

PureFlo® PTFE Mini Capsule Filters

Typical Uses

Venting
Bioreactor Inlet Gas
Compressed Air

PureFlo® PTFE Mini Capsule Filters are designed for sterile vent and compressed air applications in the pharmaceutical industry. The PTFE membrane offers high flow rates in applications requiring steam sterilization. The high flow rate and compact design allows for efficient integration into a variety of pharmaceutical processes, minimizing the space and weight of the vent filter in the system.

Materials of Construction	Media: Hydrophobic PTFE Media Supports: Polypropylene Cage, Core, End Caps: Polypropylene O-Rings: Silicone (when present)	
Fitting Connections	See ordering guide for availability. (Custom adaptors available upon request)	
Nominal Dimensions	Body Length: 60 mm (2.3") Diameter: 60 mm (2.3")	
Effective Filtration Area	400 cm ²	
Operating Conditions	Maximum Operating Pressure	Liquid: 5.5 bar (80 psi) at 22°C (72°F); Gas: 4.1 bar (60 psi) at 22°C (72°F)
	Maximum Forward Differential Pressure	4.1 bar (60 psid) at 22°C (72°F)
	Maximum Reverse Differential Pressure	2.1 bar (30 psid) at 22°C (72°F)
	Maximum Operating Temperature	176°F/80°C
Integrity Testing*	0.2 µm	60% isopropanol/40% water bubble point of ≥1.2 bar (17.4 psi) using air at 22 °C
USP Class VI	All components or raw materials used in this product conform to the requirements of USP Class VI Biological Reactivity Tests for Plastics.	
Bacterial Endotoxins	An aqueous extraction of this product contains <0.25 EU/ml as determined by the Limulus Amebocyte Lysate (LAL) Test.	
Bacterial Retention	This product is quantitatively retentive towards <i>Brevundimonas diminuta</i> (ATCC #19146) at a minimum challenge level of 10 ⁷ CFU per cm ² of filtration area, consistent with ASTM F838-05.	
Sterilization	This product can be autoclaved up to 25 cycles at 125°C (257°F) for 30 minutes.	

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PureFlo PTFE Mini Capsule Filters Ordering Guide

PureFlo Capsule Filter	Filter Media Grade	Nominal Filtration Area	Inlet Fitting	Outlet Fitting	Options
MKP = PureFlo Mini Capsule Filter Pharma Grade	F020 = 0.2 µm PTFE membrane	C = 400 cm ²	1H 1Q 1QF 2H 2Q 2QF 3H 5H LF LM MT BH	1H = 1/8" hose barb 1Q = 1/8" male quick coupling 1QF = 1/8" female quick coupling 2H = 1/4" hose barb 2Q = 1/4" male quick coupling 2QF = 1/4" female quick coupling 3H = 3/8" hose barb 5H = 9/16" hose barb LF = female Luer lock LM = male Luer lock MT = 1/2" tri-clamp BH = 3/16" hose barb	Vent & Drain - N = No vent/drain - NI = No vent/drain near inlet - NO = No vent/drain near outlet (Leave blank for one vent/drain near inlet and one vent/drain near outlet)
MKP	F020	C	LF	LF	
Example: MKPF020CLFLF (Mini capsule, 0.2 µm PTFE membrane with 400 cm ² EFA, female Luer Lock inlet/outlet, and two Luer lock vent/drain)					

Customer adapters are available upon request.



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