

Filters

FT, FB, FI and FW Series



FITOK
Valves and Fittings

www.fitokgroup.com

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

Tee-type Filters

FT Series

- ⊙ Filter element replaceable without removing body from system
- ⊙ 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: 6000 psig (414 bar)
- ⊙ Working temperature: -20°F to 900°F (-28°C to 482°C)
- ⊙ Body materials: 316 SS, 316L SS, 304 SS, 304L SS, 904L SS and Brass
- ⊙ Variety of end connections available

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: 6000 psig (414 bar)
- ⊙ Working temperature: -20°F to 900°F (-28°C to 482°C)
- ⊙ Body materials: 316 SS, 316L SS, 304 SS, 304L SS, 904L SS and Brass
- ⊙ Variety of end connections available

In-line Filters

FI Series

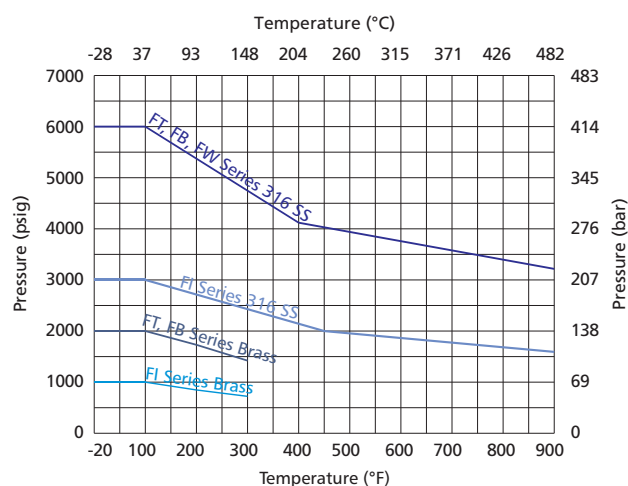
- ⊙ Compact and space-saving design
- ⊙ Nominal pore sizes for sintered element: 0.5, 2, 7, 15, 40, 60 and 80 μm
- ⊙ Nominal pore sizes for strainer element: 100, 150, 250 and 450 μm
- ⊙ Working pressure up to: 3000 psig (207 bar)
- ⊙ Working temperature: -20°F to 900°F (-28°C to 482°C)
- ⊙ Body materials: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

All-welded In-line Filters

FW Series

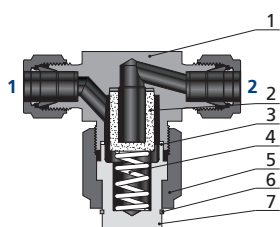
- ⊙ Large filtration area and high flow coefficient
- ⊙ All-welded construction for elimination of leakage
- ⊙ Easy cleaning of filters by backflushing
- ⊙ Full-penetration weld between body and element
- ⊙ Nominal pore sizes for sintered element: 0.5, 2, 7, 15, 40, 60 and 80 μm
- ⊙ Working pressure up to: 6000 psig (414 bar)
- ⊙ Working temperature: -20°F to 900°F (-28°C to 482°C)
- ⊙ Body materials: 316 SS, 316L SS, 304 SS, 304L SS and 904L SS
- ⊙ Variety of end connections available

Pressure vs. Temperature

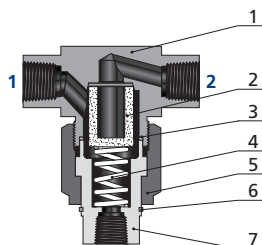


Contact the authorized representative of FITOK Group for curve graph of other materials.

