IPM FILTRATION SYSTEMS
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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

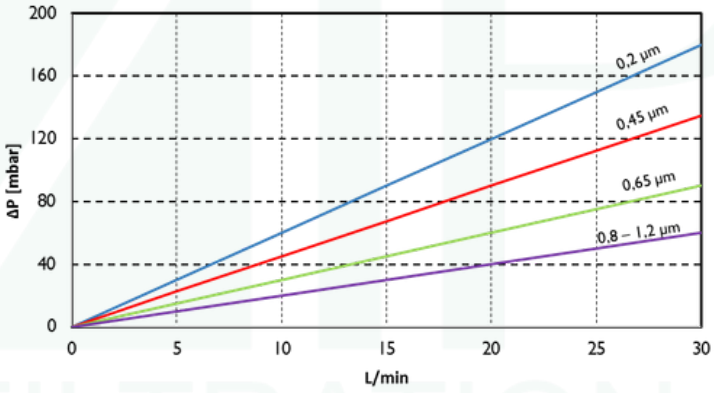
Height

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

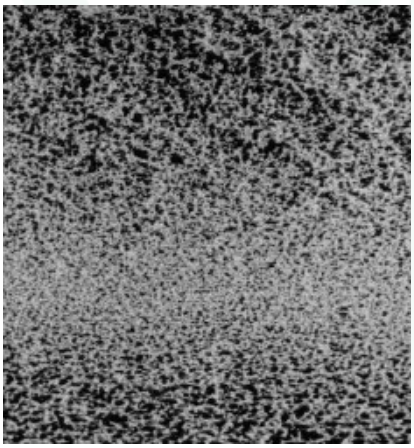
Adapters

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

FilterPES performances



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



FilterPES: electron microscope photograph

SPECIFICATIONS

Construction materials

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

Microbial Removal Efficiency

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

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

Sterilization and sanification

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

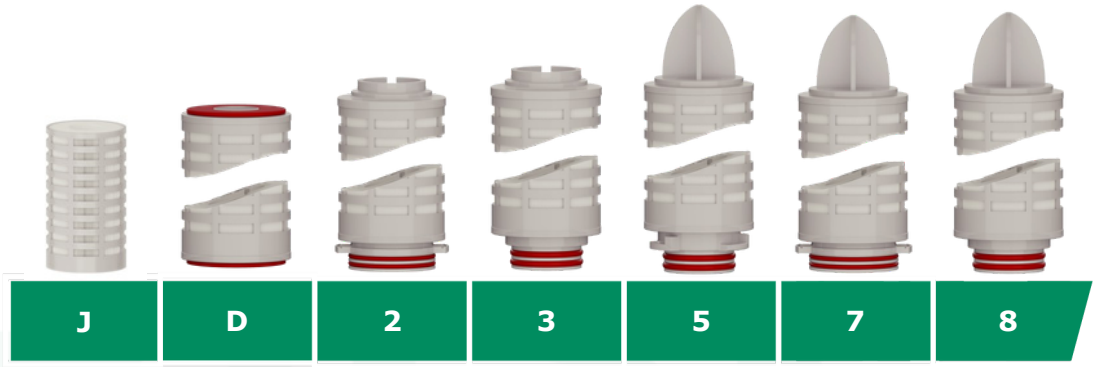
Cartridge dimensions

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

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



J	D	2	3	5	7	8

PES	7	10	002	S	I	PH
Product identification	Adapters	Lenght	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	10=10” 20=20” 30=30” 40=40”	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= Viton ® X= Other	I = with (*) 0 = without (*) when filter has to be sterilized by steam	PH = Pharma version
	J = JUNIOR	05=5,0”				

Quality standard

- *Produced in cleanroom*
- *Integrity check on each single module before shipmentt*
- *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.

Document n° DSPESGB002 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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