QUALIKAP QKP-T

PTFE membrane capsule filters



- Inherently Hydrophobic Membrane
- Sterilizable in autoclave
- Enhanced gas permeability
- Thermowelded assembly
- EC-listed materials for food contact
- FDA-listed materials per CFR21
- Extractables as per USP for plastic materials
- Validation Guide available

QUALIKAP QKP-T capsules are especially designed to be used as sterilizable final filter for small batches were a fluid free form particle and or biological contaminants is required. QUALIKAP QKP-T are fitted with a pleated hydrophobic PTFE membrane filter element, that guarantees enhanced performance in gas, alcoholic solution and solvent filtration, typical in pharma, cosmetic and food & beverage applications. The capsule are available with a filtration grade of 0,1 and 0,2 micron.
The filter element are manufactured 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	PTFE membrane
Upstream drainage layers	polypropylene
Downstream drainage layers	polypropylene
Core and Cage	polypropylene
Cartridge ends	polypropylene
Outer Shell	polypropylene

FOOD-SAFETY

QUALIKAP-QKP-T capsules meet regulation (EC) 1935/2004 for indirect food contact.

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 and particle release; the bacterial endotoxin are determined using LAL Test.

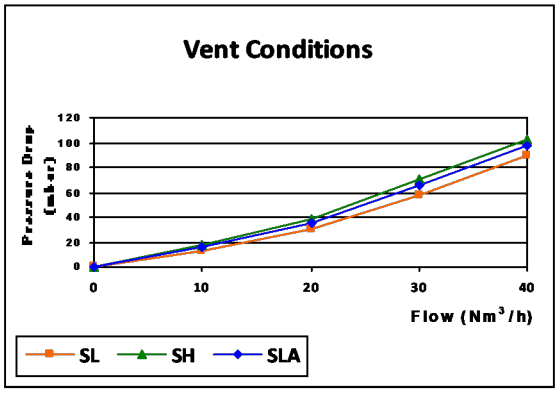
RECOMMENDED OPERATING CONDITIONS

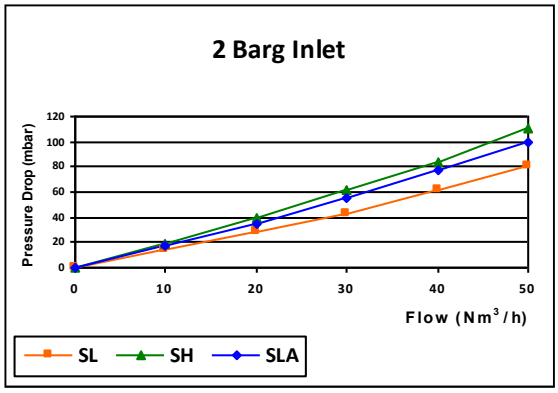
- max. continuous temperature	40 °C
- max. cumulative time of steam sterilization (no in line sterilization available)	50 hours at 135 °C (30' cycle)
- max. pressure with liquids	5 bar at 40 °C
- max. pressure with gas	3,0 bar at 40 °C
- max. differential pressure	4,0 bar at 40 °C with liquids - 2,0 bar at 40 °C with gas
- recommended pressure drop for changeover	2,0 bar at 40 °C

CODE	ABSOLUTE FILTRATION GRADE IN LIQUIDS	3) BACTERIAL RETENTION $>10^7$ CFU/cm^2	ACCEPTABLE LIMIT FOR INTEGRITY TEST
SH	0,1 µm	Acheleoplasma laidlawii in liquid	1) ≤ 6 ml/min @ 1,3 bar for size 2
			1) ≤ 12 ml/min @ 1,3 bar for size 4
SL	0,2 µm	Brevundimonas diminuta	1) ≤ 6 ml/min @ 0,8 bar for size 2
			1) ≤ 12 ml/min @ 0,8 bar for size 4
SLA	0,2 µm	Brevundimonas diminuta	2) ≤ 7 Nml/10min @ 2,5 bar for size 2
			2) ≤ 14 Nml/10min @ 2,5 bar for size 4

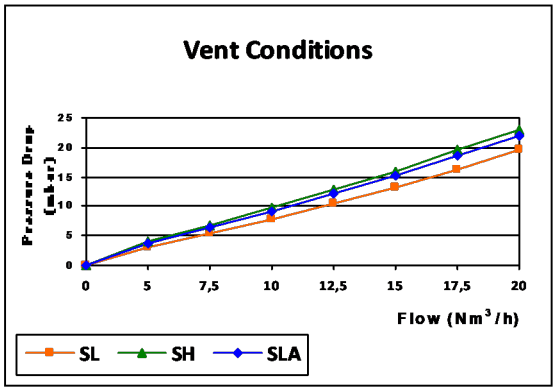
Note:
1– The integrity is verified by DIFFUSION TEST using an aqueous solution of isopropyl alcohol (IPA 60/40 V/V) as wetting liquid.
2– The integrity is verified by WATER FLOW INTRUSION TEST.
3– Cartridges are validated for retention of the microorganism reported in the table according to ASTM F838

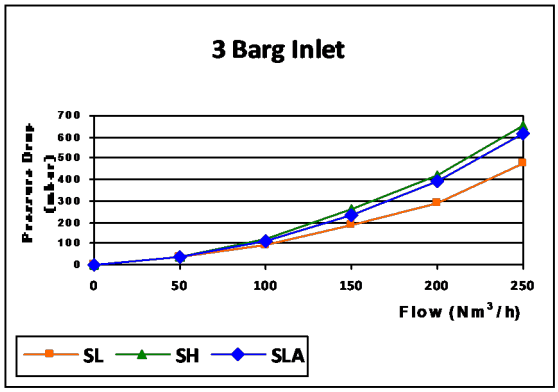
AIR FLOW RATE CHARTS FOR SIZE 2





AIR FLOW RATE CHARTS FOR SIZE 4





QUALIKAP QKP-T ORDERING INFORMATION

QKP - T - 2 S - X P SH - PH

SHELL	CODE
polypropylene	P

MEMBRANE	CODE
PTFE	T

NOMINAL LENGHT	CODE
175 mm	2
287 mm	4

Vent & Drain Valve O-Rings	CODE
Silicone	S

FILTER ELEMENT ASSEMBLY	CODE
Thermowelded	X

FILTER ELEMENT END CAPS	CODE
polypropylene	P

FILTRATION GRADE micron	CODE
0,1	SH *
0,2	SL *
0,2	SLA **

* integrity by diffusion test
** integrity by water intrusion test

CODE	PRODUCT GRADE
PH	Non-pyrogenic grade, quality certificate in the box

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

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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.