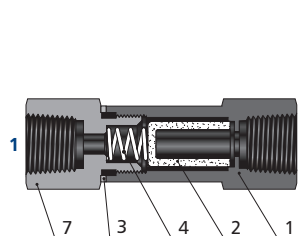
FT Series



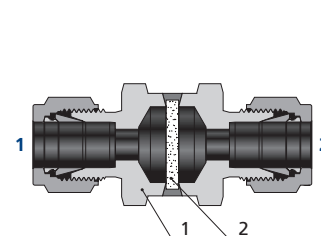
FB Series



FI Series



FW Series



Standard Materials of Construction

Component		Material Grade/ASTM Specification	
		316 SS	Brass
1	Body	316 SS/A182	Brass C36000/B16
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/A276	C36000/B16
6	Backup Ring	Stainless steel	
7	Bonnet	316 SS/A479	C36000/B16

1. FW Series filters not available in brass

2. Lubricants: molybdenum disulfide-based and silicone-based

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

Series	Maximum Differential Pressure psig (bar)										
	0.5 micron	2 micron	7 micron	15 micron	40 micron	60 micron	80 micron	100 micron	150 micron	250 micron	450 micron
FT, FB, FI	2250 (155.2)	2250 (155.2)	1950 (134.5)	1750 (120.3)	1150 (79.3)	1150 (79.3)	1000 (69.0)	1000 (69.0)	1000 (69.0)	1000 (69.0)	1000 (69.0)
FW	600 (41.4)	100 (6.9)	100 (6.9)	100 (6.9)	—	—	—	—	—	—	—

Elements

Nominal Pore Size μm	Pore Size Range μm	Element Type
0.5	0.5 to 2	Sintered
2	1 to 4	
7	5 to 10	
15	11 to 25	
40	35 to 53	
60	50 to 75	
80	70 to 95	
100	—	Strainer
150	—	
250	—	
450	—	

Filtration Area

Series	Orifice in. (mm)	Filtration Area in. ² (mm ²)	
		Sintered	Strainer
2FT, 2FB	0.09 (2.0)	1.30 (830)	1.00 (640)
4FT, 4FB	0.17 (4.4)	1.30 (830)	1.00 (640)
6FT, 6FB	0.21 (5.4)	2.00 (1280)	1.70 (1090)
8FT, 8FB	0.25 (6.4)	2.00 (1280)	1.70 (1090)
2FI	0.09 (2.4)	0.55 (350)	—
4FI	0.19 (4.8)	1.30 (830)	1.00 (640)
6FI	0.28 (7.1)	2.00 (1280)	1.70 (1090)
8FI	0.41 (10.3)	2.00 (1280)	1.70 (1090)
4FW	0.19 (4.8)	0.44 (283)	—

Flow Data at 70°F (20°C)

