

Filters

FT, FB, FI and FW Series



FITOK Group

FITOK GmbH (Headquarter)

Sprendlinger Landstr. 115, 63069 Offenbach am Main, Germany
Tel.: +49 69 8900 4498 Fax: +49 69 8900 4495

FITOK, Inc.

13843 North Promenade Blvd., Suite 750, Stafford, Texas 77477, USA
Tel.: +1 281 888 0077 Fax: +1 281 888 0033

FITOK Incorporated

1-4F, Block C, Zone E, Yingtailong Industrial Park, Dalang Street,
Bao'an District, Shenzhen, 518109, China
Tel.: +86 755 2803 2500 Fax: +86 755 2803 2619

FITOK Middle East Oil Equipment Trading LLC

208-209, Makateb Tower, Airport Road, P.O.Box 185412, Deira, Dubai, UAE
Tel.: +971 4 2959 853 Fax: +971 4 2959 854

info@fitokgroup.com
www.fitokgroup.com

FK-IC-GV-11-EN-140821

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
- ⦿ 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

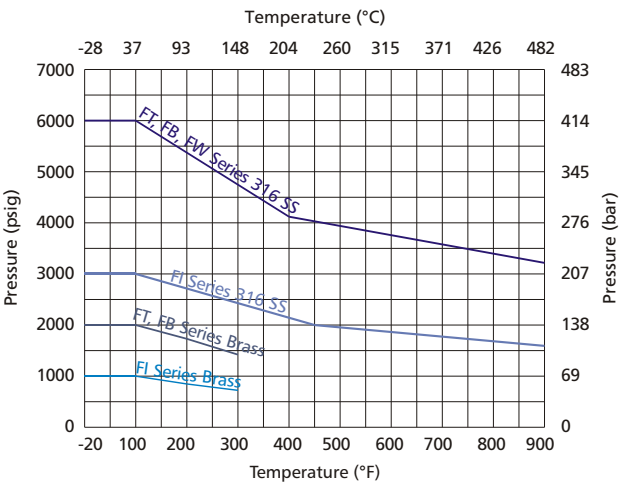
- ⦿ Compact and space-saving design
- ⦿ Nominal pore sizes for sintered element: 0.5, 2, 7, 15, 40, 60 and 80 μm
- ⦿ Nominal pore sizes for strainer element: 100, 150, 250 and 450 μm
- ⦿ Maximum working pressure: 3000 psig (207 bar)
- ⦿ Working temperature: -20°F to 900°F (-28°C to 482°C)
- ⦿ Body materials: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

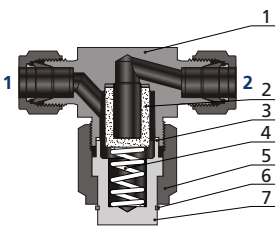
- ⦿ Large filtration area and high flow coefficient
- ⦿ All-welded construction for elimination of leakage
- ⦿ Easy cleaning of filters by backflushing
- ⦿ Full-penetration weld between body and element
- ⦿ Nominal pore sizes for sintered element: 0.5, 2, 7, 15, 40, 60 and 80 μm
- ⦿ Maximum working pressure: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

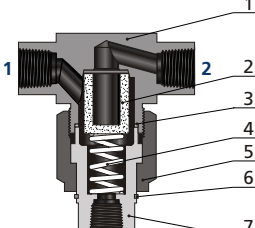


Contact the authorized representative or FITOK Group for curve graph of other materials.

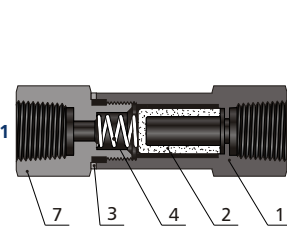
FT Series



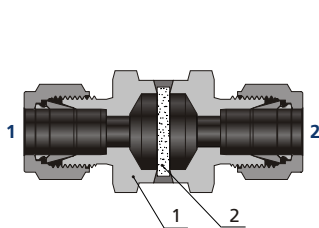
FB Series



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 (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	Strainer
100	—	
150	—	
250	—	
450	—	

Flow Data at 70°F (20°C)

FT, FB Series

Pressure Drop to Atmosphere Δ 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 ft³/min (std L/min)	Water Flow, U.S. gal (L/min)	Air Flow, std ft³/min (std L/min)	Water Flow, U.S. gal (L/min)	Air Flow, std ft³/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)

Filtration Area

Series	Orifice in. (mm)	Filtration Area in.²(mm²)	
		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)	—

