090)
FW	—	0.39 (254)	0.39 (254)
FH	4H	—	10.70 (6908)
	8H	—	17.02 (10980)

Notes:

1. No strainer element option for FI series filtration area type.
2. For FW series, sintered element available only for 0.5 µm nominal pore size, and combination strainer element option for the other sizes.
3. Strainer element available for FH series, and sintered or non-metallic element option to be developed upon customers' requests.

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

Series	Maximum Differential Pressure psig (bar)										
	0.5 µm	2 µm	7 µm	15 µm	40 µm	60 µm	80 µm	100 µm	150 µm	250 µm	450 µm
FT, FB, FI, FH	1000 (69.0)										
FW	600 (41.4)		100 (6.9)								

Flow Data

Series	Filtration Area Type	Element Nominal Pore Size µm	Element Type	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 ft ³ /min (L/min)			Water Flow, U.S. gal/min (L/min)		
FT/FB	2	0.5	Sintered	0.04 (1.1)	0.06 (1.7)	0.12 (3.4)	0.04 (0.15)	0.17 (0.64)	0.29 (1.0)
		2	Sintered	0.20 (5.6)	0.40 (11)	0.60 (17)	0.08 (0.30)	0.24 (0.91)	0.40 (1.5)
		7	Sintered	0.50 (14)	0.90 (25)	1.2 (34)	0.10 (0.37)	0.30 (1.1)	0.48 (1.8)
		15	Sintered	0.80 (22)	1.3 (36)	1.5 (42)	0.12 (0.45)	0.36 (1.3)	0.58 (2.1)
		60	Sintered	1.7 (48)	2.2 (62)	2.4 (68)	0.15 (0.56)	0.50 (1.8)	0.70 (2.6)
		80	Sintered	1.8 (51)	2.2 (62)	2.6 (73)	0.20 (0.75)	0.50 (1.8)	0.60 (2.2)
		40, 60, 80, 100, 150, 250, 450	Strainer	1.8 (51)	2.3 (6.5)	2.6 (73)	0.20 (0.75)	0.50 (1.8)	0.60 (2.2)
	4	0.5	Sintered	0.12 (3.4)	0.26 (7.3)	0.48 (13)	0.04 (0.15)	0.17 (0.64)	0.29 (1.0)
		2	Sintered	0.60 (17)	1.4 (39)	2.3 (65)	0.24 (0.90)	0.86 (3.2)	1.3 (4.9)
		7	Sintered	1.4 (39)	2.9 (82)	4.7 (130)	0.40 (1.5)	1.3 (4.9)	2.0 (7.5)
		15	Sintered	1.2 (34)	2.9 (82)	4.7 (130)	0.50 (1.8)	1.3 (4.9)	2.1 (7.9)
		60	Sintered	3.1 (87)	5.9 (160)	8.5 (240)	0.80 (3.0)	2.7 (10)	3.9 (14)
		80	Sintered	4.1 (110)	7.5 (210)	10 (280)	1.1 (4.1)	3.4 (12)	4.9 (18)
		40, 60, 80, 100, 150, 250, 450	Strainer	4.7 (130)	8.8 (250)	12 (340)	1.2 (4.5)	4.2 (15)	5.6 (21)
	8	0.5	Sintered	0.36 (10)	0.86 (24)	1.6 (45)	0.09 (0.34)	0.40 (1.5)	0.76 (2.8)
		2	Sintered	1.4 (39)	2.8 (79)	4.0 (110)	0.26 (0.98)	1.1 (4.1)	1.6 (6.0)
		7	Sintered	1.8 (51)	4.2 (119)	6.8 (190)	0.64 (2.4)	2.2 (8.3)	3.5 (13)
		15	Sintered	1.8 (51)	4.9 (130)	7.9 (220)	0.84 (3.1)	2.6 (9.8)	4.1 (15)
		60	Sintered	5.1 (140)	10 (280)	15 (420)	1.5 (5.6)	4.8 (18)	6.7 (25)
		80	Sintered	6.1 (170)	11 (310)	16 (450)	1.7 (6.4)	5.5 (20)	7.6 (28)
		40, 60, 80, 100, 150, 250, 450	Strainer	7.2 (200)	14 (390)	20 (560)	2.4 (9.0)	7.2 (27)	10 (37)

Note: Outlet is discharged to the atmosphere.

