

## DATA SHEET FOR bio-m<sup>®</sup> MAGNETIC AGITATOR TYPE BMR 20.000

### 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 15000 l and 45000 l

### TECHNICAL DATA OF THE AGITATOR

#### DRIVE SYSTEM:

Bevel geared motor, with 3 PLC, for operation under frequency control (not included)  
3 x 400 V, 50 Hz, IP 55, Iso F, not Ex-proof  
Motor power: 7,5 kW  
Speed at 50 Hz: 190 rpm VFD speed range: 24 - 240 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:	500 mm
Weld plate $\varnothing$ a1:	250 mm
Height H approx.:	585 mm
incl. intermediate flange	(150 mm)
Length L approx. :	650 mm

#### M O C, PRODUCT WETTED:

1.4435, ground to Ra < 0,8  $\mu$ m, e-polished  
O-Rings: EPDM, FDA-conforming

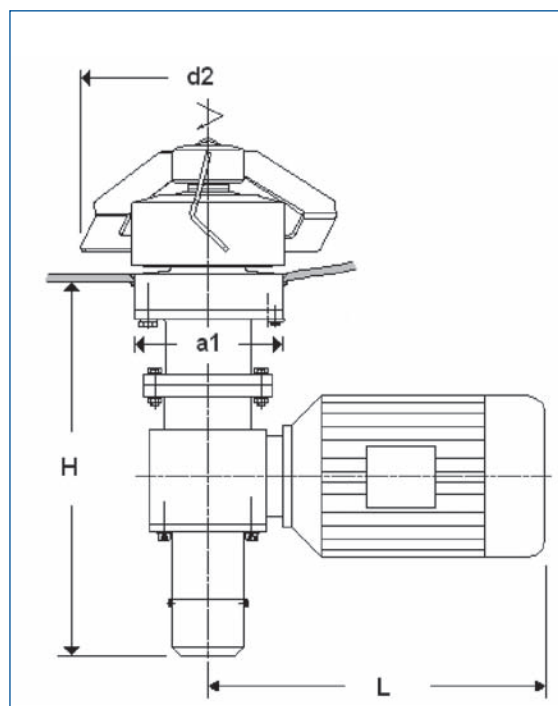
#### FURTHER REMARKS:

Painting, to zeta standard: RAL 5015 blue  
Weight approx.: 150 kg  
Lowering device: to separate the magnetic field of the magnetic rotors, for easy mounting

#### OPTIONS:

- speed sensor (signal processing by others)
- explosion proof design (ATEX)
- different impeller types

### PRINCIPLE DRAWING \*



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

