



ZETAPOR® SA 020 µm Log Reduction Grade Cartridge



Zetapor® SA 0.20 µm Log Reduction Grade Cartridges provide safer, more reliable, and efficient prefilter operation. The function of the SA cartridge is to increase the effective service life of downstream final filters. The Zetapor® SA cartridge accomplishes this objective by providing a large and highly effective surface area (0.83 m²/9.2 ft²). The electropositive charge of the Zetapor® membrane combined with the rated pore size offers highly efficient filtration for bacteria retention and pyrogen reduction.

The charge-modified, double-layer composite Nylon 66 membrane provides enhanced particle retention and endotoxin reduction. With a log reduction value of 6, the cartridge can reduce bioburden to the final sterilizing filter.

Applications

- Prefilter to final membrane
- Final filter for diagnostics and reagents

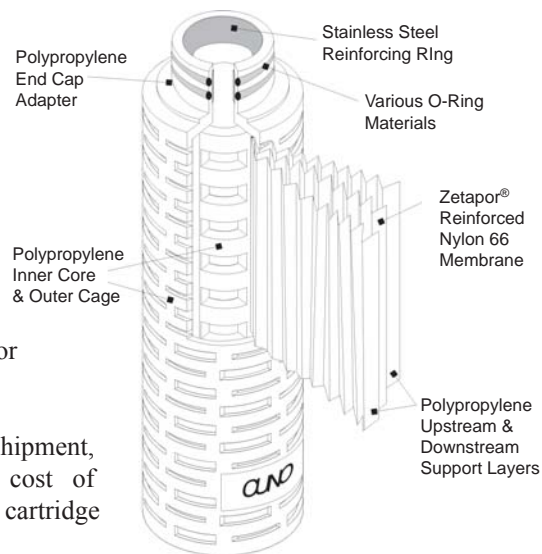
PERFORMANCE

The Zetapor® SA 020 cartridge typically shows log reduction values of 6 per 10” element for all cartridges tested using *Pseudomonas diminuta* and ASTM/HIMA procedures.

CONSTRUCTION

Zetapor® SA 0.20 µm Log Reduction Cartridges are produced from a reinforced pleated membrane. The composite membrane is composed of two layers of charge-modified Nylon 66, with upstream and downstream polyester supports. Multiple lengths of various end cap styles are produced by thermoplastic welding to eliminate the need for adapters. No adhesives or surfactants are used in the cartridge assembly.

While the Zetapor® SA 020 cartridge is not integrity tested before shipment, it is biologically safe in accordance with USP testing, providing a cost of reduction for non-sterile applications. Do not use the Zetapor® SA 020 cartridge applications requiring integrity testing.



Features	Benefits
<ul style="list-style-type: none"> • Proprietary charge-modified Nylon 6,6 filter medium. 	<ul style="list-style-type: none"> • Retention of negatively-charged biological and particulate contaminants including endotoxins. • Inherently hydrophilic membrane for easy wet-out.
<ul style="list-style-type: none"> • Large Surface Area. 	<ul style="list-style-type: none"> • High flow rates and longer cartridge life.
<ul style="list-style-type: none"> • Robust cartridge construction. 	<ul style="list-style-type: none"> • Cartridges withstand mechanical and thermal stress including SIP operations.
<ul style="list-style-type: none"> • ISO 9001:2000 - Registered Quality System. 	<ul style="list-style-type: none"> • Quality Management System approved by an accrediting body to an ISO 9001 Quality System Standard.

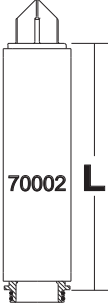
CARTRIDGE SPECIFICATIONS	
Dimensions, Nominal	Outside Diameter: 7.11 cm / 2.8"
	Length: 10", 20" 30" and 40"
	(See ordering guide for more info)
Surface Area	0.83 m ² (9.2 ft ²) per 10" element
Bacteria Removal Rating (nominal)	0.20 µm
Log Reduction Value (LRV)	> 6
Extractables in Water	< 30 mg @ 20 °C (68 °F)

OPERATING PARAMETERS	
Maximum Operating Temperature	80 °C (176 °F)
Max. Forward Differential Pressure	4.49 bar @ 25 °C (65 psid @ 78 °F)
Max. Reverse Differential Pressure	4.49 bar @ 25 °C (65 psid @ 78 °F)
Typical Water Flow Rate	31 l/min per 300 mbar @ 25 °C (0.9 gpm per psid @ 25 °C)
Sterilisation Procedure	In-situ steam or autoclave up to 145 °C
Rinse Volume	1000 ml minimum per 10" element

ZETAPOR® SA 020 ORDERING GUIDE

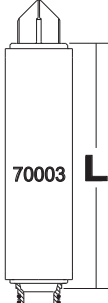
BASIC CARTRIDGE DESIGN	NOMINAL CARTRIDGE LENGTH*	GASKET OR O-RING MATERIAL	MICRON RATING	FORMULATION	CONTROL GRADE
70002 70003 70025	01 02 03 04	A - Silicone B - Fluorocarbon C - EPR D - Nitrile	020 - 0.20 µm	S	A - General Purpose

* See Below



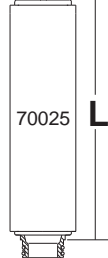
**Single Open End
Code 7 (226) O-Ring
Bayonet Lock**

Nominal Ctg. Length	70002 L
01	10 3/16"
02	19 15/16"
03	29 11/16"
04	39 7/19"



**Single Open End
Code 8 (222) O-Ring**

Nominal Ctg. Length	70003 L
01	10 7/32"
02	19 31/32"
03	29 23/32"
04	39 15/32"



**Single Open End
Code 3 (222) O-Ring**

Nominal Ctg. Length	70025 L
01	10 7/32"
02	19 31/32"
03	29 23/32"
04	39 15/32"

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