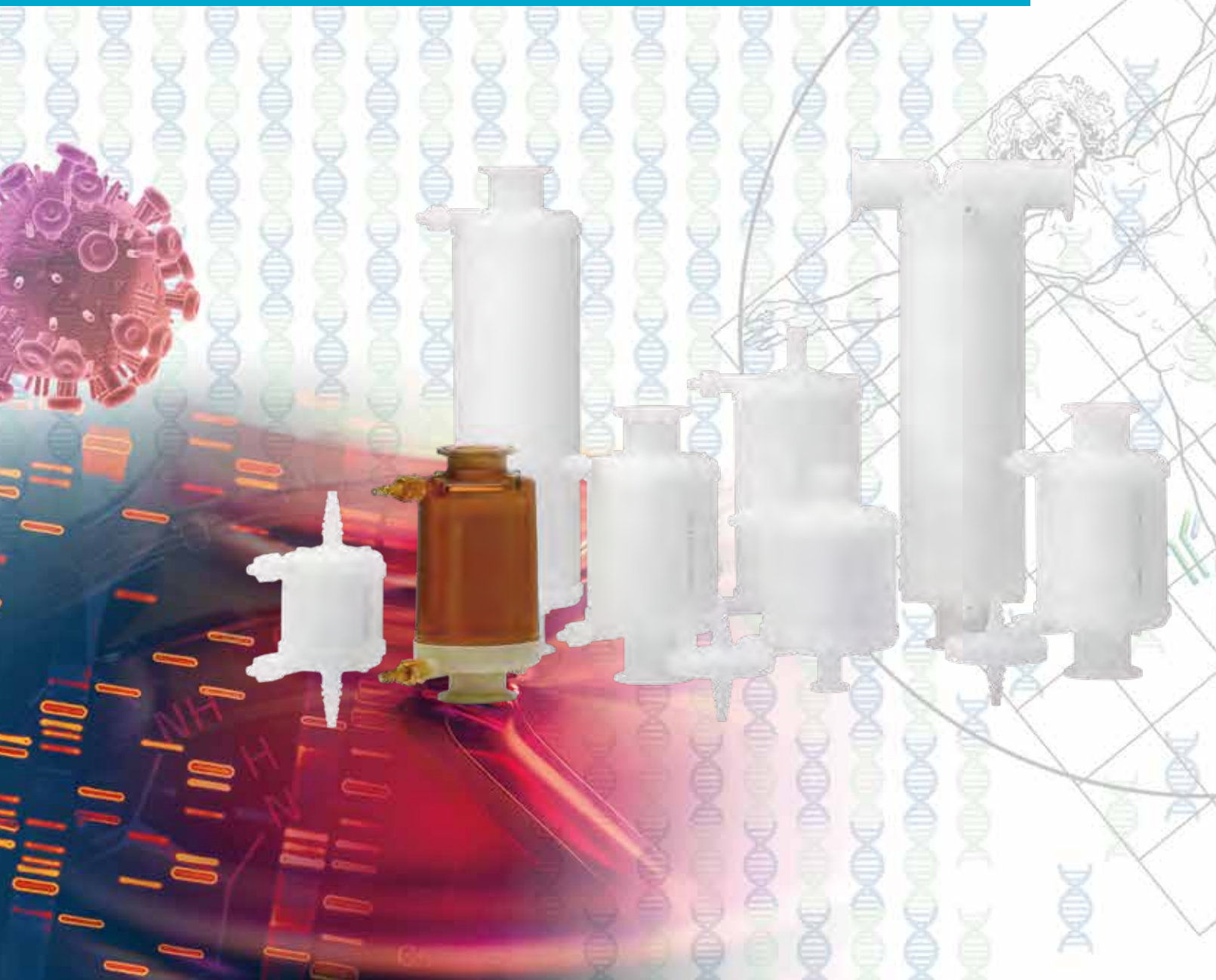
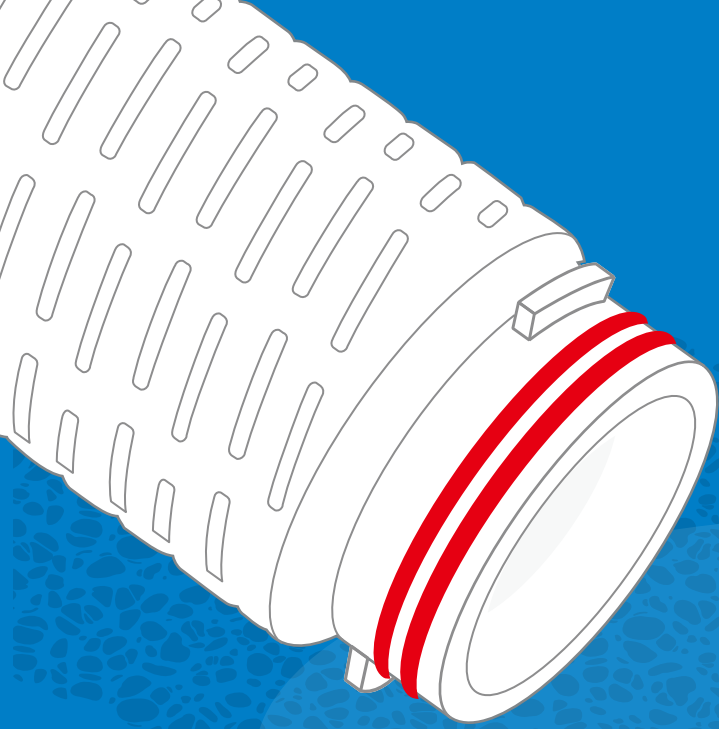


Filtration, Separation & Purification Solutions for Biopharma Applications





Filtration Separation Purification



Cobetter dedicates itself to providing Filtration, Separation, & Purification

Solutions across all industries. Cobetter provides over **5,400+** technical analysis reports annually for customers in the pharmaceutical industry and over **2,500+** technical analysis reports annually for customers in chemical, microelectronics and life sciences industries

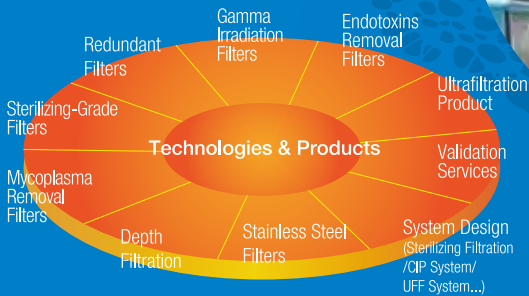
Membrane Manufacturing

AVL Center

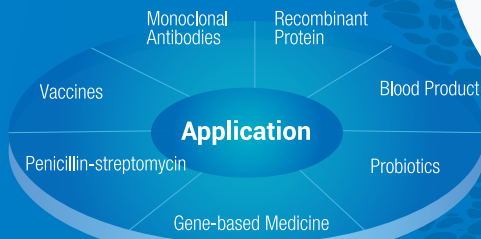
Filter Manufacturing

Housing Manufacturing

Technologies & Products



Application



C1 Factory
Membrane Filter Manufacturing
9400 SQM

C2 Factory
Depth Filter Manufacturing
9000 SQM

C3 Factory
Semiconductor & Biological
Filter Manufacturing
13500 SQM

C4 Factory
Stainless Filter Manufacturing
& Fluoroplastics Resurtech Manufacturing
& Housing Manufacturing
28000 SQM

C5 Lab
Semi-litho Filter
AVL Center 41000 SQM
Semi-litho Filter 2800*4 SQM

C6 Life Center
Life Center 33000 SQM

C7 Factory
Bio-materials Research Center
1300 SQM

C11 Semiconductor Ultra-pure water
Degassing Membrane
66500 SQM, 2025

C12 Biopharma & Semiconductor
filtration products manufacturing
60000 SQM 2025.6





Validation Expert
 Taketomi Hidetoshi, Japanese
 Previous Pall Lab Expert for
 More Than 30 Years.



AVL Center

Accredited by China National Accreditation Service for Conformity (CNAS)
 Established with an initial 31million USD investment



ISO 17025

200+ Equipments

180+ SOP

300+ Engineers



Life & Science Validation Center

- ① ⑥ **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
- ④ **UPLC/MS** : Determine the nonvolatile and semivolatile of extractable & leachables quantitatively and qualitatively
- ⑤ **GC-MS** : Determine volatile/semi-volatile status of extractables and leachables quantitatively and qualitatively
- ② **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 oligomers in non-volatile extractable & leachables qualitatively
- ③ **SEM/EDS** : Analyze filter membrane defect, appearance, and impurities. SEM analysis of chemical compatibility

Advanced Japanese 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

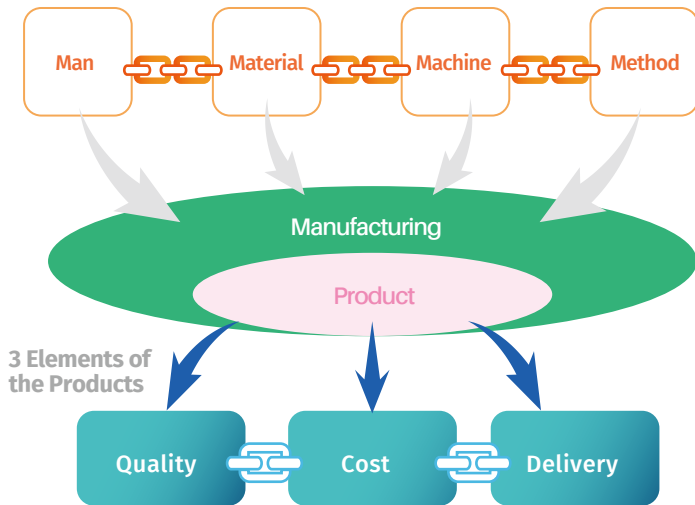
Implement 4M Quality Management Concept
 - Process and System Simultaneous Completion

All Products are based on the QC Project Table
 - Produced as per SOP for Stable Production



4M Manufacture

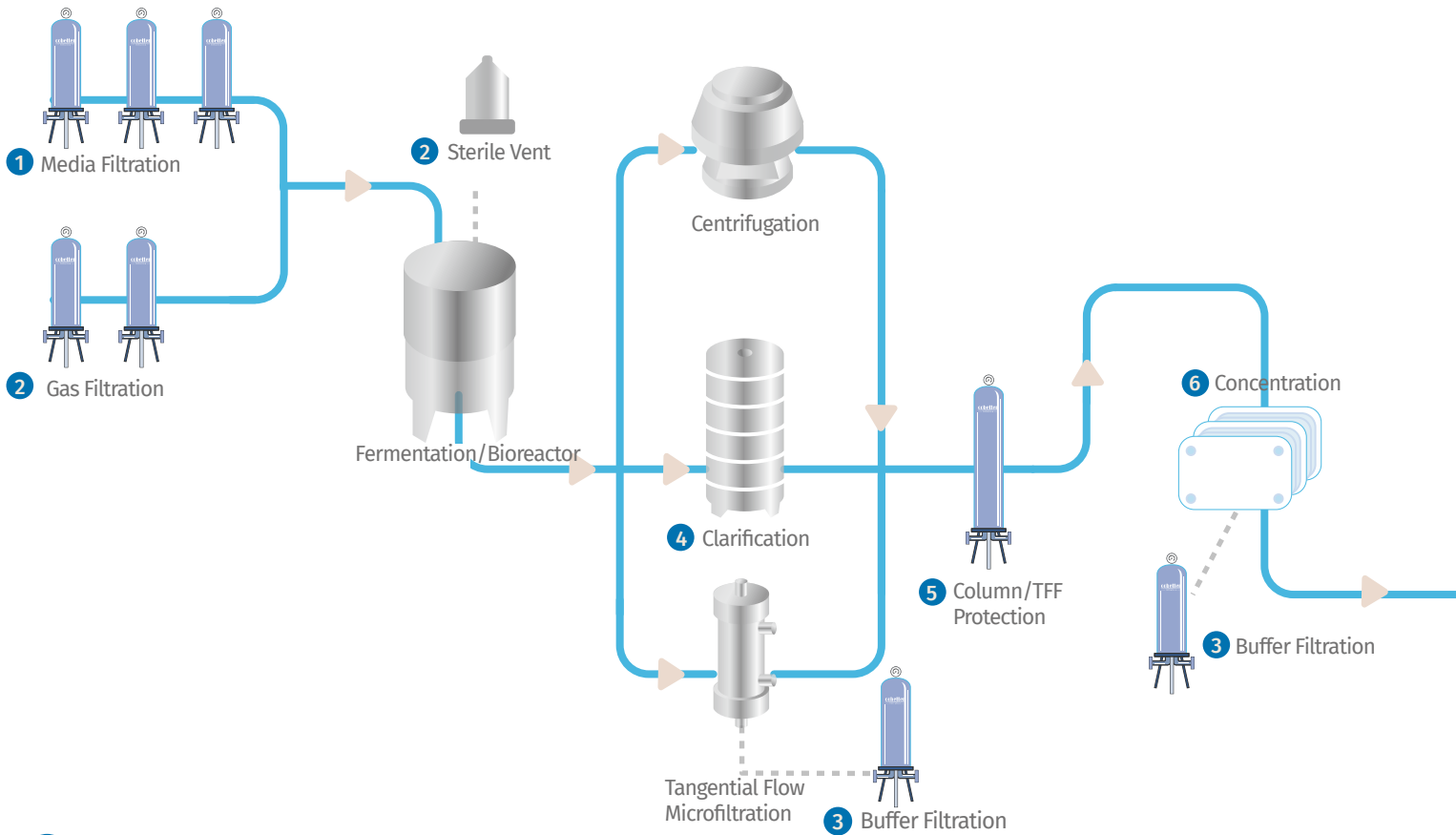
Input



Output



Flow Diagram of Bioprocess



1 Media Filtration

Bioburden Reduction and Particle Control

- Greclary CHV -Glass Fiber
- Safetect PME -PES
- Purcise PLE -Double Layer PES
- Purcise PAF -PES
- Corevital PMD -PVDF

