

## STERYKLEAR ADM FREE—KSPA

- Materials free from substances of animal origin (ADM FREE — Animal Derived Materials)
- Food contact materials, according to EU and FDA requirements
- USP materials compliance
- High effective filtration area
- Thermowelded construction
- Integrity testable in situ
- Repeatedly steamable in situ or in autoclave
- Sanitizable
- Validation Guide available upon request



STERYKLEAR ADM FREE-KSPA filter is “Animal Free” as the materials used for its manufacturing are free from animal derived substances.

It is used as final sterilizing filter in food & beverage and pharmaceutical critical applications; PH and PHH grades are preflushed with pyrogen free water and with certification of quality. As it is free from animal derived substances, STERYKLEAR ADM FREE-KSPA is suitable for the newest and ever more increasing market requirements.

The manufacturing process is carried out in a certified clean room; every filter passes the integrity test which is correlated to the microbiological retention.

### MATERIALS OF CONSTRUCTION

<b>Filter media</b>	PES membrane
<b>Support layers</b>	polyester
<b>Internal core</b>	polypropylene
<b>External cage</b>	polypropylene
<b>End caps/Adapters</b>	polypropylene

### FOOD-SAFETY

STERYKLEAR KSPA filter element materials meet (EU) regulation 10/2011 and its amendments, 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.

Specific for “PH” and “PHH” grade: 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). Bacterial endotoxins are determined by LAL test.

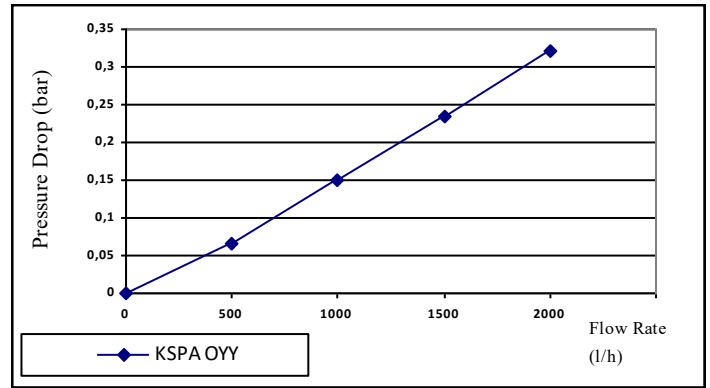
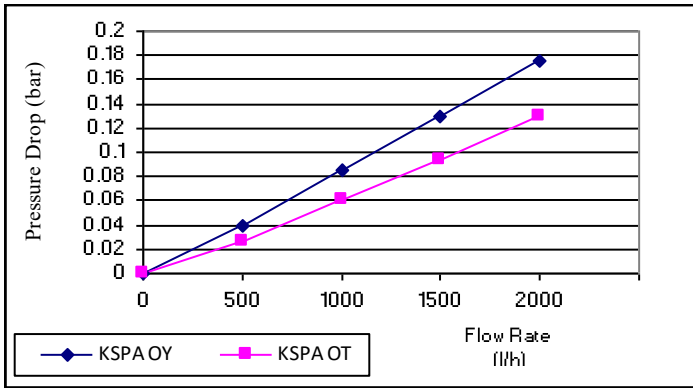
### RECOMMENDED OPERATING CONDITIONS

<b>- max. continuous temperature</b>	80 °C
<b>- max. cumulative time of steam sterilization</b>	20 hours at 125 °C or 40 hours at 121 °C (30 min. cycles)
<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 pressure</b>	2,0 bar at 25 °C

CODE	ABSOLUTE FILTRATION RATING IN LIQUIDS	BACTERIAL RETENTION >10 <sup>10</sup> CFU/ 10" CARTRIDGE *	ACCEPTABLE LIMIT FOR DIFFUSION TEST WITH WATER FOR 10" CARTRIDGE (ml/min)
OY	0,2 µm	Brevundimonas diminuta	≤ 26 @ 2,7 bar
OYY	0,2 µm double membrane	Brevundimonas diminuta	≤ 26 @ 2,7 bar
OT	0,45 µm	Serratia marcescens	≤ 16 @ 1,7 bar

\*as per ASTM F838

## WATER FLOW RATE FOR 10" CARTRIDGE



## STERYKLEAR ADM FREE—KSPA ORDERING INFORMATION

**KSPA - 207 1 - OY - PH - [ ] - [ ]**

ABSOLUTE FILTRATION RATING micron	CODE
0,2	OY
0,2 double membrana	OYY
0,45	OT

CODE	GASKETS	
No code	Standard	Silicone
Z	On request for D.O.E.	Soft Teflon

CODE	PACKING TYPE
No code	Single box

END FITTING	CODE
DOE: double open end with flat gaskets	200
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

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

CODE	PRODUCT GRADE
PH	Biological Grade; tested and preflushed with Pyrogen-free water. Quality Certificate in the box.
PHH	Biological Grade; tested and preflushed with Pyrogen-free water. Quality Certificate, with serial number, in the box.

Recommended rinse up volume in situ: 5 liters/10" cartridge

DS-KSPA-564-UK-19

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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