B-186 Filters

Series	Filtration Area Type	Element Nominal Pore Size μm	Element Type	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 ft ³ /min (L/min)			Water Flow, U.S. gal/min (L/min)			
FI	2	0.5	Sintered	0.04 (1.1)	0.06 (1.7)	0.12 (3.4)	0.01 (0.03)	0.04 (0.15)	0.12 (0.45)	
		2	Sintered	0.20 (5.6)	0.40 (11)	0.60 (17)	0.08 (0.30)	0.24 (0.91)	0.40 (1.5)	
		7	Sintered	0.50 (14)	0.90 (25)	1.2 (34)	0.10 (0.37)	0.30 (1.1)	0.48 (1.8)	
		15	Sintered	0.80 (22)	1.3 (36)	1.5 (42)	0.12 (0.45)	0.36 (1.3)	0.58 (2.1)	
		60	Sintered	1.7 (48)	2.2 (62)	2.4 (68)	0.15 (0.56)	0.50 (1.8)	0.70 (2.6)	
		80	Sintered	1.8 (51)	2.2 (62)	2.6 (73)	0.20 (0.75)	0.50 (1.8)	0.60 (2.2)	
	4	0.5	Sintered	0.12 (3.4)	0.26 (7.3)	0.48 (13)	0.04 (0.15)	0.17 (0.64)	0.29 (1.0)	
		2	Sintered	0.60 (17)	1.4 (39)	2.3 (65)	0.24 (0.90)	0.86 (3.2)	1.3 (4.9)	
		7	Sintered	1.4 (39)	2.9 (82)	4.7 (130)	0.40 (1.5)	1.3 (4.9)	2.0 (7.5)	
		15	Sintered	1.2 (34)	2.9 (82)	4.7 (130)	0.50 (1.8)	1.3 (4.9)	2.1 (7.9)	
		60	Sintered	3.1 (87)	5.9 (160)	8.5 (240)	0.90 (3.4)	3.3 (12)	4.6 (17)	
		80	Sintered	4.1 (110)	7.5 (210)	10 (280)	1.2 (4.5)	4.2 (15)	6.1 (23)	
			40, 60, 80, 100, 150, 250, 450	Strainer	4.7 (130)	8.8 (250)	12 (340)	1.7 (6.4)	5.6 (21)	7.8 (29)
	8	0.5	Sintered	0.36 (10)	0.86 (24)	1.6 (45)	0.09 (0.34)	0.40 (1.5)	0.76 (2.8)	
		2	Sintered	1.4 (39)	2.8 (79)	4.0 (110)	0.26 (0.98)	1.1 (4.1)	1.6 (6.0)	
		7	Sintered	1.8 (51)	4.2 (119)	6.8 (190)	0.64 (2.4)	2.2 (8.3)	3.5 (13)	
		15	Sintered	1.8 (51)	4.9 (130)	7.9 (220)	0.84 (3.1)	2.6 (9.8)	4.1 (15)	
		60	Sintered	5.1 (140)	10 (280)	15 (420)	2.0 (7.5)	6.7 (25)	10 (37)	
80		Sintered	6.1 (170)	11 (310)	16 (450)	2.3 (8.7)	7.6 (28)	11 (41)		
		40, 60, 80, 100, 150, 250, 450	Strainer	7.2 (200)	14 (390)	20 (560)	4.8 (18)	15 (56)	19 (71)	
FW	-	0.5	Sintered	0.04 (1.1)	0.06 (1.7)	0.12 (3.4)	0.01 (0.03)	0.04 (0.15)	0.12 (0.45)	
		2	Strainer	5.6 (150)	10 (280)	14 (390)	1.7 (6.4)	5.5 (20)	8.3 (31)	
		7	Strainer				3.5 (13)	11 (41)	14 (52)	
		15	Strainer				4.5 (17)	14 (52)	18 (68)	