Sterilizing-grade Filtration

- Purcise SLE -Double Layer PES
- Purcise SPS -PES
- Corevital SMD -PVDF
- Corevital SND -PVDF

Mycoplasma Removal

- Purcise MLE -Double Layer PES

2 Vent and Gas Filtration

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

3 Buffer Filtration

- Purcise PLE -Double Layer PES
- Purcise PAF -PES
- Safetect PME -PES
- Corevital SAF -Double Layer PES
- Purcise SLE -Double Layer PES
- Purcise SPS -PES
- Corevital SMD -PVDF

4 Clarification Filtration

- Roheap CSD

6 Concentration and Purification

- Consieve UET -PES&RC

5 Column / TFF Protection

Clarification

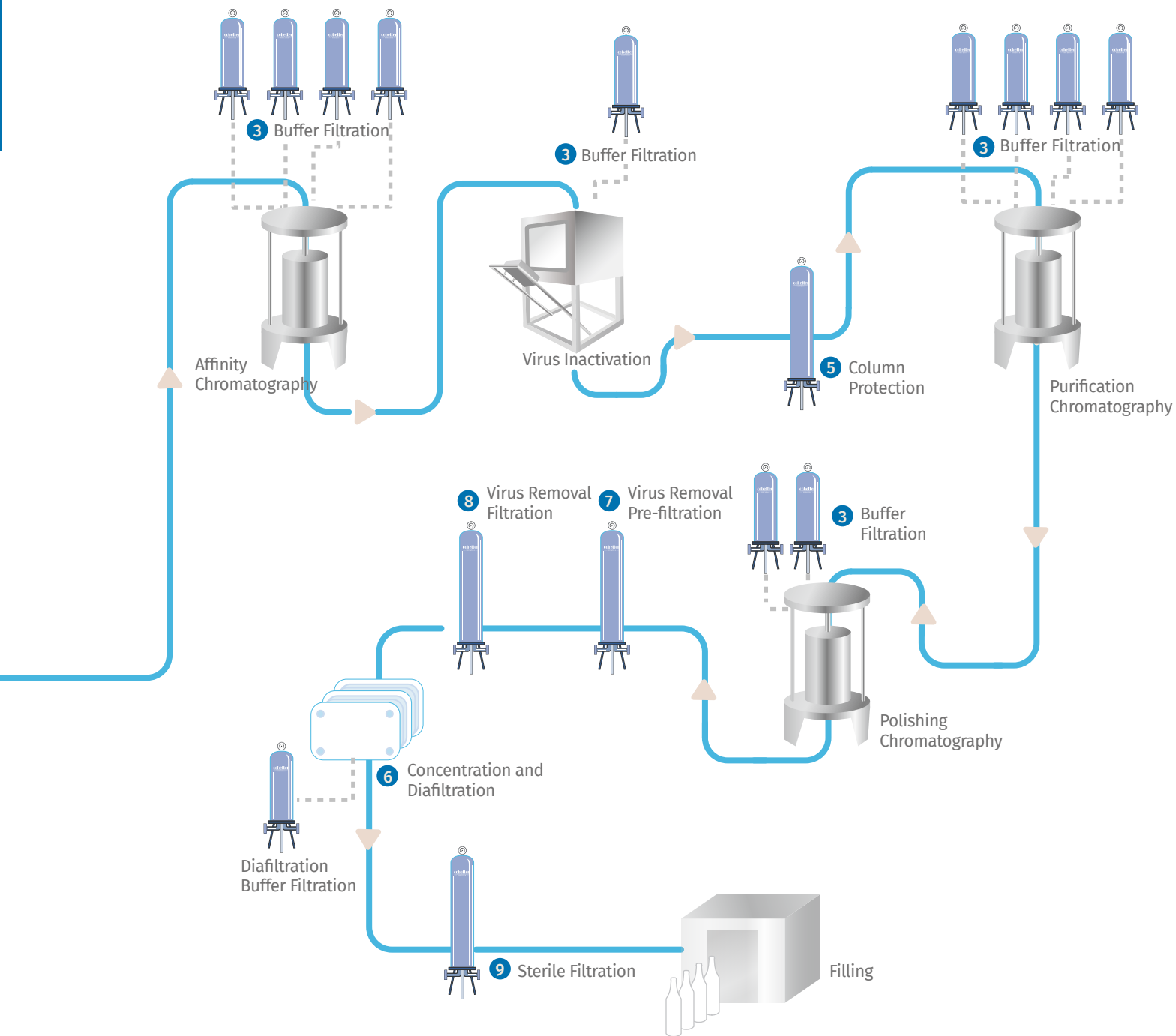
- Greclary CHV -Glass Fiber
- Excesal CHE -PP
- Excesal CHT -PP

Bioburden Reduction and Particle Control

- Purcise PLE -Double Layer PES
- Safetect PME -PES

Sterilizing-grade Filtration

- Purcise SLE -Double Layer PES



7 Viral Remove Prefiltration

- Purcise SLE -Double Layer PES
- Corevital SMD -PVDF
- Purcise MLE -Double Layer PES

8 Virus Clearance

- Viruclear -PES

9 Sterile Filtration

- Purcise SLE -Double Layer PES
- Purcise SPS -PES
- Corevital SMD -PVDF

Bricap & Brisip Capsule Filter Series



Bricap/BriScale Disc Capsule Filters

Item	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	74mm	6-13 mm (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

Item	Diameter	Max. Length	Inlet/Outlet	Vent/Drain
Bricap C01		106mm	14 mm (9/16") Sanitary Flange 19 mm (3/4") Sanitary flange	
Bricap C02	64mm	136mm	31 mm (1 1/4") Sanitary Flange	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

Item	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

Item	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 38 mm (1 1/2") Sanitary Flange	
Bricap L05	89mm	233mm	13 mm (1/2") Hose Barb	6mm Hose Barb
Bricap L10		347mm	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

Item	Diameter	Max. Length	Inlet/Outlet	Gauge Port	Vent/Drain
Bricap T10		354mm	38 mm (1 1/2") Sanitary Flange	14 mm (9/16") Sanitary Flange	
Bricap T20	89mm	592mm	19mm (3/4") Hose Barb	38 mm (1 1/2") Sanitary Flange	6mm Hose Barb
Bricap T30	152mm (Inlet/Outlet)	845mm	Hose Barb	No top port	

Inlet /Outlet Connections

C Female Luer Lok Inlet



P Male Luer Lok Outlet



K 14 mm (9/16") Sanitary Flange

T 19 mm (3/4") Sanitary Flange



F 31 mm (1 1/4") Sanitary Flange

S 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

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

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

M 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

E 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)



Cartridge Filters

Nominal Length	Adaptor	Seal Material
5"	226/Fin	Silicone
10"	226/Flat	EPDM
20"	222/Fin	Viton
30"	222/Flat	TEV
40"	Double Open End	



Catalog

Clarification Filter Series

Claricap CSD & Roheap CSD Filter P 10
High Dirt Holding Capacity

Greclary CHV Filter P 13
High Dirt Holding Capacity and Retention Efficiency

Excesal CHT P 15
High Dirt Holding

Excesal CHE P 16
High Retention Efficiency

Pre-filtration and Redundant Filter Series

Purcise PAF P 18
Hydrophilic Sterile-Grade Filter with High Flow Rates

Purcise PLE Filter P 19
Hydrophilic Filter with Low Extractables

Safetect PME P 21
Hydrophilic Sterile-Grade Filter with Low Protein Binding

Corevital PMD P 28
Low Protein Binding and Hydrophilic Filter

Sterile-Grade Filter Series

Purcise SLE Filter P 20
Hydrophilic Sterile-Grade Filter with Low Extractables

Purcise SAF Filter P 22
Hydrophilic Sterile-Grade Filter with High Flow Rates

Purcise SPS Filter P 23
Hydrophilic Sterile-Grade Steam-in-Place (SIP) Filter

Corevital SMD Filter P 26
High Flow Rate, Low Protein Binding Hydrophilic Sterile Filter

Corevital SND Filter P 27
High Flow Rate, Low Protein Binding Hydrophilic Sterile Filter

Mycoplasma Removal Filter Series

Purcise MLE Filter P 24
Hydrophilic Filter with Low Extractables

Gas Filtration Filter Series

Aegivast ACE Filter P 30
Hydrophobic Filter with High Retention Rates

Safesure AFM Filter P 31
Hydrophobic Filter with High Retention Rates

Corevital APB Filter P 33
Gamma-resistant Hydrophobic Filter

Other Products

Consieve UET & UFC P 35
Cassettes /Stainless Holder /System

Integrity Test Instrument P 37

Clean Steam Bag P 40

Vacuum Filter P 40

Filter Housing P 41

Clarification Filter Series

Claricap CSD & Roheap CSD Filter

High Dirt Holding Capacity

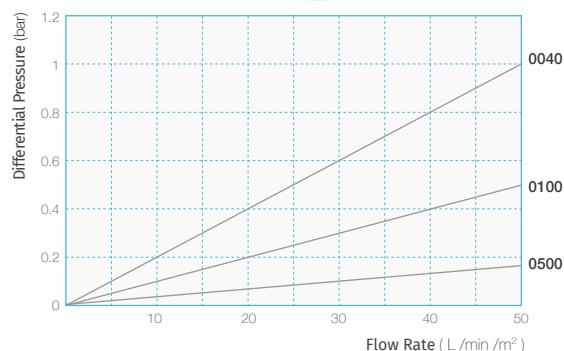


Features

- Filter media composed of lignocellulose and inorganic filter aids
- Gradient filter structure provides high dirt holding capacity and retention efficiency
- Low initial pressure difference and long service life
- Positive Zeta charge results in removal efficiency for host DNA, HCP, etc.

Applications

- Clarification of fermentation broth/cell cultures
- Filtration of blood and blood products
- Filtration of enzyme preparation
- Filtration of colloids/viscous liquids



Material of Construction

Filter Media	Cellulose, diatomite filter aid and ionic wet-strength resin
Process Type	P pharmaceutical C High dirt holding capacity with positive charge

Operating Conditions

	Roheap CSD Filter	CDF Capsule Filter
Max. Temperature	80°C	40°C
Max. Differential Pressure	0.24 MPa /80°C	0.3 MPa /40°C
Flush	Single Layer: 50L/m², Double Layer:100L/m², flow rate 10L/min/m²	

Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

Chemical Compatibility

Chemicals	Concentration	@20°C	@80°C
NaOH	2%	G	P
HCl	5%	G	P
HNO ₃	5%	G	P
H ₂ SO ₄	10%	G	P
Acetic acid	38%	G	G
Citric acid	10%	G	G
Peracetic acid	0.1%	G	G
Butanol	80%	G	G
Ethanol	80%	G	G

G = Recommended ; P = Not recommended

Filtration Area

Specification	Single Layer	Double Layers
CDFC	23cm ²	23cm ²
L05	207cm ²	115cm ²
L10	414cm ²	230cm ²
CSCA	0.2m ²	0.15m ²
CSCC	0.5m ²	0.4m ²
CSCB	1.15m ²	0.92m ²
CSD 12" Per Layer	0.11m ²	0.11m ²
CSD 16" Per Layer	0.23m ²	0.23m ²

Leachables

PC	Ion	ppb	Ion	ppb
	Mg	5.201	Ni	0.334
	Al	34.540	Cu	0.770
	Ca	63.447	As	0.532
	Cr	0.047	Pb	0.04
	Fe	27.287		

Roheap Depth Part Number Configurator

Capsule Filter Example : CDFCDCSD0004PCP

Cobetter Claricap Lab Depth Capsule Filters

C D F C

Filter Format

CDFC Claricap Lab



Number of Layers

S Single-Layer
D Double-Layer

C S D

Filter Media

CSD Roheap CSD depth filter media

Removal Ratings

Single-Layer

0004 0.04-0.2µm
0020 0.2-0.4µm
0040 0.4-0.6µm
0060 0.6-0.8µm
0100 0.8-1.5µm
0150 1.5-3.0µm
0300 3.0-6.0µm
0400 4.0-9.0µm
0500 5.0-12.0µm
0600 6.0-15.0µm
0700 7.0-18.0µm

Double-Layer

01 0.04-0.2µm
02 0.2-0.4µm
04 0.4-0.6µm
06 0.6-0.8µm
10 0.8-1.5µm
15 1.5-3.0µm
30 3.0-6.0µm
40 4.0-9.0µm
50 5.0-12.0µm
60 6.0-15.0µm
70 7.0-18.0µm
80 8.0-20.0µm
HO 0.02-0.2µm
HP 0.02-0.2µm