FT, FB Series

Pressure Drop to Atmosphere $\triangle p$ psig (bar)	2FT and 2FB Series		4FT and 4FB Series		6FT, 6FB and 8FT, 8FB Series	
	Water Flow, U.S. gal (L/min)	Air Flow, std ft ³ /min (std L/min)	Water Flow, U.S. gal (L/min)	Air Flow, std ft ³ /min (std L/min)	Water Flow, U.S. gal (L/min)	Air Flow, std ft ³ /min (std L/min)
	0.5 Micron Cv = 0.035		0.5 Micron Cv = 0.035		0.5 Micron Cv = 0.052	
5 (0.34)	0.07 (0.26)	0.40 (11.3)	0.07 (0.26)	0.40 (11.3)	0.11 (0.43)	0.47 (13.3)
10 (0.69)	0.11 (0.42)	0.50 (14.2)	0.11 (0.42)	0.50 (14.2)	0.16 (0.62)	0.74 (21.0)
50 (3.45)	0.25 (0.95)	1.33 (37.7)	0.25 (0.95)	1.33 (37.7)	0.36 (1.38)	1.96 (55.5)
	2 Micron Cv = 0.068		2 Micron Cv = 0.072		2 Micron Cv = 0.096	
5 (0.34)	0.15 (0.56)	0.77 (21.8)	0.16 (0.60)	0.82 (23.2)	0.21 (0.81)	1.09 (30.9)
10 (0.69)	0.22 (0.83)	0.97 (27.5)	0.22 (0.83)	1.02 (28.9)	0.30 (1.14)	1.37 (38.8)
50 (3.45)	0.48 (1.81)	2.58 (73.1)	0.51 (1.93)	2.72 (77.0)	0.67 (2.53)	3.64 (103.1)
	7 Micron Cv = 0.158		7 Micron Cv = 0.165		7 Micron Cv = 0.35	
5 (0.34)	0.35 (1.32)	1.80 (51.0)	0.37 (1.40)	1.88 (53.2)	0.78 (2.96)	4.00 (113.3)
10 (0.69)	0.50 (1.89)	2.25 (63.7)	0.52 (1.96)	2.35 (66.5)	1.10 (4.18)	5.00 (141.6)
50 (3.45)	1.12 (4.22)	5.98 (169.3)	1.16 (4.38)	6.25 (177.0)	2.47 (9.35)	13.30 (376.6)
	15 Micron Cv = 0.19		15 Micron Cv = 0.20		15 Micron Cv = 0.37	
5 (0.34)	0.42 (1.61)	2.16 (61.2)	0.44 (1.66)	2.28 (64.6)	0.82 (3.12)	4.20 (118.9)
10 (0.69)	0.60 (2.27)	2.71 (76.7)	0.63 (2.38)	2.85 (80.7)	0.82 (3.12)	5.28 (149.5)
50 (3.45)	1.34 (5.06)	7.20 (203.9)	1.41 (5.33)	7.58 (214.6)	2.61 (9.88)	14.00 (396.4)
