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PLEATED MEMBRANE FILTER CARTRIDGE

POLIFLO II TP Microfiltration cartridges have been designed specifically for use in a wide range of aggressive gas and liquid processing applications. Its naturally hydrophobic PTFE membrane makes this cartridge an ideal choice for systems requiring excellent compatibility, reliability and a consistently high quality filtrate.

Product Features

POLIFLO II TP cartridges feature:

- A naturally hydrophobic PTFE membrane rated at 0.2μm in liquids and 0.01 μm in gases
- Polypropylene support
- Minimal fibre migration
- Wide chemical compatibility
- Validation by bacterial and aerosolised bacteriophage challenge

All cartridges are thermally bonded and adhesive free. Each unit is pre-flushed with ultra-pure water and integrity tested before final assembly*1

- Can be steam sterilised
- Sanitisable
- Meet current US FDA CFR Title 21 requirements
- Fully integrity testable by Water intrusion, Bubble Point or Diffusion Flow test*1
- All B grade modules are integrity tested during manufacture

Available in a wide range of grades & absolute rated pore sizes:

- > 0.1, 0.2, 0.45, 1.0 µm and solvent grade
- General Grade
- Biological Grade

Suitable for most sanitisation regimes including steaming, autoclaving, hot-water flush and most common sanitising agents.

Note: Steaming, autoclaving and hot water sanitisation must use the glass filled end-cap option)

Fluxa manufactures a comprehensive range of filter housings for **POLIFLO II TP** cartridges including the industrial series and filters for hygienic applications. Please consult our Sales Office for further details on the full range.

POLIFLO II TP FEATURES AND BENEFITS

- ➤ Fully Integrity Testable Water intrusion, Bubble Point and Diffusional Flow values provided for all biological grade pore sizes*1
- ➤ Validated*² removal rating for consistent and reliable performace
- Feature naturally hydrophobic PTFE membrane and polypropylene hardware
- > Thermal bonding process eliminates adhesives and ensures minimal extractables
- Identification mark on every cartridge
- Full product guide available
- *1 B grades only
- *2 See product guides for further details stating test method and rated efficiencies



TECHNICAL DATA

Dimensions

Outside Diameter: Standard 10" Junior 5"

71 mm 56 mm

Typical Surface area: 0.75 m² $0.25 \, \text{m}^2$

Length: See ordering guide

Sterilisation and Sanitisation*3

Steam or Autoclave: 136°C for 30 mins (100 cycles) 90°C for 30 mins (0.2 bar Δp max) *3 Applies to single open end cartridges only. For all steaming and hot water applications, the Glass Filled end cap option must be used.

Maximum Operating Conditions

Temperature: 80°C

Reccommended Maximum Differential Pressure:

5.0 Bar @ 20°C Forward Flow: 2.1 Bar @ 20°C Reverse Flow:

Product validation guide available on request. All Poliflo II TP cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

Materials of Construction

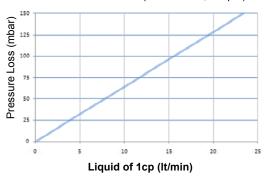
Filter Media:

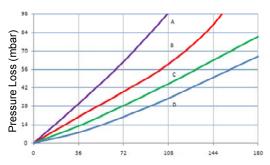
Polypropylene (PP) Media support: Cage, Core & End Caps: Polypropylene (PP)

INTEGRITY TEST SPECIFICATION

Micron Rating	Bubble Point in 60/40 IPA/Water	Diffusion Flow (cc/min/10") in 60/40 IPA/Water
0.10µm	≥ 1500mBar (22 psi)	≤ 11 @ 900mBar
0.22µm	≥ 1000mBar (14.5 psi)	≤ 11 @ 700mBar
0.45um	≥ 630mBar (9.1 psi)	≤ 10 @ 400mBar

Flow Rates For Water (10" Element, 0.2 µm)





Clean AirFlow Rates (It/min) A=0 barg B= 1 barg C= 2 barg D= 3 barg

ORDERING GUIDE

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B Grades

Media	Grade	Length	Micron Rating	End Fittings	Seal Material	Options
TP - PTFE / Polypropylene	B - Biological G - General	02 - 63 mm 05 - 122 09 - 250 20 - 497 30 - 744 40 - 991	001 - 0.10 μm 002 - 0.20 004 - 0.45* ⁴ 010 - 1.0* ⁴ 00P - Solvent Grade	0 - DOE*4 S - Code S 2 - Code 2 3 - Code 3 6 - Code 6*4 7 - Code 7 8 - Code 8 9 - Code 213 / Flat J - Junior*5	B - Buna E - EPDM F - FEP/Silicone (SOE Only) G - FEP/Viton S - Silicone T - PTFE V - Viton	G - Glass filled PP end cap* ⁶

Example: E-TP-B 20-002 3 F = PTFE media with polypropylene core, Biological Grade, 0.2µm, double length 20" long, Code 3 end fitting with FEP/Silicone seal.

*4 - TPG Only

 \star5 - Junior cartridge available in 2" & 5", 0.2 μ m, Code J, Single open ended only

*6 Not available on Junior Cartridges

INDUSTRIES AND APPLICATIONS

Pharmaceutical Fine Chemicals CO₂ lines, Sterile vent for storage and transfer tanks

Solvents filtration, polishing

Electronics Cosmetics

Polymers, Aggressive acids, Bases, Solvents, Ozonated DI Water

Photoresists, Acids, Etch Solutions

