

POLYSAN ADM FREE

- Higher surface area
- Higher resistance with high dirt holding capacity
- Steamable and sanitizable
- Food contact materials, according to EU and FDA requirements
- Validation guide on request
- Materials free from substances of animal origin (ADM FREE—Animal Derived Materials)



POLYSAN ADM FREE is "Animal Free" as the materials used for its manufacturing are free from animal derived substances. It is obtained by pleating up to 5 polypropylene layers of decreasing porosity to achieve high effective filtration area, high dirt holding capacity and precise and controlled filter ratings. All the components in polypropylene are assembled by thermowelding process. POLYSAN ADM FREE is well suited in all applications (chemical—petrochemical—water treatment—food&beverage—RO—etc..) thanks to its strengths and high chemical compatibility both with liquid and gases; PH grade is prefluxed with non-pyrogenic water and the absence of animal derived substances makes it suitable for the newest and even more increasing pharma and bio-pharma market.

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

BIO-SAFETY

Filter media and components pass USP Biological Reactivity and Chemical-Physical tests for CLASS VI plastics. Specific for "PH" grade: the filter meets USP "Water for injection" requirements for particle release and the effluent is Non-Pyrogenic per USP Bacterial Endotoxins (< 0,25 EU/ml).

RECOMMENDED OPERATING CONDITIONS

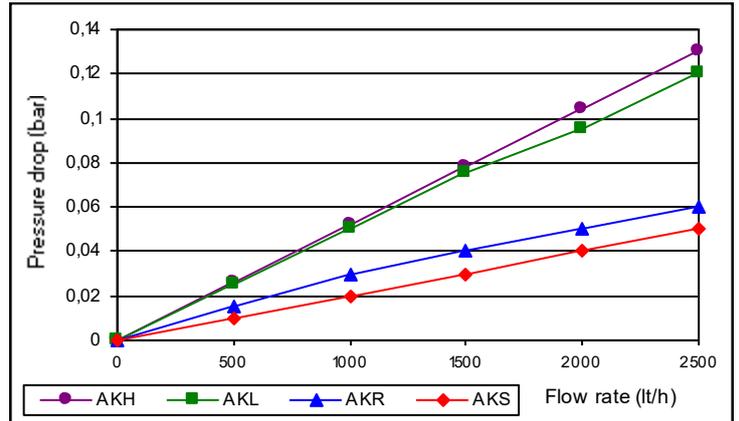
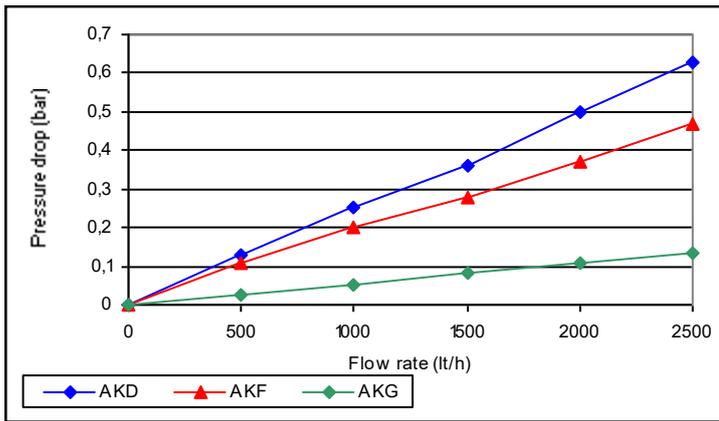
- max. continuous temperature	65 °C
- regeneration	2% NaOH solution at room temperature
- sterilization with steam	continuously with cycles of 20 minutes at 121 °C
- sanitization with hot water	80 °C max
- sanitization with chemicals	Can be sanitized by standard chemical agents
- max. differential pressure	5,0 bar at 25 °C
- recommended change out differential pressure	2,0 bar at 25 °C

POLYSAN-PKP 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)
AKD	0,6	450	400
AKF	1,2	800	500
AKG	2,5	3000	550
AKH	3,0	3000	550
AKL	4,5	3000	600
AKR	6,5	3000	600
AKS	10,0	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-PKPA



POLYSAN ADM FREE ORDERING INFORMATION

PKPA - 207 1 - AKR - PH

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 2.222 and 3 bayonet locks. Blind end with fin.	212

ABSOLUTE FILTRATION RATING µm	CODE
PKP	
0,6	AKD
1,2	AKF
2,5	AKG
3,0	AKH
4,5	AKL
6,5	AKR
10,0	AKS

CODE	DESCRIPTION
PH	Prefluxed with non-pyrogenic water; Quality Certification in the box.

CODE	GASKETS	
no code	Standard	Silicone
Z °	On request	Soft teflon
F *	On request	FEP

* Only for SOE
° Only for DOE

CODE	NOMINAL LENGTH
1	10"
2	20"
3	30"
4	40"
05	5"

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.

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