

Clariflow®-E

Hydrophilic PES membrane cartridges for aqueous applications

Clariflow®-E cartridges are optimized for use in microelectronics applications such as DI water and aqueous-based chemicals. The unique mirrored-anisotropic PES (Polyethersulfone) membrane has exceptionally high flow rates and on-stream lifetime while providing consistent removal of both organic and inorganic particulates.

The combination of hydrophilic PES membrane and a high-purity, all-polypropylene support structure results in a very low level of ionic and organic extractables, broad chemical compatibility, and resistance to particle shedding.

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 hydrophilic membrane
- High flow rate
- Broad chemical compatibility for multiple applications
- Long on-stream life
- 100% integrity tested

Applications

- BOE
- Dilute HF
- POU DI rinse
- Bulk DI water systems
- Copper plating
- Ni plating
- Hard disk wash processes
- Other dilute acids and bases

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.

Clariflow®-E

Specifications

Materials of Construction

Membrane : Polyethersulfone
 Support layers : Polypropylene
 Structure : Polypropylene

Effective Filtration Area

6.8ft²(0.63m²) per 10" (250mm) cartridges

Maximum Differential Pressure/ Temperature

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

Reverse: 50psid (3.4bar) @ 75°F (24°C)

Cleanliness (particle shedding)

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

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

Resistivity Rinse-up

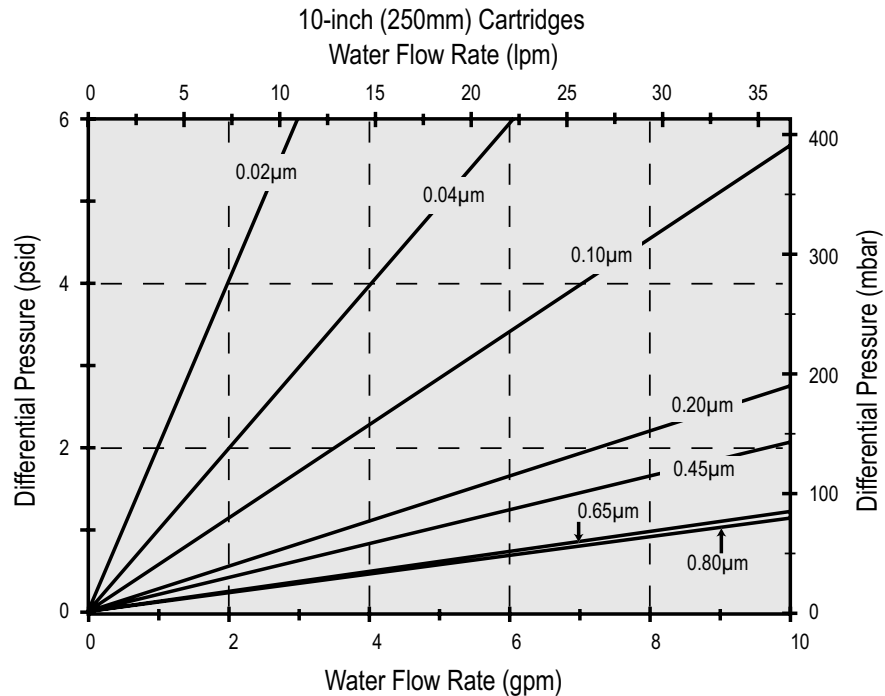
Resistivity rinse-up to background minus
 0.2megohm-cm of feed after 20gal @
 1gpm.

Performance Attributes

Water Flow rates, Typical *

0.02µm 0.5gpm/psid (2.75lpm/100mbar)
 0.04µm 1.0gpm/psid (5.49lpm/100mbar)
 0.10µm 1.8gpm/psid (9.88lpm/100mbar)
 0.20µm 3.7gpm/psid (20.31lpm/100mbar)
 0.45µm 4.8gpm/psid (26.35lpm/100mbar)
 0.65µm 8.9gpm/psid (48.86lpm/100mbar)
 0.80µm 9.5gpm/psid (52.16lpm/100mbar)

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



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	None (STD)
5	Encapsulated 316L 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
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 ²	5" (130mm)
10	10" (250mm)
20	20" (500mm)
30	30" (750mm)
40	40" (1,000mm)

Filter Rating	
CODE	MICRON
922	0.02µm
924	0.04µm
001	0.10µm
002	0.20µm
004	0.45µm
006	0.65µm
008	0.80µm

Gasket/O-Rings	
CODE	MATERIAL
0	Buna N
1	EPDM
2	Silicone
4	Viton®
5 ³	FEP Encapsulated Viton
6 ³	FEP Encapsulated Silicone
N	None

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

* 5" cartridges are available in these configurations
² 5" cartridges are available in 0.04 through 0.8 µm ratings.
³ O-rings only.

Specifications are subject to change without notification.
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