

Ultradyne®

0.2 µm TA-grade 50 mm Filter (CB2 Model)

Description

The Ultradyne® TA0.2 is a sterilizing grade hydrophobic PTFE membrane filter optimized for small-scale gas line and air venting applications. Designed for bidirectional flow, this filter is well suited for applications requiring high efficiency removal of airborne bacteria and particulates from air and gas streams, such as fermenter inlet air and exhaust, process air, and sterile venting of carboys, filling vessels, bioreactors and small product or intermediate tanks. The product also has broad chemical compatibility and is suitable for filtering aggressive solvents.

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:

Membrane	Polytetrafluoroethylene	CFR Title 21, 177.1550
Downstream support	Polypropylene	CFR Title 21, 177.1520
Capsule housing	Polypropylene	CFR Title 21, 177.1520
Sealing method	Thermal Bonding	

Pore Size 0.2 µm

EFA 19.6 cm²

Bacterial Retention >10⁷ cfu/cm² retention of *Brevundimonas diminuta* per ASTM F838

Minimum Bubble Point 16 psi (1.10 bar), 60% IPA/40% water

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 °F (5.5 bar @ 38 °C)
Maximum reverse pressure:	15 psig @ 100 °F (1.0 bar @ 38 °C)

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 or gamma irradiated.

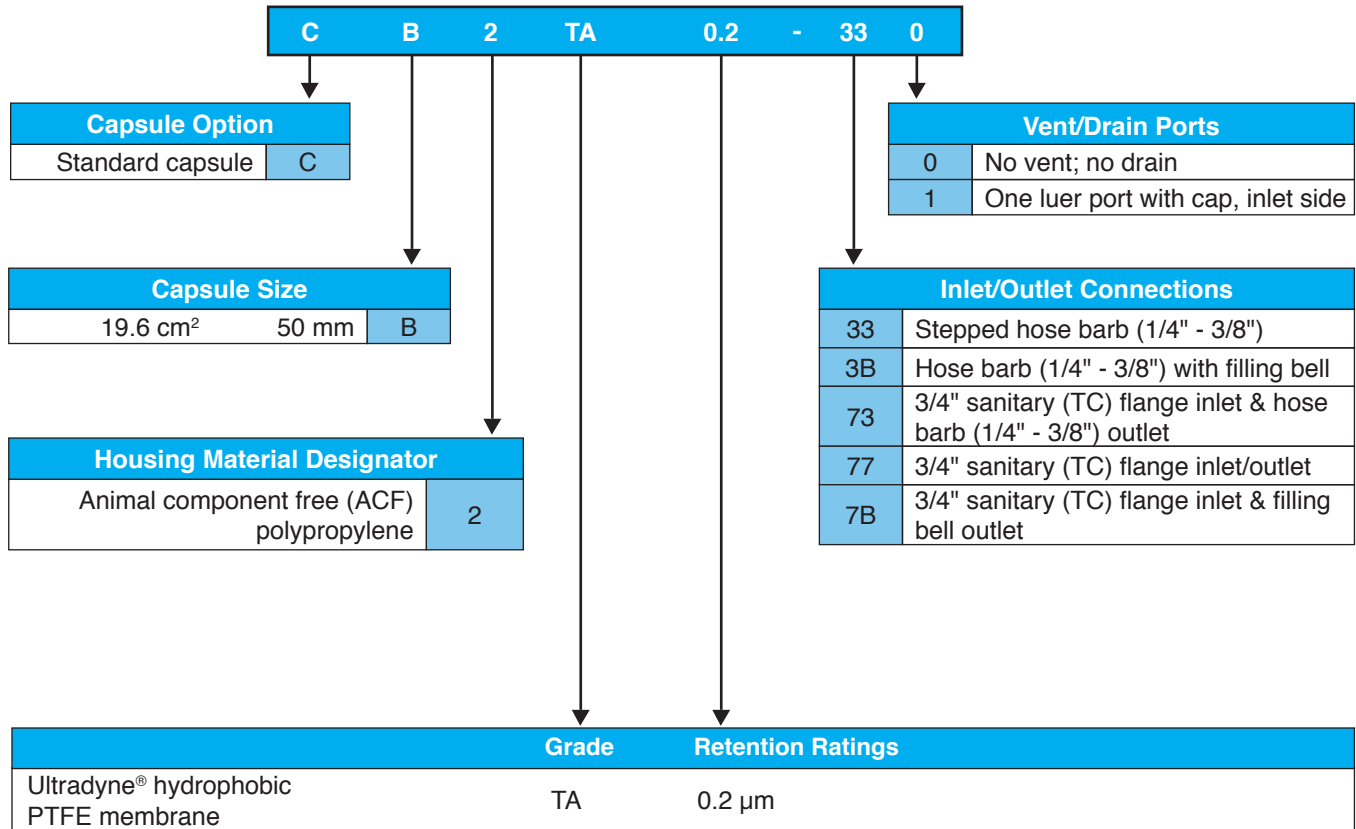
Biological Safety

Ultradyne® filters meet the requirements as specified in the current USP <88> Class VI plastics, USP <87> cytotoxicity and pyrogenicity tests. No adhesives, binders, or surfactants are used in the construction of Ultradyne® filters. Filters comply with European Commission Regulation No 10/2011. The 50 mm capsules are TSE/BSE/animal component free (ACF).

Quality Assurance

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.

Ordering Guide



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

Ultradyne® is a registered trademark of Meissner Filtration Products.
 © 2020 Meissner Filtration Products, Inc. All rights reserved.