



FILTER TECHNOLOGY

# CAPSFLOW CATALOG





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# CAPSFLOW INDEX



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# CSK series

## Capsule Filters

# CSK series - Asymmetrical PES membrane Capsule Filters

## Description and use

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.



## 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

## Toxicity

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

## Filter Area

- 500 cm<sup>2</sup>
- 1000 cm<sup>2</sup>
- 1500 cm<sup>2</sup>
- 2100 cm<sup>2</sup>

## Fitting Option

- NPT-Male
- NPT-F
- Swagelok
- CPCPLC-Male
- CPCPLC-Female
- Hose Barb
- Stepped Hose Barb
- Triclover

## Construction of Materials

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

## 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

## 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

## Capsule Integrity Test Specifications

### Gen Purpose

Pore size	Min.Bubble point
0.04 µm	2.3 barg@22°C/IPA
0.1 µm	4.8 barg@22°C
0.2 µm	3.1 barg@22°C
0.45 µm	1.7 barg@22°C
0.65 µm	1.3 barg@22°C
0.8 µm	1.2 barg@22°C
1.2 µm	0.8 barg@22°C

### Low Bio

Pore size	Min.Bubble point
0.2 µm	3.5 barg@22°C
0.45 µm	2.3 barg@22°C
0.65 µm	1.5 barg@22°C

### Ster Grade

0.2/0.04µm	2.3 Barg@22°C (IPA)
0.45/0.04µm	2.3 Barg@22°C (IPA)
0.45/0.2µm	3.5 barg@22°C
0.65/0.2µm	3.5 barg@22°C
0.65/0.45µm	2.3 Barg@22°C
0.8/0.45µm	2.3 Barg@22°C
0.2/0.1µm	1.7 Barg@22°C (IPA)
0.45/0.1µm	1.7 Barg@22°C (IPA)

## ORDERING INFORMATION

Product Type	Membrane Type	Membrane pore size	Application	Sterilization	Size	Fittings in / out	Vent/Drain	Revision
CSK = Capsule Filter	PS = PES	<b>Application G</b>	G = Gen Purpose	N = Not Sterile	05 = 500 cm <sup>2</sup>	4NM = 1/4" NPT-M	NN = None	0 = Bag label
		0010 = 0.1µm	B = Low Bio		10 = 1000cm <sup>2</sup>	8NM = 3/8" NPT-M		1 = Housing Label
		0020 = 0.2µm	S = Ster Grade		15 = 1500cm <sup>2</sup>	2NM = 1/2" NPT-M		
		0045 = 0.45µm			21 = 2100cm <sup>2</sup>	8NF = 3/8" NPT-F		
		0065 = 0.65µm				4SL = 1/4" Swagelok		
		0080 = 0.8µm				5SL = 5/16" Swagelok		
		0100 = 1.2µm				8SL = 3/8" Swagelok		
		<b>Application B</b>				4CM = 1/4" CPC-PLC-M		
		0020 = 0.2µm				4HB = 3/4" HB		
		0045 = 0.45µm				8HB = 3/8" HB		
		0065 = 0.65µm				48B = 1/4"-3/8" HB		
		<b>Application S</b>				1TC = 1" TC		
		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						

# CSK series - Hydrophobic ePTFE membrane Capsule Filters

## Description and use

Capsflow CSK series PTFE membrane capsule utilizes single layer hydrophobic PTFE membrane. It offers broad chemical compatibility, high flow rate and low extractables.