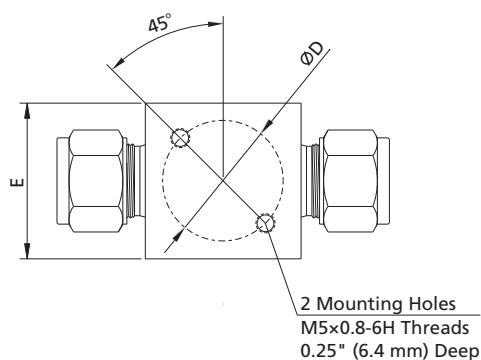
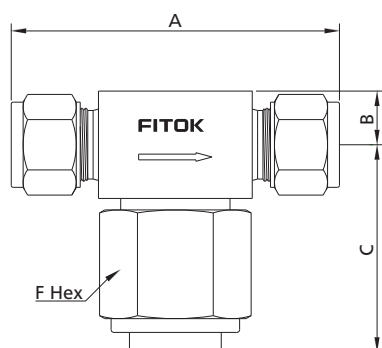
Note: Outlet is discharged to the atmosphere.

Series	Filtration Area Type	Element Nominal Pore Size μm	Element Type	Inlet Pressure, psig (bar)		
				0.14 (2)	0.34 (5)	0.55 (8)
				Air Flow, std m ³ /h		
FH	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

