

Fluorocap®



All-fluoropolymer capsule for the most aggressive applications

The Fluorocap® encapsulated filter cartridge is our standard product for aggressive wet etch and clean applications. It provides good flow rates and on-stream life at an economical price. The all-fluoropolymer construction provides excellent chemical resistance for the most aggressive applications up to 180°C. Its integral filter design maximizes up-time with safe and simple change-outs. Available wet-packed for quick installation or Ultraclean wet-packed which offers the lowest metals extractables in the industry.



Benefits

- Economical
- Wide range of configurations and ratings
- Wet-pack option for quick installation
- Ultraclean option for absolute cleanliness
- All-fluoropolymer for maximum chemical resistance
- 100% integrity tested for consistent quality

Applications

- Wet etch and clean
 - Hot phosphoric acid
 - Sulfuric acid
 - Hydrofluoric acid
 - Nitric acid
 - Piranha
 - SC1, SC2
 - NMP-based solvents
- Other high temperature or ozonated processes

Parker Hannifin Corporation provides our customers with unsurpassed product consistency and cost-efficiency. Our experienced professionals can help you select the right solution for your application. For more information or to place an order, contact your local distributor.

Parker Hannifin Corporation designs and manufactures an extensive line of innovative solutions for specific applications in the Microelectronics, Biopharmaceutical, Food and Beverage, Industrial and Chemical industries.



ENGINEERING YOUR SUCCESS.

Fluorocap®

Specifications

Materials of Construction

100% Fluoropolymer construction
All components are thermally bonded to ensure integrity and reduce extractables.

Effective Filtration Area

9.8 ft² (0.9m²) per 10" filter length

Metals Extractables*

Standard: <20ppb (total)
Ultraclean: <5ppb (total)

*in a 10% HNO₃ extraction

Maximum Differential Pressure/ Temperature

Forward: 80psid (5.5bar) @ 75°F (24°C)
Standard: 55psid (3.8bar) @ 167°F (75°C)
30psid (2.0bar) @ 257°F (125°C)
15psid (1.0bar) @ 300°F (150°C)

Forward: 100psid (6.8bar) @ 75°F (24°C)
HT Option: 75psid (5.1bar) @ 167°F (75°C)
50psid (3.4bar) @ 257°F (125°C)
15psid (1.0bar) @ 356°F (180°C)

Reverse: 50psid (3.4bar) @ 75°F (24°C)
15psid (1.0bar) @ 250°F (121°C)

Performance Attributes

Water Flow rates, Typical*

0.03µm 0.65gpm/psid (3.3lpm/100mbar)
0.05µm 1.5gpm/psid (8.2lpm/100mbar)
0.10µm 3.2gpm/psid (17.6lpm/100mbar)
0.20µm 4.1gpm/psid (22.5lpm/100mbar)
0.45µm 6.6gpm/psid (36.2lpm/100mbar)
1.00µm 8.9gpm/psid (49.0lpm/100mbar)

*Flow rates are for in-line Fluorocaps with 3/4" Parflare fittings.

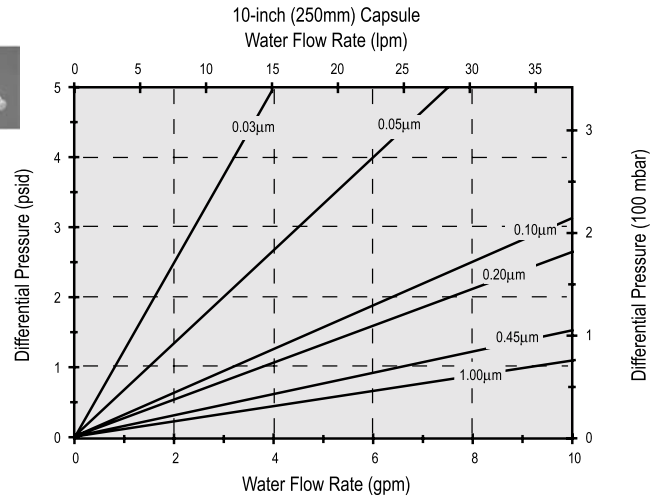
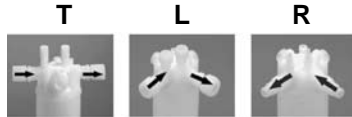
Cleanliness (particle shedding)

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

TOC/Resistivity Rinse-up (wet-packed)

TOC recovery within 3-5ppb of feed after 12gal @ 1gpm. Resistivity recovery within 0.4megohm-cm of feed after 22gal @ 1gpm.

Flow Direction Options



Ordering Information

Each cartridge is identified with a product number, pore size and lot number for traceability.

Style		Treatment		Options		Element Length		Connections*		Vent Alignment		Filter Rating	
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	TEMPERATURE	CODE	LENGTH	CODE	DESCRIPTION	CODE	ALIGNMENT	CODE	MICRON
F	In-Line	C	Dry Packed (STD)	C	Fluorocap-Standard (150°C max)	0	4" (100mm)	B	3/4" Butt weld	S	Same Side	923	0.03µm
		W	Ozonated UPW	H	High Temperature (180°C max)	1	10" (250mm)	C	3/8" Parflare 90°	D	180° Opposite Side	925	0.05µm
		U	Flushed and Wet Packed Ultraclean			2	20" (500mm)	E	1/2" Parflare 90°			001	0.10µm
						3	30" (750mm)	F	3/4" Parflare 90°			002	0.20µm
						4	10" (250mm) (Short)	G	3/4" Parflare			004	0.45µm
								H	3/8" Parflare			010	1.00µm
								J	1/2" Parflare				
									3/4" Flarelock®				

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T	T-Style	C	Dry Packed (STD)	C	Fluorocap-Standard (150°C max)	0	4" (100mm)	F	3/4" Parflare	W	3/4" Pillar	923	0.03µm
L	L-Style (Left)	W	Ozonated UPW	H	High Temperature (180°C max)	1	10" (250mm)	J	3/4" Flarelock®	Y	3/4" SP 300	925	0.05µm
R	R-Style (Right)	U	Flushed and Wet Packed Ultraclean			2	20" (500mm)					001	0.10µm
						3	30" (750mm)					002	0.20µm
						4	10" (250mm) (Short)					004	0.45µm
												010	1.00µm

*Vent/Drain connections are 1/4" versions of the inlet/outlet fittings, except for codes K and W which are 1/2" Pillar vent/drain fittings.



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