

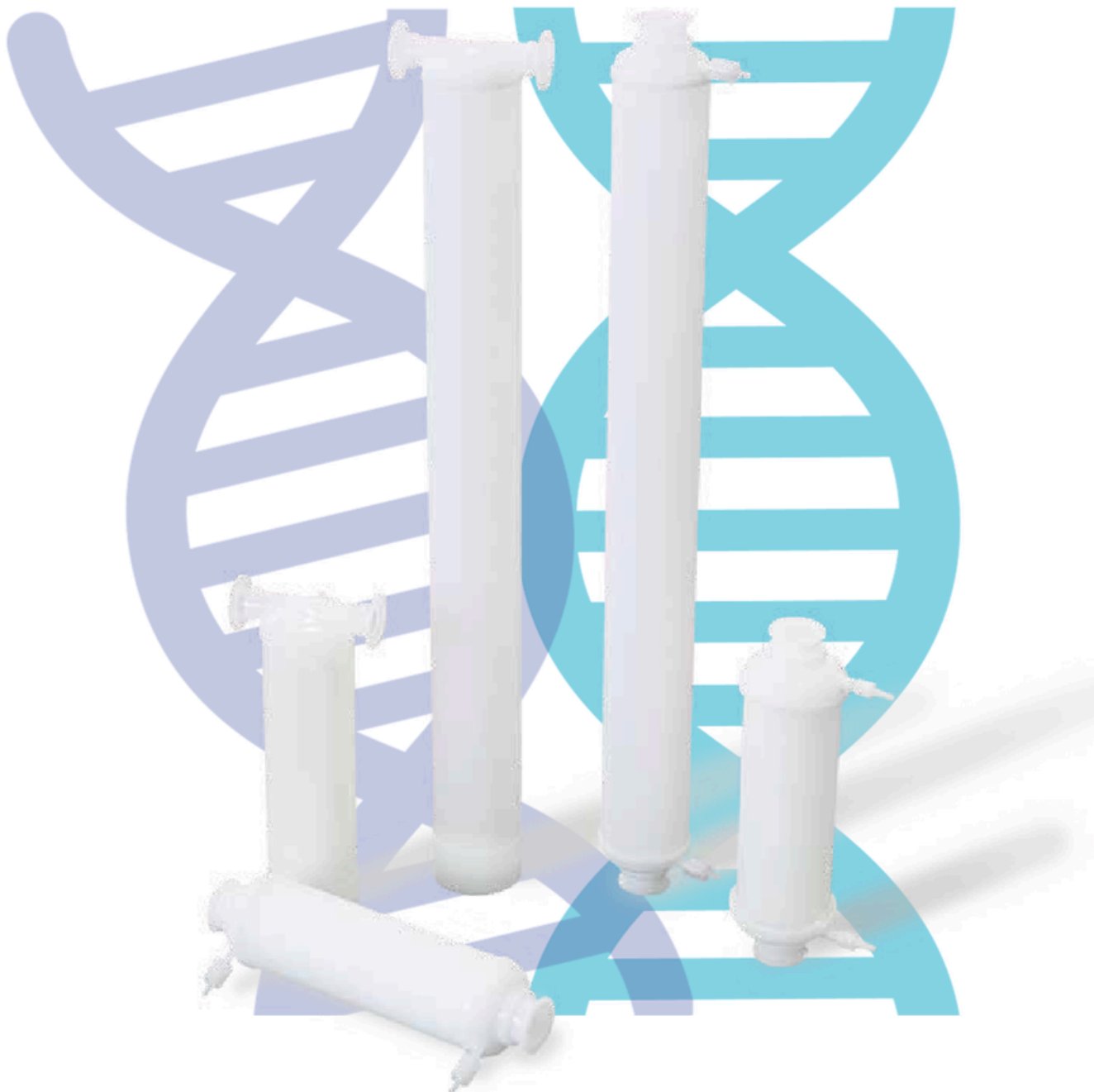


StarCaps[®] Capsule Filter Series

Ready-to-Use Capsule Filters for R&D and Production

Cobetter StarCaps Capsule Filters are self-contained ready-to-use capsule filters for contaminant, bacteria, and particle removal in bio-pharmaceutical applications.

StarCaps Capsule Filter Series feature a linear filter design and sanitary flange flexible connectors.





Features and Benefits

- Different options of filtration media are available from pre-filtration to sterile filtration media
- Disposable filter design reduces cleaning time and maintenance costs
- Wide range of sizes available to meet all R&D and production requirements
- Thermally bonded with no adhesives or glues used
- Flange and hose barb inlet/outlet connection provides a sanitary and easy connection

Typical Applications

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

Quality Assurance*

- StarCaps® Capsule Filters are manufactured per ISO 9001
- **Cleanliness**
All components of StarCaps® Capsule Filters meets the requirements for non-fiber releasing according to Regulation 21 CFR
- **TOC & Conductivity**
StarCaps® Capsule Filters flushed water: TOC <0.5 mg/L and conductivity $\leq 5.1 \mu\text{S}/\text{cm}@25^\circ\text{C}$
- **Microbiological Retention**
Sterilizing-grade StarCaps® Capsule Filters are all validated according to ASTM F838
- **Integrity**
100% Integrity Tested

* The item listed above does not provide all the available information. For additional information, please contact Cobetter or your Cobetter Sales Engineer.





Materials of Construction

Outer Shell	Gamma Stable Polypropylene		
Filter Media*	Membrane Media	Code	Media
			SPSHR Symmetric PES Membrane
			APSBR Asymmetric PES Membrane
			DPSDDT Double-layer PES Membrane
			LHPVND PVDF Membrane
			LHPVHBR Charged PVDF Membrane
			LHPF Hydrophilic PTFE Membrane
			GPFL (for gas) Hydrophobic PTFE Membrane
		LPF (for liquids) Hydrophobic PTFE Membrane	
		Depth Media	APP Absolute-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.

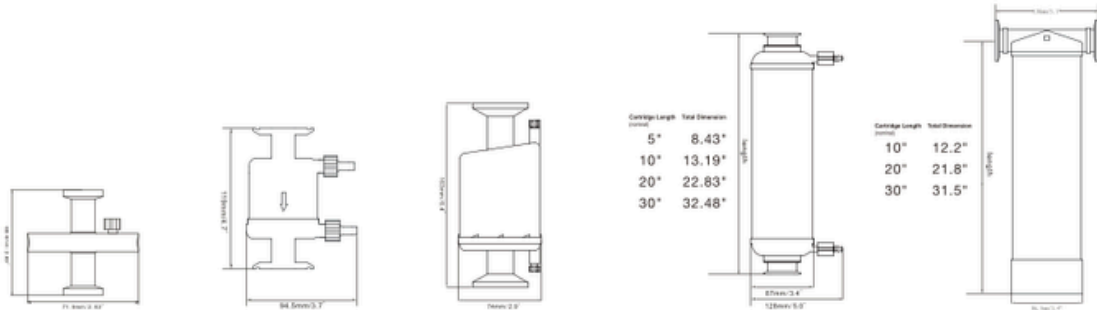
Operating Conditions

Max. Operating Pressure/ Liquid	5.2 bar @0°C- 38°C
	3.1 bar @60°C
Max. Operating Pressure/ Gas	5.2 bar @0°C- 38°C
	3.1 bar @60°C
Sterilization Membrane Capsule Filter	Withstand autoclave up to 200 cycles (130°C; 30min)
	Depth Capsule Filter

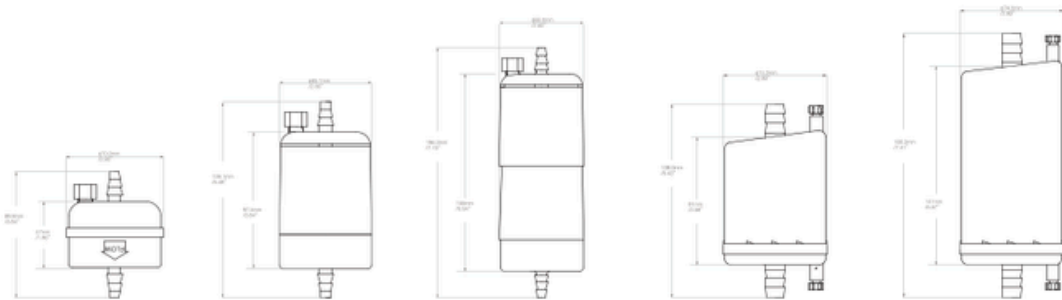




Dimensions



Item	KZ50	PKZ	STKZ	WSF	UCF-T
Diameter	φ71.9mm	φ94.5mm	φ74.0mm	φ128.0mm	φ130.0mm
Length	68.4mm	119mm	163mm	214/ 315/ 580/ 825mm	310/ 554/ 800mm
Inlet/Outlet	1" Sanitary Flange				
Vent/Drain	Luer Lock	6mm Hose Barb	M5	6mm Hose Barb	6mm Hose Barb



Item	92WM	WM	195WM	STBT1	STBT2
Diameter	φ70.0 mm	φ65.1 mm	φ66.0 mm	φ74.2 mm	φ74.2 mm
Length	89.8 mm	139.1 mm	196.3 mm	138.0 mm	188.3 mm
Inlet/Outlet	6-9mm Stepped hose barb			12mm Stepped hose barb	
Vent/Drain	1/8"NPT				



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Ordering Information

KZ50 SPSHR 0010 P

Capsule Code	Filtration Media Code	Retention Rating
KZ50	SPSHR	0010(0.1µm),0022(0.22µm),0045(0.45µm)
PKZ	APSBR	0022(0.22µm),0045(0.45µm),0065(0.65µm),0080(0.8µm),0120(1.2µm)
STKZ	DPSDDT	2210(0.22µm+0.1µm),2222(0.22µm+0.22µm),4522(0.45µm+
WSF		0.22µm),4545(0.45µm+0.45µm),6522(0.65µm+0.22µm),6545(0.65µm+0.45µm)
UCF-T	LHPVND	0022(0.22µm),0045(0.45µm),0065(0.65µm)
	LHPVHBR	0022(0.22µm),0045(0.45µm),0065(0.65µm)
92WM	LHPF	0022(0.22µm),0045(0.45µm)
WM	GPFL	0010(0.1µm),0022(0.22µm)
195WM	LPF	0010(0.1µm),0022(0.22µm),0045(0.45µm),0100(1µm),0500(5µm)
STBT1	APP	0010(0.1µm) to 2000(20µm)
STBT2	HPP	0010(0.1µm) to 2000(20µm)
	PFS A2	0020(0.2µm) to 150H(150µm)
	LGFP	0010(0.1µm) to 0500(5µm)

Length* -P

05=5"

10=10"

20=20"

30=30"

* Length only applicable to WSF and UCF-T Capsule Filter



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