



Sartopure® GF Plus MidiCaps® and MaxiCaps®

The New Generation of Adsorptive Depth Filters

Prefilter MidiCaps® & MaxiCaps®



Description

Sartopure® GF Plus MidiCaps® and MaxiCaps® are self-contained, ready to use filter units for removal of contaminants like colloids, lipids, protein aggregates (Host Cell Protein) and particles from bio-pharmaceutical fluids. They are used for protection of membrane filters, chromatography- and ultrafiltration systems in pharmaceutical and biotech production processes.

Applications

Sartopure® GF Plus MidiCaps® & MaxiCaps® are the ideal choice for prefiltration and clarification of:

- Cell Culture fluids after cell harvest
- Fermentation broths
- Serum free or serum containing cell culture media
- Serum
- All media containing lipids, colloids and protein aggregates as contaminants.

Effective Clarification

Sartopure® GF Plus MidiCaps® & MaxiCaps® feature highly charged glass fiber layers for effective clarification of fluid streams based on the combination of adsorptive and mechanical retention.

Economic Prefiltration

The 3-dimensional filter matrix of Sartopure® GF Plus adsorptive depth filters assures outstanding total throughput performance thus ensuring most economic design of your prefiltration scheme.

Reliable Operation

The high and defined particle retention capability of Sartopure® GF Plus allows reliable operation and reproducible results from batch to batch even under varying process conditions.

Cost Saving

The efficient protection of downstream membrane filters and purification equipment saves filter costs and helps to increase the yield of biotech production processes.

Flexibility

Sartopure® GF Plus MidiCaps® and MaxiCaps® are available with various filtration areas from 400 cm² | 0.4 ft² up to 1.2 m² | 12.9 ft² for easy adoption to any filtration process independent from the batch size.

Scalability

Consistent and predictable scale-up and down trials can reliably be performed as all Sartopure® GF Plus MidiCaps® and MaxiCaps® are produced with the same type of membrane and identical materials of construction.

Cost Saving

The use of the disposable capsule design concept avoids investments into stainless steel filter housings and eliminates additional costs for cleaning of housings and cleaning validation.

Documentation

Sartopure® GF Plus MidiCaps® & MaxiCaps® are designed, developed and manufactured in accordance with a ISO 9001 certified Quality Management System. A Validation Guide is available for compliance with regulatory requirements.

Specifications

Materials

Filter Material:	Glass fiber fleeces
Support fleece:	Polypropylene
Core:	Polypropylene
End caps:	Polypropylene
Capsule Housing:	Polypropylene
O-Rings:	Silicone
Filling Bell:	Polycarbonate

Retention Rates

0.65 µm
1.2 µm

Available Sizes | Filtration Area (nominal)

MidiCaps®

Size 7	0.04 m ² 0.4 ft ²
Size 8	0.08 m ² 0.9 ft ²
Size 9	0.12 m ² 1.3 ft ²
Size 0	0.25 m ² 2.7 ft ²

MaxiCaps®

Size 1	10"	0.4 m ² 4.3 ft ²
Size 2	20"	0.8 m ² 8.6 ft ²
Size 3	30"	1.2 m ² 12.9 ft ²

Available Connectors MidiCaps®

SS, SO, OO, FF, FO, HH (only size 7)

Available Connectors MaxiCaps®

SS, OO

S:	1½" Tri-Clamp (Sanitary)
O:	½" Single stepped hose barb
F:	¾" Tri-Clamp (Sanitary)
H:	¼" Multiple stepped hose barb (with filling bell at the outlet)
B:	¾" - 1" Multiple stepped hose barb

Operating Parameters

Max. Allowable Differential Pressure:	5 bar 72.5 psi at 20°C (MidiCaps®) 2 bar 29 psi at 80°C (MidiCaps®) 4 bar 58 psi at 20°C (MaxiCaps®) 3 bar 43.5 psi at 20°C (MaxiCaps®)
Max. Allowable Back Pressure:	2 bar 29 psi at 20°C

Specifications

Extractables

Sartopure® GF Plus MidiCaps® & MaxiCaps® meet, or exceed the requirements for WFI quality standards set by the current USP.