## Benefits

- 100% integrity tested
- FDA food contact compliant
- Thermal bonding
- Non-fiber releasing

## Typical Application

- Sterile air feed
- Chemicals
- Pharmaceuticals
- Solvent

## Fitting Option

- NPT-Male
- NPT-F
- Swagelok
- CPCPLC-Male
- CPCPLC-Female
- Hose Barb
- Stepped Hose Barb
- Triclover

## Toxicity

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

## Capsule Integrity

- Minimum burst pressure: 123.5 psi (8.5 barg)

## Cartridge Integrity Test Specifications

### Low Bio

Pore size	0.2 mm
Subbie Point	≥1.4 barg (IPA/ Water)
Water intrusion	≤0.17 ml/min@2500 mbar/2100cm <sup>2</sup> , 2°C/22°C

### Gen Purpose

Pore size	Bubble Point / IPA
0010 = 0.1µm	1.7 barg
0020 = 0.2µm	1.1 barg
0045 = 0.45µm	0.6 barg
0065 = 0.65µm	0.5 barg
0100 = 1.0µm	0.4 barg
0300 = 3.0µm	0.1 barg
0500 = 5.0µm	0.07 barg



## Construction Materials

- Filter Membrane: ePTFE
- Membrane Media Support: Polypropylene
- Capsule: Polypropylene
- Inner Core: Polypropylene
- Outer Cage: Polypropylene
- Sealing Method: Thermal Bonding

## Sanitization/Sterilization

- Autoclavable

## Filter Area

- 500 cm<sup>2</sup>
- 1000 cm<sup>2</sup>
- 1500 cm<sup>2</sup>
- 2100 cm<sup>2</sup>

## 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, 21 CFR. Materials used to produce filter media and hardware are safe for use in contact with foodstuffs in accordance with EU Directives 10/2011.

## 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

### ORDERING INFORMATION

Product Type	Membrane Type	Membrane pore size	Application	Sterilization	Size	Fittings in / out	Vent/Drain	Revision
CSK = Capsule Filter	PT = PTFE phobic	<b>Application G</b>	G = Gen Purpose	N = Not Sterile	05 = 500 cm <sup>2</sup>	4NM = 1/4" NPT-M	NN = None	0 = Bag label
		0010 = 0.1µm	B = Low Bio		10 = 1000cm <sup>2</sup>	8NM = 3/8" NPT-M		1 = Housing Label
		0020 = 0.2µm			15 = 1500cm <sup>2</sup>	2NM = 1/2" NPT-M		
		0045 = 0.45µm			21 = 2100cm <sup>2</sup>	8NF = 3/8" NPT-F		
		0065 = 0.65µm				4SL = 1/4" Swagelok		
		0100 = 1.0µm				5SL = 5/16" Swagelok		
		0300 = 3.0µm				8SL = 3/8" Swagelok		
		0500 = 5.0µm				4CM = 1/4" CPC-PLC-M		
		<b>Application B</b>				4HB = 3/4" HB		
		0020 = 0.2µm				8HB = 3/8" HB		
						48B = 1/4"-3/8" HB		
						1TC = 1" TC		

# CSK series - Polypropylene membrane Capsule Filters

## Description and use

CSKPP Capsule Filters with depth structure of polypropylene media. It offers broad chemical compatibility, higher dirt holding capacity with high flow rates at low pressure drop, and low extractables. They are available in nominal and absolute rating.



## Benefits

- Wide chemical compatibility
- High dirt hold capacity
- High retention
- Thermal bonding
- Non-fiber releasing

## Typical Application

- Process Water
- Vinegar
- Aqueous solutions
- Beer, Wine and Spirits
- Juice, Soft Drinks, Edible Oils
- Bulk Chemicals
- Pharmaceutical intermediates

## Construction Materials

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

## Sanitization/Sterilization

- Autoclavable
- Hot water

## Toxicity

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

## Capsule Integrity

Minimum burst pressure: 123.5 psi (8.5 barg)

## Filter Area

- 500 cm<sup>2</sup>
- 1000 cm<sup>2</sup>
- 1500 cm<sup>2</sup>
- 2100 cm<sup>2</sup>

