

## DATA SHEET FOR bio-m<sup>®</sup> MAGNETIC AGITATOR TYPE BMR 850

### 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 1000 l and 3000 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: 0,55 kW  
Speed at 50 Hz: 416 rpm VFD speed range: 50 - 475 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:	200 mm
Weld plate $\varnothing$ a1:	140 mm
Height H approx.:	280 mm
incl. intermediate flange	(100 mm)
Length L approx. :	285 mm

#### M O C, PRODUCT WETTED:

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

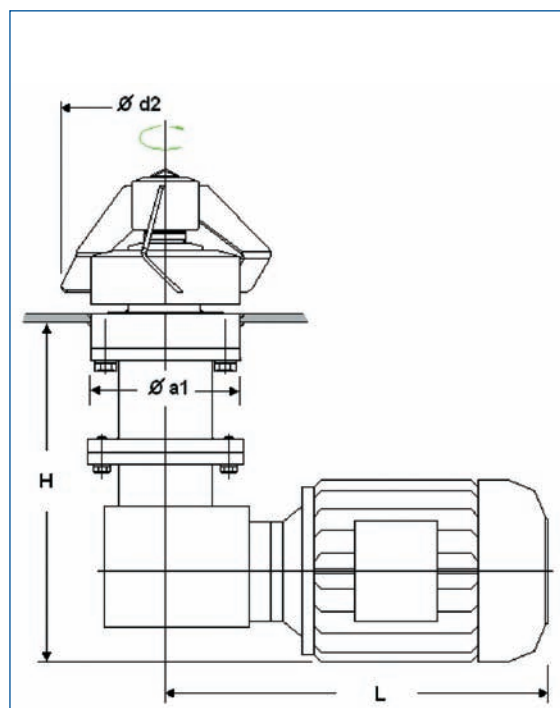
#### FURTHER REMARKS:

Painting, to zeta standard: RAL 5015 blue  
Weight approx.: 27 kg

#### OPTIONS:

- speed sensor (signal processing by others)
- explosion proof design (ATEX)
- different impeller types
- design for bio reactors (type bio-m<sup>®</sup> BMR 850 F), with shaft and multistage impeller system

### PRINCIPLE DRAWING \*



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

