Proflow™ II-E

Chemically-resistant cartridge for ultrapure microelectronics fluids and gases

The Proflow™II-E filter cartridge uses a PTFE membrane along with high-purity polypropylene supports that provide an economical alternative to all-fluoropolymer cartridges. It provides a high degree of retention and cleanliness along with good flow and lifetime. This filter is ideally suited for ultrapure microelectronics fluids and gases. The hydrophobic PTFE membrane serves as a highly efficient barrier to insure low moisture content of gases. It is available dry or wet-packed for quick installation and lower extractables.

Benefits

- Good liquid and gas flow rates
- Wet-pack option for quick installation
- PTFE/ PP construction for chemical resistance
- Wide variety of configurations and ratings
- 100% integrity tested in cleanroom environment

Applications

- Bulk chemical delivery
  – Acids, bases, solvents, photochemicals
- Wet etch and clean
  – Dilute acids
  – DI water (<80°C)
- Ultrapure electronics-grade gases

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.

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Proflow™ II-E

Specifications

Materials of Construction

Membrane	:	PTFE
Support layers	:	Polypropylene
Structure	:	Polypropylene

Effective Filtration Area

4.6ft² (0.43 m²) 5" (130mm) cartridges
9.3ft² (0.86 m²) 10" (250mm) cartridges

Maximum Differential Pressure/ Temperature

Forward: 80psid (5.5bar) @ 75ºF (24ºC)
40psid (2.8bar) @ 180ºF (82ºC)

Reverse: 50psid (3.4bar) @ 75ºF (24ºC)

Cleanliness (particle shedding)

Wet-packed: <1 particles/ml >0.2µm after 6gal at 1gpm

Data as from open bag and installed, no additional installation flushing.

TOC/Resistivity Rinse-up (wet-packed)

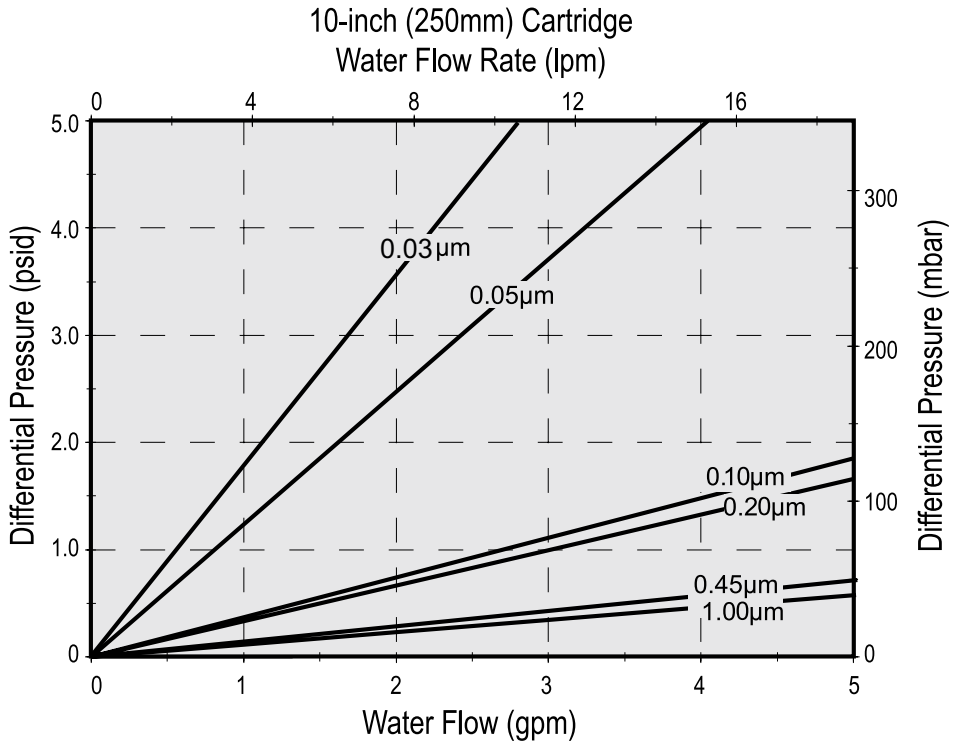
TOC rinse-up to background plus 5ppb of feed after 70gal @ 1gpm. Resistivity rinse-up to background minus 0.2megohm-cm of feed after 30gal @ 1gpm.

Performance Attributes

Water Flow rates, Typical *

0.03µm	0.6gpm/psid (3.31lpm/100mbar)	0.20µm	3.2gpm/psid (17.5lpm/100mbar)
0.05µm	0.8gpm/psid (4.39lpm/100mbar)	0.45µm	7.6gpm/psid (41.72lpm/100mbar)
0.10µm	1.7gpm/psid (9.33lpm/100mbar)	1.00µm	9.1gpm/psid (49.97lpm/100mbar)

*Per 10-inch (250mm) cartridge equivalent.



Ordering Information

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

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Application

CODE	TREATMENT
4	Standard
6	Extended flushed with 18 Megohm DI Water

Insert Style

CODE	DESCRIPTION
1	No Insert
5	(Standard) Encapsulated
6	Stainless Steel Encapsulated Polysulfone
A	1/2" Shortened on 222 Fitting

End Fitting

CODE	DESCRIPTION
0	DOE (Cuno®)
1	DOE
2	226/Flat
3	222/Flat
6	020/Internal/Flat
7	226/Fin
8	222/Fin®
G	120/Internal/ Recessed Endcap
H	213/Recessed Endcap (Ametek)
R	222/Recessed Endcap

Nominal Length

CODE	LENGTH
05	5" (130mm)
10	10" (250mm)
20	20" (500mm)
30	30" (750mm)
40	40" (1000mm)

Filter Rating

CODE	MICRON
923	0.03µm
925	0.05µm
001	0.10µm
002	0.20µm
004	0.45µm
010	1.00µm

Gasket/O-Rings

CODE	MATERIAL
0	Buna N
1	EPDM
2	Silicone
4	Viton®
5*	FEP-Encapsulated Viton
6*	FEP-Encapsulated Silicone
N	None

*O-Rings only

Gaskets

CODE	THICKNESS
1	0.200" (5mm)
2	0.125" (3mm)
4	(1) 0.200" (5mm) & (1) 0.125" (3mm)
N	No Gasket

Options

CODE	TREATMENT
Blank	Standard
W	Wet-packed

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