

## STERYFLUS MINI

- Testable in situ
- Repeatedly steamable in situ or in autoclave
- Sanitizable
- Thermowelded construction
- Materials for Food contact as per regulations (EC) and (EU)
- FDA-listed materials per 21 CFR
- Bio-Safety per USP-Plastics
- Validation Guide available on request



STERYFLUS mini cartridges are an important advance in membrane filter cartridge technology. These mini cartridges are specifically designed for sterile filtration in pharmaceutical and food & beverage applications. The filter membrane is a hydrophilic PES (Polyethersulphone) with liquid absolute filtration rating of 0.2 and 0.45 micron, pleated with upstream and downstream support layers in polyester. All construction materials are chemically and biologically inert according to FDA, USP and EC directives. STERYFLUS are manufactured in Clean Rooms. Extensive testing is conducted to assure filter elements of highest quality. Each mini cartridge is subjected to integrity test before releasing from production. Furthermore, it is possible for customers to re-verify the integrity of STERYFLUS cartridges IN SITU.

### MATERIALS OF CONSTRUCTION

<b>Filter media</b>	PES membrane
<b>Upstream supports</b>	polyester
<b>Downstream supports</b>	polyester
<b>Internal Core</b>	polypropylene
<b>External Cage</b>	polypropylene
<b>End caps</b>	polyester/polypropylene

### FOOD-SAFETY

Materials used for STERYFLUS MINI cartridges are in accordance with D.M. 21/3/73 (S.O. of G.U. n° 104 of 20.04.73) and its subsequent amendments and regulations (EU) 10/2011 and its subsequent amendments and regulations (EC) 1935/2004 and 1895/2005.

### BIO SAFETY

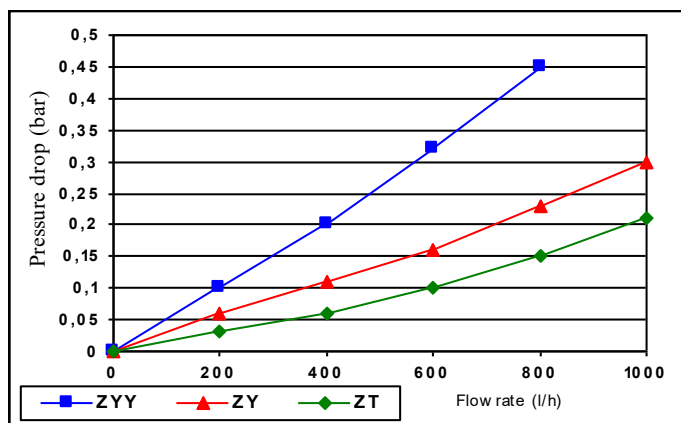
Filter media and components pass USP Biological Reactivity and Chemical-Physical tests for CLASS VI plastics. Cartridges are in accordance with USP "Water for injection" requirements.

