



International Filter Products

Revolutionary systems for your industry

L Series PES –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 Full-size Capsule filters offer full-scale filtration in various applications in the biopharmaceutical industry. This 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 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.

Application

- Buffers and Media
- LVP (Larger Volume Parenteral)
- Vaccines
- Scale up processing
- Product Sterilization
- Bio Bags
- Biologics
- Ultrapure Water
- Fermentation Broths
- Pharmaceuticals
- Antibiotics
- Serums

Part Number: LT1S020GTCTC



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



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Technical Data Sheet

Popular Configuration:

Catalog Number	Micron Rating	Style	Inlet/Outlet Connection	Vent Connection	Sterilization
LT1S020GTCTC	0.2 μm (Single Layer)	T-Type	1.5" Tri-Clamp	Bleed Valve with 1/8" Hose Barb	Optional
❖ Find the complete list of available standard inlet and outlet fittings in page 5.					

Micron Rating:

Final Media: 0.2 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

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: LT1S020GTCTC



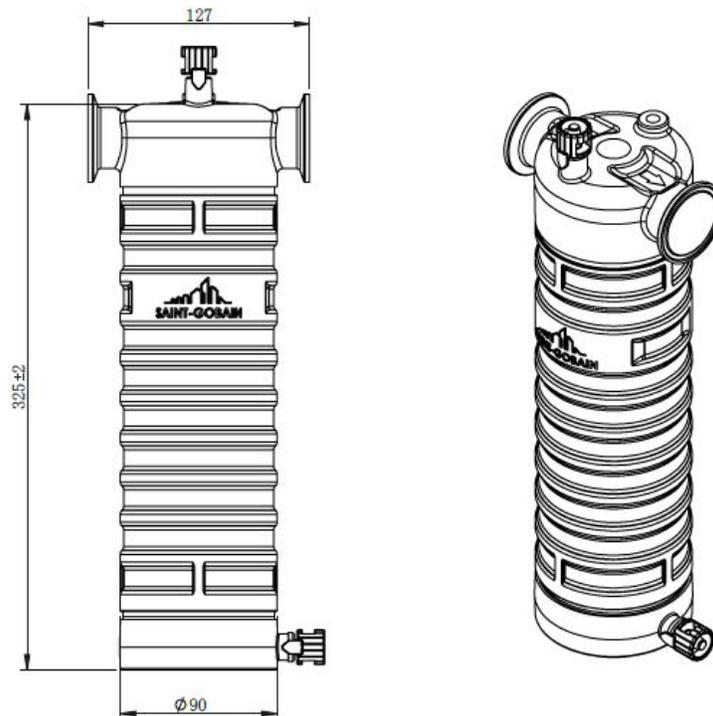
www.internationalfilterproducts.com
7914 Ajay Dr.
Sun Valley, CA 91352
Tel: (818) 504-8115 - Office
Tel: (818) 917-9538 - Cell
E-mail: sales@internationalfilterproducts.com





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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:

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 Test for Plastic.

USP 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



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USP Conductivity:

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

Bacterial Retention:

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

ISO 10993-5 Cytotoxicity:

Extract from this product is non-Cytotoxic

ASTM Hemolysis:

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





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[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
<ul style="list-style-type: none"> I : I-Line T : T-Line 	<ul style="list-style-type: none"> 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] 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> G : 1/4" bleed valve vent and drain J : 1/4" bleed valve vent (1) only A : 1/4" bleed valve drain (2) only 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> -ETO Ethylene Oxide Sterilization [Only Available for 10-Inch]

Example:

LI1DS065S020G4H4H-ETO

PureFlo L Series In-Line Full-Size Capsule, Highly Asymmetric Dual Layer PES 0.65µm / 0.2µm Final Filter, 10.0", Filtration Area 0.7 m², ¼" bleed valve vent and drain, 1/2" Hose Barb (Inlet/Outlet), ETO Sterilized (Factory Sterilized)

Part Number

Description

Special Configuration:



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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:

In-Line:

- F: 1/4" Bleed valve
- G: 1/4" Bleed valve (near inlet only)
- H: 1/4" Bleed valve (near outlet only)

T-Line:

- 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

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

