

# Line Filters

Line Filters



D-02

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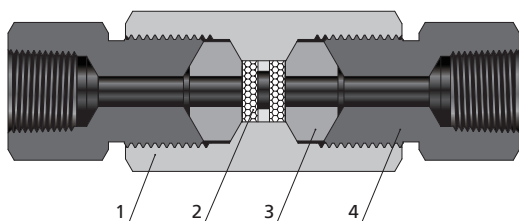
# 10FD Series: 10,000 psig (690 bar)

## 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

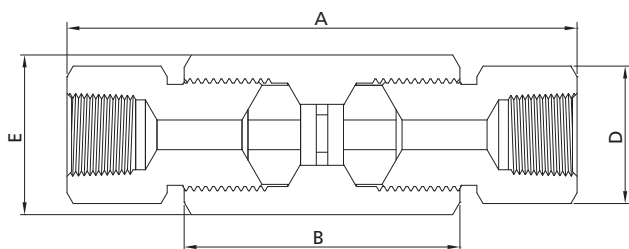
### Standard Materials of Construction



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. <sup>2</sup> (mm <sup>2</sup> )	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						

NOTES: 1. The element nominal pore size is calculated from measured minimum pressure required to force the first bubble of gas through the test filter element (under the standardized conditions) impregnated with a liquid.  
 2. Dimensions are for reference only and are subject to change.

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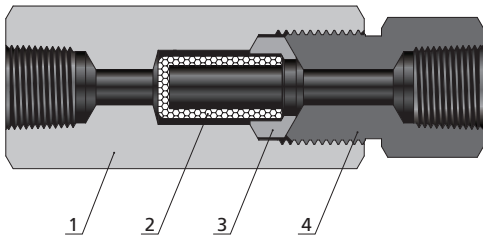
# 10FC Series: 10,000 psig (690 bar)

## 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  $\mu\text{m}$
- Easy to replace filter elements
- Pressure differential not to exceed 1000 psig (69 bar) in a flowing condition

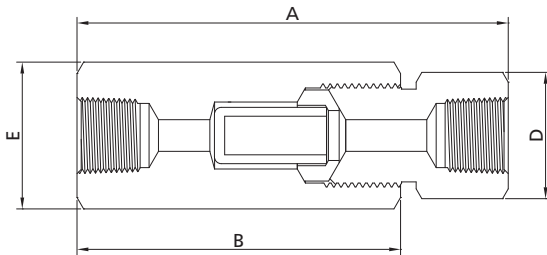
### Standard Materials of Construction



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 ( $\mu\text{m}$ )	Effective Filter Element Area in. <sup>2</sup> (mm <sup>2</sup> )	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						

- NOTES: 1. The element nominal pore size is calculated from measured minimum pressure required to force the first bubble of gas through the test filter element (under the standardized conditions) impregnated with a liquid.  
2. Dimensions are for reference only and are subject to change.

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

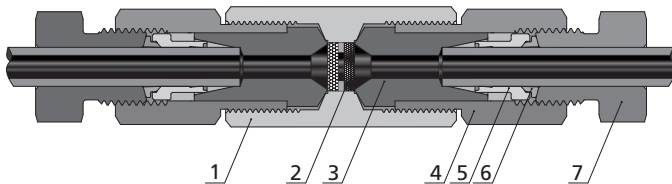
## Dual-Disc Line Filters

### 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

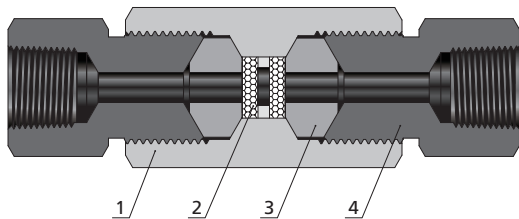
### Standard Materials of Construction

#### 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



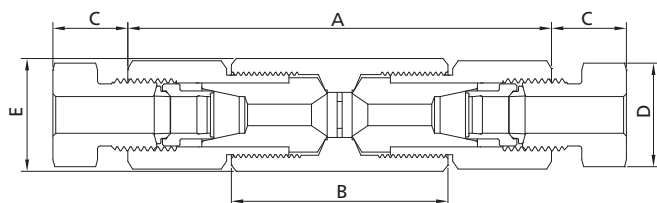
Item	Component	Material Grade
1	<i>Body</i>	316 SS
2	<i>Filter Element</i>	Sintered 316 SS
3	<i>Cover</i>	316 SS
4	<i>Gland Nut</i>	316 SS
	Lubricant	Molybdenum disulfide

