

Hall Pyke



Capsule filtration

StarCaps®

The SMART choice for filtration



StarCaps® Capsule Filter Series

Ready-to-Use Capsule Filters · From R&D to Production

StarCaps® Capsule Filters are self-contained ready-to-use capsule filters. Available in varying sizes and filter media including depth filters, liquid sterile-grade filters and gas filters, they were developed to meet a wide range of pharmaceutical filtration requirements from R&D to Production.

StarCaps Capsule Filter Series eliminates cleaning validation requirements when compared to the traditional filter cartridge and housing combination.

Features and Benefits

- Can be used from R&D to Production
- Available in varying filter medias depending on application requirements
- Disposable filter design reduces cleaning and maintenance cost
- Thermally bonded with no adhesives or glues
- Sanitary flange and hose barb connections provide clean and easy connection

Quality Standards

- Manufactured in a facility which adheres to ISO 9001:2015 Practices .
- Full Regulatory Compliance with following :
 - Bacterial Endotoxin :Aqueous extraction of autoclaved filter contains <0.25 EU/ml as determined by Limulus Amebocyte Lysate (LAL),USP<85>.
 - Non-fiber Releasing :Component materials meet the criteria for a " Non-fiber-releasing filter " as defined in 21 CFR 210.3(b)(6).
 - Component Material Toxicity :Meet the requirement of USP <87> In Vitro Cytotoxicity Test ; Meet the Criteria of USP<88> Biological Reactivity Test for Class VI-121 C plastics
 - TOC/Conductivity at 25 °C : Autoclaved filter effluent meet the USP<643> for Total Organic Carbon and USP<645> for Water Conductivity per WFI requirements after a UPW flush of specified volume .
 - Particle Shedding : Autoclaved filter effluent meet the USP<788>for large volume Injections .
 - Indirect Food Additive: All component materials meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182 ,and EU framework regulation [1935/2004/EC].

Typical Applications

- Biological Fluids
- Buffer Solutions
- Chemicals
- Cleaning and Disinfecting Solutions
- Injectable Solutions
- Gas Filtration





Materials of Construction

Outer Shell	Gamma Stable Polypropylene		
Filter Media*		Code	Media
	Membrane Media	SPSHR	Symmetric PES Membrane
		APSB	Asymmetric PES Membrane
DPSDDT		Double-layer PES Membrane	
LHPVNDR		PVDF Membrane	
LHPVHBR		Charged PVDF Membrane	
LHPF		Hydrophilic PTFE Membrane	
GPF-P (for gas) LPF (for liquids)		Hydrophobic PTFE Membrane Hydrophobic PTFE Membrane	
Depth Media	APP	Absolute-Rated Polypropylene	
	HPP	Nominal-Rated Polypropylene	
	PFSA2	Multi-layer Polypropylene	
	LGFP	Glass Fiber	
Sealing Material	Please see the Ordering Information below		
Inlet & Outlet Vent/Drain Ports	According to Ordering Information		

* This table does not indicate all the available filtration media. For additional media options, please contact Cobetter or your Cobetter Sales Engineer.

Effective Filtration Area

Capsule	SPSHR	APSB	DPSDDT	LHPVNDR	LHPVHB	DLHPVNDR	DLHPVHBR
KZ50	33cm ²	33cm ²	33cm ²	33cm ²	33cm ²	33cm ²	33cm ²
PKZ	370cm ²	440cm ²	370cm ²	370cm ²	370cm ²	350cm ²	350cm ²
STKZ	1170cm ²	1430cm ²	1170cm ²	1140cm ²	1140cm ²	1140cm ²	1140cm ²
WSF 5inch	2660cm ²	2640cm ²	2660cm ²	2760cm ²	2760cm ²	2640cm ² -2660cm ²	2640cm ² -2660cm ²
WSF 10inch	5080cm ²	4995cm ²	4970cm ²	5220cm ²	5220cm ²	4990cm ² -5030cm ²	4990cm ² -5030cm ²
UCF-T 5inch	2660cm ²	2640cm ²	2660cm ²	2760cm ²	2760cm ²	2640cm ² -2660cm ²	2640cm ² -2660cm ²
UCF-T 10inch	4970cm ²	4995cm ²	4970cm ²	5220cm ²	5220cm ²	4990cm ²	4990cm ²
92WM	390cm ²	470cm ²	430cm ²	390cm ²	390cm ²	380cm ² -500cm ²	380cm ² -500cm ²
WM	720cm ²	870cm ²	800cm ²	720cm ²	720cm ²	800cm ² -1030cm ²	800cm ² -1030cm ²
195WM	1320cm ²	1530cm ²	1350cm ²	1320cm ²	1320cm ²	1420cm ² -1820cm ²	1420cm ² -1820cm ²
STBT1	1140cm ²	1430cm ²	1170cm ²	1140cm ²	1140cm ²	1140cm ²	1140cm ²
STBT2	2060cm ²	2520cm ²	2060cm ²	2060cm ²	2060cm ²	2060cm ²	2060cm ²

LHPF	GPF-P	LPF	APP	HPP	PFSA2	LGFP
33cm ²	33cm ²	33cm ²	33cm ²	33cm ²	33cm ²	33cm ²
580cm ²	490cm ²	610cm ²	340cm ²	340cm ²	200cm ²	180cm ²
1790cm ²	1640cm ²	1570cm ²	930cm ²	1000cm ²	420cm ²	570cm ²
4110cm ²	3870cm ²	3870cm ²	1920cm ² - 3000cm ²	2400cm ²	370cm ² -1260cm ²	840cm ² -1560cm ²
7690cm ²	7230cm ²	7240cm ²	3630cm ² - 5670cm ²	4540cm ²	840cm ² -2440cm ²	1590cm ² -1950cm ²
4110cm ²	3870cm ²	3870cm ²	1920cm ² - 3000cm ²	2400cm ²	370cm ² -1260cm ²	840cm ² -1560cm ²
7690cm ²	7230cm ²	7240cm ²	3630cm ² - 5670cm ²	4540cm ²	840cm ² -2440cm ²	1590cm ² - 2950cm ²
580cm ²	910cm ²	560cm ²	460cm ²	390cm ²	220cm ²	230cm ²
1070cm ²	1740cm ²	1130cm ²	870cm ²	740cm ²	440cm ²	410cm ²
1890cm ²	3060cm ²	1930cm ²	1150cm ²	1300cm ²	780cm ²	730cm ²
1790cm ²	1640cm ²	1570cm ²	930cm ²	1000cm ²	570cm ²	570cm ²
3150cm ²	2880cm ²	2790cm ²	1700cm ²	1820cm ²	970cm ²	1098cm ²

Operating Conditions

Max. Continuous Operating Temperature 40°C

Max. Differential Pressure 5bar / 20°C (forward)

* Sterile-grade Capsule Filters are Integrity Tested. Please contact your Cobetter Sales Engineer for the Integrity Test Data related to your sterile-grade filter

** StarCap Capsule Filters can be autoclaved 50-200 cycles (each cycle lasting 30min under 130°C). Please contact your Cobetter Sales Engineer to received specific information regarding autoclaving conditions.

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