

The *BioPro KS* cartridge filters are designed for protecting your critical and high value downstream systems.

These help in significant reduction of bioburden and complete removal of particulate contamination and are ideal for applications which do not require sterilization but where reduction in bio load in the process fluid is the objective.

These improve the process efficiency by reducing filter sizing and prolonging life of expensive sterilizing filters.

## Special Features

- Validated for high bio-burden reduction
- High flow rates
- High throughput
- Low protein binding
- No media migrating
- Biologically inert
- Easy installation

## Applications

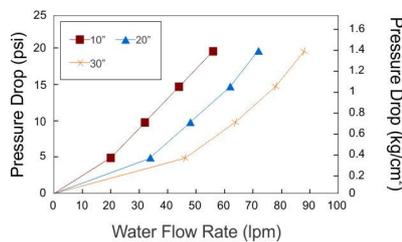
- Clarification of cell harvest
- Buffer filtration
- In process protein filtration
- Prefiltration to sterile filtration
- Prefiltration to virus filtration

## Ordering Information

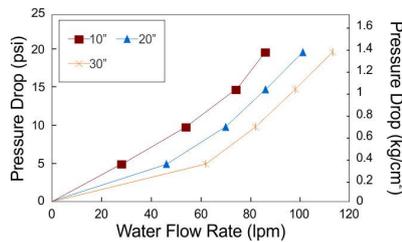


## Water Flow Rates

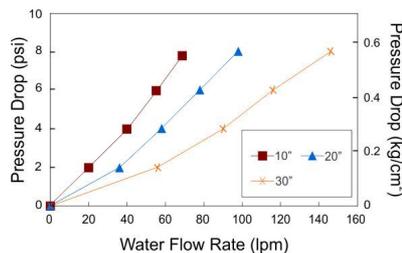
### 0.1µm BioPro KS



### 0.2µm BioPro KS



### 0.45µm BioPro KS



Complies with  
USFDA 21 CFR 211.72

Meets and Exceeds  
USFDA 21 CFR 177.1520

## Specifications

### Integrity Test Specifications (water wetted)

**0.1µm:** ≥ 40psi

**0.2µm:** ≥ 30psi

### Bacterial Retention

**0.1µm:** LRV > 6 for *Brevundimonas diminuta* per cm<sup>2</sup> of filter area

**0.2µm:** LRV > 5 for *Brevundimonas diminuta* per cm<sup>2</sup> of filter area

### Material of Construction

Housing – Polypropylene

Filter – Polyethersulfone

### Maximum Differential Pressure

≤ 3.5 Kg/cm<sup>2</sup> @ 30° C

### Maximum Operating Temperature

80° C @ < 2 Kg/cm<sup>2</sup>

### Sterilization

Autoclave	Autoclavable / In-line steam sterilizable at 121°C for 30 minutes, 30 cycles
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### Oxidizable Matter

Passes test as per USP <1231>

### Extractables

Passes NVR test as per USP <661>

### Bacterial Endotoxin

Aqueous extracts exhibit < 0.25 EU/ml as established by LAL Test as per USP <85>

### Fiber Release

Complies with USFDA CFR Title 21, 210.3 (b) (6)

### Particle Release

The filtrate complies with USP <788> test for particulate matter in injections

### Biosafety

**Toxicity:** Passes Bioreactivity test, *In-vivo*, as per USP <88> for Class VI plastics

**Cytotoxicity:** Passes Biological Reactivity Tests, *In Vitro*, USP <87> for Cytotoxicity

Type	Size		Pore Size		Adaptor		Elastomer		Sterility		Pack Size		
	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code		
<i>BioPro KS</i>	CBKS	5"	53	0.1µm	36	7P	A0	Silicone	SS	Non Sterile	1	1	01
		10"	54	0.2µm	01	7P Without Fin	A1	Viton	SV				
		20"	55	0.45µm	02	28 with fin	C0	EPDM	SE				
		30"	56			'0'	D0	FEP Encapsulated Viton	FV*				
<b>*FV is available in adaptor code A0 (7P) only</b>													
<b>Example :</b>													
	CBKS		56		01		A0		SS		1		01