

## VINOKLARIS

- Easy integrity testable
- Extended effective filtering area
- Repeatedly steamable in situ
- Sanitizable and regenerable
- Thermowelded construction
- EC-listed materials for Food contact
- FDA-listed materials per CFR21



VINOKLARIS pleated PES (Hydrophilic Polyethersulfone) membrane cartridges are specifically designed as sterilizing final filter for wine with interesting cost benefit ratio and great performance in cold microbiological stabilization.

The filter media is PES (Hydrophilic Polyethersulfone) membrane, pleated with upstream and downstream supports of polyester. The cartridges are steamable and sanitizer resistant and withstand regeneration cycles in hot water. Manufacturing is completed in a controlled environment; rigorous testing during the manufacturing process guarantee standards of high quality.

### MATERIALS OF CONSTRUCTION

<b>Filter media</b>	Asymmetric PES membrane
<b>Upstream supports</b>	polyester
<b>Downstream supports</b>	polyester
<b>Internal Core</b>	polypropylene
<b>External Cage</b>	polypropylene
<b>End caps / Adapters</b>	polypropylene

### FOOD-SAFETY

VINOKLARIS filter element materials meet (EU) regulation 10/2011 and its amendments, regulations (EC) 1935/2004 and 1895/2005.

### QUALITY STANDARDS

Produced under a certified Quality System to guarantee traceability of manufacturing records and integrity testing results.

### RECOMMENDED OPERATING CONDITIONS

- max. continuous temperature	65 °C
- max. cumulative time of steam sterilization	40 hours at 121 °C with cycles of 30 minutes
- sanitization with hot water	80 °C max
- sanitization with chemicals	can be sanitized by standard chemical agents
- max. differential pressure	5,0 bar at 25 °C
- recommended change out differential pressure	2,0 bar at 25 °C

CODE	ABSOLUTE FILTRATION RATING IN LIQUIDS	ACCEPTABLE LIMIT FOR PRESSURE HOLD TEST		TEST PRESSURE
		Nr. 1 30" cartridge	Nr. 8 30" cartridges	
AY	0,2 µm	0,07 bar	0,07 bar	2,4 bar
AL	0,45 µm	0,1 bar	0,1 bar	1,1 bar
AP	0,65 µm	0,1 bar	0,1 bar	0,9 bar
AS	0,80 µm	Not applicable		Not applicable
AZ	1,2 µm	Not applicable		Not applicable

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

### RECOMMENDED WINE FLOW RATE l/h 10" CARTRIDGE

Flow rates are indicative as they depend on the type of wine, sugar grade and prefiltration treatment used.

