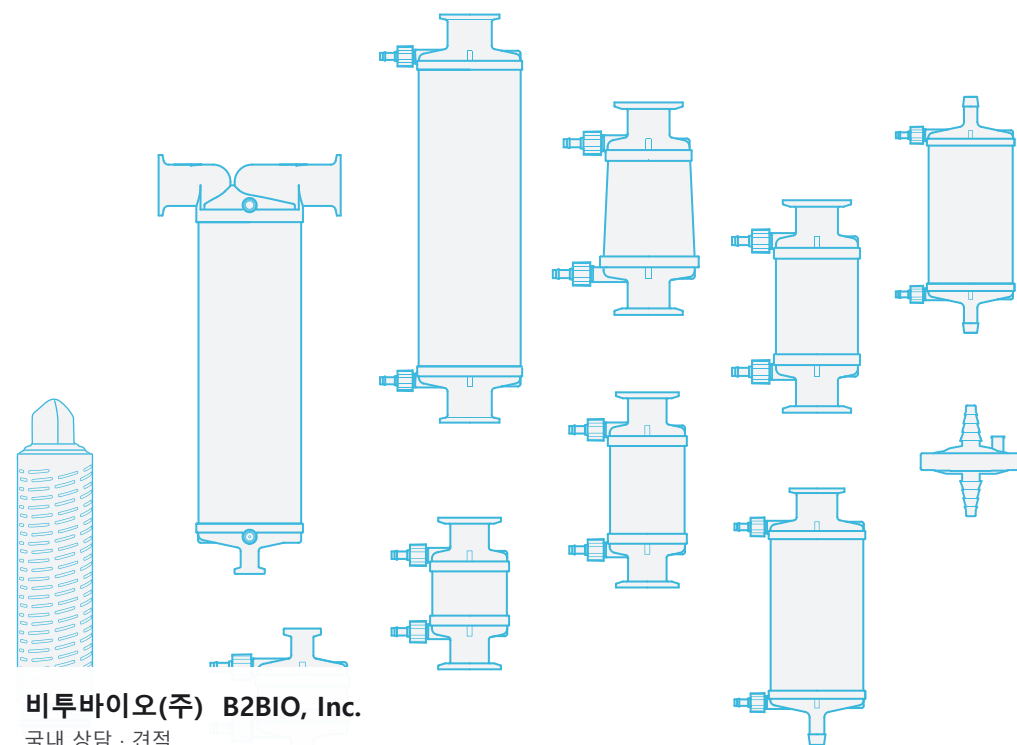


Our Mission

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



Filtration, Separation & Purification Solutions for Biopharma Applications



비투바이오(주) B2BIO, Inc.

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E-mail info@b2bio.co.kr
Web www.b2bio.co.kr



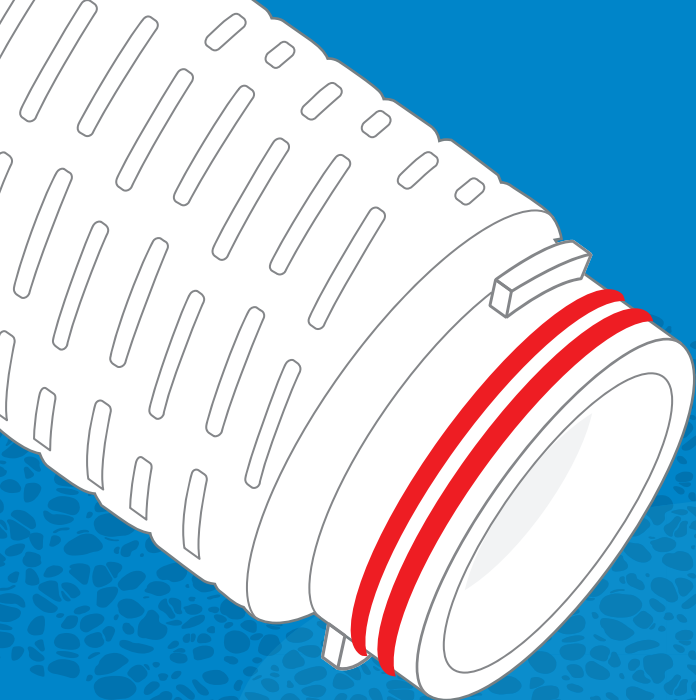
Please contact us for more information
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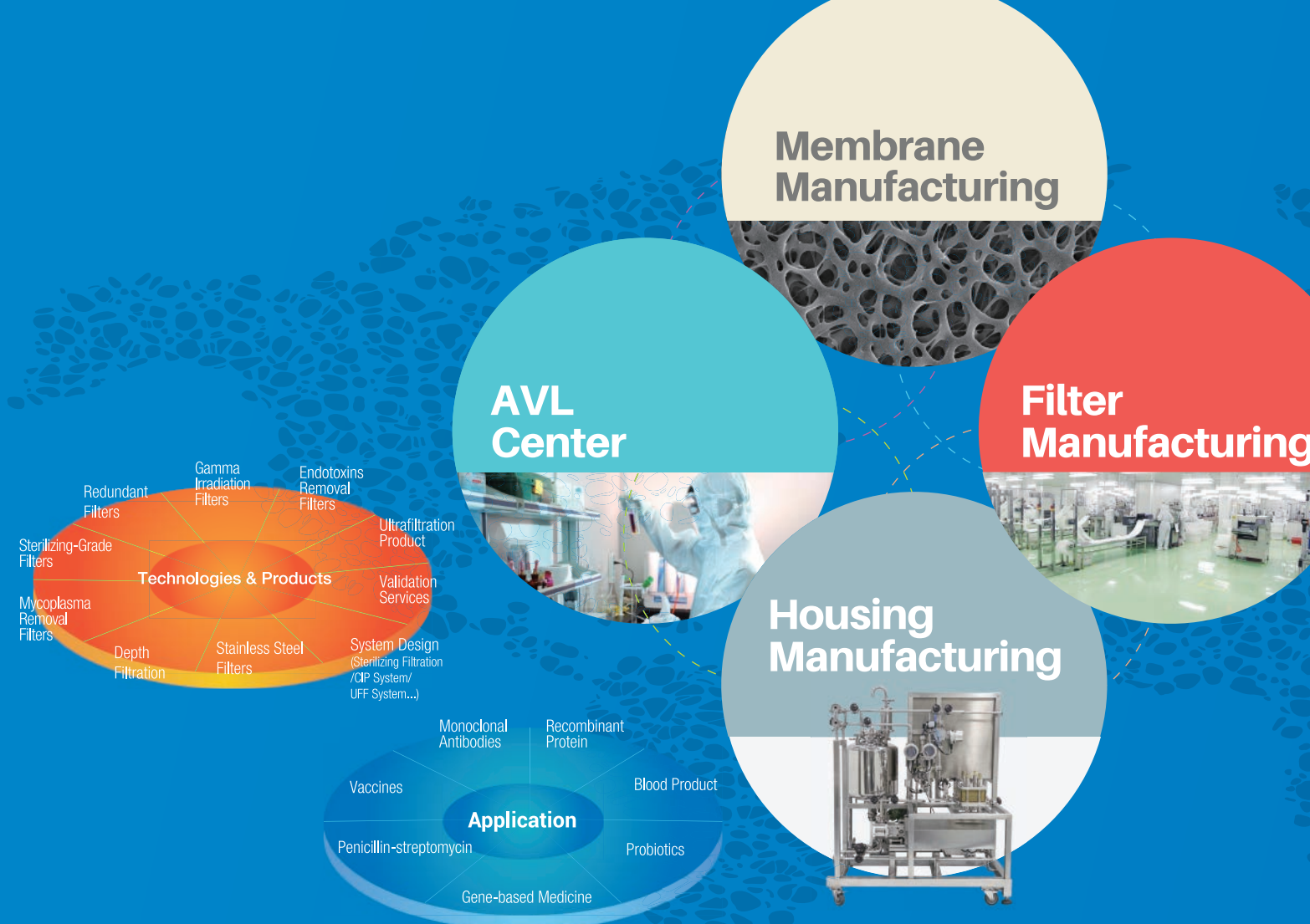
Filtration Separation Purification



