

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.



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

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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Clariflow®-E-Select

Specifications

Materials of Construction

Membrane : Polyethersulfone
 Support Layers : Polypropylene
 Structure : Polypropylene

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 at 1gpm

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

Resistivity Rinse-up

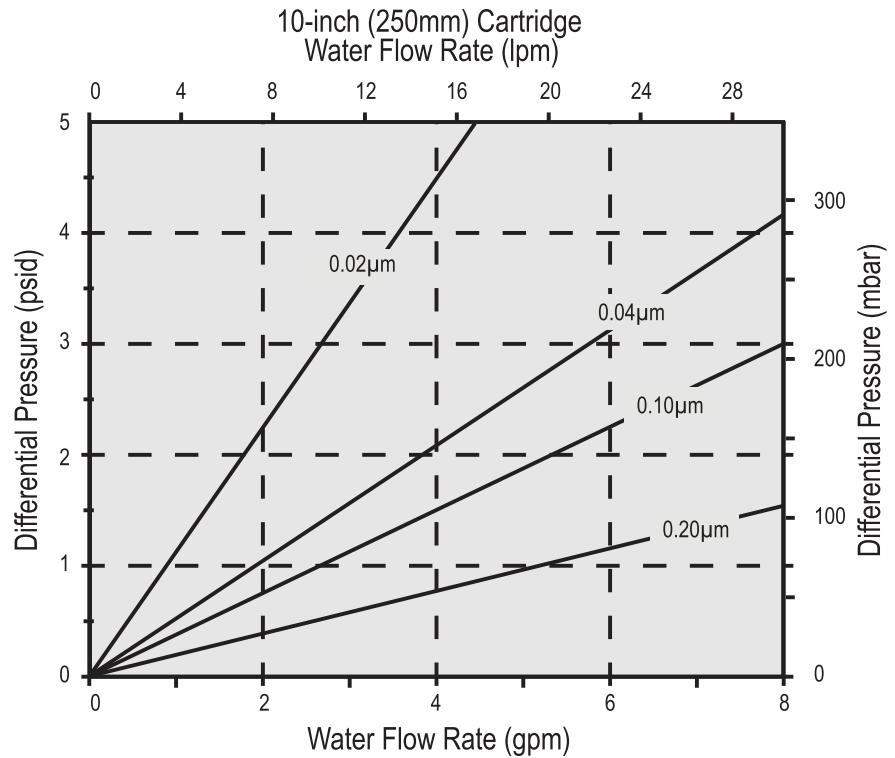
Resistivity rinse-up to background minus 0.2megohm-cm of feed after 20gal @ 1gpm.

Performance Attributes

Water Flow rates, Typical *

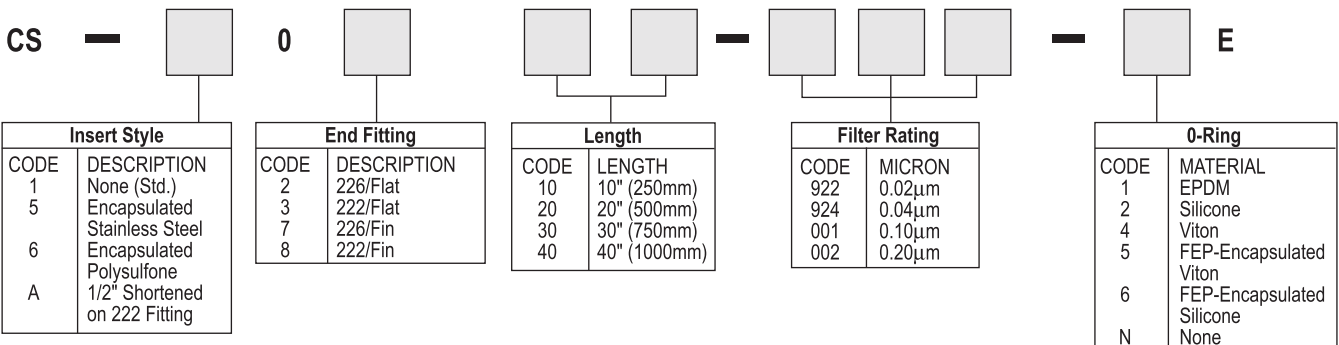
0.02µm 0.9gpm/psid (4.94lpm/100mbar)
 0.04µm 1.9gpm/psid (10.43lpm/100mbar)
 0.10µm 2.6gpm/psid (14.27lpm/100mbar)
 0.20µm 5.2gpm/psid (28.55lpm/100mbar)

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



Ordering Information

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



Specifications are subject to change without notification. Clariflow is a registered trademark of Parker Hannifin Corporation. Viton is a registered trademark of E.I. DuPont de Nemours & Co., Inc.

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