

DATA SHEET FOR bio-m[®] MAGNETIC AGITATOR TYPE BMR 4000

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 3500 l and 10000 l

TECHNICAL DATA OF THE AGITATOR

DRIVE SYSTEM:

Worm 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: 1,5 kW
Speed at 50 Hz: 235 rpm VFD speed range: 26 - 260 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 ZrO₂. 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:	350 mm
Weld plate \varnothing a1:	200 mm
Height H, approx.:	450 mm
incl. intermediate flange	(100 mm)
Length L approx. :	365 mm

M O C, PRODUCT WETTED:

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

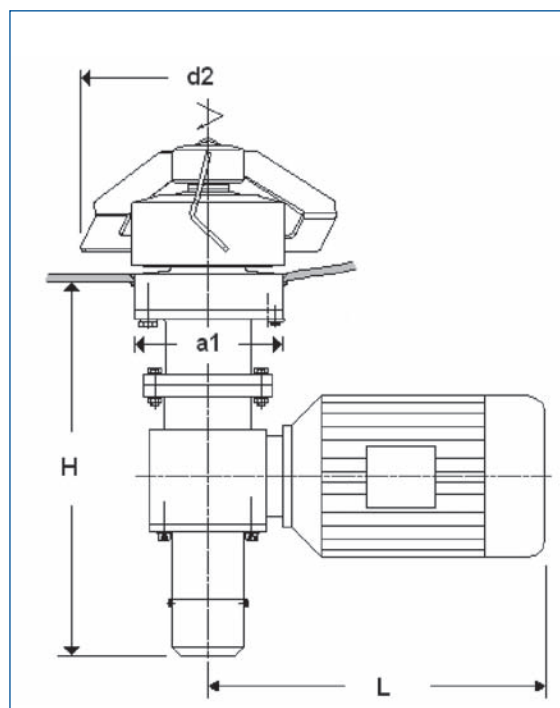
FURTHER REMARKS:

Painting, to zeta standard: RAL 5015
Weight approx.: 80 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
- design for bio reactors (type bio-m[®] BMR 4000 F), with shaft and multistage impeller system

PRINCIPLE DRAWING *



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

