

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 where a fluid free from 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 capsules are available with a filtration grade of 0,1 and 0,2 micron.

The filter element is 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
Outer Shell	polypropylene
Terminals	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 is 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

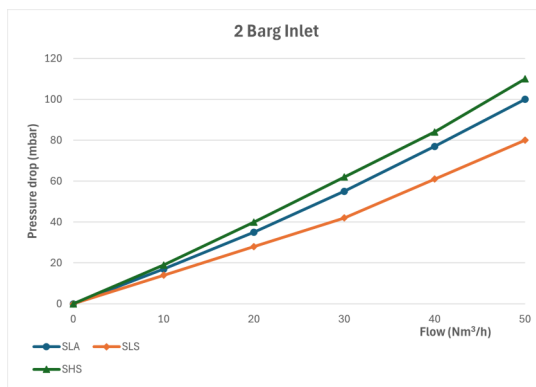
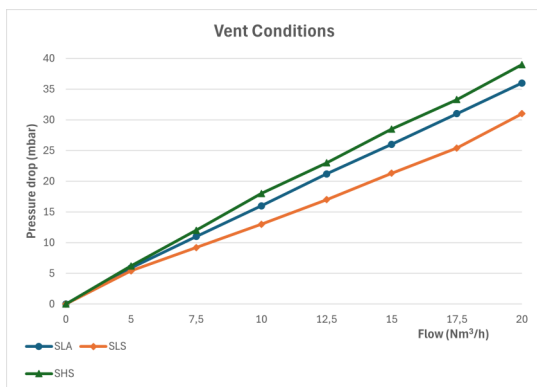
Note:

1- The integrity is verified by DIFFUSION TEST using an aqueous solution of isopropyl alcohol (IPA 60/40 V/V) as wetting liquid.

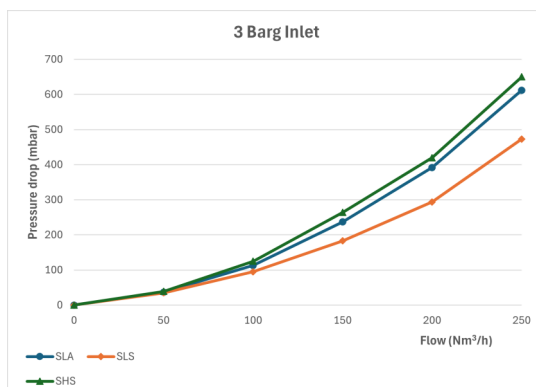
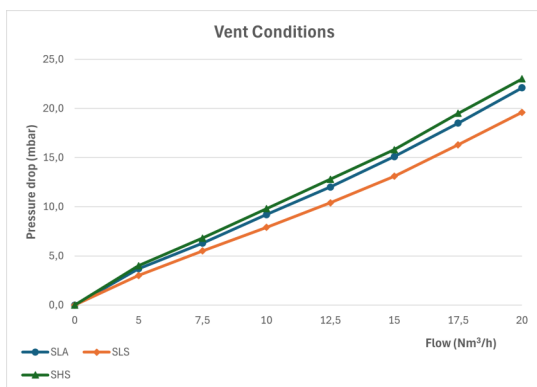
2- The integrity is verified by WATER FLOW INTRUSION TEST.

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		-	I	-	2	S	-	X	P	SH	-	PH	
SHELL		CODE										CODE	
polypropylene		P										PH	
MEMBRANE		CODE										PRODUCT GRADE	
PTFE		T										Fluxed with non-pyrogenic water , quality certificate in the box	
NOMINAL LENGHT		CODE										FILTRATION GRADE micron	
175 mm		2										0,1	
287 mm		4										0,2	
Vent & Drain Valve O-Rings		CODE										0,2	
Silicone		S										* integrity by diffusion test	
FILTER ELEMENT ASSEMBLY		CODE										** integrity by water intrusion test	
Thermowelded		X										CODE	
												polypropylene	
												P	