

Masterfilter SLF-L series

The Masterfilter *OptiFluor* SLF-L cartridges are composed of hydrophobic PTFE membrane. Its features include exceptional organic and inorganic corrosion resistance and inherently hydrophobicity. They are highly recommended for the pre-filtration and sterile filtration of strong solvents, highly corrosive fluids and strong oxidant fluids.

Applications

- Organic-based antibiotic liquids
- API
- Solvents

Features and Benefits

- Inherently hydrophobic
- Broad chemical compatibility
- Absolute rating from 0.2 to 10 microns
- Low extractables
- Pleated surface provides excellent flow rates

Materials of Construction

- Filter media: Hydrophobic PTFE membrane
- Support layers: Polyphenylene
- Inner core: Polypropylene
- Outer cage: Polypropylene
- End caps: Polypropylene
- End cap insert: Stainless steel
- O-rings: EPDM, Silicone, Viton, PTFE enc. Viton

Operating Parameters

- Max. operating pressure: 6.9 bar at 25 °C, 4.0 bar at 60 °C, 2.4 bar at 80 °C
- Max. differential pressure forward: 6.9 bar at 25 °C, 4.0 bar at 60 °C, 2.4 bar at 80 °C
- Max. differential pressure reverse: 3.0 bar at 25 °C, 1.0 bar at 80 °C
- Sterilisation: Inline up to 100 cycles at 135 ° for 30 minutes
- Autoclave: up to 400 cycles at 130 °C for 30 minutes
- Effective Filtration area: 0.78 m² 10" module



Quality Assurance

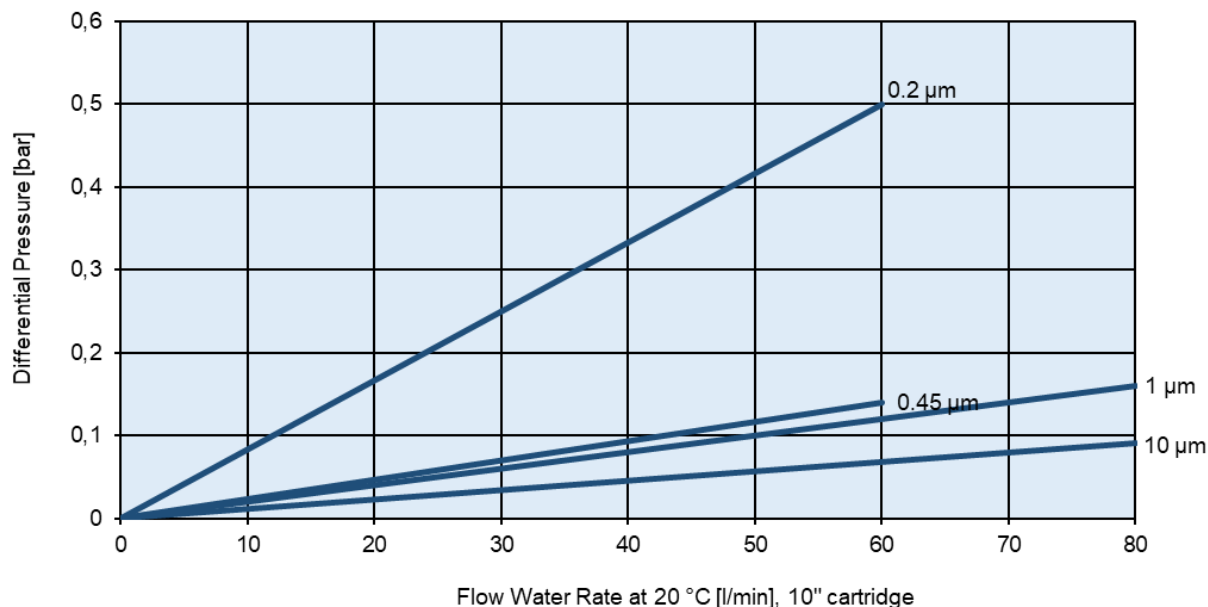
- These products are manufactured in a facility which adheres to ISO 9001:2015 Practices

Biological Safety

- Retention of 10⁷ cfu/cm² *Brevundimonas diminuta* (ATCC®19146) according to ASTM F838
- Autoclaved filter effluent meets the requirements in USP <788> for large volume parenterals
- Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3 (b) (6)
- Aqueous extraction of autoclaved filter contains < 0.25 EU/mL as determined by Limulus Amebocyte Lysate (LAL), USP <85>
- Meet the criteria of the USP <88> Biological Reactivity Test for Class VI-121°C plastics
- All component materials meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182

Flow Rate Characteristics

Flow Rate Characteristics SLF-L 0.2 | 0.45 | 1 | 10 µm



Part Numbers

SLF-L 0020 - 10 HSF - S

Code	Removal rating [µm]
0020	0.2
0045	0.45
0100	1
0200	2
0300	3
0500	5
1000	10

Code	Length	
	[mm]	[inch]
05	127	5
10	254	10
20	508	20
30	762	30
40	1016	40

Code	End caps
DOE	Double end caps
HTC	222 O-ring/flat (Code 3)
HTF	222 O-ring/fin (Code 8)
HSF	226 O-ring/fin (Code 7)
STC	Sartorius code 28
SLV	MCY 4440
STT	126 O-ring
SLK	Sealkleen connection

Code	O-Ring
S	Silicone
E	EPDM
P	PTFE enc. Viton
V	Viton

e.g. part number: SLF-L0020-10-HSF-S

SLF-L filter, 0.2 µm, 10" Length, End caps Code 7, Silicone O-rings