*Wetted component listed in italics.*

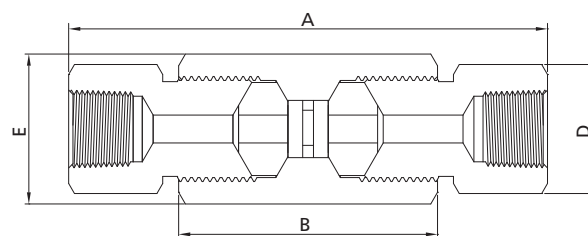
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## Ordering Information and Dimensions

### Tubing Connection



### Pipe Connection



Ordering Number	Connection	Orifice in. (mm)	Nominal Pore Size ( $\mu\text{m}$ )	Effective Filter Element Area in. <sup>2</sup> (mm <sup>2</sup> )	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							

NOTES: 1. The element nominal pore size is calculated from measured minimum pressure required to force the first bubble of gas through the test filter element (under the standardized conditions) impregnated with a liquid.

2. Dimensions are for reference only and are subject to change.

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

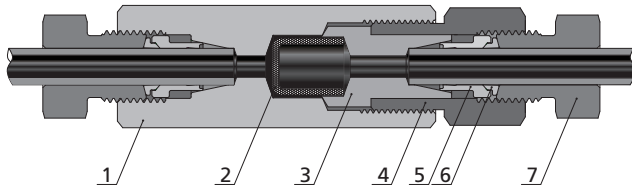
## Cup-Type Line Filters

### 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

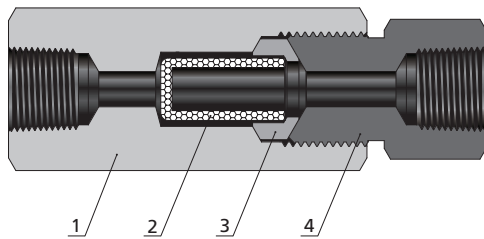
### Standard Materials of Construction

#### 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	<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>	<i>Sintered 316 SS</i>
3	<i>Cover</i>	316 SS
4	<i>Gland Nut</i>	316 SS
	Lubricant	Molybdenum disulfide

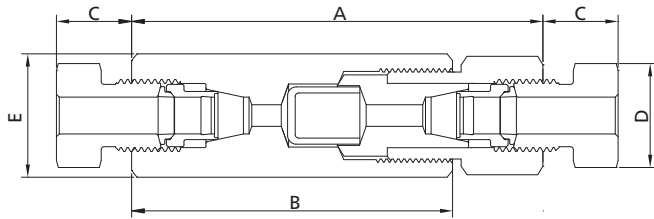
*Wetted component listed in italics.*

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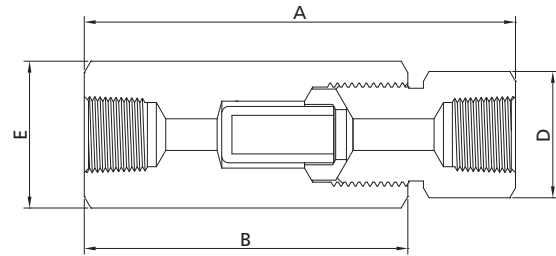


## Ordering Information and Dimensions

### Tubing Connection



### Pipe Connection



Ordering Number	Connection	Orifice in. (mm)	Nominal Pore Size (µm)	Effective Filter Element Area in. <sup>2</sup> (mm <sup>2</sup> )	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							

- NOTES: 1. The element nominal pore size is calculated from measured minimum pressure required to force the first bubble of gas through the test filter element (under the standardized conditions) impregnated with a liquid.  
 2. Dimensions are for reference only and are subject to change.

