

Line Filters

Line Filters



D-02

Line Filters

- 10FD, 10FC Series Line Filters: 10,000 psig (690 bar)
- 15FD, 15FC Series Line Filters: 15,000 psig (1034 bar)
- 20FD, 20FC Series Line Filters: 20,000 psig (1379 bar)
- 60FD, 60FC Series Line Filters: 60,000 psig (4137 bar)



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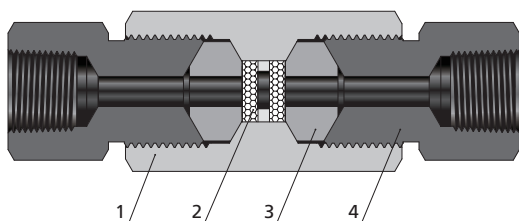
10FD Series: 10,000 psig (690 bar)

Dual-Disc Line Filters

Features

- ⦿ Working temperature range: -60°F to 400°F (-50°C to 204°C)
- ⦿ 3/4" and 1" female NPT available
- ⦿ Dual-disc design allows the upstream filter element to trap the large particulate contaminants before they can reach and clog the smaller pore-size downstream element
- ⦿ Downstream/upstream element nominal pore size: 5/10, 10/35 and 35/65 μm; other element combinations available on request
- ⦿ Easy to replace filter elements
- ⦿ Pressure differential not to exceed 1000 psig (69 bar) in a flowing condition

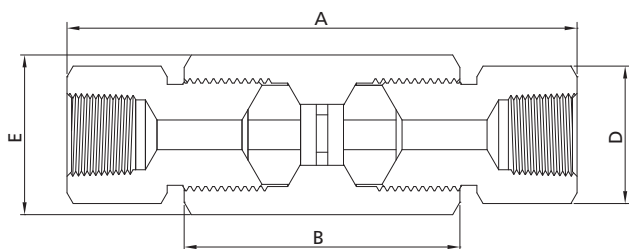
Standard Materials of Construction



Item	Component	Material Grade
1	<i>Body</i>	316 SS
2	<i>Filter Element</i>	Sintered 316 SS
3	<i>Cover</i>	316 SS
4	<i>Gland Nut</i>	316 SS
	Lubricant	Molybdenum disulfide

Wetted component listed in italics.

Ordering Information and Dimensions



Ordering Number	Connection	Orifice in. (mm)	Nominal Pore Size (μm)	Effective Filter Element Area in. ² (mm ²)	Dimensions, in. (mm)				Working Pressure psig (bar)	
					A	B	D (Hex)	E (Hex)		
10FDSS-FNS12-0510	FNS12	0.36 (9.1)	5/10	0.44 (286.5)	5.59 (142.0)	3.06 (77.8)	1.50 (38.1)	1.75 (44.5)	10,000 (690)	
10FDSS-FNS12-1035			10/35							
10FDSS-FNS12-3565			35/65							
10FDSS-FNS16-0510	FNS16	0.56 (14.3)	5/10	0.89 (572.6)	6.66 (169.1)	3.63 (92.1)	1.75 (44.5)	1.88 (47.7)		10,000 (690)
10FDSS-FNS16-1035			10/35							
10FDSS-FNS16-3565			35/65							

NOTE: Dimensions are for reference only and are subject to change.

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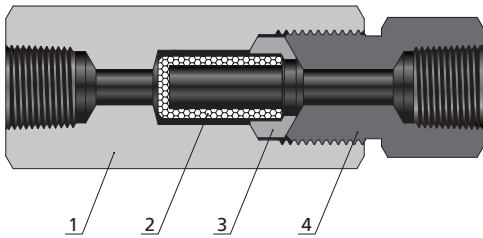
10FC Series: 10,000 psig (690 bar)

Cup-Type Line Filters

Features

- Working temperature range: -60°F to 400°F (-50°C to 204°C)
- 3/4" and 1" female NPT available
- Cup design to offer about six times the effective filter area as compared to disc-type units, and recommended in systems requiring both maximum filter surface area and high flow rates
- Nominal pore sizes for filter elements: 5, 35 and 65 μm
- Easy to replace filter elements
- Pressure differential not to exceed 1000 psig (69 bar) in a flowing condition