FI Series

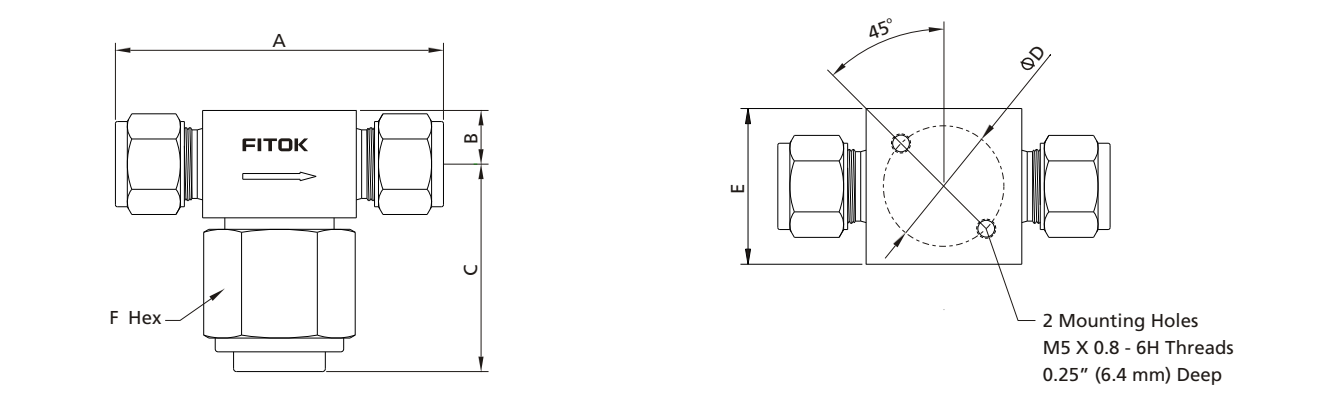
Pressure Drop to Atmosphere Δ p psig (bar)	2FI Series		4FI Series		6FI, 8FI Series	
	Water Flow, U.S. gal (L/min)	Air Flow, std ft³/min (std L/min)	Water Flow, U.S. gal (L/min)	Air Flow, std ft³/min (std L/min)	Water Flow, U.S. gal (L/min)	Air Flow, std ft³/min (std L/min)
	0.5 Micron Cv = 0.008		0.5 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 Δ 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

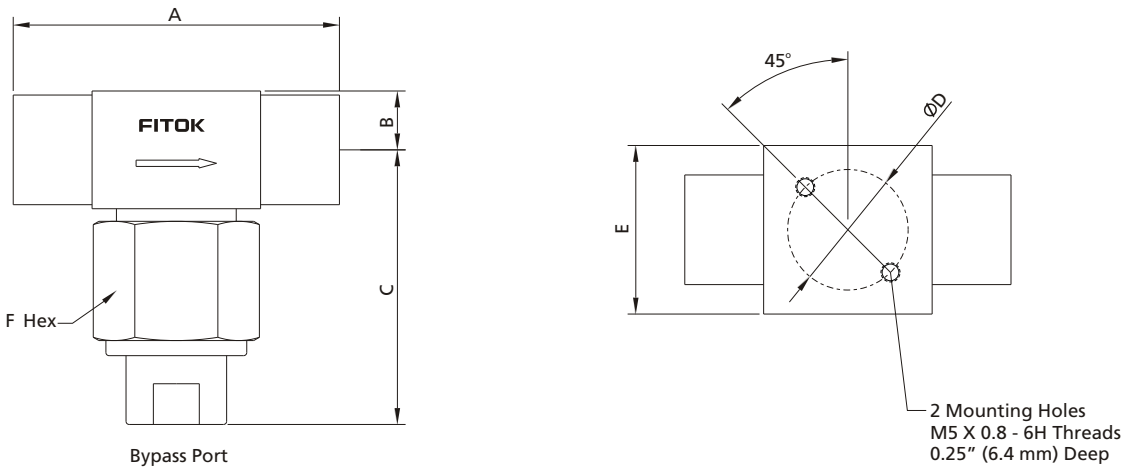
FT Series



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)					
FT□□-ML10-	10 mm FITOK	10 mm FITOK	8	8FT	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	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)	0.46 (11.7)	1.74 (44.2)	1.13 (28.7)	1.13 (28.7)	1 1/8 (28.6)
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

