

## INDUSTRIAL PENTAFLEX SERIES BETA 5000/ABSOLUTE-RATED PES MEMBRANE CARTRIDGES



Pentaflex Absolute-rated PES Membrane Cartridges are available for general purpose filtration and for the specialized needs of the food and beverage, electronics and high-purity chemical industries.

The Pentaflex Absolute-rated PES Membrane Cartridges combine polypropylene with polyethersulfone. The endcaps, center cores and outer support cages are constructed of polypropylene for increased durability.

### FEATURES/BENEFITS

Efficiency rating exceeds 99.98% (beta 5000)

Highly asymmetric PES membrane for full particle retention

Reduces particles as small as 0.1 micron in size by mechanical means\*

Available in 10", 20", 30" and 40" (254, 508, 762 and 1016 mm) lengths with a nominal outside diameter of 2.70" (69 mm)

Polypropylene center core and outer support cage for increased durability

Electronics Grade cartridges are 18 megohm flushed and individually tested

Electronics and General Grade cartridges contain approximately 30% more surface area than the Water Grade

High flow rates

Manufactured from FDA-listed materials

Meets USP Class IV biological test for plastics

Multiple endcap configurations and O-ring materials available

\* Not intended for the removal of microbial pests including virus, bacteria and cysts.

### APPLICATIONS

Chemicals

Deionized Water Systems

Electronics

Food and Beverage

General Use Water

Industrial

Post-filter for RO Systems

## STERILIZATION

Hot Water	176 °F (80 °C) 30 minutes
Steam Sterilization	250 °F (121 °C) multiple cycles

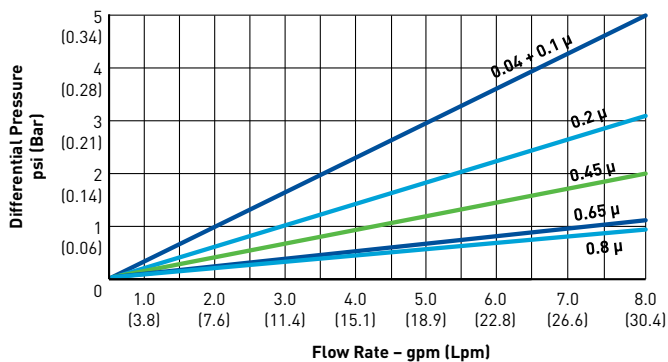
Stainless steel insert required for cartridges that will be sterilized/sanitized with steam or hot water.

## SPECIFICATIONS

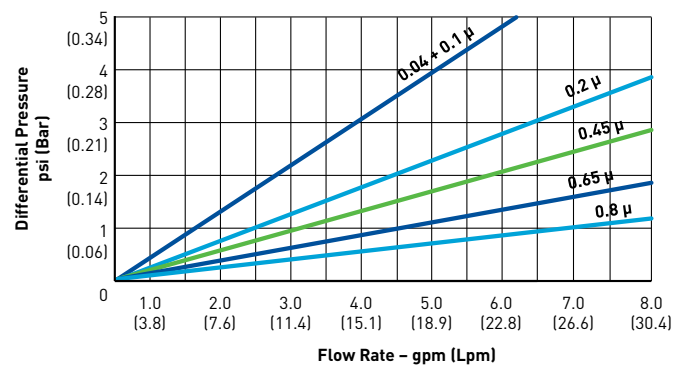
Filter Media	Polypropylene/ Polyethersulfone
Endcaps & Supports	Polypropylene
Max. Temp. Rating	176 °F (80 °C)
Max. Differential Pressure	50 PSID (3.4 bar) forward, 40 PSID (2.8 bar) reverse

## PRESSURE DROP VS FLOW RATE

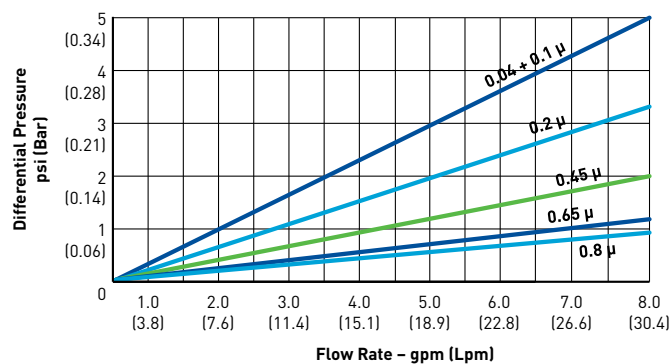
### GENERAL GRADE



### WATER GRADE



### ELECTRONICS GRADE



## CASE QUANTITY

6 per case

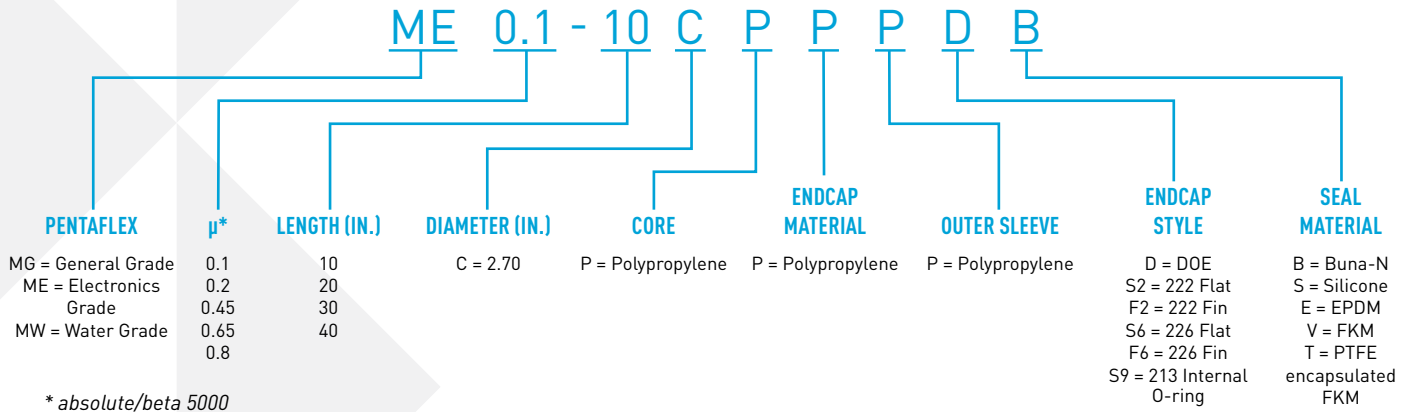
Flow rate is per single 10" water-grade element. For other liquids, multiply the  $\Delta P$  by the fluid's viscosity in centipoise. For longer cartridges, divide the  $\Delta P$  by the number of 10" equivalents.

## ORDERING INFORMATION

To create your ordering part number, use the part number configurator below.  
*Custom configurations available. Please contact customer service.*

### EXAMPLE: ME0.1-10CPPPDB

Pentaflex Electronics Grade Filter Cartridge (ME)  
 0.1-absolute micron rating (0.1), 10" length (10), 2.70" diameter (C), Polypropylene core (P)  
 Polypropylene endcaps (P), Polypropylene sleeve (P), Double-open-ended (D), Buna-N seal (B)



\* absolute/beta 5000  
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FILTRATION & PROCESS

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