



## 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

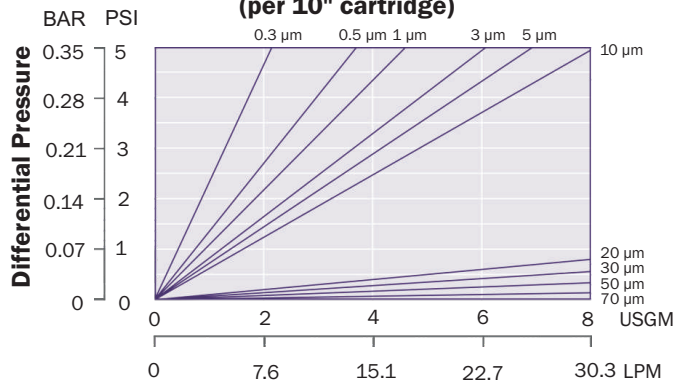
### General Technical Data

|                                   |  |
|-----------------------------------|--|
| 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<br>Max. 6.2 Bar @ 66 °C<br>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;<br>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%<br>$\beta= 1000$ | Removal Efficiency 99%<br>$\beta= 100$ | Removal Efficiency 90%<br>$\beta= 10$ |
|-------------------|------------|---|--|---------------------------------------|
| 0.3 $\mu\text{m}$ |            | 0.5 $\mu\text{m}$                         | 0.4 $\mu\text{m}$                      | 0.3 $\mu\text{m}$                     |
| 0.5 $\mu\text{m}$ |            | 0.6 $\mu\text{m}$                         | 0.5 $\mu\text{m}$                      | 0.4 $\mu\text{m}$                     |
| 1 $\mu\text{m}$   |            | 1,0 $\mu\text{m}$                         | 0.8 $\mu\text{m}$                      | 0.5 $\mu\text{m}$                     |
| 3 $\mu\text{m}$   |            | 3.0 $\mu\text{m}$                         | 2.3 $\mu\text{m}$                      | 1.4 $\mu\text{m}$                     |
| 5 $\mu\text{m}$   |            | 5.0 $\mu\text{m}$                         | 4.0 $\mu\text{m}$                      | 2.7 $\mu\text{m}$                     |
| 10 $\mu\text{m}$  |            | 10.0 $\mu\text{m}$                        | 7.0 $\mu\text{m}$                      | 4.0 $\mu\text{m}$                     |
| 20 $\mu\text{m}$  |            | 20.0 $\mu\text{m}$                        | 15.0 $\mu\text{m}$                     | 12.0 $\mu\text{m}$                    |
| 30 $\mu\text{m}$  |            | 30.0 $\mu\text{m}$                        | 20.0 $\mu\text{m}$                     | 14.0 $\mu\text{m}$                    |
| 50 $\mu\text{m}$  |            | 50.0 $\mu\text{m}$                        | 34.0 $\mu\text{m}$                     | 25.0 $\mu\text{m}$                    |
| 70 $\mu\text{m}$  |            | 70.0 $\mu\text{m}$                        | 50.0 $\mu\text{m}$                     | 39.0 $\mu\text{m}$                    |

### Order information:

STA

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| Micron Rating |                                   |
|---------------|-----------------------------------|
| 0.3           | 0.3 $\mu\text{m}$                 |
| 0.5           | 0.5 $\mu\text{m}$                 |
| <b>1</b>      | <b>1 <math>\mu\text{m}</math></b> |
| 3             | 3 $\mu\text{m}$                   |
| 5             | 5 $\mu\text{m}$                   |
| 10            | 10 $\mu\text{m}$                  |
| 20            | 20 $\mu\text{m}$                  |
| 30            | 30 $\mu\text{m}$                  |
| 50            | 50 $\mu\text{m}$                  |
| 70            | 70 $\mu\text{m}$                  |

| 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**