

FILTER CARTRIDGES OVERVIEW



Filter Cartridges

PES SERIES PLEATED FILTER CARTRIDGE (PESMC)



Product Description

Excellent Interception Capacity

PESMC series pleated filter cartridge is made of hydrophilic asymmetric gradient aperture PES filter membrane and PP components through advanced hot melt sealing technology under the associated controlled clean environment, without any adhesives or surfactants. PES Pleated filter cartridge has high resistance of repeated steam sterilization and hot water disinfection.

It features large filtration area, high flux, high dirt holding resistance, low protein binding, excellent intercepting capacity, etc. It can also effectively remove particles, impurities, bacteria and other pollutants in liquid or gas.

PESMC series is suitable for filtration of ultra-pure water, weak acid, weak alkali and weak oxidizing solvent, etc.

Application



Features

- Extensive chemical compatibility
- High flux, high dirt load, low pressure drop, low protein binding, excellent intercepting capacity
- Passed the bacterial challenge test, LRV>7.
- The limitations of integrity were correlated with the results of bacterial challenge testing

Technical Data

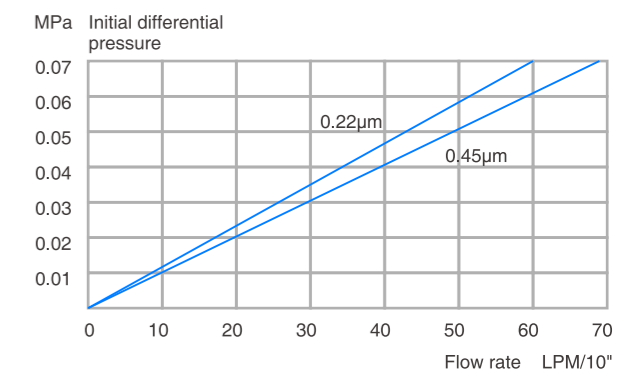
Product code	Retention ratings (µm)	Filter area (m²)	Length (inch)	Diameter (mm)	Max. differential pressure	Max. operating temp (°C)
PESMC	0.04, 0.1, 0.22, 0.45, 0.65, 0.8, 1	0.65	10" 20" 30" 40"	2.75"- 69	Positive : 0.4MPa / 25°C Negative : 0.2MPa / 25°C	85

Minimum bubble point of integrity test data (IPA / Water)	Diffusional flow of integrity test data	Sterilization method (°C / 30min)
Single Layer: 0.1µm: ≥ 0.38MPa 0.22µm: ≥ 0.32MPa 0.45µm: ≥ 0.24MPa Double Layers: (0.1+0.1)µm: ≥ 0.40MPa (0.22+0.22)µm: ≥ 0.36MPa	(0.22+0.22)µm: ≤30 ml/min@2.8 bar	121°C

Structural Material

Filter medium	PES
Support	PP
Core/ Cage	PP
End cap	PP
Connection	DOE, 222-Flat, 226-Flat, 222-Fin, 226-Fin, 222-Fin(304BI), 226-Fin(304BI)
Seal rings options	BUNA, EPDM, Silicon, Viton

Flow Rate Characteristics



Connector/End Cap Configuration



Ordering Information

Series	Length	Retention Ratings	End Fitting Options	Seal Rings	Supporting Cores
PPMC: PP series pleated filter cartridge	05: 05 inch	0004: 0.04µm	A: DOE	B: NBR/BUNA-N	C: with core
O-PTMC: OPTFE series pleated filter cartridge	10: 10 inch	0010: 0.1µm	B: 222 flat	E: EPDM	N: no core
I-PTMC: IPTFE series pleated filter cartridge	20: 20 inch	0022: 0.22µm	C: 222 fin	FV/FS: FEP+V/FEP+S	
ATMC: PFA series pleated filter cartridge	30: 30 inch	0045: 0.45µm	D: 226 flat	S: Silicone	
PESMC: PES series pleated filter cartridge	40: 40 inch	0100: 01µm	E: 226 fin	V:Viton	
NY66MC: Nylon 66 series pleated filter cartridge		0300: 03µm			
GFMC: Glass Fiber series pleated filter cartridge		0500: 05µm			
83HF: PP, PTFE, PES series pleated filter cartridge		1000: 10µm			
130SHF: PP, PTFE, PES series pleated filter cartridge					

Web: <https://filtercartridgetech.com>