ALpHA®

MF-grade 50 mm Capsule Filter (CB2 Model)

Description

The ALpHA® filter capsule is an absolute rated depth-type polypropylene microfiber filter that is optimized for use in single-use clarification and pre-filtration applications. Its all-polypropylene construction provides broad chemical compatibility and low extractable levels. The ALpHA® filter delivers superior flow rates and high throughput with absolute particulate retention and high dirt holding capacity.

Materials of Construction

All components of the encapsulated discs are animal component free. These materials are listed for food contact use in the Code of Federal Regulations (CFR), Title 21, as below:

Filter Media	Polypropylene	CFR Title 21, 177.1520
Downstream support	Polypropylene	CFR Title 21, 177.1520
Capsule housing	Polypropylene	CFR Title 21, 177.1520
Sealing method	Thermal Bonding	

Retention Ratings	0.6, 0.8, 1.2, 2.4, 5, 7, 10, 30, 40, 70 µm
Effective Filtration Area	19.6 cm^2

Operating Characteristics

Operating temperature range:	32 °F to 100 °F (0 °C to 38 °C)
Maximum temperature rating:	160 °F @ 35 psig (71 °C @ 2.4 bar)
Maximum operating pressure:	80 psig @ 100 ºF (5.5 bar @ 38 ºC)
Maximum reverse pressure:	15 psig @ 100 ºF (1.0 bar @ 38 ºC)

Sterilization

Autoclave: 121 °C to 135 °C (15 to 30 psi, 1 to 2 bar), 30 to 60 minutes, ≥ 3 cycles.
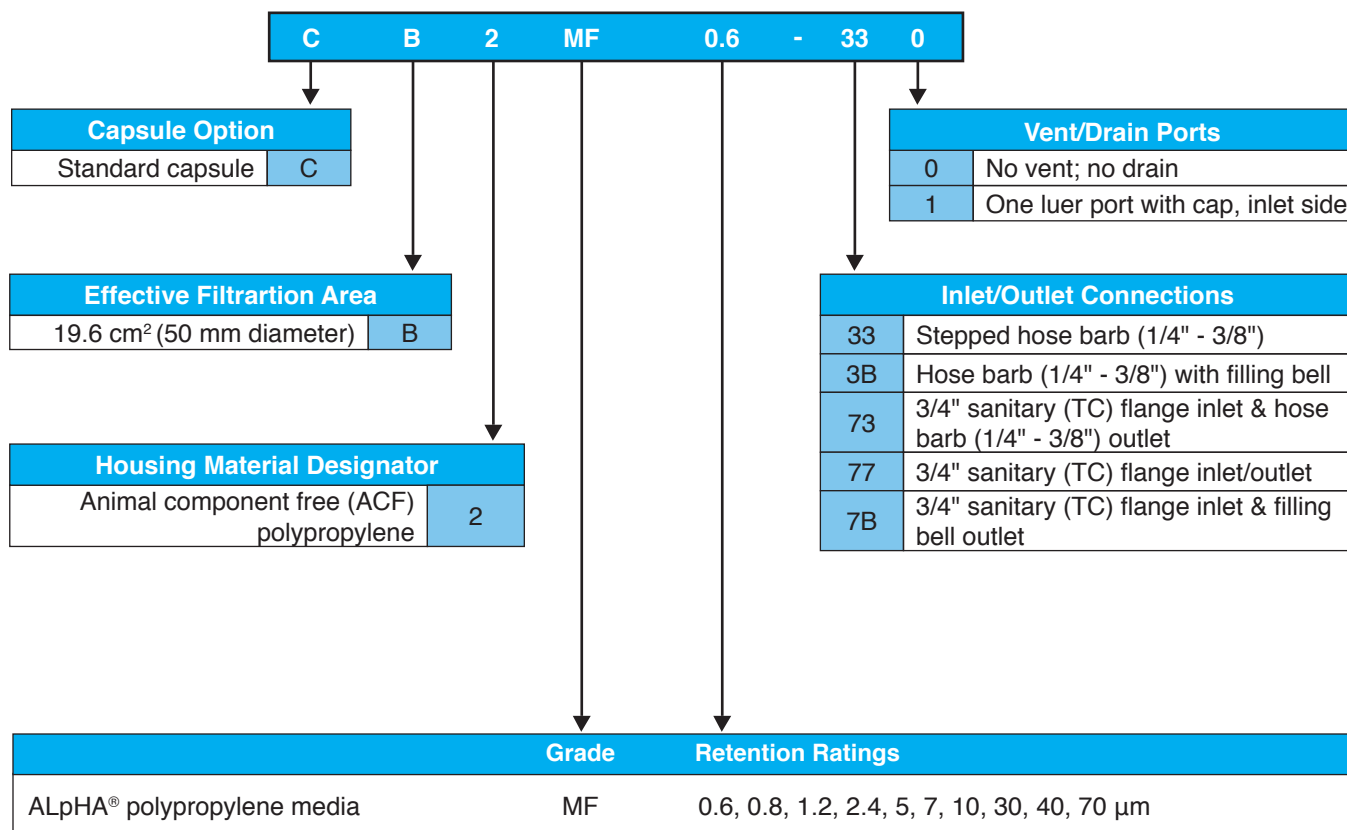Capsules must not be in-line steam sterilized (SIP) or gamma irradiated.

Biological Safety

ALpHA® filters meet the requirements as specified in the current USP <88> Class VI plastics, physiochemical, oxidizable substances, and USP <87> cytotoxicity tests. No adhesives, binders, or surfactants are used in the construction of ALpHA® filters. The 50 mm capsules are TSE/BSE/animal component free (ACF). Filters comply with European Commission Regulation 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 filter is clearly marked with filter type, lot number, and serial number.

MEISSNER FILTRATION PRODUCTS

Ordering Guide

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Capsule Option

Standard capsule	C

Vent/Drain Ports

0	No vent; no drain
1	One luer port with cap, inlet side

Effective Filtration Area

19.6 cm² (50 mm diameter)	B

Inlet/Outlet Connections

33	Stepped hose barb (1/4" - 3/8")
3B	Hose barb (1/4" - 3/8") with filling bell
73	3/4" sanitary (TC) flange inlet & hose barb (1/4" - 3/8") outlet
77	3/4" sanitary (TC) flange inlet/outlet
7B	3/4" sanitary (TC) flange inlet & filling bell outlet

Housing Material Designator

Animal component free (ACF) polypropylene	2

	Grade	Retention Ratings
ALpHA® polypropylene media	MF	0.6, 0.8, 1.2, 2.4, 5, 7, 10, 30, 40, 70 µm

Additional information about this filter product is available in the ALpHA® Green Docs document at www.meissner.com/green-docs.

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MEISSNER
FILTRATION PRODUCTS

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