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

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

Features

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

Typical Applications

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

Quality Control

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

Removal Rating and Effective Filtration Area

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

Materials of Construction

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

Maximum Differential Pressure

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

Integrity Test Standards

| Standard - 10inch | Bubble Point @20 °C≥ 0.32 MPa, air, wetted with water |
|-------------------------------|--|
| (0.55m ²) | Air Diffusion @20 °C≤28 ml/min @0.275 MPa, wetted with water |
| Q Series - 10inch (0.55m²) | Bubble Point @20 °C≥ 0.39 MPa, air, wetted with water |
| | Air Diffusion @20 °C≤28 ml/min @0.275 MPa, wetted with water |

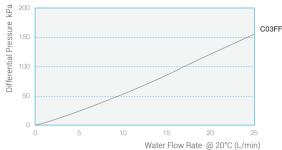
Sterilization

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

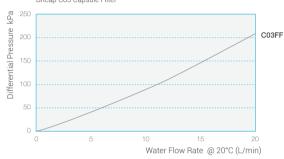


Flow Rates

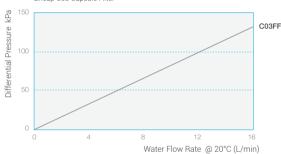




Water Flow Rate — Cobetter Purcise SAF 0.45/0.2 μm Membrane Bricap C03 Capsule Filter



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



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

SAFS SAFH
SAFN

10

10

10

10

10

10

20

30

40

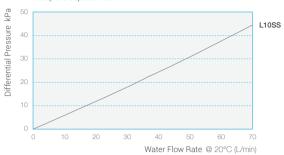
50

60

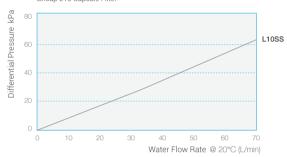
70

Water Flow Rate @ 20°C (L/min)

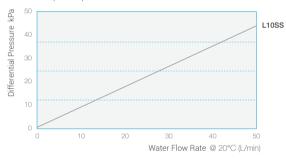
Water Flow Rate — Cobetter Purcise SAF 0.2 µm Membrane Bricap L10 Capsule Filter



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



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



Regulatory Compliance

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

Polyethersulfone (PES) material, optimal filter for final filtration



Features

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

Typical Applications

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

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

Removal Rating and Effective Filtration Area

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

Materials of Construction

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

Maximum Differential Pressure

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

Integrity Test Standards

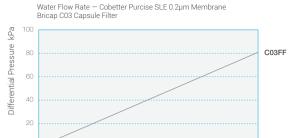
| Standard - 10inch | Bubble Point @20 °C≥ 0.32 MPa, air, wetted with water | | | |
|-------------------|--|--|--|--|
| (0.55m²) | Air Diffusion @20 °C≤28 ml/min @0.275 MPa, wetted with water | | | |
| Q Series - 10inch | Bubble Point @20 °C≥ 0.39 MPa, air, wetted with water | | | |
| (0.55m²) | Air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

Sterilization

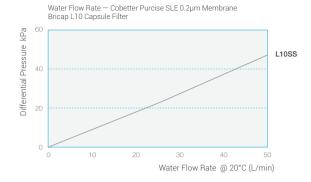
| A - Standard Cartridge/ | Can be steam sterilized for 30 minutes at 135 °C with 50 cycles (< 30 kPa) | |
|---|---|--|
| H - High Area Cartridge 1 | Can be autoclaved 50 cycles for 30 minutes at 130°C | |
| L Lligh Area Cortridge 2 | Can be steam sterilized for 30 minutes at 135 °C with 30 cycles (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

