### Masterfilter MC series

The Masterfilter *MasterCap* MC capsule filters are used for removal of micro-organisms and fine particles from liquids. Made of polypropylene and high-performance filtration media such as PES, PVDF, Polypropylene and Glass Fiber the MC-I and MC-T are the ideal filters to satisfy the highest standards in a broad range of applications. It is especially designed for self-contained assemblies in Pharmaceutical, Microelectronics and Food and Beverage. No adhesives or glue are used in manufacturing and all bonding is by thermal welding. *MasterCap* MC filters are available in T-style and in In-line configuration.

#### **Applications**

- Bio-Pharmaceutical: Serum filtration, Tissue culture media, Viscous biological liquids, Blood derivatives, Ophthalmic, Oncological products, Microbiological growth media
- Microelectronics: Metal and oxide CMP slurries, Chemical rinse solutions, Acids, Bases, Solvents

#### **Features and Benefits**

- Single-use filtration systems save cleaning time and validation cost
- Available in 5", 10", 20" and 30" lengths to optimise flow rates and throughput
- Capsules are available in pre-sterilised packages
- No housing maintenance required
- High throughput
- T-style and Inline versions available

#### **Materials of Construction**

- Outer shell: Polypropylene
- Filter media: Double layer Polyether sulfone
- PVDF
- PTFE
- - Single layer Polyether sulfone
- Absolute rated high efficiency
- Polypropylene
- Glass fiber
- Double layer Nylon 66 positive
- charged
- Sealing: Thermal bonding



#### **Operating Parameters**

- Max. differential pressure Liquids: 5.5 bar at 25 °C, 1.0 bar at 80 °C
- Max. operation pressure Gas: 4.0 bar at 0 - 60 °C, 2.1 bar at 60 °C

#### **Quality Standards**

 Quality Assurance: These products are manufactured in a facility which adheres to ISO 9001:2015 Practices

#### **Biological Standards**

- Extractable (NVR): < 30mg/10" (Test procedures: steam sterilized for 30min. at 121 °C, then soaked in purified water for 24 hours)
- Oxidability: Meets FDA requirements for oxide test (Test procedures: steam sterilized for 30min. at 121 °C, then soaked in purified water for 24 hours)
- Endotoxin: < 20 EU/ml, according to LAL test
- Material safety: Meets UPS 88, for class VI-121 °C plastics



# MasterCap MC Capsule Filter

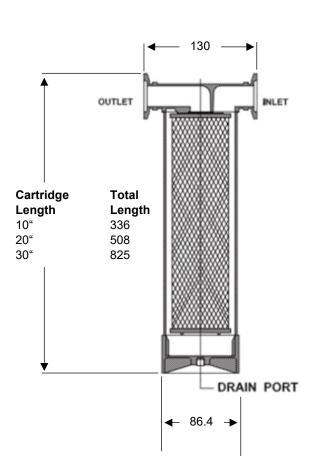
# Single Use Assembly

**Dimensions** 



MC-T

MC-I 127 OUTLET Cartridge Total Length Length 214 05" 10" 336 20" 508 30" 825 2 TT INLET 86.4 4 



## MasterCap MC Capsule Filter

Single Use Assembly

## Part Numbers (MC-I = Inline, MC-T = T-Style)

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Code	Membrane media	Code	Removal rating [µm]
DPES	Double layer PES	020020	0.2 + 0.2
		020010	0.2 + 0.1
	1 20	045020	0.45 + 0.2
PVD	Hydrophilic PVDF	010	0.1
		020	0.2
		045	0.45
NYPC	Hydrophilic Nylon 6.6	020020	0.2 + 0.2
		045020	0.45 + 0.2
		120045	1.2 + 0.2
L	Hydrophilic PTFE	0010	0.1
		0020	0.2
		0045	0.45
PES	Single layer PES	020	0.2
Т	Hydrophobic PTFE	002	0.2
PVDH	Hydrophobic PVDF	020	0.2
APK	Absolute rated high efficiency PP	0020	0.2
		0050	0.5
		0100	1
		0300	3
		0500	5
		1000	10
GFK	Glass fiber	0100	1
		0500	5

	Cartridge Length		
Code	[inch]	[mm]	
05*	5	128	
10	10	254	
20	20	508	
30	30	762	
40			

Code	Inlet / Outlet Connection	
С	1-1/2" Tri-clamp	

Masterfilter

e.g. part number: MC-I-DPES-045020-10-C MasterCap MC-I DPES, 0.45 + 0.2 µm, 10" Length, 1-1/2" Tri-clamp

0500

Vent / drain MC-I: 6 mm Hose Barb connection and valve Vent / drain MC-T: 6 mm Hose barb connection



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