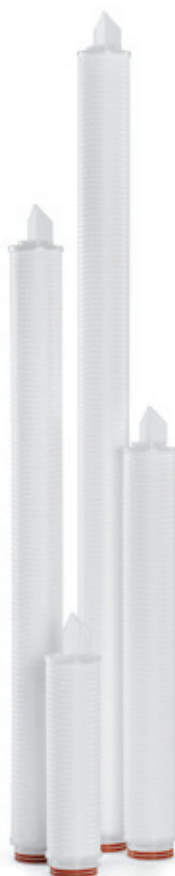




CLAROX®

MEMBRANE FILTER CARTRIDGES

Sterile filtration for water, mineral water, wine, beer and other beverages



- Absolute rated membrane filter cartridges for food and beverage applications. Obtained by pleating PES (hydrophilic polyethersulfone) layer membrane with upstream and downstream supports of polyester or polypropylene.
- Designed as sterilizing final filter for beverages with interesting cost benefit ratio and great performance in cold microbiological stabilization.
- Integrity testable.
- Repeatedly steamable.
- Sanitation.
- Regenerable.
- Thermo welded construction.
- EC-listed materials for food contact.
- FDA-listed materials per CFR21.

Material of construction	CLAROX® MP/B, GM*	CLAROX® MP, MP/W
Filter media	Asymmetric PES membrane	Asymmetric PES membrane
Upstream support	Polypropylene	Polyester
Downstream support	Polypropylene	Polyester
Internal core external core	Polypropylene	Polypropylene
Outer cage	Polypropylene	Polypropylene
Adapter and end caps	Polypropylene	Polypropylene

* CLAROX® GM with pre-filter layers in borosilicate microfibers.

Operating conditions	
Maximum recommended operating differential pressure	2.0 bar at 25 °C
Maximum differential pressure	5.0 bar at 25 °C
Maximum continuous operating temperature	75 °C
Regenerability	Max. 2 % NaOH and active chlorine for food industry 200 ppm
Thermal sterilization	Water 90 °C
Chemical sterilization	By standard chemical agents
Maximum cumulative time of steam sterilization	50 hours at 121 °C with cycles of 30 min. with max. ΔP 0.3 bar

Technical data				
Description	CLAROX® MP 02	CLAROX® MP/W 04	CLAROX® MP/W 06	CLAROX® MP/W 08
Absolute filtration rating	0.2 micron	0.45 micron	0.65 micron	0.8 micron
BP value	3.5 bar	1.3 bar	1.1 bar	0.7 bar
Max. diffusion flow (10")	< 14 ml/min	< 20 ml/min	< 20 ml/min	< 20 ml/min
Test pressure for pressure hold test	2.8 bar	1.1 bar	0.9 bar	0.6 bar
Test differential limits (per 30" cartridge)*	< 65 mbar	< 115 mbar	< 115 mbar	< 115 mbar
Bacteria retention	> 1.0 E7 per cm ² (<i>Brevundimonas diminuta</i>)	> 1.0 E7 per cm ² (<i>Leuconostoc oenos</i>)	> 1.0 E7 per cm ² (<i>Saccharomyces cerevisiae</i>)	> 1.0 E7 per cm ² (<i>Saccharomyces cerevisiae</i>)
Filter area per 10" cartridge	0.55 m ²	0.7 m ²	0.7 m ²	0.7 m ²