	40 Micron Cv = 0.23		40 Micron Cv = 0.24		40 Micron Cv = 0.42	
5 (0.34)	0.51 (1.94)	2.62 (74.2)	0.54 (2.04)	2.74 (77.6)	0.93 (3.54)	4.80 (135.9)
10 (0.69)	0.73 (2.76)	3.28 (96.8)	0.76 (2.87)	3.42 (96.8)	1.32 (5.02)	6.00 (169.9)
50 (3.45)	1.63 (6.16)	8.74 (247.5)	1.70 (6.42)	9.11 (258.0)	2.96 (11.20)	15.90 (450.2)
	60 Micron Cv = 0.24		60 Micron Cv = 0.25		60 Micron Cv = 0.45	
5 (0.34)	0.54 (2.04)	2.74 (77.6)	0.56 (2.11)	2.85 (80.7)	1.00 (3.78)	5.10 (144.4)
10 (0.69)	0.76 (2.87)	3.42 (96.8)	0.79 (2.98)	3.57 (101.1)	1.42 (5.37)	6.40 (181.2)
50 (3.45)	1.70 (6.42)	9.11 (258.0)	1.77 (6.70)	9.49 (268.7)	3.18 (12.00)	17.00 (481.4)
	80 Micron Cv = 0.25		80 Micron Cv = 0.26		80 Micron Cv = 0.67	
5 (0.34)	0.56 (2.11)	2.85 (80.7)	0.58 (2.19)	2.96 (83.8)	1.49 (5.66)	7.64 (216.3)
10 (0.69)	0.79 (2.98)	3.57 (101.1)	0.82 (3.10)	3.70 (104.8)	2.11 (5.89)	9.55 (270.4)
50 (3.45)	1.77 (6.70)	9.49 (268.7)	1.84 (6.95)	9.80 (277.5)	4.73 (17.90)	25.40 (719.2)
	100 Micron Cv = 0.27		100 Micron Cv = 0.28		100 Micron Cv = 0.72	
5 (0.34)	0.60 (2.27)	3.08 (87.2)	0.62 (2.34)	3.20 (90.6)	1.61 (6.08)	8.20 (232.2)
10 (0.69)	0.85 (3.21)	3.85 (109.0)	0.88 (3.30)	4.00 (113.2)	2.27 (8.61)	10.20 (288.8)
50 (3.45)	1.91 (7.22)	10.20 (288.8)	1.98 (7.48)	5.30 (150.1)	5.09 (19.20)	27.20 (770.2)
	150, 250, 450 Micron Cv = 0.55		150, 250, 450 Micron Cv = 0.58		150, 250, 450 Micron Cv = 0.82	
5 (0.34)	1.23 (4.65)	6.28 (177.8)	1.30 (4.91)	6.60 (186.9)	1.83 (6.93)	9.36 (265.0)
10 (0.69)	1.74 (6.58)	7.85 (222.3)	1.83 (6.91)	8.20 (232.2)	2.59 (9.80)	11.70 (331.3)
50 (3.45)	3.89 (14.70)	20.80 (589.0)	4.10 (15.50)	21.90 (620.1)	5.79 (21.90)	27.20 (770.2)

