



## STA-Filtercartridges

The STA-filtercartridges are produced with the meltblown procedure and made completely of polypropylene. Very thin fibres are thermal bound in a special process.

An asymmetrical filter structure (getting finer from the outside to the inside) provides a high dirt holding capacity in combination with a high flow rate. The separation efficiency is 99,9 % (Beta = 1000). The integrated support core provides a higher differential pressure and temperature resistance.

### Features:

- Every filtercartridge is delivered with a Lot-number and a declaration of conformity
- Biological Safety in accordance with USP Class VI
- Free of surfactants, binders and adhesives
- FDA-approved, suitable for food and beverages

### Applications:

- Fine filter for: solvents, chemicals, oils, coatings, paints
- Pharmaceutical products
- Beverages
- Cosmetics
- Ultrapure water for the electronics industry
- Microelectronics
- CMP Slurry

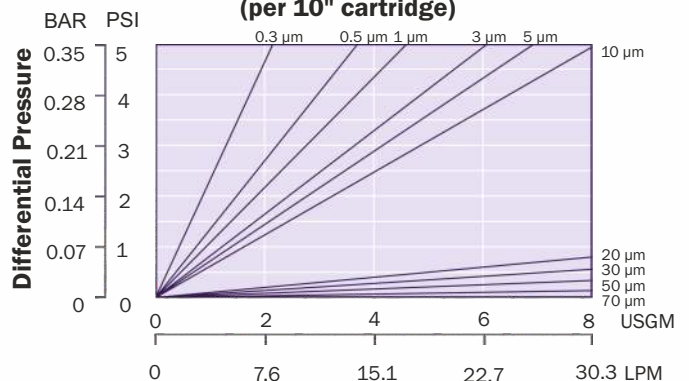
### General Technical Data

Material Filter Medium:	Polypropylene
Material End Caps:	Polypropylene
Gaskets / O-Rings:	Buna, EPDM, Silikon, Viton, Teflon Encapsulated Viton
Micron Rating:	0.3, 0.5, 1, 3, 5, 10, 20, 30, 50, 70 µm
Length (in Inch):	5", 9.75", 10", 19.5", 20", 29.25", 30", 39", 40"
Inner Diameter:	25,4 mm
Outer Diameter:	63,5 mm
Working Temperature:	Max. 80 °C
Differential Pressure:	Max. 10.3 Bar @ 20 °C Max. 6.2 Bar @ 66 °C Max. 2.4 Bar @ 80 °C
Change out differential pressure:	At the latest at 2.4 bar
Steam Sterilization:	Autoclaved for 30 min at 121 °C; only for Adapter C2, C3, C7 and C8, only dismantled condition.

### Diagram

flow rate of a 10" filtercartridge in dependence of the differential pressure

#### Typical Flow Rate Clean Water at Ambient Temperature (per 10" cartridge)



## Micron Rating depending on the Removal Efficiency

Micron Rating	Beta Ratio	Removal Efficiency 99,9% β= 1000	Removal Efficiency 99% β= 100	Removal Efficiency 90% β= 10
0.3 μm		0.5 μm	0.4 μm	0.3 μm
0.5 μm		0.6 μm	0.5 μm	0.4 μm
1 μm		1,0 μm	0.8 μm	0.5 μm
3 μm		3.0 μm	2.3 μm	1.4 μm
5 μm		5.0 μm	4.0 μm	2.7 μm
10 μm		10.0 μm	7.0 μm	4.0 μm
20 μm		20.0 μm	15.0 μm	12.0 μm
30 μm		30.0 μm	20.0 μm	14.0 μm
50 μm		50.0 μm	34.0 μm	25.0 μm
70 μm		70.0 μm	50.0 μm	39.0 μm

### Order information:

STA

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Micron Rating	
0.3	0.3 μm
0.5	0.5 μm
<b>1</b>	<b>1 μm</b>
3	3 μm
5	5 μm
10	10 μm
20	20 μm
30	30 μm
50	50 μm
70	70 μm

Length	
5	5"
93	9 3/4"
10	10"
19	19 1/2"
<b>20</b>	<b>20"</b>
29	29 1/4"
30	30"
39	39"
40	40"

Adapter	
N	None
P	DOE
<b>P3</b>	<b>222</b>
P8	222/Fin
P7	226/Fin
P2	226
AM	o-ring inboard (Ametek)

Gasket	
N	None
B	NBR
S	Silikon
E	EPDM
<b>V</b>	<b>Viton</b>

Order Example:

STA **1-20P3V**