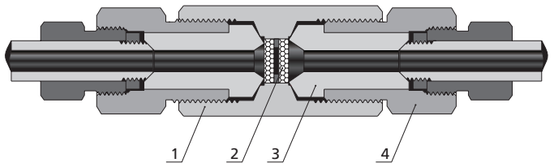
20FD Series

Dual-Disc Line Filters

Features

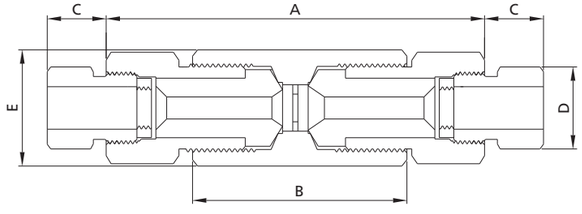
- Dual-Disc Line Filters are utilized in chemical processing, aerospace, nuclear and other applications.
- The large contaminant particles are filtrated by upstream element. The rest of contaminant particles are filtrated by downstream element.
- Compact design.
- Easy to replace filter element.
- Standard 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.² (mm²)	A	B	C	D (Hex)	E (Hex)	Pressure @ Room Temperature psig (bar)
					in. (mm)					
20FDSS-FH9-0510	2FH9	0.31 (7.9)	5/10	0.25 (161.3)	4.30 (109.2)	2.94 (74.6)	0.53 (13.5)	0.93 (23.6)	1.38 (35.0)	20,000 (1379)
20FDSS-FH9-1035			10/35							
20FDSS-FH9-3565			35/65							

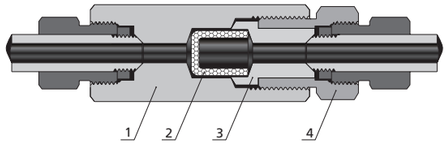
20FC Series

Cup-Type Line Filters

Features

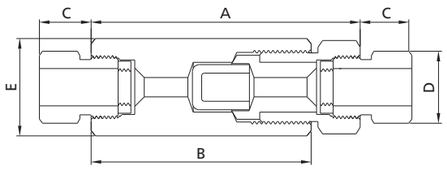
- Tube sizes available for 1/4", 3/8", 9/16", 3/4" and 1".
- Compact design.
- The filter elements can be quickly and easily replaced.
- Cup-Type Line Filters are recommended in high pressure systems requiring both maximum filter surface area and high flow rates. Cup-Type Line Filters are widely used 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.² (mm²)	A	B	C	D (Hex)	E (Hex)	Pressure @ Room Temperature psig (bar)
					in. (mm)					
20FCSS-FH4-5	2FH4	0.13 (3.2)	5	0.81 (522.6)	2.94 (74.7)	2.50 (63.5)	0.38 (9.65)	0.50 (12.7)	0.81 (20.6)	20,000 (1379)
20FCSS-FH4-35			35							
20FCSS-FH4-65			65							
20FCSS-FH6-5	2FH6	0.22 (5.5)	5	0.81 (522.6)	3.12 (79.3)	2.62 (66.6)	0.47 (11.9)	0.63 (15.9)	1.00 (25.4)	20,000 (1379)
20FCSS-FH6-35			35							
20FCSS-FH6-65			65							
20FCSS-FH9-5	2FH9	0.36 (9.1)	5	1.53 (987.1)	4.18 (106.2)	3.50 (88.9)	0.53 (13.5)	0.93 (23.6)	1.38 (35.0)	20,000 (1379)
20FCSS-FH9-35			35							
20FCSS-FH9-65			65							
20FCSS-FH12-5	2FH12	0.52 (13.1)	5	2.65 (1709.7)	5.50 (139.7)	4.75 (120.7)	0.62 (15.7)	1.19 (30.2)	1.75 (44.5)	20,000 (1379)
20FCSS-FH12-35			35							
20FCSS-FH12-65			65							
20FCSS-FH16-5	2FH16	0.69 (17.5)	5	5.00 (3225.8)	6.62 (168.2)	5.75 (146.1)	0.72 (18.3)	1.38 (35.0)	2.12 (53.1)	20,000 (1379)
20FCSS-FH16-35			35							
20FCSS-FH16-65			65							