Type

PC Positive Charge

P

Market

P Pharmaceutical

Cobetter Claricap® D Depth Capsule Filters

Filter Format

CSCA ClaricapD08
CSCB Claricap D16
CSCC Claricap D08 Pro

Number of Layers

S Single-Layer
D Double-Layer

Removal Ratings

Single-Layer

0004 0.04-0.2µm
0020 0.2-0.4µm
0040 0.4-0.6µm
0060 0.6-0.8µm
0100 0.8-1.5µm
0150 1.5-3.0µm
0300 3.0-6.0µm
0400 4.0-9.0µm
0500 5.0-12.0µm
0600 6.0-15.0µm
0700 7.0-18.0µm

Double-Layer

01 0.04-0.2µm
02 0.2-0.4µm
04 0.4-0.6µm
06 0.6-0.8µm
10 0.8-1.5µm
15 1.5-3.0µm
30 3.0-6.0µm
40 4.0-9.0µm
50 5.0-12.0µm
60 6.0-15.0µm
70 7.0-18.0µm
80 8.0-20.0µm
HO 0.02-0.2µm
HP 0.02-0.2µm

Type

PC Positive Charge

P

Market

P Pharmaceutical



Cobetter Claricap L Depth Capsule Filters



Filter Format

- L05SS** Claricap L05
- L10SS** Claricap L10



Filter Media

- CSD** Roheap CSD depth filter media



Number of Layers

- S** Single-Layer
- D** Double-Layer



Removal Ratings

- Single-Layer
- 0004** 0.04-0.2µm
 - 0020** 0.2-0.4µm
 - 0040** 0.4-0.6µm
 - 0060** 0.6-0.8µm
 - 0100** 0.8-1.5µm
 - 0150** 1.5-3.0µm
 - 0300** 3.0-6.0µm
 - 0400** 4.0-9.0µm
 - 0500** 5.0-12.0µm
 - 0600** 6.0-15.0µm
 - 0700** 7.0-18.0µm



Type

- PC** Positive Charge



Market

- P** Pharmaceutical



CSD Depth Filter



Filter Format

- CSD**



Media Layers

- I** Single-Layer
- II** Double-Layer



Removal Ratings

- Single-Layer
- 0004** 0.04-0.2µm
 - 0020** 0.2-0.4µm
 - 0040** 0.4-0.6µm
 - 0060** 0.6-0.8µm
 - 0100** 0.8-1.5µm
 - 0150** 1.5-3.0µm
 - 0300** 3.0-6.0µm
 - 0400** 4.0-9.0µm
 - 0500** 5.0-12.0µm
 - 0600** 6.0-15.0µm
 - 0700** 7.0-18.0µm



Type

- PC** Positive Charge



End Cap



Diameter

- 12** 12 inch
- 16** 16 inch



Number of Cell

- Single-Layer
- A** 1 Cell
 - W** 2 Cells
 - Y** 3 Cells
 - B** 4 Cells
 - G** 5 Cells
 - N** 9 Cells
 - X** 10 Cells
 - Q** 11 Cells
 - T** 12 Cells
 - F** 15 Cells
 - D** 16 Cells



O-ring Material

- S** Silicone
- E** EPDM
- V** Fluoroelastomer
- T** FEP/PFA encap-sulated O-rings
- F** Fluorinated Polymer



Market

- P** Pharmaceutical



Double-Layer

- 01** 0.04-0.2µm
- 02** 0.2-0.4µm
- 04** 0.4-0.6µm
- 06** 0.6-0.8µm
- 10** 0.8-1.5µm
- 15** 1.5-3.0µm
- 30** 3.0-6.0µm
- 40** 4.0-9.0µm
- 50** 5.0-12.0µm
- 60** 6.0-15.0µm
- 70** 7.0-18.0µm
- 80** 8.0-20.0µm
- HO** 0.02-0.2µm
- HP** 0.02-0.2µm

Double-Layer

- W** 2 Cells
- G** 4 Cells
- S** 7 Cells
- X** 10 Cells

Clarification Filter Series

Greclary CHV Filter

High Dirt Holding Capacity and Retention Efficiency



Features

- Composed of super-fine glass fiber media
- Rigid fiber material which is suitable for colloid filtration
- High dirt holding capacity and retention efficiency
- Low initial pressure, high flow rates and long service life

Applications

- Pre-filtration of cell culture medium
- Clarification of fermentation broth/cell cultures
- Filtration blood products/serums
- Filtration of colloids/viscous liquids

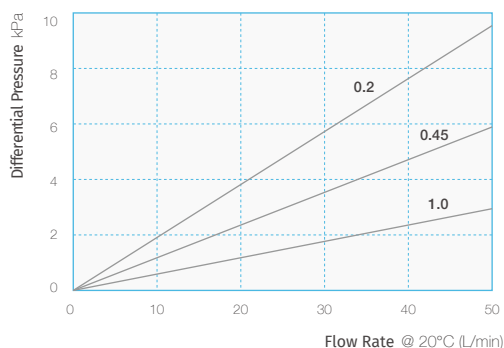
Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C
	0.1 MPa / 80°C

Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

Water Flow Rate - Cobetter Greclary CHV 10" Cartridge



Materials of Construction

Filter Type	Bricap C/L/T	Cartridge
Membrane	Glass Microfiber (GF)	Glass Microfiber (GF)
Core/Cage/End Cap	Polypropylene (PP)	Polypropylene (PP)
Capsule Shell	Polypropylene (PP)	—
O-ring	—	Silicone/EPDM/Viton/PTFE
Capsule Vent O-ring	Silicone	—
Removal Ratings	0.2/0.45/0.8/1.0/3.0/5.0µm	

Effective Filtration Area

Bricap C	Bricap L	Bricap T	Cartridge
C01: 80cm ²	L03: 0.07m ²	T10: 0.24m ²	5" : 0.12m ²
C02: 200cm ²	L05: 0.12m ²	T20: 0.48m ²	10" : 0.24m ²
C03: 300cm ²	L10: 0.24m ²	T30: 0.72m ²	20" : 0.48m ²
	L20: 0.48m ²		30" : 0.72m ²
	L30: 0.72m ²		40" : 0.96m ²

Sterilization Capability

- Bricap C, Bricap L, Bricap T Series
- Filter Cartridges: Autoclave & SIP

Greclary Series Part Number Configurator (GF)

Capsule Filter Example : C01TTCHV02A1P

Bricap C Small Capsule Filter Series



Capsule Formats

- C01** Bricap C01
- C02** Bricap C02
- C03** Bricap C03
- D01** Bricap D01



Inlet Outlet

- K** 14 mm (9/16") Sanitary Flange
- T** 19 mm (3/4") Sanitary Flange
- F** 31 mm (1 1/4") Sanitary Flange
- A** 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb with Filling Bell (liquids only)
- B** 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb
- L** 3.2mm(1/8") Hose Barb
- Y** 9.6mm(3/8") Hose Barb
- H** 13mm(1/2") Hose Barb
- V** 14 mm (9/16") Hose Barb



Membrane Type

- CHV02** CHV 0.2µm
- CHV04** CHV 0.45µm
- CHV08** CHV 0.8µm
- CHV10** CHV 1.0µm
- CHV30** CHV 3.0µm
- CHV50** CHV 5.0µm



Sterilization

- A** Autoclavable



Quantity/Package

- 1** 1 / pkg



Market

- P**

Bricap Inline Capsule Filters Series



Capsule Formats

- L03** Bricap L03
- L05** Bricap L05
- L10** Bricap L10
- L20** Bricap L20
- L30** Bricap L30



Inlet Outlet

- K** 14 mm (9/16") Sanitary Flange
- T** 19 mm (3/4") Sanitary Flange
- S** 38 mm (1 1/2") Sanitary Flange
- Y** 9.6 mm(3/8") Hose Barb
- H** 13 mm (1/2") Hose Barb
- V** 14 mm(9/16") Hose Barb
- X** 16 mm (5/8") Hose Barb
- M** 19 mm(3/4") Hose Barb
- D** 25 mm (1") Hose Barb



Sterilization

- A** Autoclavable



Quantity/Package

- 1** 1 / pkg



Market

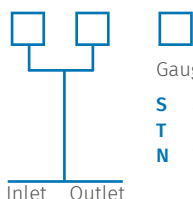
- P**

Bricap T Capsule



Capsule Formats

- T10** Bricap T10
- T20** Bricap T20
- T30** Bricap T30



Gauge Port Type

- S** 38 mm(1 1/2") Sanitary Flange
- T** 19 mm (3/4") Sanitary Flange
- N** Without Gauge Port

Inlet Outlet

- SS** 38mm(1 1/2") Sanitary Flange Inlet & Outlet
- SM** 38mm(1 1/2") Sanitary Flange Inlet & 19 mm (3/4") Hose Barb Outlet



Sterilization

- A** Autoclavable



Quantity/Package

- 1** 1 / pkg



Market

- P**

Cartridge Filter Example : ACHV02050SP

Cartridge Filters



Cartridge Type

- A** Standard Cartridge Pharmaceutical



Media

- CHV02** CHV 0.2µm
- CHV04** CHV 0.45µm
- CHV08** CHV 0.8µm
- CHV10** CHV 1.0µm
- CHV30** CHV 3.0µm
- CHV50** CHV 5.0µm



Length

- 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



O-ring Material

- E** EPDM
- V** Fluoroelastomer
- S** Silicone
- P** FEP/PFA encap-sulated O-rings



Market

- P**

Clarification Filter Series

Excesal CHT

High Dirt Holding



Features

- Composed of multi-layer Polypropylene media
- High retention efficiency
- All raw materials meet NSF requirements No adhesives or surfactants

Applications

- Pre-filtration of cell culture medium
- Clarification of fermentation broth/cell cultures
- Pre-filtration blood products/serums
- Pre-filtration of colloids/viscous liquids

Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C 0.1 MPa / 80°C

Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

Materials of Construction

	Bricap C/L/T	Cartridge
Filter Type	Polypropylene (PP)	Polypropylene (PP)
Membrane	Polypropylene (PP)	Polypropylene (PP)
Core/Cage/End Cap	Polypropylene (PP)	Polypropylene (PP)
Capsule Shell	Polypropylene (PP)	—
O-ring	—	Silicone/EPDM/Viton/PTFE
Capsule Vent O-ring	Silicone	—
Removal Ratings	0.5/0.6/0.8/1.5/5.0/10/20/40/70/90µm	

Effective Filtration Area

Bricap C	Bricap L	Bricap T	Cartridge
C01: 70cm ²	L02: 375cm ²	T10: 0.18m ²	5" : 0.09m ²
C02: 160cm ²	L03: 530cm ²	T20: 0.36m ²	10" : 0.18m ²
C03: 260cm ²	L05: 0.09m ²	T30: 0.54m ²	20" : 0.36m ²
	L10: 0.18m ²		30" : 0.54m ²
	L20: 0.36m ²		40" : 0.72m ²
	L30: 0.54m ²		

Sterilization Capability

- Bricap C, Bricap L, Bricap T Series
- Filter Cartridges: Autoclave & SIP

Clarification Filter Series

Excesal CHE

High Retention Efficiency



Features

- Composed of double-layer Polypropylene media
- Inner layer uses nanofibers to provide high retention efficiency

Applications

- Pre-filtration of cell culture medium
- Clarification of fermentation broth/cell cultures
- Pre-filtration of blood products/serums
- Pre-filtration of colloids/viscous liquids

Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C 0.1 MPa / 80°C

Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

Materials of Construction

Filter Type	Bricap C/L/T	Cartridge
Membrane	Polypropylene (PP)	Polypropylene (PP)
Core/Cage/End Cap	Polypropylene (PP)	Polypropylene (PP)
Capsule Shell	Polypropylene (PP)	—
O-ring	—	Silicone/EPDM/Viton/PTFE
Capsule Vent O-ring	Silicone	—
Removal Ratings	0.3/0.65/1.0/3.0/5.0µm	

Effective Filtration Area

BriScale A50	Bricap C	Bricap L	Bricap T	Cartridge
A50: 20cm ²	C01: 140cm ²	L03: 0.1m ²	T10: 0.36m ²	5" : 0.18m ²
	C02: 320cm ²	L05: 0.18m ²	T20: 0.72m ²	10" : 0.36m ²
	C03: 500cm ²	L10: 0.36m ²	T30: 1.08m ²	20" : 0.72m ²
		L20: 0.72m ²		30" : 1.08m ²
		L30: 1.08m ²		40" : 1.44m ²

Sterilization Capability

- BriScale Disc, Bricap C, Bricap L, Bricap T Series and Filter Cartridges : Autoclave

Exceal Series Part Number Configurator (PP)

Capsule Filter Example : C01TTCHE03A1P

Bricap C Small Capsule Filter Series



Capsule Formats

- C01** Bricap C01
- C02** Bricap C02
- C03** Bricap C03



Inlet Outlet

- K** 14 mm (9/16") Sanitary Flange
- T** 19 mm (3/4") Sanitary Flange
- F** 31 mm (1 1/4") Sanitary Flange
- A** 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb with Filling Bell (liquids & outlet only)
- B** 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb
- L** 3.2mm(1/8") Hose Barb
- Y** 9.6mm(3/8") Hose Barb
- H** 13mm(1/2") Hose Barb
- V** 14 mm (9/16") Hose Barb

Bricap D Small Capsule Filter Series

D01 Bricap D01

- A** 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb with Filling Bell (liquids & outlet only)
- B** 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb

Bricap Inline Capsule Filters Series



Capsule Formats

- L02** Bricap L02 (noly CHT)
- L03** Bricap L03
- L05** Bricap L05
- L10** Bricap L10
- L20** Bricap L20
- L30** Bricap L30



