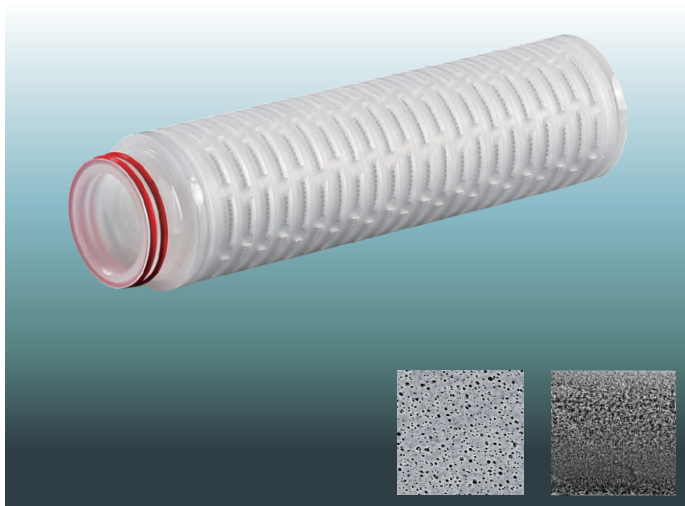




PAA series polyethersulfone (PES) Pleated Filter Cartridges are designed to provide greater bacteria and particle removal at high flow rates and low pressure drops in a wide range of biological fluids. It offers the greatest assurance of filtration performance, stability, and service life. All components of the PAA filter cartridges comply with FDA regulations for food contact use.

Features

- Durable PES and PP components
- Highly porous asymmetric membrane
- Excellent chemical compatibility
- Low extractables
- 100% integrity tested

Applications

- Large infusion (LVP), small injection (SVP), eye drops sterilization filtration
- Sterilization filtration of biological product
- Sterilization filtration of antibiotic aqueous solution
- Cleaning fluid and disinfectant sterilizing filtration

Dimension

Diameter	69 mm
Length	5", 10", 20", 30", 40"

Material of Constructions

Media	PES
Support	PP
Cage/Core/End	PP
Connection Adaptor	SS Insert, PSU Insert
O-Ring	Silicone, EPDM, FKM

Performance

Operating Conditions

Max. Operating Temperature	80°C
Max. Operating D	4 Bar@20°C, 2.4 Bar@80°C

Sterilization

Autoclave Sterilization	121°C, 60 Min
SIP	135°C, 30 Min, 20 cycles

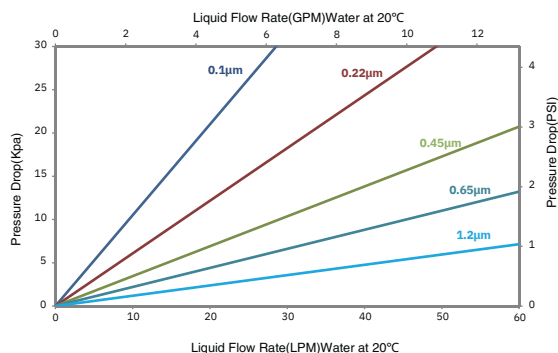
Filtration Area

0.65 m² per 10" Filter

Extractables

10" Filter Cartridges	< 20mg
-----------------------	--------

PAA series Flow rate



Quality

- Validated with B. diminuta (ATCC 191463) at 107CFU/cm² (0.22µm)
- Each membrane filter element has been individually tested for integrity
- Individual element is tracked by serial number
- Manufactured according to ISO 9001:2015 certified quality management system
- Meets USP Biological Reactivity Test requirements of the current USP <88> for plastic class VI-121°C

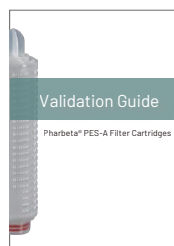
Effluent quality

- Non-fiber releasing
- Non-pyrogenic per USP Bacterial Endotoxins (<0.25EU/mL)
- Meets TOC and water conductivity per USP Purified Water, pH per USP Sterile Purified Water.

Integrity Test

Micron	Bubble Point $\geq$ (Water)	Diffusion Flow $\leq$ (10"Ø69mm)
0.1µm	4.8Bar	25ml/min@4.475Bar
0.22µm	3.2Bar	25ml/min@2.76Bar
0.45µm	2.1Bar	25ml/min@1.70Bar
0.65µm	1.32Bar	12ml/min@1.1Bar

Validation Guide



Ordering Information

PAA	0022	R	10	S	S
Removal Rating	End Cap Type		Length	Seal Material	Core
0010=0.1µm	F = DOE	K = 222 Extended (SS Insert) / Fin	5 = 5"	S = Silicone	P = PP Core
0022=0.22µm	M = 222 / Flat	R = 226 (SS Insert) / Fin	10 = 10"	E = EPDM	S = SS Core
0045=0.45µm	T = 226 / Flat	V = 226 (SS Insert) / Flat	20 = 20"	B = NBR	
0065=0.65µm	P = 222 / Fin	J = 222 Extended (SS Insert) / Flat	30 = 30"	V = FKM	
0120=1.2µm	Q = 226 / Fin	G = 226 (PSU Insert) / Fin	40 = 40"	F = E-FKM	
	H = 213 / Flat	I = 226 (PSU Insert) / Flat			
	E = 222 Extended / Fin	X = 222 (SS Insert) / Spear Fin			
	N = 222 Extended / Flat	Y = 226 Spear Fin			
	W = 222 Spear Fin	Z = 226 (SS Insert) / Spear Fin			