FI Series

Pressure Drop to Atmosphere ≤ p psig (bar)	2FI Series		4FI Series		6FI, 8FI Series	
	Water Flow, U.S. gal (L/min)	Air Flow, std ft ³ /min (std L/min)	Water Flow, U.S. gal (L/min)	Air Flow, std ft ³ /min (std L/min)	Water Flow, U.S. gal (L/min)	Air Flow, std ft ³ /min (std L/min)
	0.5 Micron Cv = 0.008		0.5 Micron Cv = 0.038		0.5 Micron Cv = 0.187	
5 (0.34)	0.01 (0.03)	0.09 (2.6)	0.08 (0.30)	0.42 (11.9)	0.41 (1.54)	2.09 (59.2)
10 (0.69)	0.02 (0.07)	0.11 (3.1)	0.12 (0.45)	0.52 (14.7)	0.59 (2.23)	2.56 (72.5)
50 (3.45)	0.05 (0.18)	0.30 (8.5)	0.26 (0.98)	1.42 (40.2)	1.32 (4.98)	6.99 (197.9)
	2 Micron Cv = 0.022		2 Micron Cv = 0.106		2 Micron Cv = 0.374	
5 (0.34)	0.04 (0.15)	0.24 (6.8)	0.23 (0.86)	1.18 (33.4)	0.83 (3.13)	4.20 (118.9)
10 (0.69)	0.06 (0.22)	0.30 (8.5)	0.42 (1.58)	1.45 (41.1)	1.18 (4.46)	5.13 (145.3)
50 (3.45)	0.15 (0.56)	0.82 (23.2)	0.74 (2.79)	3.96 (112.1)	2.64 (9.97)	14.00 (396.4)
	7 Micron Cv = 0.028		7 Micron Cv = 0.112		7 Micron Cv = 0.406	
5 (0.34)	0.06 (0.22)	0.31 (8.7)	0.25 (0.94)	1.26 (35.7)	0.90 (3.40)	4.56 (129.1)
10 (0.69)	0.08 (0.30)	0.38 (10.8)	0.35 (1.32)	1.54 (43.6)	1.28 (4.83)	5.57 (157.7)
50 (3.45)	0.19 (0.71)	1.05 (29.7)	0.79 (2.98)	4.20 (118.9)	2.87 (10.80)	15.20 (430.4)
	15 Micron Cv = 0.096		15 Micron Cv = 0.183		15 Micron Cv = 0.515	
5 (0.34)	0.21 (0.79)	1.08 (30.6)	0.40 (1.51)	2.05 (58.0)	1.15 (4.37)	5.78 (163.7)
10 (0.69)	0.30 (1.13)	1.32 (37.4)	0.57 (2.15)	2.50 (70.8)	1.62 (6.12)	7.07 (200.2)
50 (3.45)	0.67 (2.53)	3.60 (101.9)	1.29 (4.87)	6.80 (192.6)	3.64 (13.70)	19.20 (543.7)
	40 Micron Cv = 0.143		40 Micron Cv = 0.294		40 Micron Cv = 0.678	
5 (0.34)	0.32 (1.20)	1.60 (43.7)	0.65 (2.45)	3.30 (93.4)	1.51 (5.70)	7.72 (218.6)
10 (0.69)	0.45 (1.70)	1.95 (55.2)	0.92 (3.47)	4.03 (114.1)	2.14 (8.08)	9.43 (267.0)
50 (3.45)	1.01 (3.81)	5.34 (151.2)	2.07 (7.82)	11.00 (311.5)	4.79 (18.10)	25.70 (727.7)
	60 Micron Cv = 0.168		60 Micron Cv = 0.325		60 Micron Cv = 0.874	
5 (0.34)	0.37 (1.39)	1.89 (53.5)	0.72 (2.72)	3.57 (101.0)	1.95 (7.37)	9.81 (277.8)
10 (0.69)	0.53 (2.00)	2.31 (65.4)	1.02 (3.85)	4.46 (126.3)	2.76 (10.40)	11.90 (337.0)
50 (3.45)	1.18 (4.46)	6.30 (178.4)	2.29 (8.86)	12.10 (342.6)	6.18 (23.30)	32.70 (926.0)
	80 Micron Cv = 0.198		80 Micron Cv = 0.473		80 Micron Cv = 1.106	
5 (0.34)	0.44 (1.66)	2.22 (62.3)	1.05 (3.96)	5.31 (150.4)	2.47 (9.33)	12.40 (351.1)
10 (0.69)	0.62 (2.34)	2.71 (76.7)	1.49 (5.63)	6.49 (183.8)	3.49 (13.10)	15.10 (427.6)
50 (3.45)	1.40 (5.29)	7.41 (209.8)	3.34 (12.60)	17.70 (501.2)	7.82 (29.50)	41.40 (1172.3)
	100 Micron Cv = 0.220		100 Micron Cv = 0.565		100 Micron Cv = 1.218	
5 (0.34)	0.49 (1.85)	2.47 (69.9)	1.26 (4.76)	6.35 (179.8)	2.72 (10.20)	13.60 (385.1)
10 (0.69)	0.69 (2.60)	3.02 (85.5)	1.78 (6.72)	7.76 (219.7)	3.85 (14.50)	16.70 (472.9)
50 (3.45)	1.55 (5.85)	8.25 (233.6)	3.99 (15.00)	21.10 (597.5)	8.61 (32.50)	45.60 (1291.2)
	150, 250, 450 Micron Cv = 0.264		150, 250, 450 Micron Cv = 0.780		150, 250, 450 Micron Cv = 2.413	
5 (0.34)	0.59 (2.23)	2.97 (84.1)	1.74 (6.57)	8.70 (246.3)	5.39 (20.30)	27.00 (764.6)
10 (0.69)	0.83 (3.13)	3.63 (102.8)	2.46 (9.29)	10.70 (303.0)	7.63 (28.80)	33.10 (937.3)
50 (3.45)	1.86 (7.03)	9.90 (280.3)	5.51 (20.80)	29.20 (826.9)	17.00 (64.20)	90.30 (2557.0)

