I Application

The range of magnetic agitators BMA is a highly hygienic solution for the applications of dispersion, dissolution, homogenization and mixing in the pharmaceutical, biotechnological and food-processing industries.

Due to the magnetic coupling they are especially useful because they avoid any possible contact of the product with the atmosphere.

I Operating principle

When solids or liquids are added into the vortex created by the agitator, they are transferred straight to the rotor.

The rotor transforms the axial movement of the medium into a radial acceleration from the centre of the rotor towards the wall of the vessel.

The added medium is well distributed ensuring a homogeneous mixing of all the volume.

It is strongly advised to assemble the agitator in eccentric position in order to minimize vortex and to avoid the installation of deflectors.

I Design and features

Magnetic coupling. No leakage.

Designed for cleaning and sterilization (CIP and SIP).

Very low particle generation.

Bottom mounted. Excellent for suspensions.

Practical when there is no much space at the top of the tank.

Easy disassembly: neither lifting device nor special maintenance support required.

Autoclavable rotor.

I Technical specifications

Materials:

- Parts in contact with the product: AISI 316L
- Bushing: SiC
- O-ring: FEP for models up to BMA-225
  EPDM for other models

Bottom Magnetic Agitator
I Technical specifications

Surface finish: $Ra \leq 0.5 \, \mu m$

Operating limits:
- Operating temperature: $5^\circ C - 150^\circ C$
- Vessel pressure: from -1 up to 10 bar
- Voltage: $230/400 \, V \, AC \, 50 \, Hz$
- Protection: IP 55
- Maximum mixing volume: 30,000 l
- Maximum working viscosity: 10 cP*

* For other viscosities, please contact INOXPA.

I Options

Surface finish: electro polishing.
- Rotational sensor.
- ATEX certification.
- Control panel.

I Dimensions

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* Recommended volume for gentle agitation for water type liquid, viscosity < 10 cP and density 1.000 kg/m³.
* For further information, please contact INOXPA.