FT Series

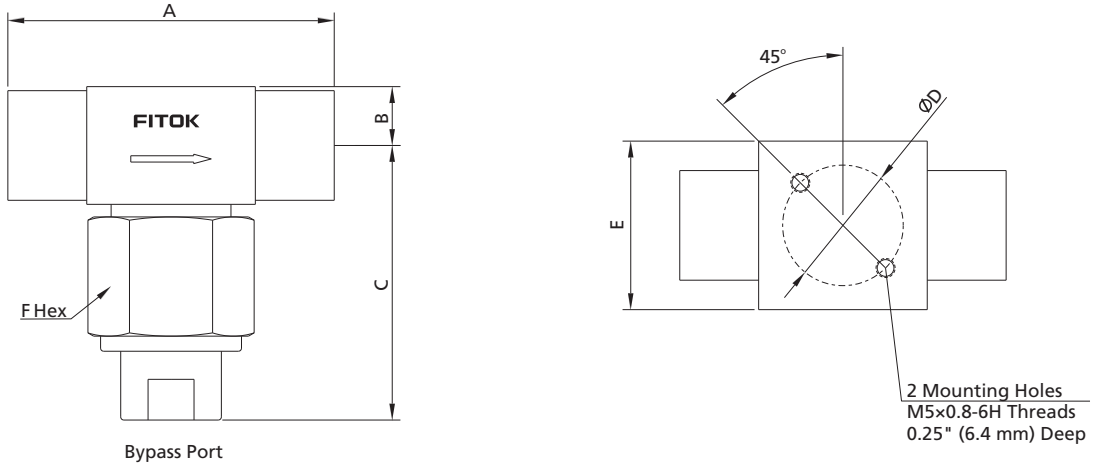


Basic Ordering Number	Connection Type and Size		Filtration Area Type	Dimensions, in. (mm)					
	Inlet	Outlet		A	B	C	ØD	E	F
FT□□-FL2-	1/8" FITOK	1/8" FITOK	4	2.27 (57.7)	0.38 (9.7)	1.49 (37.8)	1.00 (25.4)	1.00 (25.4)	1 (25.4)
FT□□-FL4-	1/4" FITOK	1/4" FITOK	4	2.47 (62.7)					
FT□□-FL6-	3/8" FITOK	3/8" FITOK	8	2.84 (72.1)	0.46 (11.7)	1.74 (44.2)	1.13 (28.7)	1.13 (28.7)	1 1/8 (28.6)
FT□□-FL8-	1/2" FITOK	1/2" FITOK	8	3.04 (77.2)					
FT□□-ML6-	6 mm FITOK	6 mm FITOK	4	2.46 (62.5)	0.38 (9.7)	1.49 (37.8)	1.00 (25.4)	1.00 (25.4)	1 (25.4)
FT□□-ML8-	8 mm FITOK	8 mm FITOK	8	2.84 (72.1)					
FT□□-ML10-	10 mm FITOK	10 mm FITOK	8	2.86 (72.6)	0.46 (11.7)	1.74 (44.2)	1.13 (28.7)	1.13 (28.7)	1 1/8 (28.6)
FT□□-ML12-	12 mm FITOK	12 mm FITOK	8	3.04 (77.2)					
FT□□-TS4-	1/4" Tube Socket Weld	1/4" Tube Socket Weld	4	1.68 (42.7)	0.38 (9.7)	1.49 (37.8)	1.00 (25.4)	1.00 (25.4)	1 (25.4)
FT□□-TS6-	3/8" Tube Socket Weld	3/8" Tube Socket Weld	4						
FT□□-TB4-	1/4"×0.065" Tube Butt Weld	1/4"×0.065" Tube Butt Weld	4						
FT□□-TB6-	3/8"×0.095" Tube Butt Weld	3/8"×0.095" Tube Butt Weld	4						
FT□□-FNS2-	1/8 Female NPT	1/8 Female NPT	4	2.00 (50.8)	2.13 (54.1)				
FT□□-FNS4-	1/4 Female NPT	1/4 Female NPT	4						
FT□□-NS4-	1/4 Male NPT	1/4 Male NPT	4						
FT□□-NS6-	3/8 Male NPT	3/8 Male NPT	8	2.38 (60.5)	0.46 (11.7)	1.74 (44.2)	1.13 (28.7)	1.13 (28.7)	1 1/8 (28.6)
FT□□-NS8-	1/2 Male NPT	1/2 Male NPT	8	2.75 (69.9)					
FT□□-FR4-	1/4 Male FR	1/4 Male FR	4	2.30 (58.4)	0.38 (9.7)	1.49 (37.8)	1.00 (25.4)	1.00 (25.4)	1 (25.4)
FT□□-FR8-	1/2 Male FR	1/2 Male FR	8	2.55 (64.8)	0.46 (11.7)	1.74 (44.2)	1.13 (28.7)	1.13 (28.7)	1 1/8 (28.6)

