

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 differential pressure forward: 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 m² 10" Module



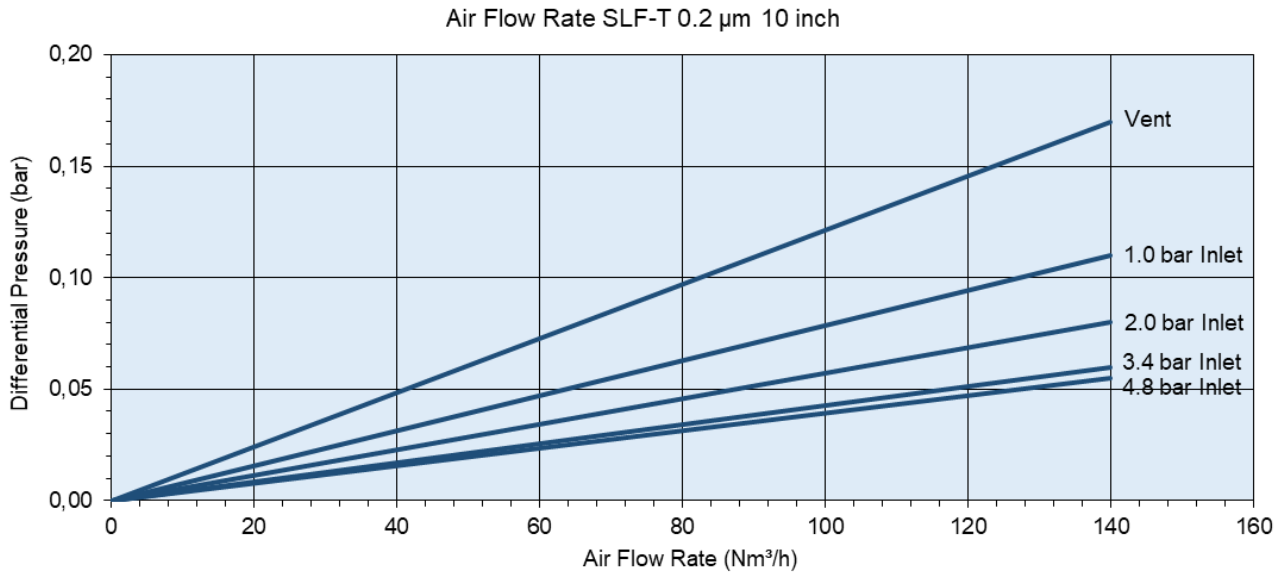
Quality Assurance

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

Biological Standards

- Retention of 10⁷ cfu/cm² *Brevundimonas diminuta* (ATCC®19146) according to ASTM F838
- 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>
- 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



Part Numbers

SLF-T 002 - 10 - HSF - S

Code	Removal rating [µm]	Code	Length		Code	End caps	Code	O-rings
			[mm]	[inch]				
002	0.20	02	51	2	STC	Sartorius code 28	S	Silicone
		2.5	70	2.5	HTC	222 O-ring/flat (Code 3)	E	EPDM
		05	127	5	HTF	222 O-ring/fin (Code 8)	P	FEP/PFA encapsulated
		10	254	10	HSF	226 O-ring/fin (Code 7)	V	Viton
		20	508	20	HSC	226 O-ring/flat (Code 2)		
		30	762	30	HST	MCY 4463 (Code 18)		
		40	1016	40	SLV	MCY 4440		
					STZ	Dh Z		
					STT	126 O-ring		
					CP2	R-2"		
					HSH	H code		
					HSU	MCY 1001		
					SLK	Sealkleen connection		
					HSM	Millipore hold down tabs		
					DHA	0.5" threaded		
					SBF	Pall SBF		

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