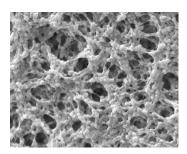


GPVWL filters are part of Critical Process Filtration's economical, general service product line that can be used to lower the total cost of filtration from simple to the most complex applications. Produced using the same quality materials and manufacturing excellence as our other product lines, you 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.

GPVWL cartridge and capsule filters consist of a single layer, hydrophilic, high capacity Polyvinylidene fluoride (PVDF) membrane. These filters are used for fine particle removal, clarifying and prefiltering of aqueous liquids. Pore sizes range from 0.22 to 1.0 μ m. GPVWL 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 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.



GPVWL filters are recommended for filtering:

- Process Water
- DI Water
- Inks & Dyes
- Compatible Chemicals
- Acids and Bases

Fine Particle Removal Clarification & Prefiltration



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 - 80 psid at 68 °F (5.52 bard at 20 °C)	
Reverse Differential Pressure	50 psid at 68 °F (3.45 bard at 20 °C)	50 psid at 68 °F (3.45 bard at 20 °C)	
ecommended 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 concer hypochlorite and other selected chemicals	rformed using industry standard concentrations of hydrogen peroxide, peracetic acid, sodium pochlorite 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	Hydrophilic High Capacity Polyvinylidene Fluoride (PVDF) Membrane	
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

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

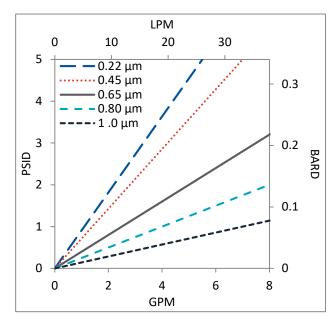
Non-Fiber Releasing

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

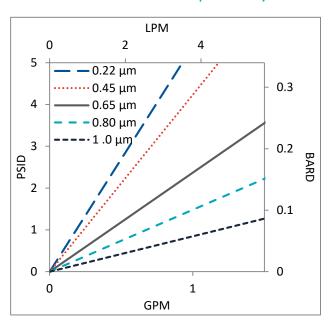
FDA and EC Compliance

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 Cartridge filters are per 10-inch length. The test fluid is water at ambient temperature.



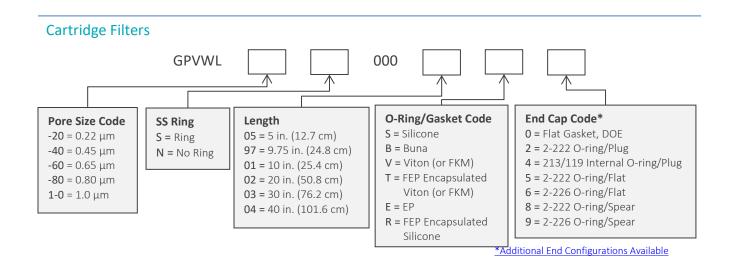
Flow Rates for GPVWL Capsules by Pore Size

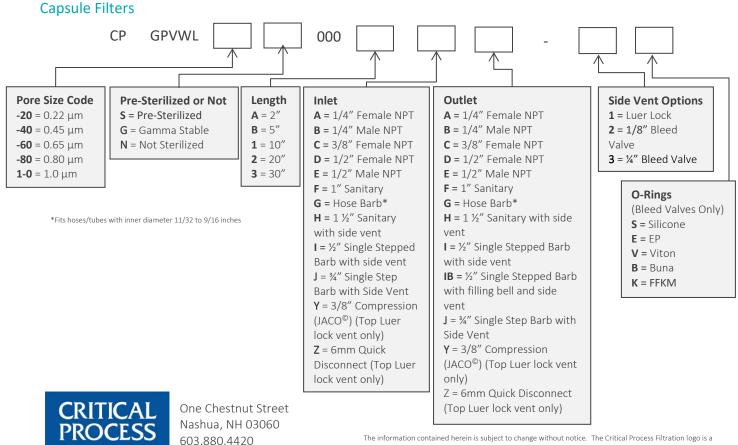
Flow rates for Capsule filters are tested using a 2" capsule filter with 1" sanitary inlet and outlet ports. The test fluid is water at ambient temperature. Flow rates for larger capsules will scale with filtration area. Rates will vary based on end configuration of the capsule.

GPVWL 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 <u>contact us here.</u>





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