

## DATA SHEET FOR bio-m<sup>®</sup> MAGNETIC AGITATOR TYPE BMR 300

### TYPICALLY USED FOR:

Waterlike liquids up to a viscosity of 250 mPas (above please speak to zeta)  
Homogenization, improving of heat transfer, dissolution of solids  
(other tasks please speak to zeta)  
Depending on the task, for vessel contents between 250 l and 750 l

### TECHNICAL DATA OF THE AGITATOR

#### DRIVE SYSTEM:

Worm geared motor, with 3 PLC, for operation under frequency control (not included)

3 x 230/400 V, 50 Hz, IP 55, Iso F, not Ex-proof

Motor power: 0,25 kW

Speed at 50 Hz: 399 rpm                      VFD speed range: 50 - 550 rpm

#### MAGNETIC COUPLING:

The torque is transmitted through the hermetically sealed containment shell by means of permanent magnets. The agitator head runs on ceramic bushes made from SiC vs ZrO<sub>2</sub>. The open design and the big gap between containment shell and agitator head make sure that CIP cleaning is perfect (Qualification documents available)

#### DIMENSIONS:

Magnetic impeller, $\varnothing$ d2:	150 mm
Weld plate $\varnothing$ a1:	105 mm
Height H, approx.:	235 mm
incl. Intermediate flange (70 mm)	
Length L approx. :	245 mm

#### M O C, PRODUCT WETTED:

1.4435, ground to Ra < 0,8  $\mu$ m, e-polished

O-Rings: EPDM, FDA-conforming

#### FURTHER REMARKS:

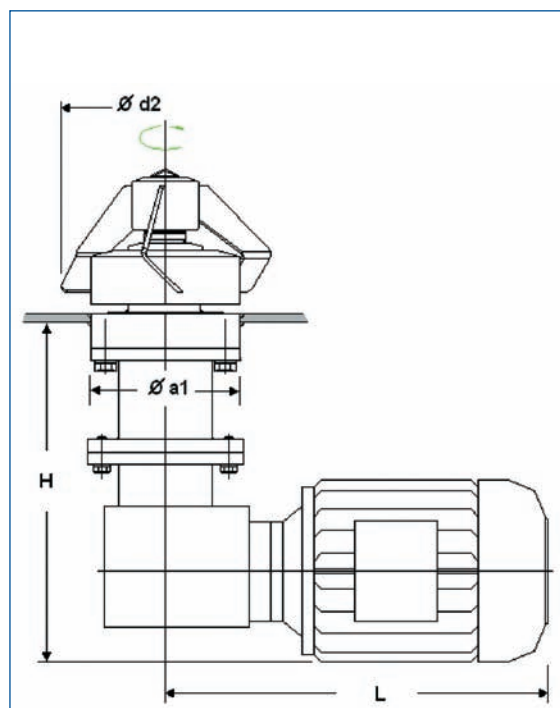
Painting, to zeta standard: RAL 5015 blue

Weight approx.: 20 kg

#### OPTIONS:

- speed sensor (signal processing by others)
- explosion proof design (ATEX)
- without intermediate flange
- different impeller types
- design for bio reactors (type bio-m<sup>®</sup> BMR 300 F), with shaft and multistage impeller system

### PRINCIPLE DRAWING \*



\*) CAD as dwg- or dxf-file available (in case of purchase order)

