

# Line Filters

10FD, 10FC Series Line Filters, 10,000 psi (690 bar)

15FD, 15FC Series Line Filters, 15,000 psi (1034 bar)

20FD, 20FC Series Line Filters, 20,000 psi (1379 bar)

60FD, 60FC Series Line Filters, 60,000 psi (4137 bar)



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Valves and Fittings

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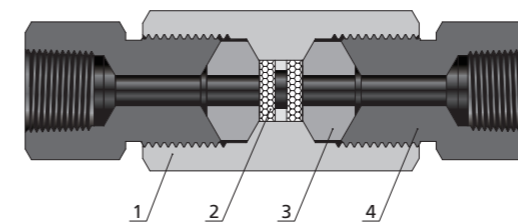
# 10FD Series

## Pipe Dual-Disc Line Filters

### Features

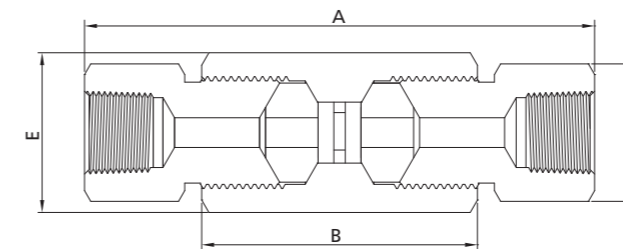
- Pipe Dual-Disc Line Filters are utilized in chemical processing, aerospace, nuclear and other applications.
- The large contaminant particles are filtrated by upstream element. The rest of contaminant particles are filtrated by downstream element.
- Compact design.
- Easy to replace filter element.
- Standard sizes of downstream/upstream nominal pore are 5/10, 10/35 and 35/65 μm. Other element combinations are available on special order.
- 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.
- Working temperature: -60°F to 400°F (-50°C to 204°C)
- Pressure differential not to exceed 1000 psig (69 bar) in a flowing condition.

### Standard Materials of Construction



Item	Component	Valve Material
1	Body	316 SS/A479
2	Filter Element	Sintered 316 SS
3	Cover	316 SS/A479
4	Gland Nut	316 SS/A479
	Lubricant	Molybdenum disulfide

### Technical Data and Dimensions



Ordering Number	Connection Type	Orifice in. (mm)	Nominal Pore Size	Effective Filter Element Area in. <sup>2</sup> (mm <sup>2</sup> )	in. (mm)				Pressure @ Room Temperature 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						

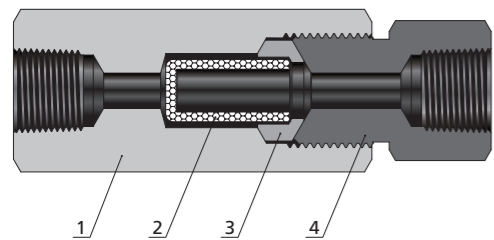
# 10FC Series

## Pipe Cup-Type Line Filters

### Features

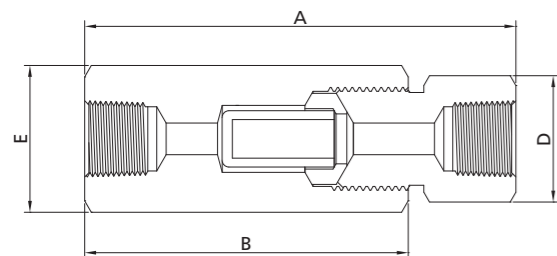
- Compact design.
- The filter elements can be quickly and easily replaced.
- Pipe Cup-Type Line Filters are recommended in high pressure systems requiring both maximum filter surface area and high flow rates. Cup-Type Line Filters are widely used in chemical processing and industrial fields. The cup design of this filter offers about six times the effective filter area as compared to disc-type units.
- Nominal pore sizes for filter element: 5, 35 and 65 µm.
- 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.
- Working temperature: -60°F to 400°F (-50°C to 204°C)
- Pressure differential not to exceed 1000 psig (69 bar) in a flowing condition.

