

AseptiCap KL/KS- 1", 2", 5", 8"

**Microbially Validated
as per ASTM F 838-05**

**Complies with
USFDA 21 CFR 211.72**

**Meets and Exceeds
USFDA 21 CFR 177.1520**

Polyethersulfone membrane capsule filters are self contained, ready to use, disposable filtration devices that contain a mini cartridge filter element sealed inside a polypropylene housing. These offer highest packing density of the membrane resulting in a very compact capsule offering long service life.

Radiation Sterilizable: *AseptiCap KL/KS-*

Autoclavable: *AseptiCap KL/KS*

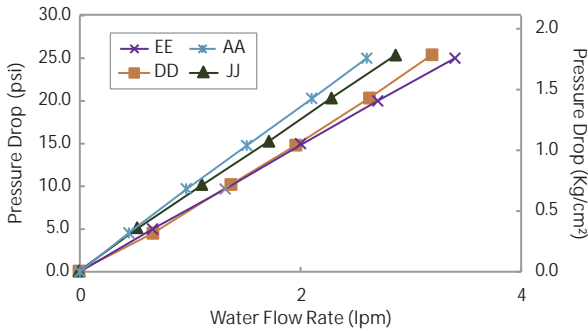


Specifications

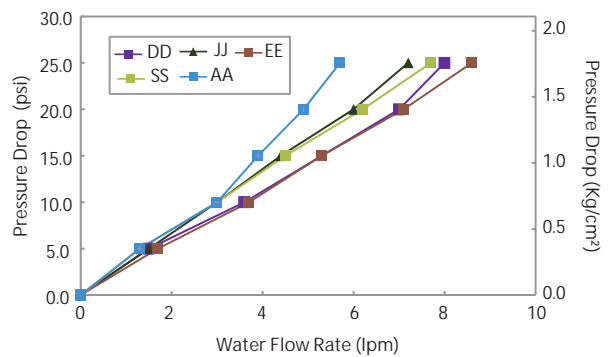
Construction				
Final Filter Pore Size	0.1 µm	0.2 µm	0.45 µm	
Prefilter Pore Size (in case of <i>AseptiCap KS</i>)	0.45 µm	0.8 µm, 0.65 µm, 0.45 µm		0.8 µm, 0.65 µm
Membrane	Hydrophilic PES			
Support Layers	Polyester			
Body and Core	Polypropylene			
Integrity Testing/Retention				
Bubble Point	≥ 31 psi (2.18 Kg/cm ²) with 50% IPA/Water Solution	≥ 50 psi (3.51 Kg/cm ²) with Water	≥ 30 psi (2.11 Kg/cm ²) with Water	
Microbial Retention	LRV >7 for <i>Acholeplasma laidlawii</i> (ATCC 23206) per cm ²	LRV >7 for <i>Brevundimonas diminuta</i> (ATCC 19146) per cm ²	LRV >7 for <i>Serratia marcescens</i> (ATCC 14756) per cm ²	
Size				
Size	1"	2"	5"	8"
Effective Filtration Area (Nominal)	250 cm ²	500 cm ²	1000 cm ²	2000 cm ²
Vent and Drain	1/4" Hose Barb with double platinum cured Silicone 'O' rings for 2", 5" and 8"			
Operational				
Max. Operating Temperature	0.1 µm	80 °C @ ≤ 15 psi (1 Kg/cm ²)		
	0.2 µm	80 °C @ ≤ 30 psi (2 Kg/cm ²)		
Max. Differential Pressure	60 psi (4 Kg/cm ²) @ 30 °C			
Sterilization	By Irradiation	<i>AseptiCap KL/KS-</i> : Gamma Irradiatable up to 50 kGy		
	By Gas	Sterilizable by Ethylene Oxide		
	By Autoclave	Autoclavable at 121 °C for 30minutes, 1 cycle after gamma irradiation. Can not be in-line steam sterilized		
Shelf Life	2 years after gamma sterilization 3 years after Ethylene Oxide sterilization			
pH Compatibility	Compatible with pH range of 1-10			

Water Flow Rates

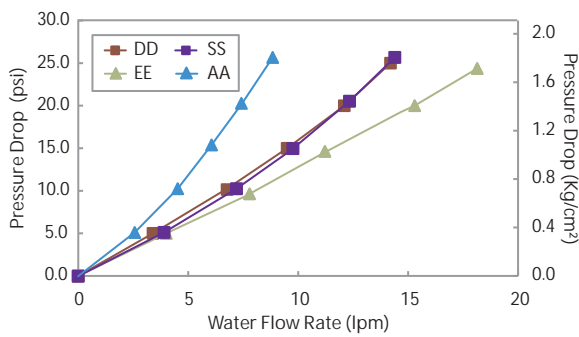
0.2 μm AseptiCap KS- , 1" Capsule Filters



