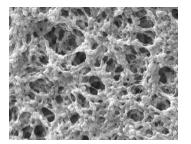


FPVWB cartridge and capsule filters are constructed with a single layer of high capacity polyvinylidene fluoride (PVDF). Pore sizes range from 0.22 to 1.0 μm and the filter devices scale from laboratory to full production using identical materials to ensure consistent results.

FPVWB 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 is the recommended filter for bioburden control in:

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

Bioburden Control Filters
Tank Vent & Process Gas



CARTRIDGES – Nominal Dimensions Length: 5 to 40 in. (12.7 to 101.6 cm) Outside Diameter: 2.75 in. (7.0 cm)



CAPSULES – Nominal Dimensions Length: 2 to 30 in. (5.1 to 76.2 cm) Outside Diameter: 3.50 in. (8.9 cm)

Maximum Operating Parameters

	CARTRIDGES	CAPSULES	
Liquid Operational Pressure	N/A	80 psi at 68 °F (5.52 bard at 20 °C)	
Gases Operational Pressure	N/A 60 psi at 68 °F (4.14 bar at 20 °C)		
Operating Temperature (water)	180 °F at 30 psid (82 °C at 2.07 bard)	110 °F at 30 psid (43 °C at 2.07 bard)	
Forward Differential Pressure	80 psid at 68 °F (5.52 bard at 20 °C) (Liquid and Gas)		
Reverse Differential Pressure	ferential Pressure 50 psid at 68 °F (3.45 bard at 20 °C) 50 psid at 68 °F (3.45 bard at 20 °C)		
commended Changeout Pressure 35 psid (2.41 bard) 35 psid (2.41 bard)		35 psid (2.41 bard)	

Sanitization & Sterilization

Filtered Hot Water*	90 °C (194 °F), 30 minutes, multiple cycles, max 3 psid forward flow	N/A		
Inline Steam*	275 °F (135 °C), 30 min, 25+ cycles	N/A		
Autoclave*	250 °F (121 °C), 30 min, 25+ cycles	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.		

^{*}Cartridge Filters – For all elevated temperature procedures above, a stainless-steel support ring is required.

Filtration Area (Nominal)

	CAPSULES	CARTRIDGES AND CAPSULES			CARTRIDGES	
Length	2"	5"	10"	20"	30"	40"
	5.08cm	12.7cm	25.4cm	50.8cm	76.2cm	101.6cm
Area	1.0 ft ²	2.8 ft ²	6.0 ft ²	12.0 ft ²	18.0 ft ²	24.0 ft ²
	0.09m ²	0.26m ²	0.56m ²	1.12m ²	1.68m ²	2.24m 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)	

Extractables

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

Non-Fiber Releasing

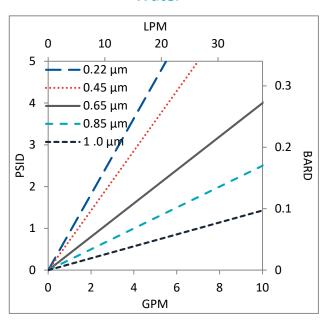
The FPVWB filters comply with Title 21 CFR sections 210.3 (b)(6) and 211.72, for non-fiber releasing filters.

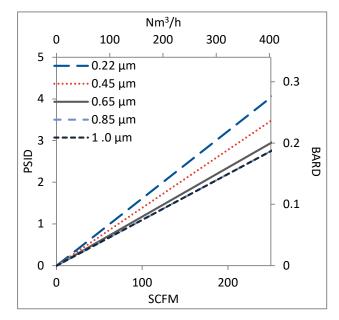
FDA and EC Compliance

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 FPVWB Cartridges by Pore Size

Water Air

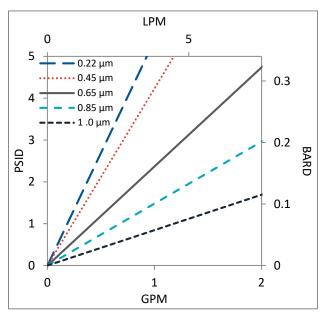


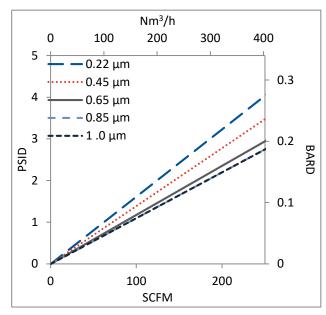


Flow rates for Cartridge filters are per 10-inch length. The test fluid is water or compressed air at ambient temperature.

Flow Rates for FPVWB Capsules by Pore Size

Water Air



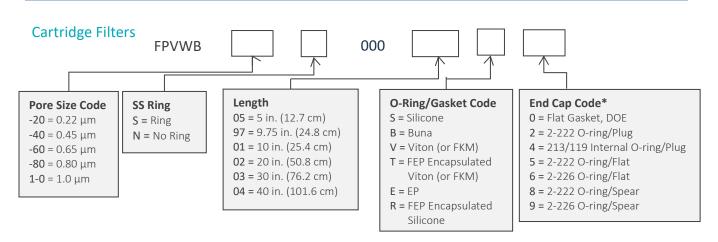


Flow rates for Capsule filters are tested using a 2" capsule filter with 1" sanitary inlet and outlet ports. The test fluid is water or compressed air at ambient temperature. Flow rates for larger capsules will scale with filtration area. Rates will vary based on end configuration of the capsule.

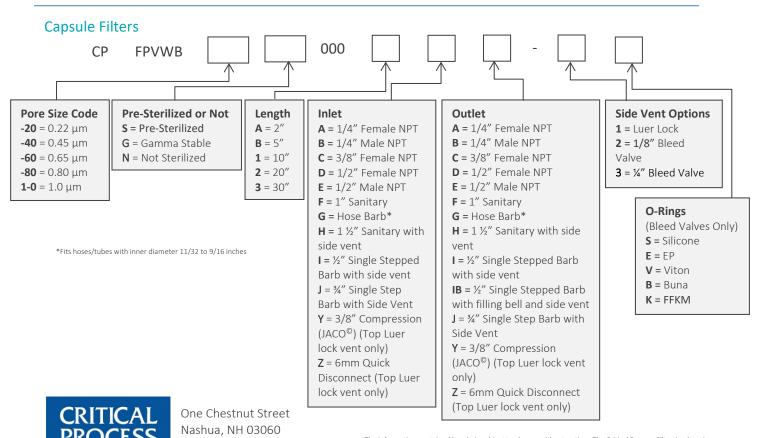
FPVWB Filters Ordering Information

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 contact us here.



*Additional end configurations available



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FILTRATION, INC.

FAX: 603.880.4536

CriticalProcess.com