## 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.

## 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



### ORDERING INFORMATION

Product Type	Membrane Type	Membrane pore size	Application	Sterilization	Size	Fittings in / out	Vent/Drain	Revision
CSK = Capsule Filter	PP = Polypropylene	<b>Application G</b>	G = Gen Purpose	N = Not Sterile	05 = 500 cm <sup>2</sup>	4NM = 1/4" NPT-M	NN = None	0 = Bag label
		0030 = 0.3µm	P = Premier		10 = 1000cm <sup>2</sup>	8NM = 3/8" NPT-M		1 = Housing Label
		0060 = 0.6µm			15 = 1500cm <sup>2</sup>	2NM = 1/2" NPT-M		
		0100 = 1.0µm			21 = 2100cm <sup>2</sup>	8NF = 3/8" NPT-F		
		0300 = 3.0µm				4SL = 1/4" Swagelok		
		0500 = 5.0µm				5SL = 5/16" Swagelok		
		0700 = 7.0µm				8SL = 3/8" Swagelok		
		1000 = 10.0µm				4CM = 1/4" CPC-PLC-M		
		2000 = 20.0µm				4HB = 3/4" HB		
		3000 = 30.0µm				8HB = 3/8" HB		
		5000 = 50.0µm				48B = 1/4"-3/8" HB		
		<b>Application P</b>				1TC = 1" TC		
		0100 = 1.0µm						
		0300 = 3.0µm						
		0500 = 5.0µm						
		0700 = 7.0µm						
		1000 = 10.0µm						
		2000 = 20.0µm						
		3000 = 30.0µm						
		5000 = 50.0µm						





# CLK series

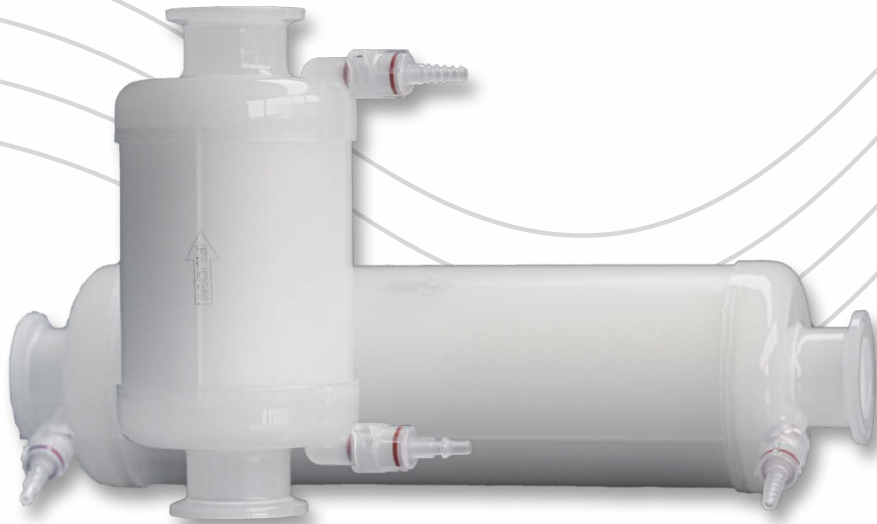
In Line Integrity Test  
Capsule Filter

# CIK series - Asymmetrical PES membrane Bio-burden Reduction Capsule Filters

Capsflow CIK series is family of full size capsule filters with Staubli connection at the vent, which enables in-line integrity test.

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.



## 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 cm<sup>2</sup>
- 5" = 2500 cm<sup>2</sup>
- 10" = 6000 cm<sup>2</sup>
- 20" = 12000 cm<sup>2</sup>
- 30" = 18000 cm<sup>2</sup>
- 40" = 24000 cm<sup>2</sup>

