

SLF (D)HT Series

PTFE cartridges for critical air and gas filtration



Masterfilter SLF-(D)HT series filter cartridges manufactured with hydrophobic PTFE membranes with advanced high-temperature resistance. They are designed for sterile filtration of air and gas. Due to their permanent hydrophobicity, SLF cartridges offer high process security, and can withstand high temperatures continuous process conditions, ozonized water venting applications and stringent in-line steam sterilizations.

Application

- Sterile hot air supply
- O₂ enriched air
- Venting high temp. products
- WFI tank venting
- Autoclaves
- Fermenter air inlet



Features and Benefits

- 0,2 µm absolute rated challenged in liquid
- Oxidation-resistant materials provide longer service life in air and vent applications
- Permanently hydrophobic PTFE for maximum security with wet and dry gas
- PTFE offers compatibility with most chemicals
- Exceptionally high flow rates with low delta p
- Suitable for all integrity test procedure including WIT (requires no alcohol)

Food and Biological Safety

- Comply with the relevant requirements of EU 1935/2004, EU directive 10/2011, according to 21CFR and current USP Plastics Class VI
- Comply with USP Plastics Class VI - 121 °C and ISO10993 equivalents
- Tested with B. diminuta (ATCC191546) at > 10⁷ cm²
- Non fibre releasing per Title21 of the US Code of Federal Regulations (CFR)

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Materials of Construction

- **Filter media:** Hydrophobic PTFE
- **Support Layers:** Polyphenylenesulphide PPS
- **Inner Core:** Polypropylene
- **Outer Cage:** Polypropylene
- **End Caps:** Polypropylene
- **End Cap insert:** PBT/Stainless 304 insert
- **O-Rings:** EPDM/Silicone

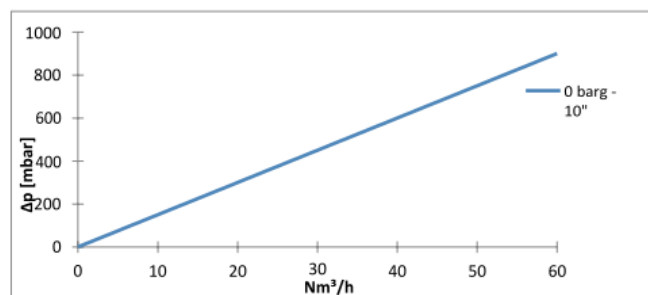
Operating Parameters

- **Maximum Differential Pressure:** 5,4bar (50°C) forward
4,1bar (80°C) forward
- **Max operating temperature:** 90°C
- **In situ steam Sterilization:** 142°C up to 100 hr
- **Autoclaving:** 134°C 30min
- **Filtration area:** 0,82 m²/10"

Effective Filtration Area

SLF-HT002	5 inch	0,42 m ²
(Single layer)	10 inch	0,22 m ²
SLF-DHT002	5 inch	0,36 m ²
(Double layer)	10 inch	0,74 m ²

Cartridge Flow Rates 10" (254mm) @20°C



Integrity Test Data (Water Intrusion Test)

SLF-HT002 5 inch – max 0,19 ml/min@2500 mbar
(Single layer) 10 inch – max 0,35 ml/in@2500 mbar

SLF-DHT002 5 inch – max 0,16 ml/min@2500 mbar
(Double layer) 10 inch – max 0,33 ml/in@2500 mbar

Part Numbers

SLF-HT

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	Removal rating	Code	length		Code	end caps	Code	O-Rings
			mm	inch				
002	0,2µm	2,5	70	2,5	STC	Sartorius code 28	S	Silicone
		05	133	5	HTC	222 O-ring/flat (Code 3)	E	EPDM
		10	254	10	HTF	222 O-ring/fin (Code 8)	V	Viton
		20	508	20	HSF	226 O-ring/fin (Code 7)		
		30	762	30	HSC	226 O-ring/flat (Code 2)		
					HST	P-MCY4463 Sart-15		
					SLV	P-MCY 111/222/444		
					STZ	dh Z		
					STT	116 O-ring		
					CP2	R-2"		
					HSH	H code		
					HSU	MCY 1001		