Mounting holes not available with 1/4 female NPT end connections

B-188 Filters

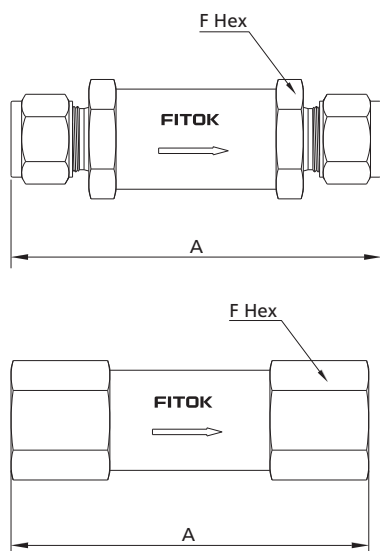
FB Series



Basic Ordering Number	Connection Type and Size		Filtration Area Type	Dimensions, in. (mm)						
	Inlet	Outlet		A	B	C	ØD	E	F	Bypass Port
FB□□-FL2-	1/8" FITOK	1/8" FITOK	4	2.27 (57.7)	0.38 (9.7)	1.98 (50.2)	1.00 (25.4)	1.00 (25.4)	1 (25.4)	FL2
FB□□-FL4-	1/4" FITOK	1/4" FITOK	4	2.47 (62.7)		2.44 (61.9)				FL4
FB□□-FL6-	3/8" FITOK	3/8" FITOK	8	2.84 (72.1)	0.46 (11.7)	2.74 (69.1)	1.13 (28.7)	1.13 (28.7)	1 1/8 (28.6)	FL6
FB□□-FL8-	1/2" FITOK	1/2" FITOK	8	3.04 (77.2)		2.96 (74.2)				FL8
FB□□-ML6-	6 mm FITOK	6 mm FITOK	4	2.46 (62.5)	0.38 (9.7)	2.44 (61.9)	1.00 (25.4)	1.00 (25.4)	1 (25.4)	FL4
FB□□-ML8-	8 mm FITOK	8 mm FITOK	8	2.84 (72.1)	0.46 (11.7)	2.74 (69.1)	1.13 (28.7)	1.13 (28.7)	1 1/8 (28.6)	FL6
FB□□-ML10-	10 mm FITOK	10 mm FITOK	8	2.86 (72.6)		2.96 (74.2)				FL8
FB□□-ML12-	12 mm FITOK	12 mm FITOK	8	3.04 (77.2)						
FB□□-TS4-	1/4" Tube Socket Weld	1/4" Tube Socket Weld	4	1.68 (42.7)	0.38 (9.7)	1.83 (56.4)	1.00 (25.4)	1.00 (25.4)	1 (25.4)	TS4
FB□□-TS6-	3/8" Tube Socket Weld	3/8" Tube Socket Weld	4							
FB□□-TB4-	1/4"×0.065" Tube Butt Weld	1/4"×0.065" Tube Butt Weld	4							
FB□□-TB6-	3/8"×0.095" Tube Butt Weld	3/8"×0.095" Tube Butt Weld	4							
FB□□-FNS2-	1/8 Female NPT	1/8 Female NPT	4	2.00 (50.8)	0.46 (11.7)	2.00 (50.8)	1.13 (28.7)	1.13 (28.7)	1 1/8 (28.6)	FNS2
FB□□-FNS4-	1/4 Female NPT	1/4 Female NPT	4	2.13 (54.1)						
FB□□-NS4-	1/4 Male NPT	1/4 Male NPT	4							
FB□□-NS6-	3/8 Male NPT	3/8 Male NPT	8	2.38 (60.5)	0.46 (11.7)	2.00 (50.8)	1.13 (28.7)	1.13 (28.7)	1 1/8 (28.6)	
FB□□-NS8-	1/2 Male NPT	1/2 Male NPT	8	2.75 (69.9)						
FB□□-FR4-	1/4 Male FR	1/4 Male FR	4	2.38 (60.5)	0.38 (9.7)	2.44 (61.9)	1.00 (25.4)	1.00 (25.4)	1 (25.4)	FL4
FB□□-FR8-	1/2 Male FR	1/2 Male FR	8	2.75 (69.9)	0.46 (11.7)	2.96 (74.2)	1.13 (28.7)	1.13 (28.7)	1 1/8 (28.6)	FL8

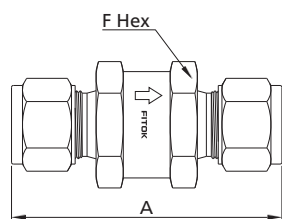
Mounting holes not available with 1/4 female NPT end connections

FI Series



Basic Ordering Number	Connection Type and Size		Filtration Area Type	Dimensions in. (mm)	
	Inlet	Outlet		A	F
FI□□-FL2-	1/8" FITOK	1/8" FITOK	2	2.35 (59.7)	9/16 (14.3)
FI□□-FL4-	1/4" FITOK	1/4" FITOK	4	2.95 (74.9)	3/4 (19.1)
FI□□-FL6-	3/8" FITOK	3/8" FITOK	8	3.21 (81.5)	1 (25.4)
FI□□-FL8-	1/2" FITOK	1/2" FITOK	8	3.49 (88.6)	
FI□□-ML3-	3 mm FITOK	3 mm FITOK	2	2.38 (60.5)	9/16 (14.3)
FI□□-ML6-	6 mm FITOK	6 mm FITOK	4	2.96 (75.2)	3/4 (19.1)
FI□□-FNS2-	1/8 Female NPT	1/8 Female NPT	2	2.16 (54.9)	9/16 (14.3)
FI□□-FNS4-	1/4 Female NPT	1/4 Female NPT	4	2.87 (72.9)	3/4 (19.1)
FI□□-NS2-	1/8 Male NPT	1/8 Male NPT	2	1.88 (47.7)	9/16 (14.3)
FI□□-NS4-	1/4 Male NPT	1/4 Male NPT	4	2.69 (68.3)	3/4 (19.1)
FI□□-FR2-	1/8 Male FR	1/8 Male FR	2	2.79 (70.8)	
FI□□-FR4-	1/4 Male FR	1/4 Male FR	4		
FI□□-FRT2-	1/8 Female BSPT	1/8 Female BSPT	2	2.16 (54.9)	9/16 (14.3)
FI□□-FRT4-	1/4 Female BSPT	1/4 Female BSPT	4	2.87 (72.9)	3/4 (19.1)
FI□□-RT2-	1/8 Male BSPT	1/8 Male BSPT	2	1.88 (47.7)	9/16 (14.3)
FI□□-RT4-	1/4 Male BSPT	1/4 Male BSPT	4	2.69 (68.3)	3/4 (19.1)