Cobetter dedicates itself to providing Filtration, Separation, & Purification

Solutions across all industries. Cobetter provides over **6,200+** 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



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

C12 Biopharma & Semiconductor filtration products manufacturing
60000 SQM 2025.6

C8 R&D Headquarters Office(A tall building)

C9 Hollow-fiber Membranes for ECMO Production Plant

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



C1 Factory Membrane Filter Manufacturing
9400 SQM

C3 Factory Semiconductor & Biological Filter Manufacturing
13500 SQM

C5 Lab & Factory AVL Center & Bio-Pharma Single-use Bag Semi-litho Filter
41,000 SQM

C7 Factory Bio-materials Research Center
1300 SQM

C2 Factory Depth Filter Manufacturing
9000 SQM

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

C6 Life Center Life Center 33000 SQM



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



1000⁺ Equipments
480⁺ SOP
350⁺ Engineers

Life & Science Validation Center

- ①⑥ **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 semivolatle 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

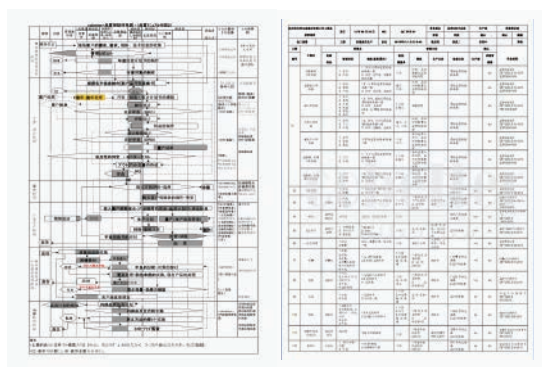
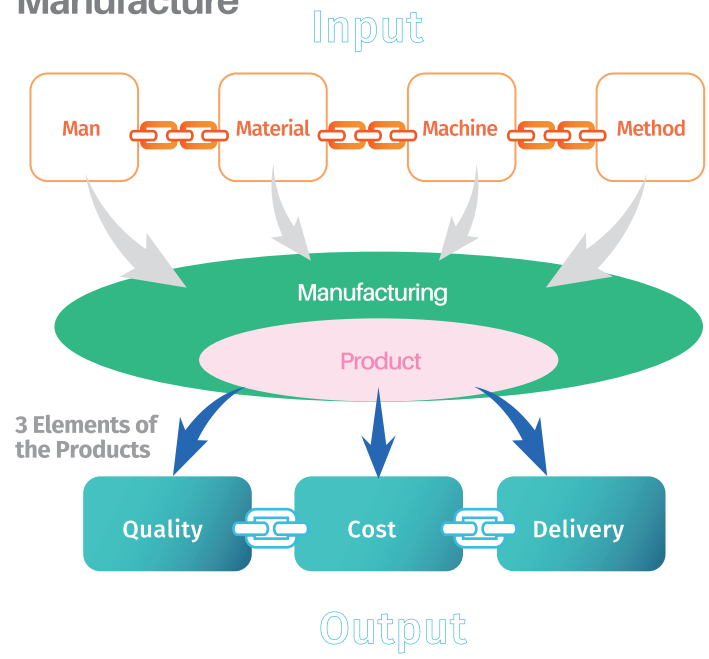
Advanced Quality Control Methods

Ensure that Every Product is Safe, Reliable, and Stable

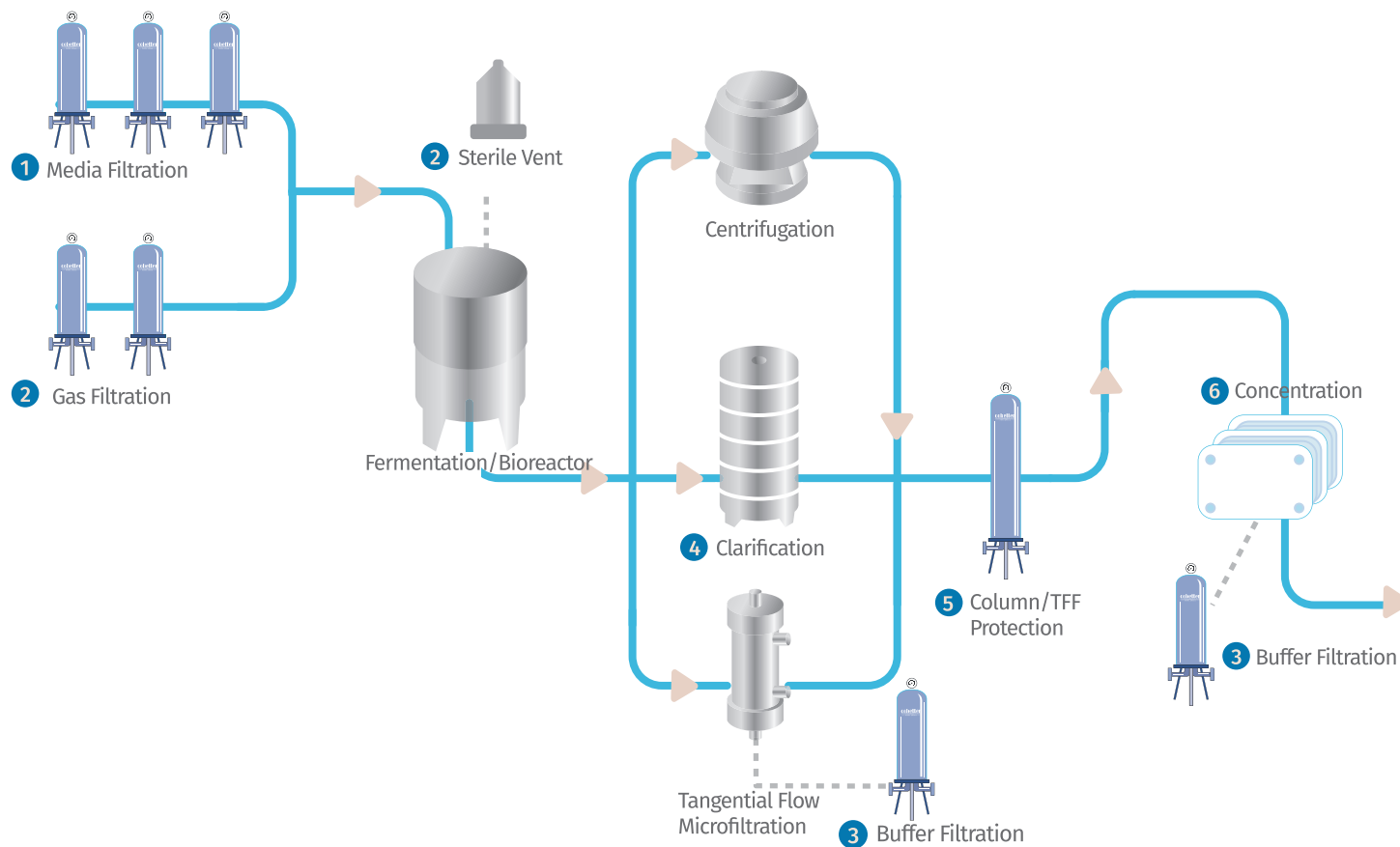
- Quality Assurance is based on the Quality Assurance System**
- Focus on the Production Process
- Implement 4M Quality Management Concept**
- Process and System Simultaneous Completion
- All Products are based on the QC Project Table**
- Produced as per SOP for Stable Production



