

ZenPure

SKV Series PES Filter Capsules (PES/PE Construction)

Pharmaceutical Capsule filter

The PureFlo® SKV Series PES filter capsule with all-polyethylene (PE) construction provides excellent chemical compatibility and superior flow per unit area as compared to other membrane capsules. These PureFlo PES filter capsules with Polyethylene construction have been specially **designed to be gamma sterilized** for biopharmaceutical applications. The PES and the PE construction are naturally Gamma radiation staple. The hydrophilic PES membrane does not require pre-wetting agents, thereby eliminating a potential source of contamination. The PES membrane is a low protein-binding media.

The capsules were designed with built-in bleed valves for simple and efficient evacuation of air and liquid. The units are used for filtration of small to medium volumes used in production, laboratory and pilot runs. No adhesives, binders, or surfactants are used in the manufacturing process of these capsules. They are rinsed with pyrogenfree water to reduce extractables and downtime. All filter capsules are 100% integrity-tested to ensure filter performance each and every time out of the package. PureFlo SKV Series PES filter capsules are well-suited for pharmaceutical applications where gamma sterilization is needed.



Applications					
Buffers and Media	Fermentation Broths				
Product Sterilization	SVP (Small Volume Parenterals)				
Bio Bags	Pharmaceuticals				
Vaccines	Biologics				
Antibiotics	Scale up processing				
Water	Serums				

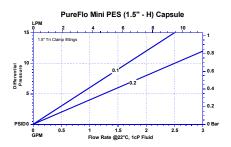
Specifications

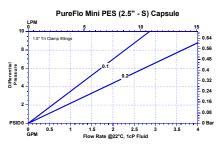
Materials of Construction:	Media: PES (Polyethersulfone) Media Supports: High Density Polyethylene (HDPE) Cage, Core, End Caps: HDPE Valve O-Rings: Silicon (Standard); Sealing: Thermally welded			
Fitting Connections:	See ordering guide for the availability. Any inlet/outlet combinations. (Custom adaptors available upon request)			
Nominal Dimensions:	Lengths: 1.5 in (128 mm), 2.5 in (155 mm),5.0 in (210mm), 7.5 in (270mm), 10 in (340mm) Diameter: 2.75 in (70 mm)			
Effective Filtration Area:	1.5in: 0.77 ft ² (720 cm ²), 2.5in: 1.48 ft ² (1380 cm ²), 5.0in: 2.8 ft ² (2600 cm ²), 7.5in: 4.3ft ² (3980cm ²), 10in: 5.6 ft ² (5200 cm ²)			
Operating Conditions:	Maximum Forward Differential Pressure: Liquid: 5.5 bar (80psi) at 77°F/25°C Gas: 4.1 bar (60psi) at 77°F/25°C Minimum Burst Pressure: 8.3 bar (120psi) at 77°F/25°C Maximum Forward Differential Pressure: 5 bar (72psi) at 68°F/20°C Maximum Reverse Differential Pressure: 3.0 bar (44psi) at 68°F/20°C Maximum Operating Temperature: 140°F/60°C			
Regulatory Compliance:	The filters are constructed with polypropylene resins and filtration media in compliance with 21CFR Part 177 of the US Code of Federal Regulations and USP Class VI Biological Test for Plastic.			

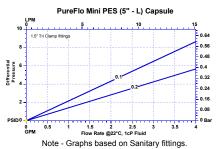
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Specifications (cont.)

Bacterial Retention:

Complete retention of $> 10^7$ organisms/cm² of *Brevundimonas diminuta* in accordance with the current HIMA challenge methodology (ASTM F838-83). Validation Guide upon request.

Sanitizable:

The filters can be Gamma sterilized up to 45kGy. The filters can also be chemically sanitized in situ using common sanitizing agents or hot water at 90°C for a limited time (dependent on time and temperature). Not Autoclavable.