Inlet Outlet

- K** 14 mm (9/16") Sanitary Flange
- T** 19 mm (3/4") Sanitary Flange
- S** 38 mm (1 1/2") Sanitary Flange
- Y** 9.6 mm(3/8") Hose Barb
- H** 13 mm (1/2") Hose Barb
- V** 14 mm(9/16") Hose Barb
- X** 16 mm (5/8") Hose Barb
- M** 19 mm(3/4") Hose Barb
- D** 25 mm (1") Hose Barb

Bricap T Capsule Filters



Capsule Formats

- T10** Bricap T10
- T20** Bricap T20
- T30** Bricap T30



Gauge Port Type

- S** 38 mm(1 1/2") Sanitary Flange
- T** 19 mm (3/4") Sanitary Flange
- N** Without Gauge Port

Inlet Outlet

- SS** 38mm(1 1/2") Sanitary Flange Inlet & Outlet
- SM** 38mm(1 1/2") Sanitary Flange Inlet & 19 mm (3/4") Hose Barb Outlet

BriScale Disc Liquid Filter



Capsule Formats

- A50** BriScale A50



Inlet Outlet

- A** 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb with Filling Bell (outlet only)
- B** 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb (no Filling Bell)



Membrane Type

- CHE03** CHE 0.3µm
- CHE06** CHE 0.65µm
- CHE10** CHE 1.0µm
- CHE30** CHE 3.0µm
- CHE50** CHE 5.0µm
- CHT05** CHT 0.5µm
- CHT06** CHT 0.6µm
- CHT08** CHT 0.8µm
- CHT15** CHT 1.5µm
- CHT50** CHT 5.0µm
- CHT1X** CHT 10µm
- CHT2X** CHT 20µm
- CHT4X** CHT 40µm
- CHT7X** CHT 70µm
- CHT9X** CHT 90µm



Sterilization

- A** Autoclavable



Quantity/Package

- 1** 1 / pkg



Market

- P**



Sterilization

- A** Autoclavable



Quantity/Package

- 1** 1 / pkg



Market

- P**



Sterilization

- A** Autoclavable



Quantity/Package

- 1** 1 / pkg



Market

- P**



Sterilization

- A** Autoclavable



Quantity/Package

- 1** 1 / pkg
- 2** 2 / pkg



Market

- P**

Cartridge Filter Example : ACHE03050SP

Cartridge Filters



Cartridge Type

- A** Standard Cartridge Pharmaceutical



Media

- CHE03** CHE 0.3µm
- CHE06** CHE 0.65µm
- CHE10** CHE 1.0µm
- CHE30** CHE 3.0µm
- CHE50** CHE 5.0µm
- CHT05** CHT 0.5µm
- CHT06** CHT 0.6µm
- CHT08** CHT 0.8µm
- CHT10** CHT 1.0µm
- CHT15** CHT 1.5µm
- CHT50** CHT 5.0µm
- CHT1X** CHT 10µm
- CHT2X** CHT 20µm
- CHT4X** CHT 40µm
- CHT7X** CHT 70µm
- CHT9X** CHT 90µm



Length

- 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



O-ring Material

- E** EPDM
- V** Fluoroelastomer
- P** FEP/PFA encap-sulated O-rings
- S** Silicone



Market

- P**

Pre-filtration and Redundant Filter Series

Purcise PAF

Hydrophilic Sterile-Grade Filter with High Flow Rates



Features

- Efficient bacteria and particulate retention
- Extensive chemical compatibility (pH 1-14)
- High flow rates

Applications

- Sterilize filtration of cell culture medium
- Buffer filtration

Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C 0.1 MPa / 80°C

Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

Materials of Construction

Filter Type	Bricap C/L/T	Cartridge
Membrane	Hydrophilic Polyethersulfone (PES)	
Core/Cage/End Cap	Polypropylene (PP)	Polypropylene (PP)
Capsule Shell	Polypropylene (PP)	—
O-ring	—	Silicone/EPDM/Viton/PTFE
Capsule Vent O-ring	Silicone	—
Removal Ratings	0.45 µm / 1.0 µm	

Effective Filtration Area

BriScale A50	Bricap C/D	Bricap L	Bricap T	Cartridge
A50: 20cm ²	C01 : 180cm ²	L02: 0.12m ²	T10: 0.55m ²	5" : 0.28m ²
	C02 : 420cm ²	L03: 0.16m ²	T20: 1.1m ²	10" : 0.55m ²
	C03 : 660cm ²	L05: 0.28m ²	T30: 1.65m ²	20" : 1.1m ²
	D01 : 350cm ²	L10: 0.55m ²		30" : 1.65m ²
		L20: 1.1m ²		40" : 2.2m ²
		L30: 1.65m ²		

Sterilization Capability

Sterilization Method/Filter Format	BriScale Disc, Bricale C/ L / T	Bricap D	Cartridge
Gamma-irradiation	25-45kGy	/	/
Autoclave (126°C) applies only to Gamma-compatible package	5 cycle, 60min	/	/
Autoclave (130°C) applies only to Autoclave package	25 cycle ,30min	25 cycle , 30min	50 cycle, 30min
SIP (135°C) applies only to cartridge	/	/	50 cycle, 30min

Pre-filtration and Redundant Filter Series

Purcise PLE Filter

Hydrophilic Filter with Low Extractables

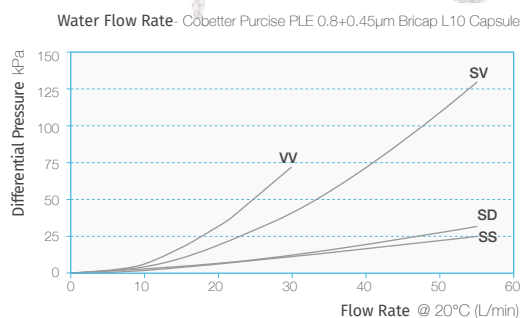


Features

- Composed of double-layer hydrophilic Polyestersulfone media
- Efficient bacteria and particulate retention
- Extensive chemical compatibility (pH 1-14)
- Low extractables

Applications

- Pre-filtration of cell culture medium
- Buffer filtration
- Pre-column/ ultra-filtration protection



Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C 0.1 MPa / 80°C

Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

Material of Construction

Filter Type	Bricap C/D/L/T	Cartridge
Membrane	Hydrophilic Polyethersulfone (PES)	
Core/Cage/End Cap	Polypropylene (PP)	Polypropylene (PP)
Capsule Shell	Polypropylene (PP)	—
O-ring	—	Silicone/EPDM/Viton/PTFE
Capsule Vent O-ring	Silicone	—
Removal Ratings	0.8+0.45 µm / 1.0+0.65 µm / 1.5+0.8 µm	

Effective Filtration Area

BriScale A50	Bricap C/D	Bricap L	Bricap T	Cartridge
A50: 20cm ²	C01 : 180cm ²	L02: 0.12m ²	T10: 0.55m ²	5" : 0.28m ²
	C02 : 420cm ²	L03: 0.16m ²	T20: 1.1m ²	10" : 0.55m ²
	C03 : 660cm ²	L05: 0.28m ²	T30: 1.65m ²	20" : 1.1m ²
	D01 : 350cm ²	L10: 0.55m ²		30" : 1.65m ²
		L20: 1.1m ²		40" : 2.2m ²
		L30: 1.65m ²		

Sterilization Capability

Sterilization Method/Filter Format	BriScale Disc, Bricap C/ L / T	Bricap D	Cartridge
Gamma-irradiation	25-45kGy	/	/
Autoclave (126°C) applies only to Gamma-compatible package	5 cycle, 60min	/	/
Autoclave (130°C) applies only to Autoclave package	25 cycle, 30min	25 cycle, 30min	50 cycle, 30min
SIP (135°C) applies only to cartridge	/	/	50 cycle, 30min

Sterile-Grade Filter Series

Purcise SLE Filter

Hydrophilic Sterile-Grade Filter with Low Extractables



Features

- Efficient bacteria and particulate retention
- Extensive chemical compatibility (pH 1-14)
- Low extractables and low protein binding

Applications

- Sterilize filtration of cell culture medium
- Buffer filtration
- Pre-column/ultra-filtration protection
- Filtration of intermediate products/stock solutions
- Filtration of blood products/serums
- Sterile filtration of terminal products
- Filtration of colloids/viscous liquids

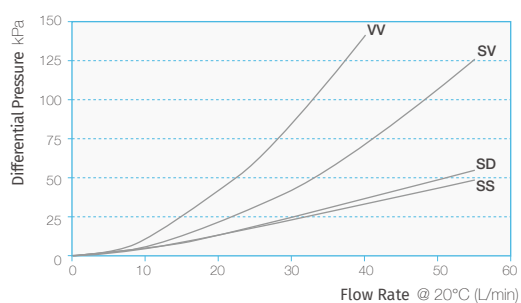
Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C 0.1 MPa / 80°C

Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

Water Flow Rate: Cobetter Purcise SLE 0.2µm Bricap L10 Capsule



Materials of Construction

Filter Type	Bricap C/D/L/T	Cartridge
Membrane	Hydrophilic Polyethersulfone (PES)	
Support	Polypropylene (PP)	Polypropylene (PP)
Core/Cage/End Cap	Polypropylene (PP)	Polypropylene (PP)
Capsule Shell	Polypropylene (PP)	—
O-ring	—	Silicone/EPDM/Viton/PTFE
Capsule Vent O-ring	Silicone	—
Removal Ratings	0.2 µm / 0.45+0.2 µm / 0.65+0.2 µm 0.8+0.2 µm / 1.2+0.2 µm	

Effective Filtration Area

BriScale A50	Bricap C/D	Bricap L	Bricap T	Cartridge
A50: 20cm ²	C01 : 180cm ²	L02: 0.12m ²	T10: 0.55m ²	5" : 0.28m ²
	C02 : 420cm ²	L03: 0.16m ²	T20: 1.1m ²	10" : 0.55m ²
	C03 : 660cm ²	L05: 0.28m ²	T30: 1.65m ²	20" : 1.1m ²
	D01 : 350cm ²	L10: 0.55m ²		30" : 1.65m ²
		L20: 1.1m ²		40" : 2.2m ²
		L30: 1.65m ²		

Sterilization Capability

Sterilization Method/Filter Format	BriScale Disc, Bricale C/ L / T	Bricap D	Cartridge
Gamma-irradiation	25-45kGy	/	/
Autoclave (126°C) applies only to Gamma-compatible package	5 cycle, 60min	/	/
Autoclave (130°C) applies only to Autoclave package	25 cycle, 30min	25 cycle, 30min	50 cycle, 30min
SIP (135°C) applies only to cartridge	/	/	50 cycle, 30min

Pre-filtration and Redundant Filter Series

Safetect PME High Dirt Holding Capacity



Features

- Composed of double-layer Polyestersulfone media
- Extensive chemical compacity
- High dirt holding capacity

Applications

- Sterilize filtration of cell culture medium
- Buffer filtration
- Pre-column/ ultra-filtration protection

Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C 0.1 MPa / 80°C

Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

Materials of Construction

Filter Type	Bricap C/L/T	Cartridge
Membrane	Hydrophilic Polyethersulfone (PES)	
Core/Cage/End Cap	Polypropylene (PP)	Polypropylene (PP)
Capsule Shell	Polypropylene (PP)	—
O-ring	—	Silicone/EPDM/Viton/PTFE
Capsule Vent O-ring	Silicone	—
Removal Ratings	0.8+0.1µm; 1.0+0.2µm	

Effective Filtration Area

BriScale A50	Bricap C/D	Bricap L	Bricap T	Cartridge
A50: 20cm ²	C01 : 180cm ²	L02 : 0.12m ²	T10 : 0.55m ²	5" : 0.28m ²
	C02 : 420cm ²	L03 : 0.16m ²	T20 : 1.1m ²	10" : 0.55m ²
	C03 : 660cm ²	L05 : 0.28m ²	T30 : 1.65m ²	20" : 1.1m ²
	D01 : 350cm ²	L10 : 0.55m ²		30" : 1.65m ²
		L20 : 1.1m ²		40" : 2.2m ²
		L30 : 1.65m ²		

Sterilization Capability

Sterilization Method/Filter Format	BriScale Disc, Bricale C/ L / T	Bricap D	Cartridge
Gamma-irradiation	25-45kGy	/	/
Autoclave (126°C) applies only to Gamma-compatible package	5 cycle, 60min	/	/
Autoclave (130°C) applies only to Autoclave package	25 cycle,30min	25 cycle, 30min	50 cycle, 30min
SIP (135°C) applies only to cartridge	/	/	50 cycle, 30min

Sterile-Grade Filter Series

Purcise SAF Filter

Hydrophilic Sterile-Grade Filter with High Flow Rates



Features

- Efficient bacteria and particulate retention
- Extensive chemical compatibility (pH 1-14)
- High flow rates

Applications

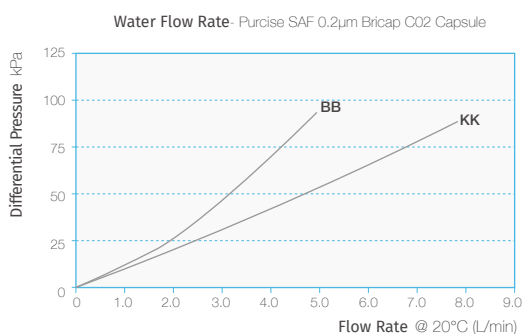
- Sterilize filtration of cell culture medium
- Buffer filtration
- Pre-column/ultra-filtration protection
- Filtration of intermediate products/stock solutions
- Filtration of blood products/serums
- Sterile filtration of terminal products

Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C 0.1 MPa / 80°C

Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics



Materials of Construction

Filter Type	Bricap C/D/L/T	Cartridge
Membrane	Hydrophilic Polyethersulfone (PES)	
Support	Polypropylene (PP)	Polypropylene (PP)
Core/Cage/End Cap	Polypropylene (PP)	Polypropylene (PP)
Capsule Shell	Polypropylene (PP)	Polypropylene (PP)
O-ring	—	Silicone/EPDM/Viton/PTFE
Capsule Vent O-ring	Silicone	—
Removal Ratings	0.45+0.2 µm / 0.65+0.2 µm	

Effective Filtration Area

BriScale A50	Bricap C/D	Bricap L	Bricap T	Cartridge
A50: 20cm ²	C01 : 180cm ²	L02: 0.12m ²	T10: 0.55m ²	5" : 0.28m ²
	C02 : 420cm ²	L03: 0.16m ²	T20: 1.1m ²	10" : 0.55m ²
	C03 : 660cm ²	L05: 0.28m ²	T30: 1.65m ²	20" : 1.1m ²
	D01 : 350cm ²	L10: 0.55m ²		30" : 1.65m ²
		L20: 1.1m ²		40" : 2.2m ²
		L30: 1.65m ²		

Sterilization Capability

Sterilization Method/Filter Format	BriScale Disc, Bricale C/ L / T	Bricap D	Cartridge
Gamma-irradiation	25-45kGy	/	/
Autoclave (126°C) applies only to Gamma-compatible package	5 cycle, 60min	/	/
Autoclave (130°C) applies only to Autoclave package	25 cycle, 30min	25 cycle, 30min	50 cycle, 30min
SIP (135°C) applies only to cartridge	/	/	50 cycle, 30min

Sterile-Grade Filter Series

Purcise SPS Filter

Hydrophilic Sterile-Grade Steam-in-Place (SIP) Filter

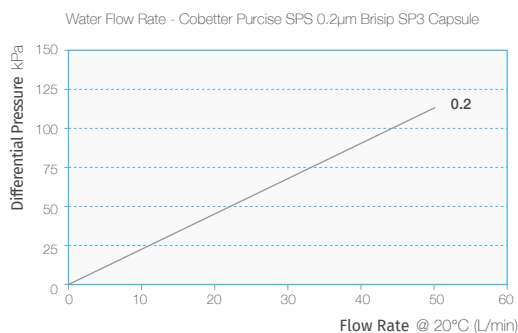


Features

- Efficient bacteria and particulate retention
- Extensive chemical compatibility (pH 1-14)
- Low extractables
- SIP

Applications

- Sterilize filtration of cell culture medium
- Buffer filtration
- Pre-column/ultra-filtration protection
- Filtration of intermediate products/stock solutions
- Filtration of blood products/serums
- Sterile filtration of terminal products
- Filtration of colloids/viscous liquids



Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C 0.1 MPa / 80°C

Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

Materials of Construction

Filter Type	Brisip SP3
Membrane	Hydrophilic Polyethersulfone (PES)
Support	Polypropylene (PP)
Core/Cage/End Cap	Polypropylene (PP)
Capsule Shell	Polyetherimide (PEI)
Capsule Vent O-ring	Silicone
Removal Ratings	0.2 µm
Filtration Area	0.15 m ²

Sterilization Capability

- **Brisip SP3** : Autoclave is optional (131°C, 30min, 10 times), SIP (135°C, 60 min, 8 times)

Purcise SPS (Liquid) Series Part Number Configurator (PES)



Capsule Formats
SP3 Brisip® SP3



Inlet Outlet
S 1 1/2" (38 mm) Sanitary Flange



Membrane Type
SPSN SPS 0.2µm



Vent Valve / Drain Valve
P 6 mm Hose Barb
X Vent Stäubli Connector
Drain 6 mm Hose Barb
T Stäubli Connector



Quantity/Package
1 1 / pkg



Market
P

Mycoplasma Removal Filter Series

Purcise MLE Filter

Hydrophilic Filter with Low Extractables



Features

- Composed of a double-layer hydrophilic Polyestersulfone (PES) media
- Efficient mycoplasma, bacteria and particulate retention
- Extensive chemical compatibility (pH 1-14)
- Low extractables

Applications

- Sterilize filtration of cell culture medium
- Pre-column/ultra-filtration protection
- Filtration of intermediate products/stock solutions
- Filtration of blood products/serums
- Sterile filtration of terminal products

Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C 0.1 MPa / 80°C

Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

Materials of Construction

Filter Type	Bricap C/D/L/T	Cartridge
Membrane	Hydrophilic Polyethersulfone (PES)	
Core/Cage/End Cap	Polypropylene (PP)	Polypropylene (PP)
Capsule Shell	Polypropylene (PP)	—
O-ring	—	Silicone/EPDM/Viton/PTFE
Capsule Vent O-ring	Silicone	—
Removal Ratings	0.2+0.1 µm / 0.45+ 0.1 µm	

Effective Filtration Area

BriScale A50	Bricap C/D	Bricap L	Bricap T	Cartridge
A50: 20cm ²	C01 : 180cm ²	L02: 0.12m ²	T10: 0.55m ²	5" : 0.28m ²
	C02 : 420cm ²	L03: 0.16m ²	T20: 1.1m ²	10" : 0.55m ²
	C03 : 660cm ²	L05: 0.28m ²	T30: 1.65m ²	20" : 1.1m ²
	D01 : 350cm ²	L10: 0.55m ²		30" : 1.65m ²
		L20: 1.1m ²		40" : 2.2m ²
		L30: 1.65m ²		

Sterilization Capability

Sterilization Method/Filter Format	BriScale Disc, Bricale C/ L / T	Bricap D	Cartridge
Gamma-irradiation	25-45kGy	/	/
Autoclave (126°C) applies only to Gamma-compatible package	5 cycle, 60min	/	/
Autoclave (130°C) applies only to Autoclave package	25 cycle, 30min	25 cycle, 30min	50 cycle, 30min
SIP (135°C) applies only to cartridge	/	/	50 cycle, 30min

Purcise (Liquid) Series Part Number Configurator (PES)

Capsule Filter Example : C01TTPLESA1P

Bricap C Small Capsule Filter Series

Capsule Formats	Inlet	Outlet
C01 Bricap C01	K 14 mm (9/16") Sanitary Flange	
C02 Bricap C02	T 19 mm (3/4") Sanitary Flange	
C03 Bricap C03	F 31 mm (1 1/4") Sanitary Flange	
	A 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb with Filling Bell (liquids & outlet only)	
	B 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb	
	L 3.2mm(1/8") Hose Barb	
	Y 9.6mm(3/8") Hose Barb	
	H 13mm(1/2") Hose Barb	
	V 14 mm (9/16") Hose Barb	

Bricap D Small Capsule Filter Series

D01 Bricap D01	A 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb with Filling Bell (liquids & outlet only)
	B 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb

Bricap Inline Capsule Filters Series

Capsule Formats	Inlet	Outlet
L02 Bricap L02	K 14 mm (9/16") Sanitary Flange	
L03 Bricap L03	T 19 mm (3/4") Sanitary Flange	
L05 Bricap L05	S 38 mm (1 1/2") Sanitary Flange	
L10 Bricap L10	Y 9.6 mm(3/8") Hose Barb	
L20 Bricap L20	H 13 mm (1/2") Hose Barb	
L30 Bricap L30	V 14 mm(9/16") Hose Barb	
	X 16 mm (5/8") Hose Barb	
	M 19 mm(3/4") Hose Barb	
	D 25 mm (1") Hose Barb	

Bricap T Capsule

Capsule Formats	Inlet	Outlet	Gauge Port Type
T10 Bricap T10			S 38 mm(1 1/2") Sanitary Flange
T20 Bricap T20			T 19 mm (3/4") Sanitary Flange
T30 Bricap T30			N Without Gauge Port
	SS 38mm(1 1/2") Sanitary Flange Inlet & Outlet		
	SM 38mm(1 1/2") Sanitary Flange Inlet & 19 mm (3/4") Hose Barb Outlet		

BriScale Disc Liquid Filter

Capsule Formats	Inlet	Outlet
A50 BriScale A50	A 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb with Filling Bell (outlet only)	
	B 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb (no Filling Bell)	

Membrane Type
PMEA PME 0.8+0.1Nµm
PMEB PME 1.0+0.2Nµm
PLES PLE 0.8+0.45µm
PLEH PLE 1.0+0.65µm
PLEL PLE 1.5+0.8µm
PAFS PAF 0.45µm
PAFP PAF 1.0µm
SLEN SLE 0.2µm
SLES SLE 0.45+0.2µm
SLEH SLE 0.65+0.2µm
SLEL SLE 0.8+0.2µm
SLEC SLE 1.2+0.2µm
SAFS SAF 0.45+0.2µm
SAFH SAF 0.65+0.2µm
SPSN SPS 0.2µm
MLEB MLE 0.2+0.1µm
MLES MLE 0.45+0.1µm

Sterilization	Quantity/Package	Market
A Autoclavable	1 1 / pkg	P
G Gamma Compatible		
S Sterile		

Sterilization	Quantity/Package	Market
A Autoclavable	1 1 / pkg	P
G Gamma Compatible		
S Sterile		

Sterilization	Quantity/Package	Market
A Autoclavable	1 1 / pkg	P
G Gamma Compatible		
S Sterile		

Sterilization	Quantity/Package	Market
A Autoclavable	1 1 / pkg	P
G Gamma Compatible	2 2 / pkg	
S Sterile		

Cartridge Filter Example : APLES050SP

Cartridge Filters

Cartridge Type	Media	Length	Code	O-ring Material	Market
A Standard Cartridge Pharmaceutical	PLES PLE 0.8+0.45µm	05 5 inch	0 DOE	E EPDM	P
	PLEH PLE 1.0+0.65µm	10 10 inch	2 226 / Flat	V Fluoroelastomer	
	PLEL PLE 1.5+0.8µm	20 20 inch	7 226 / Fin	S Silicone	
	PAFS PAF 0.45µm	30 30 inch	3 222 / Flat	P FEP/PFA encap-sulated O-rings	
	PAFP PAF 1.0µm	40 40 inch	8 222 / Fin		
	SLEN SLE 0.2µm				
	SLES SLE 0.45+0.2µm				
	SLEH SLE 0.65+0.2µm				
	SLEL SLE 0.8+0.2µm				
	SLEC SLE 1.2+0.2µm				
	SAFS SAF 0.45+0.2µm				
	SAFH SAF 0.65+0.2µm				
	PMEA PME 0.8+0.1Nµm				
	PMEB PME 1.0+0.2Nµm				
	MLEB MLE 0.2+0.1µm				
	MLES MLE 0.45+0.1µm				

Sterile-Grade Filters

Corevital SMD Filter

High Flow Rate, Low Protein Binding Hydrophilic Sterile Filter



Features

- High flow rates
- Low protein binding
- Efficient bacteria and particulate retention

Applications

- Sterilize filtration of cell culture medium
- Ophthalmic solution
- Filtration of cell culture medium
- Buffer filtration
- Filtration of blood products/serums
- Sterile filtration of intermediate products
- Pre-column/ultra-filtration protection
- Sterile filtration of terminal products
- Filtration of colloids/Viscous liquids

Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C 0.1 MPa / 80°C

Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

Materials of Construction

Filter Type	Bricap C/L/T	Cartridge
Membrane	Polyvinylidene fluoride (PVDF)	
Core/Cage/End Cap	Polypropylene (PP)	Polypropylene (PP)
Capsule Shell	Polypropylene (PP)	—
O-ring	—	Silicone/EPDM/Viton/PTFE
Capsule Vent O-ring	Silicone	—
Removal Ratings	0.2 µm/0.2+0.1 µm/0.45+0.2 µm/0.65+0.2 µm	

Effective Filtration Area

BriScale A50	Bricap C/D	Bricap L	Bricap T	Cartridge
A50: 20cm ²	C01 : 180cm ²	L02: 0.12m ²	T10: 0.55m ²	5" : 0.28m ²
	C02 : 420cm ²	L03: 0.16m ²	T20: 1.1m ²	10" : 0.55m ²
	C03 : 660cm ²	L05: 0.28m ²	T30: 1.65m ²	20" : 1.1m ²
	D01 : 350cm ²	L10: 0.55m ²		30" : 1.65m ²
		L20: 1.1m ²		40" : 2.2m ²
		L30: 1.65m ²		

Sterilization Capability

Sterilization Method/Filter Format	BriScale Disc, Bricale C/ L / T	Bricap D	Cartridge
Gamma-irradiation	25-45kGy	/	/
Autoclave (126°C) applies only to Gamma-compatible package	5 cycle, 60min	/	/
Autoclave (130°C) applies only to Autoclave package	25 cycle,30min	25 cycle, 30min	50 cycle, 30min
SIP (135°C) applies only to cartridge	/	/	50 cycle, 30min

Sterile-Grade Filters

Corevital SND Filter

High Flow Rate, Low Protein Binding Hydrophilic Sterile Filter



Features

- High flow rates
- Low protein binding
- Efficient bacteria and particulate retention

Applications

- Sterilize filtration of cell culture medium
- Ophthalmic solution
- Filtration of cell culture medium
- Buffer filtration
- Filtration of blood products/serums
- Sterile filtration of intermediate products
- Pre-column/ultra-filtration protection
- Sterile filtration of terminal products
- Filtration of colloids/Viscous liquids

Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C 0.1 MPa / 80°C

Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

Materials of Construction

Filter Type	Bricap C/L/T	Cartridge
Membrane	Polyvinylidene fluoride (PVDF)	
Core/Cage/End Cap	Polypropylene (PP)	Polypropylene (PP)
Capsule Shell	Polypropylene (PP)	—
O-ring	—	Silicone/EPDM/Viton/PTFE
Capsule Vent O-ring	Silicone	—
Removal Ratings	0.2 µm/0.2+0.2 µm/0.45+0.2 µm	

Effective Filtration Area

BriScale A50	Bricap C/D	Bricap L	Bricap T	Cartridge
A50: 20cm ²	C01 : 180cm ² C02 : 420cm ² C03 : 660cm ² D01 : 350cm ²	L02: 0.12m ² L03: 0.16m ² L05: 0.28m ² L10: 0.55m ² L20: 1.1m ² L30: 1.65m ²	T10: 0.55m ² T20: 1.1m ² T30: 1.65m ²	5" : 0.28m ² 10" : 0.55m ² 20" : 1.1m ² 30" : 1.65m ² 40" : 2.2m ²

Sterilization Capability

Sterilization Method/Filter Format	BriScale Disc, Bricap C/ L / T	Bricap D	Cartridge
Gamma-irradiation	25-45kGy	/	/
Autoclave (126°C) applies only to Gamma-compatible package	5 cycle, 60min	/	/
Autoclave (130°C) applies only to Autoclave package	25 cycle,30min	25 cycle, 30min	50 cycle, 30min
SIP (135°C) applies only to cartridge	/	/	50 cycle, 30min

Pre-filtration and Redundant Filter Series

Corevital PMD

Low Protein Binding and Hydrophilic Filter



Features

- Composed of double-layer PVDF membrane
- Extensive chemical compatibility
- High dirt holding capacity
- Low protein binding

Applications

- Pre-filtration of cell culture medium
- Buffer filtration
- Pre-filtration of terminal products
- Pre-column/ultra-filtration protection

Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C 0.1 MPa / 80°C

Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

Materials of Construction

Filter Type	Bricap C/L/T	Cartridge
Membrane	Polyvinylidene fluoride (PVDF)	
Core/Cage/End Cap	Polypropylene (PP)	Polypropylene (PP)
Capsule Shell	Polypropylene (PP)	
O-ring	—	Silicone/EPDM/Viton/PTFE
Capsule Vent O-ring	Silicone	
Removal Ratings	1.0+0.45 µm	

Effective Filtration Area

BriScale A50	Bricap C/D	Bricap L	Bricap T	Cartridge
A50: 20cm ²	C01 : 180cm ²	L02 : 0.12m ²	T10 : 0.55m ²	5" : 0.28m ²
	C02 : 420cm ²	L03 : 0.16m ²	T20 : 1.1m ²	10" : 0.55m ²
	C03 : 660cm ²	L05 : 0.28m ²	T30 : 1.65m ²	20" : 1.1m ²
	D01 : 350cm ²	L10 : 0.55m ²		30" : 1.65m ²
		L20 : 1.1m ²		40" : 2.2m ²
		L30 : 1.65m ²		

Sterilization Capability

Sterilization Method/Filter Format	BriScale Disc, Bricale C/ L / T	Bricap D	Cartridge
Gamma-irradiation	25-45kGy	/	/
Autoclave (126°C) applies only to Gamma-compatible package	5 cycle, 60min	/	/
Autoclave (130°C) applies only to Autoclave package	25 cycle, 30min	25 cycle, 30min	50 cycle, 30min
SIP (135°C) applies only to cartridge	/	/	50 cycle, 30min

Corevital (Liquid) Series Part Number Configurator (PVDF)

Capsule Filter Example : C01TTSNDBA1P

Bricap C Small Capsule Filter Series



Capsule Formats

- C01** Bricap C01
- C02** Bricap C02
- C03** Bricap C03



Inlet Outlet

- K** 14 mm (9/16") Sanitary Flange
- T** 19 mm (3/4") Sanitary Flange
- F** 31 mm (1 1/4") Sanitary Flange
- A** 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb with Filling Bell (liquids & outlet only)
- B** 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb
- L** 3.2mm(1/8") Hose Barb
- Y** 9.6mm(3/8") Hose Barb
- H** 13mm(1/2") Hose Barb



Membrane Type

- PMDS** PMD 1.0+0.45µm
- SMDN** SMD 0.2µm
- SMDS** SMD 0.45+0.2µm
- SMDH** SMD 0.65+0.2µm
- SMDA** SMD 0.2+0.1µm
- SMDB** SMD 0.2+0.2µm
- SNDN** SND 0.2µm
- SNDB** SND 0.2+0.2µm
- SNDS** SND 0.45+0.2µm



Sterilization

- A** Autoclavable
- G** Gamma Compatible
- S** Sterile



Quantity/Package

- 1** 1 / pkg



Market

- P**

Bricap D Small Capsule Filter Series

D01 Bricap D01

- A** 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb with Filling Bell (liquids & outlet only)
- B** 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb

Bricap Inline Capsule Filters Series



Capsule Formats

- L02** Bricap L02
- L03** Bricap L03
- L05** Bricap L05
- L10** Bricap L10
- L20** Bricap L20
- L30** Bricap L30



Inlet Outlet

- K** 14 mm (9/16") Sanitary Flange
- T** 19 mm (3/4") Sanitary Flange
- S** 38 mm (1 1/2") Sanitary Flange
- Y** 9.6 mm(3/8") Hose Barb
- H** 13 mm (1/2") Hose Barb
- V** 14 mm(9/16") Hose Barb
- X** 16 mm (5/8") Hose Barb
- M** 19 mm(3/4") Hose Barb
- D** 25 mm (1") Hose Barb



Sterilization

- A** Autoclavable
- G** Gamma Compatible
- S** Sterile



Quantity/Package

- 1** 1 / pkg



Market

- P**

Bricap T Capsule



Capsule Formats

- T10** Bricap T10
- T20** Bricap T20
- T30** Bricap T30



Gauge Port Type

- S** 38 mm(1 1/2") Sanitary Flange
- T** 19 mm (3/4") Sanitary Flange
- N** Without Gauge Port

Inlet Outlet

- SS** 38mm(1 1/2") Sanitary Flange Inlet & Outlet
- SM** 38mm(1 1/2") Sanitary Flange Inlet & 19 mm (3/4") Hose Barb Outlet



Sterilization

- A** Autoclavable
- G** Gamma Compatible
- S** Sterile



Quantity/Package

- 1** 1 / pkg



Market

- P**

BriScale Disc Liquid Filter



Capsule Formats

- A50** BriScale A50



Inlet Outlet

- A** 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb with Filling Bell (outlet only)
- B** 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb (no Filling Bell)



Sterilization

- A** Autoclavable
- G** Gamma Compatible
- S** Sterile



Quantity/Package

- 1** 1 / pkg
- 2** 2 / pkg



Market

- P**

Cartridge Filter Example : APMDS050SP

Cartridge Filters



Cartridge Type

- A** Standard Cartridge Pharmaceutical



Media

- PMDS** PMD 1.0+0.45µm
- SMDN** SMD 0.2µm
- SMDS** SMD 0.45+0.2µm
- SMDH** SMD 0.65+0.2µm
- SNDN** SND 0.2µm
- SNDB** SND 0.2+0.2µm
- SNDS** SND 0.45+0.2µm



Length

- 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



O-ring Material

- E** EPDM
- V** Fluoroelastomer
- S** Silicone
- P** FEP/PFA encap-sulated O-rings



Market

- P**

Gas Filtration Filter Series

Aegivast ACE Filter

Hydrophobic Filter with High Retention Rates



Features

- High retention rates
- Low pressure differential
- Efficient mycoplasma, bacteria and particulate retention

Applications

- Vent Filters for fermentors, tanks, etc.
- Sterile-grade filtration for compressed air, oxygen, nitrogen, etc.

Operating Conditions

Max Operating Temperature	50°C
Max Differential Pressure	0.24 MPa / 25°C
	0.42 MPa / 25°C (only for V50D)

Biological Safety

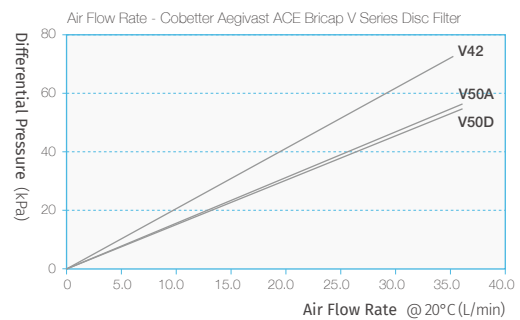
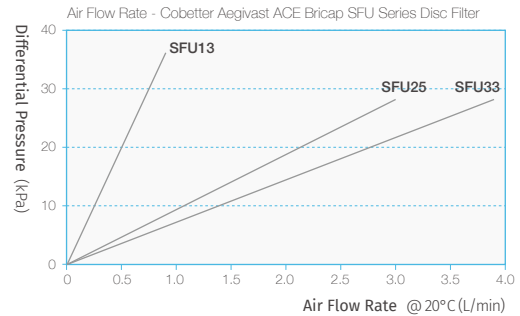
Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

Materials of Construction

Type	Bricap SFU13 / SFU25 / SFU33	Bricap V42 / V50A / V50D
Membrane	Hydrophobic polytetrafluoroethylene (PTFE)	Hydrophobic polytetrafluoroethylene (PTFE)
Support layer	Polyester (PET)	Polyester or Polypropylene (PET/PP)
Core/Cage / End cap	Polypropylene (PP)	Polypropylene (PP)
Capsule shell	0.2 µm	

Effective Filtration Area

Bricap SFU	Bricap V
SFU13 : 0.72cm ²	V42 : 13.8cm ²
SFU25 : 3.4cm ²	V50A : 20cm ²
SFU33 : 4.5cm ²	V50D : 20cm ²



Sterilization Capability

- **Bricap SFU13 / SFU25 / SFU33 Disc** : Autoclave, Gamma Irradiation or Pre-sterilization optional
- **Bricap V42/V50A/V50D Disc** : Autoclave (130°C, 30min, 20 times), Gamma irradiation or Pre-sterilization

Aegivast ACE Series Part Number Configurator (PTFE)

Capsule Formats	Inlet / Outlet	Membrane Type	Sterilization	Quantity/Package	Market
U13 Bricap® SFU13 0.72cm ² U25 Bricap® SFU25 3.4cm ² U33 Bricap® SFU33 4.5cm ² V42 Bricap® V42 13.8cm ² V5A Bricap® V50A 20cm ² V5D Bricap® V50D 20cm ²	CP Female Luer Lok™ Inlet and Male luer slip Outlet EE 1/4"-3/8" (6-9 mm) Stepped Hose Barb Inlet and Outlet (Bricap V42 only) BB 1/4"-1/2" (6-13 mm) Stepped Hose Barb Inlet and Outlet (Bricap V50A & V50D only)	ACEB ACE 0.2µm	A Autoclavable (Only Bricap V) G Gamma Compatible S Sterile	1 1 / pkg 2 2 / pkg 5 5 / pkg ((Only V42))	P

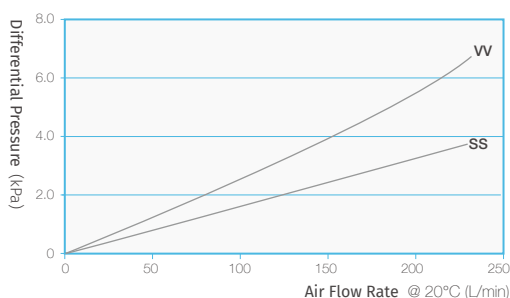
Gas Filtration Filter Series

Safesure AFM Filter

Hydrophobic Filter with High Retention Rates



Air Flow Rate - Cobetter Aegivast AFM Bricap L03 Capsule



Features

- Inherently hydrophobic membrane
- High retention rates
- Low pressure differential
- Efficient mycoplasma, bacteria and particulate retention

Applications

- Vent Filters for fermentors, tanks, etc.
- Sterile-grade filtration for air, oxygen, nitrogen, etc.

Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C
	0.1 MPa / 80°C

Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

Materials of Construction

Filter Type	Bricap L/T	Brisip SP3	Cartridge
Membrane	Hydrophobic Polytetrafluoroethylene (PTFE)		
Support	Polypropylene (PP)	Polypropylene (PP)	Polypropylene (PP)
Core/Cage/End Cap	Polypropylene (PP)	Polypropylene (PP)	Polypropylene (PP)
Capsule Shell	Polypropylene (PP)	PEI polyetherimide (PEI)	---
O-ring	---	Silicone	Silicone
Capsule Vent O-ring	Silicone	Silicone	---
Removal Ratings		0.2 µm	

Effective Filtration Area

Bricap C	Bricap L	Bricap T	Brisip SP3	Cartridge
C01 : 200cm ²	L02 : 0.14m ²	T10 : 0.68m ²	0.2m ²	5" : 0.34m ²
C02 : 480cm ²	L03 : 0.2m ²	T20 : 1.36m ²		10" : 0.68m ²
C03 : 750cm ²	L05 : 0.34m ²	T30 : 2.04m ²		20" : 1.36m ²
	L10 : 0.68m ²			30" : 2.04m ²
	L20 : 1.36m ²			40" : 2.72m ²
	L30 : 2.04m ²			

Sterilization Capability

- Bricap L, Bricap T : Autoclave
- Brisip SP3, Filter Cartridge : Autoclave & SIP

Safesure (Gas) Series Part Number Configurator (PTFE)

Capsule Filter Example : L03TTAFMBA1P

Bricap Inline Capsule Filters Series



Capsule Formats

- C01** Bricap C01
- C02** Bricap C02
- C03** Bricap C03



Inlet Outlet

- K** 14 mm (9/16") Sanitary Flange
- T** 19 mm (3/4") Sanitary Flange
- F** 31 mm (1 1/4") Sanitary Flange
- A** 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb with Filling Bell (liquids & outlet only)
- B** 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb
- L** 3.2mm(1/8") Hose Barb
- Y** 9.6mm(3/8") Hose Barb
- H** 13mm(1/2") Hose Barb



Membrane Type

- AFMB** AFM 0.2µm



Sterilization

- A** Autoclavable
- G** Gamma Compatible
- S** Sterile



Quantity/Package

- 1** 1 / pkg



Market

- P**

Bricap D Small Capsule Filter Series

D01 Bricap D01

- A** 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb with Filling Bell (liquids & outlet only)
- B** 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb



Capsule Formats

- L02** Bricap L02
- L03** Bricap L03
- L05** Bricap L05
- L10** Bricap L10
- L20** Bricap L20
- L30** Bricap L30



Inlet Outlet

- K** 14 mm (9/16") Sanitary Flange
- T** 19 mm (3/4") Sanitary Flange
- S** 38 mm (1 1/2") Sanitary Flange
- Y** 9.6 mm(3/8") Hose Barb
- H** 13 mm (1/2") Hose Barb
- V** 14 mm(9/16") Hose Barb
- X** 16 mm (5/8") Hose Barb
- M** 19 mm(3/4") Hose Barb
- D** 25 mm (1") Hose Barb



Sterilization

- A** Autoclavable



Quantity/Package

- 1** 1 / pkg



Market

- P**

Bricap T Capsule



Capsule Formats

- T10** Bricap T10
- T20** Bricap T20
- T30** Bricap T30



Gauge Port Type

- S** 38 mm(1 1/2") Sanitary Flange
- T** 19 mm (3/4") Sanitary Flange
- N** Without Gauge Port

Inlet Outlet

- SS** 38mm(1 1/2") Sanitary Flange Inlet & Outlet
- SM** 38mm(1 1/2") Sanitary Flange Inlet & 19 mm (3/4") Hose Barb Outlet



Sterilization

- A** Autoclavable



Quantity/Package

- 1** 1 / pkg



Market

- P**

Brisip Steam-in-Place Capsule Filters



Capsule Formats

- SP3** BrisipSP3



Inlet Outlet

- S** 1 1/2" (38 mm) Sanitary Flange



Vent/ Drain

- P** 6 mm Hose Barb
- X** Vent Stäubli Connector Drain 6 mm Hose Barb
- T** Stäubli Connector



Quantity/Package

- 1** 1 / pkg



Market

- P**

Cartridge Filter Example : AAFMB050SP

Cartridge Filters



Cartridge Type

- A** Standard Cartridge Pharmaceutical



Media

- AFMB** AFM 0.2µm



Length

- 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



O-ring Material

- E** EPDM
- V** Fluoroelastomer
- S** Silicone
- P** FEP/PFA encapsulated O-rings



Market

- P**

Gas Filtration Filter Series

Corevital APB Filter

Gamma-resistant Hydrophobic Filter



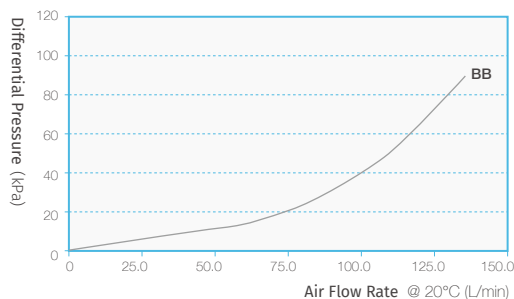
Features

- High retention efficiency
- Low differential pressure
- Efficient bacteria and particulate retention
- Gamma irradiation

Applications

- Vent Filters for fermentors, tanks, etc.
- Sterile-grade filtration for compressed air, oxygen, nitrogen etc.

Air Flow Rate - Cobetter Corevital APB Bricap C02 Capsule



Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C 0.1 MPa / 80°C

Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

Materials of Construction

Filter Type	Bricap C/D/L
Membrane	Hydrophobic Polyvinylidene Fluoride (PVDF)
Core/Cage/End Cap	Polypropylene (PP)
Capsule Shell	Polypropylene (PP)
O-ring	Polypropylene (PP)
Capsule Vent O-ring	Silicone
Removal Ratings	0.2 µm

Effective Filtration Area

Bricap SFU/V	Bricap C/D	Bricap L	Bricap T	Cartridge
SFU13 : 0.72cm ²	C01 : 290cm ²	L03 : 0.25m ²	T10 : 0.75m ²	5" : 0.375m ²
SFU25 : 3.4cm ²	C02 : 640cm ²	L05 : 0.375m ²	T20 : 1.5m ²	10" : 0.75m ²
SFU33 : 4.5cm ²	C03 : 1000cm ²	L10 : 0.75m ²	T30 : 2.25m ²	20" : 1.5m ²
V42 : 13.8cm ²	D01 : 450 cm ²	L20 : 1.5m ²		30" : 2.25m ²
V50A : 20cm ²		L30 : 2.25m ²		40" : 3.0m ²
V50D : 20cm ²				

Sterilization Capability

Sterilization Method/Filter Format	BriScale Disc, Bricale C/ L / T	Bricap D	Cartridge
Gamma-irradiation	25-45kGy	/	/
Autoclave (126°C) applies only to Gamma-compatible package	5 cycle, 60min	/	/
Autoclave (130°C) applies only to Autoclave package	25 cycle, 30min	25 cycle, 30min	50 cycle, 30min
SIP (135°C) applies only to cartridge	/	/	50 cycle, 30min

Corevital (Gas) Series Part Number Configurator (PVDF)

Capsule Filter Example :C01BBAPBBS1P

Bricap C Small Capsule Filter Series



Capsule Formats

- C01** Bricap C01
- C02** Bricap C02
- C03** Bricap C03



Inlet Outlet

- K** 14 mm (9/16") Sanitary Flange
- T** 19 mm (3/4") Sanitary Flange
- F** 31 mm (1 1/4") Sanitary Flange
- A** 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb with Filling Bell (liquids & outlet only)
- B** 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb
- L** 3.2mm(1/8") Hose Barb
- Y** 9.6mm(3/8") Hose Barb
- H** 13mm(1/2") Hose Barb
- V** 14 mm (9/16") Hose Barb



Membrane Type

- APBB** APB 0.2µm



Sterilization

- A** Autoclavable
- G** Gamma Compatible
- S** Sterile



Quantity/Package

- 1** 1 / pkg



Market

- P**

Bricap D Small Capsule Filter Series

- D01** Bricap D01

- A** 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb with Filling Bell (liquids & outlet only)
- B** 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb

Bricap Inline Capsule Filters Series



Capsule Formats

- L02** Bricap L02
- L03** Bricap L03
- L05** Bricap L05
- L10** Bricap L10
- L20** Bricap L20
- L30** Bricap L30



Inlet Outlet

- K** 14 mm (9/16") Sanitary Flange
- T** 19 mm (3/4") Sanitary Flange
- S** 38 mm (1 1/2") Sanitary Flange
- Y** 9.6 mm(3/8") Hose Barb
- H** 13 mm (1/2") Hose Barb
- V** 14 mm(9/16") Hose Barb
- X** 16 mm (5/8") Hose Barb
- M** 19 mm(3/4") Hose Barb
- D** 25 mm (1") Hose Barb



Sterilization

- A** Autoclavable
- G** Gamma Compatible
- S** Sterile



Quantity/Package

- 1** 1 / pkg



Market

- P**

Bricap T Capsule



Capsule Formats

- T10** Bricap T10
- T20** Bricap T20
- T30** Bricap T30



Gauge Port Type

- S** 38 mm(1 1/2") Sanitary Flange
- T** 19 mm (3/4") Sanitary Flange
- N** Without Gauge Port
- SS** 38mm(1 1/2") Sanitary Flange Inlet & Outlet
- SM** 38mm(1 1/2") Sanitary Flange Inlet & 19 mm (3/4") Hose Barb Outlet



Sterilization

- A** Autoclavable
- G** Gamma Compatible
- S** Sterile



Quantity/Package

- 1** 1 / pkg



Market

- P**

BriScale Disc



Capsule Formats

- U13** Bricap SFU13 0.72cm²
- U25** Bricap SFU25 3.4cm²
- U33** Bricap SFU33 4.5cm²
- V42** Bricap V42 13.8cm²
- V5A** Bricap V50A 20cm²
- V5D** Bricap V50D 20cm²



Inlet Outlet

- CP** Female Luer Lok Inlet and Male Luer Lok Outlet (Bricap SFU Series only)
- EE** 1/4"-3/8" (6-9 mm) Stepped Hose Barb Inlet and Outlet (Bricap V42 only)
- BB** 1/4"-1/2" (6-13 mm) Stepped Hose Barb Inlet and Outlet (Bricap V50A & V50D only)



Sterilization

- A** Autoclavable
- G** Gamma Compatible
- S** Sterile



Quantity/Package

- 1** 1 / pkg
- 2** 2 / pkg
- 5** 5 / pkg(Only V42)



Market

- P**

Cartridge Filter Example : AAPBB050SP

Cartridge Filters



Cartridge Type

- A** Standard Cartridge Pharmaceutical



Media

- APBB** APB 0.2µm



Length

- 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



O-ring Material

- E** EPDM
- V** Fluoroelastomer
- S** Silicone
- P** FEP/PFA encap-sulated O-rings



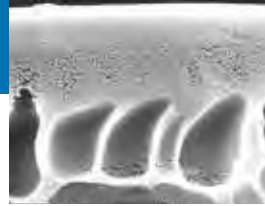
Market

- P**

Consieve UET & UFC TFF Cassettes

Consieve UET&UFC Cassette membranes have a high retention efficiency and are easy to clean/install. Available in a wide range of configurations.

Due to its design, it is easy to amplify/increase based on specific process requirements. The inner gaskets make installation/cleaning/storage/replacement quick and easy. Low working volume and high efficiency ensure product yields.

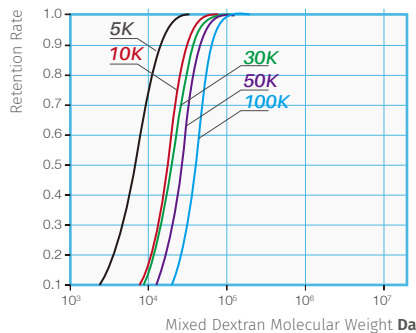


Information

Materials	PES, RC
Material Features	Low protein binding and high product yield superior flow rates
PH Range	Broad chemical compatibility: PES pH 1-14, RC pH 2-13
NMWL	3(Only RC)/5/8/10/30/50/100/300KD
Operating Temperature Range	4-50°C
Max. Operating Pressure	4.0 bar @ 50°C
Diffusion Flow (Air)	0.11 m ² ≤12ml/min@1.0bar, 0.46 m ² ≤50ml/min@1.0bar
Pressure Drop	0.3-0.6 bar (Circulation Flow Rate 6L/min/m ²)

Types	Available Size	Applications	Throughput	Notes
Lab LA	100 cm ² 0.11 m ²	R&D R&D, Pilot Production	200-2000ml 5-50L	Membrane Cassette ; Stainless Steel Holder required
Flow FL	0.46 m ² 2.33 m ²	Pilot Production, Large Scale Production Pilot Production, Large Scale Production	> 50L > 50L	

PES Ultrafiltration Membrane - Mixed Dextran Retention Curve



TFF Cassettes Example : UFELA0005001P

Application	Material of membrane	Format	NMWL	Effective Filtration Area	Industry
UF Ultrafiltration	E PES C RC(Only 3KD)	LA FL	0003 3 KD 0005 5 KD 0008 8 KD 0010 10 KD 0030 30 KD 0050 50 KD 0100 100 KD 0300 300 KD	001 100 cm ² 010 0.11 m ² 050 0.46 m ² 250 2.33 m ²	P P

Ordering Information

Cobetter Consieve® TFF Cassettes

Application	Format	NMWL	Effective Filtration Area	Market
UFE Cobetter Consieve® UET	LA Lab FL Flow	0005 5 KD 0008 8 KD 0010 10 KD 0030 30 KD 0050 50 KD 0100 100 KD 0300 300 KD	001 100 cm ² (only Lab) 002 200 cm ² (only Lab) 010 0.11 m ² (only Lab) 050 0.46 m ² (only Flow) 055 0.50 m ² (only Flow) 250 2.33 m ² (only Flow) 270 2.50 m ² (only Flow)	P
UFC Cobetter Consieve® UFC		0003 3 KD 0005 5 KD 0010 10 KD 0030 30 KD		P

Cobetter Consieve® TFF Cassettes (Tight Screen)

Application	Format	Screen Type	NMWL	Effective Filtration Area	Market
UFE Cobetter Consieve® UET	LA Lab FL Flow	A Tight Screen	0005 5 KD 0008 8 KD 0010 10 KD 0030 30 KD 0050 50 KD 0100 100 KD 0300 300 KD	001 100 cm ² (only Lab) 002 200 cm ² (only Lab) 010 0.11 m ² (only Lab) 055 0.50 m ² (only Flow) 270 2.50 m ² (only Flow)	P
UFC Cobetter Consieve® UFC			0003 3 KD 0005 5 KD 0010 10 KD 0030 30 KD		P

Cobetter Consieve® TFF Cassettes (Suspended Coarse)

Application	Format	Screen Type	NMWL	Effective Filtration Area	Market
UFE Cobetter Consieve® UET	LA Lab FL Flow	V Suspended Coarse	0005 5 KD 0008 8 KD 0010 10 KD 0030 30 KD 0050 50 KD 0100 100 KD 0300 300 KD	002 200 cm ² (only Lab) 010 0.11 m ² (only Lab) 055 0.50 m ² (only Flow) 270 2.50 m ² (only Flow)	P
UFC Cobetter Consieve® UFC			0003 3 KD 0005 5 KD 0010 10 KD 0030 30 KD		P

H-CFH TFF Stainless Steel Holder



0.1 m² Stainless Steel Holder

Process development and small-volume parentals production with an EFA of 0.1m².

