

This filter cartridge features a unique single-layer asymmetric hydrophilic polyethersulfone (PES) membrane characterized by excellent throughput, high dirt holding, durability and designed for use in various applications. High flow rates, when compared to other sterilizing grade filter cartridges, assure an economical design.

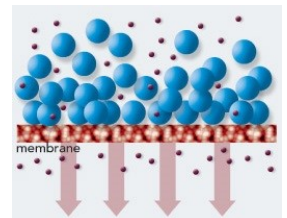


### FEATURES AND BENEFITS

- Highly asymmetric PES membrane provides a high dirt holding capacity and longer service life
- High surface area design provides excellent flow rates
- Available in absolute ratings from 0.1 to 1.2 microns for a range of precise size removal.
- The filter is individually integrity Tested prior to factory dispatch.

### 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

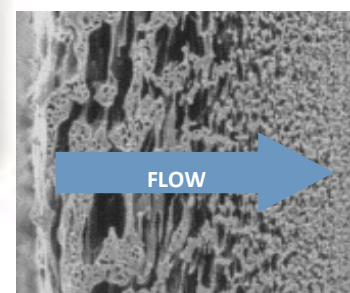
- Filter media: Asymmetric Polyethersulphone (PES) membrane
- Support: Polypropylene
- Core/Cage/End caps: Polypropylene
- End caps insert (optional): 316L stainless steel or PBT
- Standard O' ring/gaskets: Silicone, EPDM, Viton

#### EFFECTIVE FILTRATION AREA (EFA)

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

### OPERATING CONDITIONS

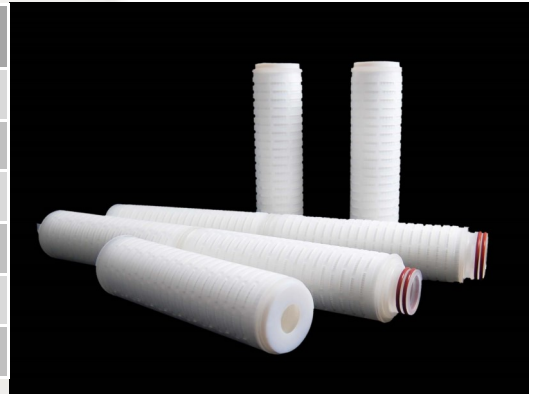
Maximum Temperature	80°C
Maximum differential Pressure	6.9 bar / 25°C 2.4 bar / 80°C
Steaming Sterilize (Autoclave)	130°C/30 min
Hot Water Sterilize	85°C/30 min



## FLOW RATE CHARACTERISTICS

Test criteria: Single length 10"/254mm cartridge, 0.2µm, Water @ 20°C

FLOW RATE (LPM)	DIFFERENTIAL PRESSURE (Kpa)
10	9.2
20	18.5
30	27.7
40	37.0
50	46.2
60	55.5



## MICROBIOLOGICAL CONTROL

Log reduction values are calculated using the following formula:  $LRV = \log_{10} \left( \frac{\text{total number of organisms entering the filter}}{\text{total number of organisms exiting the filter}} \right)$

TYPICAL LOG REDUCTION VALUE (LRV)			
	B. Diminuta	Lactobacillus Brevis	Sacharomyces Cerevisiae
0.1µm	> 7/cm <sup>2</sup>	N/A	N/A
0.2µm	> 7/cm <sup>2</sup>	N/A	N/A
0.45µm	N/A	> 7/cm <sup>2</sup>	N/A
0.65µm	N/A	> 4/cm <sup>2</sup>	> 7/cm <sup>2</sup>
1.2µm	N/A	N/A	> 7/cm <sup>2</sup>

INTEGRITY TESTING PARAMETERS			
	0.22µm	0.45µm	0.65µm
Air Diffusion at 20 °C -10" Cartridge-	<30ml/min @ 2.5 bar	<28ml/min @ 1.6 bar	<20ml/min @ 1.0 bar
Water Bubble Point at 20 °C	≥ 3.4 bar (49 psi), air	≥ 2.2 bar (31 psi), air	≥ 1.2 bar (17 psi), air

## ORDERING INFORMATION

F	PES						
LENGTH	MICRON	END CAP (inf)	END CAP (sup)	GASKETS	END CAP INSERT		
5- 5"/127mm	0.10 - 0.1µm	B - DOE with Gaskets	B - DOE with Gaskets	S - Silicone	(Blank) - No insert		
10 - 10"/254mm	0.22 - 0.22µm	C - 226	F - Flat	E - EPDM	P - PBT		
20 - 20"/508mm	0.45 - 0.45µm	D - 222	S - Spear		S - St. St.		
30 - 30"/762mm	0.65 - 0.65µm	E - 222 Sartorius (3 tabs)			V-Viton		
40 - 40"/1016mm	0.80 - 0.80µm	J - Junior 214					
	01.2 - 1.2µm	K - Junior 216					

DISTRIBUIDO POR:



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