

Fluoroflow® Cartridges

All-fluoropolymer cartridge for effective filtration of aggressive chemicals

Fluoroflow® pleated filter cartridges feature an all-fluoropolymer construction; this provides the highest chemical resistance when filtering acids, bases and solvents. Fluoroflow® cartridges fit standard filter housings and are available in a variety of filter ratings, lengths and end-fittings for maximum versatility. Fluoroflow® cartridges are available flushed with UPW to minimize extractables and wet-packed to eliminate the need for on-site wetting, to fit your needs.

The Fluorflow Cartridge is available in 0.05, 0.1, 0.2, 0.45, 1 and 100µm pore sizes.



Benefits

- High chemical compatibility maximizes process capability
- Wet-packed option eliminates lengthy wetting procedure and minimizes equipment downtime
- Biosafe in accordance with USP Class VI 121°C Plastics Test

Applications

- Aggressive chemicals and process fluids at temperatures up to 150°C
- Ozonated and/or hot UPW

Fluoroflow®

Specifications

Materials of Construction

100% Fluoropolymer construction

Effective Filtration Area

6.8ft² (0.63m²) per nominal 10" (250mm) cartridge

Metals Extractables

<20ppb (total) in a 10% HNO₃ extraction of 1.5 liters for 24 hours at ambient temperature

Maximum Differential Pressure

Forward:

80psid (5.5bar) @ 75°F (24°C)

55psid (3.8bar) @ 167°F (75°C)

30psid (2.0bar) @ 257°F (125°C)

15psid (1.0bar) @ 300°F (150°C)

Reverse:

50psid (3.4bar) @ 75°F (24°C)

15psid (1.0bar) @ 250°F (121°C)

Cleanliness (particle shedding)

Wet-packed <2 particles/ml >0.2µm after 7gal at 1gpm

TOC/Resistivity Rinse-up (wet-packed)

TOC recovery within 3-5ppb of feed without additional rinse-up.

Resistivity recovery within 0.4megohm-cm of feed after 22gal @ 1gpm

Performance Attributes

Water in Flow rates, Typical *

0.05µm 0.9gpm/psid (4.9lpm/100mbar)

0.10µm 2.3gpm/psid (12.7lpm/100mbar)

0.20µm 3.2gpm/psid (17.6lpm/100mbar)

0.45µm 4.7gpm/psid (25.8lpm/100mbar)

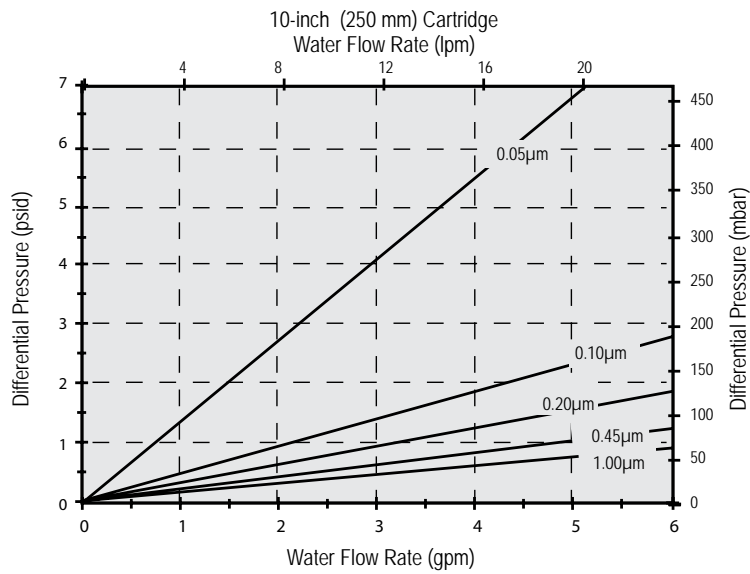
1.00µm 6.7gpm/psid (36.9lpm/100mbar)

* Per 10-inch (250 mm) cartridge equivalent and for fluids with viscosity of 1cP.

Integrity test values

Filter Rating	Bubble Point*		
	µm	psig	bar
0.05		≥40	2.8
0.10		≥21	1.5
0.20		≥13	0.9
0.45		≥7	0.5
1.00		≥3	0.2

* In 60/40 IPA/water @ 25°C



Ordering Information

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End Fitting	
CODE	DESCRIPTION
2	226/Flat
3	222/Flat
7	226/Fin
8	222/Fin

Nominal Length	
CODE	LENGTH
04	4" (102mm)
10	10" (250mm)
20	20" (500mm)
30	30" (750mm)
40	40" (1000mm)

Filter Rating	
CODE	MICRON
925	0.05µm
001	0.1µm
002	0.2µm
004	0.45µm
010	1µm
503	100 (Nominal)

O-Rings	
CODE	MATERIAL
2	Silicone
4	Viton®
5	FEP-Encapsulated Viton®
6	FEP-Encapsulated Silicone
7	Chemraz®
N	None

Options	
CODE	TREATMENT
Blank	UPW Flush
F	Ozone UPW Flush
W	Wet Packed

Specifications are subject to change without notification.

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