

# ZenPure

# Ze nCap<sup>®</sup> Full Size Capsules

Pharma Grade

### 10"-40" Disposable Process Filtration

ZenCap® capsule filter assemblies are ready-to-use, full size filters that offer high flows, increased throughputs, high strength, all with the convenience and cleanliness of a disposable and easy-to-install filter assembly. Designed for prefiltration, clarification, and final filtration of medium to large scale batches (100L to 5000L), in the pharmaceutical, biotechnology, food and beverage, medical, chemical, and DI water.

ZenCap<sup>®</sup> capsule assemblies are available with a wide range of hydrophilic and hydrophobic filter media and pore sizes for liquid, gas, and venting applications. Process engineers can choose from 15 filtration medias to create any combination of **integrated** filtration train. These will allow the disposable processing to become truly flexible, clean, and optimal.

They can be built in a T-style or In-line configuration with nine inlet and outlet fitting connections that can be mixed and matched. The filtration shell is an all-polypropylene construction that provides excellent chemical compatibility with low extractables. The shell and supports can also be constructed in nylon, polyethylene or gamma stabilized PP shells for additional compatibility. No adhesives, binders, or surfactants are used in the manufacturing process.



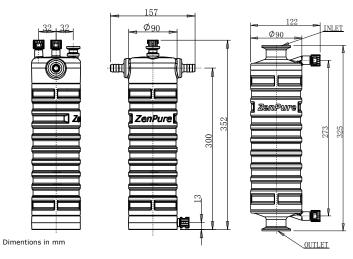
Applications								
Clarification	Water & Wine							
Hard Particle	Food & Beverages							
Cell Removal	Pharmaceuticals							
Chemicals Biologics								
Inks, Dyes	Oils, Waters							
Cosmetics Diagnost	ics							

## **Specifications**

Materials of Construction:	Media: Charged Nylon, Depth PP, Polyethylene, PTFE, Glass Fiber, PP Membrane Nylon, Nylon Screen, PP media, PES, and Polyester Screen Media Supports: Polypropylene, PET, Nylon, or HDPE Shell, Cage, Core, End Caps: Polypropylene, Nylon, or HDPE Sealing: Thermally bonded
Fitting Connections:	12 Fittings - See Ordering Guide for availability. (Custom adaptors available upon request)
Nominal Dimensions:	Lengths: 10", 20", 30", 40" Diameter: 3.54" (90mm)
Effective Filtration Area:	See Cartridge Datasheet for more information (Dependent on Media)
Available Ratings:	0.04um - 200.0um (Dependent on Media)
Operating Conditions:  HDPE:	Maximum Forward Differential Pressure: Liquid: 5.5 bar (80psi) at 72°F/22°C Gas: 4.1 bar (60psi) at 72°F/22°C Minimum Burst Pressure: 8.3 bar (120psi) at 72°F/22°C Maximum Forward Differential Pressure: 5 bar (72psi) at 72°F/22°C Maximum Reverse Differential Pressure: 3.0 bar (44psi) at 72°F/22°C Maximum Operating Temperature: PP & Gamma PP: 176°F/80°C 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 Plastics.

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### Specifications (cont.)

#### Autoclavable & Sanitizable:

Capsules can be autoclaved 25 times at 257° F/125°C for 30 minutes (5 times for Nylon) or chemically sanitized in situ using common sanitizing agents or hot water at 194°F/90°C for a limited time (dependent on time and temperature). Capsules must not be in situ steam-sterilized.

#### Bacterial Endotoxin:

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

### PureFlo ZenCap Filter Capsule Ordering Guide

ZenCap Capsule Series	Configuration	Length	Filter Media	Pore size (Micron)	Vents **	Input Fitting	Output Fitting	Options		
		1 - 10"	C = Carbon Fiber		A = No vents	1QFV = 1/8" Female Quick connect w/Valve for Metal latch	1QFV	Shell Material	Prefilters	
L = Pharma Grade	I = In-Line	<b>2</b> - 20"	CN = Charged Nylon	Pick From	B = 1/2" Sanitary vent	1QV = 1/8" Male Quick connect w/Valve for Metal latch	1QV	Blank = Polypropylene	-G(pore Size)= Glass	
	T = T-Line	3 - 30"	DP = Depth PolyPro	Pore Size	c = 1/2" Sanitary vent, with	2QFV = 1/4" Female Quick connect w/Valve for Metal latch	2QFV	-E = Polyethylene	Fiber PreFilter	
	I - I-LIIIE	4 - 40"	F = PTFE	Table	upstream and down stream 1/4"	2QV = 1/4" Male Quick connect w/Valve for Metal latch	2QV	-GP = Gamma Stable	-P(pore Size)= PolyPro	
			G = Glass Fiber		Bleed Valve	3H = 3/8" Hose Barb	3H	Polypropylene	Media PreFilter	
			N = Nylon		D = 1/2" Sanitary vent, with upstream	4H = 1/2" Hose Barb	4H -N =	Nylon	-S(pore Size) = PES	
			NG = Natural Glass Fiber		1/4" Bleed Valve	4Q = 1/2" Male Quick connect	4Q Steri	ization	PreFilter	
90mm Diameter	Other		NN = Nylon Non-Woven Media		E = 1/2" Sanitary vent, with down	5H = 9/16" Hose Barb	5H	-ETO = Ethylene Oxide	Ī	
Capsule for full size	configurations		NS = Nylon Screen		stream 1/4" Bleed Valve	6H = 3/4" (19mm) Hose Barb	6H	Sterilization		
cartridges	avalible		P = PolyPro Media		F = lelet and Outlet 4/48 Dised Makes	8H = 1" (25mm) Hose Barb	8H O-Ri	gs	Ť	
	C = C-Line		PS = PolyPro Screen		F = Inlet and Outlet 1/4" Bleed Valve	TC = 1-1/2" Tri-Clamp	TC	Blank = O-Ring Silicon	Ť	
	S = S-Line		RP = Wrapped PolyPro Media		G = Inlet 1/4" Bleed Valve	2T = 2" Tri-Clamp	2T	(Standard)		
	L = L-Line		S = PES		H = Outlet 1/4" Bleed Valve			-OE = O-Ring EPDM		
			TS = Polyester Screen		Note: Ontine B.O. D. 85 and for Indian			-ON = O-Ring Nitrile		
			UE = Polyethylene		Note: Option B,C, D &E not for In-Line			-OV = O-Ring Viton		
	Exa	mple 1 - Zer	Cap L Series Capsule, T-Li	ne, PES 0.4	5um/0.2um, 20" filter, with all ven	at and drains, 1.5" Tri-Clamp fittings I/O, would be	LT2S045020	СТСТС	•	
	Exam	ple 2 - ZenC	ap L Series Capsule, In-Line	e, GF0.5um	PES 0.2um, 10" filter, with all ver	nt and drains, 1.5" Tri-Clamp fittings I/O, would be	LI1G050S02	20CTCTC		
Notes: For For CD or			he PET for namma stability			lve standard on all T-I ine filters Except for option A				

