

ZenPure

SZV Series Nylon Capsules

Pharmaceutical Grade

The PureFlo® SZV Series Nylon filter capsule is designed for improved wetability in processes which require critical integrity validation testing. The unit provides excellent compatibility and superior flow per unit area as compared to other membrane capsules. The PureFlo® Nylon filter capsules have been specially designed for sterilizing in biopharmaceutical applications where bacterial retention is required. The hydrophilic nylon membrane does not require pre-wetting agents, thereby eliminating a potential source of contamination. The nylon membrane is a low protein-binding media to improve your process.

The capsules were specifically designed with an easy-to -wet-out structure of nylon membrane, polyester (PET) support and internal nylon end caps. The units have built-in bleed valves for simple and efficient evacuation of air and liquid. The units are used for filtration of small to medium volumes of fluid for processing in production, laboratory and pilot runs. No adhesives, binders, or surfactants are used in the manufacturing process of these capsules. They are rinsed with pyrogen -free water to reduce extractables and speed production. All filter capsules are 100% integrity-tested to ensure filter performance each and every time out of the package. The capsule can be ordered pre-sterilized.



Applications					
Buffers and Media	Fermentation Broths				
Product Sterilization	SVP (Small Volume Parenterals)				
BioBags	Pharmaceuticals				
Vaccines	Biologics				
Antibiotics	Scale-up Processing				
Water	Serums				

Specifications

Regulatory Compliance:

ZenPure

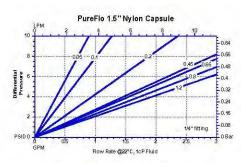
Materials of Construction:	Membrane: Nylon 6,6 Membrane Supports: PET (Polyester) Shell, Cage, Core: Polypropylene ; End Caps: Nylon O-Rings: Silicon (Standard) Push to Connect Fitting: Acetal-body, EPDM-O-Ring, 304 SS Grip Ring					
Fitting Connections:	See ordering guide for the availability. Any inlet/outlet combinations. (Custom adaptors available upon request)					
Nominal Dimensions:	Lengths: 1.5 in (38 mm), 2.5 in (63.5 mm), 5.0 in (127 mm), 7.5 in (191 mm), 10 in (254 mm) Diameter: 2.88 in (73 mm)					
Effective Filtration Area:	Filtration Area: 1.5 in: 0.74 ft^2 (690 cm ²), 2.5 in: 1.4 ft^2 (1300 cm ²), 5.0 in: 2.6 ft^2 (2420 cm ²), 7.5 in: 4.0 ft^2 (3720 cm ²), 10 in: 5.3 ft^2 (4920 cm ²)					
Operating Conditions:	Maximum Working Pressure: Liquid: 5.5 bar (80 psi) at 25 °C Gas: 4.1 bar (59.5 psi) at 25 °C Minimum Burst Pressure: 8.3 bar (120 psi) at 25 °C Maximum Forward Differential Pressure: 5 bar (72.5 psi) at 20 °C Maximum Reverse Differential Pressure: 3.0 bar (43.5 psi) at 20°C Maximum Operating Temperature: PP & Gamma PP: 80 °C HDPE: 60 °C					

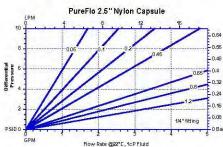
The filters are constructed with polypropylene resins and filtration media in compliance with 21 CFR Part 177 of the US Code of Federal

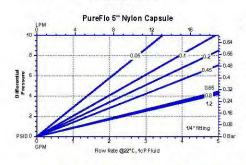
Regulations and USP Class VI Biological Test for Plastic.

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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 available upon request.

Autoclavable & Sanitizable:

Capsules can be autoclaved 3 times at 125 °C (257 °F) for 30 minutes or chemically sanitized in situ using common sanitizing agents or hot water at 90 °C (194 °F) for a limited time (dependent on time and temperature). Capsules must not be in situ steam-sterilized.

Water Bubble Point Specification:

0.1 μm: 23 psi (0.16 MPa) in IPA 0.2 μm: 50 psi (0.35 MPa)

Bacterial Endotoxin:

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

PureFlo SZV Series Nylon Capsule (Pharmaceutical grade) Ordering Guide

PureFlo Capsule Filters Filter Medi		Pore size (Micron)	Internal Filter Length	Input Fitting	Output Fitting	Options	
1		Nylon (N)	H = 1.5	IH = 1/8" Hose Barbs	1H = 1/8" Hose Barbs	Shell Material	O-Rings
	N = Nylon with PET Supports			1NF = 1/8" FNPT 1QF = 1/8" Female Quick Coupling with Metal Latch	1NF = 1/8" FNPT 1QF = 1/8" Female Quick Coupling with Metal Latch	Blank = Polypro construction	Blank = O-ring Silicone (Standard)
PP Shell & Nylon end- caps		020 = 0.20 045 = 0.45		2H = 1/4" Hose Barbs 2N = 1/4" MNPT	2H = 1/4" Hose Barbs 2N = 1/4" MNPT	-GP = Gamma stable polypropylene shell	-OE = O-ring EPDM -ON = O-ring Nitrile
Polyester support		065 = 0.65	A 390	2NF = 1/4" FNPT	2NF = 1/4" FNPT	-NY = Nylon Shell	-OV = O-ring Viton
Pulyester support		080 = 0.80		2Q = 1/4" Male Quick Coupling for Metal Latch	2Q = 1/4" Male Quick Coupling for Metal Latch	Filling Bells	Prefilter (add before
Polypropylene Cage &		120 = 1.20		2QF = 1/4" Female Quick Coupling w/ Metal Latch	2QF = 1/4" Female Quick Coupling w/ Metal Latch	-FB = Filling Bell*	Filter Media in part#
Core	2000 - 2000		2QFP = 1/4" Female Quick Coupling w/ Plastic Latch	2QFP = 1/4" Female Quick Coupling w/ Plastic Latch	-FC = Filling Bell w/Cap*	G(pore Size) = Glass	
				2QP = 1/4" Male Quick Coupling for Plastic Latch	2QP = 1/4" Male Quick Coupling for Plastic Latch	Sterilization	Fiber PreFilter
Internal Silicone O-ring 70mm Diameter				2P= 1/4" Push to Connect 2V = 1/4" Walther Quick Connect 3H = 3/8" Hose Barb	2P= 1/4" Push to Connect 2V = 1/4" Walther Quick Connect 3H = 3/8" Hose Barb	-ETO = Ethylene oxide sterilization	P(pore Size) = PolyPro Media PreFilter S(pore Size) = PES
Capsule with Bleed				3NF = 3/8" FNPT	3NF = 3/8" FNPT	Vent & Drain	PreFilter
Valve				4H = 1/2" Hose Barb 4N = 1/2" MNPT 4QP = 1/2" Male Quick Coupling for Plastic latch MT = 1/2" Tri-clamps	4H = 1/2" Hose Barb 4N = 1/2" MMPT 4QP = 1/2" Male Quick Coupling for Plastic latch MT = 1/2" Tri-clamps	-N= No vent or drain fittings -NI = No vent or drain inlet fitting -NO = No vent or drain	
			1	TC = 1-1/2" Tri-clamp	TC = 1-1/2" Tri-clamp	Outlet fitting	



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Certified

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