## 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

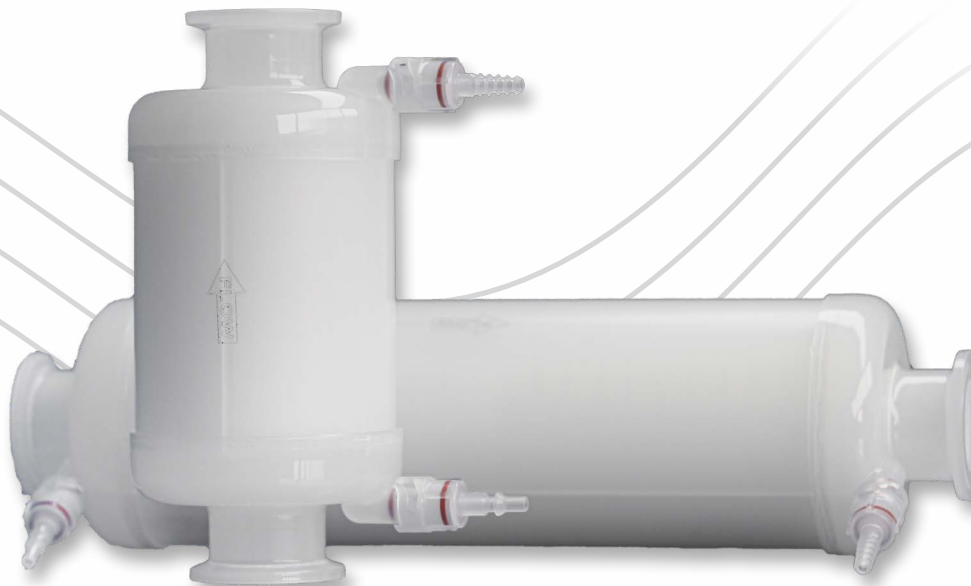
### ORDERING INFORMATION

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

# CIK series - Hydrophobic ePTFE membrane Bio-burden Reduction Capsule Filters

Capsflow CIK series is family of full size capsule filters with Staubli connection at the vent, which enables in-line integrity test.

The PTFE membrane Bio-burden reduction capsule utilizes single layer hydrophobic PTFE membrane. It offers broad chemical compatibility, high flow rate and low extractables.



## Benefits

- 100% integrity tested
- FDA food contact compliant
- Thermal bonding
- Non-fiber releasing

## Typical Application

- Sterile air feed
- Chemicals
- Pharmaceuticals
- Solvent

## Capsule Integrity

- Minimum burst pressure: 123.5 psi (8.5 barg)

## Construction Materials

- Filter Membrane: ePTFE
- Membrane Media Support: Polypropylene
- Capsule: Polypropylene
- Inner Core: Polypropylene
- Outer Cage: Polypropylene
- Sealing Method: Thermal Bonding

## Sanitization/Sterilization

- Autoclavable

## Cartridge Integrity Test Specifications

Pore size	0.2 mm
Subbie Point	≥1. 2 barg (IPA/ Water)
Water intrusion	≤0.37 ml/min @ 2500 mbar/10", 22°C
Diffusive Flow	10 ml/min @ 800 mbar/ 10", 22°C

## Filter Area

Size	Filtration Area
• 2.5" =	1500 cm <sup>2</sup>
• 5" =	2700 cm <sup>2</sup>
• 10" =	6300 cm <sup>2</sup>
• 20" =	12600 cm <sup>2</sup>
• 30" =	18900 cm <sup>2</sup>
• 40" =	25200 cm <sup>2</sup>

## Fitting Option

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

## Vent/Drain Option

- Staubli
- Stepped hose barb



## Toxicity

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

## 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, 21 CFR. Materials used to produce filter media and hardware are safe for use in contact with foodstuffs in accordance with EU Directives 10/2011.

## 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

### ORDERING INFORMATION

Product Type	Membrane Type	Membrane pore size	Application	Sterilization	Size	Fittings In/Out	Vent/Drain	Revision
CIK = Capsule InT Filter	PT = PTFE phobic	0020 = 0.2 µm	B = Low Bio	N = Not Sterile	SS = 2.5"	5TC = 1.5" TC	SS = St/St	0 = Bag label
					LL = 5"	2HB = 1/2" HB	HH = HB/HB	1 = Housing label
					TE = 10"	4HB = 3/4" HB	SH = St/HB	
					TW = 20"	T2B = 1.5" TC/ 1/2" HB	HS = HB/St	
					FO = 40"	T4B = 1.5" TC/ 3/4" HB		
						2BT = 1/2"HB/ 1.5TC		
						2B4 = 1/2"HB/ 3/4"HB		
						4BT = 3/4"HB/ 1.5"TC		
						4B2 = 3/4"HB/ 1/2"HB		

# CIK series - Polypropylene media

## General Application Capsule Filters

CIKPP Capsule Filters with depth structure of polypropylene media. It offers broad chemical compatibility, higher dirt holding capacity with high flow rates at low pressure drop, and low extractables. They are available in nominal and absolute rating.



