

TEF Capsules

Pleated membrane in PTFE

Filtration grade: from 0.2 micron

Sterilization of compressed gases (air, nitrogen, CO₂) and tanks ventilation.

PRODUCT INFORMATION

TEF capsules are built with a polypropylene casing and a Filter TEF module containing PTFE membrane. They have high mechanical, thermal and chemical resistance.

The high number of pores of the membrane and the large filtering surface guarantee autonomy and long operating life.

Filtration grade

0,2 - 0,45 micron

Length

5" - 10" - 20" - 30" inches with filtering module of Ø 70mm
2,5" - 5" inches with filtering module of Ø 56mm (Junior)

Connections

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

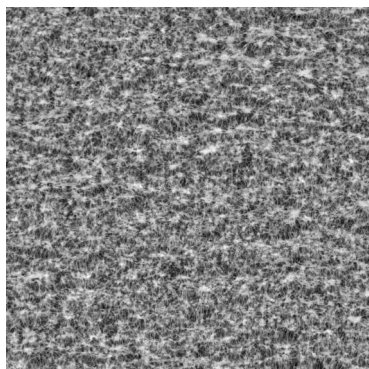


TEF Capsules:

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

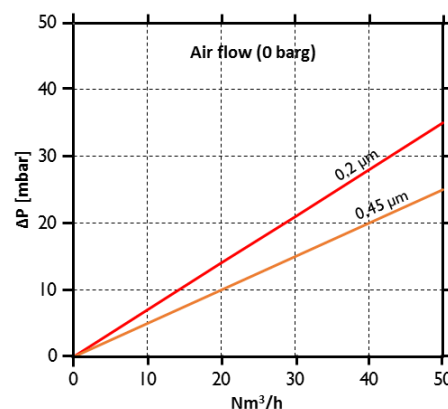
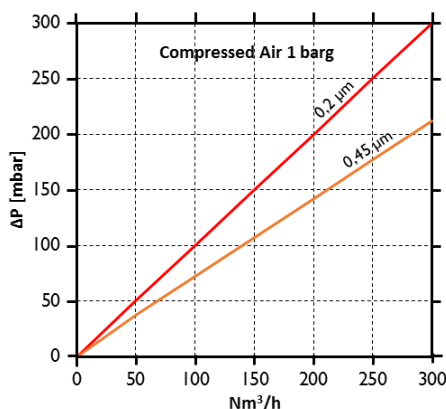
TEF capsule performances

Air at 20°C for 10" capsule



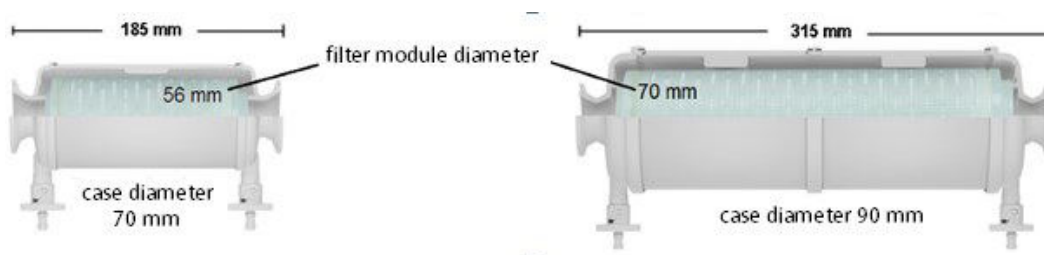
TEF membrane

Electron microscope photography



SPECIFICATIONS

Materials of construction		Microbiological retention per filtration grade	
Capsule casing	Polypropilene	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	PTFE		
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	
Junior (external Ø 56mm) 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	
Standard (external Ø 70mm) 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 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.	



INFORMATION TO ORDER

Connections IN/OUT:



Clamp 1 1/2"
(T code)



hose barb 1/2"
(H code)



threaded gas M 3/4"
(F code)

TEF	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 junior	Module Ø 70mm 0,5=5" 10= 10" 20= 20" 30 = 30" Module Ø 56mm J5=5,0" J2=2,5"	002 = 0,2 µm 004 = 0,45 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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