Pore size (Micron)														
Carbon	Charged	Depth PP	PTFE	Glass Fiber	Nylon (N)	Natural Glass	Nylon Non-Woven	Nylon	PP Media	Polypro	Wrapped PP	PES (S)	Polyester	Polyethylene
Fiber (C)	Nylon (CN)	(DP)	Phobic (F)	(G)		Fiber (NG)	Media (NN)	Screen (NS)	(P)	Screen (PS)	Media (RP)		Screen (TS)	(UE)
	<b>005</b> = 0.05	<b>002</b> = 0.2	<b>010</b> = 0.1	<b>002</b> = 0.2	<b>005</b> = 0.05	<b>005</b> = 0.5	010 = 1	<b>100</b> = 10	<b>003</b> = 0.3	<b>10X</b> = 100	<b>003</b> = 0.3	<b>004</b> = 0.04	<b>400</b> = 40	<b>010</b> = 0.1
Leave Blank	<b>010</b> = 0.10	<b>005</b> = 0.5	<b>020</b> = 0.2	<b>004</b> = 0.45	<b>010</b> = 0.10	<b>010</b> = 1.0	<b>030</b> = 3	<b>200</b> = 20	<b>006</b> = 0.6	21X = 210	<b>005</b> = 0.6	<b>010</b> = 0.1	<b>600</b> = 60	<b>020</b> = 0.20
	<b>020</b> = 0.20	<b>010</b> = 1.0	<b>045</b> = 0.45	<b>005</b> = 0.5	<b>020</b> = 0.20	030 = 3.0	050 = 5	<b>400</b> = 40	<b>010</b> = 1.0	26X = 260	<b>010</b> = 1.0	<b>020</b> = 0.2	<b>730</b> = 73	<b>045</b> = 0.45
	<b>045</b> = 0.45	<b>015</b> = 1.5	<b>100</b> = 1.0	<b>010</b> = 1.0	<b>045</b> = 0.45	<b>050</b> = 5.0	<b>100</b> = 10	<b>600</b> = 60	<b>030</b> = 3.0	<b>30X</b> = 300	<b>030</b> = 3.0	<b>045</b> = 0.45		<b>100</b> = 1.0
	<b>065</b> = 0.65	<b>025</b> = 2.5	<b>300</b> = 3.0	<b>030</b> = 3.0	<b>065</b> = 0.65		<b>200</b> = 20	<b>10X</b> = 100	<b>050</b> = 5.0	35X = 350	<b>050</b> = 5.0	<b>065</b> = 0.65		
	<b>080</b> = <b>0.80</b>	<b>045</b> = 4.5	<b>500</b> = 5.0	<b>050</b> = 5.0	<b>080</b> = <b>0.80</b>		<b>400</b> = 40	20X = 200	<b>070</b> = 7.0	<b>46X</b> = 460	<b>070</b> = 7.0	<b>080</b> = <b>0.8</b>		
	<b>120</b> = 1.20	<b>100</b> = 10	999 = 10.0	<b>100</b> = 10.0	<b>120</b> = 1.20			25X = 250	<b>100</b> = 10.0	<b>50X</b> = 500	<b>100</b> = 10.0	<b>120</b> =1.2		
		<b>200</b> = 20		<b>200</b> = 20.0					<b>200</b> = 20.0	98X = 980	<b>200</b> = 20.0			
				<b>300</b> = 30.0					<b>300</b> = 30.0					
				Best for Gas		Best for			<b>400</b> = 40.0					
				Applications		Liquid			<b>500</b> = 50.0					
				Applications		Applications			<b>700</b> = 70.0					
									<b>10X</b> = 100					
									<b>15X</b> = 150					



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