

FLUOROCAP®

Encapsulated all-fluoropolymer cartridge for aggressive chemical filtration



FluoroCap encapsulated filters feature an all-fluoropolymer pleated filter cartridge for excellent chemical resistance in aggressive chemical applications. The integral filter design maximizes up-time by providing faster and easier change-out without laborious cleaning protocols. Because the replacement of filter elements is eliminated, the chance of introducing contamination into the process is minimized. FluoroCap increases the level of safety, and reduces the risk of exposure to hazardous materials.

FluoroCap capsules are available flushed with ozonated UPW to further minimize extractables or wet-packed to eliminate on-site wetting for use in aqueous applications.



T

LEFT

RIGHT

BENEFITS

- Integral filter cartridge and housing offers new housing every time
- Chemical resistance increases process capability and compatibility
- Capsules reduce down-time, chance of contamination and risk of exposure to hazardous materials during filter change-out
- All filters are 100% integrity tested before release for reliable product performance
- All capsules are 100% pressure tested to assure reliable product performance

APPLICATIONS

- Aggressive chemicals and process fluids under harsh conditions
- Wet bench and clean

SPECIFICATIONS

Materials of construction

100% Fluoropolymer construction

All components are thermally bonded to ensure integrity and reduce extractables.

Effective filtration area

EFFECTIVE FILTRATION AREA	NOMINAL CAPSULES LENGTH	FILTER LENGTH
4.8ft ² (0.45m ²)	9" (230mm)	4" (100mm)
9.8ft ² (0.9m ²)	17.5" (445mm)	10" (250mm)
19.6ft ² (1.82m ²)	26.25" (660mm)	20" (500mm)
29.4ft ² (2.76m ²)	36.5" (927mm)	30" (750mm)
9.8ft ² (0.9m ²)	14.5" (368mm)	10" (250mm)

Metals extractables

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

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)
High Temp.	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)
Standard and	15psid (1.0bar) @ 250°F (121°C)
High Temp.	

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.

Integrity test values

FILTER RATING	BUBBLE POINT*	
	µm	psig
0.03	≥ 60	4.1
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

FLUOROCAP®

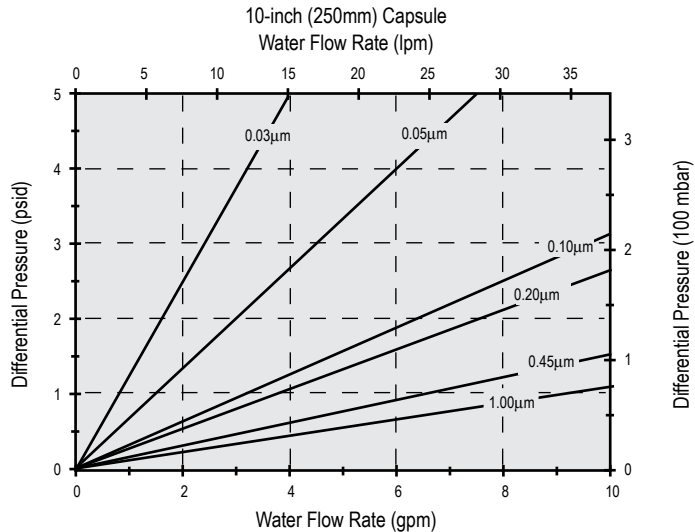
Encapsulated all-fluoropolymer cartridge for aggressive chemical filtration

PERFORMANCE ATTRIBUTES

Water in 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 shown are for FluoroCap filters with 3/4" Parflare™ (in-line) fittings and for fluids with viscosity of 1cP.



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 ⁴		Filter Rating	
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	TEMPERATURE	CODE	LENGTH	CODE	DESCRIPTION	CODE	ALIGNMENT	CODE	MICRON
F ¹	In-Line	C	Dry Packed (STD)	C	Fluorocap-Standard (150°C max)	0	4" (100mm)	B	3/4" Butt weld	K	3/4" Pillar 90°	923	0.03µm
T	T-Style	W	Ozonated UPW	H	High Temperature (180°C max)	1	10" (250mm)	C	3/8" Parflare 90°	P	3/4" MNPT	925	0.05µm
L	L-Style (Left)		Flushed and Wet Packed			2	20" (500mm)	D	1/2" Parflare 90°	W ²	3/4" Pillar	001	0.10µm
R	R-Style (Right)					3	30" (750mm)	E	3/4" Parflare 90°			002	0.20µm
						4 ²	10" (250mm) (Short)	F ³	3/4" Parflare			004	0.45µm
								G	3/8" Parflare			010	1.00µm
								H	1/2" Parflare				
								J	3/4" Flarelock®				

TECHNICAL SUPPORT AND PRODUCT INFORMATION

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. Information on product specifications, applications and chemical compatibility can be found on our web site at www.parker.com or through your nearest Parker Hannifin Corporation office.

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.

DISTRIBUTED BY:



Process Advanced Filtration Division
2340 Eastman Avenue
Oxnard, California, 93030, USA
Toll Free: +1 877 784 2234
Phone: +1 805 604 3400
Fax: +1 805 604 3401
www.parker.com

Specifications are subject to change without notification
© 2006 Parker Hannifin Corporation.
FluoroCap is a registered trademark of Parker Hannifin Corporation.
Parflare is a trademark of Parker Hannifin Corporation.
FlareLock is a trademark of Fluoroware, Inc.