

MicroVantage™ MAN Series

Nylon 66 Membrane Filter Cartridges

MicroVantage Ultra Premium Filter Series



- Absolute retention ratings from 0.1 to 0.65 microns
- Nylon 66 membranes provide electropositive charge to enhance particle removal through electrokinetic adsorption
- 7.2 square feet (0.67 m²) of media surface area per ten inch length for optimal performance
- MAN grade cartridges are flushed and dried to ensure reliable performance in critical applications
- Rigid, molded polypropylene cage protects pleated media and strengthens structural stability
- Manufactured in a state-of-the-art white room and Class 10,000 clean room 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
- 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 0.1, 0.2, 0.45, 0.65 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: | Nylon 66 |
| 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

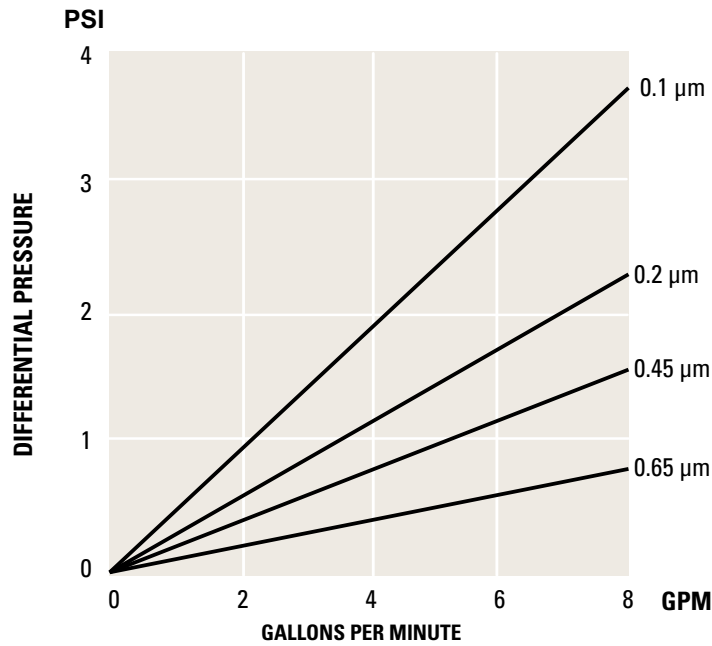
In-line steam at 257°F (125°C) @ 1 psid (0.7 bar) for 30 minutes

Autoclavable at 257°F (125°C) for 30 minutes

FDA and USP Compliance

All filters are manufactured of virgin polypropylene materials with no additives or other manufacturing agents. 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



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: MAN0.2-10S4S-E)

| MAN | 0.2 | - | 10 | S4 | S | - | E |
|--------------|----------------------------|---|--|--|---|------------------------|---|
| PRODUCT CODE | MICRON | LENGTH | END CAP CONFIGURATION | GASKET/O-RING | GRADE | OPTION | |
| MAN | 0.1 0.2 0.45 0.65 | 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 B = Beverage E = Electronic | 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.



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