STERYKLEAR KSP

- Integrity Testable in situ
- High effective filtering area with SE-TECH technology
- Repeatedly steamable in situ and in autoclave
- Sanitizable
- Thermowelded construction
- EC-listed materials for Food contact
- FDA-listed materials per CFR21
- Bio-Safety per USP-Plastics

STERYKLEAR KSP filter elements adopt SE-TECH tecnology which allows to achieve better filtration results from the membranes; the design optimises the flow distribution between the filter media and the internal core to avoid restrictions and to exploit the full area of the cartridge to generate higher throughput and increase service life.
STERYKLEAR KSP are utilized as final sterilizing filters in pharmaceutical and food & beverage general application; PH and PHH grade, prefluxed with non-pyrogenic water and with certification of quality are used in critical applications. Manufacturing is completed in a controlled environment; secure testing during the manufacturing process assures standards of high quality.

MATERIALS OF CONSTRUCTION

Filter media	Asymmetric PES membrane
Supports	polyester
Internal Core	polypropylene
External Cage	polypropylene
End caps / Adapters	polypropylene

FOOD-SAFETY

STERYKLEAR KSP 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).

QUALITY STANDARDS

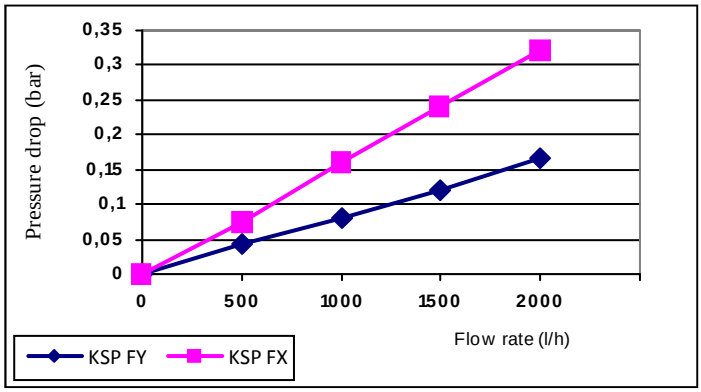
Produced under a certified Quality System to guarantee traceability of manufacturing records and integrity testing results.

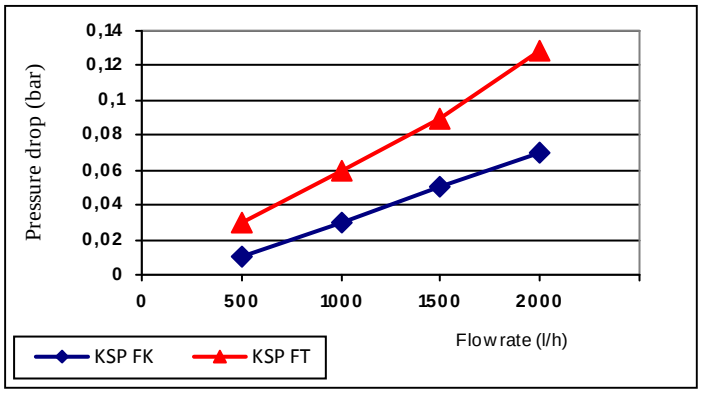
RECOMMENDED OPERATING CONDITIONS

- max. continuous temperature	80 °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
- 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 $>10^{10}$ CFU/ 10" CARTRIDGE *	ACCEPTABLE LIMIT FOR DIFFUSION TEST WITH WATER FOR 10" CARTRIDGE (ml/min)
FX	0,1 µm	Acholeplasma laidlawii	≤ 30 @ 3,5 bar
FY	0,2 µm	Brevundimonas diminuta	≤ 26 @ 2,7 bar
FT	0,45 µm	Serratia marcescens	≤ 16 @ 1,7 bar
FK	0,65 µm	Leuconostoc oenos	≤ 25 @ 1,1 bar
*as per ASTM F838-05			

WATER FLOW RATE FOR 10" CARTRIDGE





STERYKLEAR KSP ORDERING INFORMATION

KS P - 207 1 - FY - BG - SB - ☐

ABSOLUTE FILTRATION RATING micron	CODE
0,1	**FX**
0,2	**FY**
0,45	**FT**
0,65	**FK**

CODE	GASKETS	
No code	Standard	Silicone
E	On request	EPDM
V	On request	VITON

CODE	PACKING TYPE
SB	Single box
MB	Multiple box

END FITTING	CODE
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
BG	Biological Grade; tested and prefluxed.
BQ	Biological Grade; tested and prefluxed.Quality Certification in the box.
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.

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