



Sartobran[®] P 0.45 µm

Sterilizing Grade Filter Elements

Product Information

- Ideally suited for bioburden and particle reduction
- Highest product yield due to extremely low unspecific adsorption
- First choice for processing high value biological solutions



Outstanding Bioburden Reduction

Sartobran[®] P 0.45 µm rated filter elements are ideally suited for bioburden and defined particle reduction from bio-pharmaceutical solutions. They can be used for protection of sterilizing grade membrane filters or subsequent downstream processing equipment in biotech production processes.

Highest Product Yield

Sartobran[®] P's cellulose acetate membrane provides the lowest unspecific adsorption of any membrane material available, ensuring the highest product recovery rates.

Flexibility & Compatibility

Sartobran[®] P 0.45 µm filters are available with various filtration areas from 0.03 m² | 0.32 ft² up to 1.8 m² | 19.4 ft² for simple linear scale up and process flexibility. With pH 4–8 all Sartobran[®] P filter elements cover most of the relevant bio-pharmaceutical applications.

Applications

- Coagulation Factors, Albumin, IgG
- Bacterial & Viral Vaccines
- Bioprocessed Pharmaceuticals
- Diagnostics
- Purified Protein Solutions
- Biological Fluids
- Fluids containing preservatives

Technical Data

Available Sizes	Filtration Area	Max. Diffusion at 1.5 bar 22 psi [ml/min]	Min. Bubble Point [bar psi]
Cartridges MaxiCaps®			
Size 0.5 (Only Cartridges)	0.3 m ² 3.2 ft ²	10	2.0 29
Size 1	0.6 m ² 6.5 ft ²	15	2.0 29
Size 2	1.2 m ² 12.9 ft ²	30	2.0 29
Size 3	1.8 m ² 19.4 ft ²	45	2.0 29
Mini Cartridges MidiCaps®			
Size 7	0.05 m ² 0.54 ft ²	3	2.0 29
Size 8	0.1 m ² 1.1 ft ²	4	2.0 29
Size 9	0.2 m ² 2.2 ft ²	5	2.0 29
Size 0 (Only MidiCaps®)	0.45 m ² 4.8 ft ²	10	2.0 29
Capsules			
Size 5	0.03 m ² 0.32 ft ²	2	2.0 29

Max. Allowable Differential Pressure

Cartridges | Mini Cartridges

5 bar | 72.5 psi at 20°C
2 bar | 29 psi at 80°C

MaxiCaps® | MidiCaps®

5 bar | 72.5 psi at 20°C
3 bar | 43.5 psi at 50°C (only MaxiCaps®)

Capsules

4 bar | 58 psi at 20°C
2 bar | 29 psi at 50°C

Max. Allowable Back Pressure

2 bar | 29 psi at 20°C
(for all elements)

Materials

Prefilter Membrane
Cellulose Acetate

Endfilter Membrane
Cellulose Acetate

Support Fleece
Polypropylene

Core
Polypropylene

End Caps
Polypropylene

Capsule Housing
Polypropylene

O-Ring
Silicone

Filling Bell
Polycarbonate

Pore Size Combination

0.65 µm + 0.45 µm



Regulatory Compliance

- Each individual element is tested for integrity by Bubble Point and Diffusion test
- Fully validated as sterilizing grade filters according to ASTM current F-838 guidelines
- Designed, developed and manufactured in accordance with an ISO 9001 certified Quality Management System
- Meet or exceed the requirements for WFI quality standards set by the current USP
- Non pyrogenic according to USP Bacterial Endotoxins
- USP Plastic Class VI Test
- Non fiber releasing according to 21 CFR

Sterilization

Cartridges | Mini Cartridges

In-Line Steam Sterilization

134 °C, 0.3 bar, 20 min.

Min. 25 Sterilization Cycles

or

Autoclaving

134°C, 2 bar, 30 min

Min. 25 Sterilization Cycles

MaxiCaps® | MidiCaps® | Capsules

Autoclaving

134°C, 2 bar, 30 min

Min. 25 Sterilization Cycles (MaxiCaps® | MidiCaps®)

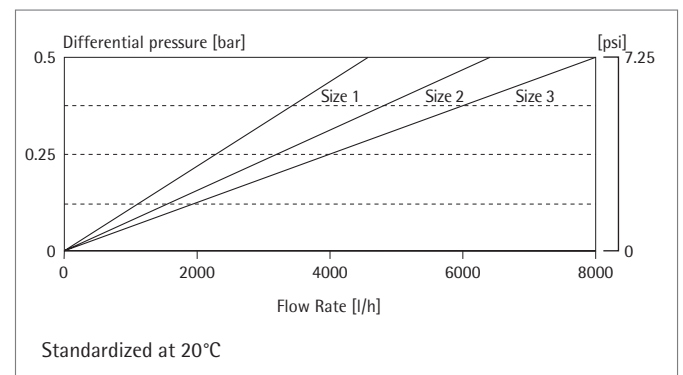
Min. 3 Sterilization Cycles (Capsules)

