

Masterfilter SLF-G series

The Masterfilter *OptiFluor* SLF-G series cartridges are composed of super-fine glass microfiber which has a dirt holding capacity over 90%. They are designed for filtration of air and gas. Due to the high removal efficiency, SLF-G cartridges offer high process security, with high volume gas streams and can withstand high differential pressures at low pressure drop and stringent in-line steam sterilisations.

Applications

- CO₂ filtration
- Venting in pharmaceutical, food and beverage and fine chemical industries
- Sterile air supply
- Pre-filter gas in front of membrane filters

Features and Benefits

- 0.01 µm, 0.3 µm, 0.5 µm rated
- High dirt holding capacity
- Steam sterilisable
- For tank venting
- Low pressure drop
- High surface area

Materials of Construction

- Filter media: Super-fine glass fiber
- Support layers: Polypropylene
- Inner core*: Stainless steel/Polypropylene
- Outer cage: Polypropylene
- End caps: Polypropylene
- End cap insert: Stainless steel 304
- O-rings: EPDM, Silicone, Viton

*Inner core: Cartridges > 5" (10", 20", 30") in code HSF, HTF, HSH, in stainless steel with diameter of 42.5 mm. Cartridges < 5" in code HST, STT in polypropylene



Operating Parameters

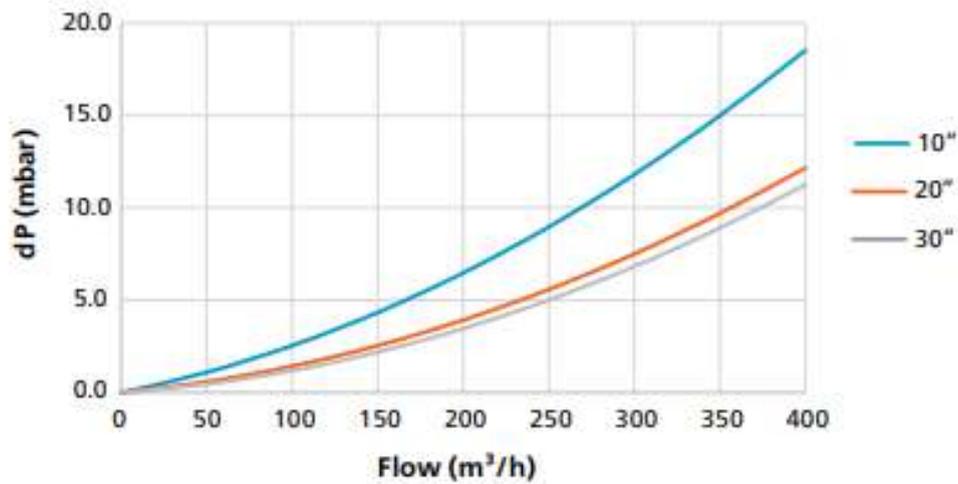
- Max. differential pressure: 5.5 bar at 25 °C, 2.1 bar at 100 °C
- Max. operating temperature: 90 °C
- In situ steam sterilisation: 121 °C for 20 minutes with differential pressure of 0.3 bar
- Autoclaving: 134 °C for 30 minutes
- Filtration area: 0.4 m²/10"

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

Flow Rate Characteristics

Flow rate



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

Part Numbers

SLF-G 030 - 10 HSF - S

Code	Removal rating [µm]
001	0.01
030	0.30
050	0.50

Code	Length	
	[mm]	[inch]
1.5	34	1.5
2.5	65	2.5
05	133	5
10	254	10
20	508	20
30	762	30

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 top
HST	P-MCY I/S – 15
STZ	dh Z
CP2	R-2"
CP1	R-1"
HSH	H code
DHA	½" BSP
HSU	MCY 1001
HSM	1110 / Millipore
STT	T-code bajonet

Code	O-Ring
S	Silicone
E	EPDM
P	Viton

e.g. part number: SLF-G-030-10-HSF-S

SLF-G filter, 0.3 µm, 10" Length, End caps Code 7, Silicone O-rings

Contact Masterfilter:

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