4M Manufacture



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

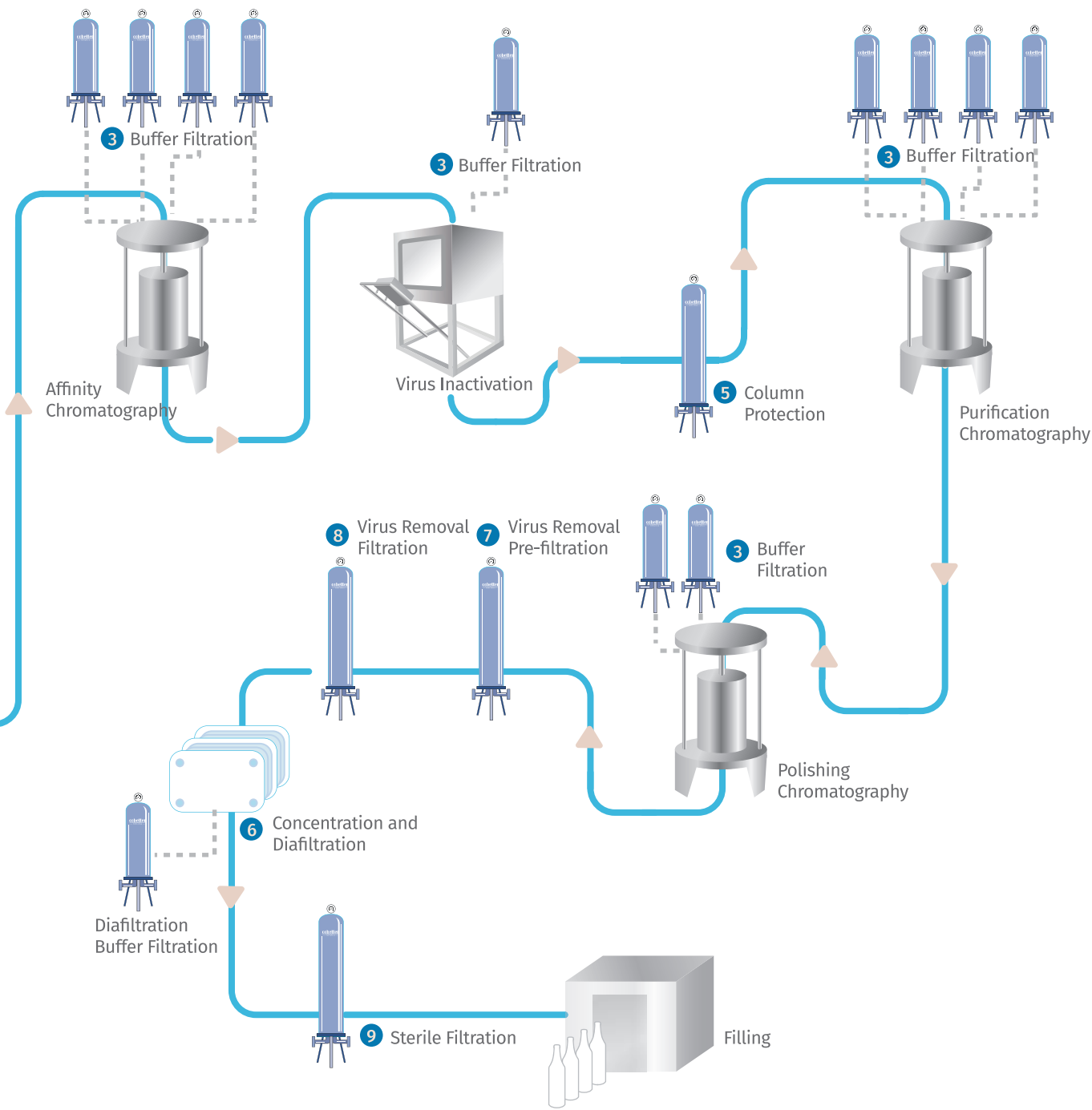
- Greclary CHV -Glass Fiber
- Excesal CHE -PP
- Excesal CHT -PP

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		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	6mm Hose Barb
Bricap C02	64mm	136mm	31 mm (1 1/4") Sanitary Flange	
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

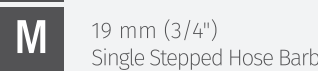
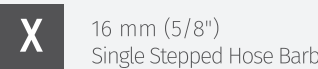
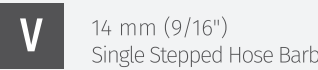
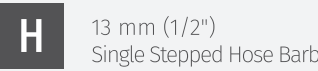
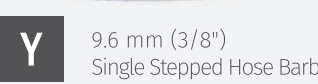
Item	Diameter	Max. Length	Inlet/Outlet	Vent/Drain
Bricap L02		142mm	14 mm (9/16") Sanitary Flange 19 mm (3/4") Sanitary flange 38 mm (1 1/2") Sanitary Flange 13 mm (1/2") Hose Barb 14 mm (9/16") Hose Barb 16 mm (5/8") Hose Barb 19 mm (3/4") Hose Barb 25 mm (1") Hose Barb	6mm Hose Barb
Bricap L03		190mm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