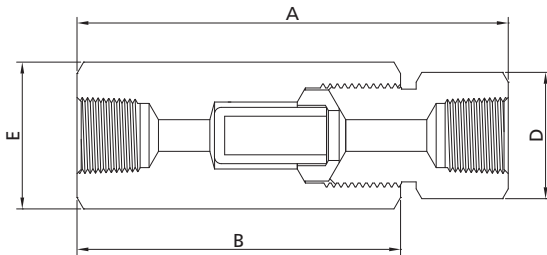
Standard Materials of Construction



Item	Component	Material Grade
1	<i>Body</i>	316 SS
2	<i>Filter Element</i>	<i>Sintered 316 SS</i>
3	<i>Cover</i>	316 SS
4	<i>Gland Nut</i>	316 SS
	Lubricant	Molybdenum disulfide

Wetted component listed in italics.

Ordering Information and Dimensions



Ordering Number	Connection	Orifice in. (mm)	Nominal Pore Size (μm)	Effective Filter Element Area in. ² (mm ²)	Dimensions, in. (mm)				Working Pressure psig (bar)
					A	B	D (Hex)	E (Hex)	
10FCSS-FNS12-5	FNS12	0.52 (13.1)	5	2.65 (1709.7)	5.14 (130.6)	3.87 (98.4)	1.50 (38.1)	1.75 (44.5)	10,000 (690)
10FCSS-FNS12-35			35						
10FCSS-FNS12-65			65						
10FCSS-FNS16-5	FNS16	0.69 (17.5)	5	5.00 (3225.8)	6.39 (162.3)	4.87 (123.8)	1.75 (44.5)	1.88 (47.7)	10,000 (690)
10FCSS-FNS16-35			35						
10FCSS-FNS16-65			65						

NOTE: Dimensions are for reference only and are subject to change.

15FD Series: 15,000 psig (1034 bar)

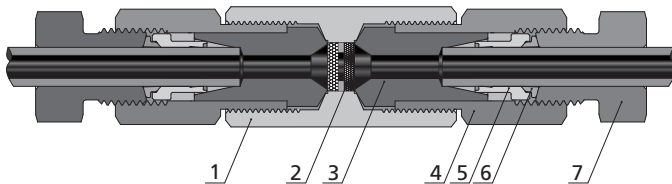
Dual-Disc Line Filters

Features

- ⦿ Working temperature range:
 Tubing connection: -60°F to 660°F (-50°C to 350°C)
 Pipe connection: -60°F to 400°F (-50°C to 204°C)
- ⦿ Connection types and sizes:
 1/8", 1/4", 3/8" and 1/2" O.D. tubing
 1/8", 1/4", 3/8" and 1/2" Female NPT
- ⦿ Dual-disc design allows the upstream filter element to trap the large particulate contaminants before they can reach and clog the smaller pore-size downstream element
- ⦿ Downstream/upstream element nominal pore size: 5/10, 10/35 and 35/65 µm; other element combinations available on request
- ⦿ Easy to replace filter elements
- ⦿ Pressure differential not to exceed 1000 psig (69 bar) in a flowing condition

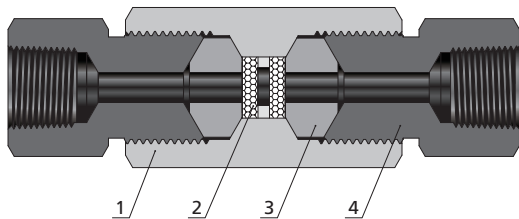
Standard Materials of Construction

Tubing Connection



Item	Component	Material Grade
1	<i>Body</i>	316 SS
2	<i>Filter Element</i>	Sintered 316 SS
3	<i>Cover</i>	316 SS
4	<i>Gland Nut</i>	316 SS
5	<i>Front Ferrule</i>	316 SS
6	<i>Rear Ferrule</i>	316 SS
7	<i>Nut</i>	316 SS
	Lubricant	Molybdenum disulfide

Pipe Connection



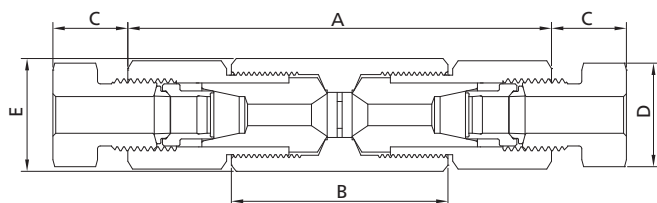
Item	Component	Material Grade
1	<i>Body</i>	316 SS
2	<i>Filter Element</i>	Sintered 316 SS
3	<i>Cover</i>	316 SS
4	<i>Gland Nut</i>	316 SS
	Lubricant	Molybdenum disulfide

Wetted component listed in italics.

