

Clariflow®-E Mini-Capsules

Encapsulated PES membrane filters for microelectronics applications

Clariflow®-E capsules filter high-quality water and solvents in semiconductor and microelectronics applications. The mirrored anisotropic polyethersulfone (PES) membrane provides superior fluid flow rates, extended on-stream life, and highly efficient removal of organic and inorganic particulates that can impact process quality.

Clariflow-E capsules are available in a variety of sizes and endfitting combinations enabling users select the best configuration for their system requirements.

The encapsulated design maximizes efficiency by providing faster, easier change-out without laborious cleaning procedures. Eliminating the need to open reusable housings for cartridge replacement minimizes the chance of introducing contamination into the process, and promotes safety by reducing the risk of exposure to potentially hazardous fluids.



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Benefits

- Reduce process down time, chance of contamination and risk of exposure to hazardous materials
- Low extractables shorten start-up time
- High flow rate reduces processing time
- Improved design prevents vent caps from disconnecting under pressure

Applications

- Deionized water at point-of-use
- Aqueous chemical fluids



ENGINEERING YOUR SUCCESS.

Clariflow®-E Mini-Capsules

SPECIFICATIONS

Materials of Construction

Membrane: Polyethersulfone
 Support layers: Polypropylene
 Structure: Polypropylene
 Housing: Polypropylene

All components are thermally bonded to ensure integrity and reduce extractables.

Effective Filtration Area

H = Half-size 0.9ft² (0.08m²) per 4.82" (122mm) capsule

S = Standard-size 1.8ft² (0.16m²) per 6.38" (162mm) capsule

D = Double-size 2.5ft² (0.23m²) per 7.92" (201mm) capsule

Maximum Differential Pressure/Temperature

Forward: 70psid (4.8bar) @ 75°F (24°C)
 35psid (2.4bar) @ 140°F (60°C)
 20psid (1.4bar) @ 167°F (75°C)

Reverse: 30psid (2.1bar) @ 75°F (24°C)

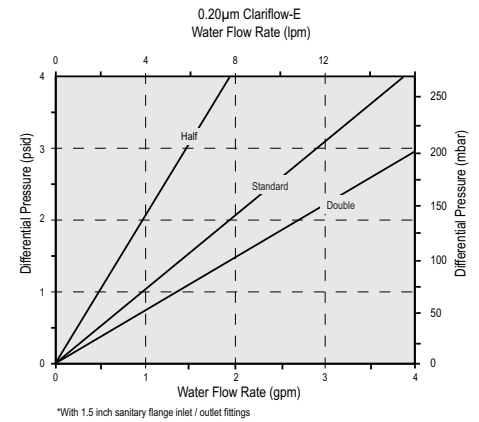
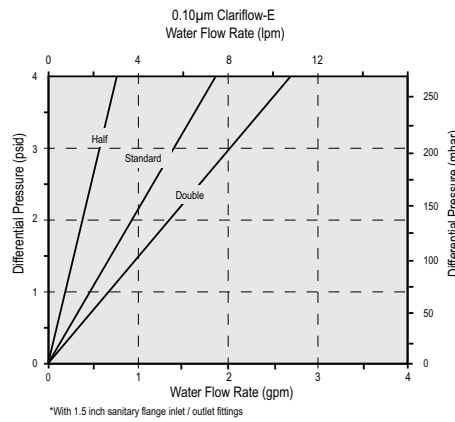
Resistivity Rinse-up

The rinse-up volume required for double-size Clariflow®-E capsules to reach 18megohm-cm resistivity is approximately 12gal (45.4 liters).

Performance Attributes

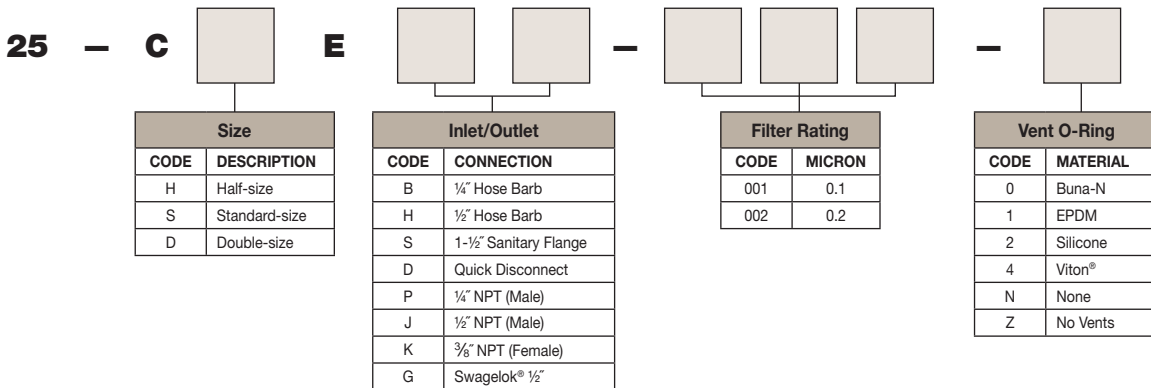
Water flow rates, Typical*			
Micron	Types	gpm/psid	lpm/100mbar
0.1	Half	0.19	1.0
	Standard	0.48	2.6
	Double	0.67	3.7
0.2	Half	0.45	2.5
	Standard	0.96	5.3
	Double	1.3	7.1

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



Ordering Information

Each capsule 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
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