

### Masterfilter SLF-T series

Masterfilter *OptiFluor* SLF-T series filter cartridges manufactured with permanently hydrophobic PTFE membranes are designed for sterile filtration of air and gas. Due to their permanent hydrophobicity, SLF-T cartridges offer high process security, with high volume gas streams and can withstand to high differential pressures and stringent in-line steam sterilisations.

### Applications

- Gas filtration
- Venting
- Sterile air supply
- Pharmaceuticals
- Fermentation
- Food

### Features and Benefits

- 0.2 µm rated
- Pleated surface provides excellent flow rate and long service life
- Permanently hydrophobic PTFE for maximum security with wet and dry gas
- PTFE offers compatibility with most chemicals
- Suitable for all integrity test procedure incl. WIT

### Materials of Construction

- Membrane: Hydrophobic PTFE
- Support layers: Polypropylene
- Inner core: Polypropylene
- Outer cage: Polypropylene
- End caps: Polypropylene
- Internal adapter: Stainless steel or PBT
- O-rings: EPDM, Silicone, Viton, FEP/PFA encapsulated

### Operating Parameters

- Maximum operating pressure: 6.9 bar at 25 °C, 4.0 bar at 60 °C, 2.4 bar at 85 °C
- Maximum differential pressure reverse: 3.0 bar at 25 °C, 1.0 bar at 80 °C
- Sterilisation: Recommended 100 cycles for 30 minutes at 145 °C (differential pressure < 0.3 bar) forward and 50 cycles for 30 minutes at 145 °C (differential pressure < 0.1 bar) reverse
- Autoclave: Recommended 400 cycles at 30 minutes at 130 °C
- Effective Filtration Area: 0.85 m<sup>2</sup> 10" Module



### Quality Assurance

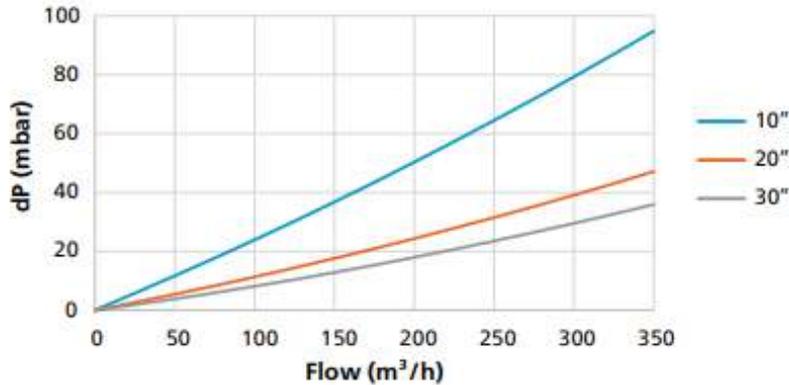
- Cartridges produced in a controlled environment
- Manufactured under ISO 9001:2015 certified quality management system and cGMP

### Biological Standards

- Retention of 10<sup>7</sup> cfu/cm<sup>2</sup> *Brevundimonas diminuta* (ATCC®19146) according to ASTM F838
- Component materials meet the criteria for a "Non-fiber-releasing filter" as a 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>
- Autoclaved filter effluent meets the requirements in USP <788> for large volume parenterals
- 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



Note: 10" cartridge tested with air @ 20°C/7 barg (typical flow rate)

### Part Numbers

SLF-T 002 - 10 - HSF - S

Code	Removal rating [µm]
002	0.20

Code	Length	
	[mm]	[inch]
02	51	2
2.5	70	2.5
05	127	5
10	254	10
20	508	20
30	762	30
40	1016	40

Code	End caps
STC	Sartorius code 28
HTC	222 O-ring/flat (Code 3)
HTF	222 O-ring/fin (Code 8)
HSF	226 O-ring/fin (Code 7)
HSC	226 O-ring/flat (Code 2)
HST	MCY 4463 (Code 18)
SLV	MCY 4440
STZ	Dh Z
STT	True-seal (Babycode 7)
CP2	R-2"
HSH	H code
HSU	MCY 1001
SLK	Sealkleen connection
HSM	Millipore hold down tabs
DHA	0.5" threaded
SBF	Pall SBF

Code	O-rings
S	Silicone
E	EPDM
P	FEP/PFA encapsulate d
V	Viton

e.g. part number: SLF-T002-10-HSF-S

Hydrophobic PTFE membrane filter, 0.2 µm, 10" Length, Code 7 End caps, Silicone O-rings