

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)

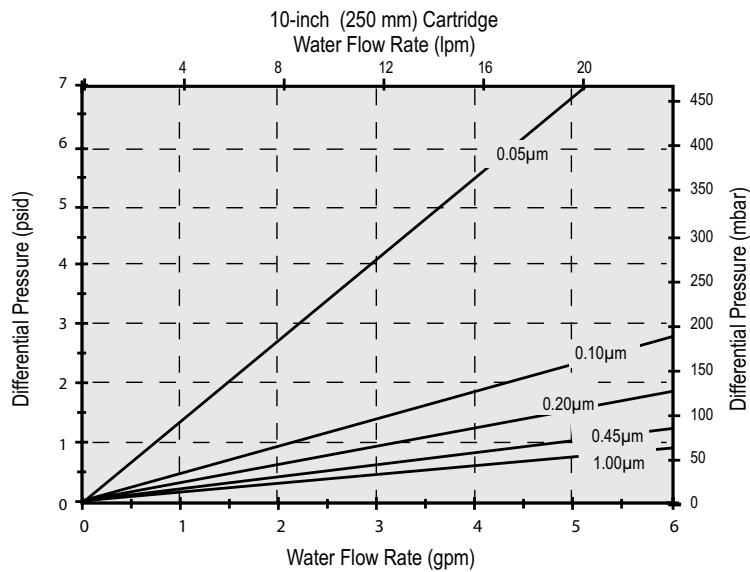
1.00µm 6.7gpm/psid (36.9lpm/100mbar)

* 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		Nominal Length		Filter Rating		O-Rings		Options	
CODE	DESCRIPTION	CODE	LENGTH	CODE	MICRON	CODE	MATERIAL	CODE	TREATMENT
2	226/Flat	04	4" (102mm)	925	0.05µm	2	Silicone	Blank	UPW Flush
3	222/Flat	10	10" (250mm)	001	0.1µm	4	Viton®	F	Ozone UPW Flush
7	226/Fin	20	20" (500mm)	002	0.2µm	5	FEP-Encapsulated	W	Wet Packed
8	222/Fin	30	30" (750mm)	004	0.45µm		Viton®		
		40	40" (1000mm)	010	1µm	6	FEP-Encapsulated		
				503	100 (Nominal)		Silicone		
						7	Chemraz®		
						N	None		

Specifications are subject to change without notification.

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*Fluoroflow is a registered trademark of Parker Hannifin Corp.

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