### Standard Materials of Construction



Item	Component	Valve Material
1	Body	316 SS/A479
2	Filter Element	Sintered 316 SS
3	Cover	316 SS/A479
4	Gland Nut	316 SS/A479
	Lubricant	Molybdenum disulfide

### Technical Data and Dimensions



Ordering Number	Connection Type	Orifice in. (mm)	Nominal Pore Size	Effective Filter Element Area in. <sup>2</sup> (mm <sup>2</sup> )	in. (mm)				Pressure @ Room Temperature 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						

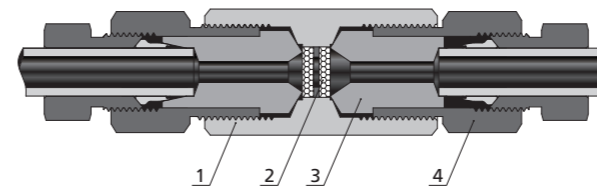
# 15FD Series

## Dual-Disc Line Filters

### Features

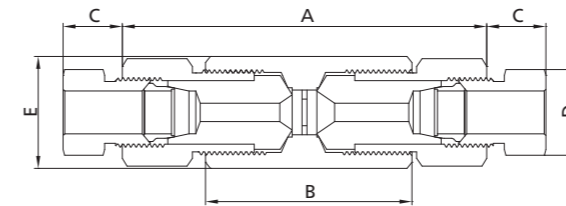
- Tube sizes available for 1/8", 1/4", 3/8" and 1/2".
- Dual-Disc Line Filters are utilized in chemical processing, aerospace, nuclear and other applications.
- The large contaminant particles are filtrated by upstream element. The rest of contaminant particle are filtrated by downstream element.
- Compact design.
- Easy to replace filter element.
- Standard sizes of downstream/upstream nominal pore are 5/10, 10/35 and 35/65 µm. Other element combinations are available on special order.
- 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.
- Working temperature: -60°F to 660°F (-50°C to 350°C)
- Pressure differential not to exceed 1000 psig (69 bar) in a flowing condition.

### Standard Materials of Construction



Item	Component	Valve Material
1	Body	316 SS/A479
2	Filter Element	Sintered 316 SS
3	Cover	316 SS/A479
4	Gland Nut	316 SS/A479
	Lubricant	Molybdenum disulfide

### Technical Data and Dimensions



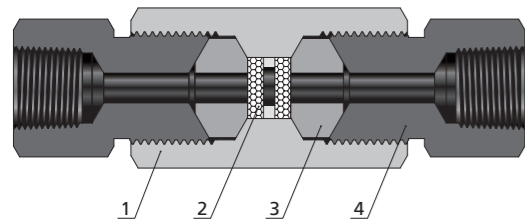
Ordering Number	Connection Type	Orifice in. (mm)	Nominal Pore Size	Effective Filter Element Area in. <sup>2</sup> (mm <sup>2</sup> )	in. (mm)					Pressure @ Room Temperature psig (bar)
					A	B	C	D (Hex)	E (Hex)	
15FDSS-FH2-0510	FH2	0.09 (2.4)	5/10	0.06 (38.7)	2.38 (60.5)	1.50 (38.1)	0.44 (11.2)	0.37 (9.5)	0.63 (15.9)	15,000 (1034)
15FDSS-FH2-1035			10/35							
15FDSS-FH2-3565			35/65							
15FDSS-FH4-0510	FH4	0.13 (3.2)	5/10	0.15 (96.8)	3.17 (80.4)	2.00 (50.8)	0.52 (13.3)	0.63 (15.9)	0.81 (20.6)	15,000 (1034)
15FDSS-FH4-1035			10/35							
15FDSS-FH4-3565			35/65							
15FDSS-FH6-0510	FH6	0.13 (3.2)	5/10	0.15 (96.8)	3.36 (85.3)	2.19 (55.6)	0.54 (13.6)	0.75 (19.1)	1.00 (25.4)	15,000 (1034)
15FDSS-FH6-1035			10/35							
15FDSS-FH6-3565			35/65							
15FDSS-FH8-0510	FH8	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-FH8-1035			10/35							
15FDSS-FH8-3565			35/65							

