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)

Contents

10FD Series

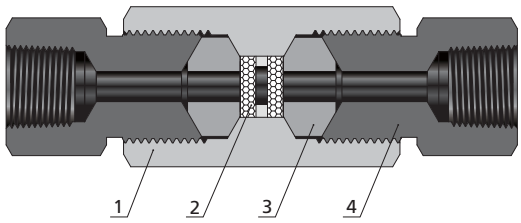
10,000 psig (690 bar)

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

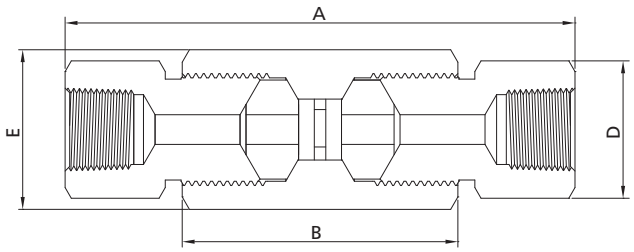
Standard Materials of Construction



Item	Component	Material Grade/ASTM Specification
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

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 (mm²)	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: 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.

10FC Series

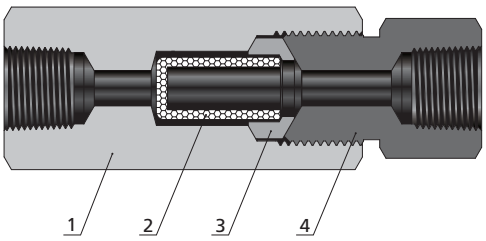
10,000 psig (690 bar)

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

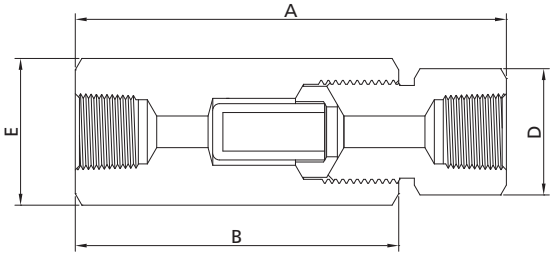
Standard Materials of Construction



Item	Component	Material Grade/ASTM Specification
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

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 (mm²)	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: 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.

15FD Series

15,000 psig (1034 bar)

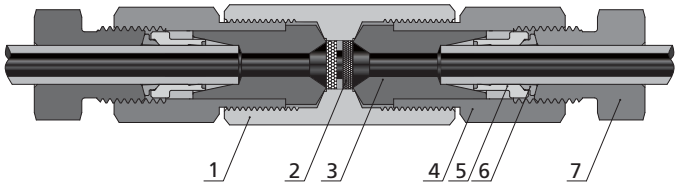
Dual-Disc Line Filters

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

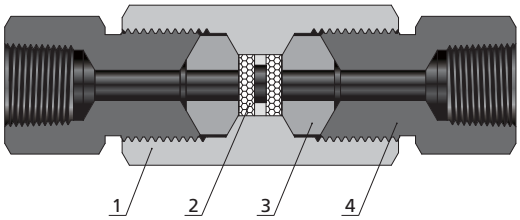
Standard Materials of Construction

Tubing Connection



Item	Component	Material Grade/ASTM Specification
1	*Body*	*316 SS/A479*
2	*Filter Element*	*Sintered 316 SS*
3	*Cover*	*316 SS/A479*
4	Gland Nut	316 SS/A479
5	*Front Ferrule*	*316 SS/A479*
6	Rear Ferrule	316 SS/A479
7	Nut	316 SS/A479
	Lubricant	Molybdenum disulfide

Pipe Connection

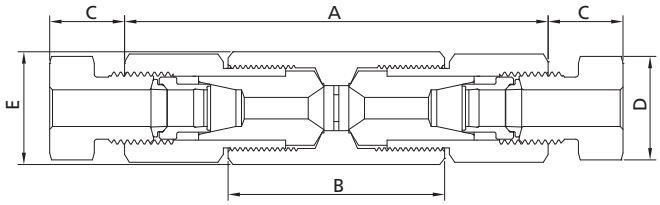


Item	Component	Material Grade/ASTM Specification
1	*Body*	*316 SS/A479*
2	*Filter Element*	*Sintered 316 SS*
3	*Cover*	*316 SS/A479*
4	*Gland Nut*	*316 SS/A479*
	Lubricant	Molybdenum disulfide

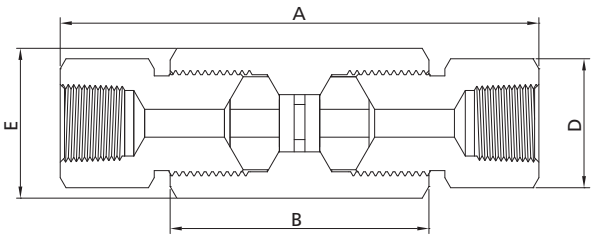
Wetted component listed in italics.

