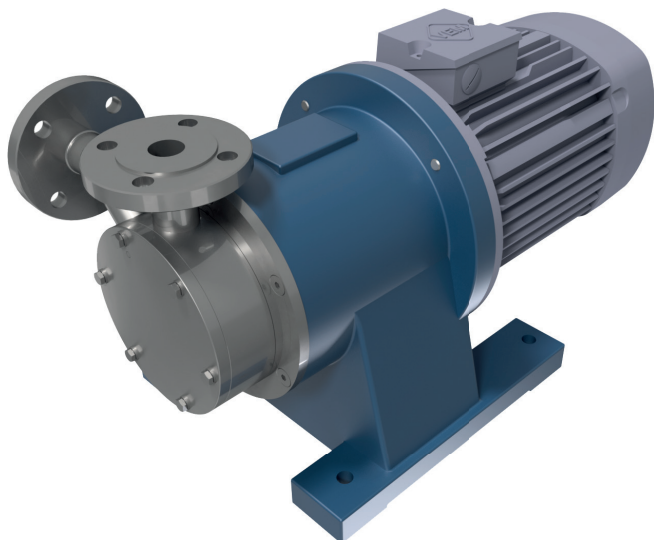


# MAGNETIC DRIVEN REGENERATIVE TURBINE PUMP

## Series MTA

### MTA 25, 37, 49, 55, 78, 1011, 2020



#### TECHNICAL DATA

Nominal Speed:	2900 1/min
Capacity flow, max. / head, max.:	
MTA 25:	1,8 m <sup>3</sup> /h / 25m
MTA 37:	2,8 m <sup>3</sup> /h / 35m
MTA 49:	4,2 m <sup>3</sup> /h / 62m
MTA 55:	4,7 m <sup>3</sup> /h / 77m
MTA 78:	6,5 m <sup>3</sup> /h / 62m
MTA 1011:	10,0 m <sup>3</sup> /h / 97m
MTA 2020:	17,0 m <sup>3</sup> /h / 174m
Design Pressure:	16 ... 250 bar
Temperature:	-150 °C ... 315 °C
S.G., max.:	1,8 kg/dm <sup>3</sup>
Viscosity, max.:	200 cP

#### PROCESS NOZZLES

MTA 25:	G1/2" (f) / DN15
MTA 37:	G3/4" (f) / DN20
MTA 49:	G1" (f) / DN25
MTA 78:	G1" (f) / DN25
MTA 1011:	G1" (f) / DN25
MTA 2020:	G1 1/2" (f) / DN40

#### MATERIALS

Housings: AISI316L, HC276, Duplex, Titan  
O-Rings: EPDM, FKM, FFKM, FEP  
Bearings: PTFEC/G, Graphite, SiC  
Shaft: SiC, AISI316L

\*custom materials or executions available upon request

#### APPLICATIONS

Main applications for this particular type of pumps are:

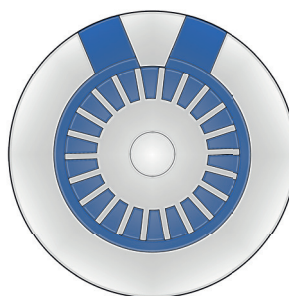
- Booster pump or CIP pump in chemical, food- or pharmaceutical industry.
- Circulation pump for cooling liquids with high temperature delta.
- Filterpump in the electroplating industry or reversible osmosis.

#### FEATURES / BENEFIT

- Different sizes available:
- MTA25, 37, 49, 55, 78, 1011, 2020
- High head, low flow
- Leak-free
- Maintenance-free
- Can handle up to 20% entrained gas
- Reversible
- Heavy duty design for industrial applications
- Casing is made from solid block material
- Compact close coupled design
- Liquid gases, solvents. Toxic fluids and explosive fluids.

#### PRODUCT DESCRIPTION

MARCH Magnetically Coupled Regenerative Turbine Pumps are suitable for leak-free transport of aggressive or toxic liquids and fluids which are harmful to the environment. Especially designed for media which need to be pumped with a low flow rate and a high discharge head. The magnetic coupling guarantees an absolutely impermeable hermetic cabin of the pump. At the same time the construction of the pump allows a transport of gas content in the pumped liquid up to 20 Vol % without any problem. For applications in food- and pharmaceutical industries, pumps with electrolytic polished surfaces are available.



A large number of turbine vanes produce comparably high pressure by transport of small quantities. The friction bearings of the pump are finished with side channels so that the gas in the fluid can be transported without causing dry running. The transmission of energy in the driving gear in the hydraulic part is a result of permanent magnets which make the pumps leak-free and maintenance-free. The pumps will be manufactured in the appropriate compact close coupled block design, for applications with high or low temperatures the pump is available as long coupled process design pump with base frame skid. The pump is also available in the newest ATEX execution