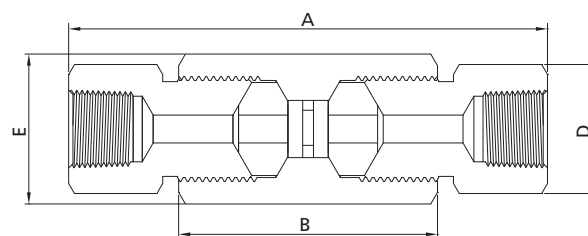
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Tubing Connection



Pipe Connection



Ordering Number	Connection	Orifice in. (mm)	Nominal Pore Size (μm)	Effective Filter Element Area in. ² (mm ²)	Dimensions, in. (mm)					Working Pressure psig (bar)
					A	B	C	D (Hex)	E (Hex)	
15FDSS-DFF2-0510	DFF2	0.09 (2.4)	5/10	0.06 (38.7)	2.38 (60.5)	1.50 (38.1)	0.44 (11.2)	0.37 (9.5)	0.63 (15.9)	15,000 (1034)
15FDSS-DFF2-1035			10/35							
15FDSS-DFF2-3565			35/65							
15FDSS-DFF4-0510	DFF4	0.13 (3.2)	5/10	0.15 (96.8)	3.17 (80.5)	2.00 (50.8)	0.52 (13.3)	0.63 (15.9)	0.81 (20.6)	15,000 (1034)
15FDSS-DFF4-1035			10/35							
15FDSS-DFF4-3565			35/65							
15FDSS-DFF6-0510	DFF6	0.13 (3.2)	5/10	0.15 (96.8)	3.36 (85.4)	2.19 (55.6)	0.54 (13.6)	0.75 (19.1)	1.00 (25.4)	15,000 (1034)
15FDSS-DFF6-1035			10/35							
15FDSS-DFF6-3565			35/65							
15FDSS-DFF8-0510	DFF8	0.19 (4.8)	5/10	0.25 (161.3)	4.30 (109.1)	2.94 (74.6)	0.60 (15.3)	0.94 (23.8)	1.19 (30.2)	15,000 (1034)
15FDSS-DFF8-1035			10/35							
15FDSS-DFF8-3565			35/65							
15FDSS-FNS2-0510	FNS2	0.13 (3.2)	5/10	0.06 (38.7)	2.79 (70.8)	1.50 (38.1)	—	0.63 (15.9)	0.63 (15.9)	15,000 (1034)
15FDSS-FNS2-1035			10/35							
15FDSS-FNS2-3565			35/65							
15FDSS-FNS4-0510	FNS4	0.19 (4.8)	5/10	0.15 (96.8)	4.15 (105.5)	2.19 (55.6)	—	0.94 (23.8)	1.00 (25.4)	15,000 (1034)
15FDSS-FNS4-1035			10/35							
15FDSS-FNS4-3565			35/65							
15FDSS-FNS6-0510	FNS6	0.19 (4.8)	5/10	0.15 (96.8)	4.15 (105.5)	2.19 (55.6)	—	1.13 (28.6)	1.13 (28.6)	15,000 (1034)
15FDSS-FNS6-1035			10/35							
15FDSS-FNS6-3565			35/65							
15FDSS-FNS8-0510	FNS8	0.31 (7.9)	5/10	0.25 (161.3)	5.27 (133.8)	2.94 (74.6)	—	1.38 (35.0)	1.38 (35.0)	15,000 (1034)
15FDSS-FNS8-1035			10/35							
15FDSS-FNS8-3565			35/65							

NOTE: Dimensions are for reference only and are subject to change.

