

# PESS Series Polyethersulfone cartridges

Masterfilter PESS filter cartridges manufactured with hydrophilic polyethersulfone symmetric membranes are designed for secure and reliable removal of spoilage microorganisms. Due to high efficiency polyethersulfone PESS membranes ensure excellent service life and filtration results. It is an excellent selection as final filter prior to bottling or storage of beverages and liquid food.

## Features and Benefits

- Broad chemical compatibility
- 100 % integrity tested
- Low adsorption
- Easy wetting PESS membrane
- Repeatedly integrity testable
- Removal ratings from 0,2 to 1,2 µm



## Applications

- Bottled water
- Juices
- Process water
- Wine

## Effective Filtration Area

0,6 m<sup>2</sup> per 10" (250 mm)

## Food and Biological Safety

Comply with the relevant requirements of EU 1935/2004 and EU directive 10/2011

## Materials of construction

- Membrane: Polyethersulfone
- Support layer: Polypropylene
- Inner core: Polypropylene
- Outer cage: Polypropylene
- End caps: Polypropylene
- End cap insert: Stainless 304
- O-Rings: EPDM/Silicone

## Operating Characteristics

Maximum Differential Pressure	4bar (20°C) 2,4bar (70°C)
Max. Temp.	90°C
In situ steam Sterilization	121°C 20min
Autoclaving	130°C 30min

## Rating

Code	Removal rating micron
010	0,10
020	0,20
045	0,45
065	0,65
080	0,80
120	1,20

## Available sizes

Code	length	
	mm	inch
10	254	10
20	508	20
30	762	30
40	1016	20

## Connections

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

## O-Ring

Code	O-Rings
S	Silicone
E	EPDM