Ordering Information and Dimensions

Tubing Connection



Pipe Connection



Ordering Number	Connection	Orifice in. (mm)	Nominal Pore Size (μm)	Effective Filter Element Area in.² (mm²)	Dimensions, in. (mm)					Working Pressure psig (bar)
					A	B	C	D (Hex)	E (Hex)	
15FDSS-DHL2-0510	DHL2	0.09 (2.4)	5/10	0.06 (38.7)	2.70 (68.5)	1.50 (38.1)	0.44 (11.2)	0.37 (9.5)	0.63 (15.9)	15,000 (1034)
15FDSS-DHL2-1035			10/35							
15FDSS-DHL2-3565			35/65							
15FDSS-DHL4-0510	DHL4	0.13 (3.2)	5/10	0.15 (96.8)	3.50 (88.8)	2.00 (50.8)	0.52 (13.3)	0.63 (15.9)	0.81 (20.6)	15,000 (1034)
15FDSS-DHL4-1035			10/35							
15FDSS-DHL4-3565			35/65							
15FDSS-DHL6-0510	DHL6	0.13 (3.2)	5/10	0.15 (96.8)	3.63 (92.1)	2.19 (55.6)	0.54 (13.6)	0.75 (19.1)	1.00 (25.4)	15,000 (1034)
15FDSS-DHL6-1035			10/35							
15FDSS-DHL6-3565			35/65							
15FDSS-DHL8-0510	DHL8	0.19 (4.8)	5/10	0.25 (161.3)	4.66 (118.3)	2.94 (74.6)	0.60 (15.3)	0.94 (23.8)	1.19 (30.2)	15,000 (1034)
15FDSS-DHL8-1035			10/35							
15FDSS-DHL8-3565			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: 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.

15FC Series

15,000 psig (1034 bar)

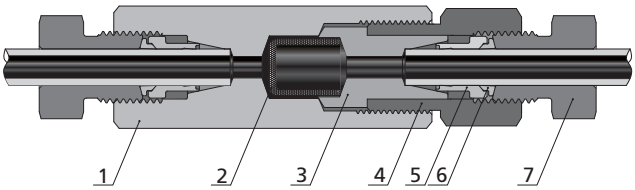
Cup-Type Line Filters

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

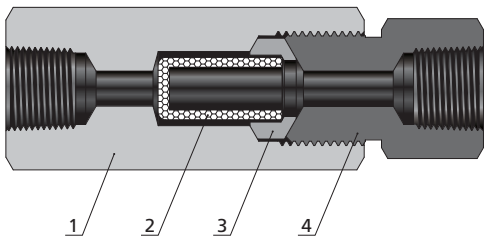
Standard Materials of Construction

Tubing Connection



Item	Component	Material Grade/ASTM Specification
1	*Body*	*316 SS/A479*
2	*Filter Element*	*Sintered 316 SS*
3	*Cover*	*316 SS/A479*
4	Gland Nut	316 SS/A479
5	*Front Ferrule*	*316 SS/A479*
6	Rear Ferrule	316 SS/A479
7	Nut	316 SS/A479
	Lubricant	Molybdenum disulfide

Pipe Connection

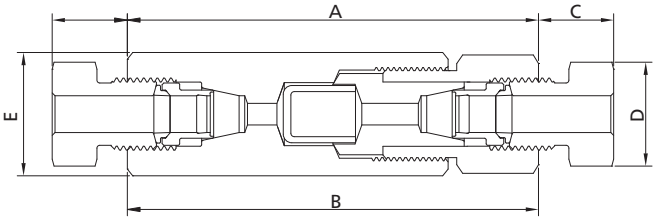


Item	Component	Material Grade/ASTM Specification
1	*Body*	*316 SS/A479*
2	*Filter Element*	*Sintered 316 SS*
3	*Cover*	*316 SS/A479*
4	*Gland Nut*	*316 SS/A479*
	Lubricant	Molybdenum disulfide

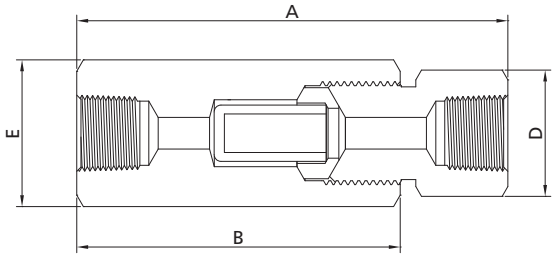
Wetted component listed in italics.

