



- Absolute retention ratings from 0.03 to 1.2 microns
- 7.2 square feet (0.67 m²) of media surface area per ten inch length for high throughput and longer service life
- Fully integrity tested to ensure reliable performance in critical applications
- 100% flushed with 18 megohm DI water for low extractables
- Manufactured in a Class 10,000 Clean Room environment for high purity
- Polypropylene hardware offers wide range of chemical compatibility
- Rigid, molded cage protects pleated media and strengthens structural stability
- 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
- Produced up to 40 inches in length (10 inch modules)

Applications

RO Pre/Post Filtration	Food & Beverage
DI Water	Bottled Water
Plating Solutions	Microelectronics
Specialty Chemicals	Process Water
Water & Wastewater	Cosmetics

Specifications & Operating Parameters

Pore Sizes 0.03, 0.1, 0.2, 0.45, 0.65, 0.8, 1.0 and 1.2 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:	Asymmetric Polyethersulfone
Outer Cage	Polypropylene
Inner Core:	Polypropylene
End caps:	Polypropylene

Maximum Operating Temperature 176°F (80°C)

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

Maximum Differential (Collapse) Pressure 75 psid @ 70°F (5.2 bar @21°C), 40 psid @176°F (2.8 bar @ 80°C)

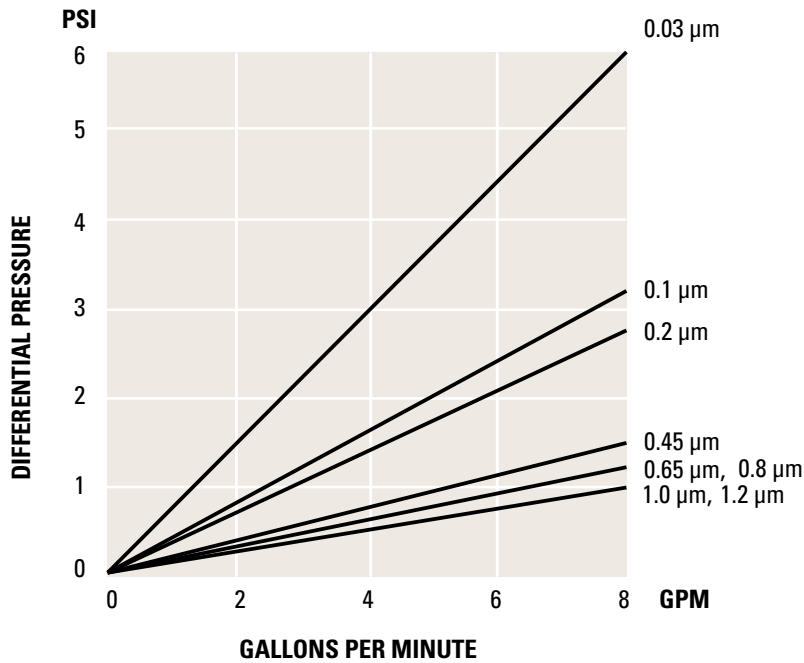
Sanitization and Sterilization

Hot water at 175°F (80°C) at 5 psid for 30 minutes
 In-line steam at 257°F (125°C) @ 1 psid (0.7 bar) for 30 minutes
 Autoclavable at 257°F (125°C) for 30 minutes

FDA and USP Compliance

All polypropylene 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



Integrity Testing

PORE SIZE	AIR DIFFUSION RATE
0.03 µm	<55cc/min@60psi
0.1 µm	<55cc/min@48psi
0.2 µm	<55cc/min@40psi
0.45 µm	<55cc/min@20psi
0.65 µm	<55cc/min@15psi
0.8 µm	<55cc/min@12psi
1.0 µm	<55cc/min@8psi
1.2 µm	<55cc/min@7psi
Per 10" length water wetted membrane	

This chart represents the typical water flow per 10" cartridge length. Cartridges are tested in water at ambient temperature. Data may be extrapolated for multiple lengths, but as flow rate increases, ΔP of the housing becomes more apparent.

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

MAS	0.2	10	S4	S	G	
PRODUCT CODE	MICRON	LENGTH	END CAP CONFIGURATION	GASKET/O-RING	GRADE	OPTION
MAS	0.03 0.1 0.2 0.45 0.65 0.8 1.0 1.2	9.75" 10" 19.75" 20" 29.25" 30" 40"	S1 = DOE S3 = 222 w/ Fin End S4 = 222 w/ Flat End S5 = 226 w/ Fin End S6 = 226 w/ Flat End S7 = Internal O-ring with Recessed Plug S9 = Internal O-ring on both ends	B = Buna N E = EPDM S = Silicone V = Viton T = Teflon encapsulated Viton (O-ring only)	G = General	HT = High Temperature*

* High Temperature construction (cage, core, end caps): Maximum Temperature 200°F (93.3°C) - Available only in 222 or 226 with Fin or Flat end caps.

Filter Housings

Shelco manufactures a full line of filter housings. From our rugged single cartridge housings to our heavy duty multi-cartridge housings. Shelco is the perfect choice for your filtration solutions.



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