

CUP-TYPE AND DUAL-DISC LINE FILTERS

Pressures up to 60,000 psi

Available in standard porosity ranges (0.5 μ to 100 μ), medium and high pressure cup-type and dual-disc line filters ensure optimal performance of your system. Designed to meet both pressure and filtration requirements, both cup-type and dual-disc line filter solutions utilize sintered stainless steel while body and end cover materials have been designed with high tensile 316 stainless steel. All filter elements have been meticulously engineered to withstand pressure surges and high flow rates to minimize risk to filter integrity.

CUP-TYPE FILTERS

- Designed to optimize maximum filter surface area and enable higher flow rates compared to a disc-type line filter. Due to the manner in which cup-type filters interface with process particles, filter elements can last several times longer than dual-disc line filters.
- **MATERIALS** –
Body, Cover, Cover Gland: 316 series stainless steel
Filter Element: 300 series stainless steel
- **TEMPERATURE RANGE** – -423°F to 1,200°F
(-253°C to 649°C)

DUAL-DISC LINE FILTERS

- Dual-disc design provides a segmented filtration system where larger particles are first trapped by the upstream filter, leaving smaller impurities to be caught by the subsequent smaller micron filter. Dual-disc filters provide optimal protection with this “gated” system and are simple to replace when routine maintenance is required.
- **MATERIALS** –
Body, Cover, Cover Gland: 316 series stainless steel
Filter Element: 300 series stainless steel
- **TEMPERATURE RANGE** – -40°F to 450°F
(-40°C to 232°C)



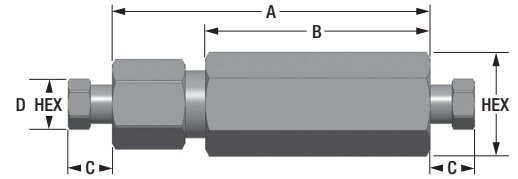
TYPICAL APPLICATIONS

- ▶ Chemical Processing
- ▶ Hydrogen Fueling
- ▶ Research and Laboratory
- ▶ Industrial
- ▶ Nuclear
- ▶ Aerospace

CUP-TYPE FILTERS

Precise Performance Measured to the Micron

Additional non-standard micron sizes available via special order.



CUP-TYPE FILTERS

PART NUMBER	CONNECTION TYPE	PRESSURE RATING PSI (BAR)	ORIFICE INCHES (MM)	MICRON SIZE	EFFECTIVE FILTER ELEMENT AREA	DIMENSIONS INCHES (MM)				
						A	B	C	D	HEX
20-52LF4	LF4 1/4 in Medium Pressure	20,000 (1,378.93)	0.125 (3.18)	100	0.618 (399.03)	3.53 (89.66)	2.50 (63.5)	0.49 (12.44)	0.50 (12.70)	1.00 (25.40)
20-52LF4-40				40						
20-52LF4-10				10						
20-52LF4-5				5						
20-52LF4-2				2						
20-52LF6	LF6 3/8 in Medium Pressure		0.219 (5.56)	100	0.618 (399.03)	3.53 (89.66)	2.50 (63.5)	0.57 (14.48)	0.63 (16.00)	1.00 (25.40)
20-52LF6-40				40						
20-52LF6-10				10						
20-52LF6-5				5						
20-52LF6-2				2						
20-52LF9	LF9 9/16 in Medium Pressure		0.359 (9.12)	100	1.278 (824.48)	4.50 (114.30)	3.25 (82.55)	0.74 (18.80)	0.88 (22.35)	1.38 (35.05)
20-52LF9-40				40						
20-52LF9-10				10						
20-52LF9-5				5						
20-52LF9-2				2						
20-52LF12	LF12 3/4 in Medium Pressure	0.516 (13.11)	100	2.824 (1,821.87)	5.11 (129.79)	4.31 (109.47)	0.75 (19.05)	1.13 (28.70)	1.75 (44.45)	
20-52LF12-40			40							
20-52LF12-10			10							
20-52LF12-5			5							
20-52LF12-2			2							
20-52LF16	LF16 1 in Medium Pressure	0.690 (17.53)	100	3.210 (2,071.17)	6.54 (166.12)	5.25 (133.35)	0.84 (21.34)	1.38 (35.05)	2.25 (57.15)	
20-52LF16-40			40							
20-52LF16-10			10							
20-52LF16-5			5							
20-52LF16-2			2							

DUAL-DISC LINE FILTERS

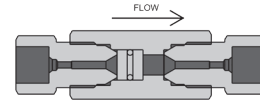
Precise Performance Measured to the Micron

Additional non-standard micron sizes available via special order.

