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FilterTEF

Pleated membrane in PTFE



Filtration rate: 0.2 - 0.45 micron
Sterilization of compressed gases (air, nitrogen, CO_2) and tanks ventilation.

FilterTEF cartridges are built with a new generation PTFE membrane and 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

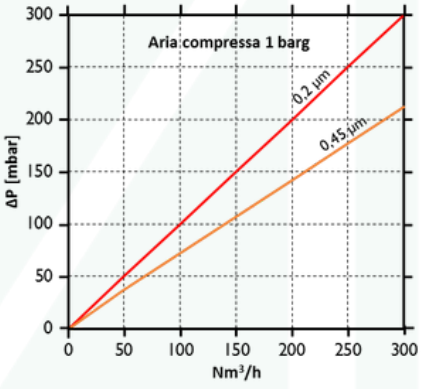
Height

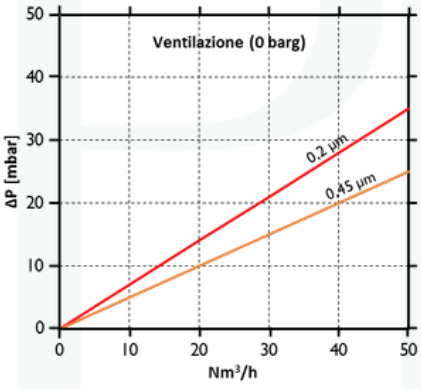
5 - 10 - 20 - 30 - 40 inches in standard configuration
2,5 - 5 inches in Junior configuration
1,5 inches in Mini configuration

Adapters

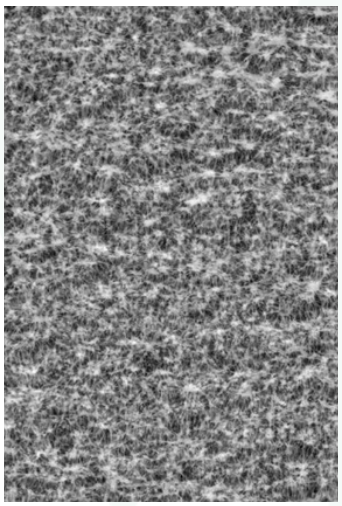
Available with the most common connectors (see information to order)

FilterTEF Performances





Air and water flow rate at 20°C for 10" cartridge



FilterTEF: electron microscope photography

SPECIFICATIONS

Construction Materials

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

Operating Parameters

Maximum operating temperature	70°C
Maximum ΔP in forward flow	5,5 bar at 24°C
Maximum ΔP in reverse flow	1,8 bar at 50°C

Cartridge dimensions

Junior	Lenght: 125 mm
	External diameter: 56 mm
Standard	Lenght: 250, 500, 750, 1000 mm
	External diameter: 70 mm
Mini	Lenght: 47 mm, ext. diameter 35 mm

Microbial Removal Efficiency

0,2 µm	*Brevundimonas diminuta* TR>10^7/cm^2
0,45 µm	*Serratia marcescens* TR>10^7/cm^2

Sterilization and sanification

Steam	Up to 130°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



J	D	2	3	5	7	8

TEF	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	05=5” 10=10” 20=20” 30=30” 40=40”	002 = 0,2 µm 004 = 0,45 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	02 = 2,5” 05 = 5,0” 0D = 1,5”				

Quality standard

- *Produced in cleanroom*
- *Integrity check on each single module before shipment*
- *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 request 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° DSTEFGB002 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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