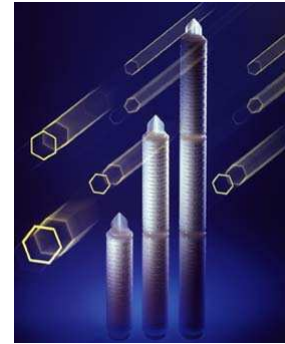


STERYFLUS TSE

- Easy integrity testable in situ
- Repeatedly steamable in situ or in autoclave
- Sanitizable
- Thermowelded construction
- EC-listed materials for Food contact
- FDA-listed materials per CFR21
- Bio-Safety per USP—Plastics



STERYFLUS TSE cartridge is final sterilizing filter for general application in pharmaceutical and food & beverage industries.

Steryflus cartridges have liquid absolute filtration ratings from 0,1 micron to 0,65 micron; 0,1 micron and 0,2 micron are available with single and double membrane layers.

Manufacturing is completed in a controlled environment; each cartridge is integrity tested and the limits of acceptability are monitored on regular basis by bacteria challenge test.

MATERIALS OF CONSTRUCTION

| | |
|----------------------------|-------------------------|
| Filter media | Asymmetric PES membrane |
| Upstream supports | polyester |
| Downstream supports | polyester |
| Internal Core | polypropylene |
| External Cage | polypropylene |
| End caps / Adapters | polyester |

FOOD-SAFETY

STERYFLUS TSE filter elements meet (EU) regulation 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.

QUALITY STANDARDS

Produced under a certified Quality System to guarantee traceability of manufacturing records and integrity testing results.

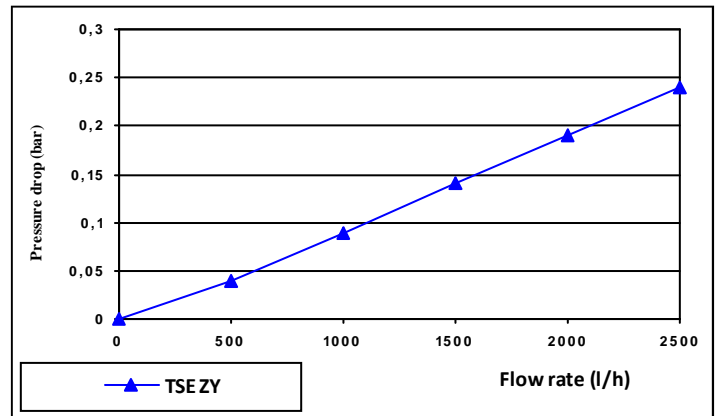
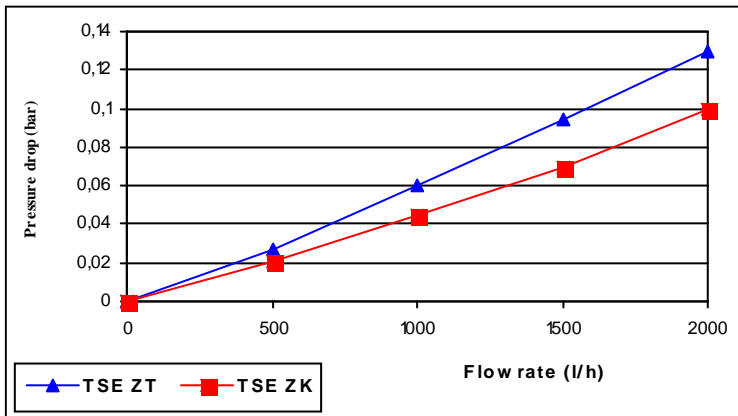
OPERATING CONDITIONS

| | |
|--|--|
| - max. continuous temperature | 65 °C |
| - max. cumulative time of steam sterilization | 13 hours at 125 °C with cycles of 30 minutes |
| - sanitization with hot water | 80 °C max |
| - sanitization with chemicals | can be sanitized by standard chemical agents |
| - max. differential pressure | 5,0 bar at 25 °C - 1,7 bar at 80 °C |
| - recommended change out differential pressure | 2,0 bar at 25 °C |
| - recommended rinse up volume | 3 liters / 10" cartridge |