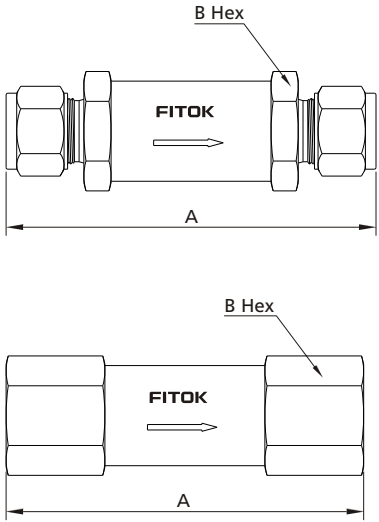
FB Series



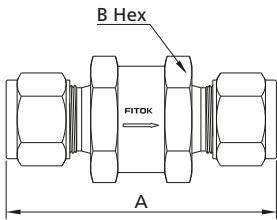
Basic Ordering Number	Connection Type and Size		Element Series	Filter Series	Dimension, in. (mm)							
	Inlet	Outlet			A	B	C	ØD	E	F	Bypass Port	
FB□□-FL2-	1/8" FITOK	1/8" FITOK	4	4FB	2.27 (57.7)	0.38 (9.7)	1.98 (50.2)	1.00 (25.4)	1.00 (25.4)	1 (25.4)	FL2	
FB□□-FL4-	1/4" FITOK	1/4" FITOK	4	4FB	2.47 (62.7)		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	2.13 (54.1)	0.38 (9.7)	1.71 (43.4)	1.13 (28.7)	1.13 (28.7)	1 1/8 (28.6)	FNS2	
FB□□-FNS2-	1/8 Female NPT	1/8 Female NPT	4	4FB								2.00 (50.8)
FB□□-FNS4-	1/4 Female NPT	1/4 Female NPT	4	4FB								
FB□□-NS4-	1/4 Male NPT	1/4 Male NPT	4	4FB	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□□-NS6-	3/8 Male NPT	3/8 Male NPT	8	8FB								
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



FW 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)

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.

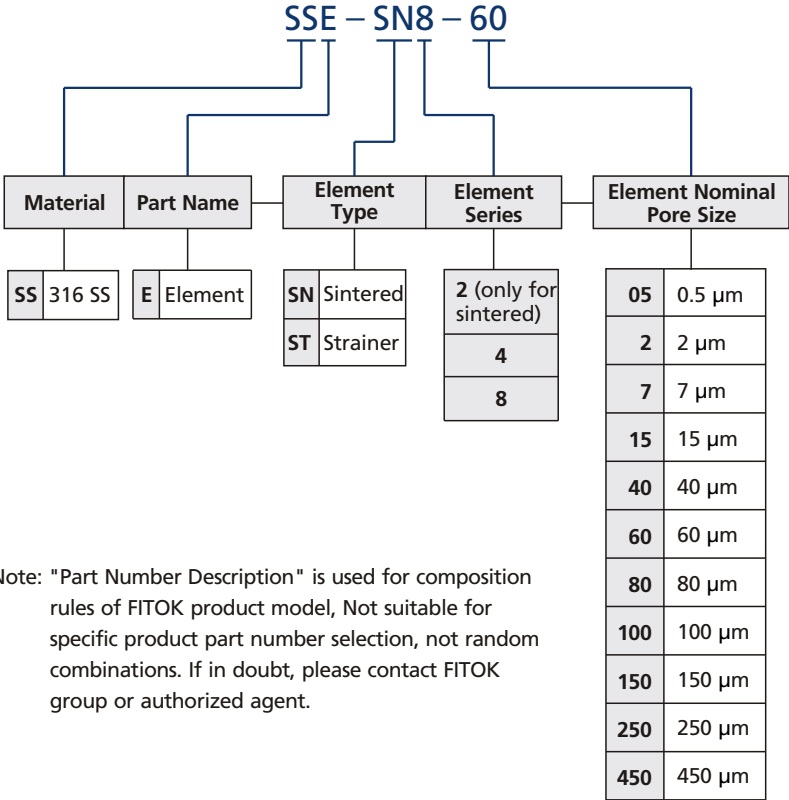
FBSS – FL8 – ML10 – S – P150 – FL4SF2									
Series	Body Material	Inlet Type	Inlet Size	Outlet Type	Outlet Size	Element Type	Gasket Material	Element Nominal Pore Size	Bypass Port (for FB Series Only)
FT	SS	FNS	2 1/8"	Same as Inlet	Specified in the same way as the inlet type and size	S	Silver-plated 316 SS for FT, FB, FI	05	1/8" Female NPT
FB	6L	NS	4 1/4"					2	1/8" Fractional Tube Fitting
FI	S4	FRT	6 3/8" or 6 mm	Same as Inlet	Specified in the same way as the inlet type and size	S	PTFE-plated 316 SS for FT, FB, FI	7	1/4" Fractional Tube Fitting
FW	4L	RT	8 1/2" or 8 mm					15	1/4" Tube Socket Weld
		FMS	10 mm	Same as Inlet	Specified in the same way as the inlet type and size	S	Aluminum for FT, FB, FI	40	3/8" Fractional Tube Fitting
	S1	MS	12 3/4" or 12 mm					60	1/2" Fractional Tube Fitting
	B	FRP	14 mm or M14 x 1.5	Same as Inlet	Specified in the same way as the inlet type and size	S	No-plated 316 SS for FT, FB, FI	80	
	904L	BP	16 1" or 16 mm					100	
		FL	18 mm	Same as Inlet	Specified in the same way as the inlet type and size	S		150	
		ML	1 1/4" or 20 mm or M20 x 1.5					250	
		TS	22 mm or M22 x 1.5	Same as Inlet	Specified in the same way as the inlet type and size	S		450	
		TB	25 mm						
		FR							

FC-01	FC-02
No	F2
NACE	MR0175

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.

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



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.