

# PESE Series

## Polyethersulfone cartridges



### Masterfilter PESE series

Masterfilter PESE series filter cartridges feature a unique single layer, asymmetric hydrophilic polyethersulphone 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 & beverage and micro-electronics applications
- Aqueous solutions
- Point-of-use for DI water

### Features and Benefits

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

### Materials of construction

- Membrane: Highly asymmetric polyethersulfone
- Support Layers: Polypropylene
- Inner core: Polypropylene
- Outer cage: Polypropylene
- End caps: Polypropylene
- O-rings : Silicone, EPDM, Viton

### Operating parameters

- Maximum differential pressure:  
4,0 bar @ 21°C | 2,4 bar @ 80°C
- Hot Water sanitisation: 80°C
- Filtration Area 10" Module : 0,58m<sup>2</sup>

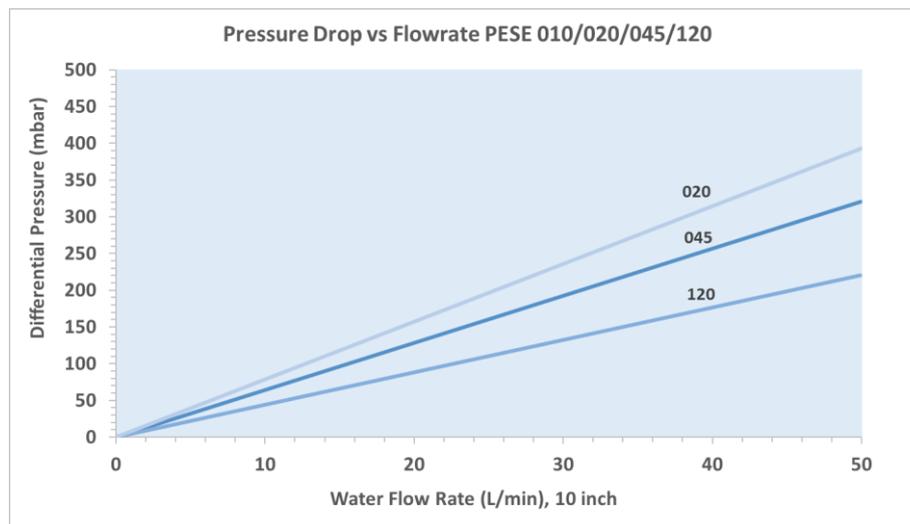
### Quality assurance

- 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



### Part Numbers

PESE **020** - **30** - **HSF** - **5**

Code	Removal rating µm
010	0,1
020	0,2
045	0,45
065	0,65
080	0,80
120	1,20

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)
HSC	226 O-ring/flat (Code 2)

Code	O-rings
S	Silicone
E	EPDM
V	Viton

e.g. part number: PESE020-30-HSF-S

Polyethersulfone membrane filter cartridge 0.2 µm asymmetrical, 30" length, Code 7 end caps, silicone O-ring