346

Proflow™ II-E Mini-Cartridges

Small-volume cartridge for ultrapure microelectronics fluids and gases

The Proflow™ II-E mini 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. Its design uses an internal 116 O-ring that is available in several materials.

Benefits

- Good liquid and gas flow rates
- PTFE/ PP construction for chemical resistance
- Secure internal O-ring seal
- 100% integrity tested in cleanroom environment

Applications

- Wet etch and clean
  – Dilute acids
  – DI water (<80°C)
- Ultrapure electronics-grade gases
- Drying systems

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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Specifications

Materials of Construction

Membrane	:	PTFE
Support layers	:	Polypropylene
Structure	:	Polypropylene

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

Effective Filtration Area
3.1ft² (0.29m²) per D-size (125mm) cartridge

Maximum Differential Pressure/ Temperature

Forward: 70psid (4.8bar) @ 75ºF (24ºC)
35psid (2.4bar) @ 140ºF (60ºC)
20psid (1.4bar) @ 167ºF (75ºC)

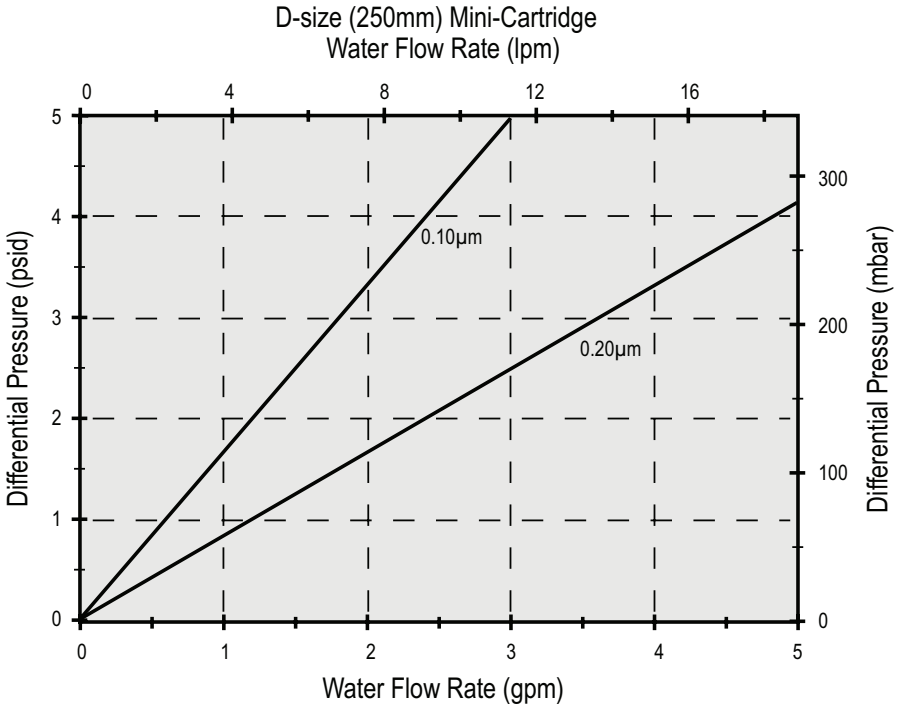
Reverse: 30psid (2.1bar) @ 75ºF (24ºC)

Resistivity Rinse-up
The rinse-up volume required for Proflow-E® mini-cartridges to reach 18megohm-cm resistivity is approximately 12gal (45.4 liters).

Performance Attributes

Water Flow rates, Typical

0.03µm	0.20gpm/psid
0.05µm	0.40gpm/psid
0.45µm	2.6gpm/psid



Ordering Information

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

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Filter Rating	
CODE	MICRON
001	0.1µm
002	0.2µm
923	0.03µm
925	0.05µm
004	0.45µm
010	1.0µm

0-Ring	
CODE	MATERIALS
0	Buna N
1	EPDM
2	Silicone
4	Viton®
N	None

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