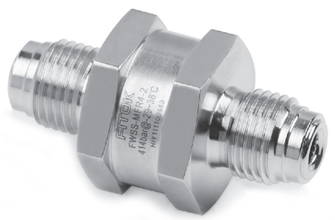
Filters

FT, FB, FI and FW Series



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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
- Maximum working pressure: 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
- Maximum working pressure: 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

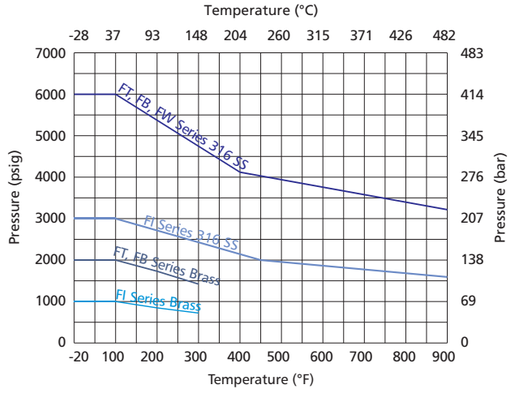
- Compact and space-saving design
- Nominal pore sizes for sintered element: 0.5, 2, 7, 15, 40, 60 and 80 μm
- Nominal pore sizes for strainer element: 100, 150, 250 and 450 μm
- Maximum working pressure: 3000 psig (207 bar)
- Working temperature: -20°F to 900°F (-28°C to 482°C)
- Body materials: 316 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

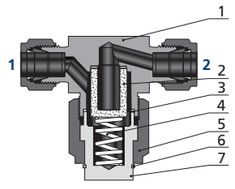
- Large filtration area and high flow coefficient
- All-welded construction for elimination of leakage
- Easy cleaning of filters by backflushing
- Full-penetration weld between body and element
- Nominal pore sizes for sintered element: 0.5, 2, 7, 15, 40, 60 and 80 μm
- Maximum working pressure: 6000 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

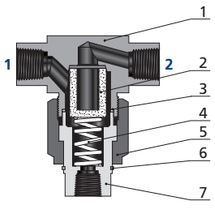


Contact the authorized representative or FITOK Group for curve graph of other materials.

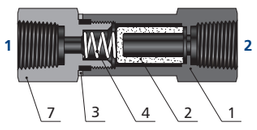
FT Series



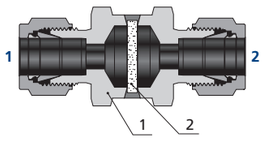
FB Series



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 (68.9)	1000 (68.9)	1000 (68.9)	1000 (68.9)	1000 (68.9)
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 ∆ 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

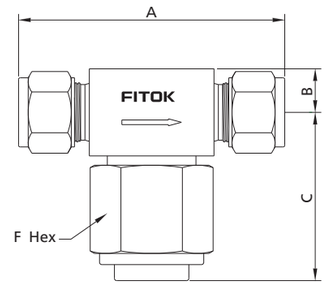
Pressure Drop to Atmosphere ∆ p psig (bar)	2FI Series		4FI Series		6FI, 8FI Series	
	Water Flow, U.S. gal (L/min)	Air Flow, std ft^3/min (std L/min)	Water Flow, U.S. gal (L/min)	Air Flow, std ft^3/min (std L/min)	Water Flow, U.S. gal (L/min)	Air Flow, std ft^3/min (std L/min)
	0.5 Micron Cv = 0.008		**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)

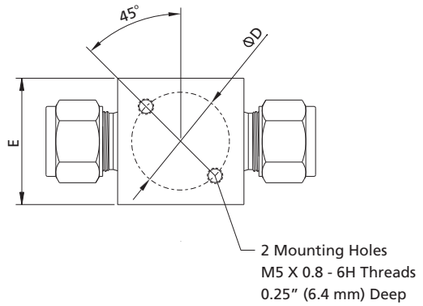
FW Series

Pressure Drop to Atmosphere △ p psig (bar)	4FW Series	
	Water Flow, U.S. gal (L/min)	Air Flow, std ft³/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

