

Masterfilter MCC series

The Masterfilter *MasterCap* MCC 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. They 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* MCC capsules are available in the 2 versions.

Applications

- Bio-Pharmaceutical: Serum filtration, Tissue culture media, Viscous biological liquids, Blood derivatives, Ophthalmics, 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
- No housing maintenance required
- High throughput
- 100% Integrity tested
- 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. operating pressure - liquids: 5.5 bar at 25 °C, 1.0 bar at 80 °C
- Max. operation pressure - gases: 4.0 bar at 0 °C to 60 °C, 2.1 bar at 60 °C
- Sterilisation: Autoclavable, ca not be inline steam sterilised

Reference Biological Standards

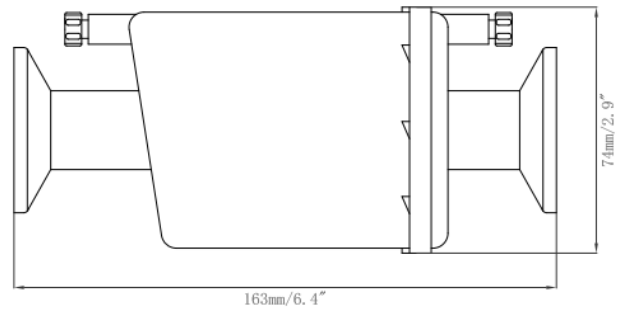
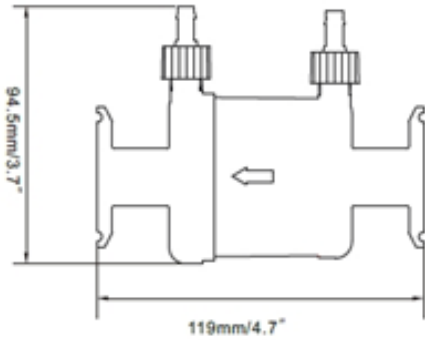
- Extractable (NVR): < 30mg/10" length (Test procedures: steam sterilised for 30 minutes at 121 °C, then soaked in purified water for 24 hours)
- Oxidability: Meets FDA requirements for oxide test (Test procedures: steam sterilised for 30 minutes at 121 °C, then soaked in purified water for 24 hours)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

MasterCap MCC Capsule Filter

Single Use Assembly



Dimensions



Part Numbers (MCC-I = Inline, MCC-T = T-Style)

MCC-I DPES-C - 45020 - 6.5 - C
 MCC-T

Code	Membrane media	Code	Removal rating [µm]	Length		Code	Connections
				[mm]	[inch]		
DPES-C	Double layer Polyether sulfone	020020	0.2 + 0.2	05	119	4.7	C
		020010	0.2 + 0.1				
		045020	0.45 + 0.2				
		080020	0.8 + 0.2				
PESS-C	Single layer Polyether sulfone	020	0.2	6.5	163	6.4	
PVD-C	PVDF hydrophilic	010	0.1				
		020	0.2				
		045	0.45				
SLF-CT	PTFE hydrophobic	002	0.2				
PVDH-C	PVDF hydrophilic	020	0.2				
APK-C	Absolute rated high efficiency	0020	0.2				
		0050	0.5				
		0100	1				
		0300	3				
		0500	5				
		1000	10				
GFK	Glass fiber	0100	1				
		0500	5				
NYPC-C	Double layer Nylon 66 positive charged	020020	0.2 + 0.2				
		045020	0.45 + 0.2				

e.g. part number: MCC-I-DPES-C-045020-6.5-C

MasterCap double layers DPES-C, 0.45 + 0.2 µm, 6.5" Length, 1-1/2" Tri-clamp