

CLK series Asymmetrical PES membrane Bio-burden Reduction Capsule Filters

The PES membrane capsule utilizes single layer hydrophilic polyethersulfone membrane. It offers broad chemical compatibility, high flow rate and low extractable.

Polyethersulfone is particularly suited for the filtration of products that contain substances that adsorb to the media. The lower binding characteristics of polyethersulfone make it a good choice for filtration of valuable protein solutions such as vaccines and biologicals.



Capsule

Typical Applications

- Cell Culture Media
- Large Volume Parenterals (LVP's)
- Pharmaceutical Bulk Chemical Solutions
- Diagnostics
- Blood and Serum Fractions
- Purified Water
- Beer, Wine and Spirits
- Juice & Soft Drinks
- Bottled Water

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
 - Gas: 3.5 bar (60psi) 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

- 2.5" = 1400 cm²
- 5" = 2500 cm²
- 10" = 6000 cm²
- 20" = 12000 cm²
- 30" = 18000 cm²
- 40" = 24000 cm²

Construction of Materials

- Filter Media: Polyethersulfone
- 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	Diffusive Flow/10"
0.04 µm	2.3 barg@22°C/IPA	≤ 25 ml/ 1.7 barg
0.1 µm	1.7 barg@22°C/IPA	≤ 25 ml/ 1.3 barg
0.2 µm	3.5 barg@22°C	≤ 25 ml/ 2.8 barg
0.45 µm	2.3 barg@22°C	≤ 25 ml/ 1.7 barg
0.65 µm	1.6 barg@22°C	≤ 25 ml/ 1.0 barg
0.8 µm	1.3 barg@22°C	≤ 25 ml / 0.8 barg
1.2 µm	0.9 barg@22°C	≤ 25 ml/ 0.6 barg

Eg.=>CIKPS0010BNSS5TCSS0

ORDERING INFORMATION								
Product Type	Membrane Type	Membrane pore size	Application	Sterilization	Size	Fittings In/Out	Vent/Drain	Revision
CIK = Capsule InT Filter	PS = PES	Application G	B =Low Bio	N = Not Sterile	SS = 2.5"	5TC = 1.5" TC	SS = St/St	0 = Bag label
		0010 = 0.1 µm			LL = 5"	2HB = 1/2" HB	HH = HB/HB	1 = Housing label
		0020 = 0.2 µm			TE = 10"	4HB = 3/4" HB	SH = St/HB	
		0045 = 0.45 µm			TW = 20"	T2B = 1.5" TC/ 1/2" HB	HS = HB/St	
		0065 = 0.65 µm			TH = 30"	T4B = 1.5" TC/ 3/4" HB		
		0080 = 0.80 µm			FO = 40"	2BT = 1/2"HB/ 1.5 TC		
		0120 = 1.2 µm				2B4 = 1/2"HB/ 3/4"HB		
		Application B				4BT = 3/4"HB/ 1.5"TC		
		0020 = 0.2 µm				4B2 = 3/4"HB/ 1/2"HB		
		0045 = 0.45 µm						
		0065=0.65µm						
		Application S						
		02x4 =0.2/0.04µm						
		04x4=0.45/0.04µm						
		0402=0.45/0.2µm						
		0602=0.65/0.2µm						
		0604=0.65/0.45µm						
		0804=0.8/0.45µm						
		0201=0.2/0.1µm						
		0401=0.45/0.1µm						