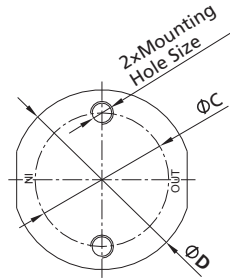
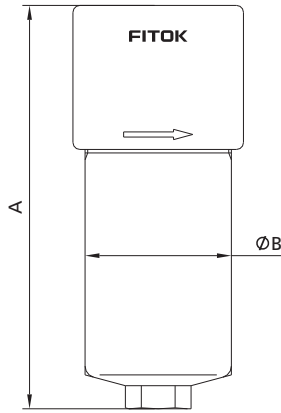
FW Series



Basic Ordering Number	Connection Type and Size		Dimensions in. (mm)	
	Inlet	Outlet	A	F
FW□□-FL4-	1/4" FITOK	1/4" FITOK	2.15 (54.6)	1 (25.4)
FW□□-ML6-	6 mm FITOK	6 mm FITOK		
FW□□-FNS4-	1/4 Female NPT	1/4 Female NPT	1.57 (39.9)	
FW□□-NS4-	1/4 Male NPT	1/4 Male NPT	1.89 (48.0)	
FW□□-FR4-	1/4 Male FR	1/4 Male FR	2.04 (51.8)	

1. For FW series, sintered element available only for 0.5 µm nominal pore size, and strainer element option for the other nominal pore sizes.
2. FITOK means FITOK double ferrule tube fittings, FR means metal gasket seal fittings, TS means fractional tube socket weld, TB means fractional tube butt weld.
3. Sizes and types listed are standard. Other sizes and types are available upon request.
4. Dimensions are shown with FITOK nuts finger-tightened. All dimensions are for reference only and are subject to change. For dimensions not shown above, please contact FITOK Group or our authorized distributors.

