

CLK series - Cellulose Acetate membrane Capsule Filters

Capsflow CLK series is family of full size capsule filters with Staubli connection at the vent, which enables in-line integrity test. The CA membrane capsule utilizes hydrophilic Cellulose Acetate membrane. It offers broad chemical compatibility, high flow rate and low extractable. Cellulose Acetate is particularly suited for the sterile filtration of vaccines, blood and plasma, and biopharmaceuticals with high product recovery. The low-adsorption membrane helps maintain the integrity of large, shear-sensitive proteins during processing.



Capsule

Typical Applications

- Bioprocessed pharmaceuticals
- Ophthalmics
- Coagulation factors, Albumin
- Diagnostics
- Blood and Serum Fractions
- Bacterial, viral & mRNA-based vaccines
- Purified protein solutions
- Biological fluids
- Fluids containing preservatives

Vent/Drain Option

- Staubli
- Stepped hose barb

Fitting Option

- 1.5" TC
- 1/2" Hose Barb
- 3/4" Hose Barb

Maximum Operating Conditions

- Maximum operating pressure
 - Liquid: 5 bar (80psi) at 77°F/25°C
- Maximum Operating Temperature: 80 °C
- Autoclave at 125 °C, 30 minutes and 25 cycles
- Autoclave at 135 °C, 30 minutes and 15 cycles

Toxicity

All materials meet the specifications for biological safety per USP Class VI -121°C for plastics

Filter Area

Size	Filtration Area
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- | | |
|--------|-------------------------|
| • 1.5" | = 900 cm ² |
| • 2.5" | = 1600 cm ² |
| • 5" | = 3200 cm ² |
| • 10" | = 6500 cm ² |
| • 20" | = 13000 cm ² |
| • 30" | = 19500 cm ² |
| • 40" | = 26000 cm ² |

Construction of Materials

- Filter Media: Cellulose Acetate
- Media Support: Polypropylene
- End Caps: Polypropylene
- Inner Core: Polypropylene
- Outer Cage: Polypropylene
- Sealing Method: Thermal Bonding

Food Safety Compliance

Materials of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations, 21CFR. Materials used to produce filter media and hardware are safe for use in contact with foodstuffs in accordance with EU Directives 10/2011.

Cartridge Integrity Test Specifications

Water wetted membrane

Pore size	Min. Bubble point
0.2µm	3.2 barg@22°C
0.45µm	2.1 barg@22°C
0.65µm	1.3 barg@22°C
0.8µm	1.1 barg@22°C
1.2µm	0.7 barg@22°C

ORDERING INFORMATION								
Product Type	Membrane Type	Membrane pore size	Application	Sterilization	Size	Fittings In/Out	Vent/Drain	Revision
CIK = Capsule InT Filter	CA =CA	Application B	B =Low Bio	N = Not Sterile	XX = 1.5"	5TC = 1.5" TC	SS = St/St	0 = Bag label
		0020 = 0.2 µm						
		0045 = 0.45 µm						
		0065 = 0.65 µm	S = Ster Grade	S = Sterile	SS = 2.5"	2HB = 1/2" HB	HH = HB/HB	1 = Housing label
		0080 = 0.8 µm						
		0120 = 1.2 µm			LL = 5"	4HB = 3/4" HB	SH = St/HB	
		Application S						
		0402 = 0.45/0.2 µm			TE = 10"	T2B = 1.5" TC/ 1/2" HB	HS = HB/St	
		0602 = 0.65/0.2 µm						
		0604 = 0.65/0.45 µm			TW = 20"	T4B = 1.5" TC/ 3/4" HB		
		0804 = 0.8/0.45 µm			TH = 30"	2BT = 1/2"HB/ 1.5 TC		
		1204 = 1.2/0.45 µm			FO = 40"	2B4 = 1/2"HB/ 3/4"HB		
						4BT = 3/4"HB/ 1.5"TC		
						4B2 = 3/4"HB/ 1/2"HB		