International Filter Products

Revolutionary systems for your industry

LZ Series PES – Single Layer Full Size Filter Capsules

PureFlo® Z-Series Full-size Capsule Filters are gamma stable and ideally suited for integration into single use applications. These filters feature an asymmetric hydrophilic PES membrane that demonstrates exceptional capacity and flow performance in liquid applications. The Z-Series Full-size Capsule filters offer full-scale filtration in a variety of applications in the biopharmaceutical industry. The Z-Series product family has been designed for easy pre- and post-use integrity testing, assuring easy wetting for quick and accurate integrity test results. The compact design and available inlet and outlet fittings allow efficient integration of Z-Series Full-size Capsule Filters into a wide range of single-use systems. Z-Series Full-size Capsule Filters provide biopharmaceutical manufacturers with a filtration solution configured to meet their process needs.

Application

Buffers and Media		Product Sterilization	۶	Ophthalmic
Final Drug Product	۶	WFI		Pharmaceuticals
Vaccines		Biologics		Antibiotics
Scale up processing	\triangleright	Ultra-Pure Water		Serums

Part Number: LZT3S020GTCTC



LZ Series [Nominal 10-in Long], T-Type Capsule with 1.5" Tri-Clamp Inlet and Outlet Connection



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Technical Data Sheet

Popular Configuration:

Catalog Number	Micron Rating	Inlet Connection	Outlet Connection	Vent Connection	Gamma Sterilization		
LZT3S020GTCTC	0.2 μm (Single Layer)	1.5" Tri-Clamp	1.5" Tri-Clamp	Bleed Valve with 1/4" Hose Barb	up to 50kGy		
Find the complete list of available standard inlet and outlet fittings in page 5.							

Micron Rating:

Final Media: 0.2 µm PES [Sterilizing Grade Membrane]

Effective Filtration Area:

30-Inch Long; 22.5 ft^2 (2.1 m^2)

Materials of Construction:

Membrane: Pharmaceutical Grade PES (Polyethersulfone) Sterilizing Grade

Membrane Feature: Hydrophilic, Low Protein Binding, High Flow Rate

Media Supports: Polyester (PET)

Shell: Gamma Stable Polypropylene

Cage, Core, End Caps: Nylon

Valve O-Rings: Silicon (Standard)

Sealing: Thermally Bonded

Operating Conditions:

Maximum Forward Differential Pressure:

Liquid: 5.5 bar (80psi) at 77°F/25°C

Gas: 4.1 bar (60psi) at 77°F/25°C

Minimum Burst Pressure: 8.3 bar (120psi) at 77°F/25°C

Maximum Reverse Differential Pressure: 3.0 bar (44psi) at 68°F/20°C

Maximum Operating Temperature: 176°F/80°C



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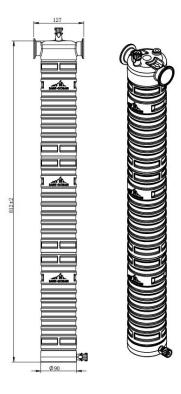






Nominal Dimension: All dimensions are in Millimeter

Part Number: LZT3S020GTCTC



Hold-Up Volume (Approx.):

Upstream Volume: 2.28 L

Downstream Volume: 558.40 mL

Typical Filtered Volume:

300.0L - 1,200.0L

Filter Integrity:

The finished product was sampled and shown to exhibit a minimum bubble point of \geq 18 psi (1.2 bar) in 60%IPA / 40% water and \geq 50 psi (3.5 bar) in DI Water (at 22°C).

Sterilization:

Gamma Irradiation: The filters can be Gamma Sterilized up to 50kGy.

Autoclave: The filters can be autoclaved up to 10 cycles at 125°C (257°F) for 30 minutes.

Warning: The filters cannot be sterilized by steam-in-place (SIP)

Shelf Life:

The LZ capsules have a shelf life of 3 years from the date of manufacture.