Bricap T Series Capsule Filters

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

Inlet /Outlet Connections



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 High Dirt Holding Capacity	P 10
Greclary CHV Filter High Dirt Holding Capacity and Retention Efficiency	P 13
Excesal CHT High Dirt Holding	P 15
Excesal CHE High Retention Efficiency	P 16

Pre-filtration and Redundant Filter Series

Purcise PAF Hydrophilic Sterile-Grade Filter with High Flow Rates	P 18
Purcise PLE Filter Hydrophilic Filter with Low Extractables	P 19
Safetect PME Hydrophilic Sterile-Grade Filter with Low Protein Binding	P 21
Corevital PMD Low Protein Binding and Hydrophilic Filter	P 28

Sterile-Grade Filter Series

Purcise SLE Filter Hydrophilic Sterile-Grade Filter with Low Extractables	P 20
Purcise SAF Filter Hydrophilic Sterile-Grade Filter with High Flow Rates	P 22
Purcise SPS Filter Hydrophilic Sterile-Grade Steam-in-Place (SIP) Filter	P 23
Corevital SMD Filter High Flow Rate, Low Protein Binding Hydrophilic Sterile Filter	P 26
Corevital SND Filter High Flow Rate, Low Protein Binding Hydrophilic Sterile Filter	P 27

Mycoplasma Removal Filter Series

Purcise MLE Filter Hydrophilic Filter with Low Extractables	P 24
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Gas Filtration Filter Series

Aegivast ACE Filter Hydrophobic Filter with High Retention Rates	P 30
Safesure AFM Filter Hydrophobic Filter with High Retention Rates	P 31
Corevital APB Filter Gamma-resistant Hydrophobic Filter	P 33

Other Products

Consieve UET & UFC Cassettes /Stainless Holder /System	P 35
Integrity Test Instrument	P 39
Clean Steam Bag	P 41
Vacuum Filter	P 41
Filter Housing	P 42

Clarification Filter Series

Claricap CSD & Roheap CSD Filter High Dirt Holding Capacity

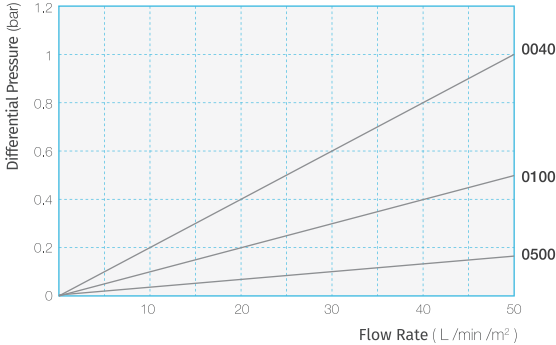


Features

- 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

Filtration Area

Specification	Single Layer	Double Layers
CDFC	23cm²	23cm²
L05	207cm²	115cm²
L10	414cm²	230cm²
CSCA	0.2m²	0.15m²
CSCC	0.5m²	0.4m²
CSCB	1.15m²	0.92m²
CSD 12" Per Layer	0.11m²	0.11m²
CSD 16" Per Layer	0.23m²	0.23m²

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

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

CDFC		CSD			P
Filter Format	Number of Layers	Filter Media	Removal Ratings	Type	Market
CDFC Claricap Lab	SS Single-Layer D Double-Layer	CSD Roheap CSD depth filter media	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 H0 0.02-0.2µm HP 0.02-0.2µm	PC Positive Charge	P Pharmaceutical



Cobetter Claricap L Depth Capsule Filters

	CSD				P
Filter Format	Filter Media	Number of Layers	Removal Ratings	Type	Market
L05SS Claricap L05 L10SS Claricap L10	CSD Roheap CSD depth filter media	SS Single-Layer D Double-Layer	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 H0 0.02-0.2µm HP 0.02-0.2µm	PC Positive Charge	P Pharmaceutical



Cobetter Claricap® D Depth Capsule Filters

				P
Filter Format	Number of Layers	Removal Ratings	Type	Market
CSCA ClaricapD08 CSCB Claricap D16 CSCC Claricap D08 Pro	SS Single-Layer D Double-Layer	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 H0 0.02-0.2µm HP 0.02-0.2µm	PC Positive Charge	P Pharmaceutical



CSD Depth Filter

CSD				D O E				P
Filter Format	Media Layers	Removal Ratings	Type	End Cap	Diameter	Number of Cell	O-ring Material	Market
CSD	SS Single-Layer II Double-Layer	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 H0 0.02-0.2µm HP 0.02-0.2µm	PC Positive Charge		12 12 inch 16 16 inch	Single-Layer A 1 Cell W 2 Cells Y 3 Cells G 4 Cells B 5 Cells N 9 Cells X 10 Cells Q 11 Cells T 12 Cells F 15 Cells D 16 Cells Double-Layer W 2 Cells G 4 Cells S 7 Cells X 10 Cells	S Silicone E EPDM V Fluoroelastomer T FEP/PFA encap-sulated O-rings F Fluorinated Polymer	P Pharmaceutical



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

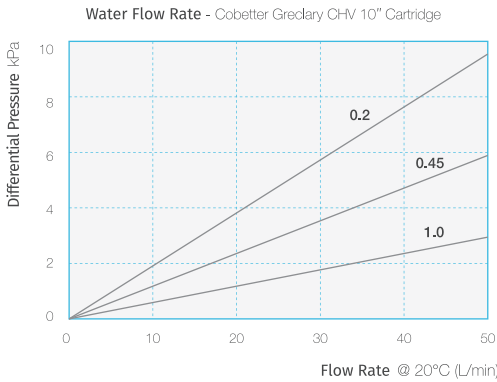
- Applications
- Pre-filtration of cell culture medium
 - Clarification of fermentation broth/cell cultures
 - Filtration blood products/serums
 - Filtration of colloids/viscous liquids

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



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



Inlet Outlet

- 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



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

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	0.5/0.6/0.8/1.5/5.0/10/20/40/70/90µm	

Effective Filtration Area

Bricap C	Bricap L	Bricap T	Cartridge
C01: 70cm²	L02: 375cm²	T10: 0.18m²	5" : 0.09m²
C02: 160cm²	L03: 530cm²	T20: 0.36m²	10": 0.18m²
C03: 260cm²	L05: 0.09m²	T30: 0.54m²	20": 0.36m²
	L10: 0.18m²		30": 0.54m²
	L20: 0.36m²		40": 0.72m²
	L30: 0.54m²		

