

LFS

Asymmetric & Hydrophilic PES Filter Cartridge



Description

LFS filter cartridges are integrity testable membrane filters especially developed for filtration in the Food & Beverage Industry. They are characterised by a unique highly asymmetric, hydrophilic polyethersulfone membrane, offering high throughputs, low protein adsorption and superior microbiological safety.

Features and Benefits

- Broad chemical compatibility
- Low protein binding
- Good heat-resistance
- Long service life and high flow rates
- Integrity testable

Quality

- Cartridges produced in a controlled environment
- Manufactured according to ISO9001 certified Quality Management System

Application

- Sterile filtration for beverage, wine, draft beer and other drinks
- Sterile filtration for water
- Terminal filtration during food process



Specification

Materials of Construction

<i>Membrane</i>	Asymmetric, Hydrophilic PES
<i>Support & Drainage</i>	PP
<i>Core, Cage</i>	PP
<i>End Caps</i>	PP (222/226 with encapsulated stainless steel reinforcing ring)
<i>O-rings/Gasket</i>	Silicone/EPDM/Viton/TEV
<i>Sealing technology</i>	Thermal Bonding, No Adhesives

Dimensions

<i>Diameter</i>	Φ68mm
<i>Length</i>	5 inch, 10 inch, 20 inch, 30 inch, 40 inch

Filtration Area, ft²

≥ 6.4 per 10-inch cartridge

Pore Size, μm

0.1, 0.22, 0.45, 0.65, 0.8, 1.2, 3.0

Maximum Differential Pressure

Forward: 4.2 bar @ 23 °C(60.9psi@73.4°F); 1.5 bar @ 85 °C(21.7psi@185°F)

Integrity Test-water bubble point at 23 °C(73.4°F)

<i>0.22 μm</i>	≥ 3100 mbar(44.96psi)
<i>0.45 μm</i>	≥ 1800 mbar(26.1psi)

Bacterial Retention

<i>0.22 μm</i>	>10 ⁷ CFU/cm ² <i>Brevundimonas diminuta</i> (ATCC19146)
<i>0.45 μm</i>	>10 ⁷ CFU/cm ² <i>Serratia marcescens</i> (ATCC14041)

Non-Fiber Releasing

Meets the criteria for a "non-fiber releasing" filter as defined in 21 CFR 210.3 (b) (6).

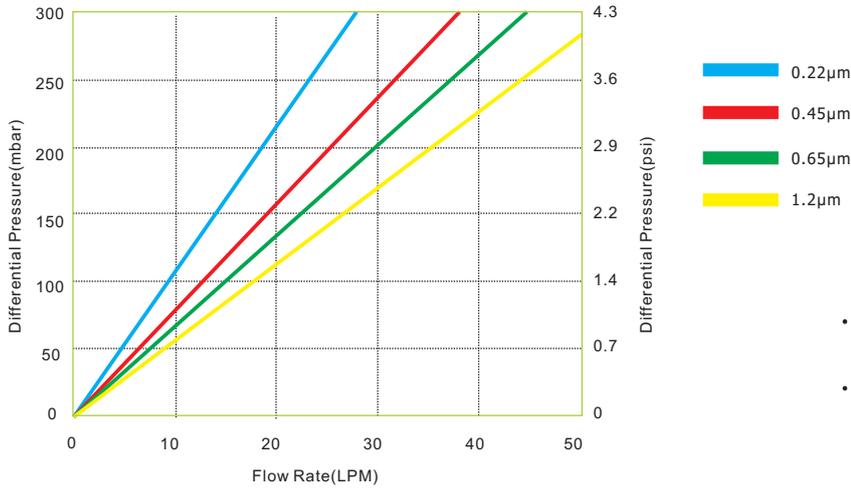
Sanitization

May be hot water sanitized for 30 cycles using purified water at 85°C(185°F) for 30 minutes.

Bacterial Endotoxins

<0.25 EU/ml as determined by the LAL test.

Typical Liquid Flow Rate @ 23°C(73.4°F)



- Typical initial clean media ΔP ;
water at 23 °C (73. 4°F) viscosity 1cP.
- For assistance in sizing,
please contact ANOW.

Ordering Information

This information is a guide to the Part No. structure and possible options.

For availability of specific options and housing details, please contact ANOW.

LF		S		022		C		10		S		B	
Code	Grade	Code	Membrane	Code	Rating (µm)	Code	End Cap Configuration	Code	Length (inch)	Code	Seal	Code	Support
LF	Food & Beverage	S	PES	010	0.1	A	222/Fin	05	5	S	Silicone	A	PP
				022	0.22	B	222/Flat	10	10	E	EPDM	B	High Temperature Resistant PP
				045	0.45	C	226/Fin	20	20	V	Viton		
				065	0.65	D	226/Flat	30	30	T	TEV		
				080	0.8	E	DOE	40	40			C	PP with Stainless Steel Core
				120	1.2								
				300	3.0								

End Cap Code