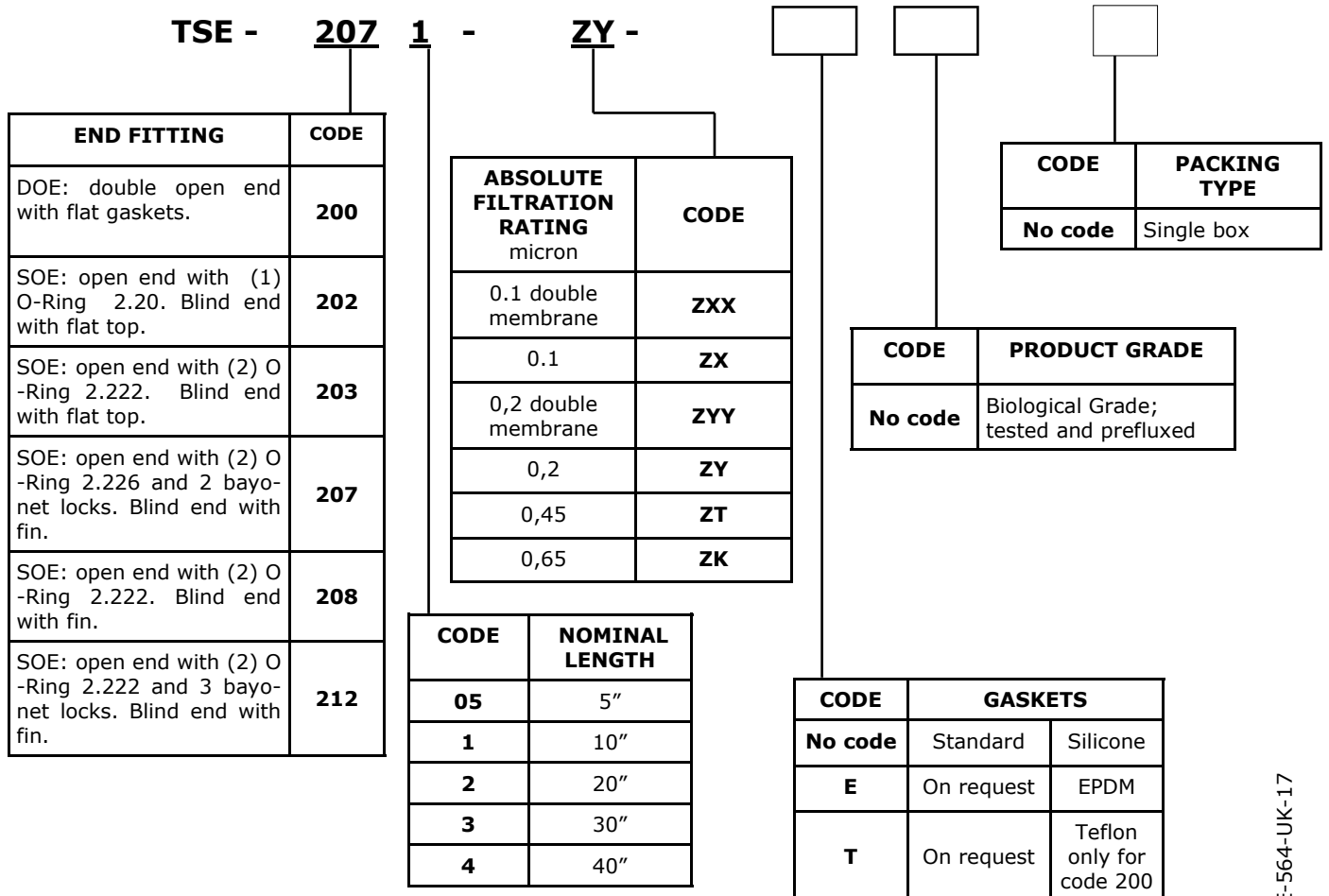
| CODE | ABSOLUTE FILTRATION RATING IN LIQUIDS | BACTERIAL RETENTION >10 ⁷ CFU/cm ² * | ACCEPTABLE LIMIT FOR DIFFUSION TEST WITH WATER FOR 10" CARTRIDGE (ml/min) |
|------|---------------------------------------|--|---|
| ZXX | 0,1 µm double membrane | Acholeplasma laidlawii | ≤ 20 @ 3,5 bar |
| ZX | 0,1 µm | Acholeplasma laidlawii | ≤ 20 @ 3,5 bar |
| ZYY | 0,2 µm double membrane | Brevundimonas diminuta | ≤ 16.5 @ 2,3 bar |
| ZY | 0,2 µm | Brevundimonas diminuta | ≤ 16.5 @ 2,3 bar |
| ZT | 0,45 µm | Serratia marcescens | ≤ 13 @ 1,7 bar |
| ZK | 0,65 µm | N.A | ≤ 20 @ 1,1 bar |

* as per ASTM F838

WATER FLOW RATE FOR 10" CARTRIDGE



STERYFLUS TSE ORDERING INFORMATION



DS-TSE-564-UK-17

Data contained in this bulletin 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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