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	0.2/0.3/0.65/1.0/3.0/5.0µm	

Effective Filtration Area

BriScale A50	Bricap C	Bricap L	Bricap T	Cartridge
A50: 20cm²	C01: 140cm²	L03: 0.1m²	T10: 0.36m²	5" : 0.18m²
	C02: 320cm²	L05: 0.18m²	T20: 0.72m²	10": 0.36m²
	C03: 500cm²	L10: 0.36m²	T30: 1.08m²	20": 0.72m²
		L20: 0.72m²		30": 1.08m²
		L30: 1.08m²		40": 1.44m²

Sterilization Capability

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

Exceal Series Part Number Configurator (PP)

Capsule Filter Example : C01TTTCHE03A1P

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

CHE02

CHE

0.2µm

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

P

Market

P

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

Inlet

Outlet

L02

Bricap L02 (noly CHT)

L03

Bricap L03

L05

Bricap L05

L10

Bricap L10

L20

Bricap L20

L30

Bricap L30

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

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

A

5

0

Capsule Formats

A

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)

Capsule Formats

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)

Capsule Formats

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)

Capsule Formats

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)

Cartridge Filter Example : ACHE03050SP

Cartridge Type

A

Standard Cartridge Pharmaceutical

Media

CHE02

CHE

0.2µm

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

cobetter
filtration

Filtration, Separation & Purification
Solutions for Biopharma Applications

- 17 -

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

Filtration, Separation & Purification
Solutions for Biopharma Applications

cobetter
filtration

- 18 -

Pre-filtration and Redundant Filter Series

Purcise PLE Filter
Hydrophilic Filter with Low Extractables



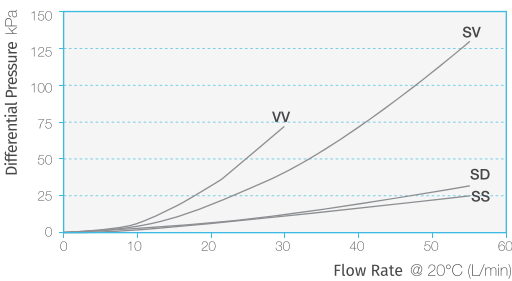
Features

- 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

Water Flow Rate- Cobetter Purcise PLE 0,8+0,45µm Bricap L10 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

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: 20cm²	C01 : 180cm²	L02: 0.12m²	T10: 0.55m²	5" : 0.28m²
	C02 : 420cm²	L03: 0.16m²	T20: 1.1m²	10": 0.55m²
	C03 : 660cm²	L05: 0.28m²	T30: 1.65m²	20": 1.1m²
	D01 : 350cm²	L10: 0.55m²		30": 1.65m²
		L20: 1.1m²		40": 2.2m²
		L30: 1.65m²		

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 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

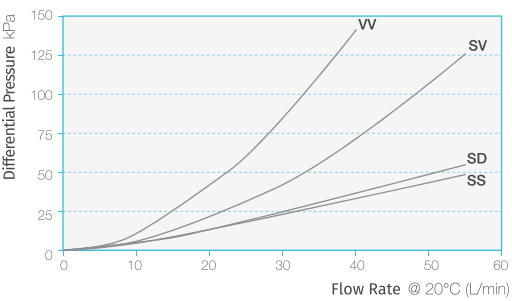
Effective Filtration Area

BriScale A50	Bricap C/D	Bricap L	Bricap T	Cartridge
A50: 20cm²	C01 : 180cm²	L02: 0.12m²	T10: 0.55m²	5" : 0.28m²
	C02 : 420cm²	L03: 0.16m²	T20: 1.1m²	10": 0.55m²
	C03 : 660cm²	L05: 0.28m²	T30: 1.65m²	20": 1.1m²
	D01 : 350cm²	L10: 0.55m²		30": 1.65m²
		L20: 1.1m²		40": 2.2m²
		L30: 1.65m²		

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

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	

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+0.1Nµm; 1.0+0.2Nµm	

Effective Filtration Area

BriScale A50	Bricap C/D	Bricap L	Bricap T	Cartridge
A50: 20cm²	C01 : 180cm²	L02 : 0.12m²	T10 : 0.55m²	5" : 0.28m²
	C02 : 420cm²	L03 : 0.16m²	T20 : 1.1m²	10" : 0.55m²
	C03 : 660cm²	L05 : 0.28m²	T30 : 1.65m²	20" : 1.1m²
	D01 : 350cm²	L10 : 0.55m²		30" : 1.65m²
		L20 : 1.1m²		40" : 2.2m²
		L30 : 1.65m²		

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

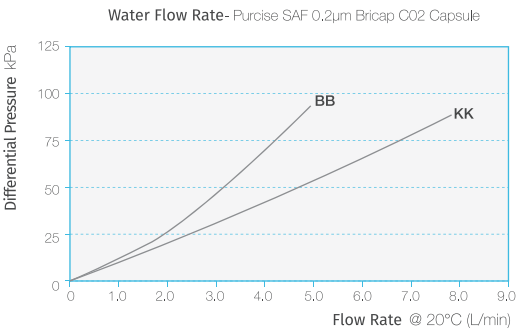
Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

Effective Filtration Area

BriScale A50	Bricap C/D	Bricap L	Bricap T	Cartridge
A50: 20cm²	C01 : 180cm²	L02: 0.12m²	T10: 0.55m²	5" : 0.28m²
	C02 : 420cm²	L03: 0.16m²	T20: 1.1m²	10" : 0.55m²
	C03 : 660cm²	L05: 0.28m²	T30: 1.65m²	20" : 1.1m²
	D01 : 350cm²	L10: 0.55m²		30" : 1.65m²
		L20: 1.1m²		40" : 2.2m²
		L30: 1.65m²		

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



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	

Sterile-Grade Filter Series

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

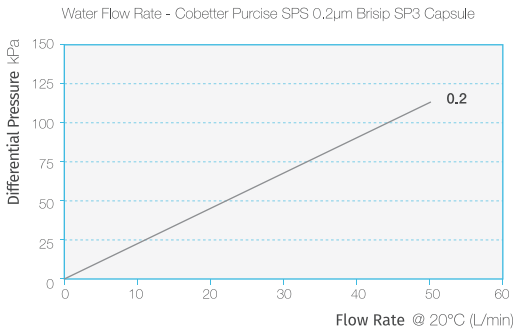


Features

- 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 m²

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
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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: 20cm²	C01 : 180cm²	L02: 0.12m²	T10: 0.55m²	5" : 0.28m²
	C02 : 420cm²	L03: 0.16m²	T20: 1.1m²	10": 0.55m²
	C03 : 660cm²	L05: 0.28m²	T30: 1.65m²	20": 1.1m²
	D01 : 350cm²	L10: 0.55m²		30": 1.65m²
		L20: 1.1m²		40": 2.2m²
		L30: 1.65m²		

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

BriScale Disc Liquid Filter

A 5 0 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)
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Cartridge Filter Example : APLES050SP