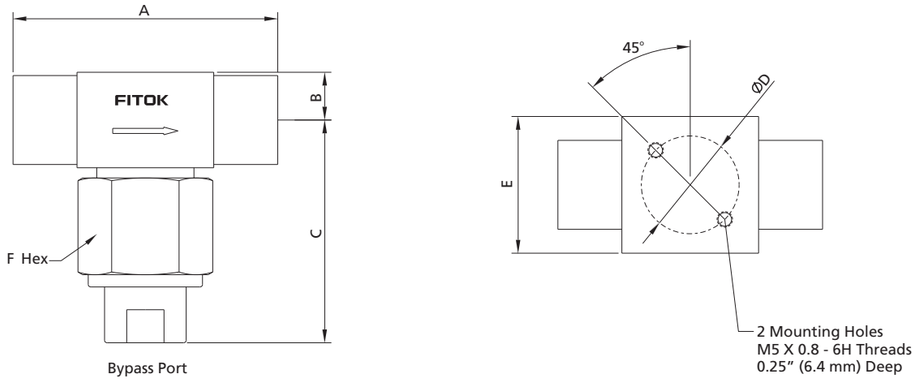




Basic Ordering Number	Connection Type and Size		Element Series	Filter Series	Dimension, in. (mm)					
	Inlet	Outlet			A	B	C	ØD	E	F
FT□□-FL2-	1/8" FITOK	1/8" FITOK	4	4FT	2.27 (57.7)	0.38 (9.7)	1.49 (37.8)	1.00 (25.4)	1.00 (25.4)	1 (25.4)
FT□□-FL4-	1/4" FITOK	1/4" FITOK	4	4FT	2.47 (62.7)					
FT□□-FL6-	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)	0.46 (11.7)	1.74 (44.2)	1.13 (28.7)	1.13 (28.7)	1 1/8 (28.6)
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)					
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)	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	8FT	2.75 (69.9)					
FT□□-FR4-	1/4 Male FR	1/4 Male FR	4	4FT	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	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

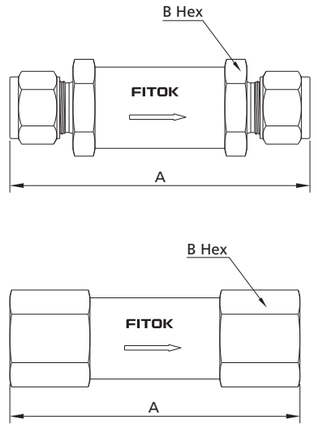
FB Series



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							
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)		1.71 (43.4)				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)	
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

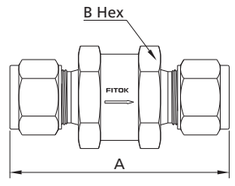
Mounting holes not available with 1/4 female NPT end connections

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"		Same as Inlet		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"	Specified in the same way as the inlet type and size		S Sintered	P PTFE-plated 316 SS for FT, FB, FI	2 2 µm	FL2 1/8" Fractional Tube Fitting	S NACE MR0175	F2 FC-02	
FI	S4 304 SS	FRT Female BSPT	6 3/8" or 6 mm			S Strainer	A Aluminum for FT, FB, FI	7 7 µm	FL4 1/4" Fractional Tube Fitting			
FW	4L 304L SS	RT Male BSPT	8 1/2" or 8 mm				W No-plated 316 SS for FT, FB, FI	15 15 µm	TS4 1/4" Tube Socket Weld			
	S1 321 SS	FMS Female Metric Thread (for RP)	10 10 mm					40 40 µm	FL6 3/8" Fractional Tube Fitting			
	B Brass	MS Male Metric Thread (for RG)	12 3/4" or 12 mm					60 60 µm	FL8 1/2" Fractional Tube Fitting			
	904L 904L SS	FRP Female BSPP (for RP)	14 14 mm or M14 x 1.5					80 80 µm				
		BP Male BSPP (for RG)	16 1" or 16 mm					100 100 µm				
		FL Fractional Tube Fitting	18 18 mm					150 150 µm				
		ML Metric Tube Fitting	20 1 1/4" or 20 mm or M20 x 1.5					250 250 µm				
		TS Fractional Tube Socket Weld	22 22 mm or M22 x 1.5					450 450 µm				
		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 company or authorized agents.

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

SSE – SN8 – 60

Material	Part Name	Element Type	Element Series	Element Nominal Pore Size
SS 316 SS	E Element	SN Sintered	2 (only for sintered)	05 0.5 µm
		ST Strainer	4	2 2 µm
			8	7 7 µm
				15 15 µm
				40 40 µm
				60 60 µm
				80 80 µm
				100 100 µm
				150 150 µm
				250 250 µm
				450 450 µm

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 company or authorized agents.