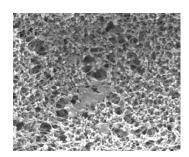


GPM filters are part of Critical Process Filtration's economical, general service product line that can be used to lower the total cost of filtration from simple to the most complex applications. Produced using the same quality materials and manufacturing excellence as our other product lines, you can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

GPM cartridge and capsule filters are made with a single layer polypropylene membrane. Hydrophobic GPM filters resist wetting by airborne water droplets, making them ideal for air, gas and venting applications. GPM filters deliver fast flow and broad chemical compatibility for filtering solvents and non-aqueous solutions. Pore sizes are 0.10 and 0.22 μ m.

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.



GPM filters are recommended for:

- Gases
- Compressed Air
- Tank Vents
- Solvents
- Non-Aqueous Chemicals

Fine Particle Removal Tank Vent & Process Gas



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



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 (5.51 bard at 20 °C)	
Gases Operational Pressure	N/A	60 psi at 68 °F (4.13 bar at 20 °C)	
Operating Temperature (water)	180 °F at 30 psid (82 °C at 2.06 bard) 110 °F at 30 psid (43 °C at 2.06 bard)		
Forward Differential Pressure	80 psid at 68 °F (5.51 bard at 20 °C) (Liquid and Gas)	Liquid - 80 psid at 68 °F (5.51 bard at 20 °C) Gas - 60 psi at 68 °F (4.13 bar at 20 °C)	
Reverse Differential Pressure	50 psid at 68 °F (3.44 bard at 20 °C)	50 psid at 68 °F (3.44 bard at 20 °C)	
Recommended Changeout Pressure	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, 25+ cycles		
Chemical Sanitization	3 ,	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

	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	1.2 ft ²	3.4 ft ²	7.3 ft ²	14.6 ft ²	21.9 ft ²	29.2 ft ²
	0.11m ²	0.32m ²	0.68m ²	1.36m ²	2.04m ²	2.72m ²

Extractables

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

Non-Fiber Releasing

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

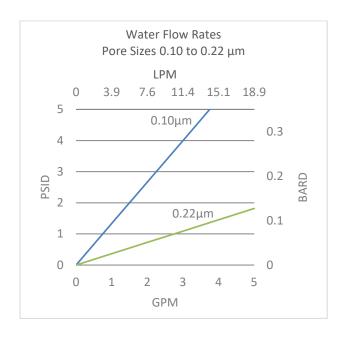
FDA and EC Compliance

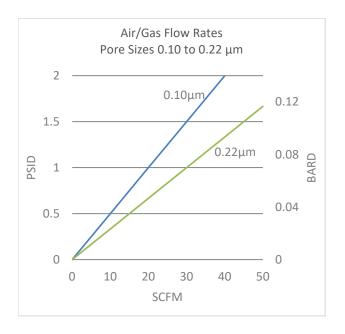
Materials meet the requirements listed by the FDA as appropriate for use in articles intended for repeated food contact as specified in Title 21 CFR sections 174.5, 177.1500, 177.1520, 177.1630, 177.2440, and 177.2600 as applicable. All materials used to make the filters are listed in European Commission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

Construction Materials

Filtration Media	Polypropylene 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)	

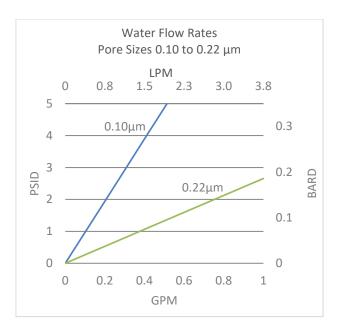
Flow Rates for GPM Cartridges

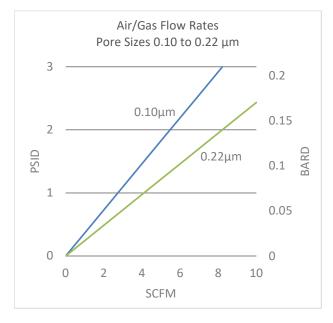




Flow rates for Cartridge filters are per 10-inch length. The test fluid is water or compressed air at ambient temperature.

Flow Rates for GPM Capsules



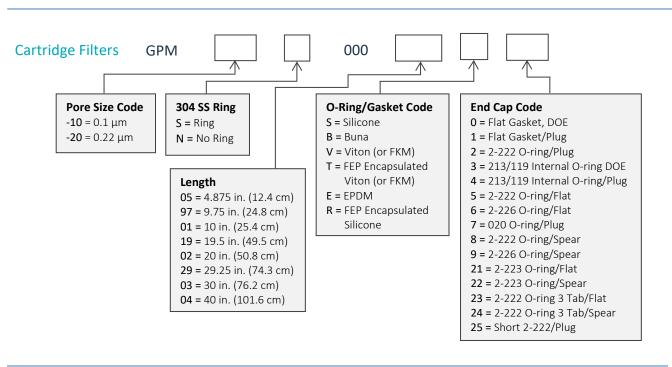


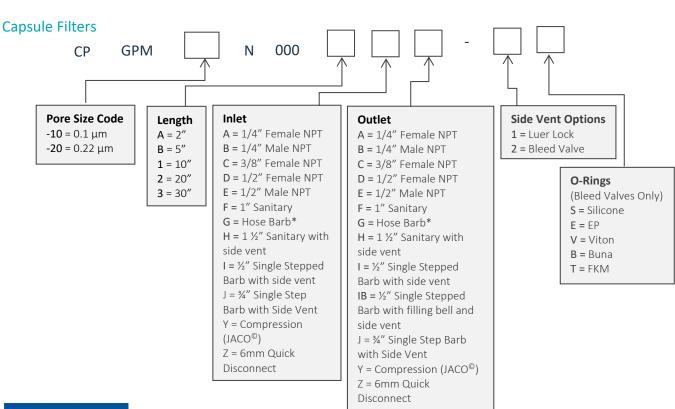
Flow rates for Capsule filters are per square foot of membrane area. The test fluid is water or compressed air at ambient temperature. Flows are tested using a 2" capsule filter with ½" FNPT inlet and outlet ports. Rates will vary based on end configuration of the capsule.

GPM 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) 880-4220 or contact us here.







One Chestnut Street Nashua, NH 03060 603.880.4420 FAX: 603.880.4536

CriticalProcess.com

Data Sheet GPMDS0919 Rev D

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