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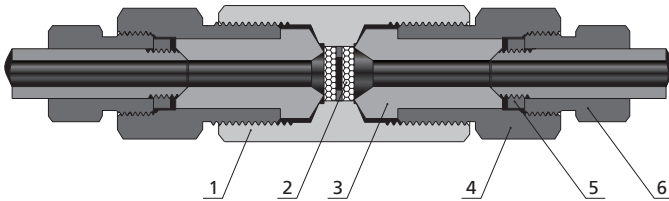
# 20FD Series: 20,000 psig (1379 bar)

## 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

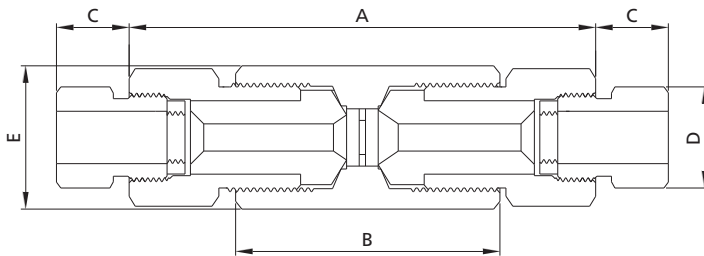
### Standard Materials of Construction



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. <sup>2</sup> (mm <sup>2</sup> )	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							

NOTES: 1. The element nominal pore size is calculated from measured minimum pressure required to force the first bubble of gas through the test filter element (under the standardized conditions) impregnated with a liquid.  
 2. Dimensions are for reference only and are subject to change.

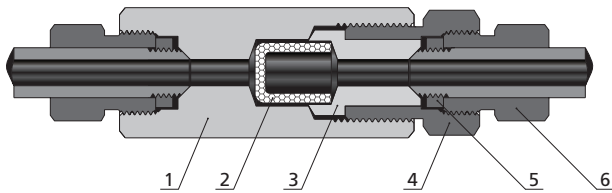
# 20FC Series: 20,000 psig (1379 bar)

## 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  $\mu\text{m}$
- Easy to replace filter elements
- Pressure differential not to exceed 1000 psig (69 bar) in a flowing condition

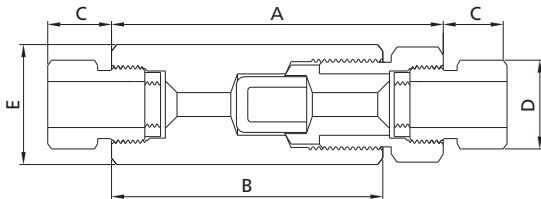
### Standard Materials of Construction



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 ( $\mu\text{m}$ )	Effective Filter Element Area in. <sup>2</sup> (mm <sup>2</sup> )	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							

- NOTES: 1. The element nominal pore size is calculated from measured minimum pressure required to force the first bubble of gas through the test filter element (under the standardized conditions) impregnated with a liquid.  
2. Dimensions are for reference only and are subject to change.

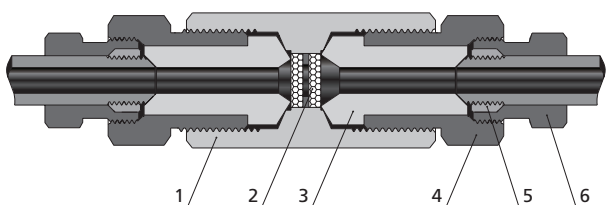
# 60FD Series: 60,000 psig (4137 bar)

## 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

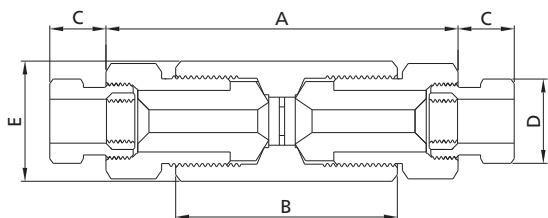
### Standard Materials of Construction



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. <sup>2</sup> (mm <sup>2</sup> )	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							

- NOTES: 1. The element nominal pore size is calculated from measured minimum pressure required to force the first bubble of gas through the test filter element (under the standardized conditions) impregnated with a liquid.  
 2. Dimensions are for reference only and are subject to change.

