

EPIC™ C SERIES

Highly Consistent Melt Blown Cartridges for Critical Process Applications



Description

EPIC C Series filter cartridges were developed by Purolator to provide consistent filtration in a wide range of liquid process applications. The EPIC C Series filter cartridges are constructed of 100% melt blown polypropylene fibers that are blown onto a high strength polypropylene center core. The tortuous path created by melt blown microscopic fibers results in efficient removal of particles and gels from process streams.

The automated manufacturing process used to produce EPIC C Series cartridges uses high purity polypropylene resin to produce a final product that is free of surfactants, anti-static agents, binders and adhesives. As a result, EPIC C Series will not leach potentially harmful particles into process streams. EPIC C Series meet all regulatory guidelines for use in food, potable water, beverage and pharmaceutical applications.

EPIC C Series filter cartridges are available in removal ratings from 0.5 to 100 µm and in continuous lengths from 4 to 50 inches. Purolator can provide EPIC C Series filter cartridges in most commercially available configurations to retrofit existing filter cartridges.

Benefits

- Continuously graded pore structure enhances dirt holding capacity.
- Proprietary patent pending manufacturing process.
- High strength polypropylene center core allows for optimization of filtration medium and enhances the cartridge's mechanical properties.
- 100% polypropylene materials of construction provide wide chemical compatibility.
- All materials are FDA listed for food and beverage contact and meet USP-XXIII, Class VI criteria.
- Free of surfactants, binders and adhesives.
- Cartridge can easily be disposed of through incineration.
- Available in continuous lengths to 50 inches.

Applications

- Food and Beverage Processing
- Metal Finishing/Plating Solutions
- Municipal Water Systems
- Paint and Coatings
- Pulp and Paper
- RO Pretreatment
- Solvent Filtration

Performance Specifications

Retention Ratings

(nominal) 0.5, 1, 5, 10, 25, 40, 75, 100 μm

Maximum Forward 15 psid (1.03 bar) @ 180° F (82° C)

Differential Pressure 30 psid (2.07 bar) @ 150° F (66° C)

60 psid (4.14 bar) @ 75° F (24° C)

Recommended

Change-out Pressure 38 psid (2.6 bar) @ 75° F (24° C) (Ambient)

Biosafety

All components meet FDA requirements for food and beverage contact per 21 CFR. All components meet USP Biological Resistivity, *in vivo*, for Class VI-121° plastics.

Cleanliness

Cartridges are free of surfactants, anti-static agents, adhesives and binders.

Materials of Construction/Dimensions

Outside Diameter (nominal) 2.5" (6.4 cm)

Inside Diameter (nominal) 1.08" (2.7 cm)

Lengths (nominal) 10, 20, 30, 40, 50" (25.4, 50.8, 76.2, 102, 127 cm)

Media

Micro-denier polypropylene fibers

Center Core Standard Polypropylene

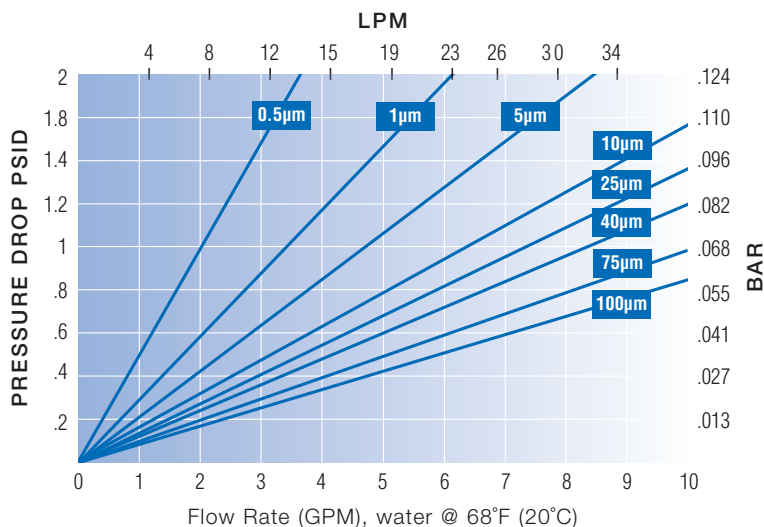
End Caps Polypropylene

Gaskets/O-Rings Polyethylene,* Silicone, Buna-N, EPDM, Viton®

*Double open ended cartridges only

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Flow Rates vs Differential Pressure



Cartridge Ordering Information

Cartridge Series	Retention Rating	Nominal Length (inches)	Center Core	Cartridge Configuration	Gasket or O-Ring
EPC	5-*	29.25		F	S
EPC = EPIC C	0.5, 1, 5, 10, 15, 25, 50, 75, 100, 150 μm	4, 4.75, 9.75, 9.87, 10, 19.5, 19.75, 20, 29, 29.25, 30, 39, 39.5, 40, 50, 72	No Symbol = Polypropylene	No Symbol = DOE G = DOE with gaskets X = DOE with 1" Extended Core F = 222 O-Ring/Flat S = 222 O-Ring/Fin K = Self Sealing Spring	S = Silicone V = Viton B = Buna-N E = EPDM

* Note: Use a - (dash) between the Retention Rating and the Nominal Length when ordering.



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