

### Masterfilter PESE series

The Masterfilter *OptiPes* PESE series filter cartridges feature a unique single layer, asymmetric hydrophilic polyether sulphone membrane. This membrane is characterized by excellent throughput and higher durability in many applications such as biological filtration and beverage filtration. Higher flow-rates than any other sterilizing grade filter cartridge offers, so Masterfilter PESE filter assures thereby the most economic design of filtration systems.

### Applications

- Processed water for food and beverage and microelectronics applications
- Aqueous solutions
- Point-of-use for DI water

### Features and Benefits

- High dirt holding capacity
- Excellent flow rates and longer service life
- 100 % integrity tested
- Low adsorption
- Easy wetting PESE membrane
- Repeatedly integrity testable

### Materials of Construction

- Membrane: Highly asymmetric polyether sulfone
- Support layers: Polypropylene
- Inner core: Polypropylene
- Outer cage: Polypropylene
- End caps: Polypropylene
- O-rings: Silicone, EPDM, Viton

### Operating Parameters

- Max. differential pressure: 4.0 bar at 21 °C, 2.4 bar at 80 °C
- Hot Water sanitisation: 80 °C
- Filtration area 10" module: 0.58 m<sup>2</sup>



### Quality Assurance

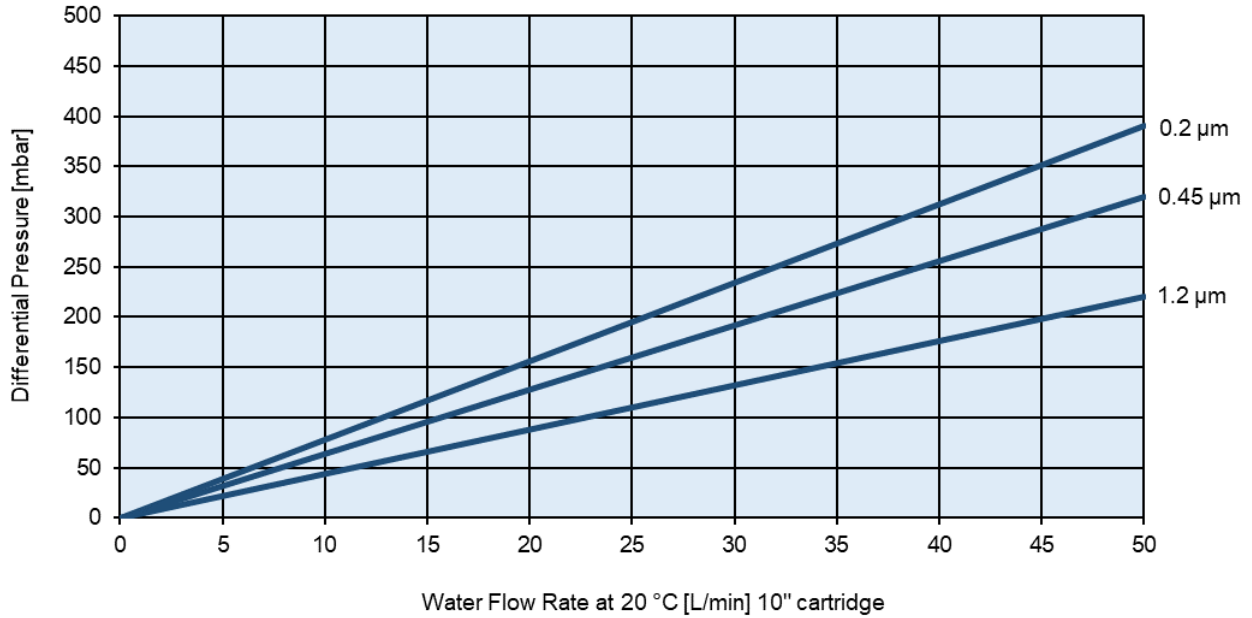
- Manufactured under ISO 9001:2015 certified quality management system and cGMP
- Cartridges is marked with unique serial number for identification and traceability
- All components meet the requirements of FDA 21 CFR and EU No. 1935/2004 and EU10/2011
- Comply with FDA 21CFR177-182

### Biological Standards

- Component materials toxicity meets the USP <88> tests for Class VI-121 °C and ISO 10993 equivalents
- Bacterial Endotoxin testing as per LAL test determined by USP <88> for plastic class IV-121 °C ≤ 0.25 EU/mL
- No fiber releasing, comply with 21CFR, 210.3(b)(5)(6) and 211.72
- Comply with the relevant requirements of EU 1935/2004 and EU directive 2002/72/EC

## Flow Rate Characteristics

Flow Rate Characteristics PESE



## Part Numbers

PESE 020 - 30 HSF - S

Code	Removal rating [µm]
010	0.1
020	0.2
045	0.45
065	0.65
080	0.8
120	1.2

Code	Length	
	[mm]	[inch]
10	254	10
20	508	20
30	762	30
40	1016	40

Code	End caps
STC	Sartorius Code 28
HTF	222 O-ring/fin (Code 8)
HSF	226 O-ring/fin (Code 7)
HTC	222 O-ring/flat (Code 3)

Code	O-Ring
S	Silicone
E	EPDM
V	Viton

e.g. part number: PESE-020-30-HSF-S

PESE filter, 0.2 µm, 30" Length, End caps Code 7, Silicone O-rings