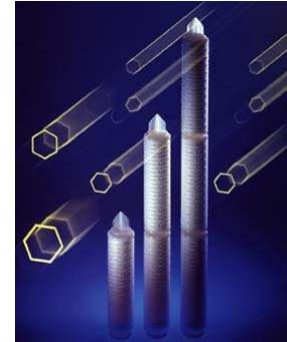


STERYFLUS TSP

- 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 TSP cartridges are final sterilizing filters for general applications in pharmaceutical and food & beverage industries.

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.

QUALITY STANDARDS

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

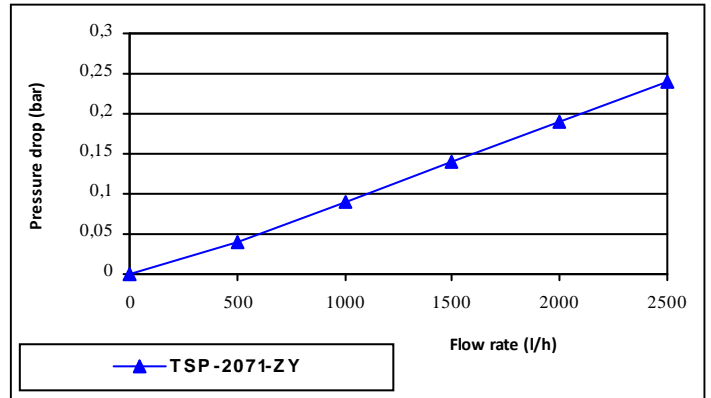
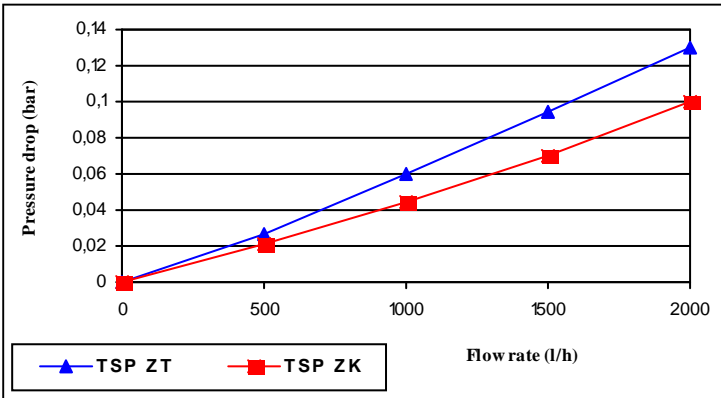
OPERATING CONDITIONS

- max. continuous temperature	65 °C
- max. cumulative time of steam sterilization	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 @ 2,3 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 FLOWRATE FOR 10" CARTRIDGE



STERYFLUS TSP ORDERING INFORMATION

TSP - 207 1 - ZY -

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
0,65	ZK

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

COCE	PACKING TYPE
No code	Single box

CODE	PRODUCT GRADE
No code	Biological Grade; tested and prefluxed

CODE	GASKETS	
No code	Standard	Silicone
E	On request	EPDM
T	On request	Teflon only for code 200

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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