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15FC Series: 15,000 psig (1034 bar)

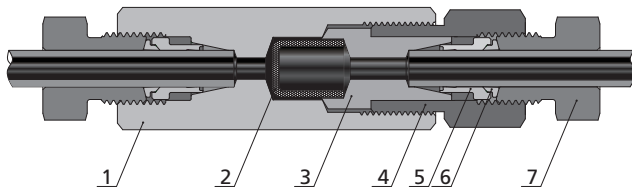
Cup-Type Line Filters

Features

- ⦿ Working temperature range:
 Tubing connection: -60°F to 660°F (-50°C to 350°C)
 Pipe connection: -60°F to 400°F (-50°C to 204°C)
- ⦿ Connection types and sizes:
 1/8", 1/4", 3/8" and 1/2" O.D. tubing
 1/8", 1/4", 3/8" and 1/2" Female NPT
- ⦿ Cup design to offer about six times the effective filter area as compared to disc-type units, and recommended in systems requiring both maximum filter surface area and high flow rates
- ⦿ Nominal pore sizes for filter elements: 5, 35 and 65 μm
- ⦿ Easy to replace filter elements
- ⦿ Pressure differential not to exceed 1000 psig (69 bar) in a flowing condition

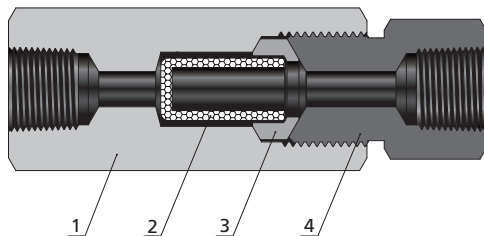
Standard Materials of Construction

Tubing Connection



Item	Component	Material Grade
1	<i>Body</i>	316 SS
2	<i>Filter Element</i>	<i>Sintered 316 SS</i>
3	<i>Cover</i>	316 SS
4	Gland Nut	316 SS
5	<i>Front Ferrule</i>	316 SS
6	<i>Rear Ferrule</i>	316 SS
7	Nut	316 SS
Lubricant		Molybdenum disulfide

Pipe Connection



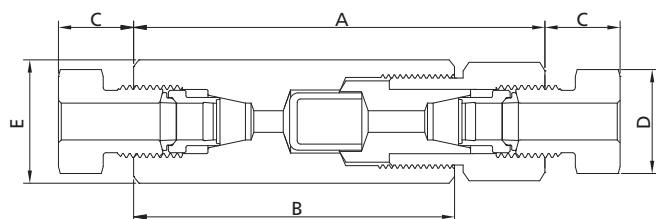
Item	Component	Material Grade
1	<i>Body</i>	316 SS
2	<i>Filter Element</i>	<i>Sintered 316 SS</i>
3	<i>Cover</i>	316 SS
4	<i>Gland Nut</i>	316 SS
Lubricant		Molybdenum disulfide

Wetted component listed in italics.

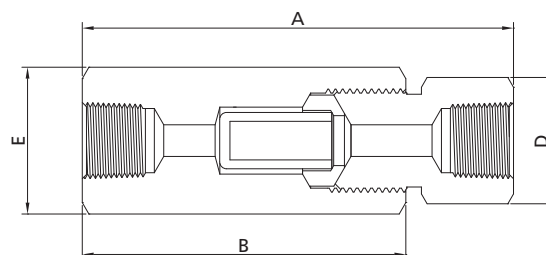
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Tubing Connection



