PPAA SERIES

Main applications

Acids
Bases and alkaline solutions
Beers
Bottled water
Colloidal products
Cosmetics
Detergents
Etch baths
Fine chemicals
High viscosity fluids
Juices
Pharmaceuticals
Plating baths
Sea water
Soft drinks
Specialty chemicals
Ultrapure water

Characteristics

- Polypropylene nano fibres filter media
- Polypropylene hardware and filter media support
- High flowrate with low pressure drop
- High filter area
- Suitable for steam sterilisation or hot water sanitization
- 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

Specifications

SPECIFICATIONS

Grade	0.10	0.20	0.45	0.60	1.00	3.00	4.50	5.00	8.00	10.0	20.0	30.0
Filtration rating (µm)	0.1µm	0.2µm	0.45µm	0.6µm	1µm	3µm	4.5µm	5µm	8µm	10µm	20µm	30µm
Filtration efficiency	≥ 99.98%											
Filter media	Polypropylene nano fibres											
Filter media supports	Polypropylene											
End caps material	Polypropylene											
Cage material	Polypropylene											
Core material	Reinforced polypropylene											
OD	68mm											
Nominal length	5" to 40"											
EFA	5" ≥ 0.26 m^2 - 10" ≥ 0.52 m^2											
Max. working temperature	80 °C											
Max. Delta-P	5.2 bar @ 25 °C - 2.7 bar @ 80 °C											
Recommended replacement DP	2.4 bar @ 25 °C											

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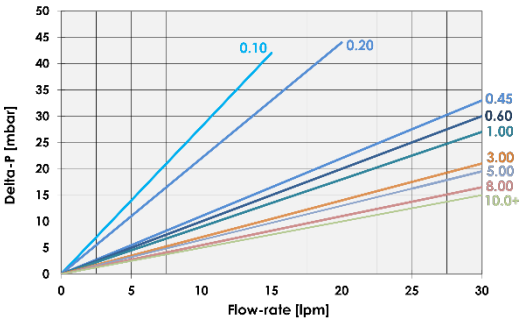
We reserve the right to change the technical data of this specification without notice.

Flow-rate vs. Delta-P information

Liquid: clean water (1 cP) @ 25 °C / 10" long cartridge.



For liquid with different viscosity than water, multiply the Delta-P by the liquid viscosity in cP.
Flow-rate valid for clean water, adjust the flow-rate according to the application.

Liquid filtration efficiency

Filtration efficiency for liquids defined with OSU-F2 test [1].

Removal rating	99.98% β=5000	99.9% β=1000	99.0% β=100
0.1µm	0.1µm	0.1µm	0.1µm
0.2µm	0.2µm	0.1µm	0.1µm
0.45µm	0.45µm	0.3µm	0.1µm
0.6µm	0.6µm	0.5µm	0.4µm
1µm	1µm	0.9µm	0.65µm
3µm	3µm	2.8µm	1.8µm
4.5µm	4.5µm	3.6µm	3.2µm
5µm	5µm	4.2µm	3.8µm
8µm	8µm	7.2µm	4.2µm
10µm	10µm	9.5µm	5.2µm
20µm	20µm	22µm	16µm
30µm	30m	27µm	20µm

1] Data lower than 1µm, are extrapolated values.

Regulatory compliance

The manufacturing materials comply with the requirements of:

- CFR21 Part 177.1655
- USP88 Class VI
- 1935/2004/CE for food products contact
- ASTM D6394 SP0112
- ISO 10993-Part 1, 5
- EN 285:2015 + A2:2009

Sterilisation

Steam sterilisation: 121 °C for 30 minutes; DP < 0.2 bar.
Daily sanitization: 90 °C during CIP phase with hot water; DP < 1.0 bar.

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.

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