Unique design is fully compliant with biopharmaceutical applications and their requirements.



0.5 m² Stainless Steel Holder

Accomodate an effective filter area of 0.5 m² -2.5 m² up to 5 m²

Ordering Information

	Effective Filtration Area	Filter Plate Material	Inlet/Outlet/Rententate	Seals Materials	Surface Finish	Design Pressure	Industry
H-CFH	<u>01</u>	<u>S</u>	<u>T15</u>	<u>S</u>	<u>A</u>	<u>X</u>	<u>P</u>
	01 0.1 m ²	S 316L	T15 DN15	S Silicone	A Mirror Polish	X 0.6Mpa	P Pharmaceutical
	05 0.5 m ²		T20 DN20				
	25 2.5 m ²		T38 DN38				
	...						

TFF System

Cobetter is able to design TFF system based on customer specifications and requirements especially for Pilot Labs and Process Systems

R&D
Throughput(1-40L)



Pilot System
Throughput (50-500L)



Certitest 20

All-New intelligent integrity tester



All-New intelligent integrity tester

- The whole machine uses high-level hardware to ensure data stability and accuracy.
- Special structure design effectively prevents water from sucking back and self-check function.
- Powerful windows system supports real-time display of test curves.
- 50G large memory capacity, backup data can be exported on user's demand.
- Support multi-level user access settings to ensure data integrated and safe.

More Rigorous

- The powerful windows system and stable algorithm make that each test point can be accurately displayed
- Complete audit trail can use single-level or two-level signature
- Strict authority management, in full compliance with FDA 21CFR PART 11.

More Reliable

- IP54 standard against dust and splashing of water
- The whole machine adopts Stäubli interface, which is convenient for operation and has better air tightness of each connection.
- Complete self-check procedure after startup: including inlet pressure value display function, internal valve, internal pressure sensor, it can complete whether the whole system leak.

More Convenient

- Windows operating system is very friendly to user's operation
- Simple and fast switch between Chinese and English, other languages can be customized on user's demand.
- User can finish system updates independently, which can save the time and labour costs.
- Equipped with network interface, which can realize automatic data upload to the server.

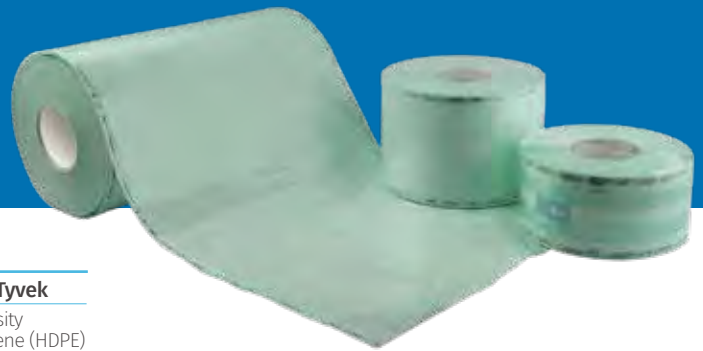
Stronger Hardware

- Pressure regulating valve: Advanced Festo piezoelectric pressure regulating valve with pressure feedback function can be used to automatically adjust the feedback pressure, which has the characteristics of high pressure accuracy and fast response.
- Pressure sensor: Digital pressure sensor made of ceramic substrate, with small temperature drift and pressure fluctuation, Operational amplifier circuit has no effect on date test.
- Solenoid valve: Certitest™ 20 features Burkert solenoid valve and customized valve, meanwhile with few interfaces and high sealing performance, the system is stable and not easy to leak.
- Microcontroller: STM32F429, ARM 32-bit Cortex -M4 CPU with FPU, frequency up to 180 MHz, up to 2 MB of Flash memory and 256+4 KB of SRAM, including 64-KB of CCM (core coupled memory) data RAM.

Instrument parameters

Items	
Power	100-240V AC, 50/60Hz 120W
Display screen	10.1 inch high-definition color touch screen and resolution up to 1280*800
Test Range	Bubble point: 100-7000mbar Diffusion flow: 0.1-600ml/min Water intrusion: 0.01-100ml
Test Method	Bubble point test, Extensive Bubble point test(bubble point + diffusion flow), pressure holding test, diffusion flow test, water immersion test;
Operation condition	Ambient temperature: 0°C ~ 40°C Relative humidity: ≤80%
History Record Function	50G large storage capacity easy to export or backup
Language options	English/Chinese

Cleansteam Bag



Breathing Side	Arjo60-70 Dialysis Paper	Dupont Tyvek
Holding Side	Temperature resistant medical composite membrane(PET+CPP)	High Density Polyethylene (HDPE)
Sterilization Indicators	Autoclave sterilization indicator Ethylene oxide sterilization indicator	
Package	Double-layer packaging: additional protection which protects the bags from scratching	

▲ Arjo60-70 Dialysis Paper

▼ Dupont Tyvek

Item	Media	Width		
M	Dialysis Paper	50mm	250mm	x 200mm
		75mm	300mm	2D P
		100mm	350mm	
		125mm	400mm	
		150mm	500mm	
		200mm		
		75mm	250mm	x 100mm
		100mm	300mm	3D L
		150mm	350mm	
		200mm	400mm	
T	Dupont Tyvek	210×297mm	500×830mm	800×1200mm
		300×830mm	600×800mm	900×900mm
		320×450mm	600×882mm	1000×1000mm
		350×450mm	600×900mm	1000×1200mm
		400×400mm	700×900mm	1200×1200mm
		400×500mm	700×1000mm	
		450×700mm	800×900mm	
		500×600mm	800×800mm	
500×650mm	800×900mm			



Vacuum Filter

Specification	150ml, 250ml, 500ml, 1000ml
Membrane	PES, CN, CA, NY
Removal Ratings	0.1 / 0.2 / 0.45µm

Item	Type	Size	Material of membrane	Market
C	Bottle + Filter bowl	150 150mL	MLEN PES 0.1 SLES PES 0.45+0.2	P
B	Only bottle	250 250mL	SLEN PES 0.22 MLEB PES 0.2+0.1	
F	Only filter bowl	500 500mL	PAFS PES 0.45 SAFS PES 0.45+0.2	
		01L 1000mL	SPFN PTFE 0.22 SMDS PVDF 0.45+0.2	
			SMDN PVDF 0.22	
			0000 only bottle	





Sanitary Liquid Filter Housing

	Number of Filter	Filter Length	Materials	End Cap	Housing Connection	Inlet/Outlet	Sealing Materials	Surface Finish	Design Pressure	Industry
H-SCF-A	<u>01</u>	<u>05</u>	<u>F</u>	<u>S</u>	<u>I</u>	<u>T25</u>	<u>S</u>	<u>A</u>	<u>X</u>	<u>P</u>
H-SCF-B two drain valves	<u>01</u> 1 round	<u>05</u> 5 inch <u>10</u> 10 inch <u>20</u> 20 inch <u>30</u> 30 inch	<u>F</u> 304 <u>S</u> 316L	<u>S</u> 226 <u>T</u> 222 <u>D</u> DOE	<u>T</u> Tri-clamp	<u>T25</u> Tri-clamp DN25	<u>S</u> Silicone <u>E</u> EPDM <u>V</u> Viton <u>F</u> PTFE	<u>A</u> Mirror polishing <u>B</u> Internal Electrolytic-polishing	<u>X</u> 0.6MPa <u>Y</u> 1.0MPa	<u>P</u> Pharmaceutical

Vent Housing

	Number of Filter	Filter Length	Materials	End Cap	Housing Connection	Inlet/Outlet	Sealing Materials	Surface Finish	Design Pressure	Industry
H-VCF H-VCF II	<u>01</u>	<u>05</u>	<u>F</u>	<u>S</u>	<u>I</u>	<u>T25</u>	<u>S</u>	<u>A</u>	<u>X</u>	<u>P</u>
	<u>01</u> 1 round	<u>05</u> 5 inch <u>10</u> 10 inch	<u>F</u> 304 <u>S</u> 316L	<u>S</u> 226 <u>T</u> 222	<u>T</u> Tri-clamp	<u>T25</u> Tri-clamp DN25 <u>T38</u> Tri-clamp DN38 <u>T50</u> Tri-clamp DN50	<u>S</u> Silicone <u>E</u> EPDM <u>V</u> Viton	<u>A</u> Mirror Polish <u>B</u> Internal Electro-polish	<u>X</u> 0.6MPa	<u>P</u> Pharmaceutical





Gas Filter Housing

	Number of Filter	Filter Length	Materials	End Cap	Housing Connection	Inlet/Outlet	Sealing materials	Surface Finish	Design Pressure	Industry
H-GCF	01	05	F	S	I	T38	S	A	X	P
	01 1 round 03 3 round	05 5 inch 10 10 inch 20 20 inch 30 30 inch	F 304 S 316L	S 226	T Tri-clamp F Flange	T25 Tri-clamp DN25 T38 Tri-clamp DN38 T50 Tri-clamp DN50 F25 Flange DN25	S Silicone E EPDM V Viton	A Mirror Polish B Internal Electro-polish	X 0.6MPa Y 1.0MPa	P Pharmaceutical

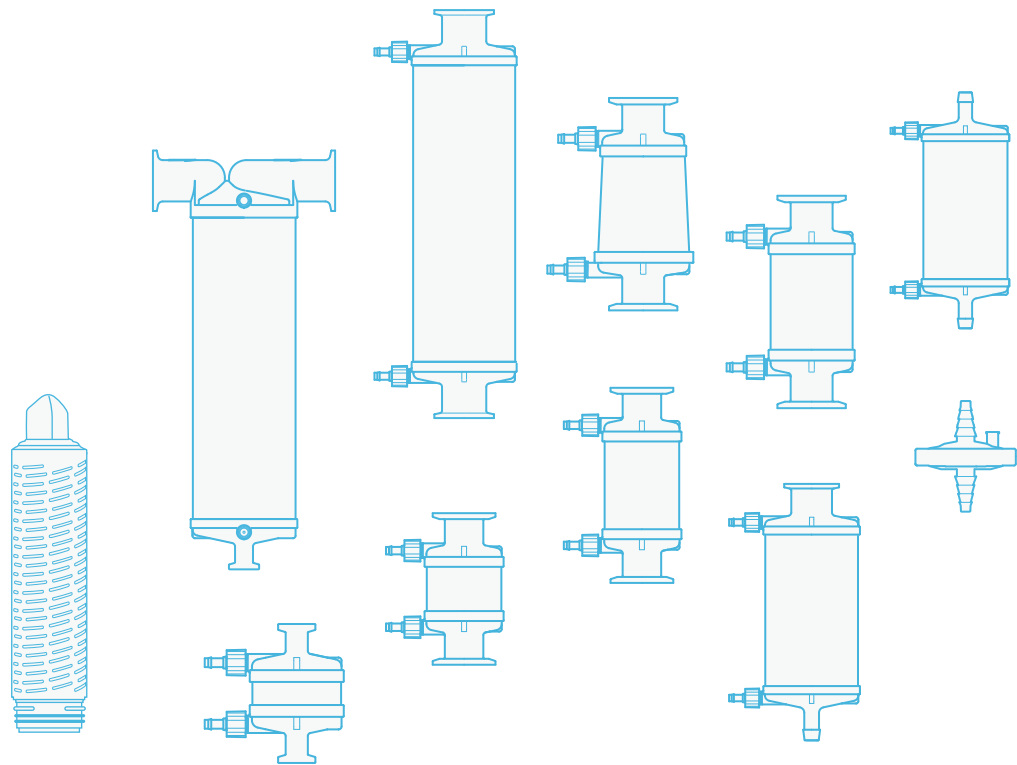
Steel Membrane Holder

	Number of Membrane	Membrane O.D.	Material	Housing Connection	Inlet/Outlet	Sealing Materials	Surface Finish	Design Pressure	Industry
H-DMF	01	47	F	I	T25	S	A	X	P
	01 1 membrane	47 47mm 90 90mm 142 142mm 200 200mm 293 293mm	F 304 S 316L	T Tri-clamp L Screwed Connection	T25 Tri-clamp DN25	S Silicone E EPDM V Viton	A Mirror Polish B Internal Electro-polish	X 0.6MPa	P Pharmaceutical



Our Mission

Committed to providing excellent products and continuous innovative solutions, we help customers optimise their process and improve product quality.



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