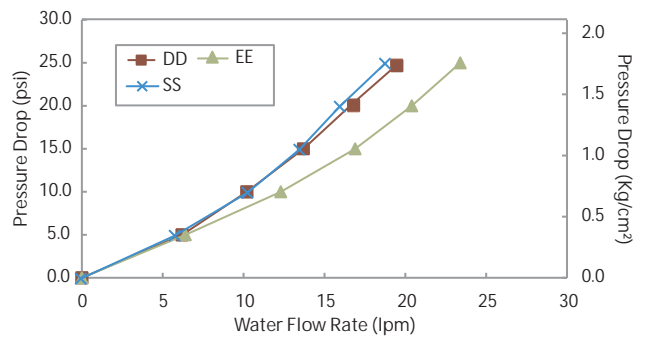
0.2 μm AseptiCap KS- , 2" Capsule Filters



0.2 μm AseptiCap KS- , 5" Capsule Filters



0.2 μm AseptiCap KS- , 8" Capsule Filters



End Connection Type:

A: ¼" Stepped Hose Barb D: ½" Hose Barb E: 1½" Sanitary Flange J: Quick Connector S: ¾" Sanitary Flange

Ordering Information

AseptiCap KL/KS and AseptiCap KL/KS -

Type		Size		Pore Size		Inlet/Outlet		Radiation Sterilizable		Bell		Sterility		Pack Size	
	Code		Code		Code		Code		Code		Code		Code		Code
AseptiCap KL (Single Layer)	DKLX	1"	51	0.1 μm*	36	¼" SHB	A	Yes	R	Yes	B	Non Sterile	1	1	01
AseptiCap KS (0.45 μm Upstream)	DKSX	2"	52	0.2 μm	01	¼" MNPT	B	No	X	No Bell	X	EO Sterile	2		
AseptiCap KS (0.65 μm Upstream)	DKS3	5"	53	0.45 μm	02	½" MNPT	C					Gamma Sterile	3		
AseptiCap KS (0.8 μm Upstream)	DKS5	8"	57			½" Hose Barb	D								
						1½" Sanitary Flange	E								
						¾" Sanitary Flange	S								
						Quick Connector	J								
						Single Step ½" Hose Barb	Q								
Example:															
	DKSX		57		36		DD		R		X		1		01

* Note: 0.1 μm is available in AseptiCap KS and AseptiCap KS- only with 0.45 μm upstream

For End Connection, bell availability and dimensions with different sizes refer Page no. 59.

AseptiCap KS- 10", 20", 30"

These are large disposable Polyethersulfone membrane capsule filters for high value biopharma manufacturing processes, providing a unique combination of high throughputs and low hold up volumes. These capsule filters offer serial filtration incorporating a large pore size upstream membrane to protect the downstream membrane and do away with the time and expense associated with assembling, cleaning and validating stainless steel housings.

Radiation Sterilizable: *AseptiCap KL/KS-*

Autoclavable: *AseptiCap KL/KS*



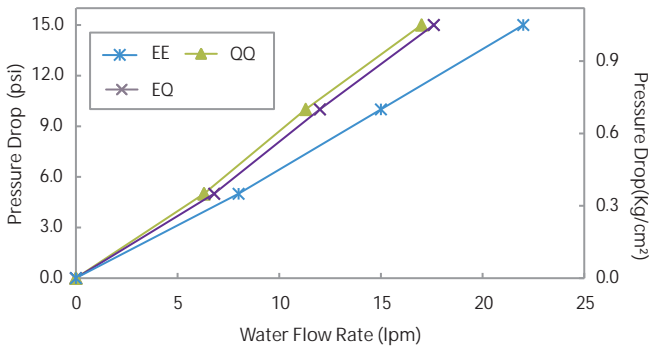
Microbiologically Validated as per ASTM F 838-05
Complies with USFDA 21 CFR 211.72
Meets and Exceeds USFDA 21 CFR 177.1520

