

PureFlo® PTFE Mid-Size Capsule Filters

Typical Uses

Venting
Bioreactor Inlet Gas
Compressed Air

PureFlo® PTFE Mid-size 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: 52 mm (1.5") to 257 mm (10") (See ordering guide for details) Diameter: 73 mm (2.88")	
Effective Filtration Area (Single-layer)	1.5": 690 cm ² ; 2.5": 1400 cm ² ; 5.0": 2600 cm ² ; 7.5": 4000 cm ² ; 10": 5200 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	5.0 bar (72 psid) at 22°C (72°F)
	Maximum Reverse Differential Pressure	3.0 bar (44 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.	

*All filters are 100% integrity tested

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PureFlo PTFE Mid-size Capsule Filters Ordering Guide

PureFlo Capsule Filters	Filter Media Grade	Internal Filter Length	Inlet Fitting	Outlet Fitting	Options
SKV = PureFlo Mid-Size Pharma Grade Capsule	F020 = 0.2 µm PTFE membrane	H = 1.5" S = 2.5" L = 5" E = 7.5" K = 10"	1H 1Q 2H 2N 2Q 3H 4H 4Q 5H MT TC	1H = 1/8" hose barb 1Q = 1/8" male quick coupling 2H = 1/4" hose barb 2H-FB = 1/4" hose barb with filling bell 2H-FC = 1/4" hose barb with filling bell with cap 2N = 1/4" MNPT 2Q = 1/4" male quick coupling 3H = 3/8" hose barb 3H-FB = 3/8" hose barb with filling bell 3H-FC = 3/8" hose barb with filling bell with cap 4H = 1/2" hose barb 4Q = 1/2" male quick coupling (for plastic latch) 5H = 9/16" hose barb MT = 1/2" tri-clamp TC = 1.5" tri-clamp	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)
SKV	F020	S	TC	TC	(blank)
Example: SKVF020STCTC (SKV Series Capsule, 0.2 µm PTFE membrane with built-in, 2.5" internal cartridge, 1.5" tri-clamp fittings inlet/outlet)					

Custom adapters are available upon request.



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