Ordering Information and Dimensions

Tubing Connection



Pipe Connection



Ordering Number	Connection	Orifice in. (mm)	Nominal Pore Size (μm)	Effective Filter Element Area in.² (mm²)	Dimensions, in. (mm)					Working Pressure psig (bar)
					A	B	C	D (Hex)	E (Hex)	
15FCSS-DHL4-5	DHL4	0.19 (4.8)	5	0.81 (522.6)	3.50 (88.8)	2.72 (69.0)	0.52 (13.3)	0.63 (15.9)	0.81 (20.6)	15,000 (1034)
15FCSS-DHL4-35			35							
15FCSS-DHL4-65			65							
15FCSS-DHL6-5	DHL6	0.31 (7.9)	5	0.81 (522.6)	3.89 (98.8)	3.17 (80.4)	0.54 (13.6)	0.75 (19.1)	1.00 (25.4)	15,000 (1034)
15FCSS-DHL6-35			35							
15FCSS-DHL6-65			65							
15FCSS-DHL8-5	DHL8	0.44 (11.1)	5	1.53 (987.1)	4.45 (113.0)	3.63 (92.3)	0.60 (15.3)	0.94 (23.8)	1.38 (35.0)	15,000 (1034)
15FCSS-DHL8-35			35							
15FCSS-DHL8-65			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: 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.

20FD Series

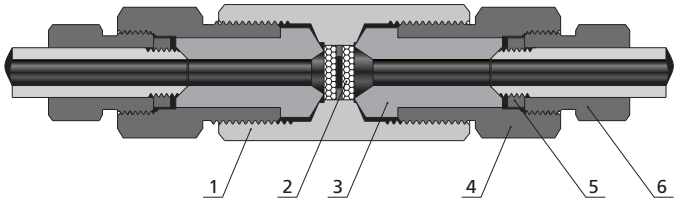
20,000 psig (1379 bar)

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

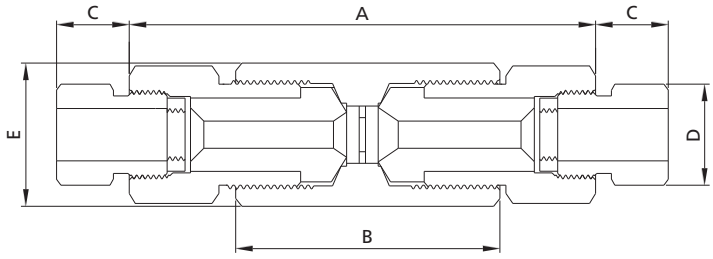
Standard Materials of Construction



Item	Component	Material Grade/ASTM Specification
1	*Body*	*316 SS/A479*
2	*Filter Element*	*Sintered 316 SS*
3	*Cover*	*316 SS/A479*
4	Gland Nut	316 SS/A479
5	Collar	316 SS/A479
6	Gland	316 SS/A479
	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 (mm²)	Dimensions, in. (mm)					Working Pressure 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							

NOTE: 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.

20FC Series

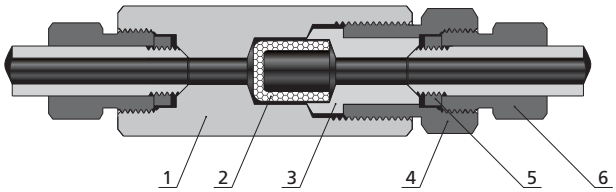
20,000 psig (1379 bar)

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

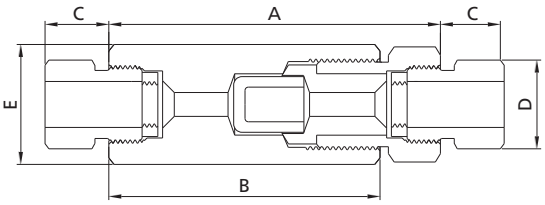
Standard Materials of Construction



Item	Component	Material Grade/ASTM Specification
1	*Body*	*316 SS/A479*
2	*Filter Element*	*Sintered 316 SS*
3	*Cover*	*316 SS/A479*
4	Gland Nut	316 SS/A479
5	Collar	316 SS/A479
6	Gland	316 SS/A479
	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 (mm²)	Dimensions, in. (mm)					Working Pressure 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							

NOTE: 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.

