

PureFlo® Polyethylene (PE) Mini Capsule Filters

Typical Uses

Venting
Bioreactor Inlet Gas
Compressed Air

Gamma Stable | Single-use

PureFlo® Polyethylene (PE) Mini 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.

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: 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 5 bar (72 psid) at 22°C (72°F)
	Maximum Reverse Differential Pressure 2.1 bar (30 psid) 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 Polyethylene (PE) 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	UE020 = 0.2 µm Polyethylene Membrane	C = 400 cm ²	1H 1Q 2H 2Q 3H 5H LF LM MT BH	1H = 1/8" hose barb 1Q = 1/8" male quick coupling 2H = 1/4" hose barb 2Q = 1/4" male 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	UE020	C	LF	LF	(blank)
Example: MKPUE020CLFLF (MKP Series Pharma Grade Capsule, 0.2 µm polyethylene membrane with 400 cm ² EFA, female Luer Lock inlet/outlet, and two Luer lock vent/drain)					

Custom adapters are available upon request.



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