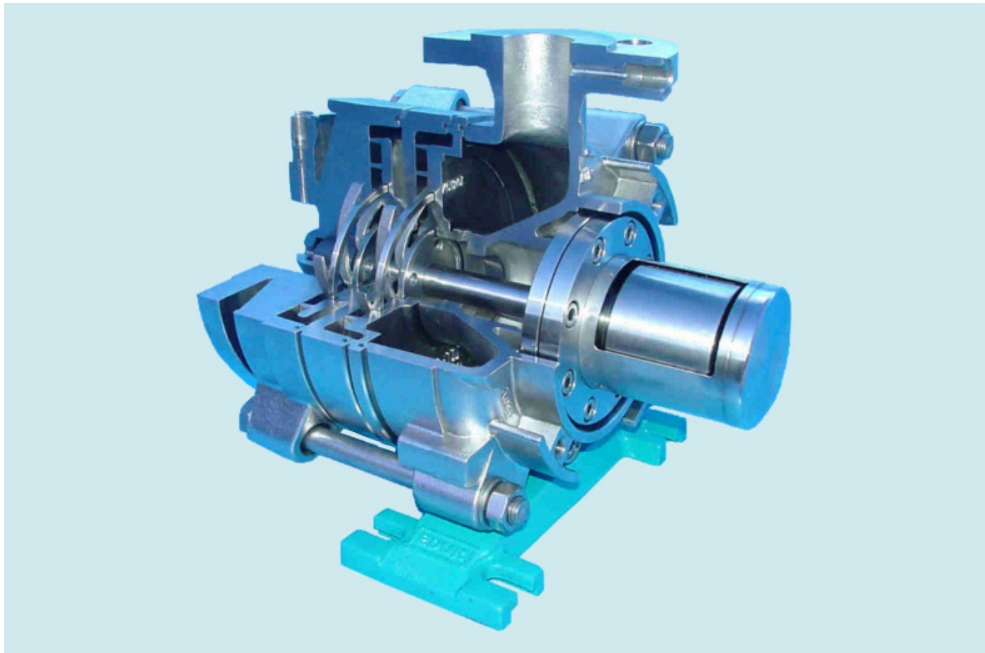



Multistage Non-selfpriming Centrifugal Pumps with Magnetic Coupling - Type PBM / LBM / NHM / NMBL

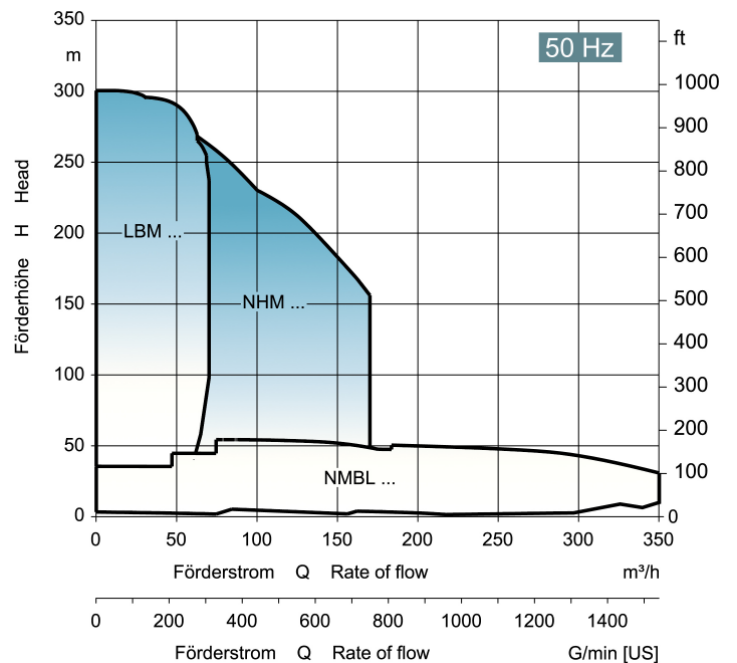


 **Magnetically coupled pumps for the process industry**

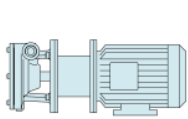
Pump units with magnetic coupling do meet the now higher requirements for environmental protection when handling liquids being harmful to the environment, toxic and explosive as well as for high temperature applications. The driving torque of the motor is transmitted through the can to the output section by way of magnetic forces acting on the pump shaft. This can does separate the pump inside area hermetically from the atmosphere. The pump shaft bearing is done by medium-lubricated sliding bearings. Leakage as with conventional shaft sealings is excluded.

The EDUR modular construction system allows a maximum flexibility with regard to the pump configuration.

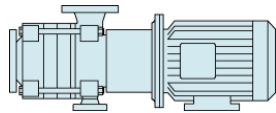
Upon request EDUR pumps also can be equipped with lossless magnetic couplings to meet the increasing demands of energy efficiency. A plastic can does avoid the formation of eddy current losses.



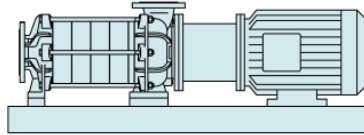
Multistage Non-selfpriming Centrifugal Pumps with Magnetic Coupling - Type PBM / LBM / NHM / NMBL



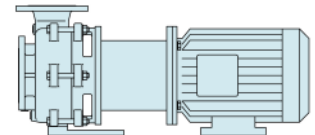
PBM



LBM



NHM



NMBL



Advantages

- Hermetically sealed
- Non-contact
- Wear-less
- Maintenance-free
- Operating safety
- Long durability
- Tested complete unit
- High energy efficiency by means of plastic can

Certificates and Reports

- Factory test report DIN EN 10204 – 2.2
- Acceptance test certificate DIN EN 10204 – 3.1
- Certificate maritime register
- Inspection certificate acc. to DIN EN 9906
- Gost certificate
- Conformity declaration acc. explosion protection guideline 94/9/EG (ATEX)

Constructional Features

Standard Design

- Segmental type horizontal
- Pump and motor positively centered by lantern

Ranges of Application

- Operating pressure up to 25 bar (40 bar)
- Temperature -40°C up to 220°C

Pump Materials

- Grey cast iron
- Nodular cast iron
- Stainless steel

Permanent Magnetic Coupling System

- Permanent magnets Sm₂Co₁₇ or NdFeB
- Inside rotor completely enclosed made of material 1.4571
- Can material 1.4571, jacket area material 2.4610
- High efficiency option with carbon fibre reinforced PEEK can
- SSIC ceramic sliding bearing (axial bearing and radial bearing)

Standard Drive

- IEC 3-phase A.C. motors energy efficiency class IE2 (IE3 upon request)
- Enclosure IP 55, insulation class F
- up to 4,0 kW 230 / 400 V, from 5,5 kW 400 V Δ, 50 Hz
- ATEX executions upon request