PORE FILTRATION

PUREPORE PP RANGE OF PLEATED DEPTH FILTERS

Ideal for all critical particulate and clarification duties in all the process market sectors

PurePore PP pleated depth filter are a range of absolute rated (99.98%) high performance, pleated cartridge made from polypropylene melt blown filter media. Used for critical clarification and prefiltration duties of a wide range of liquid products in food & beverage, fine chemicals, water treatment, healthcare, and industrial applications.

The all-polypropylene construction provides excellent and wide-ranging chemical compatibility with aggressive and viscous chemicals including solvents, acids, and bases. The construction also ensures that the cartridges do not suffer from hydrolysis, which would result in contamination of the process liquid.

The combination of high surface area, graded pore size density and robust construction leads to cartridges that offer superior performance over the whole of their service life.

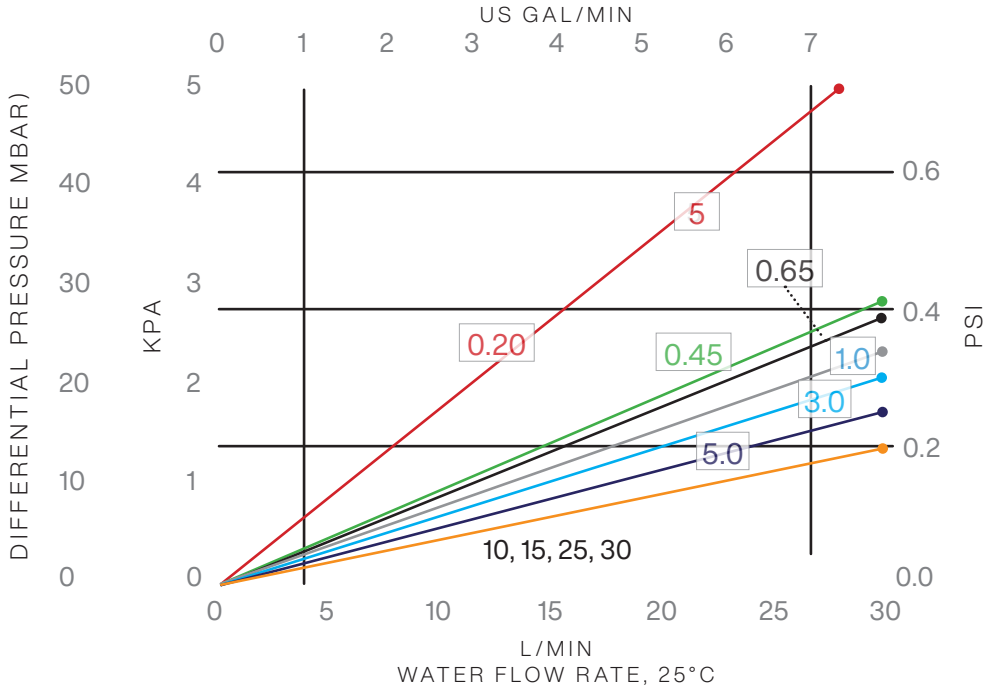
FEATURES AND BENEFITS

- Range of micron ratings from 0.2 to 30 micron
- High surface area cartridges provide superior flow rates and dirt holding capacity leading to fewer filter change-outs.
- Beta 5000 (99.98% efficiency) - Absolute rating provides reliable and consistent filtration required in critical applications.
- Gradient pore sized media layering - Provides built-in prefiltration that extends filter life.
- Fixed pore size filtration media - Prevents unloading of contaminants as differential pressure increases.
- Heavy duty cage and core - Offers superior structural integrity under harsh conditions
- Manufactured and assembled in a clean room environment to ensure purity when placed into service.
- Optional 18 MO flush available.

TYPICAL APPLICATIONS

FINE AND SPECIALTY CHEMICALS
PLATING BATHS
FOOD & BEVERAGE
ULTRAPURE WATER
PHARMACEUTICALS
SOLVENTS
ACIDS
BASES
BOTTLED WATER
ETCH BATHS

FLOW RATE CHARACTERISTICS



Filters were wetted by IPA or alcohol before testing.

SPECIFICATIONS	
Micron Ratings	0.20µm, 0.45µm, 0.65µm, 1.0µm, 3.0µm, 5.0µm, 10µm, 15µm, 25µm, 30µm
Surface Area	7.4ft^2 of Effective Filtration Area (EFA) per 10" element
Steam Sterilization	121°C 12so°F / 30min

MATERIALS OF CONSTRUCTION	
Filter Medium	Polypropylene Nano Fiber
Support Layers	Polypropylene
Support	Hardware Polypropylene
Core	Polypropylene/ Glass fiber reinforce Polypropylene
End Caps	Polypropylene/ SS 316L
Sealing	Silicone/ EPDM/ FKM/ NBR/ PFA Encapsulated FKM/ PFA encapsulated
Manufacturing Method	Contains no adhesives

FILTER DIMENSIONS	
Outer Diameter	2-11/16in (68mm)
Inner Diameter	1-1/4in (33mm)
Nominal Length	10in (250mm), 20in (500mm), 30in (750mm), 40in (1000mm)

OPERATING PARAMETERS						
Temperature		20°C /68°F	40°C /104°F	60°C /140°F	80°C /176°F	90°C /194°F
Max. Forward dP	PP	690kPa /100psi	600kPa /87psi	360kPa /52psi	270kPa /39psi	250kPa /37psi
	Reinfore PP	690kPa /100psi	690kPa /100psi	690kPa /100psi	500kPa /72psi	450kPa /65psi
	GF Reinfore PP	690kPa /100psi	690kPa /100psi	690kPa /100psi	690kPa /100psi	690kPa /100psi
Max. Reverse dP		450kPa /65psi	400kPa /58psi	350kPa /51psi	160kPa /23psi	140kPa /20psi

PARTICLE REMOVAL EFFICIENCY			
Removal Rating	ß = 5000	ß = 1000	ß = 100
	99.98%	99.9%	99%
0.20µm	0.2	<0.2	<0.1
0.45µm	0.4	0.2	<0.1
0.65µm	0.6	0.3	0.1
1.0µm	1.0	0.4	0.1
3.0µm	3.0	1.4	0.1
5.0µm	5.0	1.8	0.15
10µm	10	2	0.25
15µm	15	4	0.35
25µm	25	7	0.8
30µm	30	18	3.2

Testing was conducted using the single-pass test method, water flow rate at 10 lpm (2.6gpm) 10" cartridge filter. Contaminants included coarse and fine test dust. Removal efficiencies were determined using laser particle counters.

MORE FROM POREFILTRATION:

Depth Filters – Pleated Depth Filters – Membrane filters – Carbon filters – Bag Filters – St.St. Filters – Basket Filters – Strainers – Hygienic & Industrial liquid housings – Gas housings

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