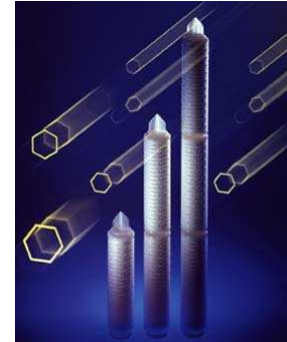


STERYFLUS TSP-PH

- 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
- Validation Guide available on request



STERYFLUS TSP-PH cartridges are final sterilizing filters for general applications in pharmaceutical industries; prefluxed with non-pyrogenic water and with certification of quality reporting the serial number, it is utilized in critical applications.

Steryflus cartridges have liquid absolute filtration ratings from 0,2 micron to 0,45 micron; 0,2 micron is available with single and double membrane.

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	polypropylene

FOOD-SAFETY

STERYFLUS TSP 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. The filter meets USP "Water for injection" requirements for particle release and the effluent is Non-Pyrogenic per USP Bacterial Endotoxins (< 0,25 EU/ml).

QUALITY STANDARDS

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

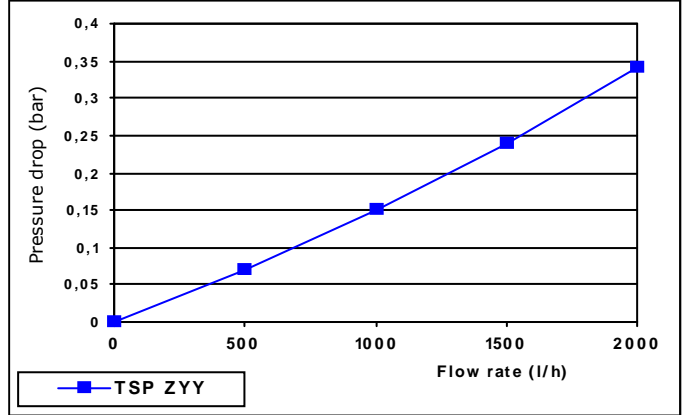
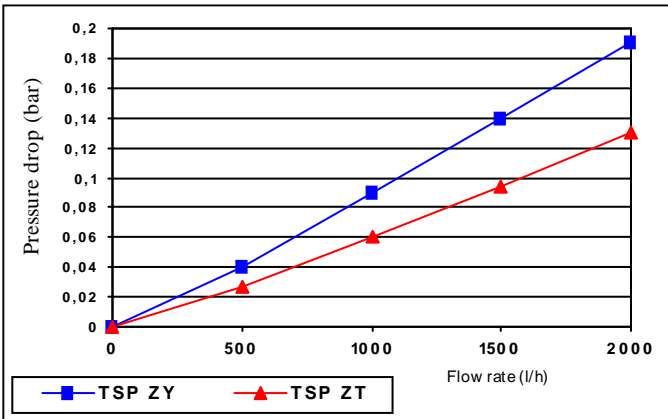
RECOMMENDED OPERATING CONDITIONS

- max. continuous temperature	65 °C
- max. cumulative time of steam sterilization	20 hours at 125 °C or 40 hours at 121 °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)
ZYY	0,2 µm double membrane	Brevundimonas diminuta	≤ 16.5 @ 2,8 bar
ZY	0,2 µm	Brevundimonas diminuta	≤ 16.5 @ 2,8 bar
ZT	0,45 µm	Serratia marcescens	≤ 13 @ 1,7 bar

*as per ASTM F838-05

WATER FLOWRATE FOR 10" CARTRIDGE



STERYFLUS TSP ORDERING INFORMATION

TSP - 207 1 - ZY - [] - PH

END FITTING	CODE
DOE: double open end with flat gaskets.	200
SOE: open end with (1) O-Ring 2.20. Blind end with flat top.	202
SOE: open end with (2) O-Ring 2.222. Blind end with flat top.	203
SOE: open end with (2) O-Ring 2.226 and 2 bayonet locks. Blind end with fin.	207
SOE: open end with (2) O-Ring 2.222. Blind end with fin.	208
SOE: open end with (2) O-Ring 2.222 and 3 bayonet locks. Blind end with fin.	212

ABSOLUTE FILTRATION RATING micron	CODE
0,2 double membrane	ZYY
0,2	ZY
0,45	ZT

CODE	PRODUCT GRADE
PH	Biological Grade; tested and prefluxed with non-pyrogenic water. Quality Certification in the box.
PHH	Biological Grade; tested and prefluxed with non-pyrogenic water. Quality Certification, with serial number, in the box.

CODE	NOMINAL LENGTH
05	5"
1	10"
2	20"
3	30"
4	40"

CODE	GASKETS	
No code	Standard	Silicone

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.



Bea Technologies Spa Via Newton, 4 - 20016 Pero (Milano) ITALY
 Tel +39 02 339271 FAX +39 02 3390713 e-mail: info@bea-italy.com
 web: www.bea-italy.com