Hall Pyke

Membrane Filtration

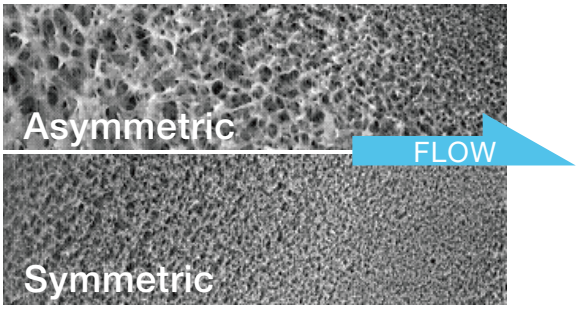
AdvanLife®
Filter Cartridges

The SMART choice for filtration

AdvanLife® Filter Cartridges

Highly Asymmetric PES Membrane · Sterilizing-Grade

AdvanLife® Filter Cartridges are constructed of a single-layer asymmetric hydrophilic PES membrane. Characteristics include excellent throughput and high dirt hold capacity and durability. The high flow rates, when compared to other sterilizing-grade filter cartridges, reduce filtration costs.



Features and Benefits

- Highly asymmetric PES membrane provides high dirt holding capacity and longer service life
- Each filter is individually Integrity Tested prior to leaving the factory
- Available in absolute ratings from 0.1µm to 1.2µm for precise bacteria and particle removal
- Complies with Food Contact Regulations: FDA 21CFR177-182 and 1935/2004 EC

Materials of Construction

Filter Media	PES
Cage/Support	Polypropylene
Core/End Caps	Polypropylene

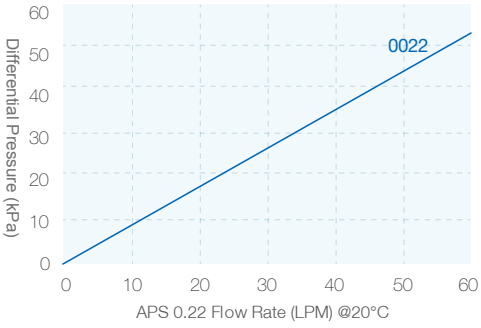
Microbiological Stability

Longer life with highly asymmetric membrane

Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	4.0 bar / 21°C (forward)
	2.4 bar / 70°C (forward)
Bubble Point	BP: >0.34 MPa (water), 0.22 μm
	BP: > 0.22 MPa(water), 0.45 μm
Diffusion Flow	DF: < 30 ml/min/10"@0.25Mpa(water), 0.22μm
	DF: < 28 ml/min/10"@0.16Mpa(water), 0.45 μm
Steam Sterilization	121°C/30 min @Max. Differential Pressure for 0.3 bar
Hot Water Sterilization	85°C/30 min @Max. Differential Pressure for 2 bar
Cleaning Solution	2% NaOH Solution @ ≤65°C
Effective Filtration Area	0.58m² / Φ69-10 inch

Flow Rate Characteristics



Flow Rate (LPM)	10	20	30	40	50	60
Differential Pressure (kPa)	9.2	18.5	27.7	37.0	46.2	55.5

Raliable Microbiological Control

The primary purpose of a membrane filter cartridge in beverage processing is to effectively control spoilage microorganisms.

Typical Log Reduction Value (LRV)			
	B.Diminuta	**Lactobaccilus Brevis**	**Sasharomyces Cerevisiae**
0.1μm	>7/cm²	N/A	N/A
0.2μm	>7/cm²	N/A	N/A
0.45μm	N/A	>7/cm²	>7/cm²
0.65μm	N/A	>4/cm²	>7/cm²
1.2μm	N/A	N/A	>7/cm²

Log Reduction Values are calculated using the following formula: $LRV = \log_{10}\left(\frac{\text{total number of organisms entering the filter}}{\text{total number of organisms exiting the filter}}\right)$

Ordering Information

APSBR	Removal	End Cap	Nominal Length	Seal Material	**-F**
[Φ69]	**0010** =0.1 μm	**DOE** =Double open end	**05** = 5"	**S** =Slilicone	
	0022 =0.22 μm	**HTC** =222 o-ring/flat (PBT Insert)	**10** =10"	**E** =EPDM	
	0045 =0.45 μm	**HTF** =222 o-ring/fin (PBT Insert)	**20** =20"	**V** =Viton	
	0065 =0.65 μm	**HSF** =226 o-ring/fin (PBT Insert)	**30** =30"		
	0080 =0.8 μm	**SSF** =226 o-ring/fin (SS insert)	**40** =40"		
	0120 =1.2 μm	**SSC** =226 o-ring/flat (SS insert)			
		STF =222 o-ring/fin (SS insert, 3 Tabs)			

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