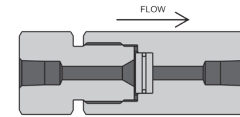
DUAL-DISC LINE FILTERS

100/40 micron combination is standard, 40/10 and 10/5 are also available. Other combinations can be special ordered.

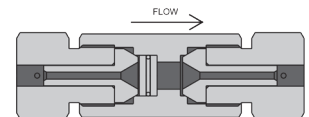
PART NUMBER	PRESSURE RATING PSI (BAR)	CONNECTIONS	LENGTH IN (MM)	HEX SIZE IN (MM)	MICRON SIZE FILTER AVAILABLE					
					0.5	2	5	10	40	100
15-51AF1	15,000 (1,034.21)	1/16 in Taper Seal	3-1/8 (79.38)	3/4 (19.05)	•	•	•	•	•	•
15-51AF2		1/8 in Taper Seal	3-1/8 (79.38)	3/4 (19.05)	•	•	•	•	•	•
10-51AF4	10,000 (689.48)	1/4 in Taper Seal	5-1/4 (133.35)	1-3/8 (34.93)	•	•	•	•	•	•
10-51AF6		3/8 in Taper Seal	5-1/4 (133.35)	1-3/8 (34.93)	•	•	•	•	•	•



PART NUMBER	PRESSURE RATING PSI (BAR)	CONNECTIONS	A-B	LENGTH IN (MM)	HEX SIZE IN (MM)	MICRON SIZE FILTER AVAILABLE					
						0.5	2	5	10	40	100
15-51NFA	15,000 (1,034.21)	1/8 in FNPT	NFA	3-3/16 (80.96)	1-3/8 (34.93)	•	•	•	•	•	•
15-51NFB		1/4 in FNPT	NFB	4-3/16 (106.36)	1-3/8 (34.93)	•	•	•	•	•	•
15-51NFC		3/8 in FNPT	NFC	4-3/16 (106.36)	1-3/8 (34.93)	•	•	•	•	•	•
15-51NFD		1/2 in FNPT	NFD	4-3/16 (106.36)	1-3/8 (34.93)	•	•	•	•	•	•



PART NUMBER	TUBING O.D. IN	PRESSURE RATING PSI (BAR)	CONNECTIONS	ORIFICE IN (MM)	LENGTH IN (MM)	THICKNESS IN (MM)	MICRON SIZE FILTER AVAILABLE					
							0.5	2	5	10	40	100
20-51LF4	1/4	20,000 (1,378.95)	LF4	1/8 (45.72)	5-1/4 (133.35)	1-3/8 (34.93)	•	•	•	•	•	•
20-51LF6	3/8		LF6	7/32 (5.56)	5-23/64 (136.13)	1-3/8 (34.93)	•	•	•	•	•	•
20-51LF9	9/16		LF9	23/64 (9.13)	5-23/64 (136.13)	1-3/8 (34.93)	•	•	•	•	•	•
20-51LF12	3/4		LF12	7/16 (11.11)	4-11/64 (105.97)	1-3/4 (44.45)	•	•	•	•	•	•
20-51LF16	1		LF16	11/16 (17.46)	5-13/64 (132.16)	2-1/4 (57.15)	•	•	•	•	•	•



PART NUMBER	PRESSURE RATING PSI (BAR)	CONNECTIONS	LENGTH IN (MM)	HEX SIZE IN (MM)	MICRON SIZE FILTER AVAILABLE					
					0.5	2	5	10	40	100
40F-51HF9	40,000 (2,757.9)	9/16 in High Pressure	5-3/4 (146.05)	1-1/2 (38.1)	•	•	•	•	•	•
60F-51HF2	60,000 (4,136.85)	1/8 in High Pressure	4-11/16 (119.06)	1-1/2 (38.1)	•	•	•	•	•	•
60F-51HF4		1/4 in High Pressure	4-7/8 (123.83)	1-1/2 (38.1)	•	•	•	•	•	•
60F-51HF6		3/8 in High Pressure	5-1/4 (133.35)	1-1/2 (38.1)	•	•	•	•	•	•
60F-51HF9		9/16 in High Pressure	5-3/4 (146.05)	1-1/2 (38.1)	•	•	•	•	•	•