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Regulatory Compliance:

Category	Standard or Reference Test		
Physiochemical	 USP Oxidizable Substances USP <645> Conductivity USP <643> Non-Volatile Residue Total Organic Carbon (TOC) Analysis 		
Cleanliness	 USP <85> Bacterial Endotoxin Test USP <788> Particulate Matter 21 CFR 210.72 and 2010.3 (b) (6) Fiber Shedding 		
Biocompatibility	 ASTM F756-17 Hemolysis USP <88> (USP Class VI Plastics) Biological Reactivity Tests, In Vivo USP <87> / ISO 10993-5, In Vitro Cytotoxicity 21 CFR 177 FDA Indirect Food Additive 		
Bacterial Retention	Quantitative retention of 10 ⁷ CFU/cm ² <i>Brevundimonas diminuta</i> per ASTM methodology		
USP Bacterial Endotoxins	A representative sample from the lot is tested to confirm that an aqueous extraction of the product contains <0.25 EU/mL as determined by the Limulus Amebocyte Lysate (LAL) Test.		
Animal-derived Components	No animal-derived material is intentionally added or used during the manufacture of PureFlo Z Series PES Capsules.		
RoHS	Restriction of Hazardous Substances (RoHS 3) Directive 2015/863		
REACH	REACH (Registration, Evaluation, Authorization and Restriction of Chemicals) Article 57, Regulation No. 1907/2006)		
Traceability	 For traceability and easy identification: A Certificate of Conformance is provided with each capsule. Each filter bag and box are labeled with the product part number, lot number, and identifying characteristics. Each capsule is engraved and labeled with the product part number, number, lot number, and identifying characteristics. 		



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LZ- PureFlo® Z Series PES Full-Size Capsules

Ordering Guide

L Z [1] [2] [3] [4] [5] [6]								
[1]	[2]	[3]	[4]	[5] Inlet and [6] Outlet				
Filter Configuration	Filter Size Code [Filtration Area]	Micron Rating [Pre-Filter/Final Filter]	Vent/Drain	Inlet and Outlet Connection				
 I : I-Line T : T-Line 	 1 : 10-Inch [Filtration Area: 0.7 m²] 2 : 20-Inch [Filtration Area: 1.4 m²] 3 : 30-Inch [Filtration Area: 2.1 m²] 4 : 40-Inch [Filtration Area: 2.8 m²] 	 S010 : 0.1 μm S020 : 0.2 μm ZS010 : 0.2/0.1 μm ZS020 : 0.45/0.2 μm XS010 : 0.45/0.1 μm XS020 : 0.65/0.2 μm 	 G: 1/4" Bleed valve vent and drain J:1/4" Bleed valve (near inlet only) A: 1/4" Bleed valve (near outlet only) 	 1H : 1/8" Hose Barb 2H : 1/4" Hose Barb 3H : 3/8" Hose Barb 4H : 1/2" Hose Barb 5H : 9/16" Hose Barb MT : 1/2" Tri-Clamp TC : 1-1/2" Tri-Clamp 				

Example:

LZI3XS020G4H4H

FD

PureFlo LZ Series In-Line Full-Size Capsule, Highly Asymmetric Dual Layer PES 0.65µm / 0.2µm PES Sterilizing Grade Membrane, 30.0", Filtration Area 2.1 m², ¼" bleed valve vent and drain, 1/2" Hose Barb (Inlet/Outlet)

Part Number

Description



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Special Configuration:

Layer Option:

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Micron Rating Option:

- Single Layer
- **Dual Layer**
- S010 : 0.1 µm
- S020 : 0.2 µm
- ZS010 : 0.2/0.1 µm
- ZS020 : 0.45/0.2 µm
- XS010 : 0.45/0.1 μm
- XS020 : 0.65/0.2 μm

Vent/Drain Option:

- G: 1/4" Bleed valve vent and drain
- J:1/4" Bleed valve (near inlet only)
- A: 1/4" Bleed valve (near outlet only)

Inlet Fitting Option:

- 1H = 1/8" Hose Barb
- 2H = 1/4" Hose Barbs
- 3H = 3/8" Hose Barb •
- 4H = 1/2" Hose Barb
- 5H = 5/8" Hose Barb
- MT = 1/2" Tri clamps
- TC = 1-1/2" Tri clamp •

Outlet Fitting Option:

- 1H = 1/8" Hose Barb
- 2H = 1/4" Hose Barbs
- 3H = 3/8" Hose Barb
- 4H = 1/2" Hose Barb
- 5H = 5/8" Hose Barb
- MT = 1/2" Tri clamps
- TC = 1-1/2" Tri clamp



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