



Sartofluor® GA

Air Filter Cartridges and Mini Cartridges for Bio-Pharmaceutical Applications



Specifications

Materials

Membrane:	PTFE
Support Fleece:	Polypropylene
Core:	Polypropylene
End Caps:	Polypropylene
O-Rings:	Silicone (EPDM or Viton optional)

Pore Size

0.45 µm (only Mini Cartridges)
0.2 µm
0.1 µm

Available Sizes | Filtration Area

Cartridges:

Size 0	5"	0.375 m ² 4.05 ft ²
Size 1	10"	0.75 m ² 8.1 ft ²
Size 2	20"	1.5 m ² 16.1 ft ²
Size 3	30"	2.25 m ² 24.2 ft ²

Mini Cartridges:

Size 7	0.05 m ² 0.54 ft ²
Size 8	0.1 m ² 1.1 ft ²
Size 9	0.2 m ² 2.2 ft ²

Junior:

Size 7	0.05 m ² 0.54 ft ²
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Available Adapters Cartridges

25 (other adapters on request)

Available Adapters Mini Cartridges

15 (other adapters on request)

Available Adapter Junior

14

Operating Parameters

Max. Allowable Differential Pressure:	5 bar 72.5 psi at 20 °C 0.5 bar 7 psi at 140 °C
Max. Allowable Back Pressure:	3 bar 43.5 psi at 20 °C

Description

Sartofluor® GA filter cartridges, manufactured with permanently hydrophobic PTFE membranes, are specially designed for sterile venting and gas applications where adherence to cGMP's is a must. Due to their permanent hydrophobicity, Sartofluor® GA cartridges offer the highest process security, even with high volume gas streams, extreme humidity and stringent in-line steam sterilizations.

Applications

Sartofluor® GA cartridges are ideally suited for application requiring a sterile, hydrophobic gas filter such as:

- Fermenter and bioreactor inlet gases
- Fermenter and bioreactor vents
- Autoclave vents
- Lyophilizer vents
- Purified water system storage tank vents
- In process storage tank vents
- Filling equipment process air

Performance

PTFE is the most hydrophobic of all membranes used in sterile filtration of gases. The inherent hydrophobicity of the PTFE membrane remains unaffected by repeated autoclaving or steaming. The sterile filtration of dry or moist gases is guaranteed. The unique single layer design is optimized for high flow rates at low differential pressures with short blow down times.

Stability

Sartofluor® GA can withstand high differential pressures in either the forward or reverse direction of flow. The mechanical stability and membrane structure are not affected by pulsation or high flow rates.

Water Intrusion Test (WIT) | Water Flow Test (WFT)

A Sartorius Stedim Biotech development, the WFT offers the first and only correlated in-situ integrity testing system for hydrophobic vent filters. WFT not only eliminates downstream intervention and preflushing, more importantly, it does not require a single drop of alcohol.

Quality Control

Each individual element is tested for integrity prior to released assuring absolute reliability.

Documentation

Sartofluor® GA cartridges are designed, developed and manufactured in accordance with an ISO 9001 certified Quality Management System. A Validation Guide is available for compliance with regulatory requirements.

По вопросам продаж и поддержки обращайтесь:

Астана+7(7172)727-132, Волгоград(844)278-03-48, Воронеж(473)204-51-73, Екатеринбург(343)384-55-89,
Казань(843)206-01-48, Краснодар(861)203-40-90, Красноярск(391)204-63-61, Москва(495)268-04-70,
Нижний Новгород(831)429-08-12, Новосибирск(383)227-86-73, Ростов-на-Дону(863)308-18-15, Самара(846)206-03-16,
Санкт-Петербург(812)309-46-40, Саратов(845)249-38-78, Уфа(347)229-48-12

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Specifications

Extractables

Sartofluor® GA filter cartridges meet, or exceed the requirements for WFI quality standards set by the current USP.

Regulatory Compliance

100% Individually integrity tested

Integrity test correlated to HIMA/ASTM F 838-83 Bacteria Challenge Test.