### Benefits

- Wide chemical compatibility
- High dirt hold capacity
- High retention
- Thermal bonding
- Non-fiber releasing

### Typical Applications

- Process Water
- Vinegar
- Aqueous solutions
- Beer, Wine and Spirits
- Juice, Soft Drinks, Edible Oils
- Bulk Chemicals
- Pharmaceutical intermediates

### Construction Materials

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

### Sanitization/Sterilization

- Autoclavable
- Hot water

### Toxicity

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

### Filter Area

Size		Filtration Area
• 2.5"	=	1480 cm <sup>2</sup>
• 5"	=	2650 cm <sup>2</sup>
• 10"	=	5500 cm <sup>2</sup>
• 20"	=	11000 cm <sup>2</sup>
• 30"	=	16500 cm <sup>2</sup>
• 40"	=	22000 cm <sup>2</sup>

### Capsule Integrity

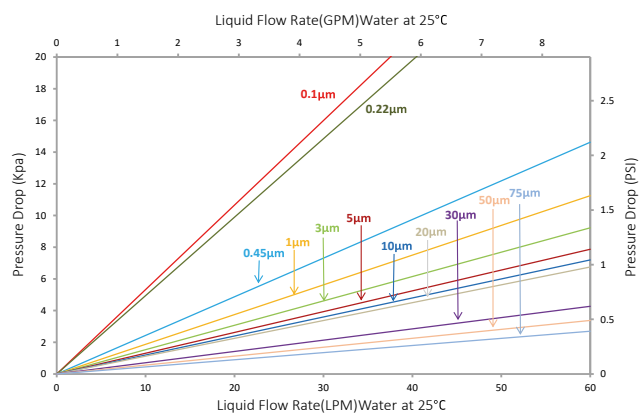
- Minimum burst pressure: 123.5psi (8.5 barg)  
Food Safety Compliance

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

### 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



## ORDERING INFORMATION

Product Type	Membrane Type	Membrane pore size	Application	Sterilization	Size	Fittings	Vent/Drain	Revision
CIK = Capsule InT Filter	PP = Polypropylene	Application G	G = Gen Purpose	N = Not Sterile	SS = 2.5"	5TC = 1.5" TC	SS = St/St	0 = Bag label
		0060 = 0.6 µm	P= Premier		LL = 5"	2HB = 1/2" HB	HH = HB/HB	1 = Housing label
		Application P			TE = 10"	4HB = 3/4" HB	SH = St/HB	
		0100 = 1.0 µm			TW = 20"	T2B = 1.5" TC/ 1/2" HB	HS = HB/St	
		0300 = 3.0 µm			TH = 30"	T4B = 1.5" TC/ 3/4" HB		
		0500 = 5.0 µm			FO = 40"	2BT = 1/2"HB/ 1.5TC		
		0700 = 7.0 µm				2B4 = 1/2"HB/ 3/4"HB		
		1000 = 10.0 µm				4BT = 3/4"HB/ 1.5"TC		
		2000 = 20.0 µm				4B2 = 3/4"HB/ 1/2"HB		
		3000 = 30.0 µm						
5000 = 50.0 µm								





# CXK series

Steaming in Place

Capsule Filter

# CXK series

## Steaming in Place Capsule Filters

### Description and use

The GVS CXK Capsflow Steaming in Place Capsule filters have a standard filter sealed in a robust plastic housing, which remains high-strength and integral at a harsh applications.

