

ALpHA®

MF10 Cartridge

Description

The MF grade ALpHA® filter cartridge is manufactured using high quality components that are nontoxic and biologically inert.

Materials of Construction

All components of the ALpHA® filter cartridge are either animal free or in compliance with EMEA/410/01 Rev. 3 (EDQM 5.2.8 07/2011:50208), and US Code of Federal Regulations 9 CFR 94.18 and 21 CFR 189.5. These materials are listed for food contact use in the Code of Federal Regulations (CFR), Title 21, as below:

Media:	Polypropylene	CFR Title 21, 177.1520
Upstream support:	Polypropylene	CFR Title 21, 177.1520
Downstream support:	Polypropylene	CFR Title 21, 177.1520
Outer guard:	Polypropylene	CFR Title 21, 177.1520
Core:	Polypropylene	CFR Title 21, 177.1520
End caps:	Polypropylene	CFR Title 21, 177.1520
O-rings:	Typically silicone	CFR Title 21, 177.2600
Sealing method:	Thermal bonding	

Particle Ratings (Absolute) 10 µm

Typical Water Flow Rate 0.03 psi / gpm per 10" module (18.3 Lmin⁻¹ @ Δp 10 mbar)

Operating Characteristics

Operating temperature range: 32 °F to 180 °F (0 °C to 82 °C)

Maximum temperature rating: 180 °F @ 30 psid (82 °C @ Δp 2,1 bar)

Maximum operating pressure: 80 psid @ 100 °F (5,5 bar @ 38 °C)

Sterilization

Autoclave: 121 to 135 °C (15 to 30 psi, 1 to 2 bar), 30 to 60 min, ≥ 3 cycles

Steamed in place (SIP): 121 to 135 °C (15 to 30 psi, 1 to 2 bar), 30 to 60 min, ≥ 3 cycles

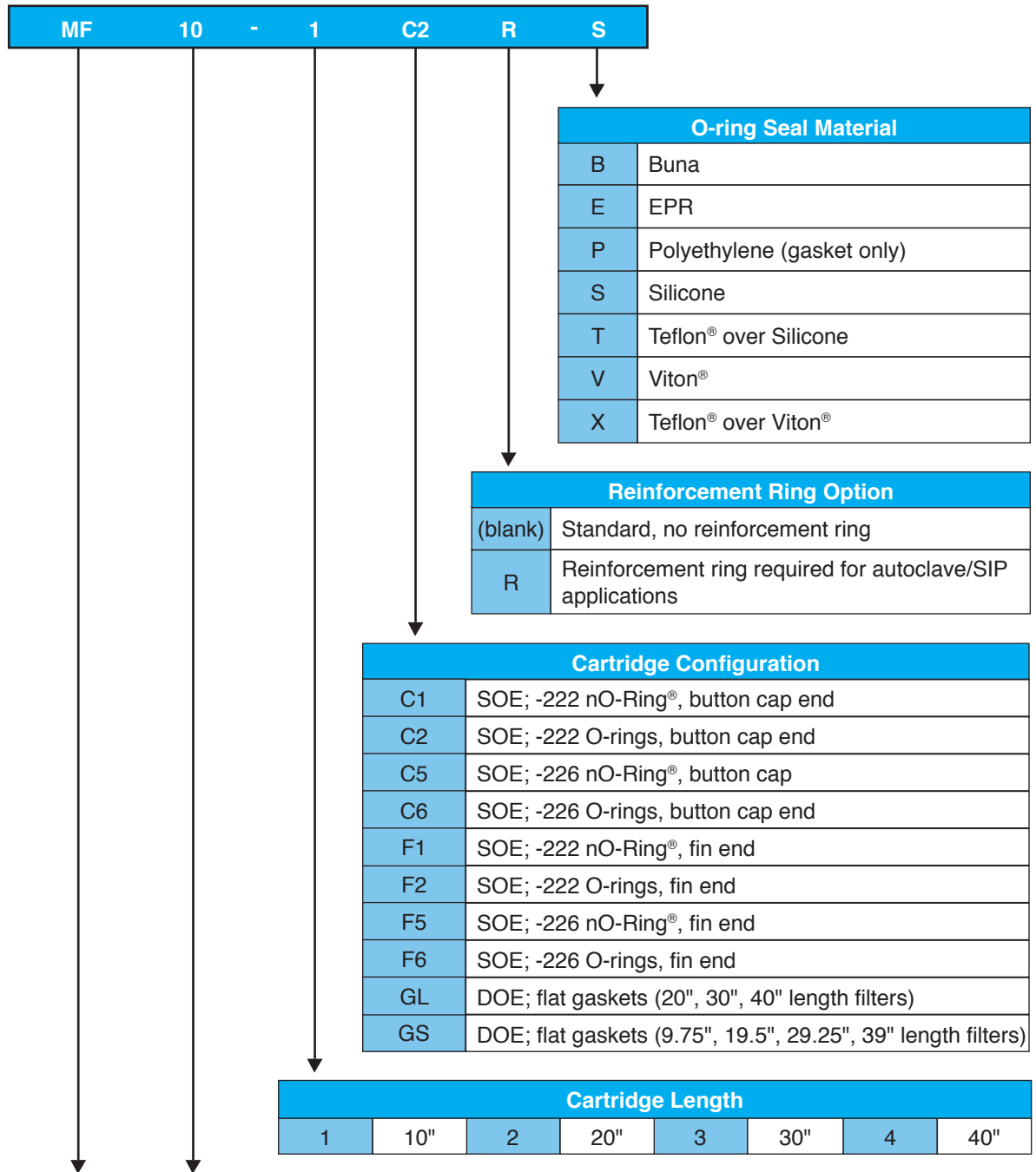
Biological Safety

ALpHA® filters meet the requirements as specified in the current USP Class VI plastics, physicochemical, oxidizable substances, and cytotoxicity tests. Bacterial endotoxin levels in aqueous extracts of ALpHA® filters are less than 0.25 EU/mL, as determined using the *Limulus* amoebocyte lysate (LAL) test. No binders, adhesives or surfactants are used in the construction of ALpHA® filters. Filters comply with Commission Regulation (EU) No 10/2011.

Quality Assurance

ALpHA® filters comply with the Food and Drug Administration Code of Federal Regulations, Title 21, Parts 210 and 211. Product is manufactured and packaged in a cleanroom facility that, through voluntary compliance, meets or exceeds FDA Good Manufacturing Practice Standards. To ensure product reliability, Meissner's Quality Assurance staff continually audits the manufacturing process for conformance to its Quality Management System. Each ALpHA® filter is clearly marked with filter type and lot number.

Ordering Guide



Product	Filter Grade	Retention Rating
ALpHA® polypropylene microfiber media	MF	10

Additional information about ALpHA® filter products is available in the Green Docs document which is viewable at <https://www.meissner.com/downloads/alpha-gd008-2.1.pdf>

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