



# Sartofluor® LG MaxiCaps® & Cartridges

Membrane Filtration of aggressive media



## Description

The hydrophobic ePTFE membrane material is widely used for air | gas filters. PTFE is chemically extremely resistant and is a powerful membrane material also for solvent filtration.

It is known that the requirements on membrane construction are somewhat different for air and liquid filtration. Therefore, the design of Sartofluor® LG (LG = liquid & gases) cartridges and MaxiCaps® was specially adapted to the needs of liquid filtration. This consequently resulted in a modified construction with a different pleating structure by which the effective filtration area is reduced compared to Sartofluor® GA (GA = gases & air). However, the modified construction is beneficial with regard to hydrodynamic flow and thus Sartofluor® LG filters are especially recommended for solvent filtration but can also be used as an air | gas filter.

## Applications

Sartofluor® LG filters are available in cartridge and MaxiCaps® format. Sartofluor LG MaxiCaps® improve the process security of sterile filtration of aggressive media (acids and bases) and solvents. There is no need to open the filter housing after filtration. The capsule design allows filtration of such media without any handling of the contaminated filter cartridge post use.

## Chemical Resistance

Sartofluor® LG filters show a high mechanical and chemical robustness. A compatibility list for standard solvents is part of the Validation Guide. The compatibility for other substances can be proven in specific validation studies.

## Design

The high quality of the used PTFE membrane allows the construction as a single-layer design with compromising safety. The mechanical robustness of the membrane does not require a double-layer construction and therefore maximizes the flow rate and avoids potential problems during sterilization.

## Documentation

Sartofluor® LG Cartridges and MaxiCaps® are designed, developed and manufactured in accordance with an ISO 90001 certified Quality Management System. A Validation Guide is available for compliance with regulatory requirements.

## Cost

Sartofluor® LG MaxiCaps® remove the need for investment in stainless steel or PVDF filter housings and an inventory of spare parts such as valves and O-rings.

## Specifications

### Materials

|                  |   |
|------------------|---|
| Filter Membrane: | PTFE (single layer)   |
| Support Fleece:  | Polypropylene   |
| Core:            | Polypropylene   |
| End Caps:        | Polypropylene   |
| O-Rings:         | EPDM (MaxiCaps®)<br>(Viton as accessory in the package)<br>Silicon (Cartridges) |

### Pore Size

0.45 µm  
0.2 µm  
0.1 µm (only Cartridges)

### Available Sizes | Filtration Area

|        |     |                    |                      |
|--------|-----|--------------------|----------------------|
| Size 1 | 10" | 0.5 m <sup>2</sup> | 5.4 ft <sup>2</sup>  |
| Size 2 | 20" | 1.0 m <sup>2</sup> | 10.8 ft <sup>2</sup> |
| Size 3 | 30" | 1.5 m <sup>2</sup> | 16.1 ft <sup>2</sup> |

### Available Connectors MaxiCaps®

SS, FF, BB

### Available Adapters Cartridges

25 (other adapters on request)

### Operating Parameters

|                                       |   |
|---------------------------------------|---|
| Max. Allowable Differential Pressure: | 3 bar   43.5 psi<br>at 20°C (MaxiCaps®)<br>5 bar   72.5 psi<br>at 20°C (Cartridges) |
| Max. Allowable Back Pressure:         | 2 bar   29 psi<br>at 20°C (MaxiCaps®)<br>3 bar   43.5 psi<br>at 20°C (Cartridges)   |

## 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

## Specifications

### Extractables

Sartofluor® LG MaxiCaps® and 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 838-05 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

#### Autoclaving

134°C, 2 bar | 29 psi, 30 min

#### In-Line Steam Sterilization

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

No In-Line Steam Sterilization

Note: No In-Line Steam Sterilization for MaxiCaps®

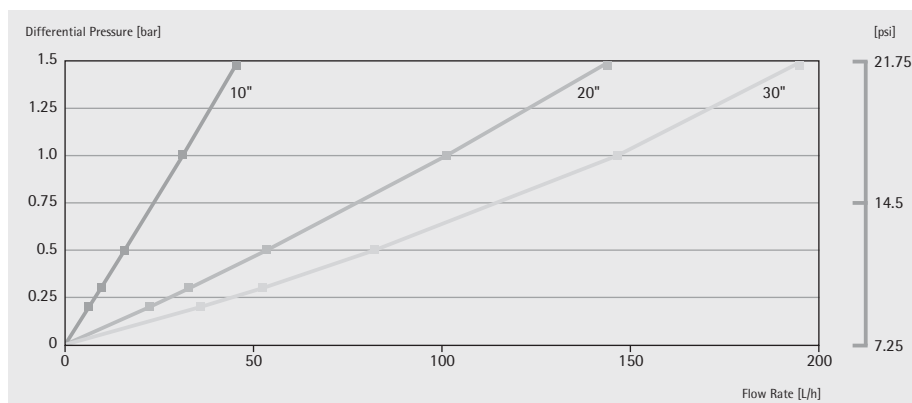
### Sterilization Cycles

Autoclaving: min 25

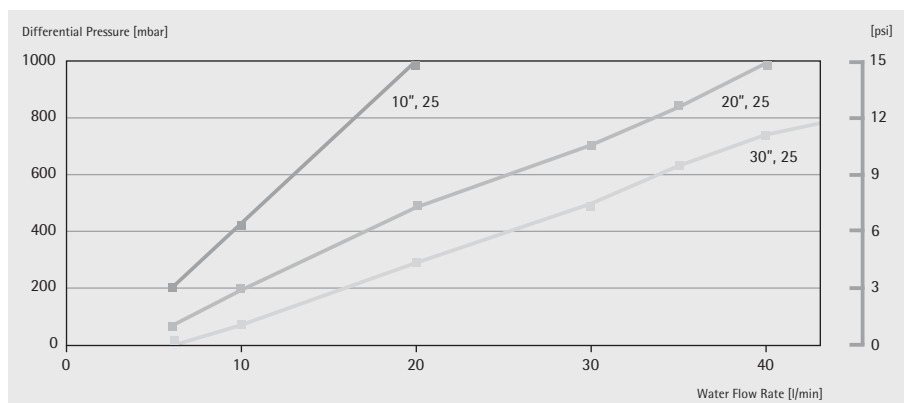
### In-Line Sterilization

min 25 (only Cartridges)

Liquid Flow Rates for Sartofluor® LG MaxiCaps® 0.2 µm



Liquid Flow Rates for Sartofluor® LG Filter Cartridges 0.2 µm



## Ordering Information

| Order Code        | Pore size [µm] | Pack Size [pieces] |
|-------------------|----------------|--------------------|
| <b>MaxiCaps®</b>  |                |                    |
| 5181306T1--**     | 0.45           | 1                  |
| 5181307T1--**     | 0.2            | 1                  |
| 5181307T2--**     | 0.2            | 1                  |
| 5181307T3--**     | 0.2            | 1                  |
| <b>Cartridges</b> |                |                    |
| 518**06T1----LG   | 0.45           | 1                  |
| 518**06T2----LG   | 0.45           | 1                  |
| 518**06T3----LG   | 0.45           | 1                  |
| 518**07T1----LG   | 0.2            | 1                  |
| 518**07T2----LG   | 0.2            | 1                  |
| 518**07T3----LG   | 0.2            | 1                  |
| 518**58T1----LG   | 0.1            | 1                  |
| 518**58T2----LG   | 0.1            | 1                  |
| 518**58T3----LG   | 0.1            | 1                  |

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