



# OPTIPOR

## ASYMMETRIC PES MEMBRANE FILTER CARTRIDGE

### Sterile Liquid Filter –Water filtration

This filter cartridge are specially designed to provide a reliable sterilizing solution at an economical cost. Hydrophilic PES membrane cartridges require no pre-wetting and are ready to use. In addition, these filters provide excellent performance in pharmaceutical applications.



#### FEATURES AND BENEFITS

- Low diffusion flow (Integrity Test Data)
- High surface area provides excellent flow rates and extended service life while maintaining high bacteria removal efficiency
- Low protein binding
- Typical applications: Water filtration, Antibiotics, LVP&SVP, Large Batch Solutions, Cleaning & Disinfecting liquids

#### QUALITY AND BIOLOGICAL SAFETY

- Manufactured under a quality management system certified to ISO 9001:2000
- All components materials meets the requirement for food contact detailed in European Regulation (EC) N°1935/2004 and (EU) N° 10/2011
- Bacterial Endotoxins <0.25 EU/ml
- Extractables <30mg per 10"

#### TECHNICAL SPECIFICATIONS

##### CARTRIDGE DIMENSIONES

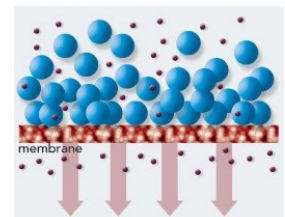
- |                   |           |            |           |
|-------------------|-----------|------------|-----------|
| • Outer diameter: | 69mm      |            |           |
| • Length:         | 5"/127mm  | 10"/ 254mm | 20"/508mm |
|                   | 30"/762mm | 40"/1016mm |           |

##### MATERIALS OF CONSTRUCTION

- |                             |   |
|-----------------------------|---|
| • Filter media:             | Asymmetric Polyethersulphone (PES) membrane |
| • Support:                  | Polypropylene                               |
| • Core/Cage/End caps:       | Polypropylene                               |
| • End caps insert :         | PBT   |
| • Standard O' ring/gaskets: | Silicone, EPDM, Viton, PFA/Viton            |

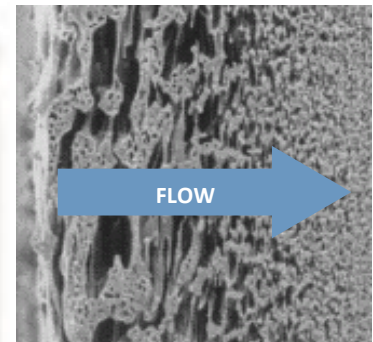
##### EFFECTIVE FILTRATION AREA (EFA)

- 0.22 micron - 0.58m<sup>2</sup> per 10" / 254mm



## OPERATING CONDITIONS

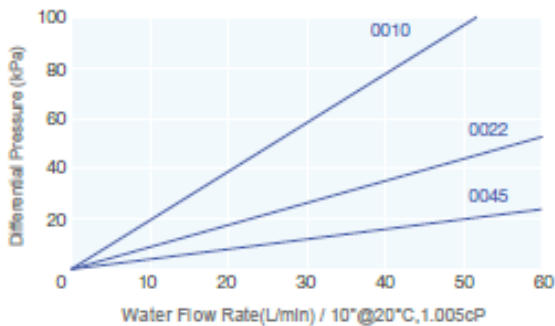
Maximum Temperature	80°C
Maximum differential Pressure	6.9 bar / 25°C 2.4 bar / 80°C
Steaming Sterilize (Autoclave)	130°C/30 min
Steam in place	135°C/30 min



## FLOW RATE CHARACTERISTICS

Test criteria: Single length 10"/254mm cartridge, Water @ 20°C

Flow Rate Characteristics



## INTEGRITY TESTING PARAMETERS

	0.22µm	0.45µm
Diffusion Flow (10" Cartridge)	<25ml/min at 2'75bar (40 psi)	<25ml/min at 1'5bar (22psi)
Bubble Point	≥ 3.2 bar (46 psi) air	≥ 2.0 bar (29psi) air

## ORDERING INFORMATION

F	PESHR						
		LENGTH	MICRON	END CAP (inf)	END CAP (sup)	GASKETS	END CAP INSERT
		5- 5"/127mm	0.22 - 0.22µm	B - DOE with Gaskets	B - DOE with Gaskets	S - Silicone	(Blank) - No insert
		10 - 10"/254mm	0.45 - 0.45µm	C - 226	F - Flat	E - EPDM	P - PBT
		20 - 20"/508mm		D - 222	S - Spear	V-Viton	S - St. St.
		30 - 30"/762mm		J - Junior 214		P-PFA/Viton	
		40 - 40"/1016mm		K - Junior 216			

DISTRIBUIDO POR:



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