

ZenPure

SZL Series Nylon Capsules

Pharmaceutical Grade

The PureFlo® SZL 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 luer lock plugs for the vent & drain 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 presterilized.

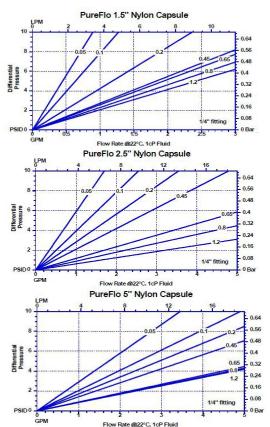


Applications								
Buffers and Media	Fermentation Broths							
Product Sterilization	SVP (Small Volume							
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BioBags Pharmaceution Vaccines Biologics	cais							
Antibiotics Scale-up	Processing							
Water Serums	11000001119							

Specifications

Materials of Construction: Membrane	Membrane: Nylon 6,6 Supports: PET (Polyester)					
. Temprane	Shell, Cage, Core: Polypropylene ; End Caps: Nylon					
	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:	1.5 in: 0.74 ft ² (690 cm ²), 2.5 in: 1.4 ft ² (1300 cm ²),					
Lifective Filtration Area.	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 22 °C					
	Gas: 4.1 bar (59.5 psi) at 22 °C					
	Minimum Burst Pressure: 8.3 bar (120 psi) at 25 °C					
	Maximum Forward Differential Pressure: 5 bar (72.5 psi) at 22 °C					
	Maximum Reverse Differential Pressure: 3.0 bar (43.5 psi) at 22°C					
	Maximum Operating Temperature: PP & Gamma PP: 80 °C					
HDPE: 60 °C						
Regulatory Compliance:	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 5 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 SZL Series Nylon Capsule (Pharmaceutical grade) Ordering Guide

PureFlo Capsule Filters	Vent & Drain FittingF	ilter Media	Pore size (Micron)	Length	Input Fitting	Output Fitting	Options	
	Family Lorent and		005 = 0.05	H = 1.5"	1C 1C	= 1/8" Compression	Grade	O-Ring for Quick
	N = Nylon	010 = 0.10	S = 2.5"	1H 1H	= 1/8" Hose barbs	-PH = Pharma Grade	-OE = O-ring EPDM	
		020 = 0.20	L = 5"	1N 1N	= 1/8" MNPT	Shell Material	-ON = O-ring Nitrile	
	P = M8 Threaded Plug - Limited options		045 = 0.45	E = 7.5"	1NF	1NF = 1/8" FNPT		-OV = O-ring Viton
PP Shell & Nylon end-	- <u>Limited options</u>		065 = 0.65	K = 10"	1Q 1Q	= 1/8" Male Quick Coupling with Metal latch	Blank = Gamma stable polypropylene	Blank = O-ring Silicon
caps			080 = 0.80		1QF 1Q	F = 1/8" Female Quick Coupling with Metal latch	polypropylerie	(Standard)
Polyester support			120 = 1.20		1QFV 10	FV = 1/8" Female Valved Quick Coupling with Metal latch	-NY = Nylon Construction	Prefilters
Polyester support					1QV 1Q	V = 1/8" Male Valved Quick Coupling with Metal latch	-E = Polyethylene shell	-G(pore Size) = Glass
Polypropylene Cage &					2H 2H	= 1/4" to 1/2" Hose barbs	and HDPÉ media support for	Fiber PreFilter
Core					2HS 2H	S = 1/4" to 3/8" Hose barbs	gamma sterilization	-P(pore Size) = PolyP
					2LF 2L	= Large Female Luer Lock fitting	Vent & Drain	Media PreFilter
nternal Silicone O-ring					2N 2N	= 1/4" MNPT	-NI = No vent or drain	-S(pore Size) = PES
					2NF 2N	F = 1/4" FNPT	Inlet fitting	PreFilter
70mm Diameter					2P 2P	= 1/4" Push to Connect	-NO = NO vent or drain	
Capsule with Bleed					2PE 2P	= 1/4" Push to Connect Elbow	Outlet fitting	
Valve					2Q 2Q	= 1/4" Male Quick Coupling for Metal latch	-N = No vent or drain	
					2QF	2QF = 1/4" Female Quick Coupling with Metal latch	fittings	
					2QFP 20	FP = 1/4" Female Quick Coupling with Plastic latch	Sterilizaion	
					2QFV 20	FV = 1/4" Female Valved Quick Coupling with Metal latch	-ETO = Ethylene oxide	
					2QP 2Q		sterilization	
					2QV 2Q			
					2V 2V	= 1/4" Walther Quick Connect		
					3H	3H = 3/8" Hose Barb		
					3HE	3HE = 3/8" Hose Barb Elbow		
						3H-FB = 3/8" Hose Barb with filling bell or -FC with Cap		
					3NF	3NF = 3/8" FNPT		
					4H 4H	= 1/2" Hose Barb		
					4N 4N	= 1/2" MNPT		
					4Q 4Q	= 1/2" Male Quick Coupling for Plastic latch		
					MT MT	= 1/2" Tri clamps		
					TC TC	= 1-1/2" Tri clamp		
						TS = Shower Head		



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