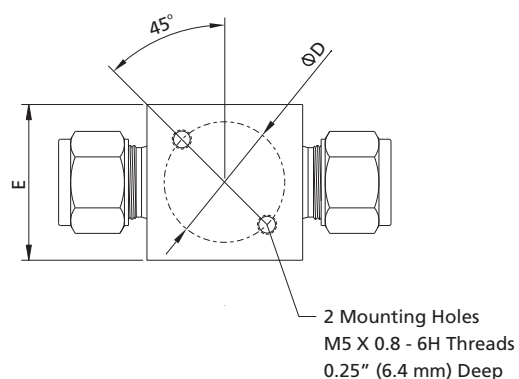
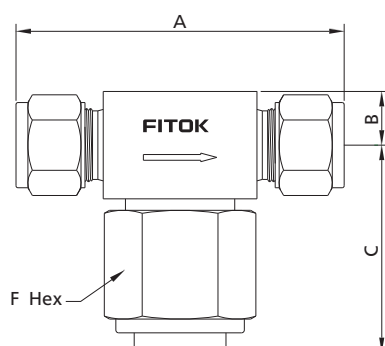
5 Filters

FW Series

Pressure Drop to Atmosphere Δ p psig (bar)	4FW Series	
	Water Flow, U.S. gal (L/min)	Air Flow, std ft ³ /min (std L/min)
	0.5 Micron Cv = 0.008	
5 (0.34)	0.01 (0.03)	0.09 (2.6)
10 (0.69)	0.02 (0.07)	0.11 (3.1)
50 (3.45)	0.05 (0.18)	0.30 (8.5)
	2 Micron Cv = 0.42	
5 (0.34)	0.93 (3.50)	4.72 (133.7)
10 (0.69)	1.32 (4.98)	5.77 (163.4)
50 (3.45)	2.96 (11.10)	15.70 (444.6)
	7 Micron Cv = 0.45	
5 (0.34)	1.00 (3.78)	5.04 (142.7)
10 (0.69)	1.42 (5.36)	6.16 (174.4)
50 (3.45)	3.18 (12.00)	16.80 (475.7)
	15 Micron Cv = 0.76	
5 (0.34)	1.69 (6.22)	8.55 (242.1)
10 (0.69)	2.40 (9.07)	10.40 (294.5)
50 (3.45)	5.37 (20.30)	28.50 (807.0)

Dimensions

FT Series

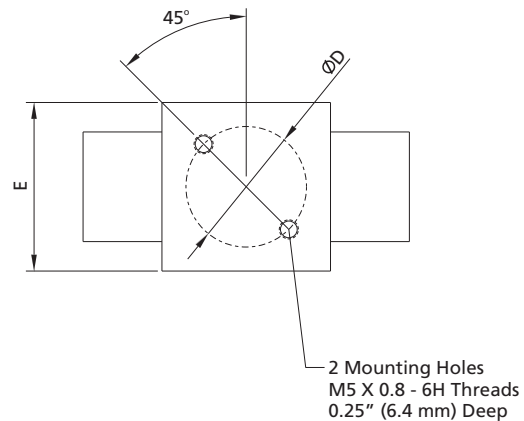
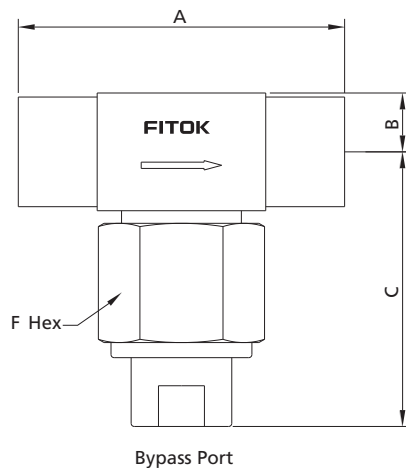


Basic Ordering Number	Connection Type and Size		Element Series	Filter Series	Dimension, in. (mm)										
	Inlet	Outlet			A	B	C	ØD	E	F					
FT□□-FL2-	1/8" FITOK	1/8" FITOK	4	4FT	2.27 (57.7)	0.38 (9.7)	1.49 (37.8)	1.00 (25.4)	1.00 (25.4)	1 (25.4)					
FT□□-FL4-	1/4" FITOK	1/4" FITOK	4	4FT	2.47 (62.7)										
FT□□-FL6-	3/8" FITOK	3/8" FITOK	8	8FT	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	8FT	3.04 (77.2)										
FT□□-ML6-	6 mm FITOK	6 mm FITOK	4	4FT	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	8FT	2.84 (72.1)										
FT□□-ML10-	10 mm FITOK	10 mm FITOK	8	8FT	2.86 (72.6)										
FT□□-ML12-	12 mm FITOK	12 mm FITOK	8	8FT	3.04 (77.2)										
FT□□-TS4-	1/4" TS	1/4" TS	4	4FT	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" TS	3/8" TS	4	4FT											
FT□□-TB4-	1/4" TB	1/4" TB	4	4FT											
FT□□-TB6-	3/8" TB	3/8" TB	4	4FT											
FT□□-FNS2-	1/8 Female NPT	1/8 Female NPT	4	4FT	2.00 (50.8)	0.46 (11.7)	1.74 (44.2)	1.13 (28.7)	1.13 (28.7)	1 1/8 (28.6)					
FT□□-FNS4-	1/4 Female NPT	1/4 Female NPT	4	4FT	2.13 (54.1)										
FT□□-NS4-	1/4 Male NPT	1/4 Male NPT	4	4FT											
FT□□-NS6-	3/8 Male NPT	3/8 Male NPT	8	8FT	2.38 (60.5)										
FT□□-NS8-	1/2 Male NPT	1/2 Male NPT	8	8FT	2.75 (69.9)	0.38 (9.7)	1.49 (37.8)	1.00 (25.4)	1.00 (25.4)	1 (25.4)					
FT□□-FR4-	1/4 Male FR	1/4 Male FR	4	4FT	2.30 (58.4)										
FT□□-FR8-	1/2 Male FR	1/2 Male FR	8	8FT	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