Regulatory Compliance

Non pyrogenic according to USP Bacterial Endotoxins

Pass USP Plastic Class VI Test

Non fiber releasing according to 21 CFR

Sterilization

Autoclaving: 134°C, 2 bar, 30 min

No In-Line Steam Sterilization

Sterilization Cycles

Autoclaving: Min. 25

Technical References

Validation Guide SPK5762-e

Order Information

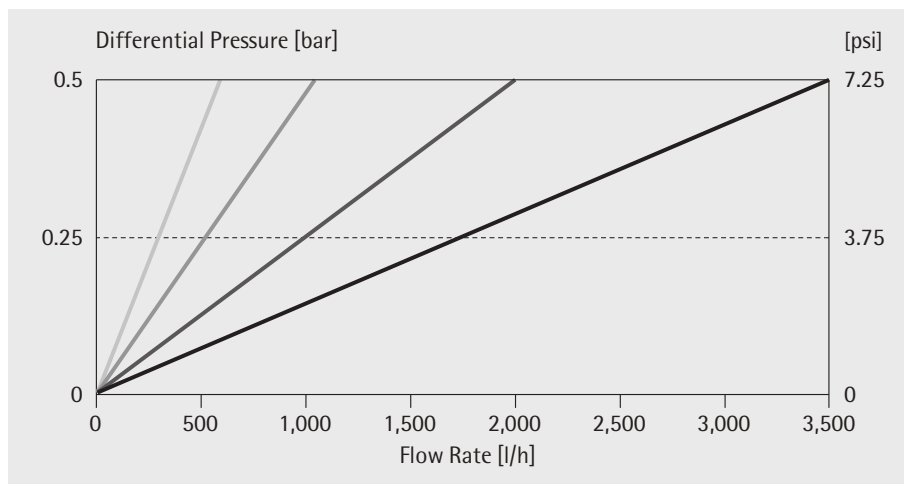
Order Code	Retentation Rate [μm]	Pack Size [pieces]
MidiCaps®		
5555305P7--**--A	0.65	4
5555305P8--**--A	0.65	4
5555305P9--**--A	0.65	4
5555305P0--**--V	0.65	2
5555303P7--**--A	1.2	4
5555303P8--**--A	1.2	4
5555303P9--**--A	1.2	4
5555303P0--**--V	1.2	2

MaxiCaps®

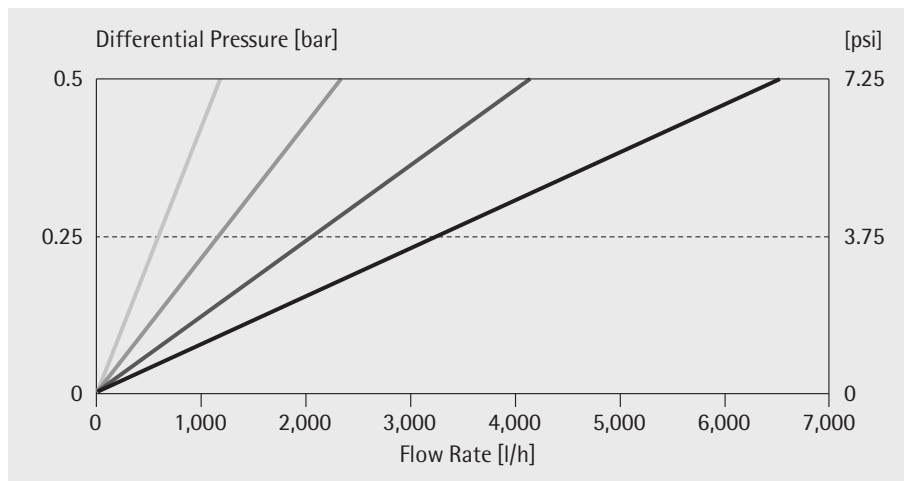
5551305P1--**	0.65	1
5551305P2--**	0.65	1
5551305P3--**	0.65	1
5551303P1--**	1.2	1
5551303P2--**	1.2	1
5551303P3--**	1.2	1

** : Connector Style

Water Flow Rates for MidiCaps® with SS inlet and outlet 0.65 μm



Water Flow Rates for MidiCaps® with SS inlet and outlet 1.2 μm



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