QUALIKAP QKP-S

PES capsule filters



- Testable in situ
- Sterilizable in autoclave
- Sanitizable
- Thermowelded assembly
- EC-listed materials for food contact
- FDA-listed materials per CFR21
- Extractables as per USP for plastic materials
- Validation Guide available
- Low extractable

QUALIKAP QKP-S capsules are especially designed to be used as sterilizable final filter for small batches in pharma and food applications. QUALIKAP QKP-S are fitted with a pleated membrane filter element, whose polyethersulfone asymmetric porosity guarantees enhanced flow rate and a wide chemical compatibility both for acid and basic solutions.
Typical applications are alcoholic solutions , ultra pure water, vaccine, physiological solutions, ophthalmic liquids and lab batch purification process, etc.
The manufacturing is done in a controlled environment; each filter element is tested to verify the integrity.
Each capsule is supplied with conformity test certificate showing the lot.

MATERIALS OF CONSTRUCTION

Membrane	asymmetric PES membrane
Upstream drainage layers	Polyester
Downstream drainage layers	Polyester
Core and Cage	polypropylene
Cartridge ends	polypropylene
Outer Shell	polypropylene

FOOD-SAFETY

QUALIKAP-QKP-S capsules meet (EU) regulation 10/2011 and its subsequent amendments and regulations (EC) 1935/2004 and 1895/2005.

BIO-SAFETY AND EXTRACTABLES

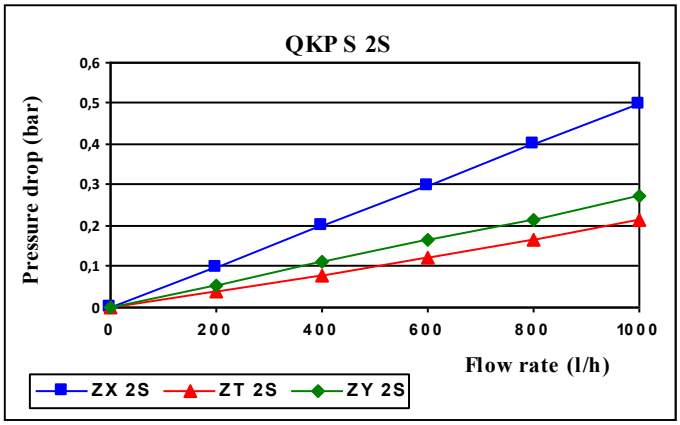
- Materials are compliant to USP-VI CLASS toxicological requirements and USP-Plastic Materials chemical and physical requirements.
- Capsule filters meet USP "Water for injection" requirements for endotoxin particle release; the bacterial endotoxin are determined using LAL Test.
- Extractable NVR (gravimetric) after autoclave ≤ 2 mg.
- TOC and conductibility according USP "Purified water" and "Water for Injection" requirements.

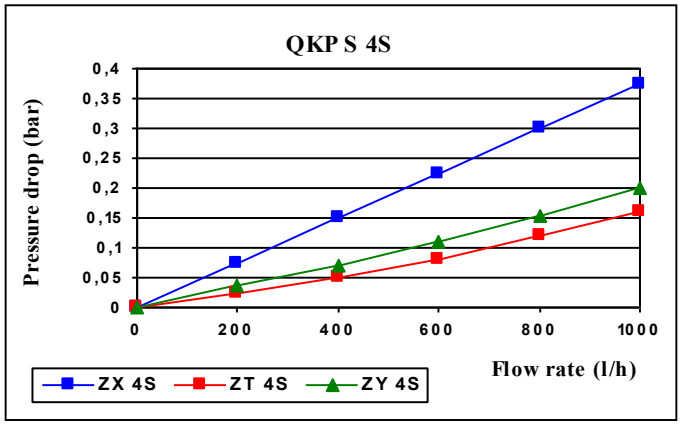
RECOMMENDED OPERATING CONDITIONS

- max. continuous temperature	40 °C
- max. cumulative time of steam sterilization (no in line sterilization available)	16 hours at 125 °C or 8 hours at 135 °C (30' cycle)
- max. pressure	5 bar at 40 °C
- chemical sanitization	compatible with a wide range of sanitizers
- forward flow max. differential pressure	4,5 bar at 40 °C
- reverse flow max. differential pressure	1,0 bar at 40 °C
- recommended pressure drop for changeover	2,0 bar at 40 °C
- in situ recommended flushing volume	1 liter

CODE	ABSOLUTE FILTRATION GRADE IN LIQUIDS	BACTERIAL REDUCTION CHARGE $>10^7$ CFU/cm^2 *	ACCEPTANCE LIMIT FOR DIFFUSION TEST (ml/min)
ZX	0,1 µm	Acholeplasma Laidlawii	≤ 9.0 @ 3,5 bar for size 2 ≤ 18.0 @ 3,5 bar for size 4
ZY	0,2 µm	Brevundimonas Diminuta	≤ 8.0 @ 2,8 bar for size 2 ≤ 16.0 @ 2,8 bar for size 4
ZT	0,45 µm	Serratia marcescens	≤ 7.5 @ 1,7 bar for size 2 ≤ 15.0 @ 1,7 bar for size 4
* according ASTM F838			

WATER FLOW RATE CHARTS





QUALIKAP QKP-S ORDERING INFORMATION

QKP - S - 2 S - X P ZY - PH

OUTER SHELL	CODE
polypropylene	**P**

MEMBRANE FILTER	CODE
PES	**S**

NOMINAL LENGHT	CODE
175 mm	**2**
287 mm	**4**

Vent-Draining valve—O Rings	CODE
Silicone	**S**

FILTER ELEMENT ASSEMBLY	CODE
Thermowelded	**X**

TERMINALS FILTER ELEMENT	CODE
polypropylene	**P**

FILTRATION GRADE micron	CODE
0,1	**ZX**
0,2	**ZY**
0,45	**ZT**

CODE	PRODUCT GRADE
PH	Fluxed and tested with apirogen water , Quality certificate in the box

- Max diameter (valves included): 117 mm
- Tri-clamp connections 1 1/2”

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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