

# ALpHA®

## UltraCap® Capsule

### **Description**

The ALpHA® filter capsule is an absolute-rated polypropylene microfiber filter especially suited for a broad range of clarification and prefiltration applications where purity, economy and reliability are critical. Its all-polypropylene construction provides broad chemical compatibility and low extractable levels. The filter delivers superior flow rates and high throughput with absolute particulate retention and high dirt holding capacity. The versatile ALpHA® filter is ideal for virtually all critical applications from chemical process to pharmaceutical manufacture and is particularly appropriate for use when high quality filtration is of importance.

### **Materials of Construction**

All components of the ALpHA® filter capsule 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
Capsule housing:	Polypropylene	CFR Title 21, 177.1520
Sealing method:	Thermal bonding	

**Retention Ratings (Absolute)** 0.45, 0.6, 0.8, 1.2, 2.4, 5, 7, 10, 20, 30, 40 and 70 µm

**Typical Water Flow Rate** <2 to 10 gpm per 10" length (<7.5 to 38 L/min)

### **Operating Characteristics**

Operating temperature range: 32 °F to 100 °F (0 °C to 38 °C)

Maximum Temperature rating: 140 °F @ 45 psig (60 °C @ 3,1 bar) liquid, @ 30 psig (2,1 bar) gas

Maximum Operating pressure (liquid service): 75 psig @ 100 °F (5,2 bar @ 38 °C)

Maximum Operating pressure (gas service): 50 psig @ 100 °F (3,4 bar @ 38 °C)

### **Sterilization**

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

Capsules must not be steamed in place (SIP).

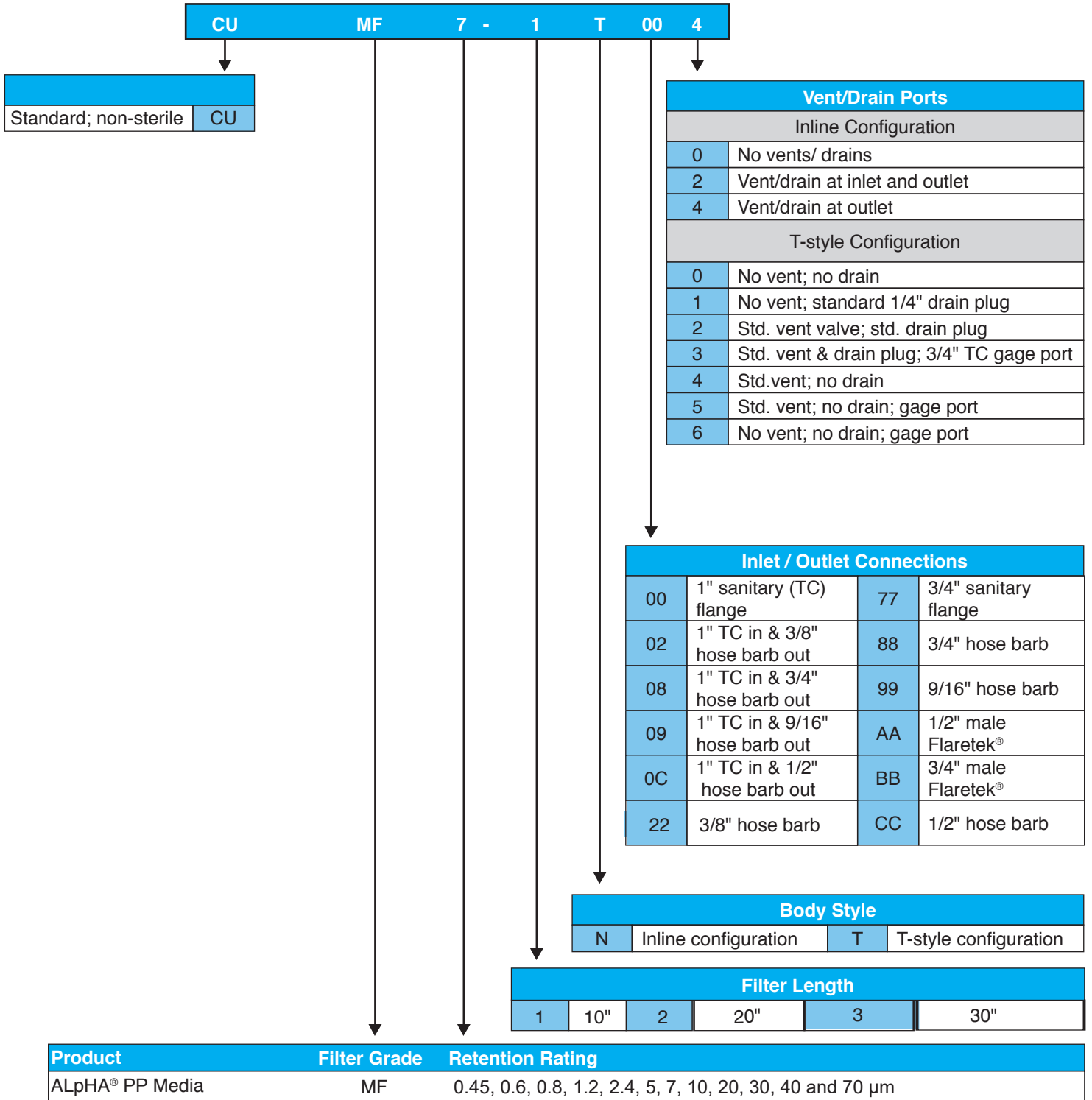
### **Biological Safety**

ALpHA® filters meet the requirements as specified in the current USP Class VI plastics, physicochemical, oxidizable substances, and cytotoxicity tests. No binders, adhesives or surfactants are used in the construction of ALpHA® filters. 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 ALpHA® filter is clearly marked with filter type, lot number and serial number.

**Ordering Guide**



Additional information about ALpHA® filter products is available in the Green Docs document which is viewable at <https://www.meissner.com/greendocs>.