

Clariflow®-E-Select

High-performance hydrophilic PES membrane cartridges for aqueous applications

Clariflow®-E-SELECT 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 innovative SELECT pleating provides increased performance over competitive cartridges. Membrane area is increased by over 50% while flows are 40% higher within the same footprint. The result is one of the longest lasting cartridges on the market.

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.



Contact Information

Parker-Hannifin Corporation
domnick hunter
Process Filtration - N.A.
2340 Eastman Avenue
Oxnard, California, USA 93030

toll free +1 877 784 2234
phone +1 805 604 3400
fax +1 805 604 3401
dhpsales.na@parker.com

www.parker.com/processfiltration



Benefits

- High-retention hydrophilic membrane
- Unique SELECT pleating technology
- High flow rates for increased bath turnover
- Broad chemical compatibility for multiple applications
- Wide range of configurations and ratings
- Reduced overall cost of filtration
- 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

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Clariflow®-E Select

SPECIFICATIONS

Materials of Construction

Membrane: Polyethersulfone
 Support Layers: Polypropylene
 Structure: Polypropylene
 All components are thermally bonded to ensure integrity and minimize extractables.

Effective Filtration Area

8.8ft² (0.82m²) 0.02µm pore size per 10" (250mm) cartridge

10.3ft² (0.96m²) other pore sizes per 10" (250mm) cartridge

Maximum Differential

Pressure/Temperature

Forward: 70psid (5.5bar) @ 20°C (68°F)
 40psid (2.8bar) @ 82°C (180°F)

Reverse: 40psid (2.8bar) @ 20°C (68°F)

Cleanliness (particle shedding)

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

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

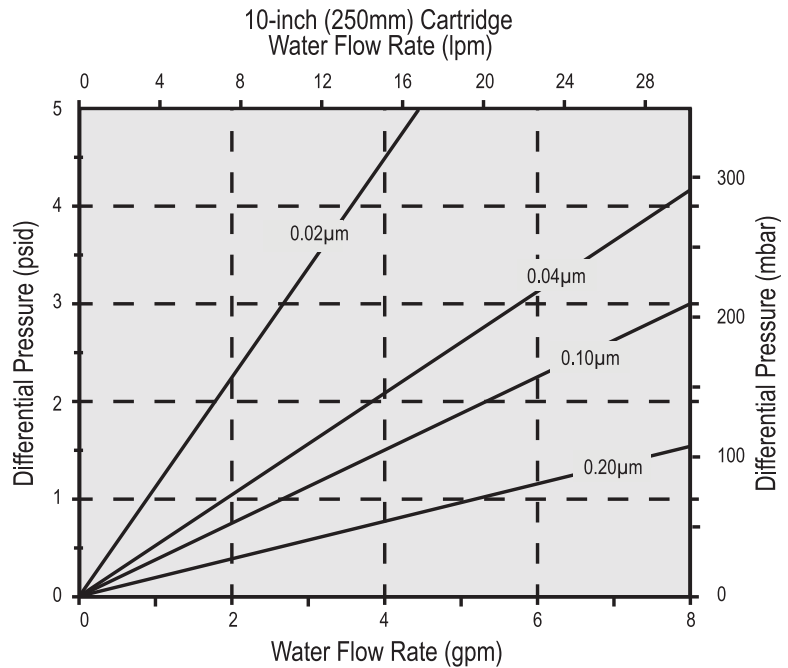
Resistivity Rinse-up

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

Performance Attributes

Water flow rates, Typical*		
Micron	gpm/psid	lpm/100mbar
0.02	0.9	4.94
0.04	1.9	11
0.1	2.6	14
0.2	5.2	29

* 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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Styles		End Fitting		Length			Filter Rating		O-Rings	
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	INCHES	mm	CODE	MICRON	CODE	MATERIAL
1	None (Std.)	2	226 Flat	10	10"	250	922	0.02	1	EPDM
5	Encapsulated Stainless Steel	3	222 Flat	20	20"	500	924	0.04	2	Silicone
6	Encapsulated Polysulfone	7	226 Fin	30	30"	750	001	0.1	4	Viton®
A	½ Shortened on 222 Fitting	8	222 Fin	40	40"	1000	002	0.2	5	FEP Encapsulated Viton®
									6	FEP Encapsulated Silicone
									N	None

Specifications are subject to change without notification.
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