

Levitated Magnetic Mixer

Alfa Laval MM UltraPure, Magnetic Mixer

Application

Alfa Laval magnetic mixers offer effective mixing for applications with high demands on hygienic and aseptic design.

Working principle

The patented levitated bearing makes the mixer fully drainable and able to run dry. The performance ranges from low shear mixing at around 10 rpm to high intensity mixing with vortex at up to 600 rpm. Depending on the mixer task the range covers from 30 liters to 25000 liters of nominal batch size.

Standard design

The Alfa Laval MM UltraPure mixer consists of a weld plate and a mixer unit incl. gear drive. The weld plate is ordered and delivered separately to enable early preparation of the mixer installation. The mixer must be controlled by a VFD unit matched perfectly with the mixer. The VFD is pre-programmed for optimum performance.

Any brand of locally sourced VFD may be used under observation of the mixer manual

TECHNICAL DATA

Product wetted surface finish: Ra <0.5 µm Mech. polish polished

Working pressure:-1 to 7 bar (g)

Voltage and frequency

Please contact Alfa Laval for details

Protection class

AC VFD stand alone: IP66 AC VFD enclosure unit: IP20

Motor sizes

MM 338-4/6: 0.37 kW MM 434-8/10/12: 1.1 kW

Certificates

Standard delivery includes:

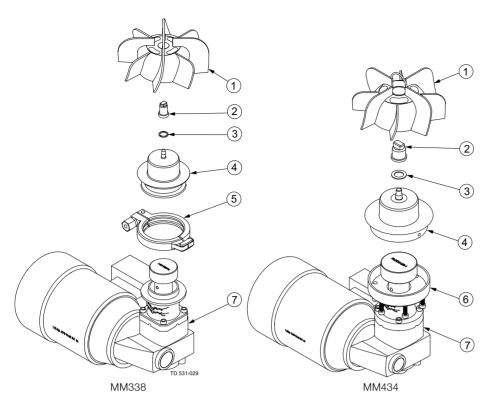
- 3.1 Materials Certificates, EN10204 for all product wetted parts
- USP Class VI <88> certificates for Zirconia YTZP and ISOLAST
- FDA Declaration of conformity for elastomers and ceramics
- USDA-H1 conformity statement (FDA) for gear drive oil
- TSE declaration (Transmissible Spongiform Encephalopathy) / ADI declaration (Animal Derived Ingredients)
- USP Class VI <88> certificates on request for Silicon Carbide parts



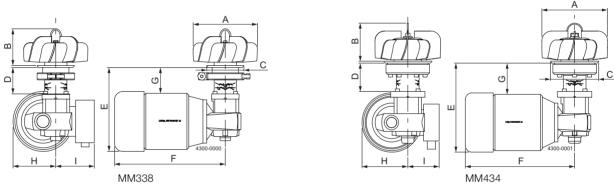
PHYSICAL DATA

Weight

MM 434: 30 kg



- Impeller
 Male bearing
 Gasket
- 4. Weld plate
- 5. Clamp ring (only MM338)
- 6. Bolt connection (only MM434)7. Drive unit

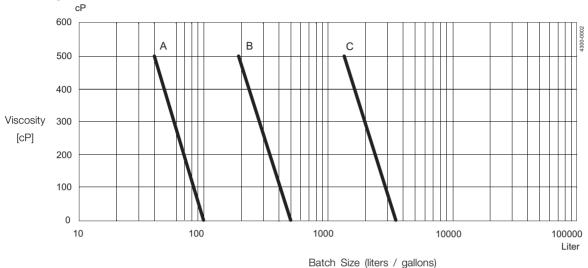


Dimensions (mm)	MM 338-4	MM 338-6	MM 434-8	MM 434-10
Α	102	155	203	254
В	89	89	118	183
С	90	90	149	149
D	64	64	88	88
Е	203	203	275.1	275.1
F	268	268	338	338
G	62.5	62.5	96.6	96.6
Н	103.5	103.5	141.5	141.5
I	93	93	97	97

Machine Selection

This chart is valid for machine selection under the following conditions:

- Liquid / liquid mixing
- Mixture viscosity less than 500 cP
- Tank height to diameter ratio (h/d) between 1 and 1.5
- For storage tanks volumes up to 25000 are possible. Please contact Alfa Laval



Α	В	С
MM 338-4 600 RPM	MM 338-6 550 RPM	MM 434-8 390 RPM
		*MM 434-10 185 RPM

^{*}For gentle product treatment

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