Polyflow® Membrane

Polypropylene membrane cartridges for microelectronics

Polyflow® Membrane cartridges are optimized for use in microelectronics applications such as bulk chemicals and photoresists. The all-polypropylene construction is an economical alternative to fluoropolymer-based cartridges.

Every cartridge is fabricated in a clean room environment, pre-flushed with 18 megohm-cm ultrapure DI water, and 100% integrity tested in an ISO-certified facility.

Benefits

- High-retention membrane
- Wide range of configurations and ratings
- 100% integrity tested

Applications

- Bulk photoresist
- Bulk electronics grade chemicals

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.

ENGINEERING **YOUR** SUCCESS.

Polyflow® Membrane

Specifications

Materials of Construction

Membrane	:	Polypropylene
Support layers	:	Polypropylene
Structure	:	Polypropylene

Effective Filtration Area

7.7ft² (0.72m²) 0.04 pore size per 10" (250mm) cartridge

6.6ft² (0.61m²) 0.07 pore size per 10" (250mm) cartridge*

7.7ft² (0.72m²) 0.1 pore size per 10" (250mm) cartridge

7.7ft² (0.72m²) 0.2 pore size per 10" (250mm) cartridge

* double layers of membrane

Metals Extractables*

<50ppb (total)
*in a 10% HNO_3 extraction

Maximum Differential Pressure/ Temperature

Forward: 80psid (5.5bar) @ 75°F (24°C)*
40psid (2.8bar) @ 180°F (82°C)

Reverse: 40psid (2.8bar) @ 75°F (24°C)
60 psid (4.1 Bar) @ 75°F for 0.04µm

Cleanliness (particle shedding)

Wet-packed <1 particles/ml >0.2µm after 10gal at 1gpm

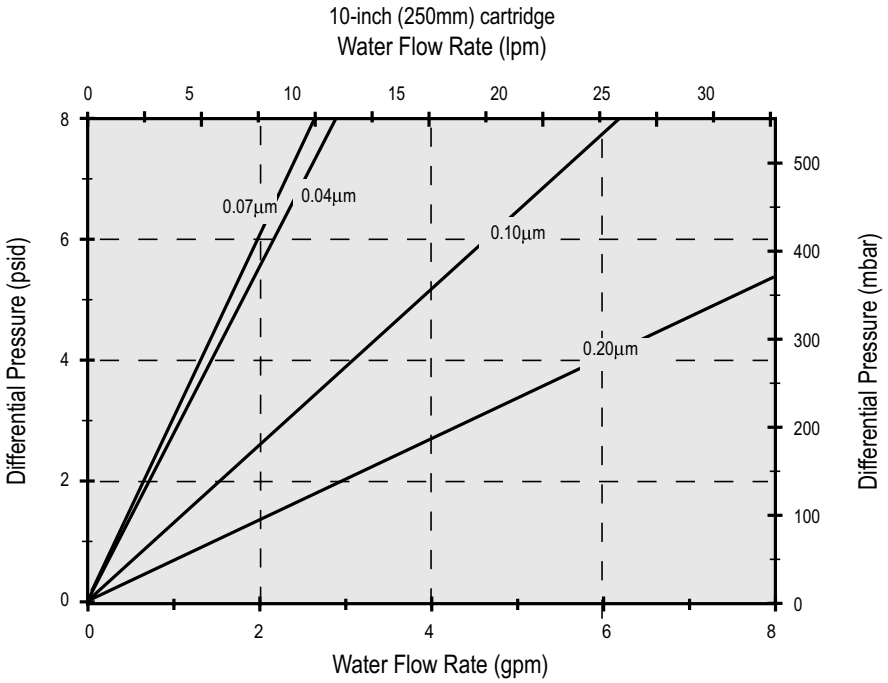
Data from bag open and installed, no additional installation flushing.

Performance Attributes

Water Flow rates, Typical *

0.04µm 0.41gpm/psid (2.2lpm/100mbar)
0.07µm 0.35gpm/psid (1.9lpm/100mbar)
0.10µm 0.7gpm/psid (3.8lpm/100mbar)
0.20µm 1.8gpm/psid (10.3lpm/100mbar)

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



TOC/Resistivity Rinse-up (wet-packed)
TOC rinse-up to background plus 5ppb of feed after 40gal @ 1gpm.

Resistivity rinse-up to background minus 0.2megohm-cm of feed after 40gal @ 1gpm.

Ordering Information

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

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Insert Style

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

End Fitting

CODE	DESCRIPTION
0	DOE (CUNO®)
1	DOE
2	226\Flat
3	222\Flat
7	226\Fin
8	222\Fin

Nominal Length

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

Filter Rating

CODE	MICRON
924	0.04µm
001	0.10µm
002	0.20µm
101	0.07µm

Gasket/O-Rings

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

* O-rings only

Thickness (Gaskets Only)

CODE	THICKNESS
1	0.200" (5mm)
2	0.125" (3mm)
4	(1) 0.200" (5mm) & (1) 0.125" (3mm)
N	None

Options

CODE	TREATMENT
Blank	Standard
EW	Wet Packed

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