LOPAC SP

Sterilizing Filter

LOPAC SP series filter is made of modified polyethersulfone membrane (PES) with good hydrophilicity and low protein adsorption. It is suitable for sterilizing filtration of process fluid, buffer and column protection.

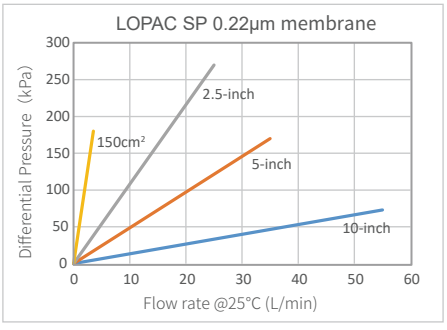
Product Features

- Reliable bacterial retention
- Excellent chemical compatibility (pH 1-14)
- Unique double layer membrane design for increased loading capacity
- Rugged construction for multiple sterilization cycles

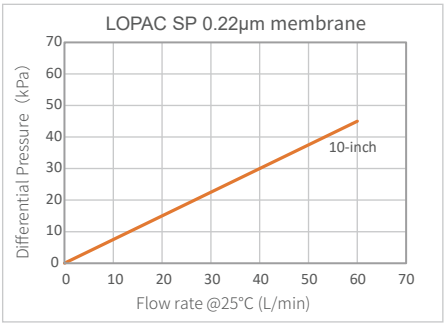
Typical Application

- Sterilization filtration of cell culture media
- Buffer filtration
- Pre-Column / Pre-Ultrafiltration Protective Filtration
- Sterilization Filtration of end products

Flow rating



Sterilizing Capsule Filter



Sterilizing Cartridge Filter

Dimensions

Filter Type		Disc Filter	Capsule Filter				Cartridge Filter					
Nominal size (inches)		Φ50mm	S	2.5	5	10	Dimension	2.5	5	10	20	30
Filtration Area (m^2)	Single Layer	15cm^2	180cm^2	0.073	0.23	0.63	D63 D70	0.11 0.15	0.23 0.30	0.45 0.60	0.90 1.20	1.35 1.80
	Double Layer	15cm^2	160cm^2	0.065	0.20	0.60	D63 D70	0.11 0.15	0.23 0.30	0.45 0.60	0.90 1.20	1.35 1.80
Filter Aperture		0.22μm、0.45μm+0.22μm										
Materials of Construction		Support Layer: PP End Cap: PP Adaptor: PP，222/226 metal reinforcement Sealing Ring: Silicon / Viton / EPDM / TEV Hot-Melt Technology: Adhesive free technology Membrane material: PES										
Maximum differential pressure	Forward	2bar（29psi）@20°C	L、M: 5bar（72.5psi）@20°C 3bar（43.5psi）@50°C S: 4bar（58psi）@20°C				5bar（72.5psi）@25°C 2bar（29psi）@80°C					
	Backward	2bar（29psi）@20°C	2bar（29psi）@20°C 1.5bar（22psi）@50°C				2bar（29psi）@25°C					
Sterilization		Resistant to autoclaving and irradiation.	Autoclave: 134°C*30min*25 times Irradiation: <50 kGy				Autoclave: 134°C*30min*25 times Online steam sterilization: 134°C*30min*25 times (Δp≤0.3bar)					
Bacterial interception		>10^7cfu / cm^2 B.diminuta (ATCC 19146)										
Component Material Toxicity		Components materials meet the criteria of the USP<88> Biological Reactivity for Class VI										
Cleaness		Comply with FDA 21 CFR 211.72 and 210.3(b)(5)(6) for fiberless shedding filters, and USP <788> for insoluble particulate levels in the rinse solution.										
Ingredient Material Toxicity		Component materials meet USP <88> Class V plastics reaction test standards.										
Bacterial Endotoxin		Aqueous extraction contains <0.25 EU/mL which meet USP<85> requirements										
Integrity		Each cartridge/filter passes 100% integrity testing before it leaves the factory.										
Production environment		All produced in 100,000 class clean room										

Order Info.

Capsule Filter

LS	S	02	H	01	N	A
Name: LS: LOPAC SP	Size: S M L	Pore size: 02: 0.22μm D02: 0.45+0.22μm	Connector Type: S: 1½" tri-clamp 50.5 mm T: ½"(13mm) single-stepped hose barb F: ¾" tri-clamp 25 mm H: ¼"(6mm) multiple-stepped hose barb N: ¼" (6mm) multiple-stepped hose barb witph rotector Type S: H、N; Type M: T、F; Type L: S、T;	Dimensions: 01: 180cm^2 02: 2.5" 05: 5" 10: 10"	O-ring: E: EPDM S: Silicone V: Viton C: TEV N: N/A N for S type only	Sterilization: A: Resistant to autoclaving and irradiation. G: Irradiated

Cartridge Filter

LS	C	02	A	05	E	A
Name: LS: LOPAC SP	Outer diameter: C: ϕ63 D: ϕ70	Retention ratings: 0.4: 0.45 μm 10: 1.0 μm F04: 1.2+0.45μm	Adapter configurations: A: Single opening/flat end/222 metal reinforcement B: Single opening/fin end/222 metal reinforcement C: Single opening/flat end/226 metal reinforcement D: Single opening/fin end/226 metal reinforcement	Size: 05: 5" 10: 10" 20: 20" 30: 30"	O-ring: E: EPDM S: Silicone V: Viton C: TEV	Sterilization: A: Autoclaving sterilization

Disc Filter

LS	F	02	H	01	N	A
Name: LS: LOPAC SP	Disc	Retention ratings: 02: 0.22μm D02: 0.45+0.22μm	Adapter configurations: H: ¼" multiple-stepped hose barb	Area: 01: 15cm^2	O-ring: N: N/A	Sterilization: A: Resistant to autoclaving and irradiation. G: Irradiated

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