Typically Steaming in Place (SIP) sterilization. Capsflow filters are manufactured under criteria of certified Quality management system ISO 9001. All filters are integrity tested during manufacture to meet the set requirements. Materials of construction comply with FDA regulations for food and beverage contact use.



### Benefits

- Purpose-designed for SIP
- Cost-saving
- Easy connection with sanitary flange
- On-line connection to automatic integrity tester Available in multiple choice of media and ratings

### Typical Application

- Sterile filtration of air and liquid in pharmaceutical and biological products
- Sterile air feed

### Construction Materials

- Hydrophobic Filter membrane: PTFE,
- Hydrophilic Filter membrane: PES, NYLON
- Media Support: Polypropylene
- End Caps: Polypropylene
- Inner Core: Polypropylene
- Outer Cage: Polypropylene
- Filter sealing without glue in housing

### Traceability

Each capsule is marked with a unique part number, batch number and serial number to enable full traceability



## Size

- 2.5" (84 mm)
- 5" (159 mm)

## Toxicity

All components meet the specifications for biological safety per USP class VI 121°C for plastic

## 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, 21 CFR. Materials used to produce filter media and hardware are safe for use in contact with food-stuffs in accordance with EU Directives 10/2011. Rohs 2011/65/EU compliance.

## Filtration Area

### CXKPT (PTFE), CXKPS (PES)

- 2.5" : 600 cm<sup>2</sup>

### CXKNY (NYLON)

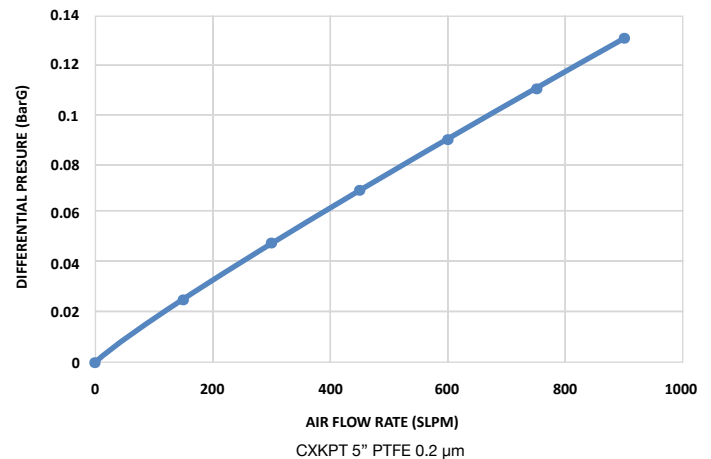
- 2.5" : 700 cm<sup>2</sup>
- 5" : 2100 cm<sup>2</sup>
- 5" : 1700 cm<sup>2</sup>

## Maximum Operating Conditions

CXKPT (PTFE) 0.2 µm:

- Maximum Pressure: 5.8 barg @ 40°C
- Maximum Differential Pressure: 5barg @ 40°C