## Pipe Dual-Disc Line Filters

### Features

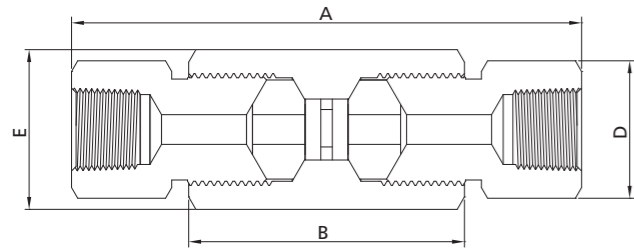
- Pipe Dual-Disc Line Filters are utilized in chemical processing, aerospace, nuclear and other applications.
- The large contaminant particles are filtrated by upstream element. The rest of contaminant particles are filtrated by downstream element.
- Compact design.
- Easy to replace filter element.
- Standard sizes of downstream/upstream nominal pore are 5/10, 10/35 and 35/65 µm. Other element combinations are available on special order.
- 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.
- Working temperature: -60°F to 400°F (-50°C to 204°C)
- Pressure differential not to exceed 1000 psig (69 bar) in a flowing condition.

### Standard Materials of Construction



Item	Component	Valve Material
1	Body	316 SS/A479
2	Filter Element	Sintered 316 SS
3	Cover	316 SS/A479
4	Gland Nut	316 SS/A479
	Lubricant	Molybdenum disulfide

### Technical Data and Dimensions



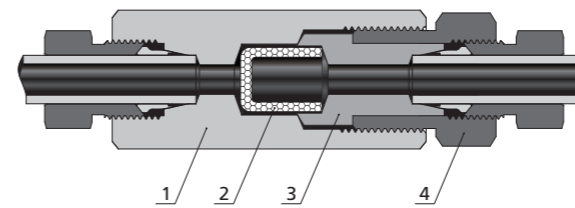
Ordering Number	Connection Type	Orifice in. (mm)	Nominal Pore Size	Effective Filter Element Area in. <sup>2</sup> (mm <sup>2</sup> )	in. (mm)				Pressure @ Room Temperature psig (bar)
					A	B	D (Hex)	E (Hex)	
15FDSS-FNS2-0510	FNS2	0.13 (3.2)	5/10	0.06 (38.7)	2.79 (70.8)	1.50 (38.1)	0.63 (15.9)	0.63 (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						

## 15FC Series Cup-Type Line Filters

### Features

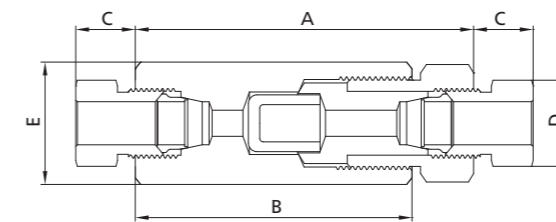
- Tube sizes available for 1/4", 3/8" and 1/2".
- Compact design.
- The filter elements can be quickly and easily replaced.
- Cup-Type Line Filters are recommended in high pressure systems requiring both maximum filter surface area and high flow rates. Cup-Type Line Filters are widely used in chemical processing and industrial fields. The cup design of this filter offers about six times the effective filter area as compared to disc-type units.
- Nominal pore sizes for filter element: 5, 35 and 65 µm.
- 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.
- Working temperature: -60°F to 660°F (-50°C to 350°C)
- Pressure differential not to exceed 1000 psig (69 bar) in a flowing condition.

