Clariflow®-E Select Filter Cartridge

High-performance hydrophilic PES membrane cartridges for aqueous applications

Clariflow® E-SELECT filter cartridges are optimized for use in microelectronics applications such as DI water, and alkaline chemistries. 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

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Benefits

- High-retention hydrophilic membrane
- Unique 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



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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)

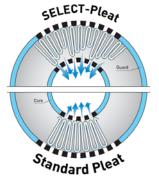
<u>Dry-packed:</u> <1 particles/ml >0.2μm

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.

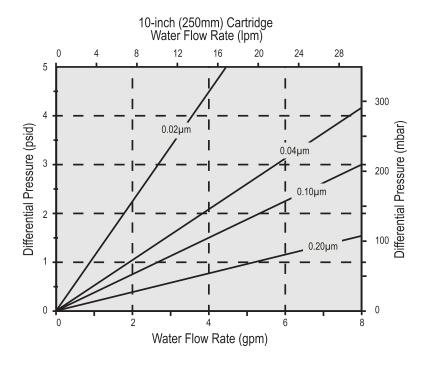


SELECT pleating provides an optimized effective filtration area, dramatically increasing flow rates compared to products with standard pleat format.

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					

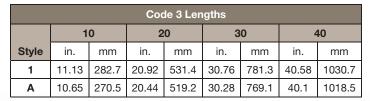
^{*} Per 10-inch (250mm) cartridge equivalent.

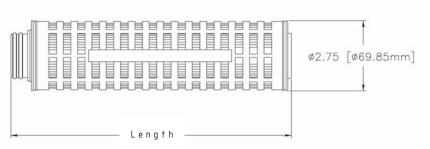




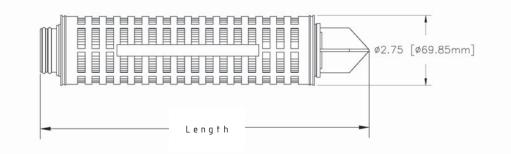


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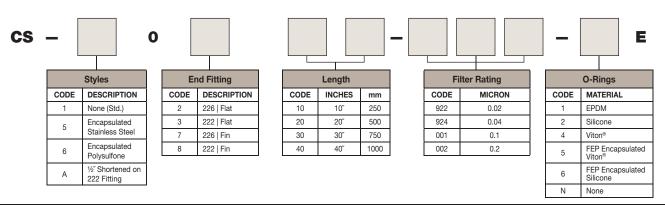
Code 8 Lengths										
	10		20		30		40			
Style	in.	mm	in.	mm	in.	mm	in.	mm		
1	12.87	326.9	22.70	576.6	32.54	826.5	42.36	1075.9		



Note: For other code lengths, please consult your local Parker representative.

Ordering Information

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



Specifications are subject to change without notification. For User Responsibility Statement, see www.parker.com/safety Clariflow is a registered trademark of Parker-Hannifin Corporation. Viton is a registered trademarks of E.I. DuPont de Nemours & Co., Inc.

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