

Micro-Flow Series Filter Cartridges



Product Introduction



Micro-Flow series filter cartridges utilize proprietary highly asymmetric polyethersulfone membrane to deliver a combination of high flow rate and high dirt holding capacity. The polypropylene hardware construction of Micro-Flow series filter can be applied to many process fluids to ensure wide chemical compatibility. In addition, there are various materials of gaskets/ o-rings available to be compatible with numerous kinds of fluids. Especially, Micro-Flow series filters are 100% pre-flushed with 18 megohm-cm DI water and integrity tested. Each element is stamped with pore size, lot and serial number for identification and traceability.

- Manufactured in a class 1,000 clean room
- Manufactured under a certified ISO 9001 quality system
- Pre-flushed with 18 megohm-cm DI water diffusion flow test
- Integrity Tested: bubble point test, diffusion flow test

Product Specifications

Materials of Construction

- Filter Media: Highly Asymmetric Polyethersulfone Membrane
- Hardware: Polypropylene
- Sealing: Thermal Bond
- Support Material: Polypropylene
- Gaskets/O-rings: Silicone, Buna-N, EPDM, Viton, Teflon Encapsulated Viton

Dimensions

- Outside Diameter: 2.67" (68mm)
- Lengths: 4", 10", 20", 30", 40"

Performance Specifications

Retention Ratings

0.04, 0.1, 0.2, 0.45, 0.65, 0.8, 1.2 μ m Absolute

Operating Conditions

- Maximum Operating Differential Pressure:
75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)
- Maximum Operating Temperature: 180°F (82°C)
- Recommended Change Out Differential Pressure:
35 psid (2.4 bar)



FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Sanitizing Agents

Cartridge may be sanitized in place with common oxidizing agents. Consult factory for compatibility information.

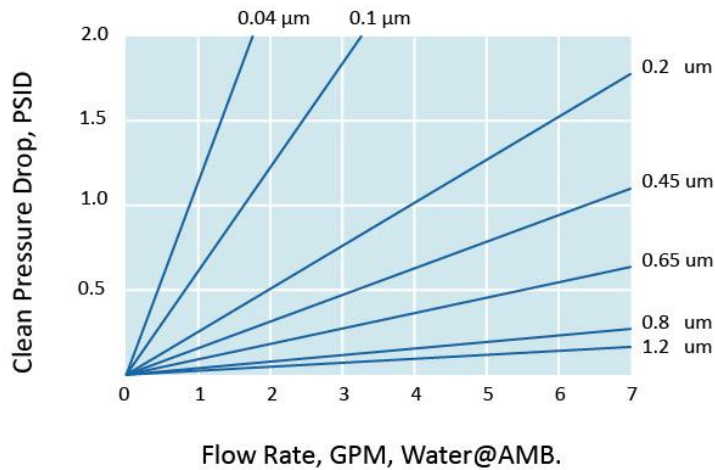
Rinse-Up

Cartridges will be rinsed-up to 18 megohm-cm with a minimum of throughput.

Sterilization

Multiple autoclaving for 30 minutes at 250°F (121°C) under no end load conditions. In-line steam sterilization is not recommended. May be in-line sanitized with hot water at 180°F (82°C) for 1 hour.

Liquid Flow Rate vs. Initial Differential Pressure



Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoises

Ordering Information

MFN	0.2-	10-	3	E
Product Name	Retention Rating	Cartridge Length	End Configuration	Gasket/O-ring Material
MFN	0.04, 0.1, 0.2, 0.45, 0.65, 0.8, 1.2 µm	10" 20" 30" 40"	DOE=Double Open End Code 3=222 / Flat Code 8=222 / Fin Code 7=226 / Fin, Bayonet	E=EPDM V=Viton S=Silicone F=Teflon Encapsulated Viton