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# FilterPOG

## *Pleated filter media made of paired fiberglass and polypropylene*



Filtration rate: 0.5 - 1.0 micron
Prefiltration and polishing of water, wine, beer and beverage.
Colloidal elimination by electrostatic adsorption.

FilterPOG cartridges are built with a positively charged borosilicate fiber filter media paired with a polypropylene filter media; this technology provides high mechanical resistance to the combined filter media, wich is free from fiber release.

The polypropylene filter media has a precise sieving by size, the filter media in glass fiber with a positive charge combines the retention by adsorption of colloids, organic material and bacteria with a negative electrical charge.

### Filtration rate

0,5 - 1,0 micron

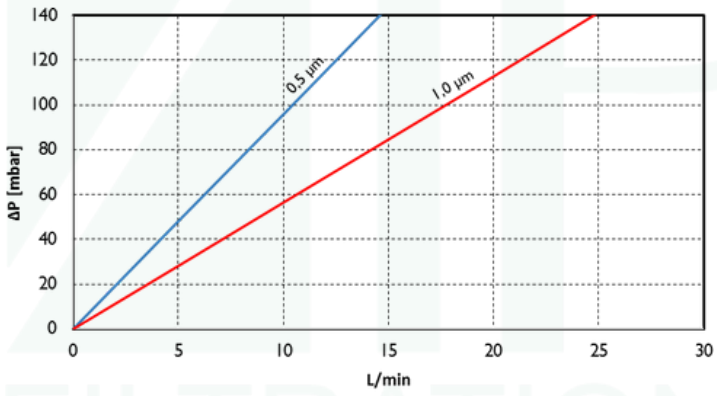
### Height

10 - 20 - 30 - 40 inches in standard module

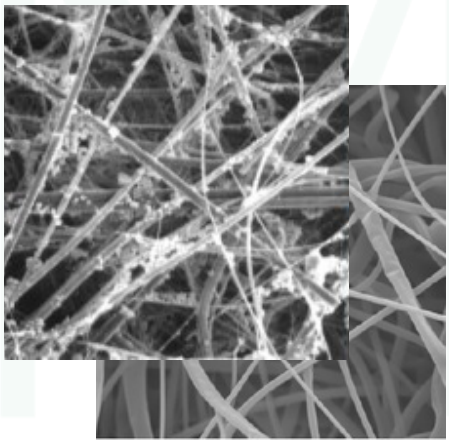
### Adapters

Available with the most common connectors (see information to order)

## FilterPOG performances




*Water flow rate at 20°C for a 10" cartridge*



*FilterPOG: electron microscope photograph of the fiberglass and the polypropylene filter media*

# SPECIFICATIONS

## Construction materials

| | |
|---|---|
| **Final filter media** | **Glass microfiber** |
| **Prefiltration filter media** | **Polypropylene** |
| Support and drainage layers | Polypropylene |
| Armor | Polypropylene |
| Insert | AISI316L |

## Operating parameters

| | |
|---|---|
| Maximum operating temperature | 70°C |
| Maximum ΔP in forward flow | 4,8 bar at 40°C |
| Maximum ΔP in reverse flow | 1,0 bar at 20°C |

## Cartridge dimensions

***Standard***

Lenght: 250, 500, 750, 1000 mm

External diameter: 70 mm

## Microbial Removal Efficiency

<99.9% (ASTM795) Absolute rated—Filter performance

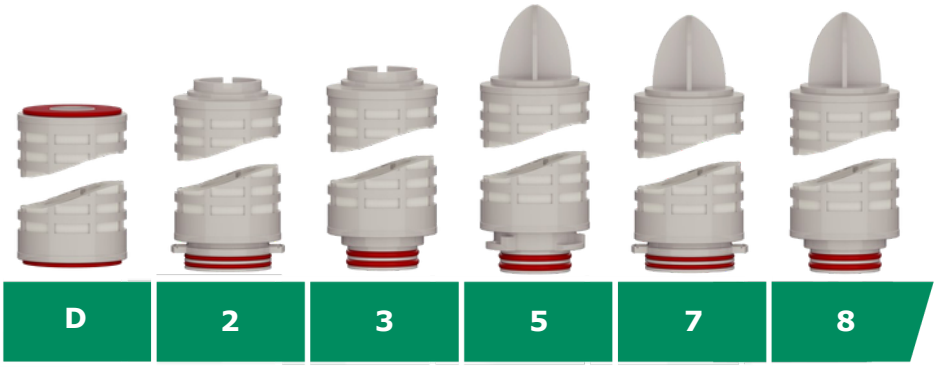
## Sterilization and sanification

| | |
|---|---|
| Steam | Up to 130°C for 30 minutes |
| Hot water | Up to 90°C for 30 minutes |

## Integrity Test values

*NON APPLICABLE TO NON MEMBRANE FILTERS*

# INFORMATION TO ORDER




| POG | 7 | 10 | 005 | S | I |
|---|---|---|---|---|---|
| Product identification | Adapters | Lenght | Filtration rate | Gaskets | Insert |
| | **D** = DOE (double opened end)<br>**2** = OR226/2 bayonets/ without fin<br>**3** = OR222/without fin<br>**5** = OR222/3 bayonets/with fin<br>**7** = OR226/2 bayonets/with fin<br>**8** = OR222/with fin | 10=10”<br>20=20”<br>30=30”<br>40=40” | 005 = 0,5 µm<br>010 = 1,0 µm | E= EPDM<br>S= Silicone<br>V= Viton ®<br>X= Other | I = with (*)<br>0 = without<br><br>(*) when filter has tobe sterilized by steam |

### *Quality standard*

- *Produced in clean room*
- *Conform to USA and CE rules*
- *Complete range of adapters*

### *Bio - safety standard*

*Cartridges pass toxicity tests of particles and fibers release.*
*They conform to USP requests for TOC, conductivity and bacterial endotoxins (determined with LAL test)*

### *Regulatory Compliance*

*Materials conform to requirements of CFR21 Part 177 from USP, IV Class - 121°C for plastic products and to the rule n. 1935/2004/CE for contact with food.*



**Document n° DSPOGGB002 issued in Italy 11/2026**

IPM reserves the right to modify any product feature for technical reasons and to offer customers the best technology.
For clarifications, please contact IPM.

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