QUALIKAP QKP-P

PP filter media capsules

- High filtering surface
- High mechanical resistance and dirt holding capacity
- Sanitizable and autoclave sterilizable
- EC-listed materials as per food contact
- FDA-listed materials as per CFR21
- Extractables as per USP for plastic materials
- Validation Guide available
- Low extractables

QUALIKAP QKP-P are capsules entirely manufactured using polypropylene to generate a high compatibility for fluid and acqueos solution filtration.
The pleated different filtration layers provide enhanced dirt holding capacity, together with high flow rate and a wide compatibility with the different acid/basic solutions and sanitizing agents.
The QUALIKAP QKP-P are available with filtration rating from 0,6 to 20 micron.
Manufacturing is completed in a controlled environement; each filter is subject to specific tests before delivery.

MATERIALS OF CONSTRUCTION

Filter media	polypropylene
Upstream drainage layers	polypropylene
Downstream drainage layers	polypropylene
Core and Cage	polypropylene
Terminals	polypropylene
Shell	polypropylene

APPLICATIONS

Ultra-pure water, alcoholic solutions, acid-base and buffer solutions, vaccines, physiological solutions, biotechnological products, ophthalmic liquids, laboratory batch purification.

FOOD-SAFETY

QUALIKAP-QKP-P 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.

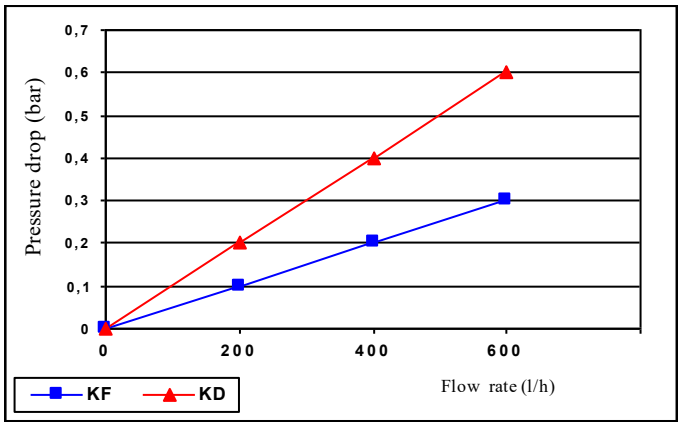
RECOMMENDED OPERATING CONDITIONS

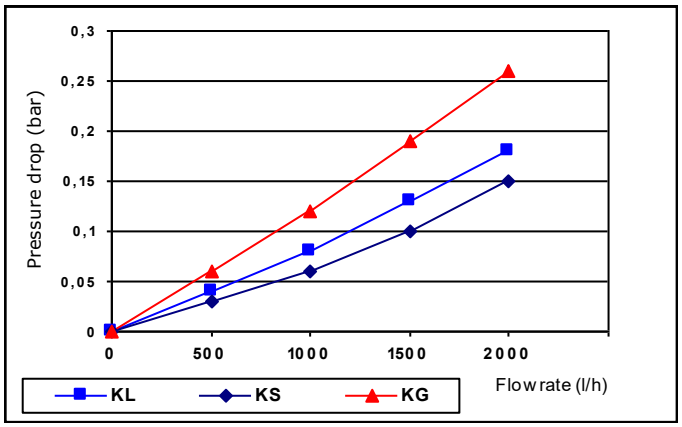
- max. continuous temperature	40 °C
- max. cumulative time of steam sterilization (no in line sterilization allowed)	40 hours at 125 °C or 20 hours at 135 °C (30' cycle)
- max. pressure	5 bar at 40°C (liquids) - 3 bar at 40°C (gas)
- chemical sanitization	compatible with a wide range of sanitizers
- max. differential pressure @ forward flow	4,0 bar at 40 °C - 2,0 bar at 40°C (gas)
- max. differential pressure @ reverse flow	1,0 bar at 40 °C
- changeover recommended pressure drop	2,0 bar at 40 °C

CODE	FILTRATION RATING *	MAX SUGGESTED WATER FLOW RATE (l/h)
KD	0,6 µm	200
KF	1,2 µm	400
KG	2,5 µm	1000
KL	4,5 µm	1500
KR	6,5 µm	1500
KS	10,0 µm	1500
KT	20,0 µm	1500
KV	40,0 µm	1500
KZ	60,0 µm	1500

* Liquids and wet gases

WATER FLOW RATE CHARTS





QUALIKAP QKP-P ORDERING INFORMATION

QKP - P - 2 S - X P KF - PH

SHELL	CODE
Polypropylene	**P**

FILTER	CODE
PKP	**P**

NOMINAL LENGTH	CODE
175 mm	**2**

VENT-DRAINING VALVE GASKETS	CODE
Silicone O-Rings	**S**

FILTER ELEMENT ASSEMBLY	CODE
Thermowelded	**X**

TERMINALS FILTER ELEMENT	CODE
Polypropylene	**P**

FILTRATION GRADE micron	CODE
0,6	**KD**
1,2	**KF**
2,5	**KG**
4,5	**KL**
6,5	**KR**
10,0	**KS**
20,0	**KT**
40,0	**KV**
60,0	**KZ**

CODE	PRODUCT GRADE
PH	Fluxed and tested with non-pyrogenic water. Quality Certificate in the box

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

DS-QKP-634-EN-25

Data contained in this bulletin 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.
For the type of liquids and gases that can be used, contact Bea Technologies.

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