### Standard Materials of Construction



Item	Component	Valve Material
1	Body	316 SS/A479
2	Filter Element	Sintered 316 SS
3	Cover	316 SS/A479
4	Gland Nut	316 SS/A479
	Lubricant	Molybdenum disulfide

### Technical Data and Dimensions



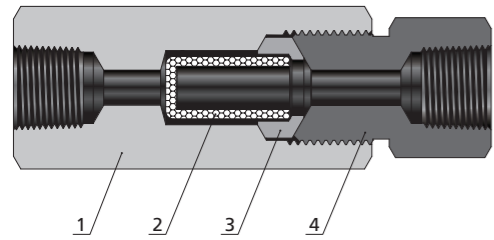
Ordering Number	Connection Type	Orifice in. (mm)	Nominal Pore Size	Effective Filter Element Area in. <sup>2</sup> (mm <sup>2</sup> )	in. (mm)					Pressure @ Room Temperature psig (bar)
					A	B	C	D (Hex)	E (Hex)	
15FCSS-FH4-5	FH4	0.19 (4.8)	5	0.81 (522.6)	3.18 (80.8)	2.56 (65.0)	0.52 (13.3)	0.63 (15.9)	0.81 (20.6)	15,000 (1034)
15FCSS-FH4-35			35							
15FCSS-FH4-65			65							
15FCSS-FH6-5	FH6	0.31 (7.9)	5	0.81 (522.6)	3.56 (90.4)	3.00 (76.2)	0.54 (13.6)	0.75 (19.1)	1.00 (25.4)	15,000 (1034)
15FCSS-FH6-35			35							
15FCSS-FH6-65			65							
15FCSS-FH8-5	FH8	0.44 (11.1)	5	1.53 (987.1)	4.18 (106.2)	3.50 (88.9)	0.60 (15.3)	0.94 (23.8)	1.38 (35.0)	15,000 (1034)
15FCSS-FH8-35			35							
15FCSS-FH8-65			65							

## Pipe Cup-Type Line Filters

### Features

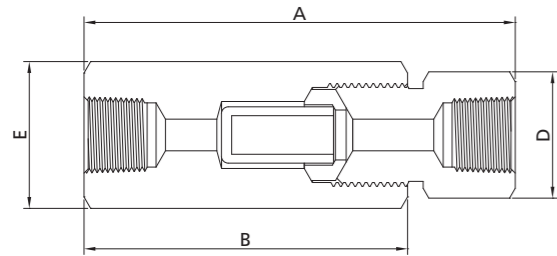
- Compact design.
- The filter elements can be quickly and easily replaced.
- Pipe Cup-Type Line Filters are recommended in high pressure systems requiring both maximum filter surface area and high flow rates. Cup-Type Line Filters are widely used in chemical processing and industrial fields. The cup design of this filter offers about six times the effective filter area as compared to disc-type units.
- Nominal pore sizes for filter element: 5, 35 and 65 µm.
- 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.
- Working temperature: -60°F to 400°F (-50°C to 204°C)
- Pressure differential not to exceed 1000 psig (69 bar) in a flowing condition.

### Standard Materials of Construction



Item	Component	Valve Material
1	Body	316 SS/A479
2	Filter Element	Sintered 316 SS
3	Cover	316 SS/A479
4	Gland Nut	316 SS/A479
	Lubricant	Molybdenum disulfide

### Technical Data and Dimensions



Ordering Number	Connection Type	Orifice in. (mm)	Nominal Pore Size	Effective Filter Element Area in. <sup>2</sup> (mm <sup>2</sup> )	in. (mm)				Pressure @ Room Temperature psig (bar)
					A	B	D (Hex)	E (Hex)	
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						