FH Series



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

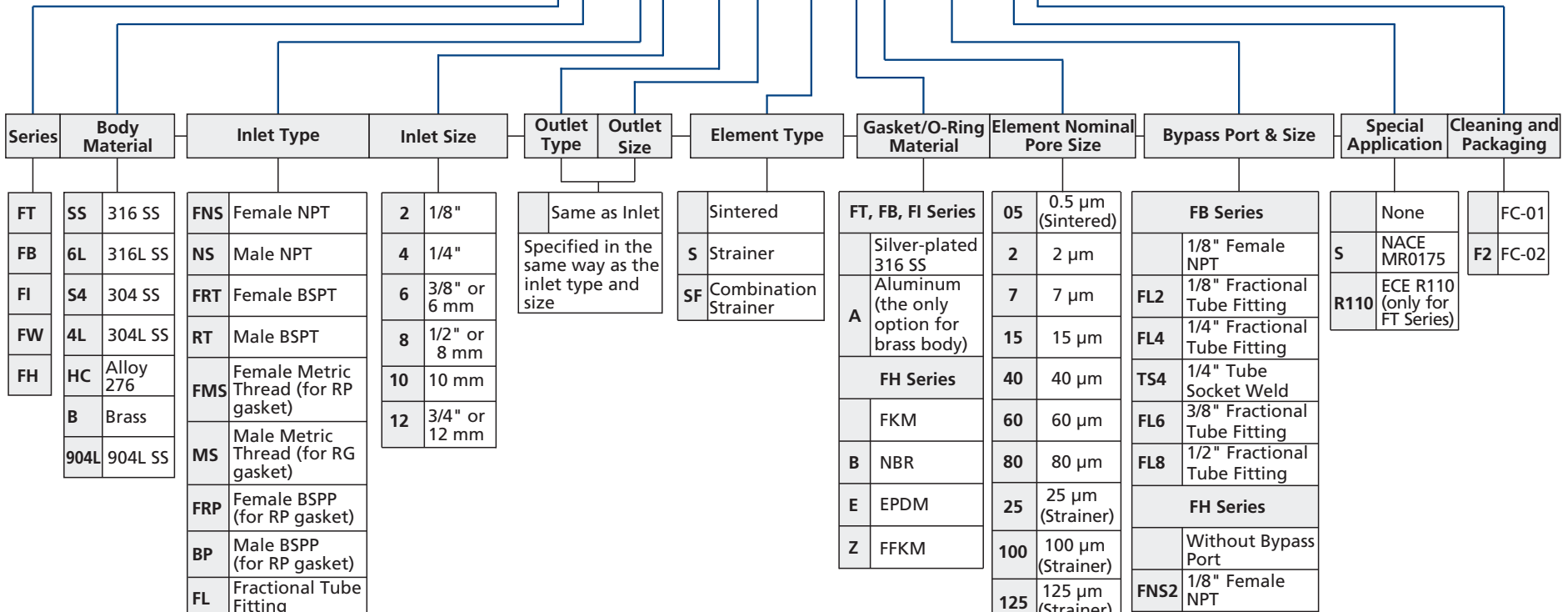
1. FH series only available in strainer element currently.
2. Other connections realizable by adapting.
3. To order a filter with bypass port, add a suffix to the standard filter part number. For example, if the bypass port is 1/4 female NPT, the part number is FH□□-□□-S-□-FNS4.

CNG/NGV Application

FT Series Filters with ECE R110 Type Approval (Class 0) are available.
 Rated temperatures: -40°F to 248°F (-40°C to 120°C)
 Rated pressure within the temperature range: 3370 psig (260 bar)
 To order, add the suffix -R110 to the standard FT series filter ordering number.
 Example: FTSS-FL4-15-R110

