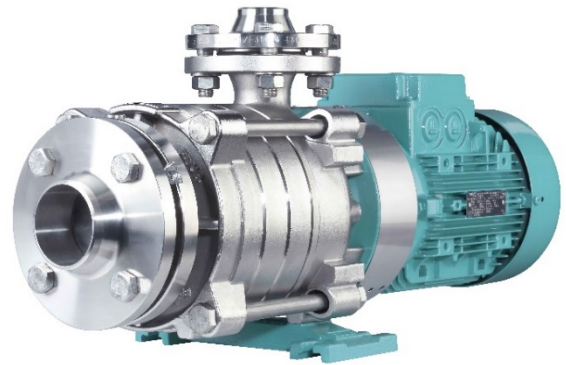


MULTIPHASE-PUMPS

PBU EB LBU

Connection- ϕ [mm] from ... up to	19 ... 80
Stages	1 + Multistage
Execution	Centrifugal
Construction	Horizontal
Design/type	Bloc
operating pressure (bar)	Up to 40bar
Temperature ($^{\circ}$ C)	From -40 to +140
Viscosity (mm^2/sec)	Up to 1
Solid transport	-
max. capacity (m^3/h)	65
max. head (m)	250



Horizontal centrifugal pumps for the transport of liquid-gas mixtures and for the enrichment of liquids with gases. A dispersion with very fine bubbles is being achieved. Therefore the multiphase pumps are also acting as dynamic mixer with high shearing forces.

Some main applications are water and wastewater treatment, dissolved air flotation, neutralization, biofuel plants, bio-reactors, ozonation, crude oil water separation on oil fields and oil rigs as well as general process technology.

High Energy-Efficiency

- optimal enrichment and mixing of liquids with gases
- high degree of dispersion
- low velocity of flow
- optimized impeller approach flow
- low internal friction losses

Technical Superiority

- open impellers without axial thrust
- compensation of radial forces by means of diffuser
- direct gas input acc. to VDMA 24430

Process Reliability

- gas contents up to 30 %
- stable creation of micro bubbles

Easy Installation

- modular construction for customized solutions
- bloc-design

Application

- operating pressure up to 40 bar
- temperature -40 $^{\circ}$ C to +140 $^{\circ}$ C
- viscosity up to 115 mm^2/s

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DIN EN ISO9001



SCC**



DGRL 97/23/EG



ATEX



ASME



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