

PureFlo® Z-Series Junior Capsule Filters

PureFlo® Z-Series Junior Capsule Filters are gamma-stable and ideally suited for integration into single-use applications. These filter capsules feature an asymmetric hydrophilic PES membrane that demonstrates exceptional capacity and flow performance in liquid applications. The Z-Series Junior Capsule Filters offer small-scale filtration in a variety of applications in the biopharmaceutical industry. The Z-Series product family has been designed for easy pre- and post-use integrity testing, assuring easy wetting for quick and accurate integrity test results.

The compact design and available inlet and outlet fittings allow efficient integration of Z-Series Junior Capsule Filters into a wide range of single-use systems. Z-Series Junior Capsule Filters provide biopharmaceutical manufacturers with a filtration solution configured to meet their process needs.

Typical Uses	
Applications	Process Fluids*
Prefiltration Bioburden Reduction Sterile Filtration	WFI Buffer Cell culture medium Bulk drug substance Final drug product

*Chemical compatibility information available upon request.

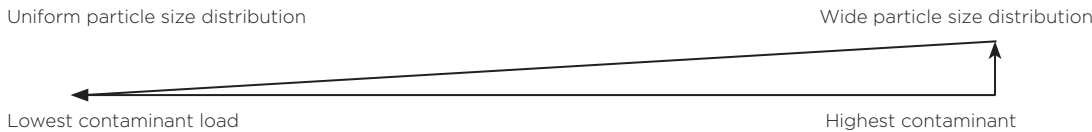
Materials of Construction	Media: Polyethersulfone (PES) Media Supports: Polyester Cage and Core: Polypropylene End Caps and Shell: Nylon O-Rings: Silicone	
Fitting Connections	See ordering guide for availability. (Custom adaptors available upon request)	
Nominal Dimensions	Body length: 41 mm (1.2") Diameter: 41 mm (1.6")	
Effective Filtration Area (Single Layer)	Standard size: 260 cm ² (0.28 ft ²)	
Operating Conditions	Maximum Operating Pressure	Liquid: 5.5 bar (80 psi) at 22°C (72°F)
	Maximum Forward Differential Pressure	5 bar (72 psi) at 22°C (72°F)
	Maximum Reverse Differential Pressure	2.1 bar (30 psi) at 22°C (72°F)
	Maximum Operating Temperature	80°C (176°F)
Integrity Testing*	0.1 µm (see ordering guide for grades)	60% isopropyl alcohol bubble point ≥ 1.6 bar (23 psi) using air at 22°C
	0.2 µm (see ordering guide for grades)	Water bubble point ≥ 3.5 bar (50 psi) using air at 22°C
USP Class VI	All components or raw materials used in this product conform to the requirements of USP Class VI Biological Reactivity Tests for Plastics.	
USP Cleanliness	Effluent from this product meets the requirements for a "non-fiber releasing" filter as defined by 21 CFR 210.3 (b) (6) and the harmonized requirements set forth by the USP <788>, EP, and JP for Particulate Matter in Injections.	
Bacterial Endotoxins	An aqueous extraction of this product contains <0.25 EU/ml as determined by the Limulus Amebocyte Lysate (LAL) Test.	
Bacterial Retention	0.1 µm and 0.2 µm grades are quantitatively retentive towards <i>Brevundimonas diminuta</i> (ATCC #19146) at a minimum challenge level of 10 ⁷ CFU per cm ² of filtration area, consistent with ASTM F838-05.	
Sterilization	This product can be autoclaved up to 25 cycles at 125 °C (257 °F) for 30 minutes. This product is compatible with gamma irradiation up to 50 kGy.	

*All filters are 100% integrity tested.

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PureFlo Z-Series Junior Capsule Filters Ordering Guide

Filtration Media Grades		
SINGLE LAYER	DUAL LAYER	
PES (S)	PES with built-in (fine) PES prefilter (ZS)	PES with built-in (coarse) PES prefilter (XS)
S004 = 0.04 µm S010 = 0.1 µm S020 = 0.2 µm S045 = 0.45 µm S065 = 0.65 µm S080 = 0.8 µm S120 = 1.2 µm	ZS010 = 0.1 µm ZS020 = 0.2 µm ZS045 = 0.45 µm	XS010 = 0.1 µm XS020 = 0.2 µm



PureFlo Z-series Junior Capsule Filter	Filter Media Grade	Size	Inlet Fitting	Outlet Fitting	Options
JZP = Z-Series Junior Capsule	Select from Filtration Media Grades (above)	Blank = standard	1H 1Q 2H 2NO 2Q 2QP 3H LF LM MT	1H = 1/8" hose barb 1Q = 1/8" male quick coupling 2H = 1/4" hose barb 2H-FB = 1/4" hose barb with filling bell 2H-FC = 1/4" hose barb with filling bell with cap 2NO = 1/4" straight thread with O-ring 2Q = 1/4" male quick coupling 2QP = 1/4" male quick coupling (for plastic latch) 3H = 3/8" hose barb LF = female Luer lock LM = male Luer lock MT = 1/2" tri-clamp	Vent & Drain - N = No vent/drain - NI = No vent/drain near inlet - NO = No vent/drain near outlet (Leave blank for one vent/drain near inlet and one vent/drain near outlet)
Example: (JZPZS020LFLF) Z-Series Junior Capsule, 0.2 µm PES final membrane with built-in (fine) PES prefilter, female luer lock inlet/outlet, and two luer lock vent/drain)					

Custom adapters are available upon request.



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