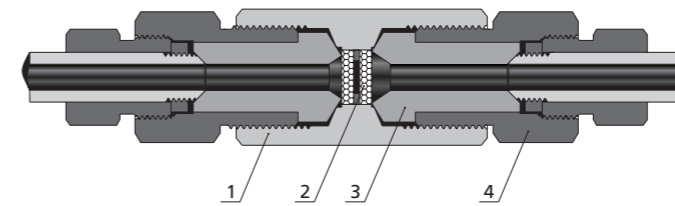
## 20FD Series

### Dual-Disc Line Filters

### Features

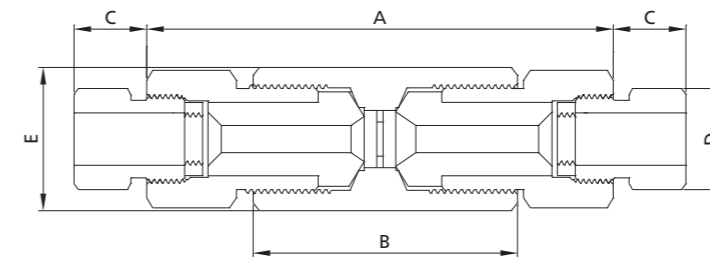
- Dual-Disc Line Filters are utilized in chemical processing, aerospace, nuclear and other applications.
- The large contaminant particles are filtrated by upstream element. The rest of contaminant particles are filtrated by downstream element.
- Compact design.
- Easy to replace filter element.
- Standard sizes of downstream/upstream nominal pore are 5/10, 10/35 and 35/65 µm. Other element combinations are available on special order.
- 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.
- Working temperature: -60°F to 660°F (-50°C to 350°C)
- Pressure differential not to exceed 1000 psig (69 bar) in a flowing condition.

### Standard Materials of Construction



Item	Component	Valve Material
1	Body	316 SS/A479
2	Filter Element	Sintered 316 SS
3	Cover	316 SS/A479
4	Gland Nut	316 SS/A479
	Lubricant	Molybdenum disulfide

### Technical Data and Dimensions



Ordering Number	Connection Type	Orifice in. (mm)	Nominal Pore Size	Effective Filter Element Area in. <sup>2</sup> (mm <sup>2</sup> )	in. (mm)					Pressure @ Room Temperature psig (bar)
					A	B	C	D (Hex)	E (Hex)	
20FDSS-2FH9-0510	2FH9	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-2FH9-1035			10/35							
20FDSS-2FH9-3565			35/65							

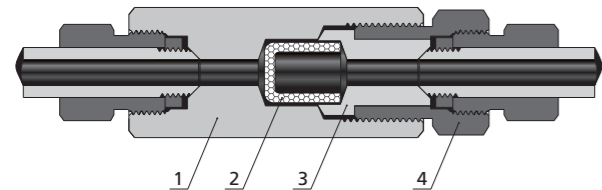
# 20FC Series

## Cup-Type Line Filters

### Features

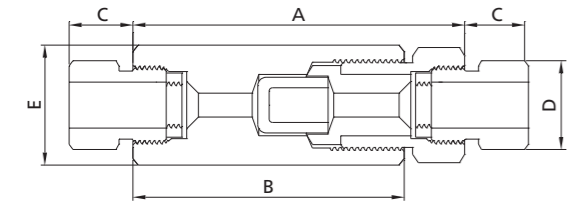
- Tube sizes available for 1/4", 3/8", 9/16", 3/4" and 1"
- Compact design
- The filter elements can be quickly and easily replaced
- Cup-Type Line Filters are recommended in high pressure systems requiring both maximum filter surface area and high flow rates. Cup-Type Line Filters are widely used in chemical processing and industrial fields. The cup design of this filter offers about six times the effective filter area as compared to disc-type units.
- Nominal pore sizes for filter element: 5, 35 and 65 µm
- 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.
- Working temperature: -60°F to 660°F (-50°C to 350°C).
- Pressure differential not to exceed 1000 psig (69 bar) in a flowing condition.

