

PES Capsules

Pleated membrane in polyethersulfone

Filtration grade : from 0.1 to 1.2 micron

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

PRODUCT INFORMATION

PES capsules are built with a polypropilene casing and a Filter PES filtering module containing polyethersulfone membrane.

They have high mechanical, thermal and chemical resistance.

The asymmetrical structure of the membrane and the large filtering surface guarantees autonomy and long operating life.

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

Filtration grade

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

Length

5" - 10" - 20" - 30" inches with filtering module of Ø70mm
2,5" - 5" inches with filtering module of Ø56mm (Junior)

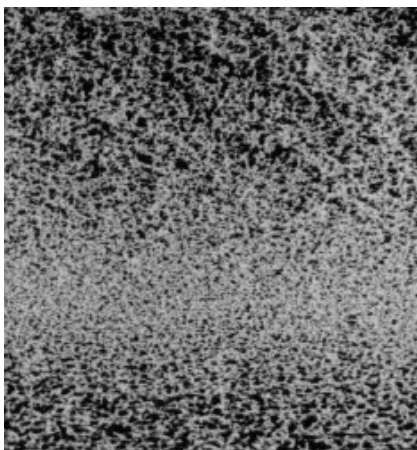
Connections

Clamp - Hosebarb - Threaded (check the information section to order)



PES Capsules:

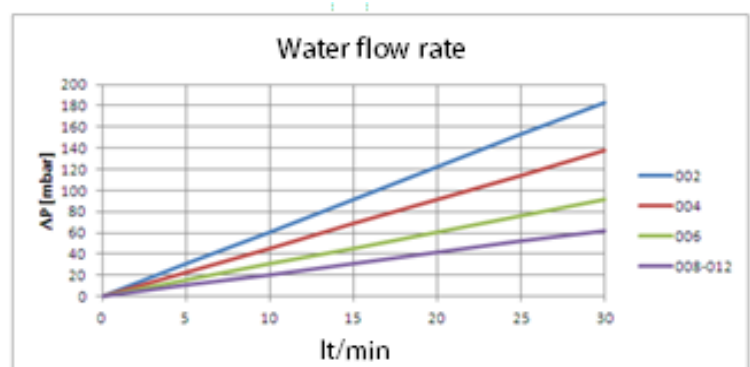
- ⇒ Produced in clean room
- ⇒ Integrity check on each single module before shipment.
- ⇒ Compliant with USA and CE rules
- ⇒ Wide range of filtration grade



PES Membrane:
Electron microscope photography

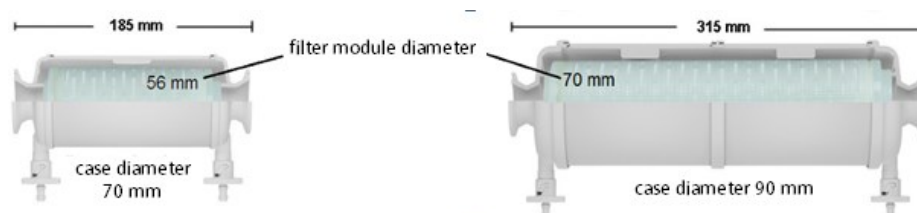
PES capsule performances

Water at 20°C per 10" Capsule



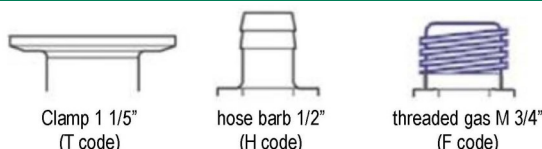
SPECIFICATIONS

Materials of construction		Microbiological retention per filtration grade	
Capsule casing	Polypropilene	0,1 - 0,2 µm	<i>Brevundimonas diminuta</i> TR>10 ⁷ /cm ²
Or vent drain valves	Silicone standard	0,45 µm	<i>Serratia marcescens</i> TR>10 ⁷ /cm ²
Filter Membrane	Polyetersulfone	0,65 - 0,8 - 1,2 µm	<i>Saccaromices cerevisiae</i> TR>10 ⁷ /cm ²
Support and drainage layers	Polypropilene		
Filter Membrane cage	Polypropilene		
Operatin Parameters		Sterilization and sanification	
Maximum operating temperature	50°C	In autoclave	Up to 130°C for 30 minutes
Maximum operating pressure	5,0 bar at 20°C	Hot water	Up to 50°C for 30 minutes
Dimensions of the filtering module		Integrity Test	
<i>Junior</i> (esternal Ø56mm) length: 2,5"- 5" inches		The specific test values for the different filtration rates are given in the instructions for use attached to the capsule packaging	
<i>Standard</i> (esternal Ø70mm) length: 5"- 10"- 20"- 30" inches			
Biological Safety and extractables		Regulatory compliance	
Capsules pass toxicity tests of particles and fibers release. They comply with USP requests for TOC, conductivity and bacterial endotoxins (determined with LAL test)		Materials comply with requirements of CFR21 Part 177 of USP, IV Class - 121°C for plastic products and Regulation 1935/2004/EC for contact with food products	



INFORMATION TO ORDER

Connections IN/OUT:



PES	T	10	002	S
Product information	Connections	Length	Filtration grade	Gaskets
	T = clamp 1 1/2" H = Hose barb 1/2" for junior F = Threaded / gas male 3/4" S = staubli hose barb A = threaded NPT 1/2" for junior B = threaded NPT 1/4" for	Module Ø70mm 0,5= 5" 10= 10" 20= 20" 30= 30" Module Ø56mm J5=5.0" J2=2,5"	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

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

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