

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

Main applications

Air, Gases and Vent sterile filtration.
Pharma downstream
Pharma upstream

Dairy
Wine
Beer
Food & beverage

Chemical



Characteristics

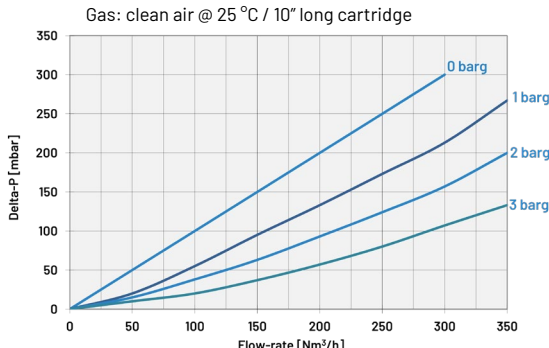
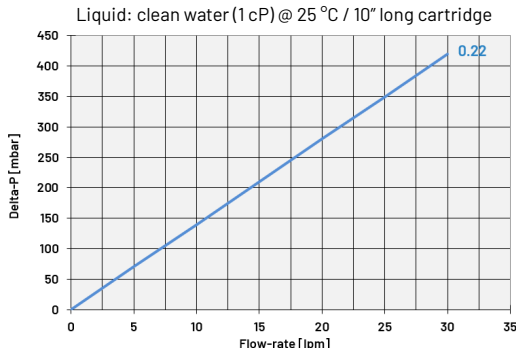
- Dual layer pleated expanded PTFE filter membrane
- Polypropylene hardware and filter media support
- High flowrate with low pressure drop
- High filter area
- Suitable for high temperature severe sterilisation
- Wide chemical compatibility
- Materials conform to CFR21 Part 177
- USP Class VI requisition
- Conform to 1935/2004/CE Directive
- Free from fibers release
- Fabricated in clean room
- 100% integrity tested

Specifications

SPECIFICATIONS	
Grade	0.20
Filtration rating (μm)	0.2 μm
Filter media	Double layer hydrophobic PTFE membrane
Filter media supports	Polypropylene
End caps material	Polypropylene
Cage material	Polypropylene
Core material	Reinforced polypropylene or 316L-SS
OD	69mm
Nominal length	5" to 40"
EFA	5" \geq 0.36 m ² - 10" \geq 0.74 m ²
Max. working temperature	80 °C
Max. Delta-P (forward)	5.2 bar @ 25 °C - 2.7 bar @ 80 °C
Max. Delta-P (reverse)	2.1 bar @ 25 °C - 1.6 bar @ 80 °C
Recommended replacement Delta-P	2.4 bar @ 25 °C

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Flow-rate vs. Delta-P information



For liquid with different viscosity than water multiply the Delta-P by the liquid viscosity in cP.
 For gases different than air: Delta-P = DP from graph x gas viscosity (cP) / 0.018 cP (air viscosity).

Biological safety and extractable

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

Integrity test data

Pore size	Bubble point	Diffusion @ 20 °C / 10"	WIT @ 20 °C / 10"	Challenge Microorganism
0.20µm	≥ 1.0 bar	≤ 20 ml/min @ 0.8 bar	≤ 1.0 ml/min @ 2.6 bar	Brevundimonas Diminuta (ATCC 19146)

Bubble point and diffusion, tested with 60% IPA and 40% water.

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 126 °C for 60 minutes, 100 cycles @ 0.3 bar Delta-P
 up to 140 °C for 60 minutes, 40 cycles @ 0.3 bar Delta-P

Steam sterilization in autoclave: up to 126 °C for 60 minutes, 100 cycles
 up to 140 °C for 60 minutes, 40 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 any further information.