Non-pyrogenic according to USP Bacterial Endotoxins

Meets USP Plastics Class VI biological reactivity test, in vivo

Non-fiber releasing according to 21 CFR

Sterilization

In-Line Steam Sterilization

134 °C, 20 min. at max differential pressure of 0.5 bar | 7 psi

Autoclaving

134 °C, 2 bar | 29 psi, 30 min

Sterilization Cycles

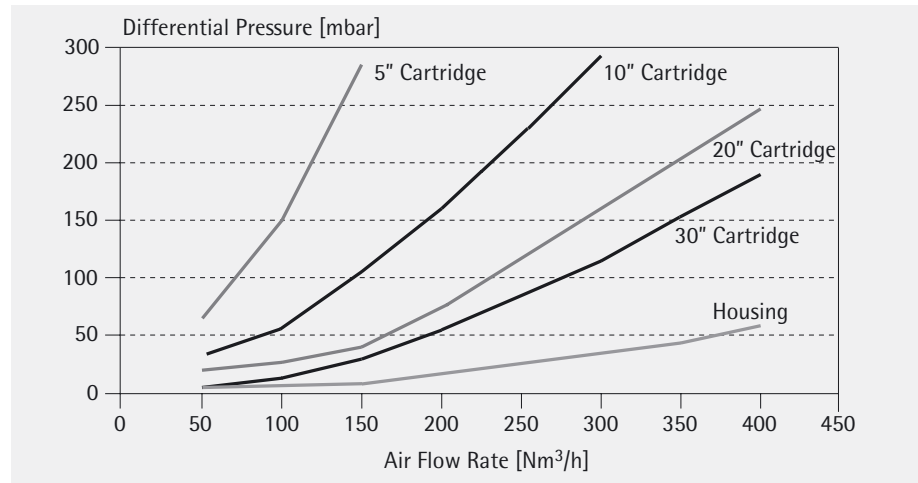
In-Line Sterilization: min 150 (in direction and in reverse direction of filtration)

Technical References

Validation Guide:

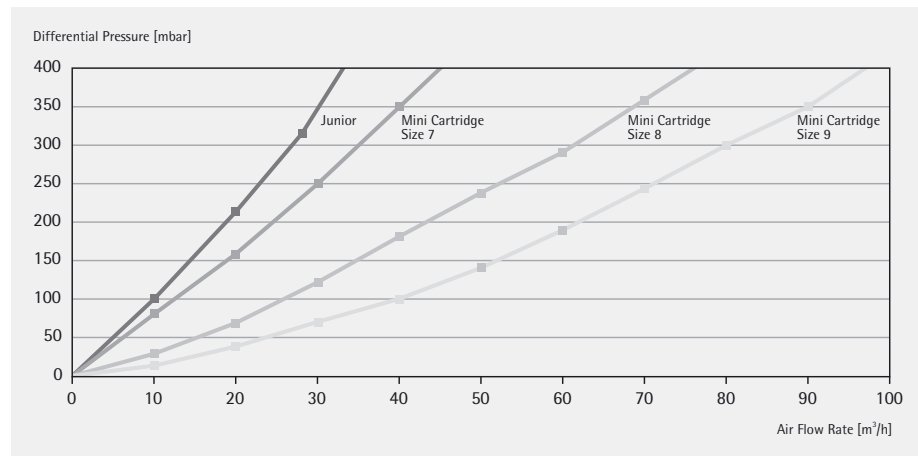
SPK 5711-e

Air Flow Chart Sartofluor® GA 0.2 µm



Under atmospheric pressure conditions

Air Flow Chart Sartofluor® GA Mini Cartridges | Junior 0.2 µm



Under atmospheric pressure conditions

Ordering Information

Order Code	Pore Size [µm]	Pack Size [pieces]	Test Pressure [bar psi]	Max. Diffusion [ml min]	Min. Bubble Point [bar psi]
Cartridges:					
5182558T1----GA	0.1	1	0.9 13	11	1.5 22
5182558T2----GA	0.1	1	0.9 13	22	1.5 22
5182558T3----GA	0.1	1	0.9 13	33	1.5 22
5182507T0----GA	0.2	1	0.7 10	6	1.0 14.5
5182507T1----GA	0.2	1	0.7 10	11	1.0 14.5
5182507T2----GA	0.2	1	0.7 10	22	1.0 14.5
5182507T3----GA	0.2	1	0.7 10	33	1.0 14.5
Mini Cartridges:					
5181558T7-----B	0.1	5	-	-	1.5 22
5181558T8-----B	0.1	5	-	-	1.5 22
5181558T9-----B	0.1	5	0.9 13.1	5	1.5 22
5181507T7-----B	0.2	5	0.7 10.2	2	1.0 14.5
5181507T8-----B	0.2	5	0.7 10.2	3	1.0 14.5
5181507T9-----B	0.2	5	0.7 10.2	4	1.0 14.5
5181506T7-----B	0.45	5	0.4 5.8	1	0.6 8.7
5181506T8-----B	0.45	5	0.4 5.8	2	0.6 8.7
5181506T9-----B	0.45	5	0.4 5.8	3	0.6 8.7
Junior:					
5181407T7-----B	0.2	5	0.7 10	2	1.0 14.5

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