POLYSAN—PKN

- High dirt holding capacity
- Higher resistance to pressure shocks
- Steamable and sanitizable
- EC-listed materials for Food contact
- FDA-listed materials per CFR21

POLYSAN-PKN is obtained by pleating several polypropylene layers of decreasing porosity to achieve high effective filtration area, high dirt holding capacity and controlled filter ratings.
All the components in polypropylene are assembled by thermowelding process. POLYSAN-PKN is well suited in all applications (chemical—petrochemical—water treatment—food&beverage—RO—etc..) thanks to its streghts and high chemical compatibility both with liquid and gases.

MATERIALS OF CONSTRUCTION

Filter media	polypropylene
Upstream supports	polypropylene
Downstream supports	polypropylene
Internal Core	polypropylene
External Cage	polypropylene
End caps / Adapters	polypropylene

FOOD-SAFETY

POLYSAN-PKN filter elements materials meet (EU) regulation 10/2011 and its amendments, regulations (EC) 1935/2004 and 1895/2005.

CHEMICAL AND BIO-COMPATIBILITY

POLYSAN-PKN filter elements are made by FDA listed materials per CFR 21 and show a high chemical compatibility with most chemical products and solvents.

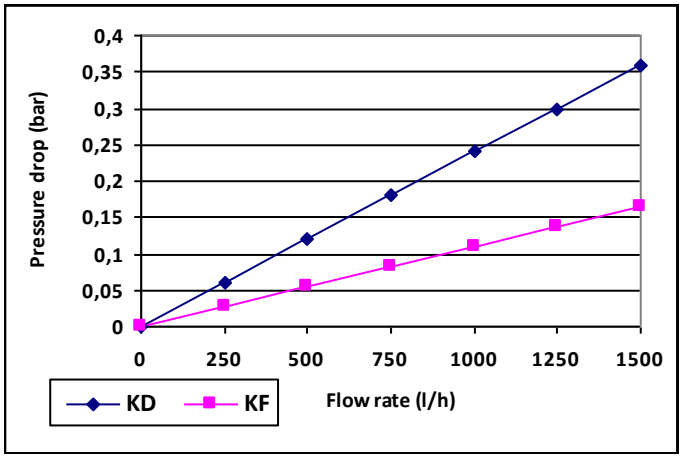
OPERATING CONDITIONS

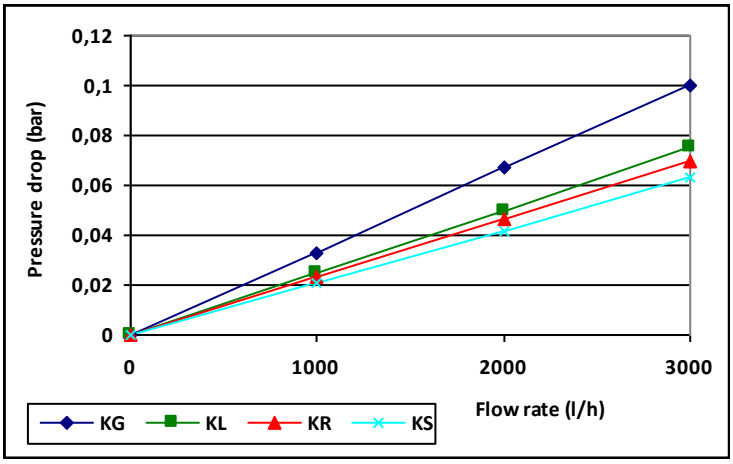
- max. operative temperature	65 °C (75 °C PW grade)
- max. project temperature PW grade	85 °C
- sterilization with steam	continuously with cycles of 20 minutes at 121 °C
- sanitization with hot water	90 °C max with 30 minutes cycles
- sanitization with chemicals	Can be sanitized by standard chemical agents
- max. differential pressure	5,0 bar at 25 °C
- recommended change out differential pressure	2,0 bar at 25 °C

POLYSAN-PKN SOE END FITTING			
CODE	FILTRATION RATING (µm) *	MAX. WATER FLOW RATE FOR 10" CARTRIDGE (l/h)	MAX. AIR/GAS FLOW RATE FOR 10" CARTRIDGE (Nm^3/h @ 7 bar and 20°C)
KD	0,2	500	500
KF	0,50	800	550
KG	0,70	3000	600
KL	1,0	3000	600
KR	2,5	3000	600
KS	5,0	3000	600
KT	10,0	3000	600
KV	20,0	3000	600
KZ	30,0	3000	600

* Referred to filtration of liquid and wet gas; filtration efficiency is drastically increased when dry gases are involved

WATER FLOW RATE FOR 10" CARTRIDGE POLYSAN-PKN





POLYSAN ORDERING INFORMATION

PKN - 207 1 - KR - [ ] - [ ]

END FITTING	CODE
DOE: double open end with flat gaskets.	**200**
SOE: open end with (2) O-Ring 2.222. Blind end with flat top.	**203**
SOE: open end with (2) O -Ring 2.226 and 2 bayonet locks. Blind end with fin.	**207**
SOE: open end with (2) O-Ring 2.222. Blind end with fin.	**208**
SOE: open end with (2) O -Ring 2.225. Blind end with fin.	**209**
SOE: open end with (2) O-Ring 2.222 and 3 bayonet locks. Blind end with fin.	**212**

FILTRATION RATING µm PKN	CODE
0,2	**KD**
0,5	**KF**
0,7	**KG**
1,0	**KL**
2,5	**KR**
5,0	**KS**
10,0	**KT**
20,0	**KV**
30,0	**KZ**

CODE	NOMINAL LENGTH
1	10"
2	20"
3	30"
4	40"

CODE	GASKETS	
no code	Standard	Viton
E	On request	EPDM
S	On request	Silicone
N	On request	Buna

CODE	DESCRIPTION
no code	General Grade
PW	Power grade max project temp.: 85 °C Operative temp.: 75 °C

DS-PKN-538-UK-18/A

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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.