Technical References

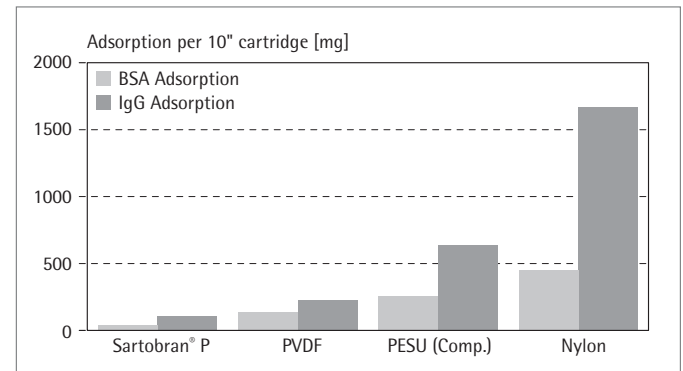
Validation Guide	SPK5726-e
Extractables Guide	SPK5720-e

Performance

Water Flow Rates for MaxiCaps®



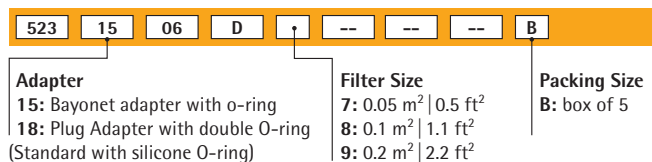
Protein Binding



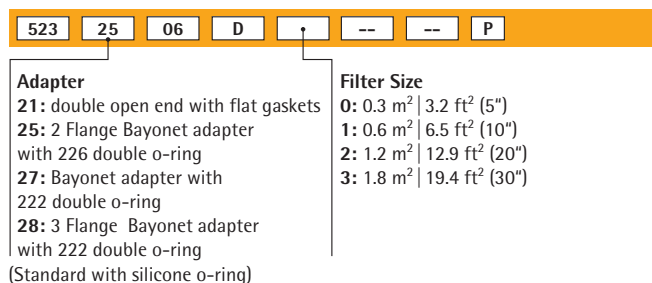
Ordering Information



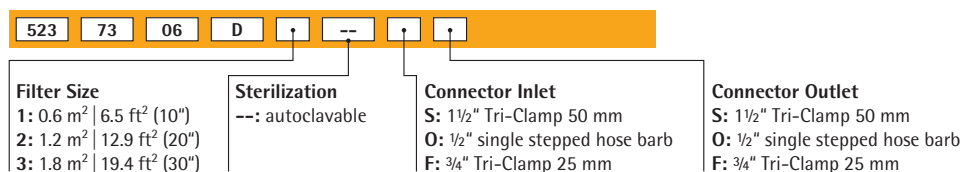
Mini Cartridge



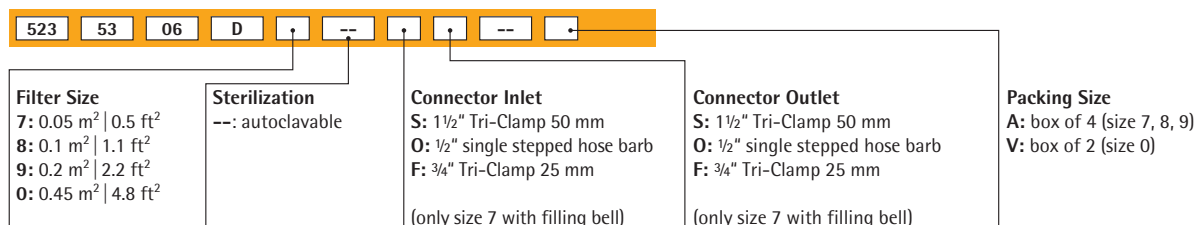
Cartridge



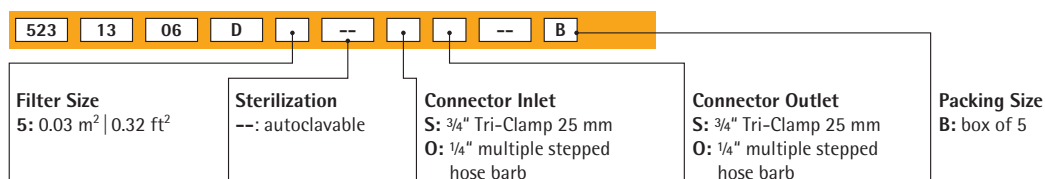
MaxiCaps®



MidiCaps®



Capsules



Check the availability of your desired configuration with your Sartorius sales representative or online at:



www.sartorius-stedim.com

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