

MasterCap C Capsule Filter

Single Use Assembly



Masterfilter MasterCap C Capsule filter

MasterCap C 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 & Beverage. No adhesives or glue are used in manufacturing and all bonding is by thermal welding. MasterCap C 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 & 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:	Hydrophilic membrane	Double layer Polyethersulfone	DPES
		PVDF	PVDN
		PTFE	L
		Single layer Polyethersulfone	PES
	Hydrophobic membrane	PTFE	T
	Microfiber	PVDF	PVDH
		Absolute rated high efficiency Polypropylene	APK
		Glass fiber	GFK
	Nylon 66	Double layer Nylon 66 positive charged	NYPC
▪ Sealing :	Thermal bonding		

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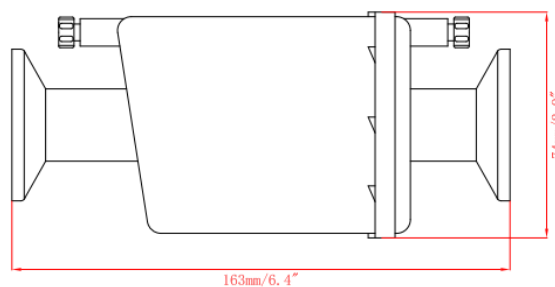
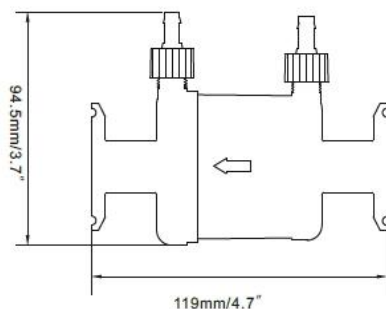
Operating parameters

▪ Maximum operating:	Pressure liquid	5.5 bar @ 25°C 1.0 bar @ 80°C
▪ Maximum operating:	Pressure gas	4.0 bar @ 0°C-60°C 2.1 bar @ 60°C
▪ Sterilisation:	Autoclavable	Cannot be inline steam sterilized

Biological standards

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

Dimensions



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Part Numbers

DPES	-	45020	-	6,5	-	C	-
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Code	Membrane media	Code	Removal rating μm	Code	Length		Code	Connection
					mm	inch		
DPES-C	Polyethersulfone Double layer	020020 020010 045020 080020	0,2+0,2/ 0,2+0,1/ 0,45+0,2/ 0,8+0,2	05	119	4,7"	C	1-1/2" Tri-clamp
PESS-C	Polyethersulfone Single layer	020	0,2					
PVD-C	PVDF hydrophilic	010 020 045	0,1 0,2 0,45	6,5	163	6,4"		
SLF-CT	PTFE hydrophobic	002	0,2					
PVDH-C	PVDF hydrophobic	020	0,2					
APK-C	Absolute rated high efficiency Polypropylene	0020	0,2					
		0050	0,5					
		0100	1,0					
		0300	3,0					
		0500	5,0					
		1000	10					
GFK-C	Glass fiber	0100 0500	1,0 5,0					
NYP-C	Double layer Nylon 66 positive charged	020020 045020	0,2+0,2/ 0,45+0,2					

e.g. part number: -DPES-C-045020-6,5-C