Pipe Connection



Ordering Number	Connection	Orifice in. (mm)	Nominal Pore Size (µm)	Effective Filter Element Area in. ² (mm ²)	Dimensions, in. (mm)					Working Pressure psig (bar)
					A	B	C	D (Hex)	E (Hex)	
15FCSS-DFF4-5	DFF4	0.19 (4.8)	5	0.81 (522.6)	3.34 (84.8)	2.72 (69.0)	0.52 (13.3)	0.63 (15.9)	0.81 (20.6)	15,000 (1034)
15FCSS-DFF4-35			35							
15FCSS-DFF4-65			65							
15FCSS-DFF6-5	DFF6	0.31 (7.9)	5	0.81 (522.6)	3.51 (89.2)	2.95 (75.0)	0.54 (13.6)	0.75 (19.1)	1.00 (25.4)	15,000 (1034)
15FCSS-DFF6-35			35							
15FCSS-DFF6-65			65							
15FCSS-DFF8-5	DFF8	0.44 (11.1)	5	1.53 (987.1)	4.30 (109.2)	3.62 (92.0)	0.60 (15.3)	0.94 (23.8)	1.38 (35.0)	15,000 (1034)
15FCSS-DFF8-35			35							
15FCSS-DFF8-65			65							
15FCSS-FNS2-5	FNS2	0.13 (3.2)	5	0.38 (245.0)	2.58 (65.6)	1.94 (49.2)	—	0.63 (15.9)	0.63 (15.9)	15,000 (1034)
15FCSS-FNS2-35			35							
15FCSS-FNS2-65			65							
15FCSS-FNS4-5	FNS4	0.31 (7.9)	5	0.81 (522.6)	3.66 (93.0)	2.69 (68.3)	—	0.94 (23.8)	1.00 (25.4)	15,000 (1034)
15FCSS-FNS4-35			35							
15FCSS-FNS4-65			65							
15FCSS-FNS6-5	FNS6	0.31 (7.9)	5	0.81 (522.6)	3.66 (93.0)	2.69 (68.3)	—	1.13 (28.6)	1.13 (28.6)	15,000 (1034)
15FCSS-FNS6-35			35							
15FCSS-FNS6-65			65							
15FCSS-FNS8-5	FNS8	0.44 (11.1)	5	1.53 (987.1)	4.55 (115.6)	3.37 (85.7)	—	1.38 (35.0)	1.38 (35.0)	15,000 (1034)
15FCSS-FNS8-35			35							
15FCSS-FNS8-65			65							

NOTE: Dimensions are for reference only and are subject to change.

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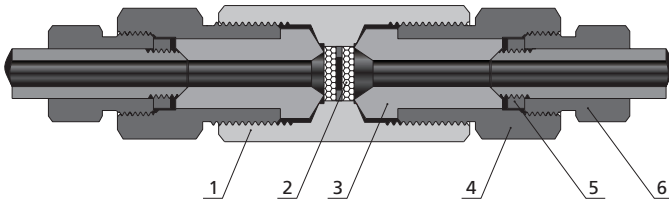
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20FD Series: 20,000 psig (1379 bar) Dual-Disc Line Filters

Features

- ⦿ Working temperature range: -60°F to 660°F (-50°C to 350°C)
- ⦿ Tubing size available in 9/16"
- ⦿ Dual-disc design allows the upstream filter element to trap the large particulate contaminants before they can reach and clog the smaller pore-size downstream element
- ⦿ Downstream/upstream element nominal pore size: 5/10, 10/35 and 35/65 μm; other element combinations available on request
- ⦿ Easy to replace filter elements
- ⦿ Pressure differential not to exceed 1000 psig (69 bar) in a flowing condition

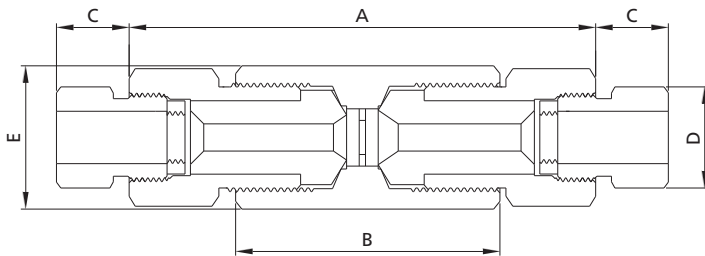
Standard Materials of Construction



Item	Component	Material Grade
1	<i>Body</i>	316 SS
2	<i>Filter Element</i>	Sintered 316 SS
3	<i>Cover</i>	316 SS
4	Gland Nut	316 SS
5	Collar	316 SS
6	Gland	316 SS
Lubricant		Molybdenum disulfide

Wetted component listed in italics.

Ordering Information and Dimensions



Ordering Number	Connection	Orifice in. (mm)	Nominal Pore Size (μm)	Effective Filter Element Area in. ² (mm ²)	Dimensions, in. (mm)					Working Pressure psig (bar)
					A	B	C	D (Hex)	E (Hex)	
20FDSS-MF9-0510	MF9	0.31 (7.9)	5/10	0.25 (161.3)	4.30 (109.2)	2.94 (74.6)	0.55 (14.0)	0.94 (23.8)	1.38 (35.0)	20,000 (1379)
20FDSS-MF9-1035			10/35							
20FDSS-MF9-3565			35/65							

NOTE: Dimensions are for reference only and are subject to change.

