

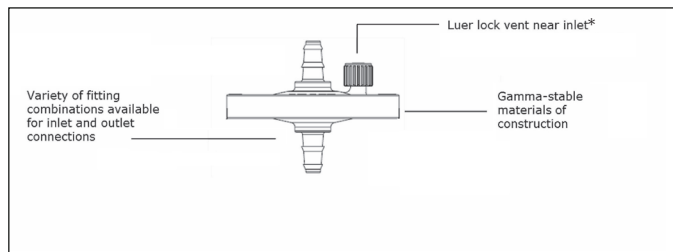
# PureFlo® Z-Series Disc Capsule Filters

Saint-Gobain PureFlo® Z-Series Disc Capsule filters are gamma-stable and ideally suited for integration into single-use applications. These filters feature an asymmetric hydrophilic PES membrane that demonstrates exceptional capacity and flow performance in liquid applications. Z-Series Disc 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 Disc Capsules Filters into a wide range of single-use systems. Z-Series Disc 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.



\*Standard on select disc sizes only

<b>Materials of Construction</b>	Media: Polyethersulfone (PES) Media Supports: Polyester Shell: Polypropylene O-Rings: Silicone	
<b>Fitting Connections</b>	See ordering guide for availability. (Custom adaptors available upon request)	
<b>Nominal Dimensions</b>	See ordering guide for details	
<b>Effective Filtration Area</b>	See ordering guide for details.	
<b>Operating Conditions</b>	Maximum Operating Pressure	Liquid: 3.1 bar (45 psi) at 22°C (72°F)
	Maximum Forward Differential Pressure	3.1 bar (45 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)
<b>Integrity Testing*</b>	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
<b>USP Class VI</b>	All components or raw materials used in this product conform to the requirements of USP Class VI Biological Reactivity Tests for Plastics.	
<b>USP Cleanliness</b>	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.	
<b>Bacterial Endotoxins</b>	An aqueous extraction of this product contains <0.25 EU/ml as determined by the Limulus Amebocyte Lysate (LAL) Test.	
<b>Bacterial Retention</b>	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 <sup>7</sup> CFU per cm <sup>2</sup> of filtration area, consistent with ASTM F838-05.	
<b>Sterilization</b>	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.



# PureFlo® Z-Series Disc Capsule Filters

## PureFlo Z Series Disc 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



Filter Sizes	Filter Types	Description	Outer Shell Diameter*	Effective Filtration Area (EFA)
	D13Z	13 mm disc	16 mm	0.8 cm <sup>2</sup>
	D25Z	25 mm disc	33 mm	4.6 cm <sup>2</sup>
	D40Z	40 mm disc	45.5 mm	10.5 cm <sup>2</sup>
	D50Z	50 mm disc	54 mm	15.9 cm <sup>2</sup>
	D65Z	65 mm disc	72 mm	26 cm <sup>2</sup>
	D90Z	90 mm disc	99 mm	60 cm <sup>2</sup>

\*Nominal dimensions and engineering drawings with tolerances available upon request

PureFlo DiscFilter Capsules	Filter Media Grade	Inlet Fitting	Outlet Fitting	D13	D25	D40
D13Z = 13 mm Z-Series Disc filter  D25Z = 25 mm Z-Series Disc filter  D40Z = 40 mm Z-Series Disc filter	Select from Filtration Media Grades (above)	0H	0H = 1/16" hose barb	•		
		0H	0H = 1/16-3/32" hose barb		•	•
		AH	AH = 3/32" hose barb	•	•	•
		1H	1H = 1/8" hose barb	•	•	•
		1Q	1Q = 1/8" male quick coupling	•	•	•
		2H	2H = 1/4" hose barb (stepped)		•	•
		3H	3H = 3/8" hose barb (stepped)		•	•
		LF	LF = female Luer lock	•	•	•
LM	LM = male Luer lock	•	•	•		
D13Z	S	O20	1H	1H		
<b>Example - (D13ZS0201H1H): 13 mm Z-series Disc, 0.2 µm PES, and 1/8" hose barb (single) inlet/outlet.</b>						

Custom adapters are available upon request.

# PureFlo® Z-Series Disc Capsule Filters

## PureFlo Z-Series Disc Capsule Filter Ordering Guide

PureFlo Disc Filter Capsules	Filter Media Grade	Inlet Fitting	Outlet Fitting	D50	D65	D90
D50Z = 50 mm Z-Series Disc filter	Select from Filtration Media Grades (above)	1H	1H = 1/8" hose barb	•	•	•
		1Q	1Q = 1/8" male quick coupling	•	•	•
		1QF	1QF = 1/8" female quick coupling with metal latch	•	•	•
		2H	2H = 1/4" hose barb	•	•	•
		2Q	2Q = 1/4" male quick coupling	•	•	•
		2QF	2QF = 1/4" female quick coupling with metal latch	•	•	•
		3H	3H = 3/8" hose barb	•	•	•
		4H	4H = 1/2" hose barb		•	•
		4Q	4Q = 1/2" male quick coupling (for plastic latch)			•
		5H	5H = 5/8" hose barb (multi)			•
		LF	LF = female Luer lock		•	•
		LM	LM = male Luer lock		•	•
		LS	LS = male Luer slip		•	•
		MT	MT = 1/2" tri-clamp			•
		RM	RM = 1/2" tri-clamp with SS insert			•
		RT	RT = 1.5" tri-clamp with SS insert			•
		TC	TC = 1.5" tri-clamp			
D13Z	S	1H	1H			
<b>Example - (D50ZS0201H1H): 50 mm Z-series Disc, 0.2 µm PES, and 1/8" hose barb (single) inlet/outlet.</b>						

Custom adapters are available upon request.



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