7 Filters

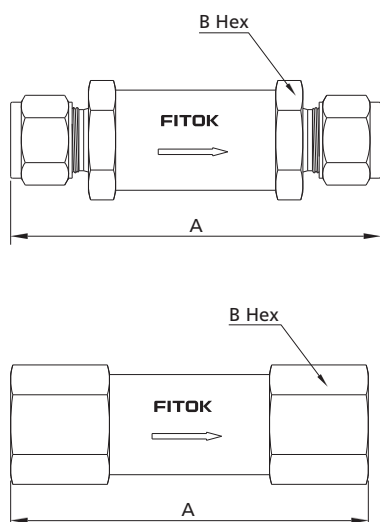
FB Series



Basic Ordering Number	Connection Type and Size		Element Series	Filter Series	Dimension, in. (mm)							
	Inlet	Outlet			A	B	C	ØD	E	F	Bypass Port	
FB□□-FL2-	1/8" FITOK	1/8" FITOK	4	4FB	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	4FB	2.47 (62.7)		2.44 (61.9)				FL4	
FB□□-FL6-	3/8" FITOK	3/8" FITOK	8	8FB	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	8FB	3.04 (77.2)		2.96 (74.2)				FL8	
FB□□-ML6-	6 mm FITOK	6 mm FITOK	4	4FB	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	8FB	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	8FB	2.86 (72.6)		2.96 (74.2)				FL8	
FB□□-ML12-	12 mm FITOK	12 mm FITOK	8	8FB	3.04 (77.2)							
FB□□-TS4-	1/4" TS	1/4" TS	4	4FB	1.68 (42.7)	0.38 (9.7)	1.83 (56.4)	1.00 (25.4)	1.00 (25.4)	1 (25.4)	TB4	
FB□□-TS6-	3/8" TS	3/8" TS	4	4FB								
FB□□-TB4-	1/4" TB	1/4" TB	4	4FB			1.71 (43.4)					FNS2
FB□□-TB6-	3/8" TB	3/8" TB	4	4FB								
FB□□-FNS2-	1/8 Female NPT	1/8 Female NPT	4	4FB	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	4FB	2.13 (54.1)							
FB□□-NS4-	1/4 Male NPT	1/4 Male NPT	4	4FB								
FB□□-NS6-	3/8 Male NPT	3/8 Male NPT	8	8FB	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)	FL4	
FB□□-NS8-	1/2 Male NPT	1/2 Male NPT	8	8FB	2.75 (69.9)							
FB□□-FR4-	1/4 Male FR	1/4 Male FR	4	4FB	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	8FB	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	

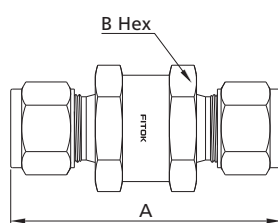
Mounting holes not available with 1/4 female NPT end connections

FI Series



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

FW Series



Basic Ordering Number	Connection Type and Size		Orifice in. (mm)	Dimension, in. (mm)	
	Inlet	Outlet		A	F
FW□□-FL4-	1/4" FITOK	1/4" FITOK	0.19 (4.75)	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	0.45 (11.5)	1.57 (39.9)	
FW□□-NS4-	1/4 Male NPT	1/4 Male NPT	0.28 (7.14)	1.89 (48.0)	
FW□□-FR4-	1/4 Male FR	1/4 Male FR	0.19 (4.75)	2.04 (51.8)	

1. 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.
2. Sizes and types listed are standard. Other sizes and types are available upon request.
3. 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 the authorized representative or FITOK Group.

