

MAHLE

Industrial Filtration

Filter cartridge
amaFine WM

1. Introduction

The amaFine WM membrane cartridges use a highly asymmetric polysulphone membrane which ensures high flow rates at very low pressure drops. The amaFine WM is specially developed for the filtration of demineralised and high purity water.

The highly asymmetric membrane provides longer on-stream life than conventional membrane media. The broad chemical compatibility makes it also very useful in other applications.



2. Features

- Highly asymmetric polysulphone membrane
- High capacities at low pressure drops
- Rated at > 99.9% efficiency (Latex Bead test)
- Pre-flushed with 18 MΩ.cm water optional
- Materials of construction are according to FDA requirements
- Cost effective membrane cartridge

4. Product/Performance specifications

Filter medium	: polysulphone membrane
Surface treatment	: hydroxypropylcellulose
Support medium	: polypropylene
Hardware	: polypropylene
End cap seal	: thermally welded
Gaskets/O-rings	: silicone, EPDM, Buna-N, Viton®, PTFE encapsulated silicone

Dimensions

External diameter	: 66 mm
Length	: see ordering information
Filtration area	: 0.6 m ² /10" cartridge

Maximum recommended differential pressure

Design	: 4.8 bar at 50 °C
Operating	: 3.4 bar at 82 °C
Maximum operating temperature	: 82 °C

3. Sanitation and Food safety

Sanitisation

The cartridges can be sanitised in place with the standard chemical agents. Food safety All materials used are listed in the FDA CFR21 regulations.

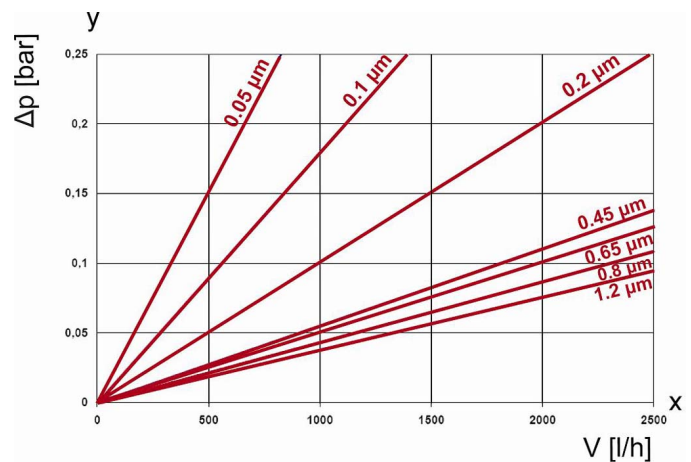
Bio safety

The components of the filter cartridges (excl. O-rings and gaskets) pass the USP Biological Reactivity and Chemical-Physical tests for CLASS VI plastics.

Rinse up volume

The cartridges will rinse up to 18 MΩ.cm in less than 6 minutes at a flow rate of 600 l/h.

5. Water flow rate for 10" cartridge



x: Flow rate
y: Clean pressure drop

6. Ordering code

Example

Cartridge type	Micron rating	Nominal length [inch]	Hardware material	Cartridge style	O-Ring material	Option
amaFine WM	0.2	10	U	X7	S	
	0.05	9.75 (248 mm)	U=polypropylene	X3	S=Silicone V=Viton® N=Buna-N E=EPDM T=PTFE encapsulated silicone	F=Pre-flushed
	0.1	10 (254 mm)		X4		
	0.2	19.5 (495 mm)		X7		
	0.45	20 (508 mm)		X8		
	0.65	29.25 (743 mm)				
	0.8	30 (762 mm)				
	1.2	40 (1016 mm)				

X3 = SOE with external 222 O-rings, X4 = DOE with flat gaskets, X7=SOE with fin end, bayonet and external 226 O-Rings, X8=SOE with fin end and external 222 O-Rings

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10/2009