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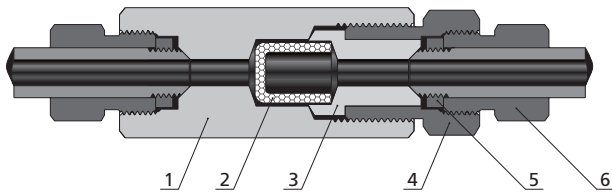
20FC Series: 20,000 psig (1379 bar)

Cup-Type Line Filters

Features

- Working temperature range: -60°F to 660°F (-50°C to 350°C)
- Tubing sizes available in 1/4", 3/8", 9/16", 3/4" and 1"
- Cup design to offer about six times the effective filter area as compared to disc-type units, and recommended in systems requiring both maximum filter surface area and high flow rates
- Nominal pore sizes for filter elements: 5, 35 and 65 μm
- Easy to replace filter elements
- Pressure differential not to exceed 1000 psig (69 bar) in a flowing condition

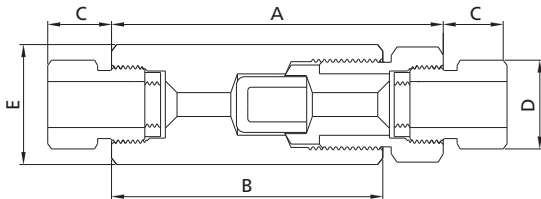
Standard Materials of Construction



Item	Component	Material Grade
1	Body	316 SS
2	Filter Element	Sintered 316 SS
3	Cover	316 SS
4	Gland Nut	316 SS
5	Collar	316 SS
6	Gland	316 SS
Lubricant		Molybdenum disulfide

Wetted component listed in italics.

Ordering Information and Dimensions



Ordering Number	Connection	Orifice in. (mm)	Nominal Pore Size (μm)	Effective Filter Element Area in. ² (mm ²)	Dimensions, in. (mm)					Working Pressure psig (bar)
					A	B	C	D (Hex)	E (Hex)	
20FCSS-MF4-5	MF4	0.13 (3.2)	5	0.81 (522.6)	2.94 (74.1)	2.50 (63.5)	0.38 (9.7)	0.50 (12.7)	0.81 (20.6)	20,000 (1379)
20FCSS-MF4-35			35							
20FCSS-MF4-65			65							
20FCSS-MF6-5	MF6	0.22 (5.5)	5	0.81 (522.6)	3.12 (79.3)	2.62 (66.6)	0.44 (11.2)	0.63 (15.9)	1.00 (25.4)	20,000 (1379)
20FCSS-MF6-35			35							
20FCSS-MF6-65			65							
20FCSS-MF9-5	MF9	0.36 (9.1)	5	1.53 (987.1)	4.18 (106.2)	3.50 (88.9)	0.55 (14.0)	0.94 (23.8)	1.38 (35.0)	20,000 (1379)
20FCSS-MF9-35			35							
20FCSS-MF9-65			65							
20FCSS-MF12-5	MF12	0.52 (13.1)	5	2.65 (1709.7)	5.50 (139.7)	4.75 (120.7)	0.60 (15.2)	1.19 (30.2)	1.75 (44.5)	20,000 (1379)
20FCSS-MF12-35			35							
20FCSS-MF12-65			65							
20FCSS-MF16-5	MF16	0.69 (17.5)	5	5.00 (3225.8)	6.62 (168.2)	5.75 (146.1)	0.74 (18.7)	1.38 (35.0)	2.12 (54.0)	20,000 (1379)
20FCSS-MF16-35			35							
20FCSS-MF16-65			65							

NOTE: Dimensions are for reference only and are subject to change.

