

PureFlo® Polyethylene (PE) Mid-Size Capsule Filters

Typical Uses

Venting
Bioreactor Inlet Gas
Compressed Air

Gamma Stable | Single-use

PureFlo® Polyethylene (PE) Mid-Size Capsule Filters are designed for sterile vent and compressed air applications in the pharmaceutical industry. The unique PE membrane offers higher flow rates than typical gamma-compatible vent filters. The high flow rate and compact design allows for efficient integration, minimizing the space and weight of the vent filter in single-use systems. 100% of these capsule filters are integrity tested during the manufacturing process to assure product quality.

Materials of Construction	Media:	Polyethylene
	Media Supports:	Polyethylene
	Cage, Core, End Caps:	Polyethylene
	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": 490 cm ² ; 2.5": 970 cm ² ; 5.0": 1900 cm ² ; 7.5": 2900 cm ² ; 10": 3800 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 bar (72 psi) at 22°C (72°F)
	Maximum Reverse Differential Pressure	3 bar (44 psi) at 22°C (72°F)
	Maximum Operating Temperature	140°F/60°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 is compatible with gamma irradiation up to 50 kGy.	

*All filters are 100% integrity tested.

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PureFlo Capsule Filters	Filter Media Grade	Internal Cartridge Length	Inlet Fitting	Outlet Fitting	Options
SKV= PureFlo Mid-Size Pharma Grade Capsule	UE020 = 0.2 µm Polyethylene 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 2N = 1/4" MNPT 2Q = 1/4" male quick coupling 3H = 3/8" hose barb 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	UE020	S	TC	TC	(blank)
Example: SKVUE020STCTC (SKV Series Capsule, 0.2 µm polyethylene 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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SGHZ-C-QS-PD-TS022

Rev A. 0319