

Bevigard™-P Cartridge Filters

■ A Combination of a Highly Retentive Media with a High Dirt-Holding Capacity Media for Superior Filtration Efficiency



Typical Applications

Bevigard-P Cartridge Filters are designed for all types of application where both high adsorption capacity and fine filtration are needed, for example with water and other beverages.

Efficiency

These versatile, composite depth/surface-type filters retain contaminant within the depth matrix of the borosilicate glass microfiber medium, as well as on the surface of the mixed cellulose esters membrane.

They combine high dirt holding capacity with excellent throughput.

Cost Effective

The combined two filtration stages, depth and membrane, offer high dirt-holding capacity with high retention efficiency, providing a high level of protection of final filters such as Vitipore.

Bevigard-P filters can be repeatedly hot-water regenerated, providing highly cost-efficient filtration.

Quality

Supplied with a Certificate of Quality which certifies that Bevigard-P filters meet Quality Assurance lot release criteria.

Manufactured in a facility whose Quality Management System is approved by an accredited registering body to the ISO 9000 Quality Systems Standard.

Specifications

Materials

Mixed cellulose esters and borosilicate glass media; polypropylene media supports; polypropylene core, outer shell and end caps; silicone O-rings.

Cartridge Size

25cm/10", 50 cm/20", 75 cm/30", 100 cm/40" lengths; outside diameter 7,4 cm.

Filtration Area

Two Membrane Layer Cartridges
0.46 m² per 25 cm/10" cartridge element.

Operating Conditions

Maximum Differential Pressure:
3.5 bar at 25°C.

Maximum Operating Temperature:
80°C.

Sterilisability:

Bevigard-P cartridges may be multiple steam-sterilised or hot water sanitised.

Certificate of Quality - Example

Bevigard-P filters are designed, developed and manufactured in accordance with a Quality Management System approved by an accredited registering body to an ISO 9000 Quality System Standard.

Each Bevigard-P cartridge is shipped with a Certificate of Quality for documentation accuracy.

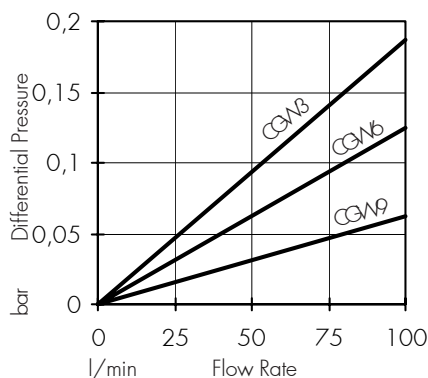
This certificate reports all the tests made on these cartridges to insure the consistency and the quality of the product we deliver.

Bevigard-P™ Cartridge Filter		Quality Assurance Lot Release Criteria	Quality Assurance Audit Criteria
0.5 µm Nominal Rated Catalogue Number: CGW673SB1 Lot Number: Good Manufacturing Practices This product was manufactured in a Millipore facility which meets or exceeds FDA Device Good Manufacturing Practice standards. ISO 9000 Quality Standard This product was manufactured in a Millipore facility whose Quality Management System is approved by an accredited registering body to the appropriate ISO 9000 Quality Systems Standard. Non Fiber Releasing This product was manufactured with a Millipore media combination which meets the criteria for a "non-fiber releasing" filter as defined in 21 CFR 210.3 (b) (6). Component Materials Toxicity Component materials were tested and met the criteria for the USP Class VI Biological Test for Plastics at 50°C. Indirect Food Additive All component materials meet FDA Indirect Food Additive requirements cited in 21 CFR 177.182.		This manufacturing lot was sampled, tested and released by Quality Assurance to the following specifications: Structural Integrity Samples were found to be integral as measured by an aerosol challenge test. Flow Rate and Pressure Drop Samples met a maximum pressure drop of 1.1 psid (76 mbar) at 30 gpm (114 L/min) per 30-inch cartridge with clean water at 23°C.	This product was designed and manufactured to meet the following specifications. Performance is confirmed by testing on an audit basis: Toxicity This product is non-toxic per the current USP General (Mouse) Safety Test. Gravimetric Extractables The extractables level was equal to or less than 140 mg per 10-inch cartridge after 24 hours in ASTM Type 1 reagent-grade water at controlled-room temperature. Multiple Sterilization Cycles Integrity was maintained after 10 steam-in-place cycles of 30 minutes at 121°C.
		<i>Nicholas Lambos</i> Nicholas Lambos Vice President and General Manager, BioProcess Division <i>John P. Tuttle</i> John P. Tuttle Manager, Worldwide Quality Systems and Certification, BioProcess Division	

Certificate of Quality - Example

Water Flow Rate

for a 75 cm/30" cartridge at 23 °C



Construction and Pore Size

Bevigard-P	Nominal Pore Size	Glass Microfiber Depth Medium 1st Layer		Mixed Cellulose Esters Membrane 2nd Layer		
		1 µm	2 µm	0.2 µm	0.5 µm	1.2 µm
CGW3	0.2 µm	X		X		
CGW6	0.5 µm	X			X	
CGW9	1.2 µm		X			X

Ordering Information

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Cartridge Filter	Cartridge Type Bevigard-P			Cartridge Code	Cartridge Length	O-Ring Material	Packaging	
	GW3 = 0.2 µm			0 = 2-222 o-ring	1 = 10"	Silicone	1/pk	
	GW6 = 0.5 µm			7 = 2-226 o-ring with spear and bayonet	2 = 20"			
	GW9 = 1.2 µm				3 = 30"			
					4 = 40"			

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MILLIPORE

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Bevigard-P-Cartridge-Filters

- CGW301SB1
- CGW302SB1
- CGW303SB1
- CGW304SB1
- CGW371SB1
- CGW372SB1
- CGW373SB1
- CGW374SB1
- CGW601SB1
- CGW602SB1
- CGW603SB1
- CGW604SB1
- CGW671SB1
- CGW672SB1
- CGW673SB1
- CGW674SB1
- CGW901SB1
- CGW902SB1
- CGW903SB1
- CGW904SB1
- CGW971SB1
- CGW972SB1
- CGW973SB1
- CGW974SB1