

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 particles 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 elements are manufactured in a controlled environment; each filter element is tested to verify the integrity.

Each capsule is supplied with a 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

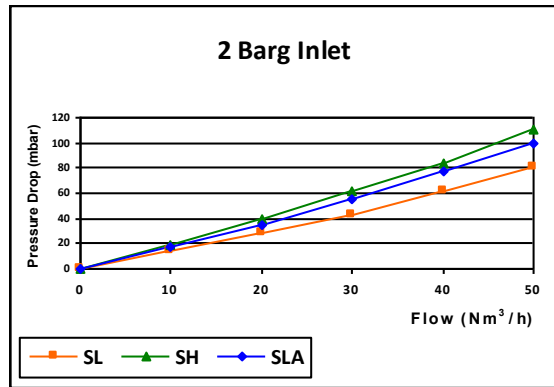
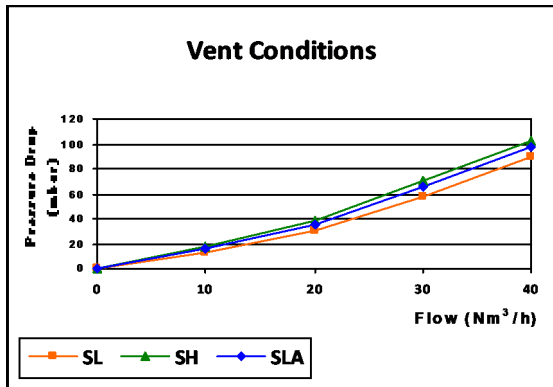
Note:

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

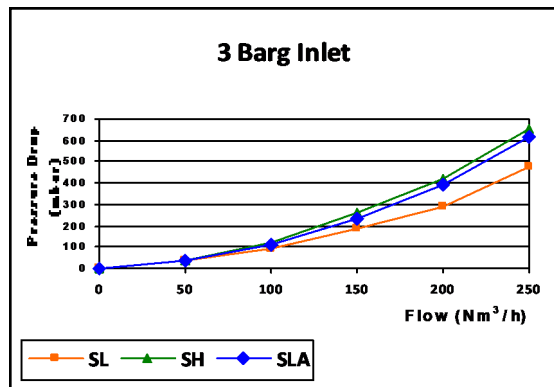
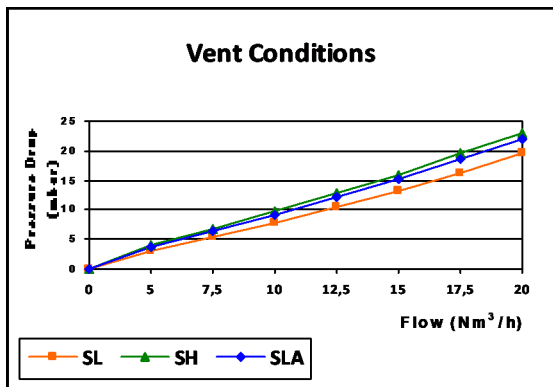
2- The integrity is verified by WATER FLOW INTRUSION TEST.

3- Cartridges are validated for retention of the microorganism reported in the table according to ASTM F838

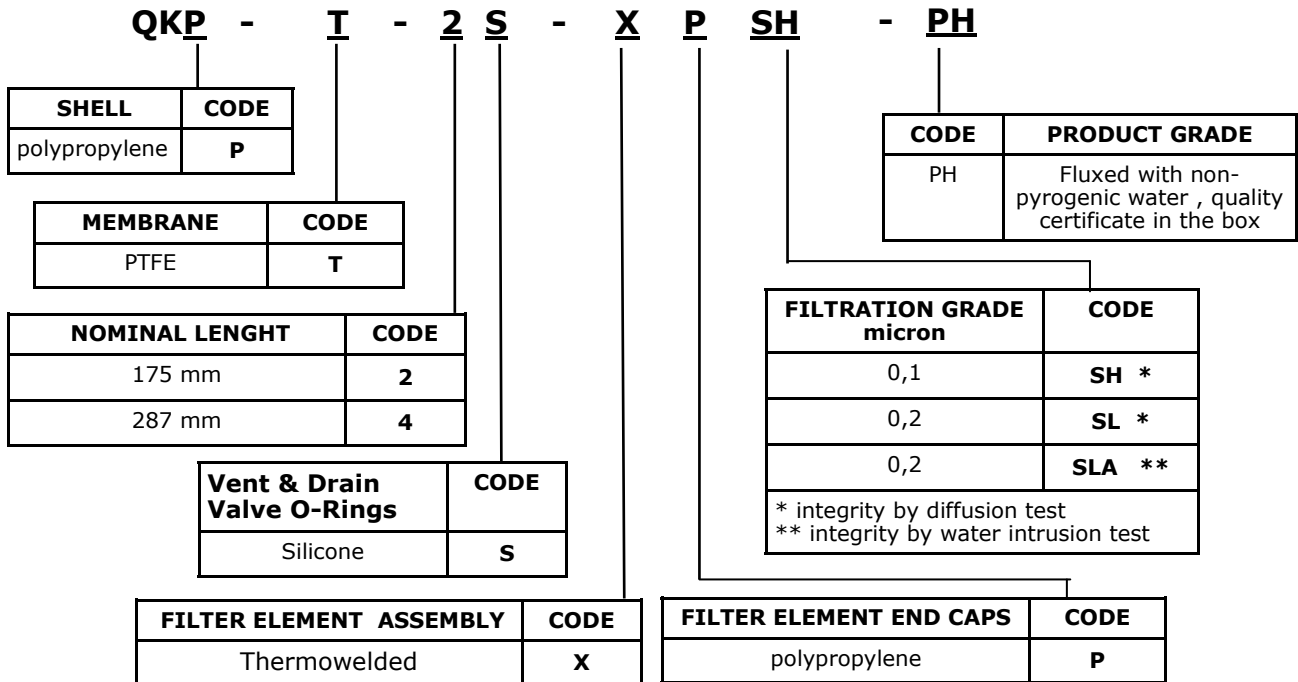
AIR FLOW RATE CHARTS FOR SIZE 2



AIR FLOW RATE CHARTS FOR SIZE 4



QUALIKAP QKP-T ORDERING INFORMATION



- 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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