## Typical Air Flow Rate

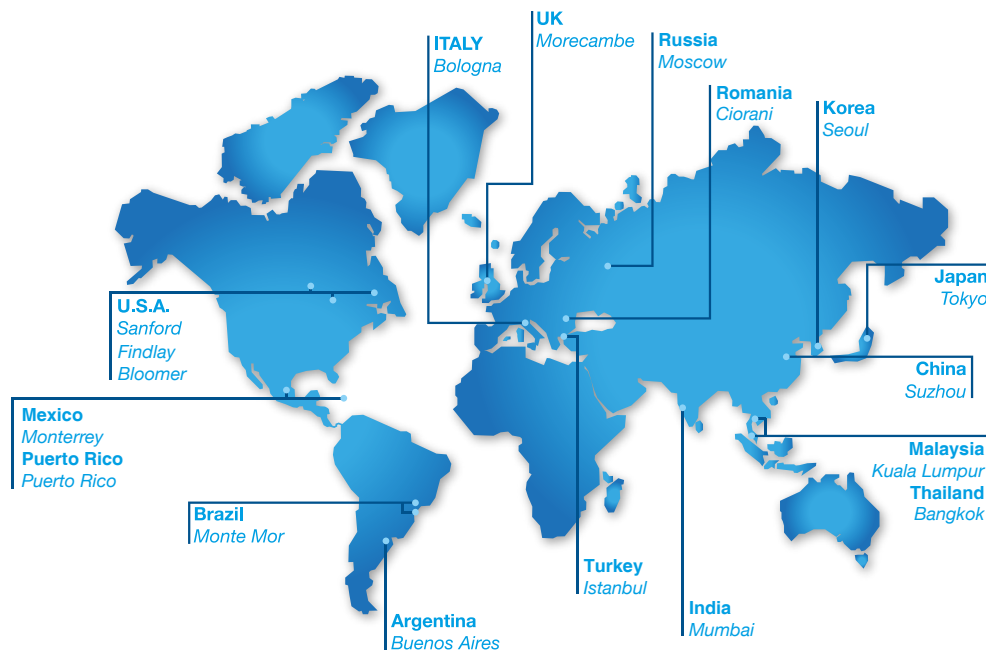


## Performance data

	CXKPT				CXKPS			CXKNY		
Filter membrane	PTFE (Hydrophobic)				PES (Hydrophilic)			NYLON (Hydrophilic)		
Membrane pore size	0.05 µm	0.1 µm	0.2 µm	0.45 µm	0.1 µm	0.21 µm	0.45 µm	0.1 µm	0.21 µm	0.45 µm
Flow rate 2.5" Liquid 1 cP *	2lpm@6psid 3.1lpm@6psid 5.9lpm@6psid				7.5lpm@5psid 5lpm@5psid 5lpm@2.6psid			4lpm@8.5psid 5lpm@5.5psid 5lpm@3.5psid		
Flow rate 5" Liquid 1 cP *	5lpm@6.5psid 5lpm@4psid 5lpm@1.9psid				5lpm@4psid 5lpm@2.2psid 5lpm@1.3psid			5lpm@4.6psid 5lpm@3.4psid 5lpm@2.8psid		
Maximum Operating Parameter Pressures Forward/Reverse (bar)	6.5/3.5	6.5/3.5	6.5/3.5	6.5/3.5	6.5/3.5	6.5/3.5	6.5/3.5	6.5/3.5	6.5/3.5	6.5/3.5
Integrity Test specification Bubble point (bar)	2.7 (IPA)	1.6 (IPA)	1.6 (IPA)	0.5 (IPA)	1.8 (IPA)	3.6 (WATER)	2.6 (WATER)	4.5 (WATER)	3.3 (WATER)	1.9 (WATER)
N. SiP sterilization cycles	100 cycles @126 °C				50 cycles @126 °C			50 cycles @126 °C		

\* CXKPT (PTFE - Hydrophobic) IPA Wetted membrane

ORDERING INFORMATION								
Product Type	Membrane Type	Membrane pore size	Application	Sterilization	Size	Fittings in / out	Vent/Drain	Revision
CXK = Capsule SIP Filter	PT = PTFE phobic	0005 = 0.05 µm (PT only)	X = Steaming in place	N = Not Sterile	SS = 2.5"	5TC = 1.5" TC	SS = St/St	0 = Bag label
	PT = PES	0010 = 0.1 µm			LL = 5"		HH = HB/HB	
	NY = NYLON	0020 = 0.2 µm					SH = St/HB	
							HS = HB/St	



## WORLDWIDE

### EUROPE

Italy Office  
Headquarters  
GVS S.p.A.  
Via Roma 50  
40069 Zola Predosa (BO) - Italy  
Tel. +39 051 6176311  
gvs@gvs.com

Russia  
GVS Russia LLC.  
Profsoyuznaya Street, 25-A, office 102  
117418, Moscow  
Russian Federation (Russia)  
Tel. +7 495 0045077  
gvsrussia@gvs.com

