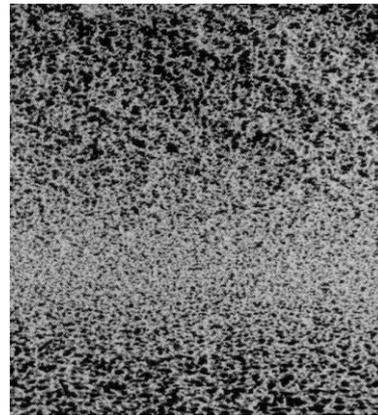


FilterPES

POLYETHERSULPHONE MEMBRANE FILTER CARTRIDGE



SEM CROSS SECTION VIEW

DESCRIPTION

The FILTERPES cartridges are manufactured using the unique polyethersulphone membrane and polypropylene supports.

FILTERPES cartridges are manufactured in clean room, they are 100% tested before shipment to assure safety and traceability and they are "in situ" testable, according the standard integrity test procedure. The product doesn't have any surfactants or binding materials in order to meet the requirement for not fibers releasing.

FILTERPES is available with the following micron ratings: 0.1 μm , 0.2 μm ; 0.45 μm , 0.65 μm , 0.8 μm and 1.2 μm with the standard length of 10"; 20"; 30"; 40" for classic configuration, and of 2,5 – 5 inch for Junior configuration. It may be sterilized by steam or in autoclave.

The polyethersulphone and the polypropylene that are the only 2 materials into the cartridges have low protein binding in order to have safety during the process filtration.

The construction materials of this cartridge, polyethersulfone and polypropylene, are biologically inerts and have low protein-binding characteristics, avoiding accidental alterations of filtrate.

FilterPES greatest strength derives from the use of a unique mirrored Polyethersulphone membrane, with an asymmetric pore size distribution. This membrane produces a cartridge with exceptionally high flow rates, long on-stream life consistent removal of microorganisms and inorganic particulates.

All components meet USP Class VI Plastic Biosafety criteria and requirements of 1935/2004/CE regulation on materials and articles intended to come into contact with food

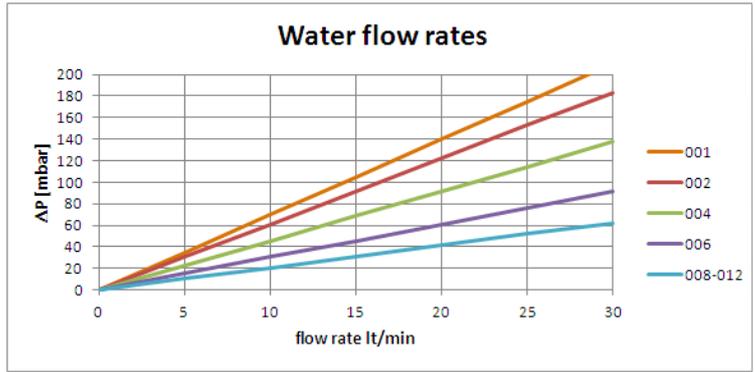


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FILTERPES

Polyethersulphone membrane filter cartridge
PERFORMANCE



Flow rates with water, for 10" standard, with in-line housing

SPECIFICATION

Material of construction:

Membrane: polyethersulphone
 Supports layers: polypropylene
 hardware, end caps, guards: polypropylene

Filtration rating

002 = bacteria retention (Brevundimonas diminuta TR>10⁷/cm²/ml)
 004 = bacteria retention (Serratia marcescens TR>10⁷/cm²/ml)
 006 & sup. = particulate and bacteria retention on 0,65 µm membrane
 ASTM F838-05

Nominal Dimensions

Length: 10" (250 mm); 20" (500 mm); 30" (750 mm); 40" 1000 mm
 outside diameter: 70 mm (2.75")

Length Junior series: 5" (125 mm) and 2,5" (62 mm)
 Outside Diameter Junior series: 54 mm

Cartridges configurations

see the table ORDER INFORMATION below

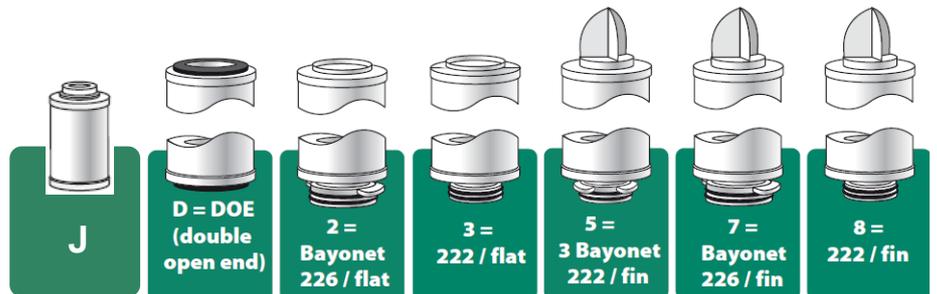
Operation conditions

Maximum differential P in forward flow direction (from outside to inside of the cartridge) 5.5 bar at 24°C
 1.8 bar in backwash

Sterilization

Cartridges may be steam sterilized multiple cycles at 130°C (266°F). With appropriate SS insert (sterilizing procedure as per current USP)

ORDER INFORMATION



PES	7	30	002	S	I	PH
	CARTRIDGE TYPE	LENGTH	FILTRATION RATING	GASKETS O-RINGS	INSERT	VERSION
Product identification:	D = DOE (double open end) 2 = bayonet 2.226/flat 3 = 2.222/flat 5 = 3 bayonet 2.222/fin 7 = bayonet 2.226/fin 8 = 2.222/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	B = Buna N E = EPR S = Silicone V = Viton X = other VITON® is a registered trade name of E.I. duPont de Nemours & Co. Inc	I = with SS insert (*) 0 = no SS insert (*) When filter has to be sterilized by steam	PH= Pharma version
PES	J = Junior Cartridge	02 = 2,5" 05 = 5"				

FilterPES is a product by:



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