



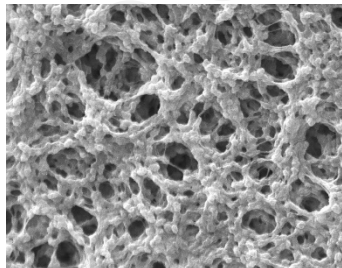
FPVWB Micro Capsule Filters

Hydrophobic PVDF Membrane

FPVWB Micro Capsule filters are constructed with a single layer of high capacity polyvinylidene fluoride (PVDF). Pore sizes range from 0.22 to 1.0 μm and the filter devices scale from laboratory to full production using identical materials to ensure consistent results.

FPVWB Micro Capsule hydrophobic products are ideal for filtering non-aqueous solutions and controlling bioburden in process air/gas or vent filter applications. These filters deliver high flow and throughput with the broad chemical compatibility of a fluoropolymer.

Critical Process provides unrivaled delivery times, technical consulting before purchasing, and very competitively priced high-performance 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.



FPVWB Micro Capsule is the recommended filter for bioburden control in:

- Wine
- Beer
- Clear Juices
- Bottled Water
- Tank Vents

Bioburden Control Filters

Tank Vent & Process Gas



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	Liquid - 80 psid at 68 °F (5.52 bard at 20 °C) Gas - 60 psi at 68 °F (4.14 bar at 20 °C)
Reverse Differential Pressure	50 psid at 68 °F (3.45 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.

Extractables

FPVWB Micro Capsule filters typically exhibit low levels of non-volatile residues.

Non-Fiber Releasing

The FPVWB 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.

Filtration Area (Nominal)

Area	0.569 ft ²
	529 cm ²

Construction Materials

Filtration Media	Hydrophobic High Capacity Polyvinylidene Fluoride (PVDF) Membrane with polyester support
Media Support	Polypropylene
End Caps, Center Core, Outer Support Cage, Capsule Housing	Polypropylene
Sealing Method	Thermal Bonding
O-Rings/Gaskets Cartridges only	Buna, Viton® (or FKM), EPDM, Silicone, FEP Encapsulated Silicone, FEP Encapsulated Viton (or FKM)

Water

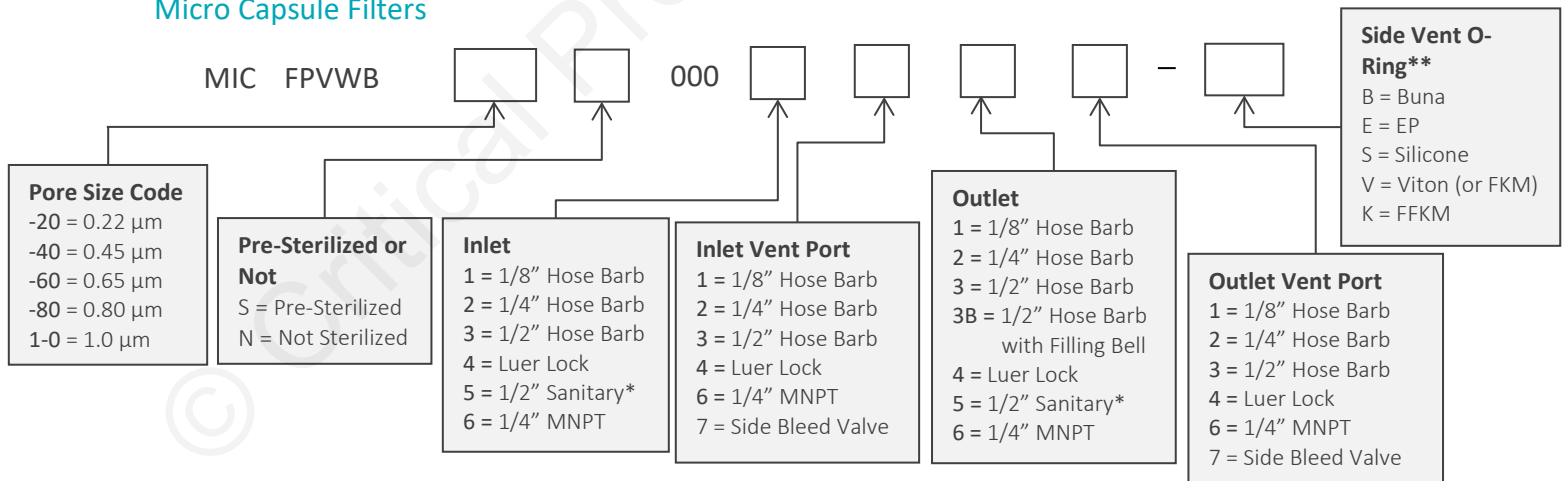


Flow rates for Cartridge filters are per 10-inch length. The test fluid is water or compressed air at ambient temperature.

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 Ext. 106, or send an email to sales@criticalprocess.com

MIC FPVWB



*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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