

MicroVantage™ MAS-P Series

Pharmaceutical Grade Double Layered Polyethersulfone Membrane Filter Cartridge



- Absolute retention ratings - 0.1, 0.2 and 0.45 microns
- Double layered polyethersulfone to ensure performance and integrity in critical applications
- MAS-P grade cartridges are fully integrity tested, flushed and dried to ensure reliable performance in critical applications.
- Rigid, molded cage protects pleated media and strengthens structural stability
- Manufactured in state-of-the-art clean room environment for high purity.
- Complies with Food & Drug Administration's CFR criteria for food & beverage contact.
- Meets USP Class VI Biological Test for plastics.
- Available in standard lengths and end cap configurations to fit most filter housings

Specifications & Operating Parameters

Pore Sizes 0.1. 0.2 0.45 microns absolute retention

Nominal Lengths 9.75" (24.7 cm), 10" (25.4 cm), 20" (50.8 cm), 30" (76.2 cm), 40" (101.6 cm)

Outside Diameter 2.67" (6.78 cm)

Inside Diameter 1.0" (2.54 cm)

Media Surface Area 7.2 sq.ft. (0.67 m²) per 10 inches filter length

Gaskets/O-rings

Silicone, Buna N, EPR, Viton, Teflon Encapsulated Viton (o-rings only)

Materials of Construction

Filter Media:	Double Layered Polyethersulfone Membrane
Cage & Core	Polypropylene
End caps:	Polypropylene

Maximum Operating Temperature: 176F (80C)

Recommended Change-out Differential Pressure 35 psid (2.4 bar)

Maximum Differential (Collapse) Pressure

75 psid @ 70F (5.2 bar @21C)

40 psid @176F (2.8 bar @ 80C)

Sanitization and Sterilization

Hot water at 175F (80C) at 5 psid for 30 minutes

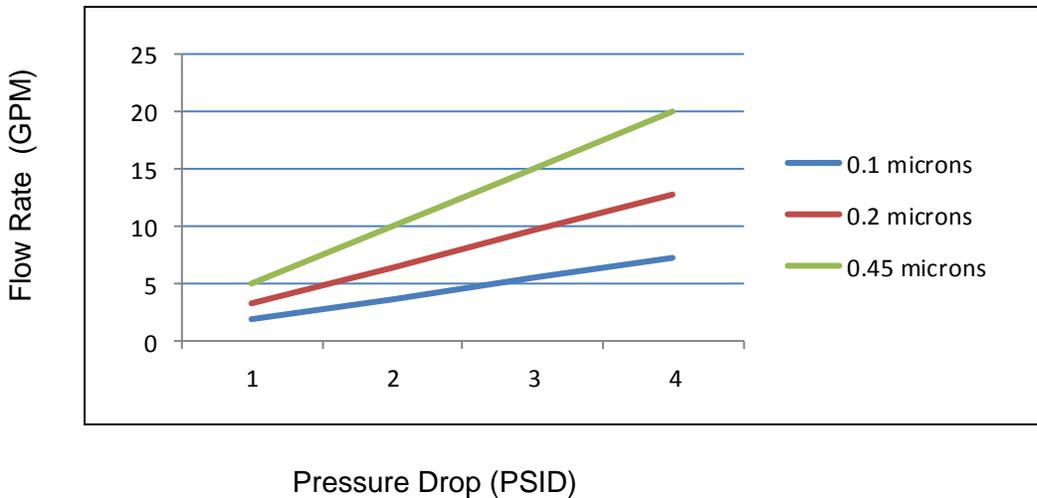
In-line steam at 257F (125C) @ 1 psid (0.07 bar) for 30 minutes

Autoclavable at 257F (125C) for 30 minutes

FDA and USP Compliance

All materials comply with the requirements of Food and Drug Administration Title 21 of The Code of Federal Regulations 174.5, 177.1520 and 177.1630. All components meet current USP Class VI biological tests for plastics

Flow vs. Pressure Drop (Per 10" length water wetted membrane)



Integrity Testing

Pore Size	Air Diffusion Rate
0.1 μm	<15 cc/min@48 psi
0.2 μm	<15 cc/min@35 psi
0.45 μm	<15 cc/min@20 psi

Per 10" length water wetted membrane

Microbiological Performance

Pore Size	<i>Acholeplasma Laidlawii</i>	<i>Brevundimonas diminuta</i>	<i>Serratia Marcescens</i>
0.1	≥ 7	≥ 10	
0.2		≥ 7	
0.45			≥ 7

The retention of the filter can be expressed as Log Reduction Value (LRV)

Ordering Guide (Example: MAS0.2-10S4S-P)

MAS	0.2	-	10	S4	S	P
PRODUCT CODE	MICRON	LENGTH	END CAP CONFIGURATION	GASKET / O-RING	GRADE	
MAS	0.1	10"	S3 = 222 w/ Fin End	E = EPDM	P= Pharmaceutical	
	0.2	20"	S4 = 222 w/ Flat End	S = Silicone		
	0.45	30"	S5 = 226 w/ Fin End	T = Teflon encapsulated		
		40"	S6 = 226 w/ Flat End	Viton		

Filter Housings

Shelco Filters offers a full line of filter housings to complement your MicroVantage filter cartridges ranging from our rugged single cartridge housings, heavy duty multi-cartridge housings to high purity sanitary housings, Shelco is the perfect choice for your filtration solutions.



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