60FD Series

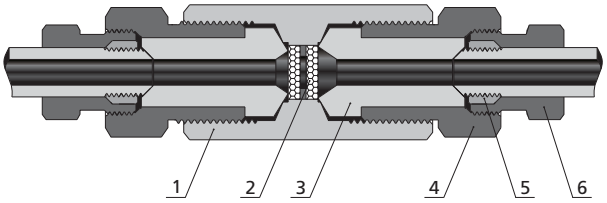
60,000 psig (4137 bar)

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

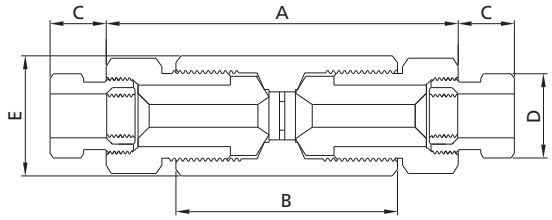
Standard Materials of Construction



Item	Component	Material Grade/ASTM Specification
1	*Body*	*316 SS/A479*
2	*Filter Element*	*Sintered 316 SS*
3	*Cover*	*316 SS/A479*
4	Gland Nut	316 SS/A479
5	Collar	316 SS/A479
6	Gland	316 SS/A479
	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 (mm²)	Dimensions, in. (mm)					Working Pressure psig (bar)
					A	B	C	D (Hex)	E (Hex)	
60FDSS-6FH4-0510	6FH4	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-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							

NOTE: 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.

60FC Series

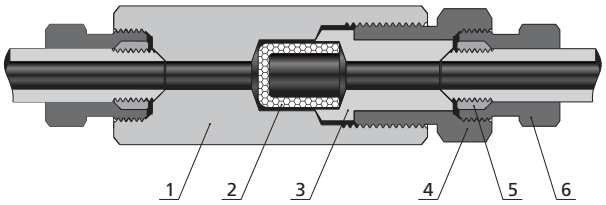
60,000 psig (4137 bar)

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

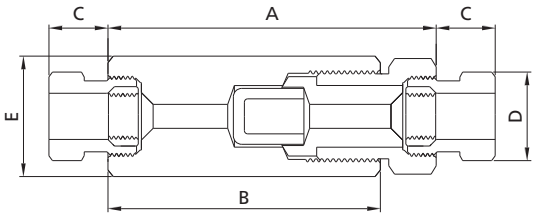
Standard Materials of Construction



Item	Component	Material Grade/ASTM Specification
1	*Body*	*316 SS/A479*
2	*Filter Element*	*Sintered 316 SS*
3	*Cover*	*316 SS/A479*
4	Gland Nut	316 SS/A479
5	Collar	316 SS/A479
6	Gland	316 SS/A479
	Lubricant	Molybdenum disulfide

Wetted component listed in italics.

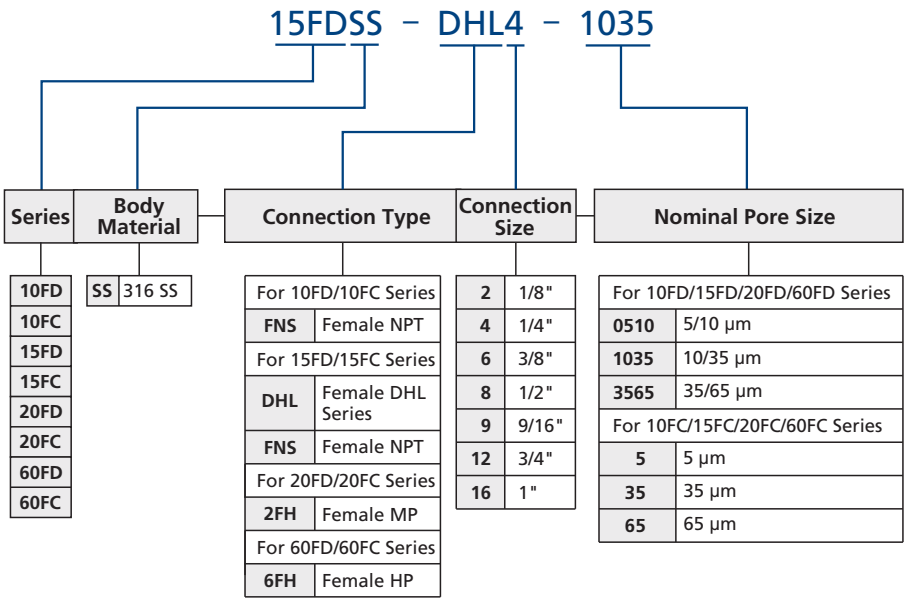
Ordering Information and Dimensions



Ordering Number	Connection	Orifice in. (mm)	Nominal Pore Size (µm)	Effective Filter Element Area in.² (mm²)	Dimensions, in. (mm)					Working Pressure 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							

NOTE: 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.

Ordering Number Description



NOTE: "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.

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: +1 281 582 4051

FITOK Incorporated
Block C, Zone E, Yingtai Industrial Park, Dalang Street,
Longhua New 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

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