

FilterPES

Polyethersulfone pleated membrane

Filtration rate: from 0.1 to 1.2 micron

Sterilization and microbiological stabilization of pharmaceutical, biological, chemical, solvents, perfumes, mouthwashes, water, wine, beer, beverages.

FilterPES cartridges are built with a polyethersulfone pleated membrane, have high mechanical, thermal and chemical resistance.

The asymmetrical structure of the membrane and the large filtering surface guarantee autonomy and long service life.

The polyethersulfone and polypropylene that make up the cartridge are chemically inert to proteins, colloids, aromas and color and do not alter the filtered fluid.

Filtration rate

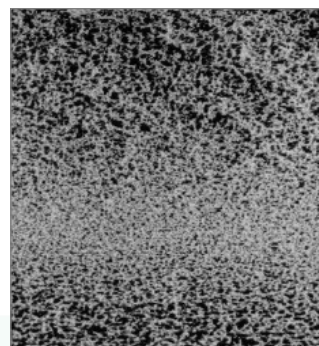
0,1 - 0,2 - 0,45 - 0,65 - 0,8 and 1,2 micron

Height

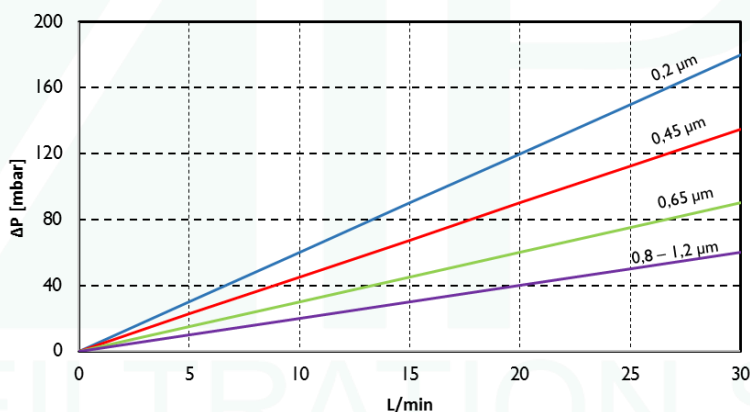
10 - 20 - 30 - 40 inches in standard module
5 inches in Junior module

Adapters

Available with the most common connectors (see ordering information)



FilterPES: electron microscope photograph



FilterPES performances

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

SPECIFICATIONS

Construction materials

Filter Membrane	Polyethersulfone
Support and drainage layers	Polypropylene
Cage	Polypropylene
Adapter insert	AISI316L

Operating parameters

Maximum operating temperature	70°C
Maximum ΔP in forward flow	5,0 bar at 24°C
Maximum ΔP in reverse flow	1,8 bar at 24°C

Cartridge dimensions

Junior	Length: 125 mm
	External diameter: 56 mm
Standard	Length: 250, 500, 750, 1000 mm
	External diameter: 70 mm

Microbial Removal Efficiency

0,1 - 0,2 µm	<i>Brevundimonas diminuta</i> TR>10 ⁷ /cm ²
0,45 µm	<i>Serratia marcescens</i> TR>10 ⁷ /cm ²
0,65 - 0,8 - 1,2 µm	<i>Saccaromices cerevisiae</i> secondo ASTM F838-15a

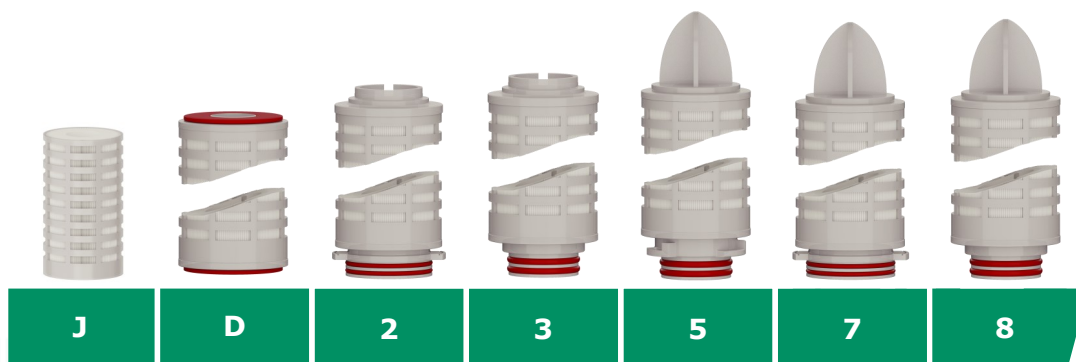
Sterilization and sanification

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

Integrity Test values

The specification values for the different filtration rates are shown in the instructions for use attached to the cartridge packaging

INFORMATION TO ORDER



PES	7	10	002	S	I	PH
Product identification	Adapters	Length	Filtration rate	Gaskets	Insert	Version
	D = DOE (double opened end) 2 = OR226/2 bayonets/ without fin 3 = OR222/without fin 5 = OR222/3 bayonets/with fin 7 = OR226/2 bayonets/with fin 8 = OR222/with fin J = JUNIOR	10=10" 20=20" 30=30" 40=40" 05=5.0"	001 = 0,1 µm 002 = 0,2 µm 004 = 0,45 µm 006 = 0,65 µm 008 = 0,8 µm 012 = 1,2 µm	E = EPDM S = Silicone V = FPM X = FEP	I = with (*) 0 = without (*) when filter has to be sterilized by steam	PH = Pharma version

Quality standard

- Produced in clean room
- Integrity check on each single module before shipment
- Conform to USA and CE rules
- Wide filtration rate range
- 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.

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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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