

PureFlo® Polyethylene (PE) Full-Size Capsule Filters

Gamma Stable | Single-use

PureFlo® Polyethylene (PE) Full-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.



Typical Uses
Venting Bioreactor Inlet Gas Compressed Air

Chemical compatibility information available upon request.

Materials of Construction: (Standard Option)	Media: Polyethylene Media Supports: Polyethylene Cage, Core, End Caps: Polyethylene O-Rings: Silicone (when present)
Fitting Connections:	See ordering guide for the availability. (Custom adaptors available upon request)
Nominal Dimensions:	Length: 10", 20", 30", 40" Diameter: 3.54" (90 mm)
Effective Filtration Area (Single-layer)	10": 0.5 m ² ; 20": 1.0 m ² ; 30": 1.5 m ² ; 40": 2.0 m 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: Gas: 5.0 bar (72 psi) at 72°F/22°C
	Maximum Reverse Differential Pressure: Gas: 3.0 bar (44 psi) at 72°F/22°C
	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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Capsule Series	Configuration	Length	Filter Media Grades	Vents/Drain	Inlet Fitting	Outlet Fitting
L= PureFlo Full-Size Pharma Grade Capsule	I = In-line T = T-line	1 = 10" 2 = 20" 3 = 30" 4 = 40"	UE020 = 0.2 µm Polyethylene Membrane	<u>I-Line:</u> F = 1/4" Bleed valve G = 1/4" Bleed valve (near inlet only) H = 1/4" Bleed valve (near outlet only) <u>T-Line:</u> A = 1/4" Bleed valve drain B = 1/2" Sanitary vent, 1/4" Bleed valve drain D = 1/2" Sanitary vent, 1/4" Bleed valve vent/drain G = 1/4" Bleed valve vent/drain	3H 4H 4Q 5H 6H 8H MT TC T2	3H = 3/8" hose barb (multi) 4H = 1/2" hose barb (multi) 4Q = 1/2" male quick coupling (for plastic latch) 5H = 9/16" hose barb (multi) 6H = 3/4" hose barb (multi) 8H = 1" (25 mm) hose barb MT = 1/2" tri-clamp TC = 1.5" tri-clamp T2 = 2" tri-clamp
L	T	1	UE020	G	5H	5H
Example: (LTIUE020G5H5H): Full-size, 0.2 µm PE membrane, 9/16" Hose barb (multi) inlet/outlet, bleed valve upstream vent/drain.						

Custom adapters available by request.



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