

# SLF (D)HT Series

PTFE cartridges for critical air and gas filtration

**MF**  
Masterfilter

**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
- O<sub>2</sub> 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 > 10<sup>7</sup> cm<sup>2</sup>
- 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

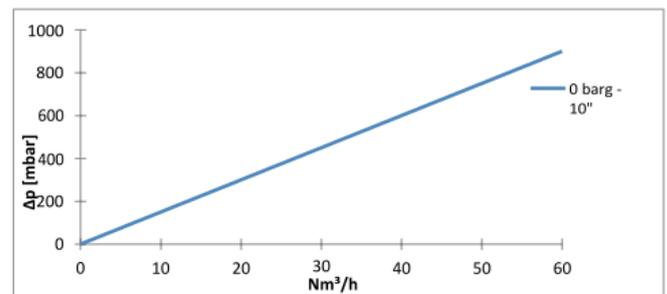
## Operating Parameters

- **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 m<sup>2</sup>/10''

## Effective Filtration Area

|                   |         |                     |
|-------------------|---------|---------------------|
| <b>SLF-HT002</b>  | 5 inch  | 0,42 m <sup>2</sup> |
| (Single layer)    | 10 inch | 0,22 m <sup>2</sup> |
| <b>SLF-DHT002</b> | 5 inch  | 0,36 m <sup>2</sup> |
| (Double layer)    | 10 inch | 0,74 m <sup>2</sup> |

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



## Integrity Test Data (Water Intrusion Test)

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

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

## Part Numbers



|     | 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                 |      |          |