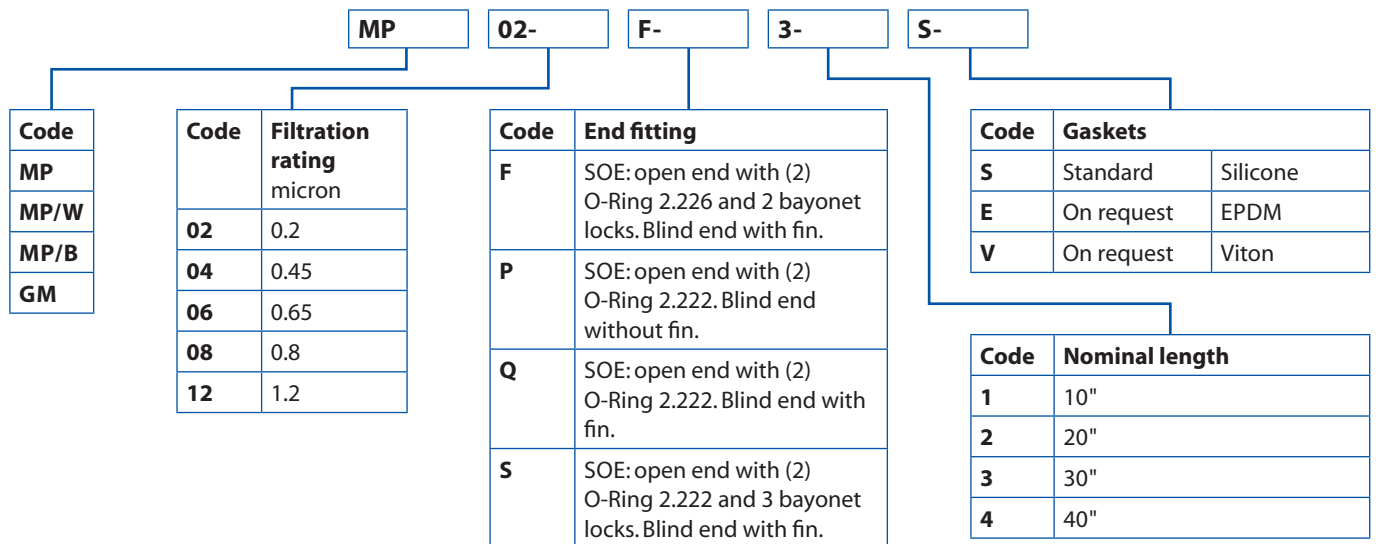
* The values are related to 5 minutes and are indicative as they depend on the volume of the housing upstream of the filter cartridge.

Technical data			
Description	CLAROX® MP/B 04	CLAROX® MP/B 06	CLAROX® GM
Absolute filtration rating	0.45 micron	0.65 micron	1.2 micron
BP value	1.3 bar	1.1 bar	
Max. diffusion flow (10")	< 20 ml/min	< 20 ml/min	
Test pressure for pressure hold test	1.1 bar	0.8 bar	0.5 bar
Test differential limits (per 30" cartridge)*	< 115 mbar	< 115 mbar	< 120 mbar
Bacteria retention	> 1.0 E7 per cm ² (<i>Pediococcus damnosus</i>)	> 1.0 E7 per cm ² (<i>Saccharomyces cerevisiae</i>)	> 1.0 E7 per cm ² (<i>Saccharomyces cerevisiae</i>)
Filter area per 10" cartridge	0.75 m ²	0.75 m ²	0.7 m ²

* The values are related to 5 minutes and are indicative as they depend on the volume of the housing upstream of the filter cartridge.

General data	
Application area	Final filtration of water, mineral water, wine, beer juices and other beverages, ideal as police filter prior to bottling.
Chemical resistance, allowed products	Withstands acids and alkalis, pH 1 to 14, alcohols, solvents, weak oxidizing cleaning solutions.
Chemical resistance, not allowed products	Not compatible with strong oxidizing agents, e.g. 98 % sulfuric acid, fuming nitric and bromic acid, CHC and aromatic solvents, e.g. benzene, toluene.
Food safety	European regulation 10/2011 and its amendments, regulations 1935/2004 and 1895/2005.
Quality standards	Produced under a certified quality system to guarantee traceability of manufacturing records and integrity testing results.
Packing unit	One cartridge per box.

CLAROX® membrane filter cartridges ordering information



Available micron ratings	
MP	0.2
MP/W	0.45, 0.65, 0.8
MP/B	0.45, 0.65
GM	1.2