

Main applications

Sterilisation and bioburden reduction (stabilisation)
of water and water-based solutions

Pharma downstream
Pharma upstream

Ophthalmic
Cosmetic

Wine
Beer
Beverage

Chemical



Characteristics

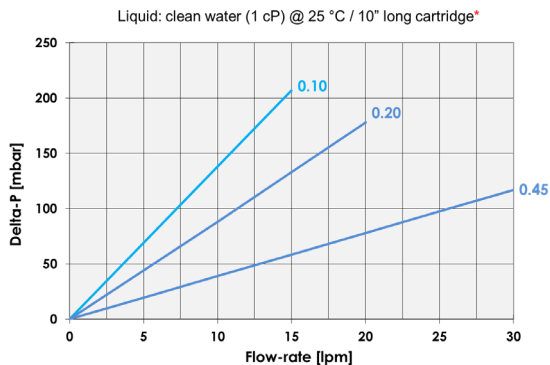
- Double layer pleated asymmetric PES filter membrane
- Polypropylene hardware and filter media support
- High flowrate with low pressure drop
- High filter area
- Wide sterilisation efficiency
- Wide chemical compatibility
- Materials conform to FDA
- USP Class VI requisition
- Conform to 1935/2004/CE Directive
- Free from fibers release
- Fabricated in clean room
- 100% integrity tested

Specifications

SPECIFICATIONS					
Prefilter layer grade	A	B	C	D	E
Prefilter layer filtration rating (μm)	0.1 μm	0.2 μm	0.45 μm	0.6 μm	0.8 μm
Final layer grade	10	20	45		
Final layer filtration rating (μm)	0.1 μm	0.2 μm	0.45 μm		
Filter media	Double layer asymmetric Polyethersulfone membrane				
Filter media supports	Polypropylene				
End caps material	Polypropylene				
Cage material	Polypropylene				
Core material	Reinforced polypropylene				
OD	69mm				
Nominal length	5" to 40"				
EFA	5" \geq 0.28 m ² - 10" \geq 0.55 m ²				
Max. working temperature	80 °C				
Max. Delta-P (forward)	5.2 bar @ 25 °C				
Max. Delta-P (reverse)	2.1 bar @ 25 °C				
Recommended replacement Delta-P	2.4 bar @ 25 °C				

We reserve the right to change the technical data of this specification without notice.

Flow-rate vs. Delta-P information



*Depending on the chosen prefilter, the flow rate may vary.

For liquid with different viscosity than water multiply the Delta-P by the liquid viscosity in cP.

Biological safety and extractable

Bacteria Endotoxin ≤ 0.25 EU/ml
Extractable ≤ 40 mg/10 inch

Integrity test data

Pore size	Bubble point	Diffusion / 10"	Testing conditions
0.10µm	≥ 4.0 bar	≤ 18 ml/min @ 3.2 bar	Wetting liquid: pure water Test gas: compressed air Test ambient temperature: 25 °C
0.20µm	≥ 3.3 bar	≤ 18 ml/min @ 2.6 bar	
0.45µm	≥ 1.8 bar	≤ 18 ml/min @ 1.4 bar	

Regulatory compliance

The manufacturing materials comply with the requirements of:

- CFR21 Part 177
- USP88 Class VI
- 1935/2004/CE for food products contact
- ASTM F838-83
- ISO 10993-Part 1, 5
- EN 285:2015

Sterilisation

Steam sterilisation in place: up to 124 °C for 30 minutes, 30 cycles @ 0.5 bar Delta-P
up to 134 °C for 20 minutes, 30 cycles @ 0.5 bar Delta-P

Steam sterilization in autoclave: up to 124 °C for 30 minutes, 30 cycles
up to 134 °C for 20 minutes, 30 cycles

In case of sterilisation with steam in place (SIP) or in autoclave, the end caps with SS insert must be selected.
After sterilisation, always cooldown at operating temperature the filter cartridges prior to use.

Contact us for further information.

