CLARIFLOW®-E MINI-CARTRIDGES

Small-volume Hydrophilic PES membrane cartridges for aqueous applications



Clariflow®-E mini-cartridges are optimized for use in small-volume 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.

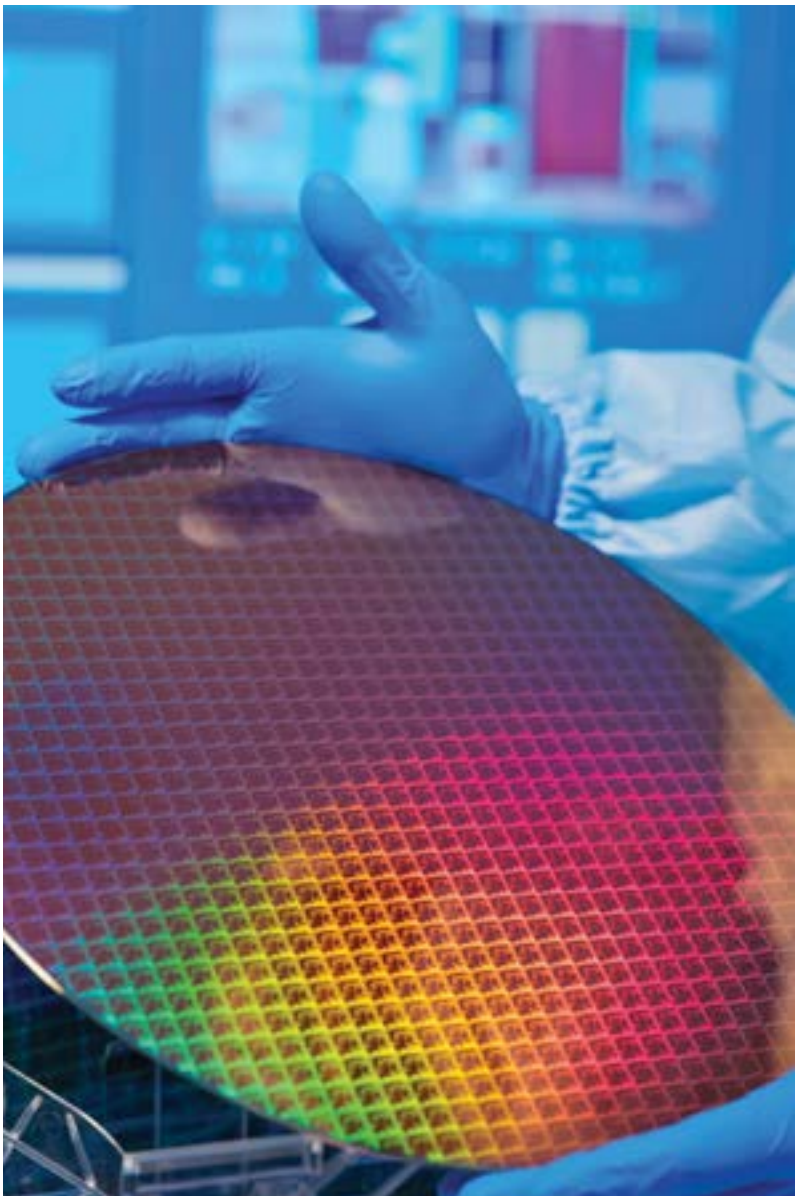
Its design uses an internal 116 O-ring available in several materials.

Benefits

- High-retention hydrophilic membrane
- High flow rate
- Broad chemical compatibility for multiple applications
- Secure internal O-ring seal
- 100% integrity tested

Applications

- Aqueous electronics chemicals
- Small-volume lab systems
- DI water



Specifications

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

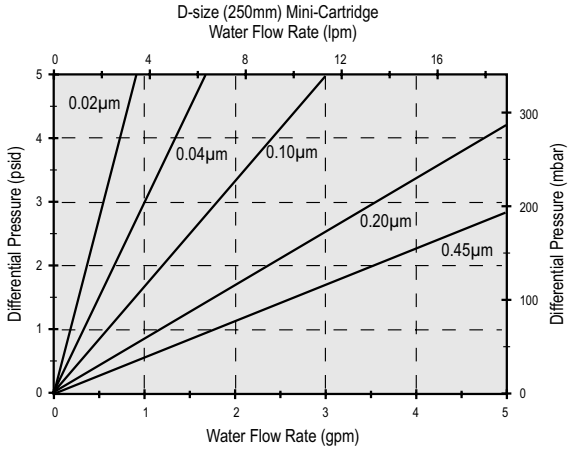
Effective Filtration Area
2.5ft² (0.23m²) per D-size (125mm) cartridge

Maximum Differential Pressure/Temperature
Forward: 70psid (4.8bar) @ 75°F (24°C)
35psid (2.4bar) @ 140°F (60°C)
Reverse: 30psid (2.1bar) @ 75°F (24°C)

Performance Attributes

Water flow rates, Typical*		
Micron	gpm/psid	lpm/100mbar
0.02	0.2	1.1
0.04	0.3	1.7
0.1	0.6	3.3
0.2	1.3	7.1
0.45	1.8	9.9

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



*Values for fluids with viscosity of 1cP.

Ordering Information

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

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Filter Rating	
CODE	MICRON
001	0.1
002	0.2
922	0.02
924	0.04
004	0.45

O-Rings	
CODE	MATERIAL
0	Buna-N
1	EPDM
2	Silicone
4	Viton®
N	None

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DS_ME_Clariflow-E Mini-Cart_2025_Rev. A

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WARNING: This product can expose you to chemicals including 1,3-Butadiene which are known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov