



Filtration Separation **Purification**











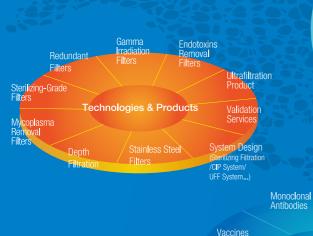


Solutions for bio-pharmaceutical processes. Cobetter provides over 6,200+ process validation

and provided over 2,500+ technical analysis reports for customers in the microelectronic, chemical



Membrane Manufacturing



AVL Center

Recombinant Protein

Application

Filter Manufacturing

Housing Manufacturing



Semiconductor Ultra-pure water Degassing Membrane 66500 SQM, 2025

C12 Biopharma Filtration Product Manufacturing Center 60000 SQM 2025.6

Penicillin-streptomycin

C8 Cobetter R&D Headquarters

Blood Product

C9 ECMO Membrane Manufacturing Center

C10 Virus Clearance Validation Services Center Newtron Bioassay Co.,Ltd



- C1 Factory
 Membrane Filter Manufacturing
 9400 SQM
- C2 Factory
 Depth Filter Manufacturing
 9000 SQM
- Semiconductor & Biological Filter Manufacturing 13500 SQM
- C4 Factory
 Stainless Filter Manufacturing
 & Fluoroplastics Resurtech Manufacturing
 & Housing Manufacturing
 28000 SOM
- Application & Validation Laboratory Center Biopharm Single-Use Manufacturing 41,000 SQM
- C6 Living Quarters 33000 SQM









1000+ Equipments 480⁺ sop 350⁺ Engineers





Life & Science Validation Center

- Bacterial Challenge Test : Retention tests for Mycoplasma, B.diminuta, Serratia marcescens, lactobacillus, saccharomycetes, colibacillus and other microorganisms **Chemical Analysis**: Extractable & Leachables, Chemical Compatibility test UV/PDA-HPLC: UV/PDA scanning to determine extractables and leachables
 - UPLC/MS: Determine the nonvolatile and semivolatile of extractable & leachables quantitatively and qualitatively
 - GC-MS: Determine volatile/semi-volatile status of extractables and leachables quantitatively and qualitatively
 - IC/ICP-MS: Analyze alkalis, halogen family, acid radicals, ammonia, and other ions quantitatively
 - NVR: Analyze non-volatile extractable from water, IPA, Acetone and other volatile solutions quantitatively
 - FTIR: Analyze polymers and oligiomers in non-volatile extractable & leachables qualitatively
 - SEM/EDS: Analyze filter membrane defect, appearance, and impurities. SEM analysis of chemical compatibility

Advanced Quality Control Methods

Ensure that Every Product is Safe, Reliable, and Stable

Quality Assurance is based on the Quality Assurance System

- Focus on the Production Process

Implement 4M Quality Management Concept

- Process and System Simultaneous Completion

All Products are based on the QC Project Table

- Produced as per SOP for Stable Production









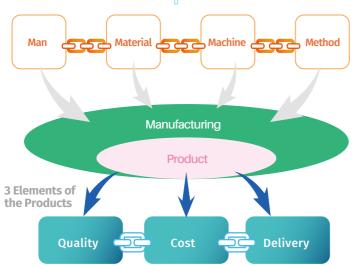




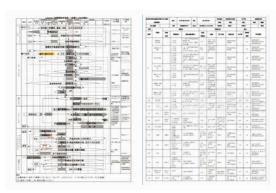




Input



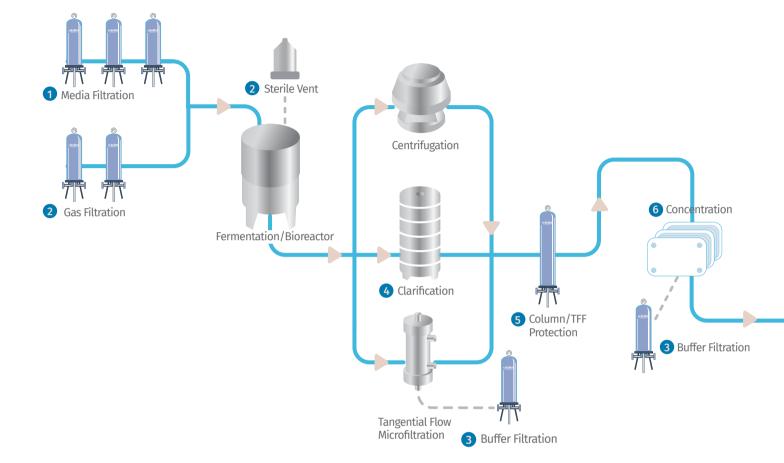
Output







Flow Diagram of Bioprocess





Prefiltration

-Purcise PECL -PES

Sterilizing-grade Filtration

-Purcise SLT -PES

Mycoplasma Removal Filtration

-Purcise MEC -PES



-Safesure AFBB -Hydrophobic PTFE -Safesure AFM -Hydrophobic PTFE -Aegivast ACE -Hydrophobic PTFE -Corevital APB -Hydrophobic PVDF



Prefiltration

-Safetect PME -PES

-Purcise PLE - PES

-Purcise PAF -PES

-Corevital PMD -PVDF

-Corevital PDF -PVDF

-Corevital PND -PVDF

Sterilizing-grade Filtration

-Purcise SAF - PES

-Corevital SND -PVDF

-Corevital SMD -PVDF

4

Clarification Filtration

-Roheap CSD -Claricap CSD



Column / TFF Protection

Clarification

-Greclary CHV -Glass Fiber

-Excesal CHE -PP

-Excesal CHT -PP

Bioburden Reduction and Particle Control

-Purcise PLE - PES

-Safetect PME -PES

-Corevital PMD -PVDF

-Corevital PDF - PVDF

-Corevital PND -PVDF

Sterilizing-grade Filtration

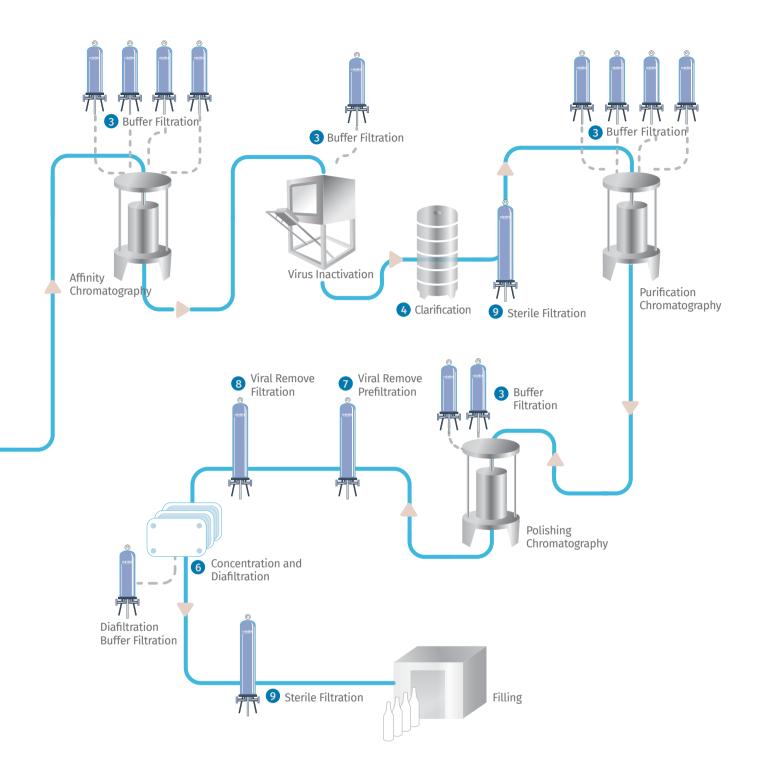
-Purcise SLE - PES



Concentration and Purification

-Consieve UET -PES

-Consieve UFC -RC





Viral Remove Prefiltration

-Corevital SMD -PVDF -Viruclear PNY -Nylon

-Viruclear PDT -Depth Filter



Virus Clearance

-Viruclear VF PLUS -PES -Viruclear VF PLUS X -PES

-Viruclear RC H-RC

-Viruclear RC -RC

Sterile Filtration

-Purcise SLE -PES

-Purcise SLT -PES

-Purcise SBV -PES

-Purcise SEAS -PES

-Corevital SND -PVDF

-Corevital SVLB -PVDF

-Corevital SMD -PVDF

Bricap & Brisip Capsule Filter Series



Bricap/BriScale Disc Capsule Filters

Format	Diameter	Max. Length	Inlet/Outlet	Vent
Bricap V50D	64mm	70mm	– 6-13 mm (1/4"-1/2") Stepped Hose Barb –	N/A
Bricap V50A	73mm		— о-із Піпі (1/4 -1/2) Stepped Hose Barb —	N/A
Bricap V42	56mm	47mm	6-9 mm (1/4"-3/8") Stepped Hose Barb	N/A
BriScale A50	64mm	71mm	6-13mm(1/4"-1/2") Stepped Hose Barb	Luer lock



Bricap C/D Series Capsule Filters

Format	Diameter	Max. Length	Inlet/Outlet	Vent/Drain
Bricap C01		106mm	14 mm (9/16") Sanitary Flange 19 mm (3/4") Sanitary flange	
Bricap CO2	64mm	136mm		6mm Hose Barb
Bricap C03		173mm	6-13 mm (1/4"-1/2") Stepped Hose Barb 9.6mm (3/8") Hose Barb	



Brisip Series Capsule Filters

Format	Diameter	Max. Length	Inlet/Outlet	Vent/Drain
Brisip SP3	81mm	159mm	38 mm (1 1/2") Sanitary Flange	6mm Hose Barb Stäubli



Bricap L Series Capsule Filters

Format	Diameter	Max. Length	Inlet/Outlet	Vent/Drain
Bricap L02		142mm		
Bricap L03		190mm	14 mm (9/16") Sanitary Flange 19 mm (3/4") Sanitary flange	
Bricap L05	 89mm	233mm	38 mm (11/2") Sanitary Flange	6mm Hose Bar
Bricap L10		347mm	13 mm (1/2") Hose Barb 14 mm (9/16") Hose Barb	
Bricap L20		585mm	16 mm (5/8") Hose Barb 19 mm (3/4") Hose Barb	
Bricap L30		838mm	25 mm (1") Hose Barb	



Bricap T Series Capsule Filters

ruillat	Diameter	Max. Lengui	met/Outlet	dauge Port	venit/Diam
Bricap T10		354mm	38 mm (1 1/2")	14 mm (9/16") Sanitary Flange	
Bricap T20	89mm /152mm	592mm	Sanitary Flange 19mm (3/4")	38 mm (1 1/2") Sanitary Flange	
Bricap T30		845mm	Hose Barb	No top port	



Female Luer Lock Inlet



P Male Luer Lock Outlet



K 14 mm (9/16") Sanitary Flange

T 19 mm (3/4") Sanitary Flange



Sanitary Flange
31 mm (1 1/4")
Sanitary Flange
38 mm (1 1/2")
Sanitary Flange



Y 9.6 mm (3/8") Single Stepped Hose Barb

H 13 mm (1/2") Single Stepped Hose Barb

14 mm (9/16") Single Stepped Hose Barb

X 16 mm (5/8") Single Stepped Hose Barb

19 mm (3/4") Single Stepped Hose Barb

D 25 mm (1") Single Stepped Hose Barb



B 6-13 mm (1/4"-1/2") Multiple Stepped Hose barb

6-9 mm (1/4"-3/8") Multiple Stepped Hose barb



S-S

38 mm (1 1/2")
Sanitary Flange
(Only for T -Type Capsule)





Filter Cartridge

Nominal Length	Adaptor	Seal Material
	226/Fin	Silicone
10"	226/Flat	EPDM
20"	222/Fin	Fluoroelastomer
30"	222/Flat	FEP/ PFA encapsulated O-rings
40"	Double Open End	





Catalog

Sterilizing-Grade Filter Series	Prefiltration and Bioburden Reduction	on Series
Purcise SAF Filter P 11 Hydrophilic Sterilizing-Grade Filter with High Flow Rate	Safetect PME Filter Hydrophilic Filter with High Dirt-Holding Capacity	
Purcise SLE Filter P 13 Hydrophilic Sterilizing-Grade Filter with Low Protein Adsorption	Purcise PLE Filter Hydrophilic Filter with Low Protein Adsorption	
Purcise SLEB Filter P 17 Hydrophilic Sterilizing-Grade Filter with Low Protein Adsorption	Purcise PAF Filter Hydrophilic Filter with High Flow Rate	
Purcise SLTS Filter Sterilizing-Grade Filter with Low Adsorption	Purcise PEHS Filter Hydrophilic Filter with High Flow Rate	
Purcise SBVS Filter P 23 Sterilizing-Grade Filter	Purcise PEAB Filter Hydrophilic Filter with High Flow Rate	
Purcise SEAS Filter P 27 Sterilizing-Grade Filter	Purcise PECL Filter Hydrophilic Filter with High Flow Rate	
Mycoplasma Removal Filter Series	Sterilizing-Grade Filter Series	
Purcise MLE Filter Hydrophilic Filter with High Mycoplasma Retention Rate	Corevital SND Filter Hydrophilic Sterilizing-Grade Filter with Low Protein Adsorption	
Purcise MEC Filter P 33 Hydrophilic Filter with High Mycoplasma	Corevital SMD Filter Hydrophilic Sterilizing-Grade Filter with High Throughput and Low Protein Adsorption	
	Corevital SVLB Filter	



Prefiltration and Bioburden Reduction Series

Corevital PMDS Filter
Hydrophilic Filter with
Low Protein Adsorption

Corevital PDFS Filter
Hydrophilic Filter with
Low Protein Adsorption

Corevital PNDS Filter P 69
Hydrophilic Filter with
High Throughput and
Low Protein Adsorption

Mycoplasma Removal Filter Series

Corevital MMDA Filter P 73
Hydrophilic Filter with
High Mycoplasma Retention Rate

Sterilizing-Grade Filter Series

Safesatable SHBB Filter P 77
Hydrophilic Sterilizing-Grade Filter

Gas Filtration Series

Corevital APB Filter
Gamma-Resistant Hydrophobic Filter

Safesure AFBB Filter
Hydrophobic Filter

Safesure AFM Filter
Hydrophobic Sterilizing-Grade Filter with
High Retention Rate and High Throughput

Aegivast ACE Filter

P 81

P 84

P 87

P 87

P 87

P 87

P 91

Clarification Filter Series

Excesal CHT Filter Clarification Filter with High Dirt-Holding Capacity	
Excesal CHE Filter Clarification Filter with High Retention Rate	
Greclary CHV Filter High Throughput Filter	



Sterilizing-Grade Filter Series

Purcise SAF Filter Hydrophilic Sterilizing-Grade Filter with High Flow Rate

PES membrane with asymmetric pore size provides high dirt-holding capacity, realizing the combination of high throughput and high loading capacity.

Features

High loading and throughput Reliable retention of bacteria and particles Extensive chemical compatibility

Typical Applications

Buffer filtration, process fluids sterile filtration Pre-column/ultra-filtration protection Filtration of intermediate products/stock solutions Filtration of terminal products

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	SAFN(0.2 µm)	SAFS(0.45/0.2 μm)	SAFH(0.65/0.2 μm)
A - Standard Cartridge (10")	$0.55\mathrm{m}^2$	0.55 m ²	$0.55\mathrm{m}^2$
H - High Area Cartridge 1 (10")	$0.8{\rm m}^2$	0.8 m ²	0.8 m ²
L - High Area Cartridge 2 (10")	1.04 m ²	$1.04\mathrm{m}^2$	1.04 m ²

Materials of Construction

Membrane	Hydrophilic polyethersulfone (PES)
Support	Polypropylene (PP)
Core/Cage/End Caps	Polypropylene (PP)
Cartridge End Cap Inserts	Polybutylene terephthalate (PBT)
	(Cartridge exclusive)
Cartrdige End Cap O-rings	Silicone / EPDM / Fluoroelastomer /
	PFA encapsulated O-rings
Capsule Housing	Polypropylene (PP)
Capsule Vent O-rings	Silicone
SP3 Capsule Port Insert	316L Stainless Steel
SP3 Capsule Housing	Polyetherimide (PEI)
SP3 Capsule O-rings	Silicone

Maximum Differential Pressure

A - Standard Cartridge/	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
H - High Area Cartridge 1	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
L - High Area Cartridge 2	Forward: 0.55 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
0 1	Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C
Capsule	Reverse: 0.21 MPa @ 25 °C

Integrity Test Standards

Standard - 10inch (0.55m²)	Bubble Point @20 °C≥ 0.32 MPa, air, wetted with water
	Air Diffusion @20 °C≤28 ml/min @0.275 MPa, wetted with water
Q Series - 10inch (0.55m²)	Bubble Point @20 °C≥ 0.39 MPa, air, wetted with water
	Air Diffusion @20 °C≤28 ml/min @0.275 MPa, wetted with water

Sterilization

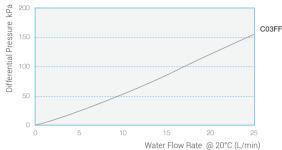
A - Standard Cartridge/ H - High Area Cartridge 1	Can be steam sterilized for 30 minutes at 135 °C with 50 cycles (< 30 kPa)
	Can be autoclaved 50 cycles for 30 minutes at 130°C
L Lligh Argo Cortridge 2	Can be steam sterilized for 30 minutes at 135 °C with 30 cycles (< 30 kPa)
L - High Area Cartridge 2	Can be autoclaved 30 cycles for 30 minutes at 130°C
	Autoclavable capsules only. Can be autoclaved 25 cycles for 30 minutes at 130°C, (Can not be steam sterilized in-line)
Capsule	Gamma compatible capsules: Can be sterilized by gamma irradiation at 25-45 kGy or can be autoclaved 5 cycles for 60 minutes at 126 °C. (Can not be steamed in-line)
	Sterile capsule: Can be sterilized by gamma irradiation at 25-45 kGy
Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121°C	

Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization

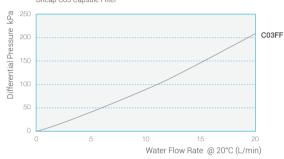


Flow Rates

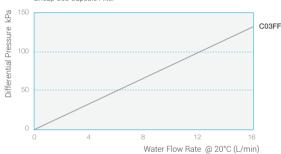




Water Flow Rate — Cobetter Purcise SAF 0.45/0.2 μm Membrane Bricap C03 Capsule Filter



Water Flow Rate — Cobetter Purcise SAF 0.65/0.2 μm Membrane Bricap C03 Capsule Filter



Water Flow Rate — Cobetter Purcise SAF Series
10inch Filter Cartridge

SAFS SAFH
SAFN

10

10

10

10

10

10

10

20

30

40

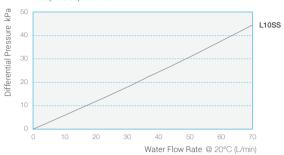
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60

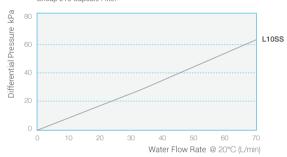
70

Water Flow Rate @ 20°C (L/min)

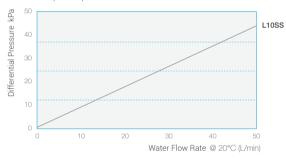
Water Flow Rate — Cobetter Purcise SAF 0.2 µm Membrane Bricap L10 Capsule Filter



Water Flow Rate — Cobetter Purcise SAF 0.45/0.2 μm Membrane Bricap L10 Capsule Filter



Water Flow Rate — Cobetter Purcise SAF 0.65/0.2 μm Membrane Bricap L10 Capsule Filter



Regulatory Compliance

- \cdot Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- · Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3(b)(6).
- \cdot Retention of 10 7 cfu/cm 2 Brevundimonas diminuta (ATCC 19146) according to ASTM F838
- · Aqueous extraction from a cartridge contains less than 0.25EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>.
- \cdot Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- · Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- $\cdot \ \mathsf{Based} \ \mathsf{on} \ \mathsf{the} \ \mathsf{current} \ \mathsf{information} \ \mathsf{from} \ \mathsf{our} \ \mathsf{suppliers}, \ \mathsf{all} \ \mathsf{components} \ \mathsf{used} \ \mathsf{in} \ \mathsf{the} \ \mathsf{manufacture} \ \mathsf{of} \ \mathsf{this} \ \mathsf{product} \ \mathsf{are} \ \mathsf{animal-free}.$

Sterilizing-Grade Filter Series

Polyethersulfone (PES) material, optimal filter for final filtration



Features

Low adsorption and low leachables Unwetted filter can be steam sterilized directly

Typical Applications

Sterile filtration of terminal products Sterile filtration of biological products, blood and serum products Sterile filtration of vaccine products Pre-column/ultra-filtration protection Filtration of intermediate products/stock solutions

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	SLEN(0.2 µm)	SLES(0.45/0.2 μm)	SLEH(0.65/0.2 μm)	SLEL(0.8/0.2 μm)	SLEC(1.2/0.2 μm)
A - Standard Cartridge (10")	$0.55{\rm m}^2$	$0.55\mathrm{m}^2$	$0.55\mathrm{m}^2$	0.55m^2	0.55m^2
H - High Area Cartridge 1 (10")	0.8m^2	0.8m^2	0.8m^2	0.8m^2	0.8m^2
L - High Area Cartridge 2 (10")	1.04 m ²	1.04 m ²	1.04 m ²	$1.04\mathrm{m}^2$	1.04 m ²

Materials of Construction

Membrane	Hydrophilic polyethersulfone (PES)
Support	Polypropylene (PP)
Core/Cage/End Caps	Polypropylene (PP)
Cartridge End Cap Inserts	Polybutylene terephthalate (PBT)
	(Cartridge exclusive)
Cartrdige End Cap O-rings	Silicone / EPDM / Fluoroelastomer /
	PFA encapsulated O-rings
Capsule Housing	Polypropylene (PP)
Capsule Vent O-rings	Silicone
SP3 Capsule Port Insert	316L Stainless Steel
SP3 Capsule Housing	Polyetherimide (PEI)
SP3 Capsule O-rings	Silicone

Maximum Differential Pressure

A - Standard Cartridge/	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C		
H - High Area Cartridge 1	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C		
	Forward: 0.55 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C		
L - High Area Cartridge 2	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C		
Capsule	Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C		
	Reverse: 0.21 MPa @ 25 °C		

Integrity Test Standards

Standard - 10inch	Bubble Point @20 °C≥ 0.32 MPa, air, wetted with water		
(0.55m²)	Air Diffusion @20 °C≤28 ml/min @0.275 MPa, wetted with water		
Q Series - 10inch	Bubble Point @20 °C≥ 0.39 MPa, air, wetted with water		
(0.55m²)	Air Diffusion @20 °C≤28 ml/min @0.275 MPa, wetted with water		

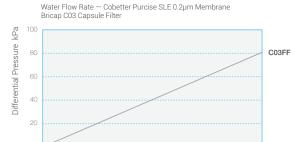
Sterilization

A - Standard Cartridge/ H - High Area Cartridge 1	Can be steam sterilized for 30 minutes at 135 °C with 50 cycles (< 30 kPa)
	Can be autoclaved 50 cycles for 30 minutes at 130°C
L Lligh Area Cortridge 2	Can be steam sterilized for 30 minutes at 135 °C with 30 cycles (< 30 kPa)
L - High Area Cartridge 2	Can be autoclaved 30 cycles for 30 minutes at 130°C
Capsule	Autoclavable capsules only. Can be autoclaved 25 cycles for 30 minutes at 130°C, (Can not be steam sterilized in-line)
	Gamma compatible capsules: Can be sterilized by gamma irradiation at 25-45 kGy or can be autoclaved 5 cycles for 60 minutes at 126 °C. (Can not be steamed in-line)
	Sterile capsule: Can be sterilized by gamma irradiation at 25-45 kGy
	Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121°C

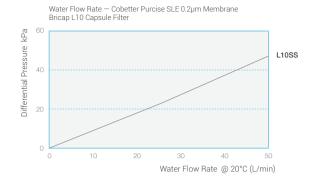
Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization

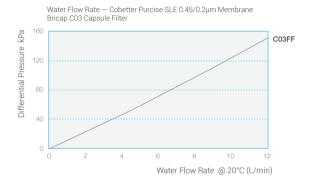


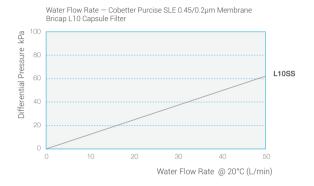
Flow Rates

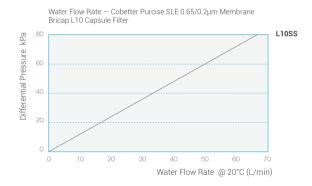


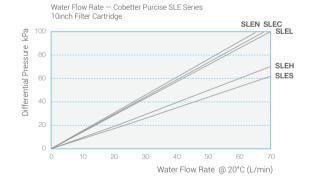
Water Flow Rate @ 20°C (L/min)











Regulatory Compliance

- $\cdot \ \, \text{Effluent meets the USP} \\ \text{788> requirement of particulate matter in large volume injection}.$
- $\cdot \ \, \text{Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3 (b) (6).}$
- · Retention of 107 cfu/cm² Brevundimonas diminuta (ATCC 19146) according to ASTM F838
- · Aqueous extraction from a cartridge contains less than 0.25EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>.
- · Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- · Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- $\cdot \ \, \text{Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.}$

Purcise SAF/SLE Filter

Ordering Information

Filter Cartridge Cartridge Format Membrane Type Length Code O-ring Material Category SAFN SAF 0.2µm A Standard Cartridge 02 2.5 inch n DOF s Silicone Blank Standard Pharmaceutical 5 inch H H - High Area Cartridge(0.69-0.8m²) **SAFS** SAF 0.45/0.2µm 05 2 226 / Flat **FPDM** Grade **SAFH** SAF 0.65/0.2µm 7 226 / Fin V Fluoroelastomer L - High Area Cartridge(1.0-1.2m²) 10 10 inch 3 222 / Flat SLEN SLE 0.2µm 20 inch P FEP/PFA encapsulated 8 222 / Fin **SLES** SLE 0.45/0.2 µm **30** 30 inch O-rings 6 222 / 3-Flange **SLEH** SLE 0.65/0.2 μm **40** 40 inch bayonet / Fin **SLEL** SLE 0.8/0.2 µm **SLEC** SLE 1.2/0.2 µm **Bricap C Series Capsule Filter** Quantity/ Membrane Type Sterilization Category Housing Type Capsule Format Inlet/Outlet Package Bricap C01 Blank Standard 19 mm(3/4") Sanitary Flange 1 1 /pkg SAFN SAF 0.2µm A Autoclavable Blank Standard Pharmaceutical Bricap C02 C02 14 mm (9/16") Sanitary Flange Transparent SAF 0.45/0.2µm SAFS G Gamma Compatible Grade C03 Bricap C03 31 mm (1 1/4") Sanitary Flange SAFH SAF 0.65/0.2µm Sterile 14 mm (9/16") Hose Barb **SLEN** SLE 0.2µm Cleansteam Bag 13 mm (1/2") Hose Barb н SLFS SLE 0.45/0.2 µm Sterile Package 9.6 mm (3/8") Hose Barb SLEH SLE 0.65/0.2 µm 3.2 mm (1/8") Hose Barb SLEL SLE 0.8/0.2 μm 6-13 mm (1/4"-1/2") Stepped SLEC SLE 1.2/0.2 μm Hose Barb (No Filling Bell) 6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell (Outlet only) **Bricap D Series Capsule Filter** Capsule Format Inlet/Outlet D01 Bricap D01 **B** 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell) 6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell (Outlet only) **Bricap L Series Capsule Filter** Housing Type Inlet/Outlet Capsule Format S 38 mm (1 1/2") Sanitary Flange Blank Standard L02 Bricap L02 Transparent Bricap L03 L03 т 19 mm (3/4") Sanitary Flange L05 Bricap L05 K 14 mm (9/16") Sanitary Flange L10 Bricap L10 D 25 mm (1") Hose Barb 19 mm (3/4") Hose Barb 120 Bricap L20 М L30 Bricap L30 16 mm (5/8") Hose Barb 14 mm (9/16") Hose Barb 13 mm (1/2") Hose Barb 9.6 mm (3/8") Hose Barb **Bricap T Series Capsule Filter** Capsule Format Inlet/Outlet Gauge Port Type **SS** 38 mm (1 1/2") Sanitary 38 mm (1 1/2") T10 Bricap T10

Bricap T20

Bricap T30

T20

T30

Flange Inlet & Outlet

SM 38 mm (1 1/2") Sanitary

Flange Inlet & 19 mm

(3/4") Hose Barb Outlet

Sanitary Flange

Sanitary Flange

Without Gauge Port

19 mm (3/4")

Bricap HL Series Capsule Filter							
HL03 Bricap HL03 T 19 mm (3/4 HL05 Bricap HL05 V 14 mm (9/1 HL10 Bricap HL10 D 25 mm (1") HL20 Bricap HL20 H 13 mm (1/2 HL30 Bricap HL30 Y 9.6 mm (3/8 Bricap HT Series Capsule Filter Capsule Format Inlet/Outlet HT02 Bricap HT02 SS 38 mm (1 1/2 HT03 Bricap HT03 SM 38 mm (1 1/2	Hose Barb ') Hose Barb ") Hose Barb ') Sanitary Flange ') Sanitary Flange Inlet '4") Hose Barb Outlet Sanitary Flange	LSAFS LS/ HSAFH HS LSAFH LS/ HSLEN HS LSLEN LSI HSLES HS LSLEH HS LSLEH HS LSLEH HS LSLEL HS HSLEL HS HSLEL HS	AF 0.2 µm AF 0.2 µm AF 0.45/0.2 µm AF 0.45/0.2 µm AF 0.65/0.2 µm AF 0.65/0.2 µm AF 0.65/0.2 µm	Sterilization A Autoclavable G Gamma Compatible S Sterile C Cleansteam Bag Sterile Package	Quantity/ Package 1 1 /pkg		Pharmaceutical Grade
Brisip SP3 Series Capsule Filter	,						
Capsule Format Inlet/Outlet SP3 Brisip SP3 S 38 mm (1 1/2*) Sanitary Flange	Membrane Type SAFN SAF 0.2 SAFS SAF 0.4 SAFH SAF 0.6 SLEN SLE 0.2 SLES SLE 0.4 SLEH SLE 0.6 SLEL SLE 0.8 SLEC SLE 1.2	um 5/0.2µm 5/0.2µm um 5/0.2 µm 5/0.2 µm /0.2 µm	and drain valve T Both using quid (compatible wi	nm hose barb ng quick coupling th Stäubli connector), e using 6 mm hose barb	Quantity/ Package 1 1 /pkg	Category Blank Standard Q	P Pharmaceutical Grade
BA 6-13 mm (1/4"- Barb Inlet and 0 (Outlet with Filli	utlet (No Filling Bell) 1/2") Stepped Hose Outlet ng Bell)	SAFH SA SLEN SLE SLES SLE	F 0.2µm F 0.45/0.2µm F 0.65/0.2µm		Quantity/ Package 1 1 /pkg	Category Blank Standard Q	P Pharmaceutical Grade
	uer lock inlet and er lock outlet		E 0.8/0.2 μm E 1.2/0.2 μm				
Syringe Filter Format Inlet/Outlet V25 Bricap SFV25 CP Female	uer lock inlet and						

Sterilizing-Grade Filter Series

Purcise SLEB Filter

Hydrophilic Sterilizing-Grade Filte Low Protein Adsorption

Sterile filtration products specifically designed for complex fluids.



Features

Low adsorption and low leachables Unwetted filter can be steam sterilized directly

Typical Applications

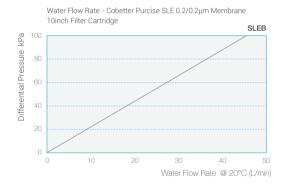
Final sterile filtration Sterile filtration of complex fluids, liposome Sterile filtration of emulsion, high viscous fluids

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	SLEB(0.2/0.2 μm)
A - Standard Cartridge (10")	0.55m^2
H - High Area Cartridge 1 (10")	$0.8{\rm m}^2$
L - High Area Cartridge 2 (10")	1.04 m ²



Materials of Construction

Membrane	Hydrophilic polyethersulfone (PES)
Support	Polypropylene (PP)
Core/Cage/End Caps	Polypropylene (PP)
Cartridge End Cap Inserts	Polybutylene terephthalate (PBT)
	(Cartridge exclusive)
Cartrdige End Cap O-rings	Silicone / EPDM / Fluoroelastomer /
	PFA encapsulated O-rings
Capsule Housing	Polypropylene (PP)
Capsule Vent O-rings	Silicone
SP3 Capsule Port Insert	316L Stainless Steel
SP3 Capsule Housing	Polyetherimide (PEI)
SP3 Capsule O-rings	Silicone

Maximum Differential Pressure

A - Standard Cartridge/	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
H - High Area Cartridge 1	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
L Lieb Aves Ostrides O	Forward: 0.55 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
L - High Area Cartridge 2	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
0	Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C
Capsule	Reverse: 0.21 MPa @ 25 °C

Integrity Test Standards

Standard - 10inch	Bubble Point @20 °C \geq 0.39 MPa, air, wetted with water
$(0.55m^2)$	Air Diffusion @20 °C≤ 28 ml/min @0.275 MPa, wetted with water



Sterilization

A - Standard Cartridge/ H - High Area Cartridge 1	Can be steam sterilized for 30 minutes at 135 °C with 50 cycles (< 30 kPa)
	Can be autoclaved 50 cycles for 30 minutes at 130°C
L Lligh Argo Cortridge 2	Can be steam sterilized for 30 minutes at 135 °C with 30 cycles (< 30 kPa)
L - High Area Cartridge 2	Can be autoclaved 30 cycles for 30 minutes at 130°C
Capsule	Autoclavable capsules only. Can be autoclaved 25 cycles for 30 minutes at 130°C, (Can not be steam sterilized in-line)
	Gamma compatible capsules: Can be sterilized by gamma irradiation at 25-45 kGy or can be autoclaved 5 cycles for 60 minutes at 126 °C. (Can not be steamed in-line)
	Sterile capsule: Can be sterilized by gamma irradiation at 25-45 kGy
	Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121 °C

Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization

Regulatory Compliance

- · Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- · Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3(b)(6).
- · Retention of 107 cfu/cm2 Brevundimonas diminuta (ATCC 19146) according to ASTM F838
- · Aqueous extraction from a cartridge contains less than 0.25EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>.
- · Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- · Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- \cdot Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.



Purcise SLEB Filter

Ordering Information

Filter Cartridge Cartridge Format Membrane Type Length Code O-ring Material **SLEB** SLE 0.2/0.2µm A Standard Cartridge **02** 2.5 inch n DOF s Silicone Pharmaceutical H - High Area Cartridge(0.69-0.8m²) 05 5 inch 2 226 / Flat FPDM Grade 7 226 / Fin V Fluoroelastomer 10 10 inch L - High Area Cartridge(1.0-1.2m²) 3 222 / Flat 20 20 inch P FEP/PFA encapsulated 8 222 / Fin **30** 30 inch 0-rings 6 222 / 3-Flange **40** 40 inch bayonet / Fin **Bricap C Series Capsule Filter** Quantity/Package Inlet/Outlet Membrane Type Sterilization Housing Type Capsule Format Bricap C01 Blank Standard 19 mm(3/4") Sanitary Flange **SLEB** SLE 0.2/0.2µm Autoclavable 1 1 /pkg **Pharmaceutical** Bricap C02 C02 14 mm (9/16") Sanitary Flange Transparent G Gamma Compatible Grade C03 Bricap C03 31 mm (1 1/4") Sanitary Flange Sterile 14 mm (9/16") Hose Barb Cleansteam Bag 13 mm (1/2") Hose Barb н Sterile Package 9.6 mm (3/8") Hose Barb 3.2 mm (1/8") Hose Barb 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell) 6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell (Outlet only) **Bricap D Series Capsule Filter** Capsule Format Inlet/Outlet D01 Bricap D01 **B** 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell) 6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell (Outlet only) **Bricap L Series Capsule Filter** Housing Type Inlet/Outlet Capsule Format \$ 38 mm (1 1/2") Sanitary Flange Blank Standard L02 Bricap L02 Transparent Bricap L03 19 mm (3/4") Sanitary Flange L03 т L05 Bricap L05 K 14 mm (9/16") Sanitary Flange L10 Bricap L10 D 25 mm (1") Hose Barb M 19 mm (3/4") Hose Barb L20 Bricap L20 L30 Bricap L30 16 mm (5/8") Hose Barb 14 mm (9/16") Hose Barb 13 mm (1/2") Hose Barb 9.6 mm (3/8") Hose Barb **Bricap T Series Capsule Filter** Capsule Format Inlet/Outlet Gauge Port Type **SS** 38 mm (1 1/2") Sanitary **S** 38 mm (1 1/2") T10 Bricap T10 T20 Bricap T20 Flange Inlet & Outlet Sanitary Flange **SM** 38 mm (1 1/2") Sanitary T30 Bricap T30 19 mm (3/4")

Flange Inlet & 19 mm

(3/4") Hose Barb Outlet

Sanitary Flange

N Without Gauge Port

Bricap HL Series Capsule Filter				
Capsule Format Inlet/Outlet HL02 Bricap HL02 S 38 mm (1 1/2") Sanitary Flange HL03 Bricap HL03 T 19 mm (3/4") Sanitary Flange V 14 mm (9/16") Hose Barb HL10 Bricap HL10 D 25 mm (1") Hose Barb HL20 Bricap HL20 H 13 mm (1/2") Hose Barb HL30 Bricap HL30 Y 9.6 mm (3/8") Hose Barb	Membrane Type HSLEB HSLE 0.2/0.2 μm LSLEB LSLE 0.2/0.2 μm	Sterilization A Autoclavable G Gamma Compatible S Sterile C Cleansteam Bag Sterile Package	Quantity/Package 1 1 /pkg	Pharmaceutical Grade
Bricap HT Series Capsule Filter				
Capsule Format HT02 Bricap HT02 HT03 Bricap HT05 HT10 Bricap HT05 HT20 Bricap HT20 HT30 Bricap HT30 SS 38 mm (1 1/2") Sanitary Flange SM 38 mm (1 1/2") Sanitary Flange Inlet and 19 mm (3/4") Hose Barb Outlet Gauge Port Type S 38 mm (1 1/2") Sanitary Flange T 19 mm (3/4") Sanitary Flange T 19 mm (3/4") Sanitary Flange N None				
Brisip SP3 Series Capsule Filter				
Capsule Format Inlet/Outlet Membrane Type SP3 Brisip SP3 S 38 mm (1 1/2") Sanitary Flange SLEB SLE 0.2/	X Vent valve using (compatible wit and drain valve T Both using quic (compatible wit	m hose barb g quick coupling h Stäubli connector), using 6 mm hose barb	Quantity/Package 1 1 /pkg	Pharmaceutical Grade
BriScale A50 Liquid Disc Filter Disc Filter Format Inlet/Outlet A50 BriScale A50 BB 6-13 mm (1/4"-1/2") Stepped Hose Barb Inlet and Outlet (No Filling Bell) BA 6-13 mm (1/4"-1/2") Stepped Hose Barb Inlet and Outlet (Outlet with Filling Bell) Bricap SFU Series Syringe Filter (No Vent)	Membrane Type SLEB SLE 0.2/0.2 μm	Sterilization A Autoclavable G Gamma Compatible S Sterile	Quantity/Package 1 1 /pkg	P Pharmaceutical Grade
Syringe Filter Format U13 Bricap SFU13 U25 Bricap SFU25 U33 Bricap SFU33 Bricap SFV Series Syringe Filter (With Luer Vent) Syringe Filter Format U25 Bricap SFV25 CP Female luer lock inlet and male luer lock inlet and male luer lock outlet				

Sterilizing-Grade Filter Series

Purcise SLTS FilterSterilizing-Grade Filter with Low Adsorption



Features

Low cytotoxicity Low adsorption

Typical Applications

Culture-medium sterile filtration

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	SLTS(0.45/0.2 μm)	SLTH(0.65/0.2 μm)	SLTL(0.8/0.2 μm)
A - Standard Cartridge (10")	$0.55\mathrm{m}^2$	0.55m^2	$0.55\mathrm{m}^2$

Materials of Construction

Membrane	Hydrophilic polyethersulfone (PES)
Support	Polypropylene (PP)
Core/Cage/End Caps	Polypropylene (PP)
Cartridge End Cap Inserts	Polybutylene terephthalate (PBT)
	(Cartridge exclusive)
Cartrdige End Cap 0-rings	Silicone/EPDM/Fluoroelastomer/
	PFA encapsulated O-rings
Capsule Housing	Polypropylene (PP)
Capsule Vent O-rings	Silicone

Maximum Differential Pressure

A - Standard Cartridge	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
Capsule	Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C
Сарзиіс	Reverse: 0.21 MPa @ 25 °C

Integrity Test Standards

Standard - 10inch	Bubble Point @20 °C≥ 0.34 MPa, air, wetted with water
(0.55m ²)	Air Diffusion @20 °C≤28 ml/min @0.275 MPa, wetted with water

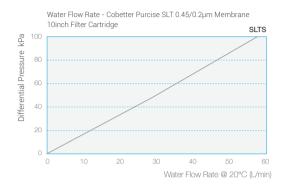
Sterilization

Can be steam sterilized for 30 minutes at 135 °C with 50 cycles (< 30 kPa)
Can be autoclaved 50 cycles for 30 minutes at 130°C
Autoclavable capsules only: Can be autoclaved 25 cycles for 30 minutes at 130°C, (Can not be steam sterilized in-line)
Gamma compatible capsules: Can be sterilized by gamma irradiation at 25-45 kGy or can be autoclaved 5 cycles for 60 minutes at 126 °C. (Can not be steamed in-line)
Sterile capsule: Can be sterilized by gamma irradiation at 25-45 kGy
Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121 °C

Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization



Water Flow Rate



Regulatory Compliance

- · Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- · Component materials meet the criteria for a "Non-fiber-releasing filter"as defined in 21 CFR 210.3(b)(6).
- · Retention of 107 cfu/cm2 Brevundimonas diminuta (ATCC 19146) according to ASTM F838
- · Aqueous extraction from a cartridge contains less than 0.25EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>.
- · Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- · Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- \cdot Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- · Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.

Sterilizing-Grade Filter Series

Purcise SBVS Filter Sterilizing-Grade Filter

High loading, low adsorption



Typical Applications

Animal vaccine filtration
Paclitaxel albumin solution filtration

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	SBVS(0.45/0.2 μm)
A - Standard Cartridge (10")	0.55 m ²

Maximum Operating Pressure

A - Standard Cartridge	0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
Capsule	0.55 MPa @ 25 °C, 0.10 MPa @ 80 °C

Materials of Construction

Membrane	Hydrophilic polyethersulfone (PES)
Support	Polypropylene (PP)
Core/Cage/End Caps	Polypropylene (PP)
Cartridge End Cap Inserts	Polybutylene terephthalate (PBT)
	(Cartridge exclusive)
Cartrdige End Cap O-rings	Silicone / EPDM / Fluoroelastomer /
	PFA encapsulated O-rings
Capsule Housing	PFA encapsulated O-rings Polypropylene (PP)
Capsule Housing Capsule Vent O-rings	
	Polypropylene (PP)
Capsule Vent O-rings	Polypropylene (PP) Silicone
Capsule Vent O-rings SP3 Capsule Port Insert	Polypropylene (PP) Silicone 316L Stainless Steel

Maximum Differential Pressure

Standard Cartridge	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
Capsule	Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C
	Reverse: 0.21 MPa @ 25 °C

Integrity Test Standards

Standard - 10inch	Bubble Point @20 °C≥ 0.39 MPa, air, wetted with water
$(0.55m^2)$	Air Diffusion @20 °C≤28 ml/min @0.275 MPa, wetted with water

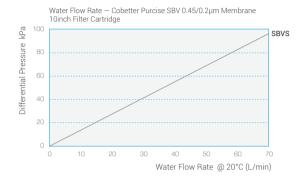
Sterilization

A - Standard Cartridge	Can be steam sterilized for 30 minutes at 135 °C with 50 cycles (< 30 kPa)
	Can be autoclaved 50 cycles for 30 minutes at 130°C
Capsule	Autoclavable capsules only: Can be autoclaved 25 cycles for 30 minutes at 130°C, (Can not be steam sterilized in-line) Gamma compatible capsules: Can be sterilized by gamma irradiation at 25-45 kGy or can be autoclaved 5 cycles for 60 minutes at 126 °C. (Can not be steamed in-line)
	Sterile capsule: Can be sterilized by gamma irradiation at 25-45 kGy
	Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121°C

Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization



Flow Rates



Regulatory Compliance

- \cdot Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- · Component materials meet the criteria for a "Non-fiber-releasing filter"as defined in 21 CFR 210.3(b)(6).
- · Retention of 10⁷ cfu/cm² Brevundimonas diminuta (ATCC 19146) according to ASTM F838
- · Aqueous extraction from a cartridge contains less than 0.25EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>.
- · Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- \cdot Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- · Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.

Purcise SLTS/SBVS Filter

Ordering Information

Filter Cartridge Cartridge Format Membrane Type Length Code O-ring Material **SLTS** SLT 0.45/0.2 μm A Standard Cartridge 02 2.5 inch n DOF s Silicone Pharmaceutical **SLTH** SLT 0.65/0.2 µm 05 5 inch 2 226 / Flat FPDM Grade 7 226 / Fin **SLTL** SLT 0.8/0.2 μm 10 10 inch V Fluoroelastomer **SBVS** SBV 0.45/0.2 μm 3 222 / Flat 20 inch P FEP/PFA encapsulated 8 222 / Fin **30** 30 inch O-rings 6 222 / 3-Flange **40** 40 inch bayonet / Fin **Bricap C Series Capsule Filter** Quantity/Package Capsule Format Inlet/Outlet Membrane Type Sterilization Bricap C01 19 mm(3/4") Sanitary Flange **SLTS** SLT 0.45/0.2 µm A Autoclavable 1 1 /pkg **Pharmaceutical** Bricap C02 C02 14 mm (9/16") Sanitary Flange **SLTH** SLT 0.65/0.2 µm G Gamma Compatible Grade 31 mm (1 1/4") Sanitary Flange C03 Bricap C03 **SLTL** SLT 0.8/0.2 µm Sterile ٧ 14 mm (9/16") Hose Barb Cleansteam Bag **SBVS** SBV 0.45/0.2 µm C 13 mm (1/2") Hose Barb н Sterile Package 9.6 mm (3/8") Hose Barb 3.2 mm (1/8") Hose Barb 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell) 6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell (Outlet only) **Bricap D Series Capsule Filter** Capsule Format Inlet/Outlet D01 Bricap D01 **B** 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell) 6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell (Outlet only) **Bricap L Series Capsule Filter** Inlet/Outlet Capsule Format Bricap L02 38 mm (1 1/2") Sanitary Flange L02 L03 Bricap L03 19 mm (3/4") Sanitary Flange Ť L05 Bricap L05 K 14 mm (9/16") Sanitary Flange L10 Bricap L10 D 25 mm (1") Hose Barb 19 mm (3/4") Hose Barb 120 Bricap L20 М L30 Bricap L30 16 mm (5/8") Hose Barb 14 mm (9/16") Hose Barb 13 mm (1/2") Hose Barb 9.6 mm (3/8") Hose Barb **Bricap T Series Capsule Filter**



Capsule Format

T10 Bricap T10

Bricap T20

Bricap T30

T20

T30

SS 38 mm (1 1/2") Sanitary

Flange Inlet & Outlet

SM 38 mm (1 1/2") Sanitary

Flange Inlet & 19 mm

(3/4") Hose Barb Outlet

Inlet/Outlet

Gauge Port Type

S 38 mm (1 1/2")

Sanitary Flange

Sanitary Flange

Without Gauge Port

19 mm (3/4")

Brisip SP3 Serie	es Capsule Filter						
							P
Capsule Format	Inlet/Outlet	Membrane Type		Vent and Drain Va	alves	Quantity/Package	
SP3 Brisip SP3	S 38 mm (1 1/2") Sanitary Flange	SLTS SLT 0.45/ SLTH SLT 0.65/ SLTL SLT 0.8/0 SBVS SBV 0.45,	0.2 μm .2 μm	and drain valv T Both using qu (compatible w	ng quick coupling ith Stäubli connector), e using 6 mm hose barb	1 1 /pkg	Pharmaceutical Grade
BriScale A50 Lie	quid Disc Filter						
							P
Disc Filter Format	Inlet/Outlet		Membra	nne Type	Sterilization	Quantity/Package	
A50 BriScale A50	BB 6-13 mm (1/4"-1/2" Barb Inlet and Outle BA 6-13 mm (1/4"-1/2" Barb Inlet and Outle (Outlet with Filling E	t (No Filling Bell) ') Stepped Hose et	SLTH S	SLT 0.45/0.2 µm SLT 0.65/0.2 µm SLT 0.8/0.2 µm SBV 0.45/0.2 µm	A AutoclavableG Gamma CompatibleS Sterile	1 1 /pkg	Pharmaceutical Grade
Bricap SFU Seri	es Syringe Filter (No	Vent)					
Syringe Filter Forma U13 Bricap SFU13 U25 Bricap SFU25 U33 Bricap SFU33	t Inlet/Outlet CP Female luer male luer lo						
Bricap SFV Seri	es Syringe Filter (Wi	th Luer Vent)					
Syringe Filter Forma	t Inlet/Outlet						
V25 Bricap SFV25	CP Female luer male luer loc						

Sterilizing-Grade Filter Series

Purcise SEAS Filter Sterilizing-Grade Filter

Sterile filtration specially developed for complex fluids



High loading 100% integrity testing in manufacturing Each filter is fully traceable with unique serial number

ISO 9001:2015 manufacturing facility



SEAS(0.45/0.2 μm)

A - Standard Cartridge (10") 0.55 m²

Materials of Construction

Intermediate product filtration

Features

Membrane	Hydrophilic polyethersulfone (PES)
Support	Polypropylene (PP)
Core/Cage/End Caps	Polypropylene (PP)
Cartridge End Cap Inserts	Polybutylene terephthalate (PBT)
	(Cartridge exclusive)
Cartrdige End Cap O-rings	Silicone / EPDM / Fluoroelastomer /
	PFA encapsulated O-rings
Capsule Housing	Polypropylene (PP)
Capsule Vent O-rings	Silicone
SP3 Capsule Port Insert	316L Stainless Steel
SP3 Capsule Housing	Polyetherimide (PEI)
SP3 Capsule O-rings	Silicone

Maximum Differential Pressure

A Ctondord Cortridge	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
A - Standard Cartridge	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
Capsule	Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C
оарзаіс	Reverse: 0.21 MPa @ 25 °C

Integrity Test Standards

Standard - 10inch	Bubble Point @20 °C≥ 0.375 MPa, air, wetted with water			
(0.55m²)	Air Diffusion @20 °C≤ 28 ml/min @0.275 MPa, wetted with water			

Sterilization

A - Standard Cartridge	Can be steam sterilized for 30 minutes at 135 °C with 50 cycles (< 30 kPa)		
A - Stariuard Cartiluge	Can be autoclaved 50 cycles for 30 minutes at 130°C		
Capsule	Autoclavable capsules only: Can be autoclaved 25 cycles for 30 minutes at 130°C, (Can not be steam sterilized in-line)		
	Gamma compatible capsules: Can be sterilized by gamma irradiation at 25-45 kGy or can be autoclaved 5 cycles for 60 minutes at 126 °C. (Can not be steamed in-line)		
	Sterile capsule: Can be sterilized by gamma irradiation at 25-45 kGy		
	Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121°C		

Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization

Regulatory Compliance

- Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- · Component materials meet the criteria for a "Non-fiber-releasing filter"as defined in 21 CFR 210.3(b)(6).
- · Retention of 107 cfu/cm2 Brevundimonas diminuta (ATCC 19146) according to ASTM F838
- Aqueous extraction from a cartridge contains less than 0.25EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>.
- \cdot Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- · Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- $\cdot \ \mathsf{Based} \ \mathsf{on} \ \mathsf{the} \ \mathsf{current} \ \mathsf{information} \ \mathsf{from} \ \mathsf{our} \ \mathsf{suppliers}, \mathsf{all} \ \mathsf{components} \ \mathsf{used} \ \mathsf{in} \ \mathsf{the} \ \mathsf{manufacture} \ \mathsf{of} \ \mathsf{this} \ \mathsf{product} \ \mathsf{are} \ \mathsf{animal-free}.$



Purcise SEAS Filter

Ordering informa	ation						
Filter Cartridge							
Cartridge Format A Standard Cartridg		brane Type SEA 0.45/0.2 μm	Length 02 2.5 inch 05 5 inch 10 10 inch 20 20 inch 30 30 inch 40 40 inch	Code 0 DOE 2 226 / Flat 7 226 / Fin 3 222 / Flat 8 222 / Fin 6 222 / 3-Fland bayonet / Fin	3		
Bricap C Series C	apsule Filter						
Housing Type Blank Standard K Transparent	Capsule Format C01 Bricap C01 C02 Bricap C02 C03 Bricap C03	Inlet/Outlet T 19 mm(3/4") Sanitary Flar K 14 mm (9/16") Sanitary Flar F 31 mm (11/4") Sanitary Fl V 14 mm (9/16") Hose Barb H 13 mm (1/2") Hose Barb Y 9.6 mm (3/8") Hose Barb L 3.2 mm (1/8") Hose Barb B 6-13 mm (1/4"-1/2") Stepl Hose Barb (No Filling Bell) A 6-13 mm (1/4"-1/2") Stepl Hose Barb with Filling Bell (Outlet only)	nge SEA ange lange	nbrane Type S SEA 0.45/0.2 μm	Sterilization A Autoclavable G Gamma Compatible S Sterile C Cleansteam Bag Sterile Package	Quantity/Package 1 1 /pkg Pharmaceutical Grade	
Dricen I Caries Ca	maula Filter						
Bricap L Series Ca Housing Type Blank Standard K Transparent	Capsule Format L02 Bricap L02 L03 Bricap L03 L05 Bricap L05 L10 Bricap L10 L20 Bricap L20 L30 Bricap L30	Inlet/Outlet S 38 mm (1 1/2") Sanitary Flat T 19 mm (3/4") Sanitary Flat K 14 mm (9/16") Sanitary Flat D 25 mm (1") Hose Barb M 19 mm (3/4") Hose Barb X 16 mm (5/8") Hose Barb V 14 mm (9/16") Hose Barb H 13 mm (1/2") Hose Barb Y 9.6 mm (3/8") Hose Barb	nge				
Bricap T Series Ca	apsule Filter						
Capsule Format T10 Bricap T10 T20 Bricap T20 T30 Bricap T30	Inlet/Outlet SS 38 mm (1 1/2") Flange Inlet & O SM 38 mm (1 1/2") Flange Inlet & 19 (3/4") Hose Bark	utlet Sanitary Flang Sanitary T 19 mm (3/4") 9 mm Sanitary Flang	e e				

Mycoplasma Removal Filter Series

Purcise MLE Filter Hydrophilic Filter with High Mycoplasma Retention Rate



Features

Double-layer design Reliable retention of mycoplasma, bacteria and particles Extensive chemical compatibility Low leachables

Typical Applications

Typical mycoplasma removal applications Removal of mycoplasma in buffer solution Filtration of intermediate products/ stock solutions Sterile filtration of terminal products

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	MLEB(0.2/0.1 μm)	MLES(0.45/0.1 μm)
A - Standard Cartridge (10")	$0.55\mathrm{m}^2$	0.55 m ²
H - High Area Cartridge 1 (10")	0.8m^2	$0.8{\rm m}^2$
L - High Area Cartridge 2 (10")	$1.04\mathrm{m}^2$	$1.04\mathrm{m}^2$

Materials of Construction

Membrane	Hydrophilic polyethersulfone (PES)
Support	Polypropylene (PP)
Core/Cage/End Caps	Polypropylene (PP)
Cartridge End Cap Inserts	Polybutylene terephthalate (PBT)
	(Cartridge exclusive)
Cartrdige End Cap O-rings	Silicone / EPDM / Fluoroelastomer /
	PFA encapsulated O-rings
Capsule Housing	Polypropylene (PP)
Capsule Vent O-rings	Silicone
Capsule Vent O-rings SP3 Capsule Port Insert	Silicone 316L Stainless Steel
SP3 Capsule Port Insert	316L Stainless Steel

Maximum Differential Pressure

A - Standard Cartridge/	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
H - High Area Cartridge 1	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
L Lligh Aran Cortridge O	Forward: 0.55 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
L - High Area Cartridge 2	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
Caracida	Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C
Capsule	Reverse: 0.21 MPa @ 25 °C

Integrity Test Standards

Standard - 10inch	Bubble Point @20 °C≥ 0.25 MPa, 60% IPA 40% air, wetted with wate
$(0.55m^2)$	Air Diffusion @20 °C≤30 ml/min @0.35 MPa, wetted with water

Sterilization

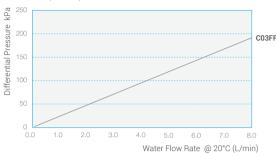
A - Standard Cartridge/ H - High Area Cartridge 1	Can be steam sterilized for 30 minutes at 135 °C with 50 cycles (< 30 kPa)
	Can be autoclaved 50 cycles for 30 minutes at 130°C
L - High Area Cartridge 2	Can be steam sterilized for 30 minutes at 135 °C with 30 cycles (< 30 kPa)
	Can be autoclaved 30 cycles for 30 minutes at 130°C
	Autoclavable capsules only: Can be autoclaved 25 cycles for 30 minutes at 130°C, (Can not be steam sterilized in-line)
	Gamma compatible capsules: Can be sterilized by gamma irradiation at 25-45 kGy or can be autoclaved 5 cycles for
Capsule	60 minutes at 126 °C. (Can not be steamed in-line)
	Sterile capsule: Can be sterilized by gamma irradiation at 25-45 kGy
	Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121°C

Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization



Flow Rates

Water Flow Rate — Cobetter Purcise MLE 0.2/0.1 μm Membrane Bricap C03 Capsule Filter



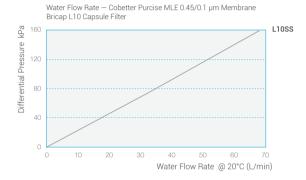
L100SS

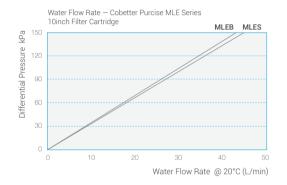
L100SS

Water Flow Rate @ 20°C (L/min)

Water Flow Rate — Cobetter Purcise MLE 0.2/0.1 µm Membrane

Bricap L10 Capsule Filter





Regulatory Compliance

- · Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- · Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3(b)(6).
- \cdot Retention of $10^7\,cfu/cm^2$ Brevundimonas diminuta (ATCC 19146) according to ASTM F838
- · Aqueous extraction from a cartridge contains less than 0.25EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>.
- · Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- · Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- \cdot Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- · Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.

Purcise MLE Filter

Ordering Information

Filter Cartridge Cartridge Format Membrane Type Length Code O-ring Material **MLEB** MLE 0.2/0.1 μm A Standard Cartridge 02 2.5 inch 0 DOE s Silicone Pharmaceutical 2 226 / Flat H - High Area Cartridge(0.69-0.8m²) MLES MLE 0.45/0.1 µm 05 5 inch FPDM Grade 7 226 / Fin V Fluoroelastomer 10 10 inch L - High Area Cartridge(1.0-1.2m²) 3 222 / Flat 20 20 inch P FEP/PFA encapsulated 8 222 / Fin **30** 30 inch 0-rings 6 222 / 3-Flange **40** 40 inch bayonet / Fin **Bricap C Series Capsule Filter** Membrane Type Quantity/Package Inlet/Outlet Sterilization Housing Type Capsule Format Bricap C01 Blank Standard 19 mm(3/4") Sanitary Flange **MLEB** MLE 0.2/0.1 μm A Autoclavable 1 1 /pkg **Pharmaceutical** Bricap C02 C02 14 mm (9/16") Sanitary Flange Transparent MLES MLE 0.45/0.1 μm G Gamma Compatible Grade C03 Bricap C03 31 mm (1 1/4") Sanitary Flange Sterile 14 mm (9/16") Hose Barb Cleansteam Bag 13 mm (1/2") Hose Barb н Sterile Package 9.6 mm (3/8") Hose Barb 3.2 mm (1/8") Hose Barb 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell) 6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell (Outlet only) **Bricap D Series Capsule Filter** Capsule Format Inlet/Outlet D01 Bricap D01 **B** 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell) 6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell (Outlet only) **Bricap L Series Capsule Filter** Housing Type Inlet/Outlet Capsule Format \$ 38 mm (1 1/2") Sanitary Flange Blank Standard L02 Bricap L02 Transparent Bricap L03 19 mm (3/4") Sanitary Flange L03 т L05 Bricap L05 K 14 mm (9/16") Sanitary Flange L10 Bricap L10 D 25 mm (1") Hose Barb M 19 mm (3/4") Hose Barb L20 Bricap L20 L30 Bricap L30 16 mm (5/8") Hose Barb 14 mm (9/16") Hose Barb 13 mm (1/2") Hose Barb 9.6 mm (3/8") Hose Barb **Bricap T Series Capsule Filter** Capsule Format Inlet/Outlet Gauge Port Type **SS** 38 mm (1 1/2") Sanitary **S** 38 mm (1 1/2") T10 Bricap T10 T20 Bricap T20 Flange Inlet & Outlet Sanitary Flange

Bricap T30

T30

SM 38 mm (1 1/2") Sanitary

Flange Inlet & 19 mm

(3/4") Hose Barb Outlet

19 mm (3/4")

Sanitary Flange

Without Gauge Port

Bricap HL Series Capsule Filter					
Capsule Format HL02 Bricap HL02 HL03 Bricap HL03 HL05 Bricap HL05 HL10 Bricap HL10 HL20 Bricap HL20 HL30 Bricap HL30	Inlet/Outlet S 38 mm (1 1/2") Sanitary Flange T 19 mm (3/4") Sanitary Flange V 14 mm (9/16") Hose Barb D 25 mm (1") Hose Barb H 13 mm (1/2") Hose Barb Y 9.6 mm (3/8") Hose Barb	Membrane Type HMLEB HMLE 0.2/0.1 µm LMLEB LMLE 0.2/0.1 µm HMLES HMLE 0.45/0.1 µm LMLES LMLE 0.45/0.1 µm	Sterilization A Autoclavable G Gamma Compatible S Sterile C Cleansteam Bag Sterile Package	Quantity/Package 1 1 /pkg	Pharmaceutical Grade
Bricap HT Series	Capsule Filter				
Capsule Format	Inlet/Outlet				
HT02 Bricap HT02 HT03 Bricap HT03 HT05 Bricap HT05 HT10 Bricap HT10 HT20 Bricap HT20 HT30 Bricap HT30	SS 38 mm (1 1/2") Sanitary Flange SM 38 mm (1 1/2") Sanitary Flange Inlet and19 mm (3/4") Hose Barb Outlet Gauge Port Type S 38 mm (1 1/2") Sanitary Flange T 19 mm (3/4") Sanitary Flange N None				
Brisip SP3 Series	s Capsule Filter				
					P
Capsule Format SP3 Brisip SP3	Inlet/Outlet Membrane Type	Vent and Drain Val		Quantity/Package 1 1 /pkg	Pharmaceutical
	S 38 mm (1 1/2") MLEB MLE 0.2/ Sanitary Flange MLES MLE 0.45	X Vent valve usin (compatible wir and drain valve T Both using quic (compatible wir	g quick coupling th Stäubli connector), e using 6 mm hose barb	5	Grade
BriScale A50 Liq	uid Disc Filter				Р
Disc Filter Format	Inlet/Outlet	Membrane Type	Sterilization	Quantity/Package	
A50 BriScale A50	BB 6-13 mm (1/4"-1/2") Stepped Hose Barb Inlet and Outlet (No Filling Bell) BA 6-13 mm (1/4"-1/2") Stepped Hose Barb Inlet and Outlet (Outlet with Filling Bell)	MLEB MLE 0.2/0.1 μm MLES MLE 0.45/0.1 μm	A AutoclavableG Gamma CompatibleS Sterile	1 1/pkg	Pharmaceutical Grade
Bricap SFU Serie	es Syringe Filter (No Vent)				
Syringe Filter Format U13 Bricap SFU13 U25 Bricap SFU25 U33 Bricap SFU33	Inlet/Outlet CP Female luer lock inlet and male luer lock outlet				
Bricap SFV Serie	s Syringe Filter (With Luer Vent)				
Syringe Filter Format	Inlet/Outlet				
V25 Bricap SFV25	CP Female luer lock inlet and male luer lock outlet				

Mycoplasma Removal Filter Series

Hydrophilic Filter with High Mycoplasma



Features

Low cytotoxicity Low adsorption

Typical Applications

Mycoplasma filtration of culture media

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	MECB(0.2/0.1 μm)	MECS(0.45/0.1 μm)
A - Standard Cartridge (10")	$0.55\mathrm{m}^2$	$0.55\mathrm{m}^2$

Materials of Construction

Membrane	Hydrophilic polyethersulfone (PES)
Support	Polypropylene (PP)
Core/Cage/End Caps	Polypropylene (PP)
Cartridge End Cap Inserts	Polybutylene terephthalate (PBT)
	(Cartridge exclusive)
Cartrdige End Cap O-rings	Silicone / EPDM / Fluoroelastomer /
	PFA encapsulated O-rings
Capsule Housing	Polypropylene (PP)
Capsule Vent O-rings	Silicone

Maximum Differential Pressure

Integrity Test Standards		
Capsule	Reverse: 0.21 MPa @ 25 °C	
	Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C	
A - Standard Cartridge	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C	
	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C	

Standard - 10inch	Bubble Point @20 °C \geq 0.27 MPa, 60% IPA 40% air, wetted with water
(0.55m ²)	Air Diffusion @20 °C≤30 ml/min @0.35 MPa, wetted with water

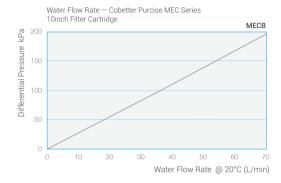
Sterilization

A - Standard Cartridge	Can be steam sterilized for 30 minutes at 135 °C with 50 cycles (< 30 kPa)
	Can be autoclaved 50 cycles for 30 minutes at 130°C
Capsule	Autoclavable capsules only. Can be autoclaved 25 cycles for 30 minutes at 130°C, (Can not be steam sterilized in-line)
	Gamma compatible capsules: Can be sterilized by gamma irradiation at 25-45 kGy or can be autoclaved 5 cycles for
	60 minutes at 126 °C. (Can not be steamed in-line)
	Sterile capsule: Can be sterilized by gamma irradiation at 25-45 kGy
	Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121°C

Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization



Flow Rates



Regulatory Compliance

- · Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- · Component materials meet the criteria for a "Non-fiber-releasing filter"as defined in 21 CFR 210.3(b)(6).
- · Retention of 107 cfu/cm2 Brevundimonas diminuta (ATCC 19146) according to ASTM F838
- · Typical Log Reduction Value (LRV) >7 of Acholeplasma laidlawii (ATCC 23206) according to ASTM F838
- $\cdot \ \, \text{Aqueous extraction from a cartridge contains less than 0.25 EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP < 85 > .}$
- · Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- · Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- · Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.

Purcise MEC Filter

Ordering Information

Filter Cartridge Cartridge Format Membrane Type Length Code O-ring Material MECB MEC 0.2/0.1 μm A Standard Cartridge 02 2.5 inch 0 DOE s Silicone Pharmaceutical MECS MEC 0.45/0.1 μm 2 226 / Flat 05 5 inch FPDM Grade 7 226 / Fin 10 inch V Fluoroelastomer 10 3 222 / Flat 20 20 inch P FEP/PFA encapsulated 8 222 / Fin **30** 30 inch 0-rings 6 222 / 3-Flange **40** 40 inch bayonet / Fin **Bricap C Series Capsule Filter** Membrane Type Quantity/Package Capsule Format Inlet/Outlet Sterilization Bricap C01 19 mm(3/4") Sanitary Flange MECB MEC 0.2/0.1 µm A Autoclavable 1 1 /pkg **Pharmaceutical** Bricap C02 C02 14 mm (9/16") Sanitary Flange MECS MEC 0.45/0.1 μm G Gamma Compatible Grade C03 Bricap C03 31 mm (1 1/4") Sanitary Flange Sterile ٧ 14 mm (9/16") Hose Barb Cleansteam Bag C 13 mm (1/2") Hose Barb н Sterile Package 9.6 mm (3/8") Hose Barb 3.2 mm (1/8") Hose Barb 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell) 6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell (Outlet only) **Bricap D Series Capsule Filter** Capsule Format Inlet/Outlet D01 Bricap D01 **B** 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell) 6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell (Outlet only) **Bricap L Series Capsule Filter** Housing Type Inlet/Outlet Capsule Format \$ 38 mm (1 1/2") Sanitary Flange Blank Standard L02 Bricap L02 Transparent Bricap L03 19 mm (3/4") Sanitary Flange L03 т L05 Bricap L05 K 14 mm (9/16") Sanitary Flange L10 Bricap L10 D 25 mm (1") Hose Barb M 19 mm (3/4") Hose Barb L20 Bricap L20 L30 Bricap L30 16 mm (5/8") Hose Barb 14 mm (9/16") Hose Barb 13 mm (1/2") Hose Barb 9.6 mm (3/8") Hose Barb **Bricap T Series Capsule Filter** Capsule Format Inlet/Outlet Gauge Port Type **SS** 38 mm (1 1/2") Sanitary **S** 38 mm (1 1/2") T10 Bricap T10 T20 Bricap T20 Flange Inlet & Outlet Sanitary Flange **SM** 38 mm (1 1/2") Sanitary T30 Bricap T30 19 mm (3/4")

Flange Inlet & 19 mm

(3/4") Hose Barb Outlet

Sanitary Flange

Without Gauge Port

BriScale A50 Lig	uid Disc Filter				
					Р
Disc Filter Format	Inlet/Outlet	Membrane Type	Sterilization	Quantity/Package	
A50 BriScale A50	BB 6-13 mm (1/4"-1/2") Stepped Hose Barb Inlet and Outlet (No Filling Bell) BA 6-13 mm (1/4"-1/2") Stepped Hose Barb Inlet and Outlet (Outlet with Filling Bell)	MECB MEC 0.2/0.1 μm MECS MEC 0.45/0.1 μm	A AutoclavableG Gamma CompatibleS Sterile	1 1 /pkg	Pharmaceutical Grade
Bricap SFU Serie	es Syringe Filter (No Vent)				
Syringe Filter Format	Inlet/Outlet				
U13 Bricap SFU13 U25 Bricap SFU25 U33 Bricap SFU33	CP Female luer lock inlet and male luer lock outlet				
Bricap SFV Serie	es Syringe Filter (With Luer Vent)				
Syringe Filter Format	Inlet/Outlet				
V25 Bricap SFV25	CP Female luer lock inlet and male luer lock outlet				

Safetect PME Filter
Hydrophilic Filter with
High Dirt-Holding Capacit



Features

Double-layer design Extensive chemical compatibility High dirt-holding and loading capacity, high flow rate, high bacterial retention capacity

Typical Applications

Terminal sterilization protection Pre-filtration of mycoplasma removal Buffer Filtration

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	PMEA(0.8/0.1 μm Nominal)	PMEB(1.0/0.2 µm Nominal)	PMES(1.0/0.45 μm)
A - Standard Cartridge (10")	0.55 m ²	0.55 m ²	$0.55{\rm m}^2$
H - High Area Cartridge 1 (10")	$0.8\mathrm{m}^2$	0.8m^2	0.8m^2
L - High Area Cartridge 2 (10")	1.04 m ²	1.04 m ²	$1.04\mathrm{m}^2$

Materials of Construction

Membrane	Hydrophilic polyethersulfone (PES)
Support	Polypropylene (PP)
Core/Cage/End Caps	Polypropylene (PP)
Cartridge End Cap Inserts	Polybutylene terephthalate (PBT)
	(Cartridge exclusive)
Cartrdige End Cap O-rings	Silicone / EPDM / Fluoroelastomer /
	PFA encapsulated O-rings
Capsule Housing	PFA encapsulated O-rings Polypropylene (PP)
Capsule Housing Capsule Vent O-rings	
	Polypropylene (PP)
Capsule Vent O-rings	Polypropylene (PP) Silicone
Capsule Vent O-rings SP3 Capsule Port Insert	Polypropylene (PP) Silicone 316L Stainless Steel

Maximum Differential Pressure

A - Standard Cartridge/	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
H - High Area Cartridge 1	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
L - High Area Cartridge 2	Forward: 0.55 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
L - High Area Carthage 2	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
Conquila	Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C
Capsule	Reverse: 0.21 MPa @ 25 °C
Integrity Test Standar	ds

Integrity Test Standards

	PMEA: Bubble Point@20 °C≥ 0.3 MPa, air, wetted with water
Standard - 10inch (0.55m²)	PMEB: Bubble Point@20 °C≥ 0.27 MPa, air, wetted with water
(0.00111)	PMES: Bubble Point@20 °C≥ 0.2 MPa, air, wetted with water

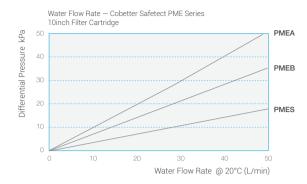
Sterilization

A - Standard Cartridge/	Can be steam sterilized for 30 minutes at 135 °C with 50 cycles (< 30 kPa)
H - High Area Cartridge 1	Can be autoclaved 50 cycles for 30 minutes at 130°C
L High Area Cartridge 2	Can be steam sterilized for 30 minutes at 135 °C with 25 cycles (< 30 kPa)
L - High Area Cartridge 2	Can be autoclaved 25 cycles for 30 minutes at 130°C
	Autoclavable capsules only: Can be autoclaved 25 cycles for 30 minutes at 130°C, (Can not be steam sterilized in-line)
Capsule	Gamma compatible capsules: Can be sterilized by gamma irradiation at 25-45 kGy or can be autoclaved 5 cycles for 60 minutes at 126 °C. (Can not be steamed in-line)
	Sterile capsule: Can be sterilized by gamma irradiation at 25-45 kGy
	Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121°C

Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization



Flow Rates



Regulatory Compliance

- · Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- · Component materials meet the criteria for a "Non-fiber-releasing filter"as defined in 21 CFR 210.3(b)(6).
- · Retention of 107 cfu/cm2 Brevundimonas diminuta (ATCC 19146) according to ASTM F838 for Cobetter Safetect PME 0.8/0.1 N
- · Retention of 107 cfu/cm2 Serratia marcescens (ATCC 14756) according to ASTM F838 for Cobetter Safetect PME 1.0/0.45 N
- · Aqueous extraction from a cartridge contains less than 0.25EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>.
- · Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- · Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- · Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.



Features

Double-layer design Reliable retention of bacteria and particles Extensive chemical compatibility Low leachables Low protein adsorption

Typical Applications

Buffer filtration Pre-column/ultra-filtration protection

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	PLES(0.8/0.45 μm)	PLEH(1.0/0.65 μm)	PLEL(1.5/0.8 μm)
A - Standard Cartridge (10")	0.55 m ²	$0.55{\rm m}^2$	$0.55\mathrm{m}^2$
H - High Area Cartridge 1 (10")	0.8m^2	0.8m^2	$0.8\mathrm{m}^2$
L - High Area Cartridge 2 (10")	1.04 m ²	1.04 m ²	1.04 m ²

Materials of Construction	Maximum Differential Pressure

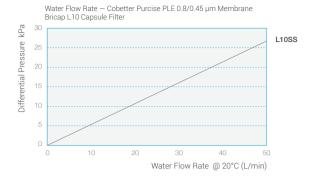
a@80°C	
er	
.EH: Bubble Point@20 °C≥ 0.2 MPa, air, wetted with water	
EL: Bubble Point@20 °C≥ 0.1 MPa, air, wetted with water	
te	

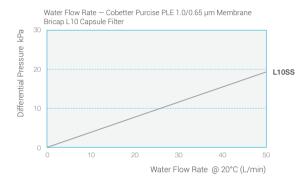
Sterilization		
A - Standard Cartridge/	Can be steam sterilized for 30 minutes at 135 °C with 50 cycles (< 30 kPa)	
H - High Area Cartridge 1	Can be autoclaved 50 cycles for 30 minutes at 130°C	
L Lligh Area Cartridge 2	Can be steam sterilized for 30 minutes at 135 °C with 25 cycles (< 30 kPa)	
L - High Area Cartridge 2	Can be autoclaved 25 cycles for 30 minutes at 130°C	
Capsule	Autoclavable capsules only. Can be autoclaved 25 cycles for 30 minutes at 130°C, (Can not be steam sterilized in-line) Gamma compatible capsules: Can be sterilized by gamma irradiation at 25-45 kGy or can be autoclaved 5 cycles for 60 minutes at 126 °C. (Can not be steamed in-line)	
	Sterile capsule: Can be sterilized by gamma irradiation at 25-45 kGy	
	Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121°C	

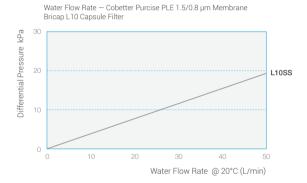
Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization

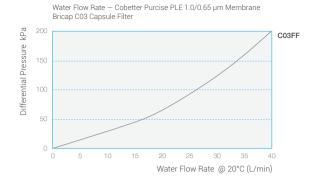


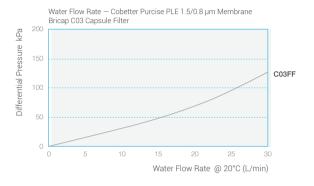
Flow Rates

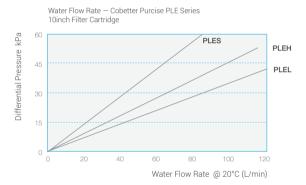












Regulatory Compliance

- · Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- · Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3(b)(6).
- · Typical Log Reduction Value(LRV)>6 using Brevundimonas diminuta(ATCC19146)according to ASTM F838
- · Aqueous extraction from a cartridge contains less than 0.25EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>.
- \cdot Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- · Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °c plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- $\cdot \ \, \text{Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.}$

Purcise PAF Filter Hydrophilic Filter with High Flow Rate



Features

Reliable retention of bacteria and particles Extensive chemical compatibility High flow rate, high throughput

Typical Applications

Buffer Filtration

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	PAFS(0.45 μm)	PAFH(0.65 μm)	PAFL(0.8 μm)	PAFP(1.0 µm)	PAFC(1.2 μm)
A - Standard Cartridge (10")	0.55m^2	0.55m^2	0.55m^2	0.55m^2	0.55m^2
H - High Area Cartridge 1 (10")	$0.8{\rm m}^2$	0.8 m ²	0.8 m ²	0.8 m ²	0.8m^2
L - High Area Cartridge 2 (10")	1.04 m ²				

Materials of Construction

Membrane	Hydrophilic polyethersulfone (PES)
Support	Polypropylene (PP)
Core/Cage/End Caps	Polypropylene (PP)
Cartridge End Cap Inserts	Polybutylene terephthalate (PBT)
	(Cartridge exclusive)
Cartrdige End Cap O-rings	Silicone / EPDM / Fluoroelastomer /
	PFA encapsulated O-rings
Capsule Housing	PFA encapsulated O-rings Polypropylene (PP)
Capsule Housing Capsule Vent O-rings	
	Polypropylene (PP)
Capsule Vent O-rings	Polypropylene (PP) Silicone
Capsule Vent O-rings SP3 Capsule Port Insert	Polypropylene (PP) Silicone 316L Stainless Steel

Maximum Differential Pressure

Waxiiidii Biilelelida i lessale	
A - Standard Cartridge/ H - High Area Cartridge 1	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
L - High Area Cartridge 2	Forward: 0.55 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
Capsule	Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C
	Reverse: 0.21 MPa @ 25 °C
Integrity Test Standar	ds

Standard - 10inch (0.55m²)	PAFS: Bubble Point@20 °C≥ 0.27 MPa, air, wetted with water
	PAFH: Bubble Point@20 °C≥ 0.12 MPa, air, wetted with water
	PAFL: Bubble Point@20°C>0.1 MPa air wetted with water

Sterilization

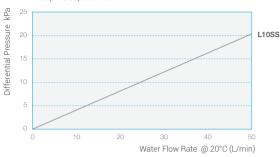
A - Standard Cartridge/	Can be steam sterilized for 30 minutes at 135 °C with 50 cycles (< 30 kPa)
H - High Area Cartridge 1	Can be autoclaved 50 cycles for 30 minutes at 130°C
L - High Area Cartridge 2	Can be steam sterilized for 30 minutes at 135 °C with 25 cycles (< 30 kPa)
	Can be autoclaved 25 cycles for 30 minutes at 130°C
Capsule	Autoclavable capsules only: Can be autoclaved 25 cycles for 30 minutes at 130°C, (Can not be steam sterilized in-line) Gamma compatible capsules: Can be sterilized by gamma irradiation at 25-45 kGy or can be autoclaved 5 cycles for 60 minutes at 126 °C. (Can not be steamed in-line)
'	Sterile capsule: Can be sterilized by gamma irradiation at 25-45 kGy
	Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121°C

Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization

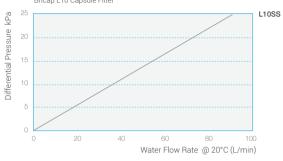


Flow Rates

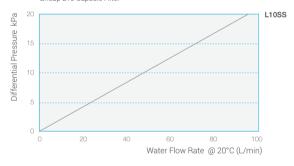




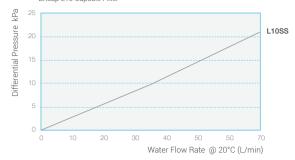
Water Flow Rate — Cobetter Purcise PAF $0.8\mu m$ Membrane Bricap L10 Capsule Filter



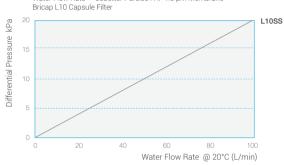
Water Flow Rate — Cobetter Purcise PAF 1.2µm Membrane Bricap L10 Capsule Filter



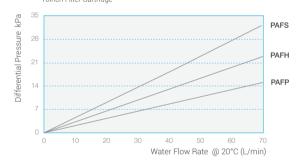
Water Flow Rate — Cobetter Purcise PAF 0.65 µm Membrane Bricap L10 Capsule Filter



Water Flow Rate — Cobetter Purcise PAF 1.0 µm Membrane



Water Flow Rate — Cobetter Purcise PAF Series 10inch Filter Cartridge



Regulatory Compliance

- \cdot Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- · Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3(b)(6).
- · Retention of 107 cfu/cm2 Serratia marcescens (ATCC 14756) according to ASTM F838
- · Aqueous extraction from a cartridge contains less than 0.25EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>.
- · Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- · Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- · Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.

Purcise PEHS Filter
Hydrophilic Filter with
High Flow Rate



Features

Double-layer design Reliable retention of bacteria and particles Extensive chemical compatibility Low leachables

Typical Applications

Pre-filtration of eye drops

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	PEHS(0.8/0.45 μm)
A - Standard Cartridge (10")	$0.55\mathrm{m}^2$
H - High Area Cartridge 1 (10")	0.8 m ²
L - High Area Cartridge 2 (10")	$1.04\mathrm{m}^2$

Materials of Construction

Membrane	Hydrophilic polyethersulfone (PES)
Support	Polypropylene (PP)
Core/Cage/End Caps	Polypropylene (PP)
Cartridge End Cap Inserts	Polybutylene terephthalate (PBT)
	(Cartridge exclusive)
Cartrdige End Cap O-rings	Silicone / EPDM / Fluoroelastomer /
	PFA encapsulated O-rings
Capsule Housing	Polypropylene (PP)
Capsule Vent O-rings	Silicone
SP3 Capsule Port Insert	316L Stainless Steel
SP3 Capsule Housing	Polyetherimide (PEI)
SP3 Capsule O-rings	Silicone

Maximum Differential Pressure

A - Standard Cartridge/ H - High Area Cartridge 1	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
L - High Area Cartridge 2	Forward: 0.55 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
0	Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C
Capsule	Reverse: 0.21 MPa @ 25 °C

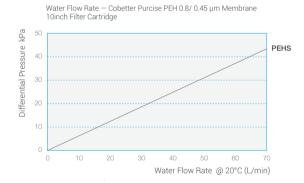
Standard - 10inch	Bubble Point(@20 °C≥ 0.27 MPa, air, wetted with water
(0.55m ²)	Dabble Foliticazo 020.21 Wil a, all, wetted with water



A - Standard Cartridge/ H - High Area Cartridge 1	Can be steam sterilized for 30 minutes at 135 °C with 50 cycles (< 30 kPa)
	Can be autoclaved 50 cycles for 30 minutes at 130°C
L Lligh Argo Cortridge 2	Can be steam sterilized for 30 minutes at 135 °C with 30 cycles (< 30 kPa)
L - High Area Cartridge 2	Can be autoclaved 30 cycles for 30 minutes at 130°C
Capsule	Autoclavable capsules only. Can be autoclaved 25 cycles for 30 minutes at 130°C, (Can not be steam sterilized in-line)
	Gamma compatible capsules: Can be sterilized by gamma irradiation at 25-45 kGy or can be autoclaved 5 cycles for
	60 minutes at 126 °C. (Can not be steamed in-line)
	Sterile capsule: Can be sterilized by gamma irradiation at 25-45 kGy
	Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121°C

Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization

Flow Rates



Regulatory Compliance

- · Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- \cdot Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3(b)(6).
- · Retention of 10⁷ cfu/cm² Serratia marcescens (ATCC 14756) according to ASTM F838
- · Aqueous extraction from a cartridge contains less than 0.25EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>.
- · Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- · Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- $\cdot \ \, \text{Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.}$



Prefiltration and Bioburden Reduction Series Purcise PFAR Filter

Purcise PEAB Filter
Hydrophilic Filter with
High Flow Rate



Features

Double-layer design
Reliable retention of bacteria and particles
Extensive chemical compatibility
Low leachables

Typical Applications

Animal vaccine filtration
Filtration of paclitaxel-albumin solution

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	PEAB(1.0/0.2 µm Nominal)
A - Standard Cartridge (10")	$0.55\mathrm{m}^2$
H - High Area Cartridge 1 (10")	0.8m^2
L - High Area Cartridge 2 (10")	1.04m^2

Materials of Construction

Hydrophilic polyethersulfone (PES)
Polypropylene (PP)
Polypropylene (PP)
Polybutylene terephthalate (PBT)
(Cartridge exclusive)
Silicone / EPDM / Fluoroelastomer /
PFA encapsulated O-rings
Polypropylene (PP)
Silicone
316L Stainless Steel
Polyetherimide (PEI)
Silicone

Maximum Differential Pressure

A - Standard Cartridge/ H - High Area Cartridge 1	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
L - High Area Cartridge 2	Forward: 0.55 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
One and a	Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C
Capsule	Reverse: 0.21 MPa @ 25 °C

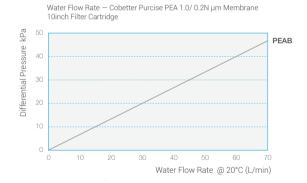
Standard - 10inch (0.55m²) Bubble Point@20 °C≥ 0.27 MPa, air, wetted with water	
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A - Standard Cartridge/	Can be steam sterilized for 30 minutes at 135 °C with 50 cycles (< 30 kPa)
H - High Area Cartridge 1	Can be autoclaved 50 cycles for 30 minutes at 130°C
L Lligh Area Cartridge 2	Can be steam sterilized for 30 minutes at 135 °C with 30 cycles (< 30 kPa)
L - High Area Cartridge 2	Can be autoclaved 30 cycles for 30 minutes at 130°C
	Autoclavable capsules only. Can be autoclaved 25 cycles for 30 minutes at 130°C, (Can not be steam sterilized in-line)
Capsule	Gamma compatible capsules: Can be sterilized by gamma irradiation at 25-45 kGy or can be autoclaved 5 cycles for 60 minutes at 126 °C. (Can not be steamed in-line)
	Sterile capsule: Can be sterilized by gamma irradiation at 25-45 kGy
	Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121 °C

Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization

Flow Rates



Regulatory Compliance

- · Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- · Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3(b)(6).
- · Retention of 10⁷ cfu/cm² Serratia marcescens (ATCC 14756) according to ASTM F838
- · Aqueous extraction from a cartridge contains less than 0.25EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>.
- · Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- \cdot Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- $\cdot \ \, \text{Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.}$



Safetect PME, Purcise PLE/PAF/PEHS/PEAB Filter

Ordering Information

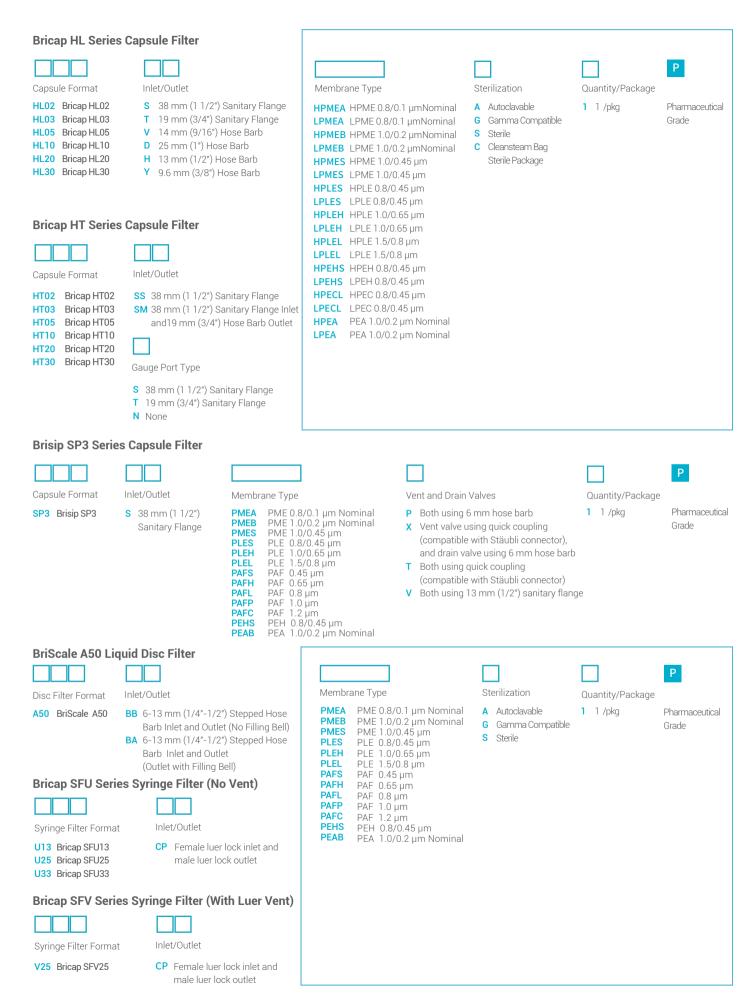
Filter Cartridge Cartridge Format Length Code O-ring Material Membrane Type PMEA PME 0.8/0.1 µm Nominal A Standard Cartridge 02 2.5 inch n DOF s Silicone Pharmaceutical PMEB PME 1.0/0.2 µm Nominal 2 226 / Flat H - High Area Cartridge(0.69-0.8m²) 05 5 inch E FPDM Grade PMES PME 1.0/0.45 µm 7 226 / Fin 10 10 inch V Fluoroelastomer L - High Area Cartridge(1.0-1.2m²) PLES PLE 0.8/0.45 μm 3 222 / Flat 20 20 inch P FEP/PFA encapsulated **PLEH** PLE 1.0/0.65 um 8 222 / Fin **30** 30 inch 0-rings 6 222 / 3-Flange **PLEL** PLE 1.5/0.8 μm **40** 40 inch PAFS PAF 0.45 um bayonet / Fin PAFH PAF 0.65 µm PAFL PAF 0.8 µm PAFP PAF 1.0 µm PAFC PAF 1.2 µm PEHS PEH 0.8/0.45 μm PEAB PEA 1.0/0.2 µm Nominal **Bricap C Series Capsule Filter** Membrane Type Sterilization Quantity/Package Capsule Format Inlet/Outlet Housing Type Bricap C01 Blank Standard C01 19 mm(3/4") Sanitary Flange PMEA PME 0.8/0.1 µm Nominal A Autoclavable 1 1 /pkg Pharmaceutical Bricap C02 14 mm (9/16") Sanitary Flange Transparent C02 PMEB PME 1.0/0.2 µm Nominal G Gamma Compatible Grade Bricap C03 C03 31 mm (1 1/4") Sanitary Flange **PMES** PME 1.0/0.45 μm S Sterile v 14 mm (9/16") Hose Barb PLES PLE 0.8/0.45 μm C Cleansteam Bag н 13 mm (1/2") Hose Barb PLEH PLE 1.0/0.65 µm Sterile Package 9.6 mm (3/8") Hose Barb γ **PLEL** PLE 1.5/0.8 μm 3.2 mm (1/8") Hose Barb PAFS PAF 0.45 um 6-13 mm (1/4"-1/2") Stepped PAFH PAF 0.65 μm Hose Barb (No Filling Bell) PAFL PAF 0.8 µm 6-13 mm (1/4"-1/2") Stepped PAFP PAF 1.0 µm Hose Barb with Filling Bell PAFC PAF 1.2 um (Outlet only) PEHS PEH 0.8/0.45 μm PEAB PEA 1.0/0.2 µm Nominal **Bricap D Series Capsule Filter** Capsule Format Inlet/Outlet D01 Bricap D01 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell) 6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell (Outlet only) **Bricap L Series Capsule Filter** Housing Type Inlet/Outlet Capsule Format Blank Standard L02 Bricap L02 38 mm (1 1/2") Sanitary Flange L03 Bricap L03 Т 19 mm (3/4") Sanitary Flange Transparent 14 mm (9/16") Sanitary Flange L05 Bricap L05 Κ L10 Bricap L10 D 25 mm (1") Hose Barb Bricap L20 M 19 mm (3/4") Hose Barb L20 16 mm (5/8") Hose Barb L30 Bricap L30 14 mm (9/16") Hose Barb 13 mm (1/2") Hose Barb 9.6 mm (3/8") Hose Barb **Bricap T Series Capsule Filter** Capsule Format Inlet/Outlet Gauge Port Type T10 Bricap T10 SS 38 mm (1 1/2") Sanitary S 38 mm (1 1/2") Flange Inlet & Outlet Bricap T20 Sanitary Flange 19 mm (3/4") SM 38 mm (1 1/2") Sanitary Bricap T30 T30

Flange Inlet & 19 mm

(3/4") Hose Barb Outlet

Sanitary Flange

N Without Gauge Port





Purcise PECL FilterHydrophilic Filter with High Flow Rate



Features

Double-layer design Reliable retention of bacteria and particles Extensive chemical compatibility Low leachables

Typical Applications

Prefiltration of culture media

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	PECL(0.8/0.45 μm)
A - Standard Cartridge (10")	$0.55\mathrm{m}^2$

Materials of Construction

Membrane	Hydrophilic polyethersulfone (PES)
Support	Polypropylene (PP)
Core/Cage/End Caps	Polypropylene (PP)
Cartridge End Cap Inserts	Polybutylene terephthalate (PBT)
	(Cartridge exclusive)
Cartridge End Cap O-rings	Silicone / EPDM / Fluoroelastomer /
	PFA encapsulated O-rings
Capsule Housing	Polypropylene (PP)
Capsule Vent O-rings	Silicone

Maximum Differential Pressure

A Ctandard Cartridge	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
A - Standard Cartridge	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
Capsule	Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C
Capsuic	Reverse: 0.21 MPa @ 25 °C

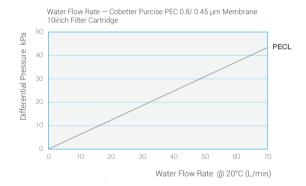
Standard - 10inch (0.55m²)	Bubble Point@20 °C≥ 0.27 MPa, air, wetted with water
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A - Standard Cartridge	Can be steam sterilized for 30 minutes at 135 °C with 50 cycles (< 30 kPa)
	Can be autoclaved 50 cycles for 30 minutes at 130°C
Capsule	Autoclavable capsules only. Can be autoclaved 25 cycles for 30 minutes at 130°C, (Can not be steam sterilized in-line) Gamma compatible capsules: Can be sterilized by gamma irradiation at 25-45 kGy or can be autoclaved 5 cycles for 60 minutes at 126 °C. (Can not be steamed in-line)
	Sterile capsule: Can be sterilized by gamma irradiation at 25-45 kGy
	Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121°C

Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization

Flow Rates



Regulatory Compliance

- $\cdot\,$ Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- · Component materials meet the criteria for a "Non-fiber-releasing filter"as defined in 21 CFR 210.3(b)(6).
- $\cdot\,$ Retention of 10 $^{7}\,\text{cfu/cm}^{2}$ Serratia marcescens (ATCC 14756) according to ASTM F838
- · Aqueous extraction from a cartridge contains less than 0.25EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>.
- · Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- · Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- \cdot Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.



Purcise PECL Filter

Ordering Information

Filter Cartridge Cartridge Format Membrane Type Length Code O-ring Material PECL PEC 0.8/0.45 μm A Standard Cartridge **02** 2.5 inch 0 DOE s Silicone Pharmaceutical 5 inch 2 226 / Flat **E** FPDM Grade 7 226 / Fin V Fluoroelastomer 10 10 inch 3 222 / Flat P FEP/PFA encapsulated 20 20 inch 8 222 / Fin **30** 30 inch 0-rings 6 222 / 3-Flange **40** 40 inch bayonet / Fin **Bricap C Series Capsule Filter** Quantity/Package Housing Type Capsule Format Inlet/Outlet Membrane Type Sterilization Bricap C01 Blank Standard C01 T 19 mm(3/4") Sanitary Flange **PECL** PEC 0.8/0.45 μm Pharmaceutical ▲ Autoclavable 1 1 /pkg Transparent C02 Bricap C02 Κ 14 mm (9/16") Sanitary Flange Gamma Compatible Grade C03 Bricap C03 31 mm (1 1/4") Sanitary Flange S Sterile v 14 mm (9/16") Hose Barb Cleansteam Bag н 13 mm (1/2") Hose Barb Sterile Package 9.6 mm (3/8") Hose Barb 3.2 mm (1/8") Hose Barb ī. 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell) 6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell (Outlet only) **Bricap D Series Capsule Filter** Inlet/Outlet Capsule Format D01 Bricap D01 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell) 6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell (Outlet only) **Bricap L Series Capsule Filter** Housing Type Inlet/Outlet Capsule Format Blank Standard L02 Bricap L02 38 mm (1 1/2") Sanitary Flange Bricap L03 19 mm (3/4") Sanitary Flange Transparent L03 т L05 Bricap L05 14 mm (9/16") Sanitary Flange Bricap L10 D 25 mm (1") Hose Barb L10 19 mm (3/4") Hose Barb L20 Bricap L20 М L30 Bricap L30 Χ 16 mm (5/8") Hose Barb V 14 mm (9/16") Hose Barb 13 mm (1/2") Hose Barb 9.6 mm (3/8") Hose Barb **Bricap T Series Capsule Filter**

Capsule Format

T10 Bricap T10

Bricap T20

Bricap T30

T20

T30

SS 38 mm (1 1/2") Sanitary

Flange Inlet & Outlet

SM 38 mm (1 1/2") Sanitary

Flange Inlet & 19 mm

(3/4") Hose Barb Outlet

Inlet/Outlet

Gauge Port Type

S 38 mm (1 1/2")

Sanitary Flange

Sanitary Flange

N Without Gauge Port

19 mm (3/4")

Dricen III Cories	Compula Filton				
Bricap HL Series	Capsule Filter				
Capsule Format	Inlet/Outlet	Membrane Type	Sterilization	Quantity/Package	Р
HL02 Bricap HL02 HL03 Bricap HL05 HL10 Bricap HL10 HL20 Bricap HL20 HL30 Bricap HL30	S 38 mm (1 1/2") Sanitary Flange T 19 mm (3/4") Sanitary Flange V 14 mm (9/16") Hose Barb D 25 mm (1") Hose Barb H 13 mm (1/2") Hose Barb Y 9.6 mm (3/8") Hose Barb	HPECL HPEC 0.8/0.45 μm LPECL LPEC 0.8/0.45 μm	 A Autoclavable G Gamma Compatible S Sterile C Cleansteam Bag Sterile Package 	1 1 /pkg	Pharmaceutical Grade
Bricap HT Series	Capsule Filter				
	Inlet/Outlet				
HT02 Bricap HT02 HT03 Bricap HT03 HT05 Bricap HT05 HT10 Bricap HT10 HT20 Bricap HT20 HT30 Bricap HT30	SS 38 mm (1 1/2") Sanitary Flange SM 38 mm (1 1/2") Sanitary Flange Inlet and19 mm (3/4") Hose Barb Outlet Gauge Port Type				
	S 38 mm (1 1/2") Sanitary Flange T 19 mm (3/4") Sanitary Flange N None				
D'0 4501'	ile: ell				
BriScale A50 Liqu	lid Disc Fifter				Р
Disc Filter Format	nlet/Outlet	Membrane Type	Sterilization	Quantity/Package	
	BB 6-13 mm (1/4"-1/2") Stepped Hose Barb Inlet and Outlet (No Filling Bell) BA 6-13 mm (1/4"-1/2") Stepped Hose Barb Inlet and Outlet (Outlet with Filling Bell)	PECL PEC 0.8/0.45 μm	A AutoclavableG Gamma CompatibleS Sterile	1 1 /pkg	Pharmaceutical Grade
Bricap SFU Series	Syringe Filter (No Vent)				
Syringe Filter Format	Inlet/Outlet				
U13 Bricap SFU13 U25 Bricap SFU25 U33 Bricap SFU33	CP Female luer lock inlet and male luer lock outlet				
Bricap SFV Series	Syringe Filter (With Luer Vent)				
Syringe Filter Format	Inlet/Outlet				
V25 Bricap SFV25	CP Female luer lock inlet and				

male luer lock outlet

Sterilizing-Grade Filter Series

Corevital SND Filter

Hydrophilic Sterilizing-Grade Filter with

Low Protein Adsorption



Features

Low protein adsorption
Great corrosion resistance,
oxidation resistance
Great thermo-stability
Low leachables
Extensive chemical compatibility

Typical Applications

Filtration of blood products
Sterile filtration of antibiotic solution
Filtration of biological reagent and vaccine

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	SNDN(0.2 µm)	SNDA(0.2/0.1 μm)	SNDB(0.2/0.2 μm)	SNDS(0.45/0.2 μm)	SNDH(0.65/0.2 μm)
A - Standard Cartridge (10")	0.55m^2	$0.55{\rm m}^2$	$0.55\mathrm{m}^2$	$0.55\mathrm{m}^2$	0.55m^2
H - High Area Cartridge 1 (10")	0.8m^2	$0.8{\rm m}^2$	$0.8{\rm m}^2$	$0.8{\rm m}^2$	$0.8{\rm m}^2$
L - High Area Cartridge 2 (10")	1.04m^2	1.04m^2	1.04m^2	1.04m^2	$1.04\mathrm{m}^2$

Materials of Construction

Membrane	Hydrphilic polyvinylidene fluoride(PVDF)
Support	Polypropylene (PP)
Core/Cage/End Caps	Polypropylene (PP)
Cartridge End Cap Inserts	Polybutylene terephthalate (PBT)
	(Cartridge exclusive)
Cartrdige End Cap O-rings	Silicone / EPDM / Fluoroelastomer /
	PFA encapsulated O-rings
Capsule Housing	Polypropylene (PP)
Capsule Vent O-rings	Silicone
SP3 Capsule Port Insert	316L Stainless Steel
SP3 Capsule Housing	Polyetherimide (PEI)
SP3 Capsule O-rings	Silicone

Maximum Differential Pressure

A - Standard Cartridge/	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
H - High Area Cartridge 1	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
L Lligh Area Costridge 2	Forward: 0.55 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
L - High Area Cartridge 2	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
0	Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C
Capsule	Reverse: 0.21 MPa @ 25 °C

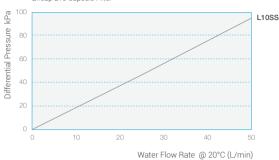
A - Standard Cartridge/	Can be steam sterilized for 30 minutes at 135 °C with 50 cycles (< 30 kPa)
H - High Area Cartridge 1	Can be autoclaved 50 cycles for 30 minutes at 130°C
	Can be steam sterilized for 30 minutes at 135 °C with 30 cycles (< 30 kPa)
L - High Area Cartridge 2	Can be autoclaved 30 cycles for 30 minutes at 130°C
	Autoclavable capsules only: Can be autoclaved 25 cycles for 30 minutes at 130°C, (Can not be steam sterilized in-line)
	Gamma compatible capsules: Can be sterilized by gamma irradiation at 25-45 kGy or can be autoclaved 5 cycles for
Capsule	60 minutes at 126 °C. (Can not be steamed in-line)
	Sterile capsule: Can be sterilized by gamma irradiation at 25-45 kGy
	Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121°C

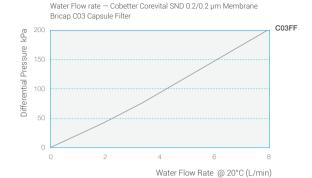
 $Notes: Gamma\ sterilized\ products\ cannot\ be\ re-sterilized\ with\ gamma\ irradiation\ or\ steam\ sterilization$

,	SNDN	SNDA
Standard - 10inch	Bubble Point@20 °C≥ 0.32 MPa, air, wetted with water	Bubble Point@20 °C≥ 0.48 MPa, air, wetted with water
$(0.55m^2)$	Air Diffusion@20 °C≤ 28 ml/min @0.28 MPa, wetted with water	Air Diffusion@20 °C≤ 20 ml/min @0.386 MPa, wetted with water
Standard Q Series	Bubble Point@20 °C≥ 0.345 MPa, air, wetted with water	Bubble Point@20 °C≥ 0.50 MPa, air, wetted with water
(0.55m ²)	Air Diffusion@20 °C≤ 28 ml/min @0.28MPa, wetted with water	Air Diffusion@20 °C≤20 ml/min @0.386 MPa, wetted with water
	SNDB	SNDS
Standard - 10inch	Bubble Point@20 °C≥ 0.32 MPa, air, wetted with water	Bubble Point@20 °C≥ 0.32 MPa, air, wetted with water
$(0.55m^2)$	Air Diffusion@20 °C≤ 16 ml/min @0.28 MPa, wetted with water	Air Diffusion@20 °C≤ 20 ml/min @0.28 MPa, wetted with water
Standard Q Series	Bubble Point@20 °C≥ 0.345 MPa, air, wetted with water	Bubble Point@20 °C≥ 0.345 MPa, air, wetted with water
(0.55m²)	Air Diffusion@20 °C≤ 16 ml/min @0.28 MPa, wetted with water	Air Diffusion@20 °C≤20 ml/min @0.28 MPa, wetted with water
	SNDH	
Standard - 10inch	Bubble Point@20 °C≥ 0.32 MPa, air, wetted with water	
$(0.55m^2)$	Air Diffusion@20 °C≤ 20 ml/min @0.28 MPa, wetted with water	
Standard Q Series	Bubble Point@20 °C≥ 0.345 MPa, air, wetted with water	
(0.55m ²)	Air Diffusion@20 °C≤ 20 ml/min @0.28 MPa, wetted with water	

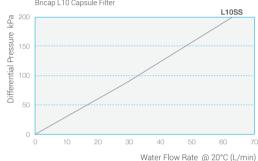
Flow Rates

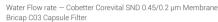


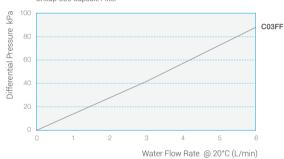




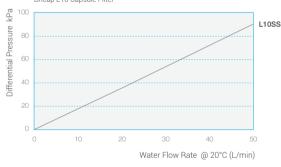
Water Flow rate — Cobetter Corevital SND 0.2/0.2 $\,\mu m$ Membrane Bricap L10 Capsule Filter



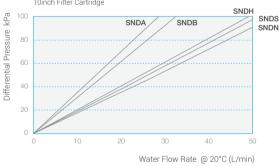




Water Flow rate — Cobetter Corevital SND 0.45/0.2 µm Membrane Bricap L10 Capsule Filter







Regulatory Compliance

- · Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- $\cdot \ \, \text{Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3 (b) (6).}$
- · Retention of 107 cfu/cm2 Brevundimonas diminuta (ATCC 19146) according to ASTM F838
- · Aqueous extraction from a cartridge contains less than 0.25EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>.
- · Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- · Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- $\cdot \ \, \text{Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.}$



Sterilizing-Grade Filter Series

Corevital SMD Filter
Hydrophilic Sterilizing-Grade Filter with
High Throughput and
Low Protein Adsorption



Features

High throughput Low protein adsorption Reliable retention of bacteria and particles

Typical Applications

Buffer filtration
Pre-column/ultra-filtration protection
Filtration of intermediate products/stock solutions
Filtration of serum and blood products, sterile
filtration of terminal products
Filtration of colloidal or viscous liquids

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	SMDN(0.2 µm)	SMDA(0.2/0.1 μm)	SMDB(0.2/0.2 μm)	SMDS(0.45/0.2 μm)	SMDH(0.65/0.2 μm)
A - Standard Cartridge (10")	$0.55\mathrm{m}^2$	0.55m^2	0.55m^2	0.55m^2	0.55m^2
H - High Area Cartridge 1 (10")	$0.8{\rm m}^2$	$0.8{\rm m}^2$	$0.8{\rm m}^2$	0.8m^2	$0.8{\rm m}^2$
L - High Area Cartridge 2 (10")	$1.04\mathrm{m}^2$	$1.04\mathrm{m}^2$	$1.04\mathrm{m}^2$	$1.04\mathrm{m}^2$	$1.04\mathrm{m}^2$

Materials of Construction

Membrane	Hydrphilic polyvinylidene fluoride(PVDF)
Support	Polypropylene (PP)
Core/Cage/End Caps	Polypropylene (PP)
Cartridge End Cap Inserts	Polybutylene terephthalate (PBT)
	(Cartridge exclusive)
Cartrdige End Cap O-rings	Silicone / EPDM / Fluoroelastomer /
	PFA encapsulated O-rings
Capsule Housing	Polypropylene (PP)
Capsule Vent O-rings	Silicone
SP3 Capsule Port Insert	316L Stainless Steel
SP3 Capsule Housing	Polyetherimide (PEI)
SP3 Capsule O-rings	Silicone

Maximum Differential Pressure

A - Standard Cartridge/	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
H - High Area Cartridge 1	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
L - High Area Cartridge 2	Forward: 0.55 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
Capsule	Forward: 0.55 MPa @ 25 °C, 0.1MPa @ 80 °C
	Reverse: 0.21 MPa @ 25 °C



A - Standard Cartridge/	Can be steam sterilized for 30 minutes at 135 °C with 50 cycles (< 30 kPa)		
H - High Area Cartridge 1	Can be autoclaved 50 cycles for 30 minutes at 130°C		
L - High Area Cartridge 2	Can be steam sterilized for 30 minutes at 135 °C with 30 cycles (< 30 kPa)		
	Can be autoclaved 30 cycles for 30 minutes at 130°C		
Capsule	Autoclavable capsules only. Can be autoclaved 25 cycles for 30 minutes at 130°C, (Can not be steam sterilized in-line) Gamma compatible capsules: Can be sterilized by gamma irradiation at 25-45 kGy or can be autoclaved 5 cycles for 60 minutes at 126 °C. (Can not be steamed in-line)		
	Sterile capsule: Can be sterilized by gamma irradiation at 25-45 kGy		
	Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121°C		

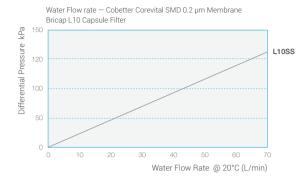
Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization

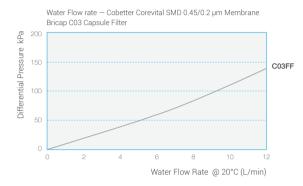
Integrity Test Standards

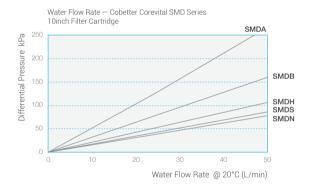
SMDN / SMDB / SMDS / SMDH

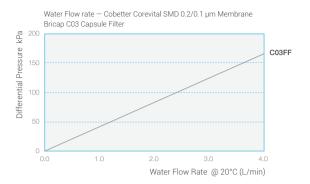
Standard - 10inch (0.55m²)	Bubble Point@20 °C≥ 0.32 MPa, air, wetted with water			
	Air Diffusion@20 °C≤ 20 ml/min @0.28 MPa, wetted with water			
Standard Q Series	Bubble Point@20 °C≥ 0.345 MPa, air, wetted with water			
(0.55m ²)	Air Diffusion@20 °C≤ 20 ml/min @0.28MPa, wetted with water			
	SMDA			
Standard - 10inch	Bubble Point@20 °C≥ 0.48 MPa, air, wetted with water			
Standard - 10inch (0.55m²)	Bubble Point@20 °C≥ 0.48 MPa, air, wetted with water Air Diffusion@20 °C≤ 20 ml/min @0.386 MPa, wetted with water			
(0.55m²)	Air Diffusion@20 °C≤ 20 ml/min @0.386 MPa, wetted with water			

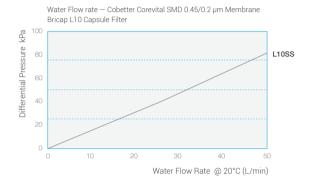
Flow Rates











Regulatory Compliance

- · Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- $\cdot \ \, \text{Component materials meet the criteria for a "Non-fiber-releasing filter"} as \ defined in 21 \ \text{CFR 210.3(b)(6)}.$
- · Retention of 107 cfu/cm2 Brevundimonas diminuta (ATCC 19146) according to ASTM F838
- · Aqueous extraction from a cartridge contains less than 0.25EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>.
- · Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- · Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- $\cdot \ \, \text{Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.}$

Corevital SND/SMD

Ordering Information

Filter Cartridge Cartridge Format Membrane Type Length Code O-ring Material Category SNDN SND 0.2 µm A Standard Cartridge 02 2.5 inch n DOF s Silicone **Blank** Standard Pharmaceutical 5 inch **SNDA** SND 0.2/0.1 µm 05 2 226 / Flat **FPDM** Grade H - High Area Cartridge(0.69-0.8m²) **SNDB** SND 0.2/0.2 μm 7 226 / Fin V Fluoroelastomer L - High Area Cartridge(1.0-1.2m²) 10 10 inch 3 222 / Flat **SNDS** SND 0.45/0.2 µm 20 inch P FEP/PFA encapsulated 8 222 / Fin **SNDH** SND 0.65/0.2 µm **30** 30 inch O-rings 6 222 / 3-Flange SMDN SMD 0.2 µm **40** 40 inch bayonet / Fin **SMDA** SMD 0.2/0.1 μm **SMDB** SMD 0.2/0.2 µm **SMDS** SMD 0.45/0.2 μm **SMDH** SMD 0.65/0.2 µm **Bricap C Series Capsule Filter** Quantity/ Membrane Type Sterilization Category Housing Type Capsule Format Inlet/Outlet Package Blank Standard Bricap C01 19 mm(3/4") Sanitary Flange SNDN SND 0.2 µm A Autoclavable 1 1 /pkg Blank Standard Pharmaceutical Bricap C02 C02 14 mm (9/16") Sanitary Flange Transparent **SNDA** SND 0.2/0.1 μm G Gamma Compatible Grade C03 Bricap C03 31 mm (1 1/4") Sanitary Flange **SNDB** SND 0.2/0.2 µm Sterile 14 mm (9/16") Hose Barb SNDS SND 0.45/0.2 μm Cleansteam Bag 13 mm (1/2") Hose Barb н **SNDH** SND 0.65/0.2 um Sterile Package 9.6 mm (3/8") Hose Barb SMDN SMD 0.2 µm 3.2 mm (1/8") Hose Barb **SMDA** SMD 0.2/0.1 µm 6-13 mm (1/4"-1/2") Stepped **SMDB** SMD 0.2/0.2 μm Hose Barb (No Filling Bell) SMDS SMD 0.45/0.2 µm 6-13 mm (1/4"-1/2") Stepped **SMDH** SMD 0.65/0.2 μm Hose Barb with Filling Bell (Outlet only) **Bricap D Series Capsule Filter** Capsule Format Inlet/Outlet D01 Bricap D01 **B** 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell) 6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell (Outlet only) **Bricap L Series Capsule Filter** Housing Type Inlet/Outlet Capsule Format Blank Standard L02 Bricap L02 S 38 mm (1 1/2") Sanitary Flange Transparent L03 Bricap L03 т 19 mm (3/4") Sanitary Flange L05 Bricap L05 K 14 mm (9/16") Sanitary Flange L10 Bricap L10 D 25 mm (1") Hose Barb 19 mm (3/4") Hose Barb 120 Bricap L20 М L30 Bricap L30 16 mm (5/8") Hose Barb 14 mm (9/16") Hose Barb 13 mm (1/2") Hose Barb 9.6 mm (3/8") Hose Barb **Bricap T Series Capsule Filter** Capsule Format Inlet/Outlet Gauge Port Type **SS** 38 mm (1 1/2") Sanitary 38 mm (1 1/2") T10 Bricap T10

Bricap T20

Bricap T30

T20

T30

Flange Inlet & Outlet

SM 38 mm (1 1/2") Sanitary

Flange Inlet & 19 mm

(3/4") Hose Barb Outlet

Sanitary Flange

Sanitary Flange

Without Gauge Port

19 mm (3/4")

Bricap HL Series	Capsule Filter					
Capsule Format HL02 Bricap HL02 HL03 Bricap HL05 HL10 Bricap HL10 HL20 Bricap HL20 HL30 Bricap HL30 Bricap HT Series Capsule Format HT02 Bricap HT02 HT03 Bricap HT03 HT05 Bricap HT03 HT06 Bricap HT03 HT07 Bricap HT08 HT10 Bricap HT00 HT20 Bricap HT30 HT30 Bricap HT30	Inlet/Outlet S 38 mm (1 1/2") Sanitary Flange T 19 mm (3/4") Sanitary Flange V 14 mm (9/16") Hose Barb D 25 mm (1") Hose Barb H 13 mm (1/2") Hose Barb Y 9.6 mm (3/8") Hose Barb S Capsule Filter Inlet/Outlet SS 38 mm (1 1/2") Sanitary Flange SM 38 mm (1 1/2") Sanitary Flange Inlet and 19 mm (3/4") Hose Barb Outlet Gauge Port Type S 38 mm (1 1/2") Sanitary Flange T 19 mm (3/4") Sanitary Flange N None	Membrane Type HSNDN HSND 0.2 μm LSNDN LSND 0.2 μm HSNDA HSND 0.2/0.1 μm LSNDA LSND 0.2/0.1 μm HSNDB HSND 0.2/0.2 μm HSNDB LSND 0.2/0.2 μm HSNDS HSND 0.45/0.2 μm HSNDH HSND 0.65/0.2 μm HSNDH HSND 0.65/0.2 μm HSNDN LSND 0.2 μm LSNDN LSND 0.2 μm HSNDN HSND 0.2 μm LSNDN LSND 0.2 μm LSNDN LSND 0.2 μm LSNDN LSND 0.2 μm HSNDN HSND 0.2 μm LSNDN LSND 0.2/0.1 μm LSNDN LSND 0.2/0.1 μm HSNDN LSND 0.2/0.2 μm HSNDB HSND 0.2/0.2 μm LSNDB LSND 0.45/0.2 μm LSNDS LSND 0.45/0.2 μm LSNDS LSND 0.45/0.2 μm LSNDN LSND 0.65/0.2 μm	m i	Quantity/ Package 1 1 /pkg	outogory .	Pharmaceutical Grade
Brisip SP3 Serie	s Capsule Filter	_			_	
				Quantity/		Р
Capsule Format SP3 Brisip SP3	Inlet/Outlet Membrane Type	0.1 µm X Vent valve us (compatible valve 2.2 µm and drain valve 2.2 µm (compatible valve 2.2 µm (compatible valve 2.1 µm V Both using 1.3 valve 2.2 µm 5/0.2 µm	mm hose barb ing quick coupling with Stäubli connector), ve using 6 mm hose barb	Package 1 1/pkg	Category Blank Standar Q	d Pharmaceutical Grade
BriScale A50 Liq	uid Disc Filter					_
		Marshau T	Charilination	Quantity/		Р
Disc Filter Format A50 BriScale A50	Inlet/Outlet BB 6-13 mm (1/4"-1/2") Stepped Hose Barb Inlet and Outlet (No Filling Bell) BA 6-13 mm (1/4"-1/2") Stepped Hose Barb Inlet and Outlet (Outlet with Filling Bell)	Membrane Type SNDN SND 0.2 μm SNDA SND 0.2/0.1 μm SNDB SND 0.2/0.2 μm SNDS SND 0.45/0.2 μm SNDH SND 0.65/0.2 μm		Quantity/ Package I 1 /pkg	Category Blank Standard Q	Pharmaceutical Grade
Bricap SFU Serie	es Syringe Filter (No Vent)	SMDN SMD 0.2 μm SMDA SMD 0.2/0.1 μm				
		SMDB SMD 0.2/0.2 μm SMDS SMD 0.45/0.2 μm				
Syringe Filter Format		SMDH SMD 0.65/0.2 μm				
U13 Bricap SFU13 U25 Bricap SFU25 U33 Bricap SFU33	CP Female luer lock inlet and male luer lock outlet					
Bricap SFV Serie	es Syringe Filter (With Luer Vent)					
Syringe Filter Format	Inlet/Outlet					
V25 Bricap SFV25	CP Female luer lock inlet and male luer lock outlet					

Sterilizing-Grade Filter Series

Corevital SVLB Filter Hydrophilic Sterilizing-Grade Filter wit High Throughput and Low Protein Adsorption



Features

High flow rate, high loading Low leachables Low adsorption

Typical Applications

Buffer filtration

Pre-column/ultra-filtration protection

Filtration of intermediate products/stock solutions

Filtration of serum and blood products, sterile

filtration of terminal products
Filtration of colloidal or viscous liquids

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	SVLB(0.2 μm)
A - Standard Cartridge (10")	0.73 m ²

Materials of Construction

Membrane	Hydrphilic polyvinylidene fluoride(PVDF)
Support	Polypropylene (PP)
Core/Cage/End Caps	Polypropylene (PP)
Cartridge End Cap Inserts	Polybutylene terephthalate (PBT)
	(Cartridge exclusive)
Cartrdige End Cap O-rings	Silicone / EPDM / Fluoroelastomer /
	PFA encapsulated O-rings
Capsule Housing	Polypropylene (PP)
Capsule Vent O-rings	Silicone

Maximum Differential Pressure

A - Standard Cartridge	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
Capsule	Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C
	Reverse: 0.21 MPa @ 25 °C

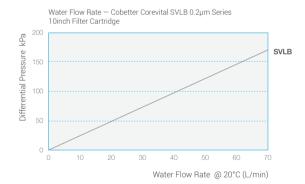
Standard - 10inch	Bubble Point@20 °C≥ 0.365 MPa, air, wetted with water			
$(0.55m^2)$	Air Diffusion@20 °C≤ 26.5 ml/min @0.28 MPa, wetted with water			



A - Standard Cartridge	Can be steam sterilized for 30 minutes at 135 °C with 50 cycles (< 30 kPa)		
3	Can be autoclaved 50 cycles for 30 minutes at 130°C		
Capsule	Autoclavable capsules only. Can be autoclaved 25 cycles for 30 minutes at 130°C, (Can not be steam sterilized in-line) Gamma compatible capsules: Can be sterilized by gamma irradiation at 25-45 kGy or can be autoclaved 5 cycles for 60 minutes at 126 °C. (Can not be steamed in-line)		
	Sterile capsule: Can be sterilized by gamma irradiation at 25-45 kGy		
	Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121°C		

Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization

Flow Rates



Regulatory Compliance

- · Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- · Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3(b)(6).
- · Retention of 10⁷ cfu/cm² Brevundimonas diminuta (ATCC 19146) according to ASTM F838
- · Aqueous extraction from a cartridge contains less than 0.25EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>.
- · Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- · Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- · Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.



Corevital SVLB

Ordering Information

Filter Cartridge Cartridge Format Membrane Type Length Code O-ring Material SVLB SVL 0.2 µm A Standard Cartridge 02 2.5 inch 0 DOF S Silicone Pharmaceutical 05 5 inch 2 226 / Flat E EPDM Grade 7 226 / Fin 10 10 inch **V** Fluoroelastomer 3 222 / Flat 20 20 inch P FEP/PFA encapsulated 8 222 / Fin **30** 30 inch 0-rings 6 222 / 3-Flange **40** 40 inch bayonet / Fin **Bricap C Series Capsule Filter** Housing Type Inlet/Outlet Membrane Type Sterilization Quantity/Package Capsule Format Blank Standard C01 Bricap C01 T 19 mm(3/4") Sanitary Flange SVLB SVL 0.2 µm A Autoclavable 1 1 /pkg Pharmaceutical Transparent C02 Bricap C02 14 mm (9/16") Sanitary Flange Gamma Compatible Grade Bricap C03 31 mm (1 1/4") Sanitary Flange C03 S Sterile 14 mm (9/16") Hose Barb Cleansteam Bag 13 mm (1/2") Hose Barb Sterile Package 9.6 mm (3/8") Hose Barb 3.2 mm (1/8") Hose Barb 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell) 6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell (Outlet only) **Bricap L Series Capsule Filter** Housing Type Capsule Format Inlet/Outlet Standard L02 Bricap L02 38 mm (1 1/2") Sanitary Flange Bricap L03 19 mm (3/4") Sanitary Flange Transparent L03 т Bricap L05 14 mm (9/16") Sanitary Flange L05 K L10 Bricap L10 D 25 mm (1") Hose Barb M 19 mm (3/4") Hose Barb 120 Bricap L20 Х 16 mm (5/8") Hose Barb L30 Bricap L30 v 14 mm (9/16") Hose Barb 13 mm (1/2") Hose Barb н 9.6 mm (3/8") Hose Barb **Bricap T Series Capsule Filter** Capsule Format Inlet/Outlet Gauge Port Type T10 Bricap T10 **SS** 38 mm (1 1/2") Sanitary **S** 38 mm (1 1/2") Flange Inlet & Outlet Sanitary Flange T20 Bricap T20 **SM** 38 mm (1 1/2") Sanitary

Bricap T30

T30

Flange Inlet & 19 mm

(3/4") Hose Barb Outlet

19 mm (3/4")

Sanitary Flange

N Without Gauge Port

BriScale A50 Lic	quid Disc Filter					
						P
Disc Filter Format	Inlet/Outlet	Membrane Type	Sterilization	Quantity/ Package	Category	
A50 BriScale A50	BB 6-13 mm (1/4"-1/2") Stepped Hose Barb Inlet and Outlet (No Filling Bell) BA 6-13 mm (1/4"-1/2") Stepped Hose Barb Inlet and Outlet (Outlet with Filling Bell)	SVLB SVL 0.2 μm	A AutoclavableG Gamma CompatibleS Sterile	1 1 /pkg	Blank Standard Q	Pharmaceutical Grade
Bricap SFU Serie	es Syringe Filter (No Vent)					
Syringe Filter Format	t Inlet/Outlet					
U13 Bricap SFU13 U25 Bricap SFU25 U33 Bricap SFU33	CP Female luer lock inlet and male luer lock outlet					
Bricap SFV Serie	es Syringe Filter (With Luer Vent)					
Syringe Filter Format	t Inlet/Outlet					
V25 Bricap SFV25	CP Female luer lock inlet and male luer lock outlet					

Corevital PMDS Filter
Hydrophilic Filter with
Low Protein Adsorption



Features

Double-layer design, high throughput Low protein adsorption Reliable retention of bacteria and particles

Typical Applications

Buffer filtration Bioburden reduction Pre-column/ultrafiltration protection Protective filtration before sterile filtration

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	PMDS(1.0/0.45 μm)
A - Standard Cartridge (10")	$0.55\mathrm{m}^2$
H - High Area Cartridge 1 (10")	$0.8{\rm m}^2$
L - High Area Cartridge 2 (10")	1.04 m ²

Materials of Construction

Membrane	Hydrphilic polyvinylidene fluoride(PVDF)
Support	Polypropylene (PP)
Core/Cage/End Caps	Polypropylene (PP)
Cartridge End Cap Inserts	Polybutylene terephthalate (PBT)
	(Cartridge exclusive)
Cartrdige End Cap O-rings	Silicone / EPDM / Fluoroelastomer /
	PFA encapsulated O-rings
Capsule Housing	Polypropylene (PP)
Capsule Vent O-rings	Silicone
SP3 Capsule Port Insert	316L Stainless Steel
SP3 Capsule Housing	Polyetherimide (PEI)
SP3 Capsule O-rings	Silicone

Maximum Differential Pressure

A - Standard Cartridge/	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
H - High Area Cartridge 1	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
L - High Area Cartridge 2	Forward: 0.55 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
Capsule	Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C
	Reverse: 0.21 MPa @ 25 °C

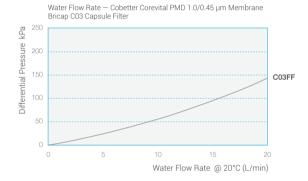
Standard - 10inch	Bubble Point @20 °C≥ 0.18 MPa, air, wetted with water
$(0.55m^2)$	Air Diffusion @20 °C≤ 15 ml/min @0.15 MPa, wetted with water

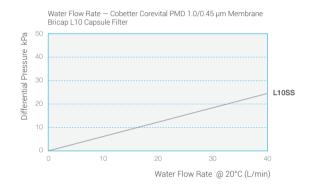


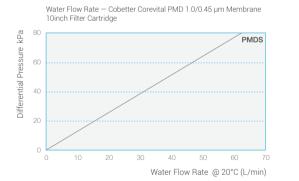
A - Standard Cartridge/	Can be steam sterilized for 30 minutes at 135 °C with 50 cycles (< 30 kPa)
H - High Area Cartridge 1	Can be autoclaved 50 cycles for 30 minutes at 130°C
L - High Area Cartridge 2	Can be steam sterilized for 30 minutes at 135 °C with 30 cycles (< 30 kPa)
	Can be autoclaved 30 cycles for 30 minutes at 130°C
Capsule	Autoclavable capsules only: Can be autoclaved 25 cycles for 30 minutes at 130°C, (Can not be steam sterilized in-line)
	Gamma compatible capsules: Can be sterilized by gamma irradiation at 25-45 kGy or can be autoclaved 5 cycles for 60 minutes at 126 °C. (Can not be steamed in-line)
	Sterile capsule: Can be sterilized by gamma irradiation at 25-45 kGy
Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121°C	

Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization

Flow Rates







Regulatory Compliance

- $\cdot \ \, \text{Effluent meets the USP} \\ \text{788> requirement of particulate matter in large volume injection}.$
- · Component materials meet the criteria for a "Non-fiber-releasing filter"as defined in 21 CFR 210.3(b)(6).
- · Retention of 10⁷ cfu/cm² Serratia marcescens (ATCC 14756) according to ASTM F838
- · Aqueous extraction from a cartridge contains less than 0.25EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>.
- · Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- · Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- $\cdot \ \, \text{Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.}$

Corevital PDFS Filter
Hydrophilic Filter with
Low Protein Adsorption



Features

High throughput Low protein adsorption Reliable retention of bacteria and particles

Typical Applications

Bacterial reduction of 4-6 LRV Buffer filtration, bioburden reduction Pre-column/ultra filtration protection Protective filtration before sterilization filtration

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	PDFS(0.45 μm)
A - Standard Cartridge (10")	$0.55\mathrm{m}^2$
H - High Area Cartridge 1 (10")	$0.8{\rm m}^2$
L - High Area Cartridge 2 (10")	1.04 m ²

Materials of Construction

Membrane	Hydrphilic polyvinylidene fluoride(PVDF)
Support	Polypropylene (PP)
Core/Cage/End Caps	Polypropylene (PP)
Cartridge End Cap Inserts	Polybutylene terephthalate (PBT)
	(Cartridge exclusive)
Cartrdige End Cap O-rings	Silicone / EPDM / Fluoroelastomer /
	PFA encapsulated O-rings
Capsule Housing	Polypropylene (PP)
Capsule Vent O-rings	Silicone
SP3 Capsule Port Insert	316L Stainless Steel
SP3 Capsule Housing	Polyetherimide (PEI)
SP3 Capsule O-rings	Silicone

Maximum Differential Pressure

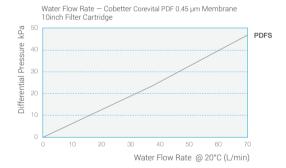
Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
Forward: 0.55 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C
Reverse: 0.21 MPa @ 25 °C

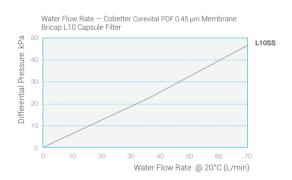
Standard - 10inch (0.55m²)	Bubble Point @20 °C≥ 0.18 MPa, air, wetted with water
	Air Diffusion @20 °C≤15 ml/min @0.15 MPa, wetted with water

A - Standard Cartridge/ H - High Area Cartridge 1	Can be steam sterilized for 30 minutes at 135 °C with 50 cycles (< 30 kPa)
	Can be autoclaved 50 cycles for 30 minutes at 130°C
L - High Area Cartridge 2	Can be steam sterilized for 30 minutes at 135 °C with 30 cycles (< 30 kPa)
	Can be autoclaved 30 cycles for 30 minutes at 130°C
Capsule	Autoclavable capsules only: Can be autoclaved 25 cycles for 30 minutes at 130°C, (Can not be steam sterilized in-line)
	Gamma compatible capsules: Can be sterilized by gamma irradiation at 25-45 kGy or can be autoclaved 5 cycles for 60 minutes at 126 °C. (Can not be steamed in-line)
	Sterile capsule: Can be sterilized by gamma irradiation at 25-45 kGy
	Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121°C

Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization

Flow Rates





Regulatory Compliance

- · Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- $\cdot \ \, \text{Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3 (b) (6).}$
- · Retention of 10⁷ cfu/cm² Serratia marcescens (ATCC 14756) according to ASTM F838
- · Aqueous extraction from a cartridge contains less than 0.25EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>.
- · Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- · Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- $\cdot \ \, \text{Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.}$



Corevital PNDS Filter
High Throughput and
Low Protein Adsorption



Features

Double-layer design
High throughput
Low protein adsorption
Reliable retention of bacteria and particles

Typical Applications

Buffer filtration
Bioburden reduction
Pre-column/ultra-filtration protection
Protective filtration before sterile filtration

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	PNDS(0.45 μm)
A - Standard Cartridge (10")	0.55m^2
H - High Area Cartridge 1 (10")	$0.8\mathrm{m}^2$
L - High Area Cartridge 2 (10")	1.04 m ²

Materials of Construction

Membrane	Hydrphilic polyvinylidene fluoride(PVDF)
Support	Polypropylene (PP)
Core/Cage/End Caps	Polypropylene (PP)
Cartridge End Cap Inserts	Polybutylene terephthalate (PBT)
	(Cartridge exclusive)
Cartrdige End Cap O-rings	Silicone / EPDM / Fluoroelastomer /
	PFA encapsulated O-rings
Capsule Housing	Polypropylene (PP)
Capsule Vent O-rings	Silicone
SP3 Capsule Port Insert	316L Stainless Steel
SP3 Capsule Housing	Polyetherimide (PEI)
SP3 Capsule O-rings	Silicone

Maximum Differential Pressure

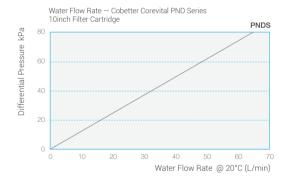
A - Standard Cartridge/ H - High Area Cartridge 1	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
L - High Area Cartridge 2	Forward: 0.55 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
Capsule	Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C
	Reverse: 0.21 MPa @ 25 °C

Standard - 10inch (0.55m²)	Bubble Point	@20 °C≥ 0.12 MPa, air, wetted with water
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A - Standard Cartridge/ H - High Area Cartridge 1	Can be steam sterilized for 30 minutes at 135 °C with 50 cycles (< 30 kPa)
	Can be autoclaved 50 cycles for 30 minutes at 130°C
L - High Area Cartridge 2	Can be steam sterilized for 30 minutes at 135 °C with 30 cycles (< 30 kPa)
	Can be autoclaved 30 cycles for 30 minutes at 130°C
Capsule	Autoclavable capsules only: Can be autoclaved 25 cycles for 30 minutes at 130°C, (Can not be steam sterilized in-line)
	Gamma compatible capsules: Can be sterilized by gamma irradiation at 25-45 kGy or can be autoclaved 5 cycles for 60 minutes at 126 °C. (Can not be steamed in-line)
	Sterile capsule: Can be sterilized by gamma irradiation at 25-45 kGy
	Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121°C

Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization

Flow Rates



Regulatory Compliance

- · Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- $\cdot \ \, \text{Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3 (b) (6).}$
- · Retention of 10⁷ cfu/cm² Serratia marcescens (ATCC 14756) according to ASTM F838
- $\cdot \ \, \text{Aqueous extraction from a cartridge contains less than 0.25 EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP < 85 > .}$
- · Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- · Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- $\cdot \ \, \text{Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.}$



Corevital PMDS/PDFS/PNDS Filter

Ordering Information **Filter Cartridge** O-ring Material Cartridge Format Membrane Type Length Code PMDS PMD 1.0/0.45 um s Silicone Pharmaceutical A Standard Cartridge 02 2.5 inch n DOF PDFS PDF 0.45 µm **05** 5 inch 2 226 / Flat E EPDM Grade H H - High Area Cartridge(0.69-0.8m²) PNDS PND 0.8/0.45 µm 7 226 / Fin 10 10 inch V Fluoroelastomer L - High Area Cartridge(1.0-1.2m²) 3 222 / Flat 20 inch P FEP/PFA encapsulated 8 222 / Fin 30 inch O-rings 6 222 / 3-Flange 40 inch bayonet / Fin **Bricap C Series Capsule Filter** Sterilization Housing Type Capsule Format Inlet/Outlet Membrane Type Quantity/Package Blank Standard C01 Bricap C01 19 mm(3/4") Sanitary Flange **PMDS** PMD 1.0/0.45 μm A Autoclavable 1 1 /pkg Pharmaceutical Bricap C02 14 mm (9/16") Sanitary Flange C02 Transparent PDFS PDF 0.45 µm G Gamma Compatible Grade C03 Bricap C03 31 mm (1 1/4") Sanitary Flange PNDS PND 0.8/0.45 μm Sterile ٧ 14 mm (9/16") Hose Barb C Cleansteam Bag н 13 mm (1/2") Hose Barb Sterile Package 9.6 mm (3/8") Hose Barb 3.2 mm (1/8") Hose Barb 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell) 6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell (Outlet only) **Bricap D Series Capsule Filter** Inlet/Outlet Capsule Format D01 Bricap D01 **B** 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell) 6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell (Outlet only) **Bricap L Series Capsule Filter** Housing Type Inlet/Outlet Capsule Format **Blank** Standard L02 Bricap L02 \$ 38 mm (1 1/2") Sanitary Flange L03 Bricap L03 19 mm (3/4") Sanitary Flange Transparent т L05 Bricap L05 14 mm (9/16") Sanitary Flange K 25 mm (1") Hose Barb L10 Bricap L10 D M 19 mm (3/4") Hose Barb L20 Bricap L20 L30 Bricap L30 X 16 mm (5/8") Hose Barb 14 mm (9/16") Hose Barb 13 mm (1/2") Hose Barb 9.6 mm (3/8") Hose Barb **Bricap T Series Capsule Filter** Capsule Format Inlet/Outlet Gauge Port Type **SS** 38 mm (1 1/2") Sanitary **S** 38 mm (1 1/2") T10 Bricap T10 Flange Inlet & Outlet Sanitary Flange T20 Bricap T20 Bricap T30 SM 38 mm (1 1/2") Sanitary 19 mm (3/4")

Flange Inlet & 19 mm

(3/4") Hose Barb Outlet

Sanitary Flange

N Without Gauge Port

Bricap HL Series	Capsule Filter				
Capsule Format HL02 Bricap HL02 HL03 Bricap HL03 HL05 Bricap HL05 HL10 Bricap HL10 HL20 Bricap HL20 HL30 Bricap HL30	Inlet/Outlet S 38 mm (1 1/2") Sanitary Flange T 19 mm (3/4") Sanitary Flange V 14 mm (9/16") Hose Barb D 25 mm (1") Hose Barb H 13 mm (1/2") Hose Barb Y 9.6 mm (3/8") Hose Barb	Membrane Type HPMDS HPMD 1.0/0.45 μm LPMDS LPMD 1.0/0.45 μm HPDFS HPDF 0.45 μm LPDFS LPDF 0.45 μm HPNDS HPND 0.8/0.45 μm LPNDS LPND 0.8/0.45 μm	Sterilization A Autoclavable G Gamma Compatible S Sterile C Cleansteam Bag Sterile Package	Quantity/Package 1 1 /pkg	Pharmaceutical Grade
Bricap HT Series	Capsule Filter				
Capsule Format HT02 Bricap HT02 HT03 Bricap HT03 HT05 Bricap HT05 HT10 Bricap HT10 HT20 Bricap HT20 HT30 Bricap HT30	Inlet/Outlet SS 38 mm (1 1/2") Sanitary Flange SM 38 mm (1 1/2") Sanitary Flange Inlet and19 mm (3/4") Hose Barb Outlet Gauge Port Type S 38 mm (1 1/2") Sanitary Flange T 19 mm (3/4") Sanitary Flange N None				
Brisip SP3 Series	s Capsule Filter				
	Inlet/Outlet Membrane Type S 38 mm (1 1/2*) PMDS PMD 1.0 Sanitary Flange PDFS PDF 0.4	X Vent valve u (compatible and drain va T Both using α (compatible	5 mm hose barb Ising quick coupling with Stäubli connector), Ilve using 6 mm hose barb	Quantity/Package 1 1 /pkg	P Pharmaceutical Grade
BriScale A50 Liq	uid Disc Filter				Р
Disc Filter Format	Inlet/Outlet	Membrane Type	Sterilization	Quantity/Package	
A50 BriScale A50	BB 6-13 mm (1/4"-1/2") Stepped Hose Barb Inlet and Outlet (No Filling Bell) BA 6-13 mm (1/4"-1/2") Stepped Hose Barb Inlet and Outlet (Outlet with Filling Bell)	PMDS PMD 1.0/0.45 μm PDFS PDF 0.45 μm PNDS PND 0.8/0.45 μm	A AutoclavableG Gamma CompatibleS Sterile	1 1 /pkg	Pharmaceutical Grade
Bricap SFU Serie	s Syringe Filter (No Vent)				
Syringe Filter Format	Inlet/Outlet				
U13 Bricap SFU13 U25 Bricap SFU25 U33 Bricap SFU33	CP Female luer lock inlet and male luer lock outlet				
Bricap SFV Serie	s Syringe Filter (With Luer Vent)				
Syringe Filter Format	Inlet/Outlet				
V25 Bricap SFV25	CP Female luer lock inlet and male luer lock outlet				

Mycoplasma Removal Filter Series

Corevital MMDA Filter
Hydrophilic Filter with
High Mycoplasma Retention Rate



Features

Low adsorption

Typical Applications

Mycoplasma removal application Mycoplasma removal from buffer Intermediate product filtration Stock solution filtration Terminal product filtration

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	MMDA(0.1/0.1μm)
A - Standard Cartridge (10")	0.55 m ²

Materials of Construction

Membrane	Hydrphilic polyvinylidene fluoride(PVDF)
Support	Polypropylene (PP)
Core/Cage/End Caps	Polypropylene (PP)
Cartridge End Cap Inserts	Polybutylene terephthalate (PBT)
	(Cartridge exclusive)
Cartrdige End Cap O-rings	Silicone / EPDM / Fluoroelastomer /
	PFA encapsulated O-rings
Capsule Housing	Polypropylene (PP)
Capsule Vent O-rings	Silicone

Maximum Differential Pressure

A - Standard Cartridge	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
Capsule	Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C
	Reverse: 0.21 MPa @ 25 °C

Integrity Test Standards

Standard - 10inch	Bubble Point @20 °C≥ 0.48 MPa, air, wetted with water
$(0.55m^2)$	Air Diffusion @ 20 °C≤ 20 ml/min @ 0.386 MPa, wetted with water

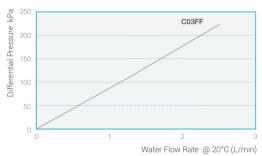
Sterilization

A - Standard Cartridge	Can be steam sterilized for 30 minutes at 135 °C with 50 cycles (< 30 kPa)
3	Can be autoclaved 50 cycles for 30 minutes at 130°C
Capsule	Autoclavable capsules only: Can be autoclaved 25 cycles for 30 minutes at 130°C, (Can not be steam sterilized in-line)
	Gamma compatible capsules: Can be sterilized by gamma irradiation at 25-45 kGy or can be autoclaved 5 cycles for 60 minutes at 126 °C. (Can not be steamed in-line)
	Sterile capsule: Can be sterilized by gamma irradiation at 25-45 kGy
	Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121°C

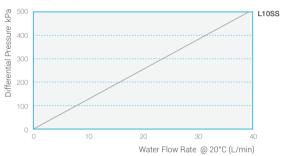
Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization

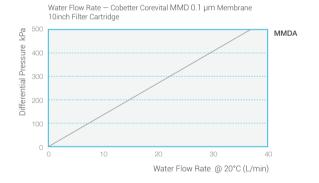
Flow Rates

Water Flow Rate — Cobetter Corevital MMD 0.1/0.1 μm Membrane Bricap C03 Capsule Filter



Water Flow Rate — Cobetter Corevital MMD 0.1/0.1 µm Membrane Bricap L10 Capsule Filter





Regulatory Compliance

- $\cdot \ \, \text{Effluent meets the USP-} \\ 788 \text{- requirement of particulate matter in large volume injection.}$
- · Component materials meet the criteria for a "Non-fiber-releasing filter"as defined in 21 CFR 210.3(b)(6).
- \cdot Retention of $10^7\,cfu/cm^2$ Brevundimonas diminuta (ATCC 19146) $\,$ according to ASTM F838 $\,$
- · Typical Log Reduction Value (LRV) >7 of Acholeplasma laidlawii (ATCC 23206) according to ASTM F838
- $\cdot \ \, \text{Aqueous extraction from a cartridge contains less than 0.25 EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP < 85 > .}$
- · Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- \cdot Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 $^{\circ}\text{C}$ plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- $\cdot \ \, \text{Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.}$

Corevital MMDA 0.1µm Filter

Ordering Information

Filter Cartridge					
Cartridge Format A Standard Cartridge	Membrane Type MMDA MMD 0.1/0.1μm	Length 02 2.5 in 05 5 inc 10 10 in 20 20 in 30 30 in	h 2 226/Flach 7 226/Flach 3 222/Flach	n V Fluoroelasto at P FEP/PFA er	Pharmaceutical Grade omer
Bricap C Series Capsule Filt	rer	40 40 in	ch 6 222/3- bayonet	Flange : / Fin	P
Housing Type Capsule For Blank Standard C01 Brical C02 Brical C03 Brical C03 Brical C04 C05	pC01 T 19 mm(3/4") Sanitary	Flange y Flange ry Flange arb rb irb tepped sell) tepped	Membrane Type MMDA MMD 0.1/0.1μm	Sterilization A Autoclavable G Gamma Compatible S Sterile C Cleansteam Bag Sterile Package	Quantity/Package 1 1 /pkg Pharmaceutical Grade
Bricap D Series Capsule Filter	r				
Capsule Format D01 Bricap D01	Inlet/Outlet B 6-13 mm (1/4"-1/2") S Hose Barb (No Filling B A 6-13 mm (1/4"-1/2") S	Bell)			

Hose Barb with Filling Bell

(Outlet only)

Bricap L Series Capsule Filter					
Capsule Format	Inlet/Outlet	Membrane Type	Sterilization	Quantity/Package	P
L02 Bricap L02 L03 Bricap L03 L05 Bricap L05 L10 Bricap L10 L20 Bricap L20 L30 Bricap L30	S 38 mm (1 1/2") Sanitary Flange T 19 mm (3/4") Sanitary Flange K 14 mm (9/16") Sanitary Flange D 25 mm (1") Hose Barb M 19 mm (3/4") Hose Barb X 16 mm (5/8") Hose Barb V 14 mm (9/16") Hose Barb H 13 mm (1/2") Hose Barb Y 9.6 mm (3/8") Hose Barb	MMDA MMD 0.1/0.1μm	 A Autoclavable G Gamma Compatible S Sterile C Cleansteam Bag Sterile Package 	1 1 /pkg	Pharmaceutical Grade
nlot/Outlot	Causa Part Typa				
SS 38 mm (1 1/2") \$ Flange Inlet & Ou Flange Inlet & 19	Sanitary S 38 mm (1 1/2") utlet Sanitary Flange Sanitary T 19 mm (3/4") Sanitary Flange				
	Capsule Format .02 Bricap L02 .03 Bricap L05 .10 Bricap L10 .20 Bricap L20 .30 Bricap L30 sule Filter S 38 mm (1 1/2") Flange Inlet & O M 38 mm (1 1/2") Flange Inlet & 1.	Capsule Format Inlet/Outlet Capsule Ficap L02 S 38 mm (1 1/2") Sanitary Flange Capsule Ficap L03 T 19 mm (3/4") Hose Barb Capsule Ficap L10 D 25 mm (1") Hose Barb Capsule Ficap L20 M 19 mm (3/4") Hose Barb Capsule Ficap L20 M 19 mm (3/4") Hose Barb Capsule Ficap L20 M 19 mm (3/4") Hose Barb Capsule Ficap L20 M 19 mm (3/4") Hose Barb Capsule Ficap L20 M 19 mm (3/4") Capsule Ficap L20 M 19 mm (3/4") Sanitary Flange Capsule Ficap L20 S 38 mm (1 1/2") Sanita	Capsule Format Inlet/Outlet Description: D	Capsule Format Inlet/Outlet Discrept Loss Signatury Flange Sterilization Membrane Type Sterilization A Autoclavable G Gamma Compatible Signated Sterile Signature Sterile Signature Sterile Signature Sterile Package Sterile C Cleansteam Bag Sterile Package Sterile Package Sterile Pac	Capsule Format Inlet/Outlet Daysule Format Inlet/Outlet Membrane Type Sterilization Quantity/Package Gemama Compatible Sisterile Sterile Package Sterile Compatible Sisterile Package Membrane Type Sterilization Quantity/Package Membrane Type Sterilization Quantity/Package Compatible Sisterile Compatible Sisterile Package Sterile Package Tip Membrane Type Sterilization Quantity/Package Membrane Type Sterile Package Sterile Package Sterile Package Tip Membrane Type Sterile Package Tip Membran

Sterilizing-Grade Filter Series

Safesatable SHBB FilterHydrophilic Sterilizing-Grade Filter



Features

Great chemical compatibility Hydrophilic PTFE membrane

Typical Applications

Sterile Filtration of organic compounds Filtration of disinfectant Filtration of strong acid and alkali High temperature filtration

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	SHBB(0.2µm)
A - Standard Cartridge (10")	0.56 m ²

Materials of Construction

Membrane	Hydrophilic Polytetrafluoroethylene (PTFE)	
Support	Polypropylene (PP)	
Core/Cage/End Caps	Polypropylene (PP)	
Cartridge End Cap Inserts	Polybutylene terephthalate (PBT)	
	(Cartridge exclusive)	
Cartrdige End Cap O-rings	Silicone / EPDM / Fluoroelastomer /	
	PFA encapsulated O-rings	
Capsule Housing	Polypropylene (PP)	
Capsule Vent O-rings	Silicone	

Maximum Differential Pressure

A - Standard Cartridge	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
Capsule	Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C
Capsuic	Reverse: 0.21 MPa @ 25 °C

Integrity Test Standards

Standard - 10inch (0.56m²)	Bubble Point @20 °C≥ 0.33 MPa, air, wetted with water	
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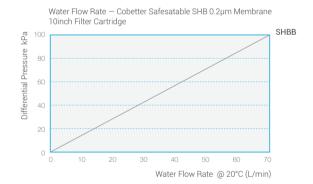


Sterilization

A - Standard Cartridge	Can be steam sterilized for 30 minutes at 135 °C with 35 cycles (< 30 kPa)
	Can be autoclaved 35 cycles for 30 minutes at 130°C
Capsule	Autoclavable capsules only: Can be autoclaved 25 cycles for 30 minutes at 130°C, (Can not be steam sterilized in-line)
	Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121°C

Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization

Flow Rates



Regulatory Compliance

- \cdot Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- $\cdot \ \, \text{Component materials meet the criteria for a "Non-fiber-releasing filter"} as \ defined in 21 \ \text{CFR 210.3(b)(6)}.$
- · Retention of 10⁷ cfu/cm² Brevundimonas diminuta (ATCC 19146) according to ASTM F838
- · Aqueous extraction from a cartridge contains less than 0.25EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>.
- \cdot Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- · Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- · Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.



Safesatable SHBB Filter

Ordering Information

Filter Cartridge Cartridge Format Membrane Type Length Code O-ring Material SHBB SHB 0.2 µm 02 2.5 inch Pharmaceutical A Standard Cartridge 0 DOE S Silicone **05** 5 inch 2 226 / Flat E EPDM Grade 7 226 / Fin 10 10 inch V Fluoroelastomer 3 222 / Flat **20** 20 inch P FEP/PFA encapsulated O-rings 8 222 / Fin **30** 30 inch 6 222/3-Flange **40** 40 inch bayonet / Fin **Bricap C Series Capsule Filter** Membrane Type Sterilization Housing Type Capsule Format Inlet/Outlet Quantity/Package Blank Standard CO1 Bricap CO1 T 19 mm(3/4") Sanitary Flange SHBB SHB 0.2 µm A Autoclavable 1 1 /pkg Pharmaceutical Bricap C02 K 14 mm (9/16") Sanitary Flange Transparent C02 C Sterile Package Grade Bricap C03 C03 31 mm (1 1/4") Sanitary Flange 14 mm (9/16") Hose Barb 13 mm (1/2") Hose Barb 9.6 mm (3/8") Hose Barb 3.2 mm (1/8") Hose Barb 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell) 6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell (Outlet only) **Bricap D Series Capsule Filter** Inlet/Outlet Capsule Format D01 Bricap D01 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell) 6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell (Outlet only) **Bricap L Series Capsule Filter** Housing Type Inlet/Outlet Capsule Format Blank Standard L02 Bricap L02 S 38 mm (1 1/2") Sanitary Flange L03 Bricap L03 19 mm (3/4") Sanitary Flange Transparent L05 Bricap L05 14 mm (9/16") Sanitary Flange K D 25 mm (1") Hose Barb L10 Bricap L10 L20 Bricap L20 M 19 mm (3/4") Hose Barb Bricap L30 X 16 mm (5/8") Hose Barb L30

14 mm (9/16") Hose Barb 13 mm (1/2") Hose Barb 9.6 mm (3/8") Hose Barb

Bricap T Series Capsu	le Filter				
Capsule Format	Inlet/Outlet	Membrane Type	Sterilization	Quantity/Package	P
T10 Bricap T10 T20 Bricap T20 T30 Bricap T30	SS 38 mm (1 1/2") Sanitary Flange Inlet & Outlet SM 38 mm (1 1/2") Sanitary Flange Inlet & 19 mm (3/4") Hose Barb Outlet	SHBB SHB 0.2 μm	A Autoclavable	1 1/pkg	Pharmaceutical Grade
	Gauge Port Type S 38 mm (1 1/2") Sanitary Flange T 19 mm (3/4") Sanitary Flange N Without Gauge Port				
BriScale A50 Liquid	l Disc Filter				
Disc Filter Format	Inlet/Outlet				
A50 BriScale A50	BB 6-13 mm (1/4"-1/2") Stepped Hose Barb Inlet and Outlet (No Filling Bell) BA 6-13 mm (1/4"-1/2") Stepped Hose Barb Inlet and Outlet (Outlet with Filling Bell)				
Bricap SFU Series S	Syringe Filter (No Vent)				
Syringe Filter Format	Inlet/Outlet				
U13 Bricap SFU13 U25 Bricap SFU25 U33 Bricap SFU33	CP Female luer lock inlet and male luer lock outlet				
Bricap SFV Series S	Syringe Filter (With Luer Vent)				
Syringe Filter Format	Inlet/Outlet				
V25 Bricap SFV25	CP Female luer lock inlet and				

Gas Filtration Series

Corevital APB Filter

Gamma-Resistant Hydrophobic Filter



Features

High throughput, high retention rate Low differential pressure Reliable retention of bacteria and particles Gamma resistant

Typical Applications

Vent filter for fermentation, storage tanks Sterile filtration for compressed air, oxygen, nitrogen Single-use system application

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	APBB(0.2μm)
A - Standard Cartridge (10")	$0.75\mathrm{m}^2$

Materials of Construction

Membrane	Hydrophobic polyvinylidene fluoride (PVDF
Support	Polypropylene (PP)
Core/Cage/End Caps	Polypropylene (PP)
Cartridge End Cap Inserts	Polybutylene terephthalate (PBT)
	(Cartridge exclusive)
Cartrdige End Cap O-rings	Silicone / EPDM / Fluoroelastomer /
	PFA encapsulated O-rings
Capsule Housing	Polypropylene (PP)
Capsule Vent O-rings	Silicone

Maximum Differential Pressure

A - Standard Cartridge	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
A - Stariuaru Cartriuge	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
Capsule	Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C
	Reverse: 0.21 MPa @ 25 °C

Integrity Test Standards

Standard - 10inch	Bubble Point @ 20 °C: ≥ 0.11 MPa, 60% IPA 40% , air, wetted with water
$(0.75m^2)$	Water Intrusion @ 20 °C: ≤ 0.75 ml/min @ 0.18 MPa

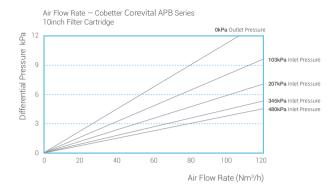
Sterilization

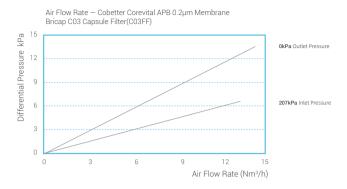
A - Standard Cartridge	Can be steam sterilized for 30 minutes at 135 °C with 50 cycles (< 30 kPa)
	Can be autoclaved 50 cycles for 30 minutes at 130°C
Capsule	Autoclavable capsules only: Can be autoclaved 25 cycles for 30 minutes at 130°C, (Can not be steam sterilized in-line) Gamma compatible capsules: Can be sterilized by gamma irradiation at 25-45 kGy or can be autoclaved 5 cycles for 60 minutes at 126°C. (Can not be steamed in-line)
	Sterile capsule: Can be sterilized by gamma irradiation at 25-45 kGy
	Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121°C

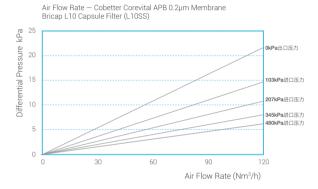
Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization



Flow Rates







Regulatory Compliance

- · Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- · Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3(b)(6).
- \cdot Retention of 10 7 cfu/cm 2 Brevundimonas diminuta (ATCC 19146) according to ASTM F838
- Typical Log Reduction Value (LRV) >7 using >108 pfu Bacteriophage Phi-X174 (ATCC 13706-B1)
- · Aqueous extraction from a cartridge contains less than 0.25EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>.
- · Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- · Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- · Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.

Corevital APBB Filter

Ordering Information

Filter Cartridge Cartridge Format Membrane Type Length Code O-ring Material APBB APB 0.2µm A Standard Cartridge 02 2.5 inch n DOF s Silicone Pharmaceutical 05 5 inch 2 226 / Flat E FPDM Grade 7 226 / Fin 10 inch 10 V Fluoroelastomer 3 222 / Flat 20 20 inch P FEP/PFA encapsulated O-rings 8 222 / Fin **30** 30 inch 6 222 / 3-Flange **40** 40 inch bayonet / Fin **Bricap C Series Capsule Filter** Quantity/Package Inlet/Outlet Membrane Type Sterilization Housing Type Capsule Format Bricap C01 Blank Standard C01 19 mm(3/4") Sanitary Flange APBB APB 0.2µm Autoclavable 1 1 /pkg Pharmaceutical Transparent C02 Bricap C02 14 mm (9/16") Sanitary Flange Gamma Compatible Grade C03 Bricap C03 31 mm (1 1/4") Sanitary Flange S Sterile 14 mm (9/16") Hose Barb Cleansteam Bag 13 mm (1/2") Hose Barb н Sterile Package 9.6 mm (3/8") Hose Barb 3.2 mm (1/8") Hose Barb 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell) 6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell (Outlet only) **Bricap D Series Capsule Filter** Inlet/Outlet Capsule Format D01 Bricap D01 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell) 6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell (Outlet only) **Bricap L Series Capsule Filter** Housing Type Capsule Format Inlet/Outlet Blank Standard L02 Bricap L02 38 mm (1 1/2") Sanitary Flange Transparent L03 Bricap L03 19 mm (3/4") Sanitary Flange Bricap L05 14 mm (9/16") Sanitary Flange L05 Bricap L10 25 mm (1") Hose Barb L10 Bricap L20 19 mm (3/4") Hose Barb L20 16 mm (5/8") Hose Barb L30 Bricap L30 Х 14 mm (9/16") Hose Barb 13 mm (1/2") Hose Barb 9.6 mm (3/8") Hose Barb **Bricap T Series Capsule Filter** Capsule Format Inlet/Outlet Gauge Port Type Sterilization Quantity/Package Membrane Type Bricap T10 SS 38 mm (1 1/2") Sanitary 38 mm (1 1/2") T10 APBB APB 0.2um Α Autoclavable 1 1 /pkg Pharmaceutical Flange Inlet & Outlet Sanitary Flange T20 Bricap T20 Gamma Compatible Grade T30 Bricap T30 SM 38 mm (1 1/2") Sanitary 19 mm (3/4") Sterile Flange Inlet & 19 mm Sanitary Flange

(3/4") Hose Barb Outlet

N Without Gauge Port

Gas Filtration Series

Safesure AFBB Filter Hydrophobic Filter



Features

PTFE is inherently hydrophobic and further processed for even more hydrophobic, maintaining sterilizing capacity in both unwet and wet condition Oleo-phobic

High retention rates, low pressure differential

Use of heat resistant thickened PP as core, better heat resistance and pressure resistance

Heat resistance, can be steamed in line and autoclaved repeatedly

Typical Applications

Vent filter for fermentation, storage tanks Sterile filtration for compressed air, oxygen, nitrogen Single-use system application

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	AFBB(0.2μm)
A - Standard Cartridge (10")	$0.80\mathrm{m}^2$

Materials of Construction

Membrane	Hydrophobic Polytetrafluoroethylene (PTFE)
Support	Polypropylene (PP)
Core/Cage/End Caps	Polypropylene (PP)
Cartridge End Cap Inserts	316L Stainless Stell/Polybutylene
	Terephthalate(PBT)(Cartrides Only)
Cartrdige End Cap O-rings	Silicone/Viton/EPDM
	PEP/PFA encapsulated O-ring
Capsule Housing	Polypropylene (PP)
Capsule Vent O-rings	Silicone
SP3 Capsule Port Insert	316L Stainless Steel
SP3 Capsule Housing	Poyetherimide (PEI)
SP3 Capsule O-rings	Silicone

Maximum Differential Pressure

A Ctandard Cartridge	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
A - Standard Cartridge	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
Capsule	Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C
	Reverse: 0.21 MPa @ 25 °C

Integrity Test Standards

Standard - 10inch (0.80m²) Water	low Test @ 20 °C: ≤ 0.84 ml/min @ 0.25 MPa
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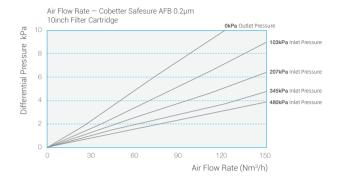
Sterilization

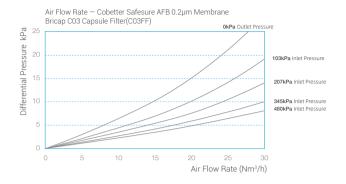
A - Standard Cartridge	Can be steam sterilized for 30 minutes at 145 °C in forward direction(<30kPa) with 100 cycles plus in reverse direction(<10kPa), 150 cycles in total.	
	Can be autoclaved 200 cycles for 30 min at 130 °C	
Capsule	Autoclavable Capsule Filter: Can be autoclaved 50 cycles for 30 min at 130 °C (Can not be steam sterilized in line)	
	Cleansteam Bag Sterile Package: Pre-sterilized by autocalve for 30 min at 121°C	

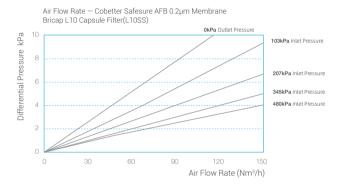
Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization



Flow Rates







Regulatory Compliance

- \cdot Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- · Component materials meet the criteria for a "Non-fiber-releasing filter"as defined in 21 CFR 210.3(b)(6).
- · Retention of 10⁷ cfu/cm² Brevundimonas diminuta (ATCC 19146) according to ASTM F838
- · Typical Log Reduction Value (LRV) >7 using >108 pfu Bacteriophage Phi-X174 (ATCC 13706-B1)
- · Aqueous extraction from a cartridge contains less than 0.25EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>.
- · Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- · Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- \cdot Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- · Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.

Safesure AFBB Filter

Ordering Information

Filter Cartridge								
								Р
Cartridge Format A Standard Cartridge		orane Type AFB 0.2µm	Length 02 2.5 inc 05 5 inch 10 10 inc 20 20 inc 30 30 inc 40 40 inc	h 2 22 ch 7 22 ch 3 22 ch 8 22 ch 6 22		O-ring Material S Silicone E EPDM V Fluoroelastome P FEP/PFA encap	er (Pharmaceutical Grade
Bricap C Series C	apsule Filter							
Housing Type Blank Standard K Transparent	Capsule Format C01 Bricap C01 C02 Bricap C02 C03 Bricap C03	Inlet/Outlet T 19 mm(3/4") San K 14 mm (9/16") Sa F 31 mm (1 1/4") San V 14 mm (9/16") Ho H 13 mm (1/2") Hos V 9.6 mm (3/8") Ho L 3.2 mm (1/8") Ho B 6-13 mm (1/4"-1, Hose Barb (No Fil A 6-13 mm (1/4"-1, Hose Barb with F (Outlet only)	anitary Flange anitary Flange ose Barb se Barb se Barb se Barb /2") Stepped lling Bell) /2") Stepped	Membran AFBB AF		Sterilization A Autoclavable C Sterile Package	Quantity/Packag 1 1 /pkg	e Pharmaceutical Grade
Bricap L Series Ca	psule Filter							
Housing Type Blank Standard K Transparent	Capsule Format L02 Bricap L02 L03 Bricap L03 L05 Bricap L05 L10 Bricap L10 L20 Bricap L20 L30 Bricap L30	Inlet/Outlet S 38 mm (1 1/2") Sa T 19 mm (3/4") Sar K 14 mm (9/16") Sa D 25 mm (1") Hose M 19 mm (3/4") Hos X 16 mm (5/8") Hos V 14 mm (9/16") Ho H 13 mm (1/2") Hos Y 9.6 mm (3/8") Ho	nitary Flange anitary Flange Barb se Barb se Barb ose Barb se Barb					
Bricap T Series Ca	psule Filter							
Capsule Format T10 Bricap T10 T20 Pricep T20	Inlet/Outlet SS 38 mm (1 1/2"): Flange Inlet & Or							
T20 Bricap T20 T30 Bricap T30	SM 38 mm (1 1/2"): Flange Inlet & 19 (3/4") Hose Bark	Sanitary T 19 mr 9 mm Sanita	-					
Brisip SP3 Serie	s Capsule Filter							
Capsule Format	Inlet/Outlet	Membrane Type		nt and Drain Valves		Quantity/Pac	_	
SP3 Brisip SP3	S 38 mm (1 1/2") Sanitary Flange	AFBB AFB 0.2	X	Both using 6 mm he Vent valve using qu (compatible with St	ick coupling	1 1 /pkg	Pha Gra	armaceutical de

and drain valve using 6 mm hose barb

(compatible with Stäubli connector)

V Both using 13 mm (1/2") sanitary flange

T Both using quick coupling

Gas Filtration Series

Safesure AFM Filter

Hydrophobic Sterilizing-Grade Filter with High Retention Rate and High Throughpu[.]



Features

Inherently hydrophobic membrane
High retention rate
High throughput and low pressure differential
Reliable retention of bacteria and particles

Typical Applications

Vent filter for fermentation, storage tanks Sterile filtration for compressed air, oxygen, nitrogen Single-use system application

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	AFMB(0.2μm)
A - Standard Cartridge (10")	0.68m^2

Materials of Construction

nylene (PTFE)		
Silicone / EPDM / Fluoroelastomer /		

Maximum Differential Pressure

A Ctandard Cartridge	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
A - Standard Cartridge	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
Capsule	Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C
	Reverse: 0.21 MPa @ 25 °C

Integrity Test Standards

Standard - 10inch (0.68m²)	Bubble Point@20°C: ≥0.11MPa, wetted with 60% IPA 40% water
	Air Diffusion@20°C: ≤24ml/min@0.095Mpa, wetted with 60% IPA 40% water
	Water Flow Test@20°C: ≤0.75ml/min@0.25MPa

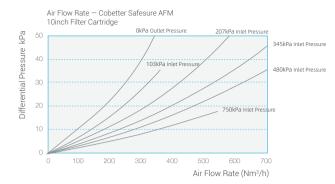
Sterilization

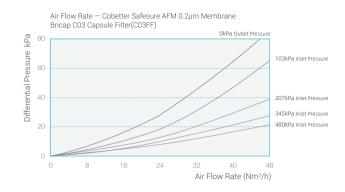
A - Standard Cartridge	Can be steam sterilized for 30 minutes at 145 °C in forward direction(<30kPa) with 100 cycles plus in reverse direction(<10kPa), 150 cycles in total.
	Can be autoclaved 200 cycles for 30 min at 130 °C
Capsule	Autoclavable Capsule Filter: Can be autoclaved 50 cycles for 30 min at 130 °C (Can not be steam sterilized in line)
	Cleansteam Bag Sterile Package: Pre-sterilized by autocalve for 30 min at 121°C

Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization

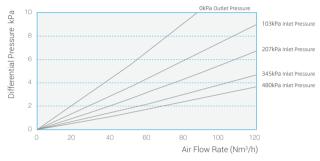


Flow Rates









Regulatory Compliance

- · Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- · Component materials meet the criteria for a "Non-fiber-releasing filter"as defined in 21 CFR 210.3(b)(6).
- $\cdot\,$ Retention of 10 7 cfu/cm 2 Brevundimonas diminuta (ATCC 19146) according to ASTM F838
- · Typical Log Reduction Value (LRV) >7 using >108 pfu Bacteriophage Phi-X174 (ATCC 13706-B1)
- $\cdot \ \, \text{Aqueous extraction from a cartridge contains less than 0.25 EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP < 85 >. \\$
- · Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- \cdot Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- $\cdot \ \, \text{Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.}$

Safesure AFM Filter

Ordering Information

Filter Cartridge Cartridge Format Membrane Type Length Code O-ring Material A Standard Cartridge AFMB AFM 0.2µm **02** 2.5 inch 0 DOE S Silicone Pharmaceutical **05** 5 inch 2 226 / Flat E EPDM Grade 7 226 / Fin 10 10 inch V Fluoroelastomer 3 222 / Flat P FEP/PFA encapsulated O-rings **20** 20 inch 8 222 / Fin 30 inch 6 222 / 3-Flange **40** 40 inch bayonet / Fin **Bricap C Series Capsule Filter** Housing Type Capsule Format Inlet/Outlet Quantity/Package Membrane Type Sterilization Blank Standard Bricap C01 T 19 mm(3/4") Sanitary Flange **AFMB** AFM 0.2μm 1 1 /pkg A Autoclavable Pharmaceutical Transparent C02 Bricap C02 14 mm (9/16") Sanitary Flange C Sterile Package Grade 31 mm (1 1/4") Sanitary Flange C03 Bricap C03 V 14 mm (9/16") Hose Barb **H** 13 mm (1/2") Hose Barb 9.6 mm (3/8") Hose Barb 3.2 mm (1/8") Hose Barb 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell)

Bricap D Series Capsule Filter

Inlet/Outlet

Capsule Format

D01 Bricap D01

- **B** 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell)
- 6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell (Outlet only)

Bricap L Series Ca	psule Filter						
Housing Type	Capsule Format	Inlet/Outlet	Memb	orane Type	Sterilization	Quantity/Package	P
Blank Standard K Transparent Bricap T Series Ca	L02 Bricap L02 L03 Bricap L03 L05 Bricap L05 L10 Bricap L10 L20 Bricap L20 L30 Bricap L30 psule Filter	 S 38 mm (1 1/2") Sanitary Flant T 19 mm (3/4") Sanitary Flant K 14 mm (9/16") Sanitary Flant D 25 mm (1") Hose Barb M 19 mm (3/4") Hose Barb X 16 mm (5/8") Hose Barb V 14 mm (9/16") Hose Barb H 13 mm (1/2") Hose Barb Y 9.6 mm (3/8") Hose Barb 	e	AFM 0.2μm	A Autoclavable	1 1 /pkg	Pharmaceutical Grade
Capsule Format	Inlet/Outlet	Gauge Port Type					
T10 Bricap T10 T20 Bricap T20 T30 Bricap T30	SS 38 mm (1 1/2") \$ Flange Inlet & Ou SM 38 mm (1 1/2") \$ Flange Inlet & 19 (3/4") Hose Barb	utlet Sanitary Flange Sanitary T 19 mm (3/4") 9 mm Sanitary Flange	Port .				
Brisip SP3 Series	Capsule Filter					Р	

Vent and Drain Valves

P Both using 6 mm hose barb

T Both using quick coupling

X Vent valve using quick coupling

(compatible with Stäubli connector), and drain valve using 6 mm hose barb

(compatible with Stäubli connector)

Quantity/Package

Pharmaceutical

Grade

1 1 /pkg

Membrane Type

AFMB AFM 0.2µm

Capsule Format

SP3 Brisip SP3

Inlet/Outlet

S 38 mm (1 1/2")

Sanitary Flange

Gas Filtration Series

Aegivast ACE Filter Hydrophobic Filter with High Retention Rate



Features

Inherently hydrophobic membrane
High retention rate
Low differential pressure
Reliable retention of bacteria and particles
Gamma irradiation compatiable

Typical Applications

Vent filter for fermentation, storage tanks Sterilizing for compress air, oxygen, nitrogen etc. Used in single-use system

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

Membrane Type	ACEB	ACEB	ACEB	ACEB	ACEB	ACEB	ACEB
Removal Ratings	0.2 μm	0.2 μm	0.2 μm	0.2 μm	0.2 μm	0.2 μm	0.2 μm
Format	U13	U25	U33	V37	V42	V5A	V5D
Filtration Area	0.72 cm ²	3.4 cm ²	4.5 cm ²	7 cm²	13.8 cm²	20 cm²	20 cm ²

Material of Construction

Membrane	Hydrophobic Polytetrafluoroethylene (PTFE)
Support	Polyester(Code S and Code G) or Polypropylene(Code A)
Housing	Polypropylene (PP)

Maximum Pressure Diffenrential

U13	Forward: 0.6 MPa @ 25 °C	V37	Forward: 0.24 MPa @25 °C
U25	Forward: 0.3 MPa @ 25 °C	V42	Forward: 0.24 MPa @25 °C
U33	Forward: 0.2 MPa @ 25 °C	V5A	Forward: 0.24 MPa @25 °C
		V5D	Forward: 0.42 MPa @25 °C

Integrity Test Standards

U13 & U25 & U33	Bubble Point@20: ≥0.11MPa, wetted with 60% IPA 40% water, air
V37 & V42 & V5A & V5D	Bubble Point@20: ≥0.11MPa, wetted with 60% IPA 40% water, air

Sterilization

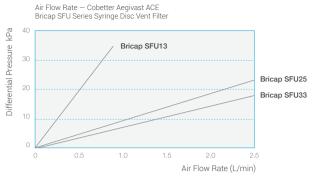
Gamma-Compatible	Can be sterilized by gamma irradiation at 25-45kGγ
Syringe Filter	Can be autoclaved for 20 cycles of 30min at 134 °C(Can not be steam sterilized in line)
Sterile Syringe Filter	Pre-sterilized by gamma irradiation at 25-45kGγ, can not be re-sterilized

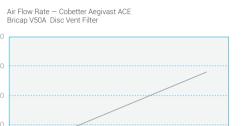
Sterilization

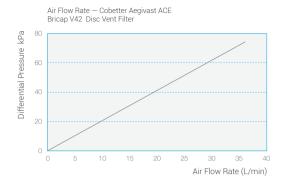
Gamma-Compatible Vent Filter	Can be sterilized by gamma irradiation at 25-45kGy					
	Or can be autoclaved for 20 cycles of 30min at 134°C (Can not be steam sterilized in line)					
Sterile Vent Disc Fiter	Pre-sterilized by gamma irradiation at 25-45kGγ, can not be re-sterilized					
Autoclavable Vent Disc Filter	Can be autoclaved for 20 cycles of 30min at 130°C (Can not be steam sterilized in line)					

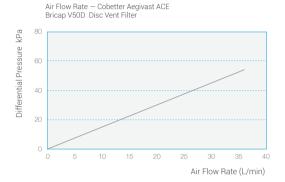
Flow Rates

Differential Pressure kPa









Regulatory Compliance

- · Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- · Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3(b)(6).

Air Flow Rate (L/min)

- · Retention of 107 cfu/cm2 Brevundimonas diminuta (ATCC 19146) according to ASTM F838
- · Aqueous extraction from a cartridge contains less than 0.25EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>.
- · Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- · Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- · Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.

Aegivast ACEB Filter

Ordering Information

Notes: Contact Cobetter for more specification details.

Bricap SFU Series Syringe Filter Inlet/Outlet Syringe Filter Format U13 Bricap SFU13 CP Female luer lock inlet and U25 Bricap SFU25 male luer lock outlet U33 Bricap SFU33 **Bricap V Series Syringe Filter** Inlet/Outlet Vent Disc Filter Format V37 Bricap V37 **EE** 6-9 mm (1/4"-3/8") Stepped Hose V42 Bricap V42 Barb Inlet and Outlet (Only Bricap V37 & V42) V5A Bricap V50A BB 6-13 mm (1/4"-1/2") Stepped Hose V5D Bricap V50D

Barb Inlet and Outlet



Clarification Filter Series



Features

Gradient pore structure to significantly enhance dirt-holding capacity A multi-layer structure with increasing precision Capable of graded particle retention, extending the filter's service time Great particle retention efficiency

Typical Applications

Fermentation broth Pre-filtration blood products/serums Pre-filtration of colloids/viscous liquids

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	CHT(0.2µm)	CHT(0.5µm)	CHT(1.0µm)	CHT(2.0µm)	CHT(5.0µm)	CHT1X(10µm)	CHT2X(20µm)	CHT7X(70μm)
A - Standard Cartridge (10")	0.20 m ²	0.28 m ²	0.25m ²	0.25m ²	0.25m ²	0.25m ²	0.28m ²	0.28m ²

Materials of Construction

Membrane	Polypropylene (PP)
Support/Core/Cage/End Caps	Polypropylene (PP)
End Cap Inserts	Polybutylene terephthalate (PBT) (Cartridge Exclusive)
O-rings	Silicone / EPDM / Fluoroelastomer / PFA encapsulated O-rings
Capsule Housing	Polypropylene (PP)
Capsule Vent O-rings	Silicone

Maximum Differential Pressure

A - Standard Cartridge	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
	Reverse : 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
Conquilo	Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C
Capsule	Reverse: 0.21 MPa @ 25 °C

Particle Retention Rates(%)

Filter	1.0µm	2.0µm	5.0µm	10µm	20µm	40µm	70µm
CHT02	≥99.90	≥99.90	≥99.90	≥99.99	≥99.99	≥99.99	≥99.99
CHT05	≥99.00	≥99.50	≥99.90	≥99.90	≥99.99	≥99.99	≥99.99
CHT10	≥98.00	≥99.00	≥99.50	≥99.90	≥99.98	≥99.99	≥99.99
CHT20	_	≥98.00	≥99.00	≥99.50	≥99.90	≥99.98	≥99.99
CHT50	_	_	≥98.00	≥99.00	≥99.50	≥99.90	≥99.98
CHT1X	_	_	_	≥98.00	≥99.00	≥99.50	≥99.90
CHT2X	_	_	_	_	≥98.00	≥99.00	≥99.50
CHT4X	_	_	_	_	_	≥98.00	≥99.00
CHT7X	_	_	_	_	_	_	≥98.00

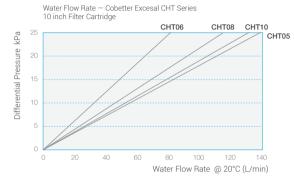


Sterilization

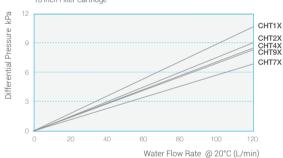
A - Standard Cartridge	Can be steam sterilized for 30 minutes at 125 °C with 20 cycles (< 30 kPa)
	Can be autoclaved 20 cycles for 30 minutes at 125°C
Capsule	Autoclavable capsules only: Can be autoclaved 20 cycles for 30 minutes at 125°C, (Can not be steam sterilized in-line)
	Gamma compatible capsules: Can be sterilized by gamma irradiation at 25-45 kGy or can be autoclaved 5 cycles for 60 minutes at 126 °C. (Can not be steamed in-line)
	Sterile capsule: Products that have been gamma-sterilized cannot be re-sterilized using gamma irradiation or steam sterilization
	Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121°C

Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization

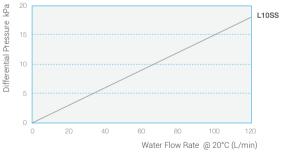
Flow Rates

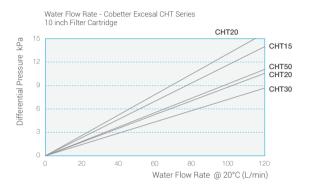


Water Flow Rate - Cobetter Excesal CHT Series 10 inch Filter Cartridge

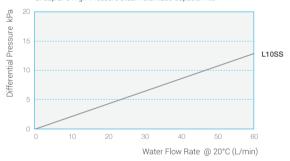


Water Flow Rate — Cobetter Excesal CHT 2.0 µm Membrane Bricap L10 Gamma-Resistant Capsule Filter





Water Flow Rate — Cobetter Excesal CHT 0.8 µm Membrane Bricap L10 High-Pressure Steam Sterilized Capsule Filter



Regulatory Compliance

- \cdot Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- · Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3(b)(6).
- · Aqueous extraction from a cartridge contains less than 0.25EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>.
- · Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- · Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- $\cdot \ \, \text{Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.}$

Cobetter Excesal CHT Filter

Ordering Information

Filter Cartridge Cartridge Format Membrane Type Length Code O-ring Material **CHT02** CHT 0.2 μm A Standard Cartridge **05** 5 inch 0 DOE S Silicone Pharmaceutical **CHT05** CHT 0.5 μm 10 10 inch 2 226 / Flat E EPDM Grade CHT06 CHT 0.6 µm 7 226 / Fin **20** 20 inch V Fluoroelastomer 3 222 / Flat **CHT08** CHT 0.8 μm P FEP/PFA encapsulated O-rings 30 inch 8 222 / Fin **CHT10** CHT 1.0 μm **40** 40 inch 6 222 / 3-Flange **CHT15** CHT 1.5 μm bayonet / Fin CHT20 CHT 2.0 μm CHT50 CHT 5.0 μm CHT1X CHT 10 µm CHT2X CHT 20 µm CHT4X CHT 40 µm CHT7X CHT 70 µm CHT9X CHT 90 µm **Bricap C Series Capsule Filter** Quantity/Package Membrane Type Sterilization Capsule Format Inlet/Outlet Housing Type **CHT02** CHT 0.2 μm A Autoclavable 1 1 /pkg **Pharmaceutical** CHT 0.5 µm Blank Standard CO3 Bricap CO3 19 mm(3/4") Sanitary Flange CHT05 G Gamma Compatible Grade т Transparent 14 mm (9/16") Sanitary Flange CHT06 CHT 0.6 µm Sterile 31 mm (1 1/4") Sanitary Flange CHT08 CHT 0.8 µm Cleansteam Bag 14 mm (9/16") Hose Barb CHT10 CHT 1.0 um Sterile Package 13 mm (1/2") Hose Barb CHT15 CHT 1.5 µm 9.6 mm (3/8") Hose Barb CHT20 CHT 2.0 µm 3.2 mm (1/8") Hose Barb ī. CHT50 CHT 5.0 µm 6-13 mm (1/4"-1/2") Stepped CHT1X CHT 10 µm Hose Barb (No Filling Bell) CHT2X CHT 20 µm 6-13 mm (1/4"-1/2") Stepped CHT4X CHT 40 µm Hose Barb with Filling Bell CHT 70 µm CHT7X (Outlet only) CHT9X CHT 90 µm **Bricap D Series Capsule Filter** Capsule Format Inlet/Outlet D01 Bricap D01 **B** 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell) 6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell (Outlet only) **Bricap L Series Capsule Filter** Housing Type Inlet/Outlet Capsule Format Blank Standard L02 Bricap L02 S 38 mm (1 1/2") Sanitary Flange Transparent L03 Bricap L03 т 19 mm (3/4") Sanitary Flange L05 Bricap L05 K 14 mm (9/16") Sanitary Flange L10 Bricap L10 D 25 mm (1") Hose Barb M 19 mm (3/4") Hose Barb 120 Bricap L20 L30 Bricap L30 16 mm (5/8") Hose Barb 14 mm (9/16") Hose Barb 13 mm (1/2") Hose Barb 9.6 mm (3/8") Hose Barb **Bricap T Series Capsule Filter** Capsule Format Inlet/Outlet Gauge Port Type **SS** 38 mm (1 1/2") Sanitary **S** 38 mm (1 1/2") T10 Bricap T10 T20 Bricap T20 Flange Inlet & Outlet Sanitary Flange SM 38 mm (1 1/2") Sanitary T30 Bricap T30 19 mm (3/4")

Flange Inlet & 19 mm

(3/4") Hose Barb Outlet

Sanitary Flange

Without Gauge Port

Clarification Filter Series

Excesal CHE Filter Clarification Filter with High Retention Rate



Features

Inner layer uses nanofibers for high retention rate Double-layer structure with increasing precision High dirt-holding capacity and long service time

Typical Applications

Fermentation broth
Pre-filtration blood products/serums
Pre-filtration of colloids/viscous liquids

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	CHE(0.2µm)	CHE(0.3µm)	CHE(0.5µm)	CHE(0.65µm)	CHE(0.8µm)	CHE(1.0µm)	CHE(3.0µm)	CHE(5.0µm)
A - Standard Cartridge (10")	0.48 m ²	0.39 m ²	0.41m ²	0.52m ²	0.55m ²	0.52m ²	0.52m ²	0.57m ²

Materials of Construction

Membrane	Polypropylene (PP)
Support	Polypropylene (PP)
Core/Cage/End Caps	Polybutylene terephthalate (PBT)
	(Cartridge exclusive)
O-ring	Silicone / EPDM / Fluoroelastomer /
	PFA encapsulated O-rings
Capsule Housing	Polypropylene (PP)
Capsule Vent O-rings	Silicone

Maximum Differential Pressure

A - Standard Cartridge	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C
	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C
Canaula	Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C
Capsule	Reverse: 0.21 MPa @ 25 °C

Particle Retention Rates(%)

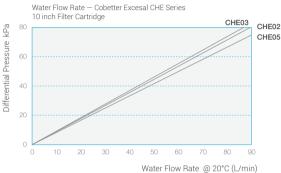
Filter	1.0µm	3.0µm	4.0µm	5.0µm	6.0µm	7.0µm	10μm	20µm
CHE 0.2µm	≥99.99	≥99.99	≥99.99	≥99.99	≥99.99	≥99.99	≥99.99	≥99.99
CHE 0.3µm	≥99.98	≥99.99	≥99.99	≥99.99	≥99.99	≥99.99	≥99.99	≥99.99
CHE 0.5µm	≥99.90	≥99.98	≥99.99	≥99.99	≥99.99	≥99.99	≥99.99	≥99.99
CHE 0.65µm	≥99.50	≥99.90	≥99.98	≥99.99	≥99.99	≥99.99	≥99.99	≥99.99
CHE 0.8µm	≥99.20	≥99.50	≥99.90	≥99.98	≥99.99	≥99.99	≥99.99	≥99.99
CHE 1.0µm	≥99.00	≥99.20	≥99.50	≥99.90	≥99.98	≥99.99	≥99.99	≥99.99
CHE 3.0µm	_	≥99.00	≥99.20	≥99.50	≥99.90	≥99.98	≥99.99	≥99.99
CHE 5.0µm	_	_	_	≥99.00	≥99.20	≥99.50	≥99.90	≥99.98

Sterilization

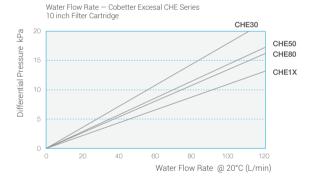
A - Standard Cartridge	Can be steam sterilized for 30 minutes at 125 °C with 20 cycles (< 30 kPa)
A = Staridard Cartridge	Can be autoclaved 20 cycles for 30 minutes at 125°C
Capsule	Autoclavable capsules only: Can be autoclaved 20 cycles for 30 minutes at 125°C, (Can not be steam sterilized in-line)
Оарзаіс	Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121°C

Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization

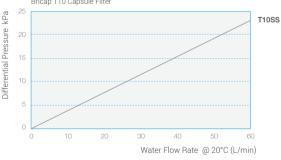
Flow Rates





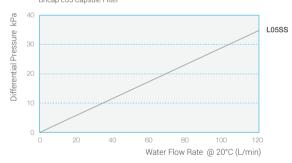


Water Flow Rate — Cobetter Excesal CHE 20µm Membrane Bricap T10 Capsule Filter



Water Flow Rate — Cobetter Excesal CHE Series 10 inch Filter Cartridge Differential Pressure kPa CHE06 CHE08 CHE10 Water Flow Rate @ 20°C (L/min)

Water Flow Rate — Cobetter Excesal CHE 5.0 µm Membrane Bricap L05 Capsule Filter



Regulatory Compliance

- · Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- · Component materials meet the criteria for a "Non-fiber-releasing filter"as defined in 21 CFR 210.3(b)(6).
- · Aqueous extraction from a cartridge contains less than 0.25EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>.
- · Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- · Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- · Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.



Cobetter Excesal CHE Filter

Ordering Information

Filter Cartridge Cartridge Format Membrane Type Length Code O-ring Material **CHE02** CHE 0.2 μm A Standard Cartridge **05** 5 inch 0 DOE S Silicone Pharmaceutical **CHE03** CHE 0.3 μm 2 226 / Flat **10** 10 inch E EPDM Grade CHE05 CHE 0.5 µm **7** 226 / Fin 20 20 inch V Fluoroelastomer **CHE06** CHE 0.65 μm 3 222 / Flat **30** 30 inch P FEP/PFA encapsulated O-rings 8 222 / Fin **CHE08** CHE 0.8 μm **40** 40 inch 6 222 / 3-Flange CHE10 CHE 1.0 µm bayonet / Fin CHE30 CHE 3.0 um CHE50 CHE 5.0 μm CHE80 CHE 8.0 µm CHE1X CHE 10 µm CHE2X CHE 20 µm **Bricap C Series Capsule Filter** Quantity/Package Membrane Type Sterilization Capsule Format Inlet/Outlet Housing Type CHE02 CHE 0.2 µm A Autoclavable 1 1 /pkg **Pharmaceutical** Blank Standard CO3 Bricap CO3 19 mm(3/4") Sanitary Flange CHE03 CHE 0.3 µm C Cleansteam Bag Grade т Transparent 14 mm (9/16") Sanitary Flange **CHE05** CHE 0.5 μm Sterile Package 31 mm (1 1/4") Sanitary Flange CHE06 CHE 0.65 μm 14 mm (9/16") Hose Barb CHE08 CHE 0.8 um 13 mm (1/2") Hose Barb **CHE10** CHE 1.0 μm 9.6 mm (3/8") Hose Barb **CHE30** CHE 3.0 μm 3.2 mm (1/8") Hose Barb ī. **CHE50** CHE 5.0 μm 6-13 mm (1/4"-1/2") Stepped CHE80 CHE 8.0 μm Hose Barb (No Filling Bell) CHE1X CHE 10 µm 6-13 mm (1/4"-1/2") Stepped CHE2X CHE 20 µm Hose Barb with Filling Bell (Outlet only) **Bricap D Series Capsule Filter** Capsule Format Inlet/Outlet D01 Bricap D01 **B** 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell) 6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell (Outlet only) **Bricap L Series Capsule Filter** Housing Type Inlet/Outlet Capsule Format Blank Standard S 38 mm (1 1/2") Sanitary Flange L02 Bricap L02 Transparent Bricap L03 19 mm (3/4") Sanitary Flange L03 т L05 Bricap L05 K 14 mm (9/16") Sanitary Flange L10 Bricap L10 D 25 mm (1") Hose Barb M 19 mm (3/4") Hose Barb 120 Bricap L20 L30 Bricap L30 16 mm (5/8") Hose Barb 14 mm (9/16") Hose Barb 13 mm (1/2") Hose Barb 9.6 mm (3/8") Hose Barb **Bricap T Series Capsule Filter** Capsule Format Inlet/Outlet Gauge Port Type SS 38 mm (1 1/2") Sanitary **S** 38 mm (1 1/2") T10 Bricap T10 T20 Bricap T20 Flange Inlet & Outlet Sanitary Flange SM 38 mm (1 1/2") Sanitary T30 Bricap T30 19 mm (3/4")

Sanitary Flange

Without Gauge Port

Flange Inlet & 19 mm

(3/4") Hose Barb Outlet

Clarification Filter Series

Greclary CHV Filter High Throughput Filter



Features

Fine glass fibers as the filtration medium Rigid fiber material, suitable for colloid filtration High dirt-holding capacity and high retention rate Low initial pressure drop, high flow rate, and long service time

Typical Applications

Fermentation broth Pre-filtration blood products/serums Pre-filtration of colloids/viscous liquids

Quality Control

100% integrity testing in manufacturing Each filter is fully traceable with unique serial number ISO 9001:2015 manufacturing facility

Removal Rating and Effective Filtration Area

	CHV(0.2µm)	CHV(0.45µm)	CHV(1.0µm)	CHV10P(1.0µm)
A - Standard Cartridge (10")	0.28 m ²	0.28 m ²	0.28m²	0.28m ²

Materials of Construction

Membrane	Polypropylene (PP)		
Support	Polypropylene (PP)		
Core/Cage/End Caps	Polybutylene terephthalate (PBT)		
	(Cartridge exclusive)		
O-ring	Silicone / EPDM / Fluoroelastomer /		
	PFA encapsulated O-rings		
Capsule Housing	Polypropylene (PP)		
Capsule Vent O-rings	Silicone		

Maximum Differential Pressure

A - Standard Cartridge	Forward: 0.69 MPa @ 25 °C, 0.40 MPa @ 60 °C, 0.24 MPa @ 80 °C	
	Reverse: 0.30 MPa @ 25 °C, 0.10 MPa @ 80 °C	
Capsule	Forward: 0.55 MPa @ 25 °C, 0.1 MPa @ 80 °C	
	Reverse: 0.21 MPa @ 25 °C	

Particle Retention Rates(%)

Filter	1.0µm	3.0µm	5.0µm	10μm	20µm
CHV02	≥99.99	≥99.99	≥99.99	≥99.99	≥99.99
CHV04	≥99.92	≥99.98	≥99.99	≥99.99	≥99.99
CHV10	≥99.00	≥99.20	≥99.90	≥99.99	≥99.99
CHV10P	≥99.00	≥99.20	≥99.90	≥99.99	≥99.99

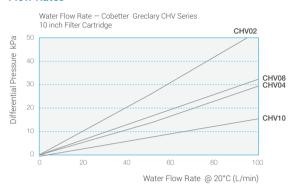
Sterilization

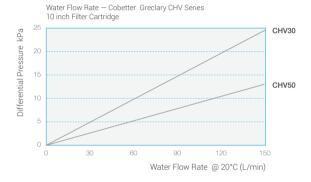
A - Standard Cartridge	Can be steam sterilized for 30 minutes at 125 °C with 20 cycles (< 30 kPa)
	Can be autoclaved 20 cycles for 30 minutes at 125°C
Capsule	Autoclavable capsules only: Can be autoclaved 20 cycles for 30 minutes at 125°C, (Can not be steam sterilized in-line)
	Cleansteam bag sterile package: Pre-sterilized with autoclave for 30 minutes at 121°C

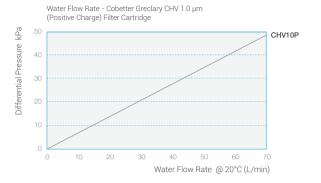
Notes: Gamma sterilized products cannot be re-sterilized with gamma irradiation or steam sterilization

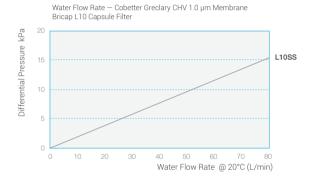


Flow Rates









Regulatory Compliance

- · Effluent meets the USP<788> requirement of particulate matter in large volume injection.
- · Component materials meet the criteria for a "Non-fiber-releasing filter"as defined in 21 CFR 210.3(b)(6).
- · Aqueous extraction from a cartridge contains less than 0.25EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>.
- \cdot Components meet the requirement of USP <87> In Vitro Biological Reactivity Test.
- · Components meet the criteria of the USP <88> Biological Reactivity Test for Class V-121 °C plastics.
- · Components meet the FDA indirect Food Additive requirements cited in 21 CFR177-182.
- · Based on the current information from our suppliers, all components used in the manufacture of this product are animal-free.

Cobetter Greclary CHV Filter

Ordering Information

Filter Cartridge Cartridge Format Membrane Type Length Code O-ring Material CHV02 CHV 0.2 µm A Standard Cartridge **05** 5 inch 0 DOE S Silicone CHV04 CHV 0.45 μm 2 226 / Flat **10** 10 inch E EPDM CHV06 CHV 0.65 μm **7** 226 / Fin 20 20 inch V Fluoroelastomer **CHV08** CHV 0.8 μm 3 222 / Flat **30** 30 inch P FEP/PFA encapsulated O-rings CHV10 CHV 1.0 um 8 222 / Fin **40** 40 inch 6 222 / 3-Flange CHV10PCHV 1.0 µm (Positive Charge) bayonet / Fin CHV30 CHV 3.0 μm

Pharmaceutical

Р

Grade

Bricap C Series Capsule Filter

CHV50 CHV 5.0 μm

Quantity/Package Membrane Type Sterilization Housing Type Capsule Format Inlet/Outlet **CHV02** CHV 0.2 μm A Autoclavable 1 1 /pkg Pharmaceutical CO3 Bricap CO3 Blank Standard T 19 mm(3/4") Sanitary Flange **CHV04** CHV 0.45 μm C Cleansteam Bag Grade Transparent 14 mm (9/16") Sanitary Flange **CHV06** CHV 0.65 μm Sterile Package 31 mm (1 1/4") Sanitary Flange CHV08 CHV 0.8 µm ٧ 14 mm (9/16") Hose Barb CHV10 CHV 1.0 um **H** 13 mm (1/2") Hose Barb CHV10P CHV 1.0 µm (Positive Charge) Y 9.6 mm (3/8") Hose Barb CHV30 CHV 3.0 μm L 3.2 mm (1/8") Hose Barb CHV50 CHV 5.0 μm **B** 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell)

Bricap D Series Capsule Filter

D01 Bricap D01

Capsule Format Inlet/Outlet

B 6-13 mm (1/4"-1/2") Stepped Hose Barb (No Filling Bell)

6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell

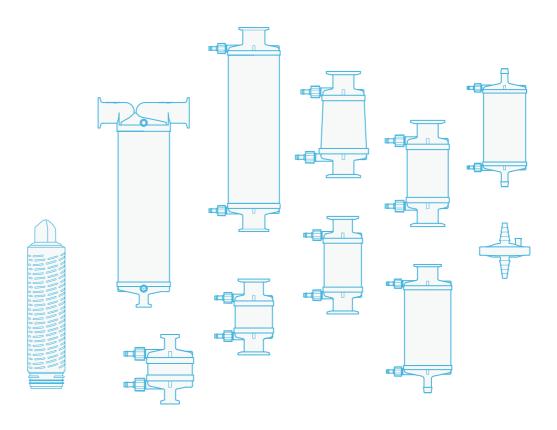
(Outlet only)

A 6-13 mm (1/4"-1/2") Stepped Hose Barb with Filling Bell (Outlet only)

Bricap L Series Capsule Filter Р Quantity/Package Membrane Type Sterilization Housing Type Inlet/Outlet Capsule Format **CHV02** CHV 0.2 µm A Autoclavable 1 1 /pkg Pharmaceutical Blank Standard **CHV04** CHV 0.45 μm C Cleansteam Bag Grade 38 mm (1 1/2") Sanitary Flange L02 Bricap L02 Sterile Package Transparent **CHV06** CHV 0.65 μm L03 Bricap L03 19 mm (3/4") Sanitary Flange Т **CHV08** CHV 0.8 μm Bricap L05 14 mm (9/16") Sanitary Flange L05 **CHV10** CHV 1.0 μm Bricap L10 25 mm (1") Hose Barb L10 CHV10P CHV 1.0 µm (Positive Charge) L20 Bricap L20 M 19 mm (3/4") Hose Barb **CHV30** CHV 3.0 μm X 16 mm (5/8") Hose Barb L30 Bricap L30 **CHV50** CHV 5.0 μm 14 mm (9/16") Hose Barb 13 mm (1/2") Hose Barb 9.6 mm (3/8") Hose Barb **Bricap T Series Capsule Filter** Capsule Format Inlet/Outlet Gauge Port Type **SS** 38 mm (1 1/2") Sanitary **S** 38 mm (1 1/2") T10 Bricap T10 T20 Bricap T20 Flange Inlet & Outlet Sanitary Flange 19 mm (3/4") **SM** 38 mm (1 1/2") Sanitary T30 Bricap T30 Flange Inlet & 19 mm Sanitary Flange (3/4") Hose Barb Outlet Without Gauge Port

Our Mission

Through Excellent Products & Sustainable Innovative Solutions, We Help Customers Solve Process Problems & Increase Yield.





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