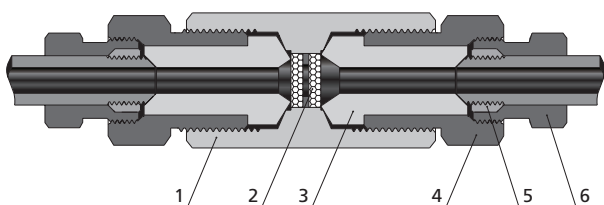
60FD Series: 60,000 psig (4137 bar)

Dual-Disc Line Filters

Features

- ⦿ Working temperature range: -60°F to 660°F (-50°C to 350°C)
- ⦿ Tubing sizes available in 1/4", 3/8" and 9/16"
- ⦿ Dual-disc design allows the upstream filter element to trap the large particulate contaminants before they can reach and clog the smaller pore-size downstream element
- ⦿ Downstream/upstream element nominal pore size: 5/10, 10/35 and 35/65 μm; other element combinations available on request
- ⦿ Easy to replace filter elements
- ⦿ Pressure differential not to exceed 1000 psig (69 bar) in a flowing condition

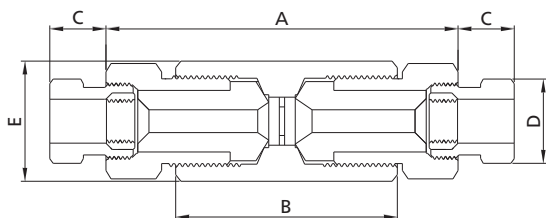
Standard Materials of Construction



Item	Component	Material Grade
1	<i>Body</i>	316 SS
2	<i>Filter Element</i>	Sintered 316 SS
3	<i>Cover</i>	316 SS
4	Gland Nut	316 SS
5	Collar	316 SS
6	Gland	316 SS
	Lubricant	Molybdenum disulfide

Wetted component listed in italics.

Ordering Information and Dimensions



Ordering Number	Connection	Orifice in. (mm)	Nominal Pore Size (μm)	Effective Filter Element Area in. ² (mm ²)	Dimensions, in. (mm)					Working Pressure psig (bar)
					A	B	C	D (Hex)	E (Hex)	
60FDSS-HF4-0510	HF4	0.09 (2.4)	5/10	0.07 (45.2)	4.73 (120.1)	3.00 (76.2)	0.47 (11.9)	0.63 (15.9)	1.19 (30.2)	60,000 (4137)
60FDSS-HF4-1035			10/35							
60FDSS-HF4-3565			35/65							
60FDSS-HF6-0510	HF6	0.13 (3.2)	5/10	0.07 (45.2)	5.12 (130.2)	3.00 (76.2)	0.61 (15.8)	0.75 (19.1)	1.19 (30.2)	60,000 (4137)
60FDSS-HF6-1035			10/35							
60FDSS-HF6-3565			35/65							
60FDSS-HF9-0510	HF9	0.19 (4.8)	5/10	0.15 (96.8)	5.81 (147.6)	3.38 (85.9)	0.95 (24.1)	1.19 (30.2)	1.50 (38.1)	60,000 (4137)
60FDSS-HF9-1035			10/35							
60FDSS-HF9-3565			35/65							

NOTE: Dimensions are for reference only and are subject to change.

Fittings
 Tubing
 Quick Couplings
 Line Filters
 Valves
 Sour Service Products
 Subsea Valves
 Tools and Installation Instructions
 Technical Information
 Part Number Crossover Charts

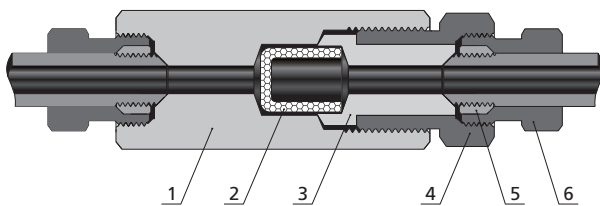
60FC Series: 60,000 psig (4137 bar)

Cup-Type Line Filters

Features

- Working temperature range: -60°F to 660°F (-50°C to 350°C)
- Tubing sizes available in 1/4", 3/8" and 9/16"
- Cup design to offer about six times the effective filter area as compared to disc-type units, and recommended in systems requiring both maximum filter surface area and high flow rates
- Nominal pore sizes for filter elements: 5, 35 and 65 μm
- Easy to replace filter elements
- Pressure differential not to exceed 1000 psig (69 bar) in a flowing condition