### OPERATING CONDITIONS

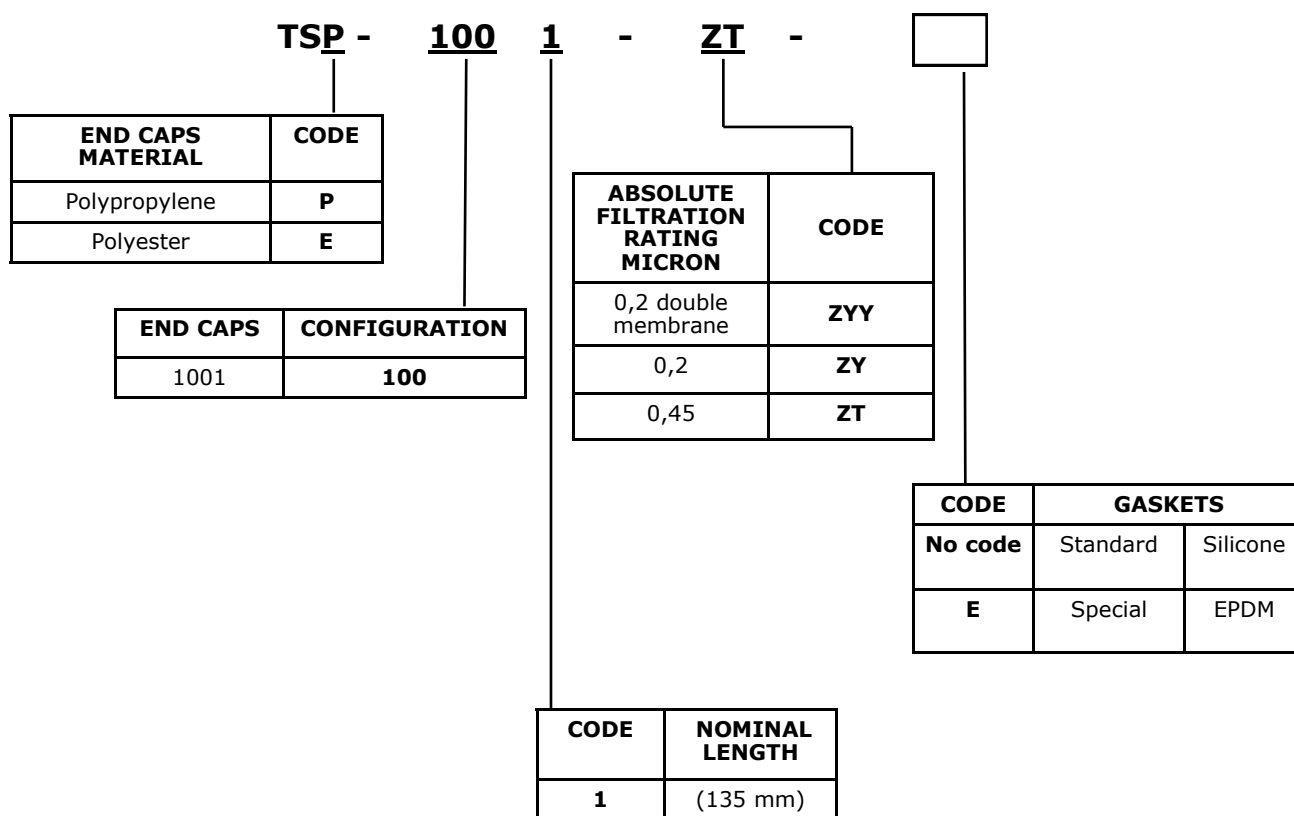
<b>- max. continuous temperature</b>	65 °C
<b>- cumulative time of steam sterilization</b>	20 ore at 125 °C
<b>- sanitization with hot water</b>	80 °C max
<b>- sanitization with chemicals</b>	can be sanitized by standard chemical agents
<b>- max. differential pressure</b>	5,0 bar at 25 °C
<b>- recommended change out differential flow rate</b>	2,0 bar at 25 °C

CODE	ABSOLUTE FILTRATION RATING IN LIQUIDS	BACTERIAL RETENTION >10 <sup>7</sup> CFU/cm <sup>2</sup> *	ACCEPTABLE LIMIT FOR DIFFUSION TEST WITH WATER FOR CARTRIDGE (ml/min)
ZYY	0,2 µm double membrane	Brevundimonas diminuta	≤ 8 @ 2,8 bar
ZY	0,2 µm	Brevundimonas diminuta	≤ 8 @ 2,8 bar
ZT	0,45 µm	Serratia marcescens	≤ 6,5 @ 1,7 bar
* as per ASTM F838			

### WATER FLOW RATE FOR 10" CARTRIDGE



### STERYFLUS MINI ORDERING INFORMATION



The data are informative and subject to change without notice. User is responsible for determining whether the product is fit for particular purpose and suitable for User's method of application.

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