

## Zen Cap<sup>®</sup> PTFE Full Size Capsules

### 10"-40" Disposable Process Filtration

ZenCap<sup>®</sup> PTFE 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 pre-filtration, clarification, and final filtration of medium to large scale batches (100L to 5000L), in pharmaceutical, biotechnology, food and beverage, chemical, DI water and venting applications.

ZenCap<sup>®</sup> PTFE capsule assemblies are available with a range of hydrophobic filter pore sizes for liquid, gas, and venting applications. Process engineers can choose from 7 filtration pore sizes to suit the needs of the application. 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 12 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 or polyethylene for additional compatibility. No adhesives, binders, or surfactants are used in the manufacturing process.

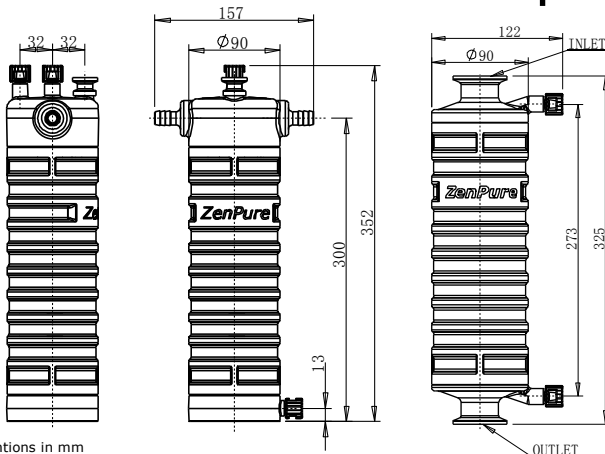


Applications	
Clarification Chemicals	
Pharmaceutical Solvents	
Venting API	
WFI Oils	

### Specifications

Materials of Construction: Media	Media: PTFE Supports: Polypropylene Shell, Cage, Core, End Caps: Polypropylene, or Nylon 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:	0.65 m <sup>2</sup> (7.0 ft <sup>2</sup> ) per 10" cartridge elements
Available Ratings:	0.1um - 10.0um
Operating Conditions: Gas:	Maximum Operating Pressure: Liquid: 5.5 bar (80psi) at 72°F/22°C 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 : 176°F/80°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. Complete retention of > 10 <sup>7</sup> organisms/cm <sup>2</sup> of <i>Brevundimonas diminuta</i> in accordance with the current HIMA challenge methodology (ASTM F838-83). Validation Guide available upon request

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Dimensions in mm

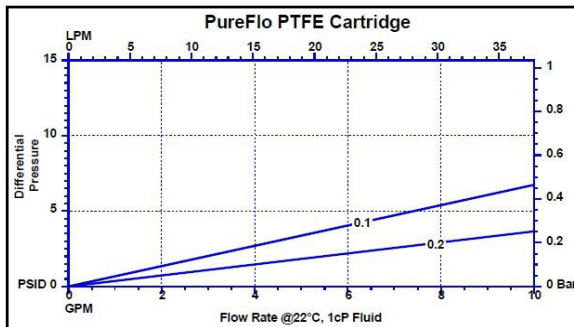
### Specifications (cont.)

#### Autoclavable & Sanitizable:

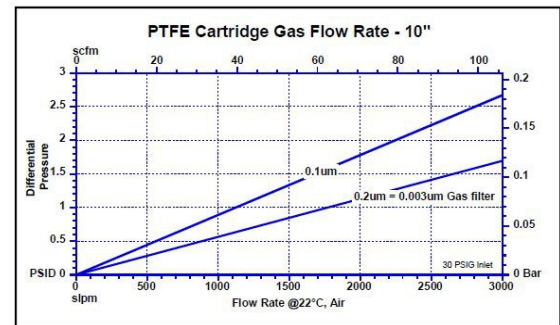
Capsules can be autoclaved 25 times at 257°F/125°C for 30 minutes or chemically sanitized in situ using common sanitizing agents or hot water at 194°F/90°C for a limited time (dependent on time and temperature). Capsules must not be in situ steam-sterilized.

#### Bacterial Endotoxin:

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



Liquid



Gas

### PureFlo ZenCap PTFE Filter Capsule Ordering Guide

ZenCap Capsule Series	Configuration	Length	Filter Media	Pore size (Micron)	Vents **	Input Fitting	Output Fitting	Options	
L = Pharma Grade  90mm Diameter Capsule for full size cartridges	I = In-Line	1 - 10"	F = PTFE	010 = 0.1	A = No vents B = 1/2" Sanitary vent C = 1/2" Sanitary vent, with upstream and down stream 1/4" Bleed Valve D = 1/2" Sanitary vent, with upstream 1/4" Bleed Valve E = 1/2" Sanitary vent, with down stream 1/4" Bleed Valve F = Inlet and Outlet 1/4" Bleed Valve G = Inlet 1/4" Bleed Valve H = Outlet 1/4" Bleed Valve  Note: Option B,C, D & E not for In-Line	1QFV = 1/8" Female Quick connect w/Valve for Metal latch 1QV = 1/8" Male Quick connect w/Valve for Metal latch 2QFV = 1/4" Female Quick connect w/Valve for Metal latch 2QV = 1/4" Male Quick connect w/Valve for Metal latch 3H = 3/8" Hose Barb 4H = 1/2" Hose Barb 4Q = 1/2" Male Quick connect 5H = 9/16" Hose Barb 6H = 3/4" (19mm) Hose Barb 8H = 1" (25mm) Hose Barb TC = 1-1/2" Tri-Clamp 2T = 2" Tri-Clamp	1QFV 1QV 2QFV 2QV 3H 4H-N 4Q Sterilization 5H 6H 8H O-Rings TC 2T	Options	
	T = T-Line	2 - 20" 3 - 30" 4 - 40"		020 = 0.2 045 = 0.45 100 = 1.0 300 = 3.0 500 = 5.0 999 = 10.0				Shell Material	Prefilters
	Other configurations C = C-Line S = S-Line L = L-Line							Blank = Polypropylene -GP = Gamma Stable Polypropylene Nylon -ETO = Ethylene Oxide Sterilization Blank = O-Ring Silicon (Standard) -OE = O-Ring EPDM -ON = O-Ring Nitrile -OV = O-Ring Viton	-G(pore Size) = Glass Fiber PreFilter -P(pore Size) = PolyPro Media PreFilter -S(pore Size) = PES PreFilter

Example 1 - ZenCap L Series Capsule, T-Line, PTFE 0.2um, 20" filter, with all vent and drains, 1.5" Tri-Clamp fittings I/O, would be LT2F020CTCTC

Notes: For -E or -GP options, the standard pleat support will be PET for gamma stability

\*\* 1/4" Drain bleed Valve standard on all T-Line filters Except for option A



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