

# ALpHA® G

## MG-grade Mini Capsule Filter (CK2/CM2 Model)

### **Description**

ALpHA® G capsule filters utilize a unique absolute-rated depth type polyester filter media that is compatible with gamma irradiation commonly used to sterilize single-use systems. The filter is particularly suited for processes that involve the removal of colloidal protein aggregates and solids from cell culture fluid, and the recovery of product or filtrate. It delivers high throughput with absolute particulate retention and high dirt holding capacity under demanding conditions. ALpHA® G filters can be gamma irradiated and provided sterile for immediate use.

### **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:

Media	Polyester (PBT)	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** 0.6, 1.2, 2.4, 5, 7, 10, 20 µm

### **Operating Characteristics**

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

Maximum temperature rating: 80 psig @ 100 °F (5.5 bar @ 38 °C)

Maximum operating pressure: 100 psig @ 122 °F (6.9 bar @ 50 °C)

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

Maximum reverse operating pressure (gas service): 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.

Gamma irradiation: 25 to 40 kGy once. Do not autoclave irradiated capsules.

Capsules must not be in-line steam sterilized.

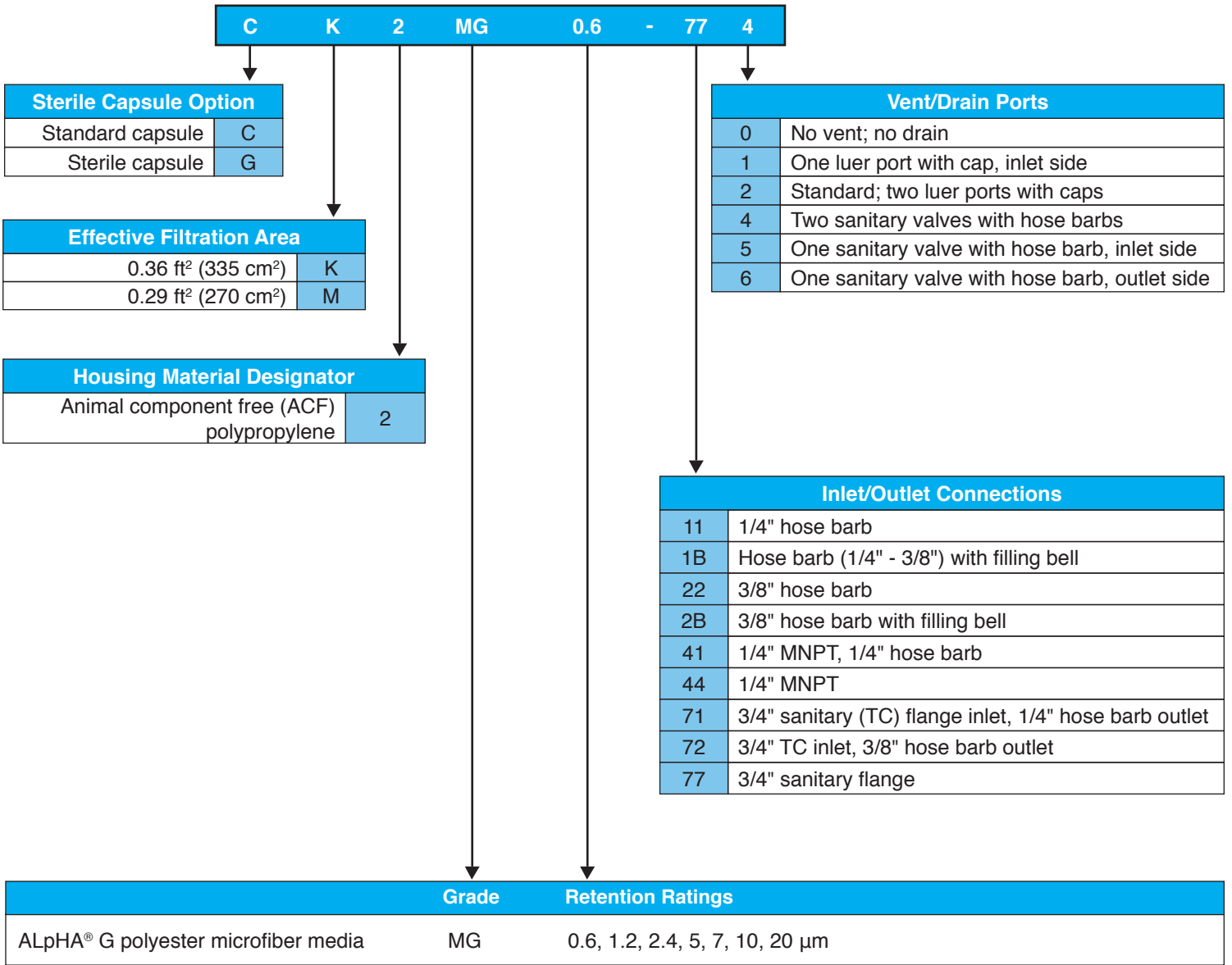
### **Biological Safety**

ALpHA® G filters meet the requirements as specified in the current USP <88> Class VI plastics, physicochemical, oxidizable substances, and USP <87> cytotoxicity tests. No binders, adhesives or surfactants are used in the construction of ALpHA® G filters.

### **Quality Assurance**

ALpHA® G 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® G filter is clearly marked with filter type, lot number and serial number.

**Ordering Guide**



Additional information about this filter product is available in the ALpHA® G Green Docs document at [www.meissner.com/green-docs](http://www.meissner.com/green-docs).

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