L Series PES - Dual Layer Full Size Filter Capsules

PureFlo® L-Series Full-size Capsule Filters feature an asymmetric hydrophilic PES membrane that demonstrates the exceptional capacity and flow performance in liquid applications. The L-Series Full-size Capsule filters offer full-scale filtration in various applications in the biopharmaceutical industry. The L-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 0.65 um / 0.2 um configuration has a state-of-the-art, highly asymmetrical DPES 0.65 um pre-filter, which yields 15%-20% more filtration volume than usual. The compact design and available inlet and outlet fittings allow efficient integration of L-Series Full-size Capsule Filters into a wide range of systems. L-Series Full-size Capsule Filters provide biopharmaceutical manufacturers with a filtration solution configured to meet their process needs.

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Application

- Buffers and Media
- SVP (Small Volume Parenteral)
- Vaccines
- Scale up processing

- Product Sterilization
- Bio Bags
- Biologics
- Ultrapure Water

- Fermentation Broths
- Pharmaceuticals
- Antibiotics
- Serums

Part Number: LI1DS065S020GTCTC-ETO



L-Series Full-Size Capsule with 1.5" Tri-Clamp Inlet and Outlet Connection







Technical Data Sheet

Popular Configuration:

Catalog Number	Micron Rating	Style	Inlet/Outlet Connection	Vent Connection	Sterilization
LI1DS065S020GTCTC-ETO	0.65 μm / 0.2 μm (Dual Layer)	In-Line	1.5" Tri-Clamp	Bleed Valve with 1/4" Hose Barb	ETO Sterilized

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]

Pre-Filter: Highly Asymmetric 0.65 µm PES

Effective Filtration Area:

10-inch long; $7.5 ft^2 (0.7 m^2)$

Materials of Construction:

Membrane: Pharmaceutical Grade PES (Polyethersulfone) Sterilizing Grade

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

Media Supports: Polypropylene

Shell, Cage, Core, End Caps: Polypropylene

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

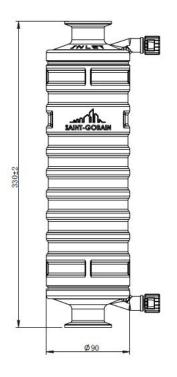
Maximum Operating Temperature: 176°F/80°C





Nominal Dimension: All dimensions are in Millimeter

Part Number: LI1DS065S020GTCTC-ETO





Hold-Up Volume (Approx.):

Upstream Volume: 916 ml Downstream Volume: 127 ml

Typical Filtered Volume:

100.0L - 400.0L

Sterilization:

Capsules can be autoclaved 25 times at 125 °C (257°F) for 30 minutes or chemically sanitized in situ using common sanitizing agents or hot water at 90 °C (194°F) for a limited time (dependent on time and temperature).

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





Regulatory Compliance 21CFR Part 177 & USP <88>:

The filters are constructed with polypropylene resins and filtration media in compliance with 21CFR Part 177 of the US Code of Federal Regulations and USP Class VI Biological USP <88>Test for Plastic.

USP <85> Bacterial Endotoxins:

The filters were tested to confirm that an aqueous extraction of this product contains <0.25 EU/ml as determined by the Limulus Amebocyte Lysate (LAL) Test

USP <645> Conductivity USP:

Effluent is tested during the manufacturing process and shown to meet the requirements for USP Sterile Water for Injection for conductivity.

Bacterial Retention ASTM F838-05:

The filters are quantitatively retentive towards Brevundimonas diminuta (ATCC #19146) at a minimum challenge level of 10^7 CFU per cm^2 of filtration area, consistent with ASTM F838-05

USP <87> / ISO 10993-5 Cytotoxicity:

Extract from this product is non-Cytotoxic

Hemolysis ASTM F756-17:

Extract from this product is non-Hemolytic

Human and Veterinarian Use:

The product is safe for Human and Veterinarian use. CGMP CFR part 210 & 211, additional requirement of 21 CFR part 600 and 21 CFR part 680 are applicable to the aseptic manufacturing process.

Animal-Derived Components & TSE/BSE Risk:

No animal-derived material is intentionally added or used during the manufacture of this product.

Shelf Life:

The L-Series capsules have a shelf life of 3 years from the date of sterilization.





L - Series PES Full-Size Capsules

Ordering Guide

L [1] [2] [3] [4] [5] [6] [7]								
[1]	[2]	[3]	[4]	[5] Inlet [6] Outlet	[7]			
Filter Configuration	Filter Size Code [Filtration Area]	Micron Rating [Pre-Filter /Final Filter]	Vent/Drain	Inlet and Outlet Connection	Sterilization			
I:I-LineT: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] 	 S020: 0.2 μm DS065S020: Highly	 G: 1/4" bleed valve vent and drain J: 1/4" bleed valve vent (1) only A: 1/4" bleed valve drain (2) 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 	-ETO Ethylene Oxide Sterilization [Only Available for 10-Inch]			

Example:

LI1DS065S020GTCTC-ETO

PureFlo L Series In-Line Full-Size Capsule, Highly Asymmetric Dual Layer PES 0.65µm / 0.2µm PES [Sterilizing Grade Membrane] Final Filter, 10.0", Filtration Area 0.7 m², ¼" bleed valve vent and drain, 1.5" Tri-Clamp (Inlet/Outlet), ETO Sterilized (Factory Sterilized)

Part Number Description







Special Configuration:

Layer Option:

- Single Layer
- Dual Layer

Micron Rating Option:

- S020 : 0.2 µm
- DS065S020 : Highly Asymmetric 0.65/0.2 μm
- DS045S020 : Highly Asymmetric 0.45/0.2 μm
- DS045S010 : Highly Asymmetric 0.45/0.1 μm
- S080020: 0.8/0.2 μm
 S020010: 0.2/0.1 μm

Vent/Drain Option:

- G: 1/4" bleed valve vent and drain
- J: 1/4" bleed valve vent (1) only
- A: 1/4" bleed valve drain
 (2) 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





