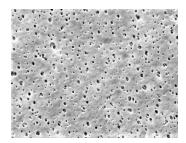


GPC Micro Capsule filters are part of Critical Process Filtration's economical, general service product line that can be used to lower the total cost of filtration from simple to the most complex applications. Produced using the same quality materials and manufacturing excellence as our other product lines, you can be assured of their performance, dependability and scalability. While general service filters are not integrity tested or validated for retention, these highly efficient filters remove large amounts of contaminants early in the process to reduce the load on your expensive downstream filters. They are also useful as stand-alone clarifying or particle removal filters in less critical applications.

GPC Micro Capsule filters are made with a single layer, positively charged Polyethersulfone (PES) membrane. They are used for the filtration of aqueous fluids that contain negatively charged contaminants. Pore sizes range from 0.03 to 1.2  $\mu$ m. These hydrophilic filters have low binding characteristics, making them an ideal choice for filtering products with components that adsorb to filter media. GPC Micro Capsule filters deliver high flow and throughput.

Critical Process provides unrivaled delivery times, technical consulting before purchasing, and very competitively priced highperformance products. Our comprehensive testing & analysis and validation services support your team whenever they need it. Your process experts partnering with our filtration experts is how we deliver your company's solution right the first time.



GPC Micro Capsule filters are recommended for endotoxin removal in:

- Process Water
- DI Water
- Serum
- Plasma
- Vitamins

# Fine Particle Removal Endotoxin Removal



MICRO CAPSULES – Nominal Dimensions Body Length: 1.9 in. (4.8 cm) Overall Length: 2.8 to 3.8 in. (7.1 to 9.7 cm) Outside Diameter: 2.6 in. (6.6 cm)

#### **Maximum Operating Parameters**

	MICRO CAPSULES	
Liquid Operational Pressure	80 psi at 68 °F (5.52 bard at 20 °C)	
Gases Operational Pressure	60 psi at 68 °F (4.14 bar at 20 °C)	
Operating Temperature (water)	110 °F at 30 psid (43 °C at 2.07 bard)	
Forward Differential Pressure	50 psid at 68 °F (3.45 bard at 20 °C)	
Reverse Differential Pressure	40 psid at 68 °F (2.76 bard at 20 °C)	
Recommended Changeout Pressure	35 psid (2.41 bard)	

#### Sanitization & Sterilization

Autoclave	250 °F (121 °C), 30 min, 5+ cycles
Chemical Sanitization	Performed using industry standard concentrations of hydrogen
	peroxide, peracetic acid, sodium hypochlorite and other selected

chemicals.

#### **Construction Materials**

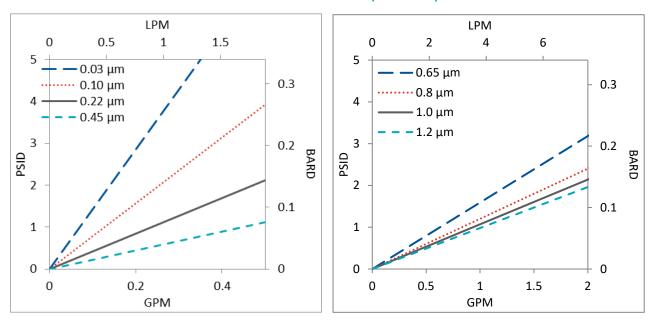
#### Filtration Area (Nominal)

Filtration Media	Single Layered Positively Charged PES membrane	Area	0.62 ft <sup>2</sup>	
Media Support	Polypropylene		576 cm <sup>2</sup>	
End Caps, Center Core, Outer Support Cage, Micro Capsule Housing	Polypropylene	1	<b>Extractables</b> GPC Micro Capsule filters typically exhibit low levels of non-volatile residues.	
Sealing Method	Thermal Bonding	Non-Fiber Releasing The GPC Micro Capsule filters comply with Title 21 CFR		

# sections 210.3 (b)(6) and 211.72, for non-fiber releasing filters.

#### FDA and EC Compliance

Materials meet the requirements listed by the FDA as appropriate for use in articles intended for repeated food contact as specified in Title 21 CFR sections 174.5, 177.1500, 177.1520, 177.1630, 177.2440, and 177.2600 as applicable. All materials used to make the filters are listed in European Commission Regulation EU/10/2011, Annex 1.



### Flow Rates for GPC Micro Capsules by Pore Size

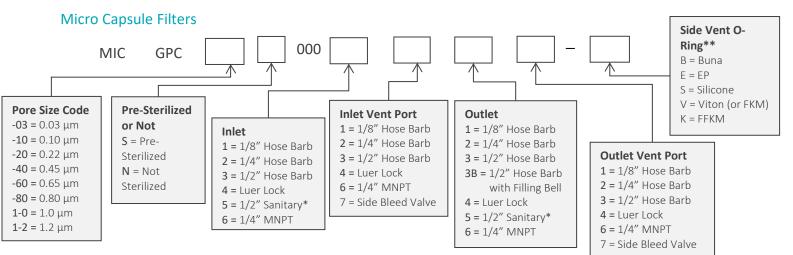
Flow rates for Micro Capsule filters are per filter. The test fluid is water at ambient temperature. Flows are tested using a Micro capsule filter with ½" Sanitary inlet and outlet ports. Rates will vary based on end configuration of the Micro capsule.

## **GPC Micro Capsule Filters Ordering Information**

All Critical Process filters are configurable to meet customer specifications. Fill in the corresponding codes in the boxes below to build your Part Number.

To consult with one of our technical team members, request a quote or place an order: call (603) 880-4420 or <u>contact us here</u>.

\*\*Please note this product is not designed or approved for use in Hemodialysis applications\*\*



\*When choosing the Sanitary Inlet/Outlet, the Luer Lock or bleed valve option is required for the Vent Port

\*\* O-Ring is only available on Bleed Valve



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