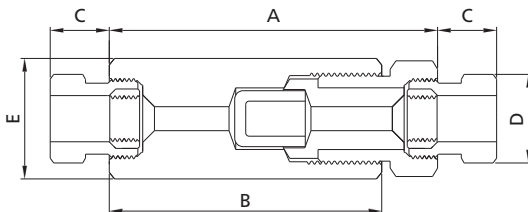
Standard Materials of Construction



Item	Component	Material Grade
1	<i>Body</i>	316 SS
2	<i>Filter Element</i>	Sintered 316 SS
3	<i>Cover</i>	316 SS
4	<i>Gland Nut</i>	316 SS
5	<i>Collar</i>	316 SS
6	<i>Gland</i>	316 SS
	Lubricant	Molybdenum disulfide

Wetted component listed in italics.

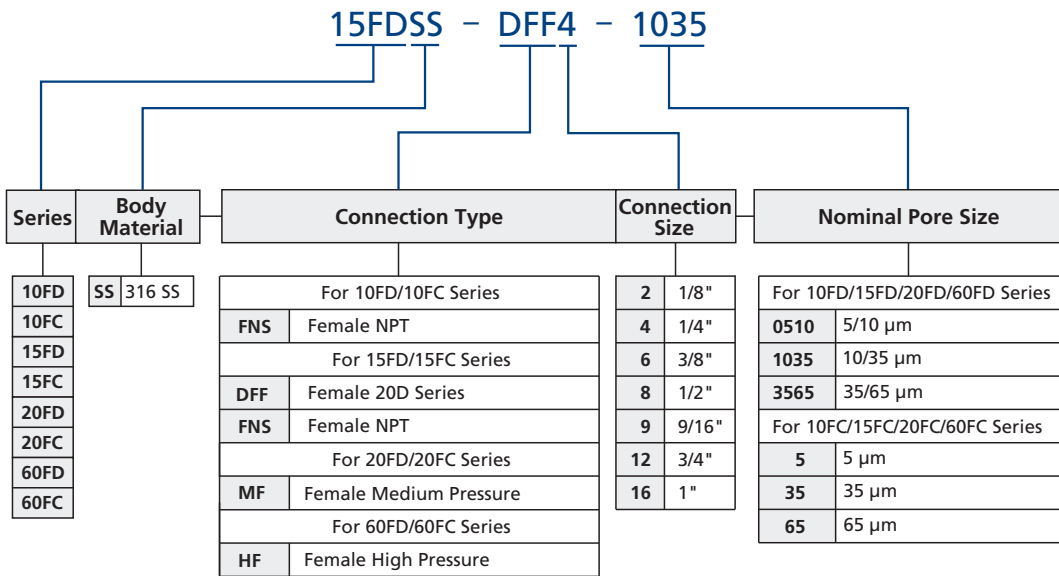
Ordering Information and Dimensions



Ordering Number	Connection	Orifice in. (mm)	Nominal Pore Size (μm)	Effective Filter Element Area in. ² (mm ²)	Dimensions, in. (mm)					Working Pressure psig (bar)
					A	B	C	D (Hex)	E (Hex)	
60FCSS-HF4-5	HF4	0.09 (2.4)	5	1.29 (832.3)	4.19 (106.4)	3.38 (85.9)	0.47 (11.9)	0.63 (15.9)	1.38 (35.0)	60,000 (4137)
60FCSS-HF4-35			35							
60FCSS-HF4-65			65							
60FCSS-HF6-5	HF6	0.13 (3.2)	5	1.29 (832.3)	4.62 (117.4)	3.62 (91.9)	0.61 (15.6)	0.75 (19.1)	1.38 (35.0)	60,000 (4137)
60FCSS-HF6-35			35							
60FCSS-HF6-65			65							
60FCSS-HF9-5	HF9	0.19 (4.8)	5	1.29 (832.3)	5.25 (133.4)	4.06 (103.1)	0.95 (24.1)	1.19 (30.2)	1.50 (38.1)	60,000 (4137)
60FCSS-HF9-35			35							
60FCSS-HF9-65			65							

NOTE: Dimensions are for reference only and are subject to change.

Ordering Number Description



- NOTES: 1. For more details regarding 20D Series and Medium/High Pressure connections, please see **Connection Information** on I-02.
2. "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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