

## 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](http://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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# Polyflow<sup>®</sup> Membrane

## Specifications

### Materials of Construction

Membrane : Polypropylene  
 Support layers : Polypropylene  
 Structure : Polypropylene

### Effective Filtration Area

7.7ft<sup>2</sup> (0.72m<sup>2</sup>) 0.04 pore size per 10" (250mm) cartridge

6.6ft<sup>2</sup> (0.61m<sup>2</sup>) 0.07 pore size per 10" (250mm) cartridge\*

7.7ft<sup>2</sup> (0.72m<sup>2</sup>) 0.1 pore size per 10" (250mm) cartridge

7.7ft<sup>2</sup> (0.72m<sup>2</sup>) 0.2 pore size per 10" (250mm) cartridge

\* double layers of membrane

### Metals Extractables\*

<50ppb (total)  
 \*in a 10% HNO<sub>3</sub> 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

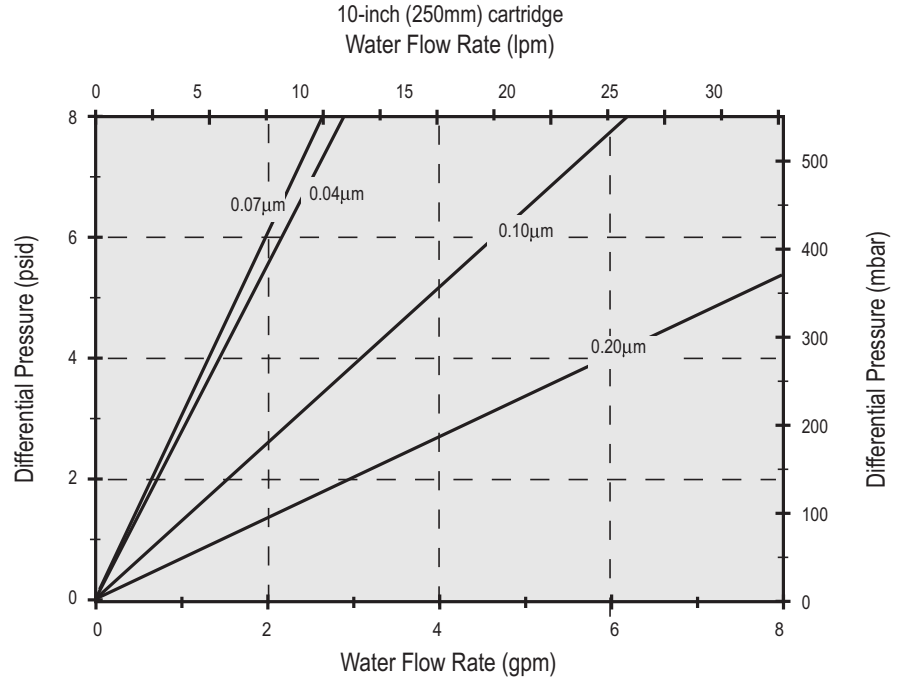
Data from bag open and installed, no additional installation flushing.

## 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		End Fitting		Nominal Length		Filter Rating		Gasket/O-Rings		Thickness (Gaskets Only)		Options	
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	LENGTH	CODE	MICRON	CODE	MATERIAL	CODE	THICKNESS	CODE	TREATMENT
1	No Insert (Standard)	0	DOE (CUNO <sup>®</sup> )	10	10" (250mm)	924	0.04µm	0	Buna N	1	0.200" (5mm)	Blank	Standard
5	Encapsulated Stainless Steel	1	DOE	20	20" (500mm)	001	0.10µm	1	EPDM	2	0.125" (3mm)	EW	Wet Packed
6	Encapsulated Polysulfone	2	226/Flat	30	30" (750mm)	002	0.20µm	2	Silicone	4	(1) 0.200" (5mm) & (1) 0.125" (3mm)		
A	1/2" Shortened on 222 Fitting	3	222/Flat	40	40" (1000mm)	101	0.07µm	4	Viton <sup>®</sup>	N	None		
		7	226/Fin					5*	FEP-Encapsulated Viton				
		8	222/Fin					N	None				

\* O-rings only

Specifications are subject to change without notification.

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