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

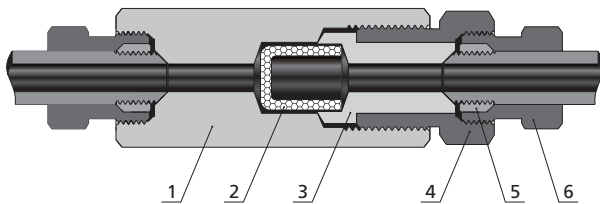
# 60FC Series: 60,000 psig (4137 bar)

## 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  $\mu\text{m}$
- Easy to replace filter elements
- Pressure differential not to exceed 1000 psig (69 bar) in a flowing condition

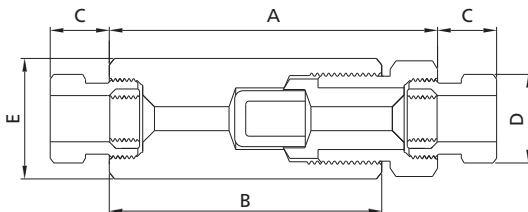
### Standard Materials of Construction



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.*

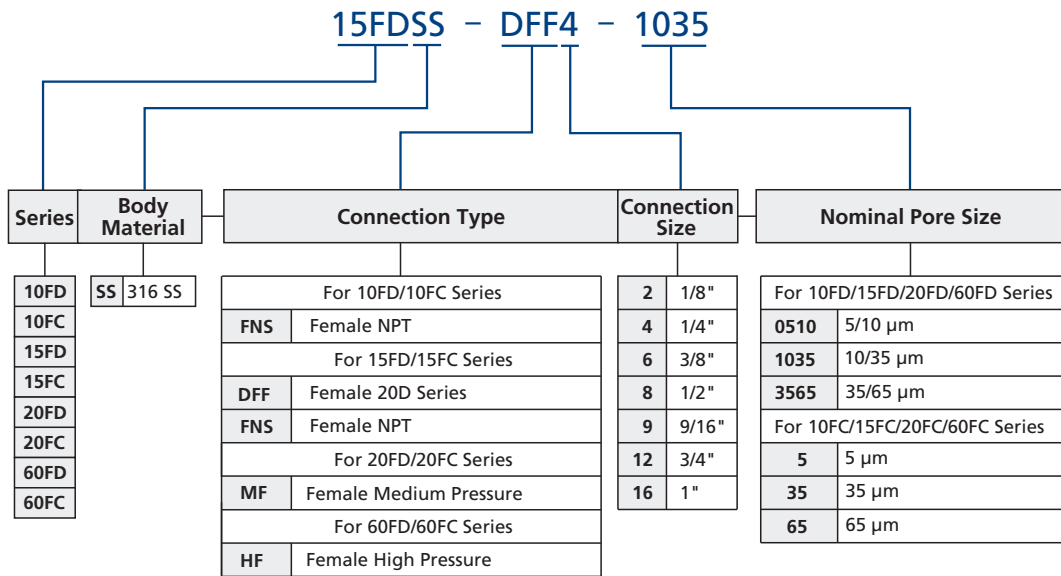
### Ordering Information and Dimensions



Ordering Number	Connection	Orifice in. (mm)	Nominal Pore Size ( $\mu\text{m}$ )	Effective Filter Element Area in. <sup>2</sup> (mm <sup>2</sup> )	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							

- NOTES: 1. The element nominal pore size is calculated from measured minimum pressure required to force the first bubble of gas through the test filter element (under the standardized conditions) impregnated with a liquid.  
2. 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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