

SLF Series PTFE cartridges For sterile air and gas

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

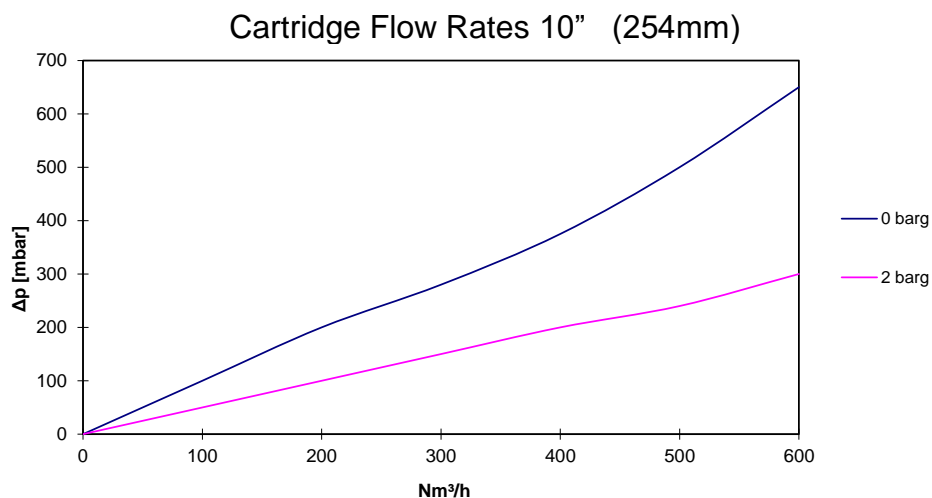
Features and Benefits

- 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



Applications

- CO₂ filtration
- Venting
- Sterile air supply
- Beer filling
- Wort aeration
- Fermentation



Materials of construction

- Filter media: Hydrophobic PTFE
- Support layer: Polypropylene
- Inner core: Polypropylene
- Outer cage: Polypropylene
- End caps: Polypropylene
- End cap insert: Stainless 304
- O-Rings: EPDM/Silicone

Operating Characteristics

Maximum Differential Pressure	5bar (20°C) 3bar (85°C)
Max. back pressure	2bar (20°C)
In situ steam Sterilization	121°C 20min
in situ Hot Water Sanitization	80°C
Autoclaving	134°C, 30min
Max Steam temp	142°C

Food and Biological Safety

Comply with the relevant requirements of EU 1935/2004 and EU directive 10/2011

Comply with USP Plastics Class VI - 121 °C and ISO10993 equivalents

Max. continuous Air Inlet Temp.

60°C

Integrity Test Data:

Cartridge Size	Test Pressure		Diffusional Flow [ml/min]	Water intrusion test Pressure		Water flow [µl/10min]
	[bar]	[psi]		[bar]	[psi]	
2,5 mini	0,8	11,6	2,8	2,5	36,2	588
5 mini	0,8	11,6	5,6	2,5	36,2	1178
05	0,8	11,6	7,7	2,5	36,2	1796
10	0,8	11,6	16,6	2,5	36,2	3782
20	0,8	11,6	33,3	2,5	36,2	7564
30	0,8	11,6	49,9	2,5	36,2	11346

Ordering Information

SLF-T - - -

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	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			