Cartridge Filters

A Cartridge Type A Standard Cartridge Pharmaceutical	Media 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 PMEA PME 0.8+0.1Nµm PMEB PME 1.0+0.2Nµm MLEB MLE 0.2+0.1µm MLES MLE 0.45+0.1µm	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	P Market P
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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

Effective Filtration Area

BriScale A50	Bricap C/D	Bricap L	Bricap T	Cartridge
A50: 20cm²	C01 : 180cm²	L02: 0.12m²	T10: 0.55m²	5" : 0.28m²
	C02 : 420cm²	L03: 0.16m²	T20: 1.1m²	10": 0.55m²
	C03 : 660cm²	L05: 0.28m²	T30: 1.65m²	20": 1.1m²
	D01 : 350cm²	L10: 0.55m²		30": 1.65m²
		L20: 1.1m²		40": 2.2m²
		L30: 1.65m²		

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: 20cm²	C01 : 180cm²	L02: 0.12m²	T10: 0.55m²	5" : 0.28m²
	C02 : 420cm²	L03: 0.16m²	T20: 1.1m²	10" : 0.55m²
	C03 : 660cm²	L05: 0.28m²	T30: 1.65m²	20" : 1.1m²
	D01 : 350cm²	L10: 0.55m²		30" : 1.65m²
		L20: 1.1m²		40" : 2.2m²
		L30: 1.65m²		

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

Corevital PMD

Low Protein Binding and Hydrophilic Filter



Features

- Composed of dobule-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: 20cm²	C01 : 180cm²	L02 : 0.12m²	T10 : 0.55m²	5" : 0.28m²
	C02 : 420cm²	L03 : 0.16m²	T20 : 1.1m²	10" : 0.55m²
	C03 : 660cm²	L05 : 0.28m²	T30 : 1.65m²	20" : 1.1m²
	D01 : 350cm²	L10 : 0.55m²		30" : 1.65m²
		L20 : 1.1m²		40" : 2.2m²
		L30 : 1.65m²		

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	Inlet	Outlet	Membrane Type	Sterilization	Quantity/Package	Market
C01 Bricap C01	K	14 mm (9/16") Sanitary Flange	PMDS PMD 1.0+0.45µm	A Autoclavable	1 1 / pkg	P
C02 Bricap C02	T	19 mm (3/4") Sanitary Flange	SMDN SMD 0.2µm	G Gamma Compatible		
C03 Bricap C03	F	31 mm (1 1/4") Sanitary Flange	SMDS SMD 0.45+0.2µm	S Sterile		
	A	6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb with Filling Bell (liquids & outlet only)	SMDH SMD 0.65+0.2µm			
	B	6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb	SMDA SMD 0.2+0.1µm			
	L	3.2mm(1/8") Hose Barb	SMDB SMD 0.2+0.2µm			
	Y	9.6mm(3/8") Hose Barb	SNDN SND 0.2µm			
	H	13mm(1/2") Hose Barb	SNDB SND 0.2+0.2µm			
			SNDS SND 0.45+0.2µm			

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)

Cartridge Filter Example : APMDS050SP

Cartridge Filters

Cartridge Type	Media	Length	Code	O-ring Material	Market
A Standard Cartridge Pharmaceutical	PMDS PMD 1.0+0.45µm	05 5 inch	0 DOE	E EPDM	P
	SMDN SMD 0.2µm	10 10 inch	2 226 / Flat	V Fluoroelastomer	
	SMDS SMD 0.45+0.2µm	20 20 inch	7 226 / Fin	S Silicone	
	SMDH SMD 0.65+0.2µm	30 30 inch	3 222 / Flat	P FEP/PFA encap-sulated O-rings	
	SNDN SND 0.2µm	40 40 inch	8 222 / Fin		
	SNDB SND 0.2+0.2µm				
	SNDS SND 0.45+0.2µm				

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

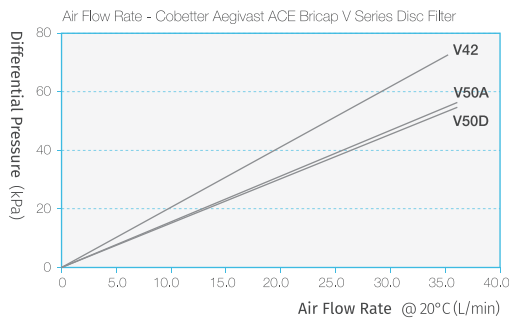
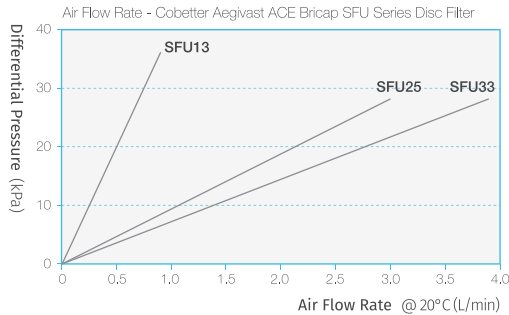
Type	Bricap SFU13 / SFU25 / SFU33	Bricap V42 / V50A / V50D
Membrane	Hydrophobic polytetrafluoroethylene(PTFE)	Hydrophobic polytetrafluoroethylene(PTFE)
Support layer	Polyester (PET)	Polyester or Polypropylene(PET/PP)
Core/Cage /End cap	Polypropylene(PP)	Polypropylene(PP)
Capsule shell	0.2 µm	

Effective Filtration Area

Bricap SFU	Bricap V
SFU13 : 0.72cm²	V42 : 13.8cm²
SFU25 : 3.4cm²	V50A : 20cm²
SFU33 : 4.5cm²	V50D : 20cm²

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



Gas Filtration Filter Series

Safesure AFM Filter
Hydrophobic Filter with
High Retention Rates

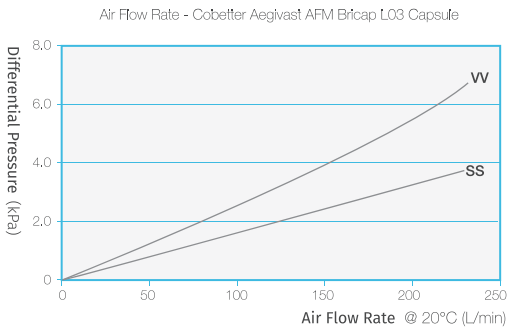


Features

- 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 1.3mm(1/2") Hose Barb	□□□□ Membrane Type AFMB AFM 0.2µm	□ Sterilization A Autoclavable G Gamma Compatible S Sterile	□ Quantity/Package 1 1 / pkg	P Market P
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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	P Market P
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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	□ Sterilization A Autoclavable	□ Quantity/Package 1 1 / pkg	P Market P
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Brisip Steam-in-Place Capsule Filters