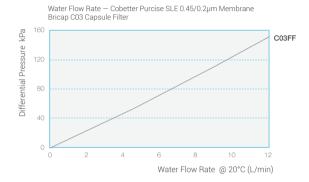


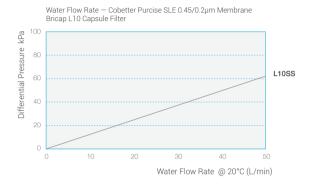
Flow Rates

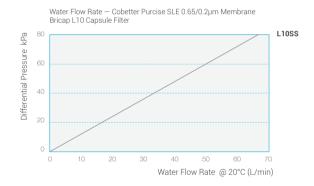


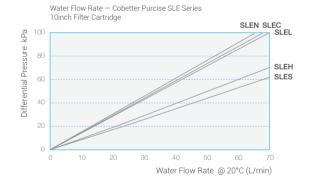
Water Flow Rate @ 20°C (L/min)











Regulatory Compliance

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

Purcise SAF/SLE Filter

Ordering Information

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

Bricap T20

Bricap T30

T20

T30

Flange Inlet & Outlet

SM 38 mm (1 1/2") Sanitary

Flange Inlet & 19 mm

(3/4") Hose Barb Outlet

Sanitary Flange

Sanitary Flange

Without Gauge Port

19 mm (3/4")

| Bricap HL Series Capsule Filter | | | | | | |
|---|---|--|---|----------------------------------|---------------------------------|-------------------------|
| Capsule Format HL02 Bricap HL02 HL03 Bricap HL05 HL10 Bricap HL10 HL20 Bricap HL10 HL20 Bricap HL20 HL30 Bricap HL20 HL30 Bricap HL30 HL30 Bricap HL30 Bricap HT Series Capsule Filter Capsule Format HT02 Bricap HT02 HT03 Bricap HT03 HT05 Bricap HT03 HT06 Bricap HT05 HT10 Bricap HT05 HT10 Bricap HT00 HT20 Bricap HT00 HT30 Bricap HT30 Gauge Port Type S 38 mm (1 1/2") Sanitar N None | anitary Flange itary Flange ise Barb Barb Barb Barb Barb Barb Barb Barb | nbrane Type FN HSAF 0.2 µm FN LSAF 0.2 µm FS HSAF 0.45/0.2 µm FS LSAF 0.45/0.2 µm FH HSAF 0.65/0.2 µm FH LSAF 0.65/0.2 µm FN LSLE 0.2 µm FN LSLE 0.2 µm FN LSLE 0.2 µm FN LSLE 0.45/0.2 µm | Sterilization A Autoclavable G Gamma Compatible S Sterile C Cleansteam Bag Sterile Package | Quantity/ Package 1 1 /pkg | Category Blank Standard Q | Pharmaceutical Grade |
| Brisip SP3 Series Capsule Filter | | | | | | |
| SP3 Brisip SP3 S 38 mm (1 1/2") Sanitary Flange | Membrane Type SAFN SAF 0.2µm SAFS SAF 0.45/0.2µm SAFH SAF 0.65/0.2µm SLEN SLE 0.2µm SLES SLE 0.45/0.2 µm SLEH SLE 0.65/0.2 µm SLEL SLE 0.8/0.2 µm SLEL SLE 0.8/0.2 µm | n (compatible with and drain valve u m T Both using quick n (compatible with V Both using 13 m | n hose barb quick coupling Stäubli connector), sing 6 mm hose barb | Quantity/ Package 1 1 /pkg | Category Blank Standard Q | Pharmaceutical Grade |
| BriScale A50 Liquid Disc Filter | | |] [| | | P |
| Disc Filter Format Inlet/Outlet A50 BriScale A50 BB 6-13 mm (1/4"-1/2") S Barb Inlet and Outlet (BA 6-13 mm (1/4"-1/2") S Barb Inlet and Outlet (Outlet with Filling Bel | Stepped Hose No Filling Bell) Stepped Hose SAF SLE SLE | FN SAF 0.2µm A FS SAF 0.45/0.2µm G FH SAF 0.65/0.2µm S EN SLE 0.2µm ES SLE 0.45/0.2 µm | F | Package 1 /pkg | Category Blank Standard Q | Pharmaceutical Grade |
| Bricap SFU Series Syringe Filter (No Vent) | | H SLE 0.65/0.2 μm L SLE 0.8/0.2 μm | | | | |
| Syringe Filter Format Inlet/Outlet | SLE | EC SLE 1.2/0.2 μm | | | | |
| U13 Bricap SFU13 U25 Bricap SFU25 U33 Bricap SFU33 CP Female luer lock male luer lock | | | | | | |
| Bricap SFV Series Syringe Filter (With | Luer Vent) | | | | | |
| Syringe Filter Format Inlet/Outlet | | | | | | |
| | | | | | | |

Purcise SLEB Filter

Hydrophilic Sterilizing-Grade Filte Low Protein Adsorption

Sterile filtration products specifically designed for complex fluids.



