



Applications

- Aggressive chemicals
- Strong acids/ bases
- Solvents
- Pharmaceutical intermediates
- Ventilation of tanks
- Hot VE-water
- Photoresist
- Air and gas

To fulfill the highest purity requirements of the chemical, pharma and electronic industry our high quality standards are our first priority.

GR-T membrane filter cartridges are made of a hydrophobe PTFE membrane. End caps, inner core and support layers are made out of polypropylene. The outstanding hydrophobe properties of these PTFE membranes provide a great advantage over polypropylene or PVDF membranes.

High flowrate, high dirt holding capacity as well as a high thermal and mechanical resistance offer a wide area of application.

Main features:

- Production in clean room (according to ISO Class7)
- Prerinsed with 18 MΩ DI-water
- Biologica safety according to USP Class VI
- FDA authorized materials, fulfill the essential CFR criteria
- Every filterelement is marked with LOT-number, serial number and micron rating.
- Safe retention of bacteria (LRV ≥ 108 *Brevundimonas diminuta* per 10" filter element at air).

Performance specifications

Steam sterilization

Cartridges may be steam sterilized for at least 100 cycles of 30 minutes at 135°C.

Bacteria retention

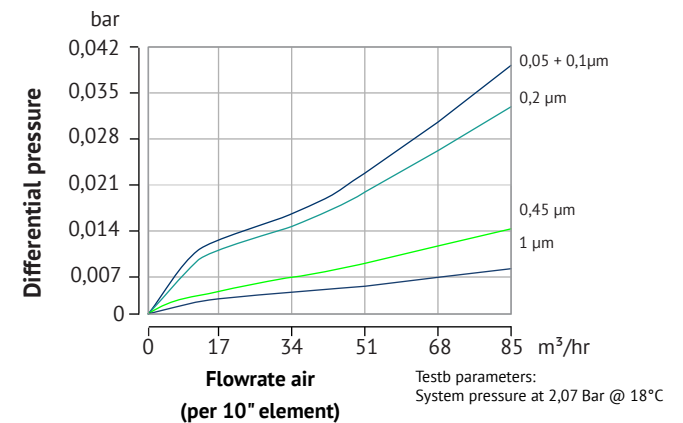
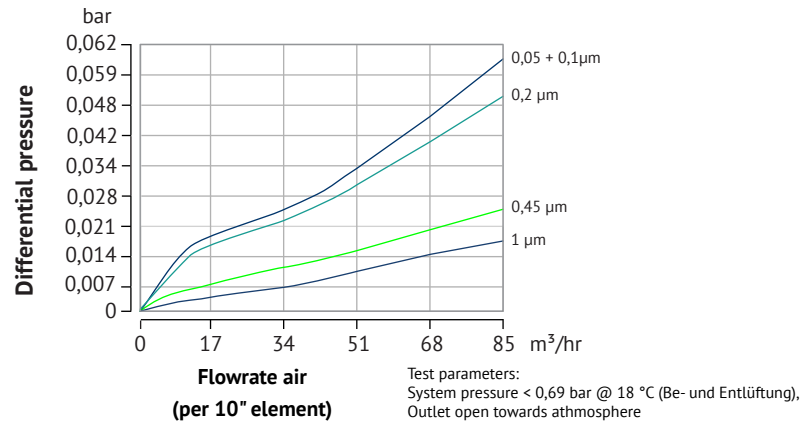
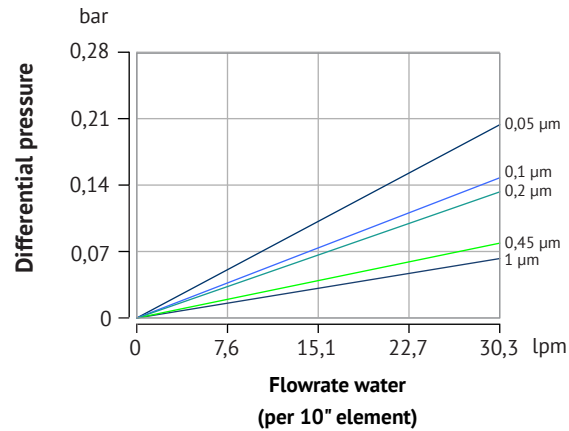
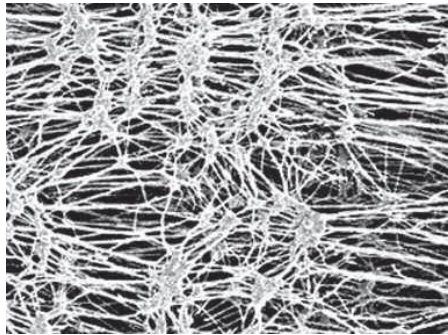
Pore size	<i>Brevundimonas diminuta</i>	<i>Serratia marcescens</i>	<i>Stapholoccus aureus</i>	<i>Stapholoccus aureus</i>
0,2 µm	≥ 8,2			
0,45 µm		≥ 8,3	≥ 6,9	
1,0 µm				≥ 6,4

Technical data

Material:	PTFE membrane
Inner core, end caps:	Polypropylene
Support layers:	Polypropylene Vlies
Gaskets/ O-Rings:	Perbunan, EPDM, Silikon, Viton, Viton (teflon encapsuled)
Micron ratings:	0,05 µm, 0,1 µm, 0,2 µm, 0,45 µm und 1,0 µm
Lengths:	5", 9 ¾" (DOE), 10", 20", 30", 40"
Inside diameter:	25,4 mm
Outside diameter:	69 mm
Surface area:	0,79 m ² (per 10"-filter element)
Operating temperature:	Max. 95°C
Differential pressure:	<u>forward:</u> Max. 4,14 bar @ 21°C Max. 2,8 bar @ 71°C <u>reverse:</u> Max. 2,8 bar @ 21°C
Change-out pressure:	At the latest at 2,4 bar differential pressure

Integrity testing data

Micron rating	Air diffusion per 10" filterelement (Moistended with isopropanol/ water in relation 60/40)
0,05 µm	≤ 50 cm ³ /min @ 1,5 bar
0,1 µm	≤ 50 cm ³ /min @ 1,2 bar
0,2 µm	≤ 20 cm ³ /min @ 0,8 bar
0,45 µm	≤ 15 cm ³ /min @ 0,34 bar
1,0 µm	≤ 15 cm ³ /min @ 0,2 bar



Order information

GR34-T- [] - [] - [] - [] - []

Adapter	Length	Micron rating	Gasket	Options
1 DOE	05 5"	0005 0,05 µm	0 Perbunan	W moistened
2 226/ flat	93 9 ¾" ¹	001 0,1 µm	1 EPDM	
3 222/ flat	10 10"	002 0,2 µm	2 Silikon	
6 Ametek-Adapter (O-Ringe inside)	20 20"	004 0,45 µm	4 Viton	
7 226/ Fin	30 30"	010 1,0 µm	Viton, teflon ummantelt ²	
8 222/ Fin	40 40"			

Order example: GR34-T-320-0005-1

¹ only for DOE; ² Teflon for DOE