S P 3 Capsule Formats SP3 Brisip SP3	□ □ 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	P Market P
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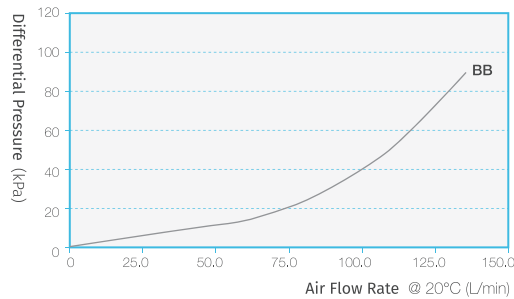
Cartridge Filter Example : AAFMB050SP

Cartridge Filters

A 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 encap-sulated O-rings	P Market P
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Air Flow Rate - Cobetter Corevital APB Bricap C02 Capsule



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

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

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

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

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 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

Capsule Filter Example :C01BBAPBBS1P

Capsule Formats		Inlet	Outlet	Membrane Type	Sterilization	Quantity/Package	Market
C01	Bricap C01	K	14 mm (9/16") Sanitary Flange	APBB	A Autoclavable	1 1 / pkg	P
C02	Bricap C02	T	19 mm (3/4") Sanitary Flange		G Gamma Compatible		
C03	Bricap C03	F	31 mm (1 1/4") Sanitary Flange		S Sterile		
		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				

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	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

The diagram illustrates three capsule formats and their corresponding gauge port types. On the left, three square icons represent the capsule formats: T10 (a single square), T20 (a single square), and T30 (two squares side-by-side). In the center, a schematic shows a vertical line with two horizontal branches at the top, labeled 'Inlet' and 'Outlet'. On the right, a single square icon is shown above a list of gauge port types: 'S' for 38 mm (1 1/2") Sanitary Flange, 'T' for 19 mm (3/4") Sanitary Flange, and 'N' for Without Gauge Port. Below the schematic, two more options are listed: 'SS' for 38mm (1 1/2") Sanitary Flange Inlet & Outlet and 'SM' for 38mm (1 1/2") Sanitary Flange Inlet & 19 mm (3/4") Hose Barb Outlet.

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

A	5	0		
Capsule Formats			Inlet	Outlet
U13	Bricap SFU13	0.72cm ²	CP	Female Luer Lok Inlet and Male Luer Lok Outlet (Bricap SFU Series only)
U25	Bricap SFU25	3.4cm ²		
U33	Bricap SFU33	4.5cm ²	EE	1/4"-3/8" (6-9 mm) Stepped Hose Barb Inlet and Outlet (Bricap V42 only)
V42	Bricap V42	13.8cm ²		
V5A	Bricap V50A	20cm ²	BB	1/4"-1/2" (6-13 mm) Stepped Hose Barb Inlet and Outlet (Bricap V50A & V50D only)
V5D	Bricap V50D	20cm ²		

A					P
Cartridge Type	Media	Length	Code	O-ring Material	Market
A Standard Cartridge Pharmaceutical	APBB APB 0.2µm	05 5 inch 10 10 inch 20 20 inch 30 30 inch 40 40 inch	0 DOE 2 226 / Flat 7 226 / Fin 3 222 / Flat 8 222 / Fin	E EPDM V Fluoroelastomer S Silicone P FEP/PFA encapsulated O-rings	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.

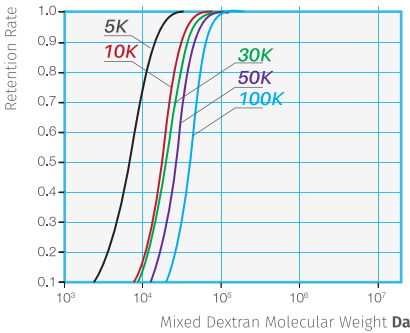
Due to its design, it is easy to amplify/increase based on specific process requirements. The inner gaskets make installation/cleaning/storage/replacement quick and easy. Low working volume and high efficiency ensure product yields.

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	1/3/5/8/10/30/50/100/300/500/1000KD(PES) 1/2/3/5/8/10/30/100/300KD, 3KH/3KL(RC)
Operating Temperature Range	4-50°C
Max. Operating Pressure	4.0 bar @ 50°C
Diffusion Flow (Air)	0.11 m² ≤12ml/min@1.0bar, 0.46 m² ≤50ml/min@1.0bar 0.5 m² ≤55ml/min@1.0bar, 2.5 m² ≤270ml/min@1.0bar
Pressure Drop	0.3~0.6 bar (Circulation Flow Rate 6L/min/m²)



Types	Available Size	Applications	Throughput	Notes
Lab LA	100 cm² 200 cm² 0.11 m²	R&D R&D, Pilot Production	200-2000ml 5-50L	Membrane Cassette ; Stainless Steel Holder required
Flow FL	0.46m² 0.5m² 2.33m² 2.5m²	Pilot Production, Large Scale Production Pilot Production, Large Scale Production	> 50L > 50L	

PES Ultrafiltration Membrane - Mixed Dextran Retention Curve



Ordering Information

Cobetter Consieve UET Cassettes(Coarse Screen)

						
Application	Format	Screen Type	NMWL	Type	Effective Filtration Area	Market
UFE Cobetter Consieve UET	LA Lab FL Flow	O Coarse Screen	001 1 KD 003 3 KD 005 5 KD 008 8 KD 010 10 KD 030 30 KD 050 50 KD 100 100 KD 300 300 KD 500 500 KD 01K 1000 KD	Blank	001 100 cm²(only Lab) 002 200 cm²(only Lab) 010 0.11 m²(only Lab) 050 0.46 m²(only Flow) 055 0.50 m²(only Flow) 250 2.33 m²(only Flow) 270 2.50 m²(only Flow)	P
UFE Cobetter Consieve UET	FL Flow	O Coarse Screen		B	050 0.46 m²(only Flow) 055 0.50 m²(only Flow) 250 2.33 m²(only Flow) 270 2.50 m²(only Flow)	

Cobetter Consieve UETA Cassettes(Tight Screen)

						
Application	Format	Screen Type	NMWL	Type	Effective Filtration Area	Market
UFE Cobetter Consieve UET	LA Lab FL Flow	A Tight Screen	001 1 KD 003 3 KD 005 5 KD 008 8 KD 010 10 KD 030 30 KD 050 50 KD 100 100 KD 300 300 KD 500 500 KD 01K 1000 KD	Blank	001 100 cm²(only Lab) 002 200 cm²(only Lab) 010 0.11 m²(only Lab) 055 0.50 m²(only Flow) 270 2.50 m²(only Flow)	P
UFE Cobetter Consieve UET	FL Flow	A Tight Screen		B	055 0.50 m²(only Flow) 270 2.50 m²(only Flow)	

Cobetter Consieve UETV Cassettes(Suspended Coarse)