Features

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

Typical Applications

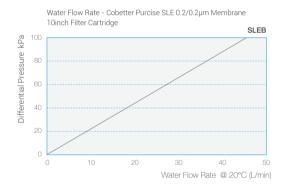
Final sterile filtration Sterile filtration of complex fluids, liposome Sterile filtration of emulsion, high viscous fluids

Quality Control

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

Removal Rating and Effective Filtration Area

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



Materials of Construction

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

Maximum Differential Pressure

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

Integrity Test Standards

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



Sterilization

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

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

Regulatory Compliance

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



Purcise SLEB Filter

Ordering Information

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

Flange Inlet & 19 mm

(3/4") Hose Barb Outlet

Sanitary Flange

N Without Gauge Port

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

Purcise SLTS FilterSterilizing-Grade Filter with Low Adsorption



Features

Low cytotoxicity Low adsorption

Typical Applications

Culture-medium sterile filtration

Quality Control

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

Removal Rating and Effective Filtration Area

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

Materials of Construction

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

Maximum Differential Pressure

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

Integrity Test Standards

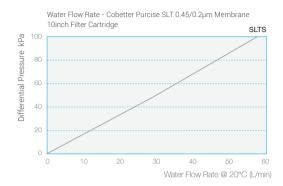
| Standard - 10inch | Bubble Point @20 °C≥ 0.34 MPa, air, wetted with water |
|-------------------|---|
| (0.55m²) | Air Diffusion @20 °C≤ 28 ml/min @0.275 MPa, wetted with water |

Sterilization

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



Water Flow Rate



Regulatory Compliance

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

Purcise SBVS Filter Sterilizing-Grade Filter

High loading, low adsorption



Typical Applications

Animal vaccine filtration
Paclitaxel albumin solution filtration

Quality Control

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

Removal Rating and Effective Filtration Area

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

Maximum Operating Pressure

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

Materials of Construction

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

Maximum Differential Pressure

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

Integrity Test Standards

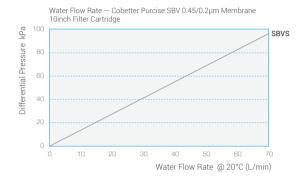
| Standard - 10inch | Bubble Point @20 °C≥ 0.39 MPa, air, wetted with water |
|-------------------|--|
| $(0.55m^2)$ | Air Diffusion @20 °C≤28 ml/min @0.275 MPa, wetted with water |

Sterilization

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



Flow Rates



Regulatory Compliance

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

Purcise SLTS/SBVS Filter

Ordering Information

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



Capsule Format

T10 Bricap T10

Bricap T20

Bricap T30

T20

T30

SS 38 mm (1 1/2") Sanitary

Flange Inlet & Outlet

SM 38 mm (1 1/2") Sanitary

Flange Inlet & 19 mm

(3/4") Hose Barb Outlet

Inlet/Outlet

Gauge Port Type

S 38 mm (1 1/2")

Sanitary Flange

Sanitary Flange

Without Gauge Port

19 mm (3/4")

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

Purcise SEAS Filter Sterilizing-Grade Filter

Sterile filtration specially developed for complex fluids



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

ISO 9001:2015 manufacturing facility



SEAS(0.45/0.2 μm)

A - Standard Cartridge (10") 0.55 m²

Materials of Construction

Intermediate product filtration

Features

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

Maximum Differential Pressure

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

Integrity Test Standards

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

Sterilization

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

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

Regulatory Compliance

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



Purcise SEAS Filter

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