### Standard Materials of Construction



Item	Component	Valve Material
1	Body	316 SS/A479
2	Filter Element	Sintered 316 SS
3	Cover	316 SS/A479
4	Gland Nut	316 SS/A479
	Lubricant	Molybdenum disulfide

### Technical Data and Dimensions



Ordering Number	Connection Type	Orifice in. (mm)	Nominal Pore Size	Effective Filter Element Area in. <sup>2</sup> (mm <sup>2</sup> )	in. (mm)					Pressure @ Room Temperature psig (bar)
					A	B	C	D (Hex)	E (Hex)	
20FCSS-2FH4-5	2FH4	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-2FH4-35			35							
20FCSS-2FH4-65			65							
20FCSS-2FH6-5	2FH6	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-2FH6-35			35							
20FCSS-2FH6-65			65							
20FCSS-2FH9-5	2FH9	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-2FH9-35			35							
20FCSS-2FH9-65			65							
20FCSS-2FH12-5	2FH12	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-2FH12-35			35							
20FCSS-2FH12-65			65							
20FCSS-2FH16-5	2FH16	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-2FH16-35			35							
20FCSS-2FH16-65			65							

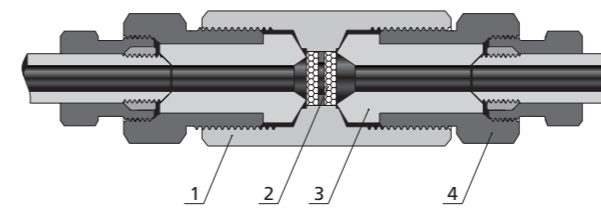
# 60FD Series

## Dual-Disc Line Filters

### Features

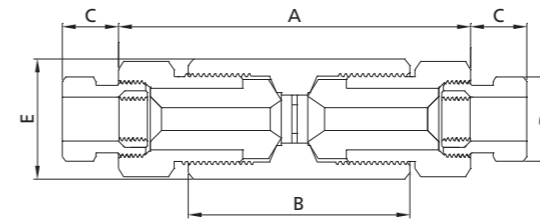
- Tube sizes available for 1/4", 3/8" and 9/16".
- Dual-Disc Line Filters are utilized in chemical processing, aerospace, nuclear and other applications.
- The large contaminant particles are filtrated by upstream element. The rest of contaminant particles are filtrated by downstream element.
- Compact design.
- Easy to replace filter element.
- Standard sizes of downstream/upstream nominal pore are 5/10, 10/35 and 35/65 µm. Other element combinations are available on special order.
- 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.
- Working temperature: -60°F to 660°F (-50°C to 350°C)
- Pressure differential not to exceed 1000 psig (69 bar) in a flowing condition.

### Standard Materials of Construction



Item	Component	Valve Material
1	Body	316 SS/A479
2	Filter Element	Sintered 316 SS
3	Cover	316 SS/A479
4	Gland Nut	316 SS/A479
	Lubricant	Molybdenum disulfide

### Technical Data and Dimensions



Ordering Number	Connection Type	Orifice in. (mm)	Nominal Pore Size	Effective Filter Element Area in. <sup>2</sup> (mm <sup>2</sup> )	in. (mm)					Pressure @ Room Temperature psig (bar)
					A	B	C	D (Hex)	E (Hex)	
60FDSS-6FH4-0510	6FH4	0.09 (2.4)	5/10	0.07 (45.2)	4.75 (120.1)	3.00 (76.2)	0.47 (11.9)	0.63 (15.9)	1.19 (30.2)	60,000 (4137)
60FDSS-6FH4-1035			10/35							
60FDSS-6FH4-3565			35/65							
60FDSS-6FH6-0510	6FH6	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-6FH6-1035			10/35							
60FDSS-6FH6-3565			35/65							
60FDSS-6FH9-0510	6FH9	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-6FH9-1035			10/35							
60FDSS-6FH9-3565			35/65							