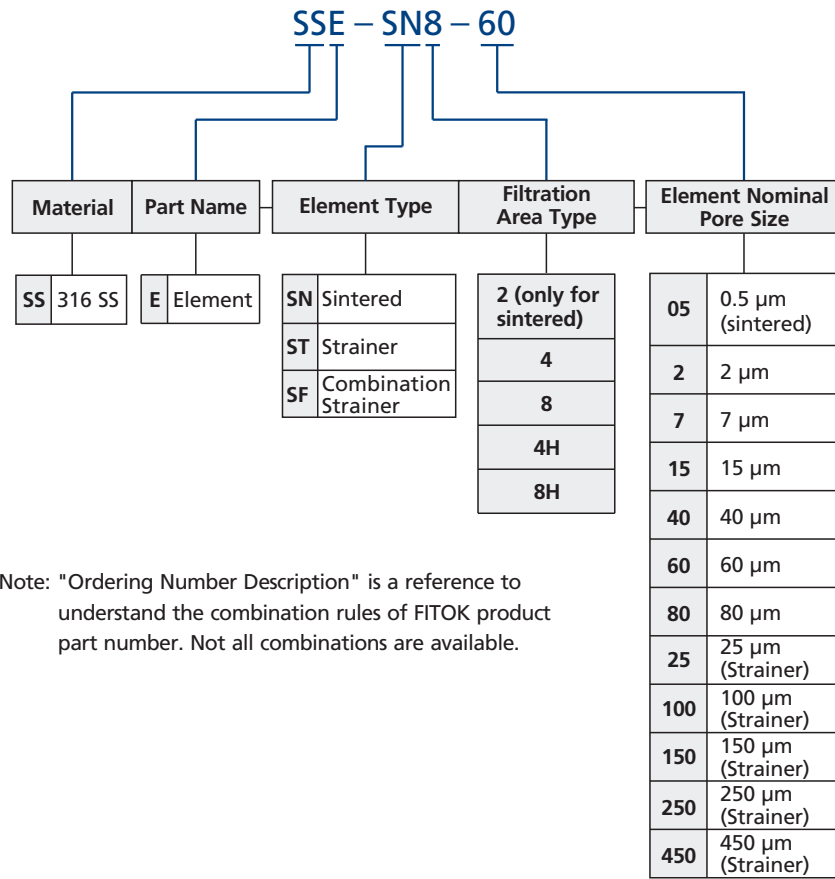
Filters Ordering Number Description

FBB - FL4 - ML10 - S - A15 - FL4 - SF2



Series	Body Material		Inlet Type		Inlet Size		Outlet Type	Outlet Size	Element Type		Gasket/O-Ring Material		Element Nominal Pore Size		Bypass Port & Size		Special Application		Cleaning and Packaging											
FT	SS	316 SS	FNS	Female NPT	2	1/8"	Same as Inlet	Specified in the same way as the inlet type and size	Sintered	FT, FB, FI Series		05	0.5 μm (Sintered)	FB Series		S	None	FC-01	F2	FC-02										
FB	6L	316L SS	NS	Male NPT	4	1/4"				S	Strainer	A	Silver-plated 316 SS	2	2 μm						FL2	1/8" Female NPT								
FI	S4	304 SS	FRT	Female BSPT	6	3/8" or 6 mm	Specified in the same way as the inlet type and size	Specified in the same way as the inlet type and size	Sintered	A		7	7 μm	FL4	1/4" Fractional Tube Fitting	R110	ECE R110 (only for FT Series)	FC-01	FC-02	FC-02										
FW	4L	304L SS	RT	Male BSPT	8	1/2" or 8 mm				SF	Combination Strainer	FH Series		15	15 μm						TS4	1/4" Tube Socket Weld								
FH	HC	Alloy 276	FMS	Female Metric Thread (for RP gasket)	10	10 mm				FKM		40	40 μm	FL6	3/8" Fractional Tube Fitting						Without Bypass Port	FNS2	1/8" Female NPT	FNS4	1/4" Female NPT	TS4	1/4" Tube Socket Weld			
		B	Brass	MS	Male Metric Thread (for RG gasket)	12				3/4" or 12 mm	B	NBR	60	60 μm	FL8													1/2" Fractional Tube Fitting		
	904L	904L SS	FRP	Female BSPP (for RP gasket)	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.				2. 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.	E	EPDM	80	80 μm	FH Series													25	25 μm (Strainer)	
			BP	Male BSPP (for RP gasket)							Z	FFKM	100	100 μm (Strainer)	125													125 μm (Strainer)		
FL	Fractional Tube Fitting	150	150 μm (Strainer)	250			250 μm (Strainer)	450	450 μm (Strainer)		EL	Without filter element																		
TS	Fractional Tube Socket Weld	100	100 μm (Strainer)	125			125 μm (Strainer)	150	150 μm (Strainer)		250	250 μm (Strainer)	450	450 μm (Strainer)	EL	Without filter element														
TB	Fractional Tube Butt Weld	100	100 μm (Strainer)	125			125 μm (Strainer)	150	150 μm (Strainer)		250	250 μm (Strainer)	450	450 μm (Strainer)	EL	Without filter element														
FR	Male FR Fitting	100	100 μm (Strainer)	125			125 μm (Strainer)	150	150 μm (Strainer)		250	250 μm (Strainer)	450	450 μm (Strainer)	EL	Without filter element														

Elements Ordering Number Description



info@fitok.com
www.fitok.com

FK-IC-GV-13-EN-231214