Specifications

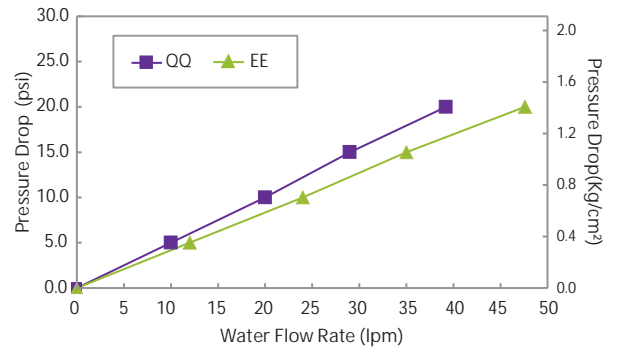
Construction			
Final Filter Pore Size	0.1 µm	0.2 µm	0.45 µm
Prefilter Pore Size	0.45 µm	0.8 µm, 0.65 µm, 0.45 µm	0.8 µm, 0.65 µm
Membrane	Hydrophilic PES		
Support Layers	Polyester		
Body and Core	Polypropylene		
Integrity Testing/Retention			
Bubble Point	≥ 31 psi (2.18 Kg/cm ²) with 50% IPA/Water Solution	≥ 50 psi (3.51 Kg/cm ²) with Water	≥ 30 psi (2.11 Kg/cm ²) with Water
Max. Air Diffusion Flows for 10" Capsule Filters	≤ 29 ml/min @ 50 psi (3.51 Kg/cm ²) with Water	≤ 30 ml/min @ 37 psi (2.6 Kg/cm ²) with Water	≤ 35 ml/min @ 22 psi (1.54 Kg/cm ²) with Water
Microbial Retention	LRV >7 for <i>Acholeplasma laidlawii</i> (ATCC 23206) per cm ²	LRV >7 for <i>Brevundimonas diminuta</i> (ATCC 19146) per cm ²	LRV >7 for <i>Serratia marcescens</i> (ATCC 14756) per cm ²
Size			
Size	10"	20"	30"
Effective Filtration Area (Nominal)	6000 cm ²	12000 cm ²	18000 cm ²
Vent and Drain	1/4" Hose Barb with double platinum cured Silicone 'O' rings		
Operational			
Max. Operating Temperature	0.1 µm	80 °C @ ≤ 15 psi (1 Kg/cm ²)	
	0.2 µm	80 °C @ ≤ 30 psi (2 Kg/cm ²)	
Max. Differential Pressure	60 psi (4 Kg/cm ²) @ 30 °C		
Sterilization	By Irradiation	<i>AseptiCap KL/KS-</i> : Gamma Irradiatable up to 50 kGy	
	By Gas	Sterilizable by Ethylene Oxide	
	By Autoclave	Autoclavable at 121°C for 30 minutes, 1 cycle after gamma irradiation. Can not be in-line steam sterilized	
Shelf Life	2 years after gamma sterilization 3 years after Ethylene Oxide sterilization		
pH Compatibility	Compatible with pH range of 1-10		

Water Flow Rates

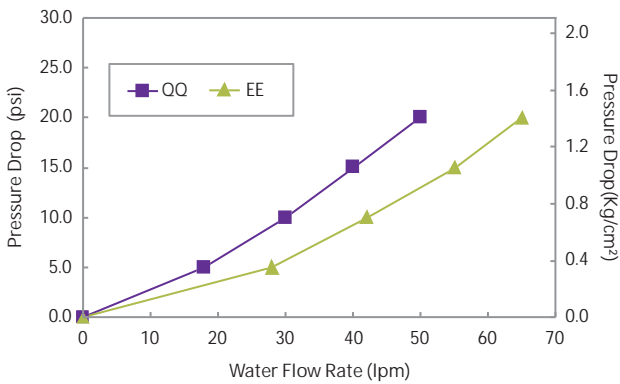
0.1 μm AseptiCap KS- , 10" Large Capsule Filters



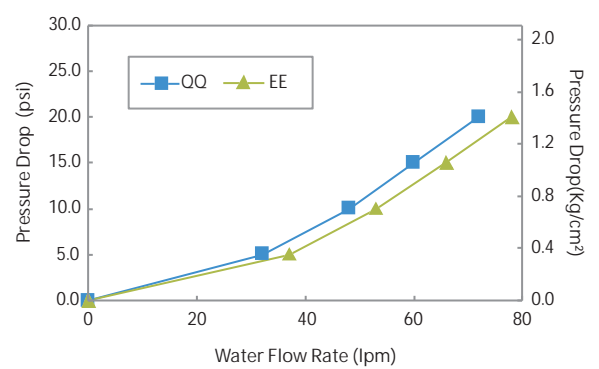
0.2 μm AseptiCap KS- , 10" Large Capsule Filters



0.2 μm AseptiCap KS- , 20" Large Capsule Filters



0.2 μm AseptiCap KS- , 30" Large Capsule Filters



End Connection Type: Q: Single Step 1/2" Hose Barb E: 1/2" Sanitary Flange EQ: 1/2" Sanitary Flange Inlet Single Step 1/2" Hose Barb Outlet

Ordering Information

AseptiCap KS and AseptiCap KS-

Type		Size		Pore Size		Inlet/Outlet		Radiation Sterilizable		Inline / T-line		Sterility		Pack Size	
	Code		Code		Code		Code		Code		Code		Code		Code
AseptiCap KS (0.45 μm Upstream)	LKSX	10"	54	0.1 μm *	36	1 1/2" Sanitary Flange	E	Yes	R	Inline	X	Non Sterile	1	1	01
AseptiCap KS (0.65 μm Upstream)	LKS3	20"	55	0.2 μm	01	Single Step 1/2" Hose Barb	Q	No	X	T-line	T	EO Sterile	2		
AseptiCap KS (0.8 μm Upstream)	LKS5	30"	56	0.45 μm	02									Gamma Sterile	3

Example: LKSX 54 02 EE R T 1 01

* Note: 0.1 μm is available in AseptiCap KS and AseptiCap KS- only with 0.45 μm upstream

For End Connection availability and dimensions with different sizes refer Page no. 59.