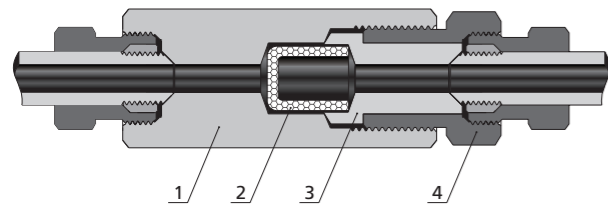
# 60FC Series

## Cup-Type Line Filters

### Features

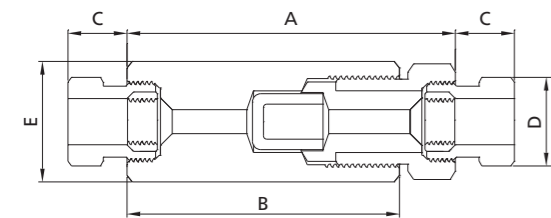
- Tube sizes available for 1/4", 3/8" and 9/16"
- Compact design
- The filter elements can be quickly and easily replaced.
- Cup-Type Line Filters are recommended in high pressure systems requiring both maximum filter surface area and high flow rates. Cup-Type Line Filters are widely used in chemical processing and industrial fields. The cup design of this filter offers about six times the effective filter area as compared to disc-type units
- Nominal pore sizes for filter element: 5, 35 and 65 µm
- 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
- Working temperature: -60°F to 660°F (-50°C to 350°C)
- Pressure differential not to exceed 1000 psig (69 bar) in a flowing condition

### Standard Materials of Construction



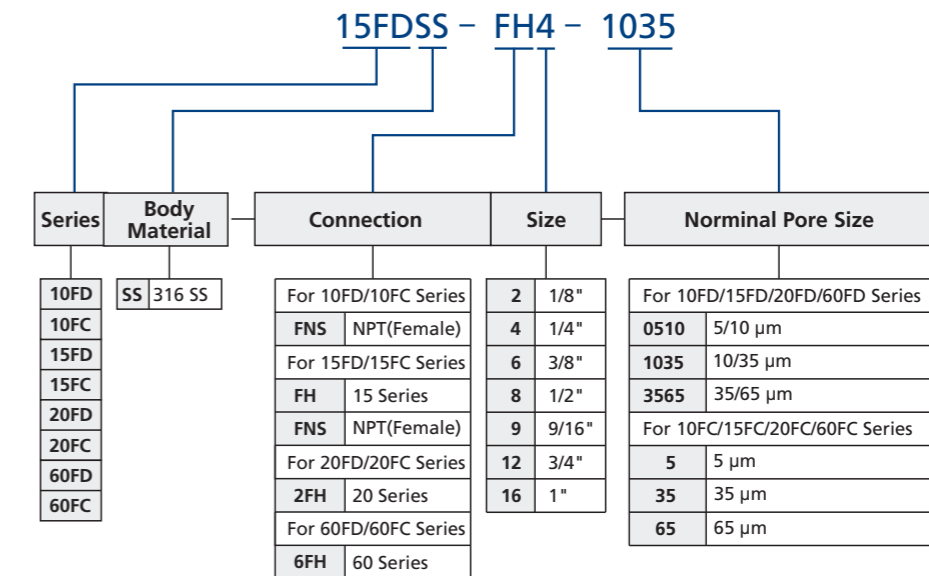
Item	Component	Valve Material
1	Body	316 SS/A479
2	Filter Element	Sintered 316 SS
3	Cover	316 SS/A479
4	Gland Nut	316 SS/A479
	Lubricant	Molybdenum disulfide

### Technical Data and Dimensions



Ordering Number	Connection Type	Orifice in. (mm)	Nominal Pore Size	Effective Filter Element Area in. <sup>2</sup> (mm <sup>2</sup> )	in. (mm)					Pressure @ Room Temperature psig (bar)
					A	B	C	D (Hex)	E (Hex)	
60FCSS-6FH4-5	6FH4	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-6FH4-35			35							
60FCSS-6FH4-65			65							
60FCSS-6FH6-5	6FH6	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-6FH6-35			35							
60FCSS-6FH6-65			65							
60FCSS-6FH9-5	6FH9	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-6FH9-35			35							
60FCSS-6FH9-65			65							

### 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.