						
Application	Format	Screen Type	NMWL	Type	Effective Filtration Area	Market
UFE Cobetter Consieve UET	LA Lab FL Flow	V Suspended Coarse	001 1 KD 003 3 KD 005 5 KD 008 8 KD 010 10 KD 030 30 KD 050 50 KD 100 100 KD 300 300 KD 500 500 KD 01K 1000 KD	Blank	002 200 cm²(only Lab) 010 0.11 m²(only Lab) 055 0.50 m²(only Flow) 270 2.50 m²(only Flow)	P
UFE Cobetter Consieve UET	FL Flow	V Suspended Coarse		B	055 0.50 m²(only Flow) 270 2.50 m²(only Flow)	

Ordering Information

Cobetter Consieve UFC Cassettes(Coarse Screen)

						P
Application	Format	Screen Type	NMWL	Type	Effective Filtration Area	Market
UFC Cobetter Consieve UFC	LA Lab FL Flow	O Coarse Screen	001 1 KD 002 2 KD 003L 3 KDL 003H 3 KDH 003 3 KD 005 5 KD 008 8 KD 010 10 KD 030 30 KD 100 100 KD 300 300 KD	Blank	001 100 cm²(only Lab) 002 200 cm²(only Lab) 010 0.11 m²(only Lab) 050 0.46 m²(only Flow) 055 0.50 m²(only Flow) 250 2.33 m²(only Flow) 270 2.50 m²(only Flow)	P
UFC Cobetter Consieve UFC	FL Flow	O Coarse Screen		B	050 0.46 m²(only Flow) 055 0.50 m²(only Flow) 250 2.33 m²(only Flow) 270 2.50 m²(only Flow)	

Cobetter Consieve UFCA Cassettes(Tight Screen)

						P
Application	Format	Screen Type	NMWL	Type	Effective Filtration Area	Market
UFC Cobetter Consieve UFC	LA Lab FL Flow	A Tight Screen	030 30 KD	Blank	001 100 cm²(only Lab) 002 200 cm²(only Lab) 010 0.11 m²(only Lab) 055 0.50 m²(only Flow) 270 2.50 m²(only Flow)	P
UFC Cobetter Consieve UFC	FL Flow	A Tight Screen		B	055 0.50 m²(only Flow) 270 2.50 m²(only Flow)	

Cobetter Consieve UFCV Cassettes(Suspended Coarse)

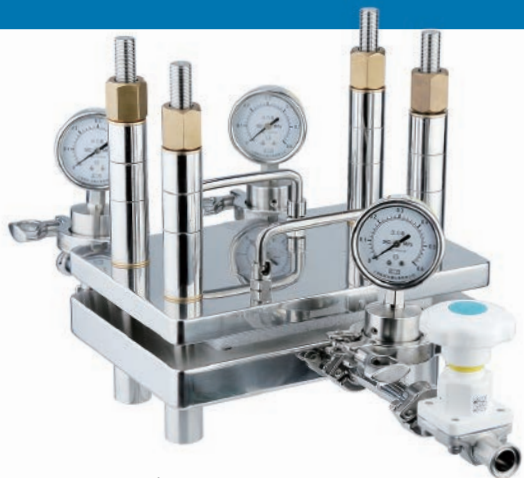
						P
Application	Format	Screen Type	NMWL	Type	Effective Filtration Area	Market
UFC Cobetter Consieve UFC	LA Lab FL Flow	V Suspended Coarse	001 1 KD 002 2 KD 003L 3 KDL 003H 3 KDH 003 3 KD 005 5 KD 008 8 KD 010 10 KD 030 30 KD 100 100 KD 300 300 KD	Blank	002 200 cm²(only Lab) 010 0.11 m²(only Lab) 055 0.50 m²(only Flow) 270 2.50 m²(only Flow)	P
UFC Cobetter Consieve UFC	FL Flow	V Suspended Coarse		B	055 0.50 m²(only Flow) 270 2.50 m²(only Flow)	

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	01 01 0.1 m² 05 0.5 m² 25 2.5 m² ...	S S 316L	T15 T15 DN15 T20 DN20 T38 DN38	S S Silicone	A A Mirror Polish	X X 0.6Mpa	P P Pharmaceutical

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 fuction.
- Powerful windows system supports real-time display of test curves.
- 50G large memory capacity, backup date 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 again 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 damend.
- 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.

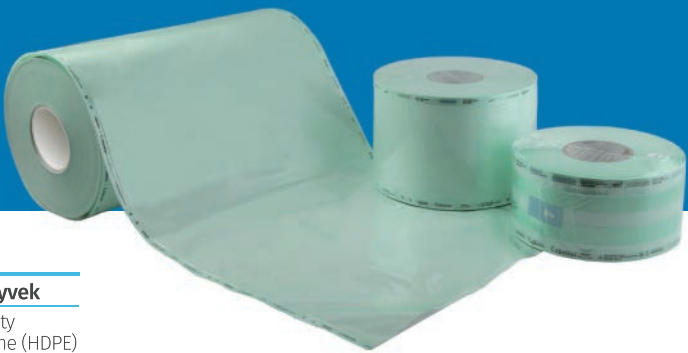
Stronger Hardware

- 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: CertitestTM 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 coupledmemory) 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(bouble point + diffusion flow), pressure holding test, diffusion flow test, water immersion test;
Operation condition	Ambient temperature: 0°C ~ 40°C Relative humidity: ≤80%
Histroy 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	

S T P		
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

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



▲ Arjo60-70 Dialysis Paper
▼ Dupont Tyvek



Filter Housing Catalog



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	01	05	F	S	I	T25	S	A	X	P
H-SCF-B two drain valves	01 1 round	05 5 inch	F 304	S 226	T Tri-clamp	T25 Tri-clamp DN25	S Silicone	A Mirror polishing	X 0.6MPa	P Pharmaceutical
		10 10 inch	S 316L	T 222			E EPDM	B Internal Electrolytic-polishing	Y 1.0MPa	
		20 20 inch		D DOE			V Viton			
		30 30 inch					F PTFE			

Vent Housing

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



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	05 5 inch	F 304	S 226	T Tri-clamp	T25 Tri-clamp DN25	S Silicone	A Mirror Polish	X 0.6MPa	P Pharmaceutical
		10 10 inch	S 316L		F Flange	T38 Tri-clamp DN38	E EPDM	B Internal Electro-polish	Y 1.0MPa	
		20 20 inch				T50 Tri-clamp DN50	V Viton			
		30 30 inch				F25 Flange DN25				

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	T	T25	S	A	X	P
	01 1 membrane	47 47mm	F 304	T Tri-clamp	T25 Tri-clamp DN25	S Silicone	A Mirror Polish	X 0.6MPa	P Pharmaceutical
		90 90mm	S 316L	L Screwed Connection		E EPDM	B Internal Electro-polish		
		142 142mm				V Viton			
		200 200mm							
		293 293mm							