Filters Part 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		
FT	SS	316 SS	FNS	Female NPT	2	1/8"	Sintered	Silver-plated 316 SS for FT, FB, FI	05	0.5 µm	1/8" Female NPT	No	FC-01	
FB	6L	316L SS	NS	Male NPT	4	1/4"			2	2 µm	FL2		1/8" Fractional Tube Fitting	S NACE MR0175
FI	S4	304 SS	FRT	Female BSPT	6	3/8" or 6 mm	S	PTFE-plated 316 SS for FT, FB, FI	7	7 µm	FL4	1/4" Fractional Tube Fitting	TS4	1/4" Tube Socket Weld
FW	4L	304L SS	RT	Male BSPT	8	1/2" or 8 mm			15	15 µm	40			
	S1	321 SS	FMS	Female Metric Thread (for RP)	10	10 mm	W	No-plated 316 SS for FT, FB, FI	60	60 µm	FL8	1/2" Fractional Tube Fitting		
	B	Brass	MS	Male Metric Thread (for RG)	12	3/4" or 12 mm			80	80 µm	100		100 µm	
	904L	904L SS	FRP	Female BSPP (for RP)	14	14 mm or M14 x 1.5			150	150 µm				
			BP	Male BSPP (for RG)	16	1" or 16 mm			250	250 µm				
			FL	Fractional Tube Fitting	18	18 mm			450	450 µm				
			ML	Metric Tube Fitting	20	1 1/4" or 20 mm or M20 x 1.5								
			TS	Fractional Tube Socket Weld	22	22 mm or M22 x 1.5								
			TB	Fractional Tube Butt Weld	25	25 mm								
			FR	Male FR Fitting										

Note: "Part Number Description " is used for composition rules of FITOK product model, Not suitable for specific product part number selection, not random combinations. If in doubt, please contact FITOK group or authorized agent.

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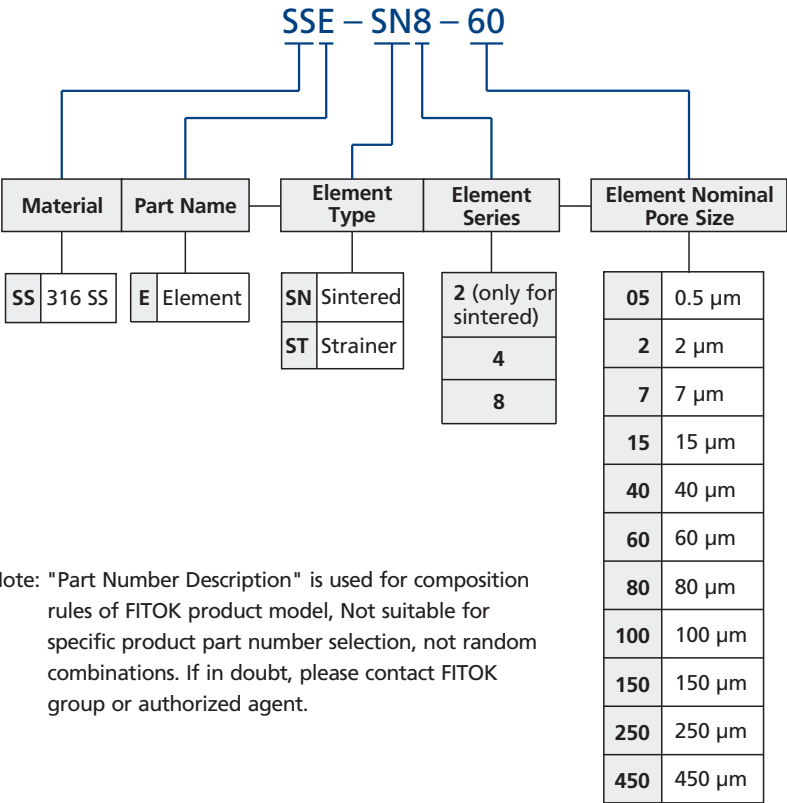
1. Standard thread pitch for metric threads are as follows:

- 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 Part Number Description



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