United Kingdom  
GVS Filter Technology UK  
Vickers Industrial Estate  
Mellishaw Lane, Morecambe  
Lancashire LA3 3EN  
Tel. +44 (0) 1524 847600  
gvsuk@gvs.com

Romania  
GVS Microfiltrazione srl  
Sat Ciorani de Sus 1E - Comuna Ciorani  
Prahova România  
Tel. (+40) 244 463044  
gvsro@gvs.com

Turkey  
GVS Türkiye  
Nidakule Merdivenköy Mahallesi  
Bora Sokak No:1 Kat:7 - 34732 Istanbul  
Tel. +90 216 504 47 67  
gvsurkey@gvs.com

### ASIA

China  
GVS Technology (Suzhou) Co., Ltd.  
Fengqiao Civil-Run Sci-Tech Park,  
602 Changjiang Road, S.N.D.  
Suzhou, China 215129  
Tel. +86 512 6661 9880  
gvschina@gvs.com

GVS YIBO Medical Devices Co. Ltd.  
17, Zhongshan East - Yuyao city,  
315403 Zhejiang Province, China  
Tel. +86 574 6257 5697

Japan  
GVS Japan K.K.  
KKD Building 4F, 7-10-12 Nishishinjuku  
Shinjuku-ku, Tokyo 160-0023 Japan  
Tel. +81 3 5937 1447  
gvsjapan@gvs.com

Korea  
GVS Korea Ltd  
#315 Bricks Tower  
368 Gyungchun-ro(Gaun-dong),  
Namyangju-si, Gyunggi-do,  
Tel: +82 31 563 9873  
gvsukorea@gvs.com

India  
GVS Filter India Pvt Ltd  
Unit No 35 & 36 on First Floor  
Ratna Jyot Industrial Premises Irla Lane,  
Irla Vile Parle, Mumbai 400056, India  
gvsindia@gvs.com

Malaysia  
GVS Filtration Sdn.Bhd  
Lot No 10F-2B, 10th Floor, Tower 5 @ PFCC  
Jalan Puteri 1/2, Bandar Puteri  
47100 Puchong, Selangor, Malaysia  
Tel: +60 3 7800 0062  
gvsmalaysia@gvs.com

Thailand  
GVS Thailand  
88 Ratchadaphisek Rd,  
Office 10E03 - Khlong Toei,  
Bangkok 10110  
gvs thailand@gvs.com

### AMERICA

U.S.A.  
GVS North America  
63 Community Drive  
Sanford, ME 04073 - USA  
Tel. +1 866 7361250  
gvsusa@gvs.com

GVS Filtration Inc.  
2150 Industrial Drive  
Findlay, OH. 45840 - USA  
Tel. +1.419.423.9040  
gvsfiltration@gvs.com

2200 W 20th Avenue  
Bloomer, WI 54724 - USA  
Tel. +1.715.568.5944  
gvsfiltration@gvs.com

Puerto Rico  
GVS Puerto Rico, LLC  
98 Carr 194 - Fajardo,  
Puerto Rico, 00738-2988, USA  
Tel. +1.787.355.4100  
gvsuertorico@gvs.com

México  
GVS Filter Technology de Mexico  
Universal No. 550, Vynmsa Aeropuerto Apodaca  
Industrial Park, Ciudad Apodaca, Nuevo León, C.P.  
66626 - México  
Tel. +52 81 2282 9003  
gvs mex@gvs.com

Argentina  
GVS Argentina S.A.  
Francisco Acuña de Figueroa 719 Piso:11 Of: 57  
1416 Buenos Aires - Argentina  
Tel. +54 11 48614750  
gvsarg@gvs.com

Brazil  
GVS do Brasil Ltda.  
Rodovia Conego Cyriaco Scaranello Pires 251  
Jardim Chapadão, CEP 13193-580  
Monte Mor (SP) - Brasil  
Tel. +55 19 38797200  
gvs@gvs.com.br

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