Water Bubble Point Specification:

0.1um: 23psi, 0.16 MPa (IPA) 0.2um: 50psi, 0.34 MPa

Bacterial Endotoxin:

Effluent is non-pyrogenic per USP Bacterial Endotoxin (0.25 EU/ml), determined using Limulus Amebocyte Lysate (LAL) Test.

PureFlo SKV Series PES Filter Capsule (Pharmaceutical grade) Ordering Guide

PureFlo Capsule Filters		Pore size (Micron)	Internal Filter Length	Input Fitting	Output Fitting	Op	otion
SKV	S = PES	004 = 0.04	= 1.5"	1H = 1/8" Hose Barbs	1H = 1/8" Hose Barbs	Blank = Polypro	O-Ring for Quick
70mm Diameter Capsule with Bleed Valve		010 = 0.1	S = 2.5"	1NF = 1/8" FNPT	1NF = 1/8" FNPT	construction	-OE = O-mig EPDM
		020 = 0.2	L = 5"	1Q = 1/8" Male Quick Coupling with Metal Latch	1Q = 1/8" Male Quick Coupling with Metal Latch	-E = Polyethylene shell	-ON = O-ring Nitrile
		045 = 0.45E	= 7.5"	1QF = 1/8" Female Quick Coupling with Metal Latch	1QF = 1/8" Female Quick Coupling with Metal Latch	and HDPE media support for	-OV = O-ring Viton
		065 = 0.65	= 10"	2H = 1/4" Hose Barbs	2H = 1/4" Hose Barbs	gamma sterilization	Blank = O-ring Silicon
		080 = 0.8 120 = 1.2		2N = 1/4" MNPT	2N = 1/4" MNPT	-GP = Gamma stable	(Standard)
				2NF = 1/4" FNPT	2NF = 1/4" FNPT	polypropylene shell	-G(pore Size) = Glass Fib
				2Q = 1/4" Male Quick Coupling for Metal Latch	2Q = 1/4" Male Quick Coupling for Metal Latch	-FB = Filling Bell*	PreFilter
				2QF = 1/4" Female Quick Coupling with Metal Latch	2QF = 1/4" Female Quick Coupling with Metal Latch	-FC = Filling Bell with Cap*	-P(pore Size) = PolyPro
				2QFP = 1/4" Female Quick Coupling w/Plastic Latch	2QFP = 1/4" Female Quick Coupling w/Plastic Latch	-ETO = Ethylene oxide	Media PreFilter
				2QP = 1/4" Male Quick Coupling for Plastic Latch	2QP = 1/4" Male Quick Coupling for Plastic Latch	sterilization	-S(pore Size) = PES
				3H = 3/8" Hose Barb	3H = 3/8" Hose Barb	-N= No vent or drain	PreFilter
				3NF = 3/8" FNPT	3NF = 3/8" FNPT	fittings	
				4H = 1/2" Hose Barb	4H = 1/2" Hose Barb	-NI = No vent or drain	
				4N = 1/2" MNPT	4N = 1/2" MNPT	inlet fitting	Silicon O-Rings for Blee
				4QP = 1/2" Male Quick Coupling for Plastic latch	4QP = 1/2" Male Quick Coupling for Plastic latch	-NO = No vent or drain	Valve and Quick Couplin
				MT = 1/2" Tri-clamps	MT = 1/2" Tri-clamps	Outlet fitting	fittings
				TC = 1-1/2" Tri-clamp	TC = 1-1/2" Tri-clamp	I	
		Example - P	ureFlo SKV	Series Capsule, PES , 2.5" internal filter, 0.2 micron, with	1.5" Tri-Clamp fittings I/O, w/PE Construction, would be Si	KVS020STCTC-E	
to: Ouick Couplings are r	solded on Female O	rick Counting with	Plastic latch will	he threaded on Compatible with CPC (Colder) LinkTech and others	* - 2H or 3H with filling hell only		



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