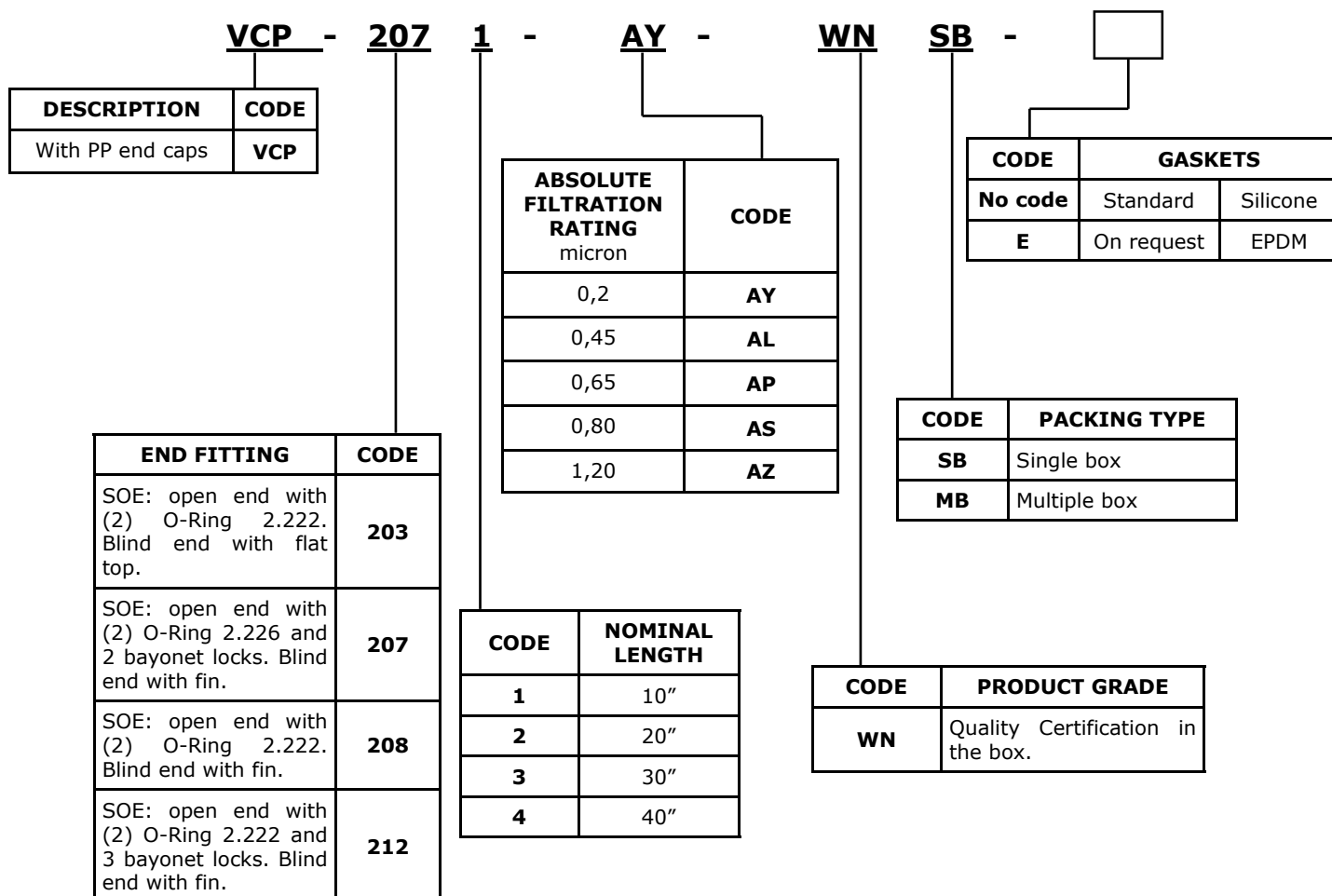
CODE	$\Delta P = 0,1 \text{ bar}$
<b>AY</b>	400
<b>AL</b>	500
<b>AP</b>	500
<b>AS</b>	550
<b>AZ</b>	550

### BACTERIAL RETENTION

VINOKLARIS cartridges are proven to retain microorganism reported in the table.

CODE	ABSOLUTE FILTRATION RATING micron	BACTERIAL RETENTION FOR 10" CARTRIDGE
<b>AY</b>	0,2	$\geq 10^{10}$ Brevundimonas diminuta in liquid
<b>AL</b>	0,45	$\geq 10^{10}$ Leuconostoc oenos in liquid
<b>AP</b>	0,65	$\geq 10^{11}$ Saccharomyces cerevisiae in liquid
<b>AS</b>	0,8	$\geq 10^{10}$ Saccharomyces cerevisiae in liquid
<b>AZ</b>	1,2	Not applicable

### VINOKLARIS ORDERING INFORMATION



Data contained in this bulletin are informative and subject to change without notice. User is responsible for determining whether the product is fit for particular purpose and suitable for User's method of application.

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Bea Technologies Spa Via Newton, 4 - 20016 Pero (Milano) ITALY  
Tel +39 02 339271 FAX +39 02 3390713 e-mail: [info@bea-italy.com](mailto:info@bea-italy.com)  
web: [www.bea-italy.com](http://www.bea-italy.com)