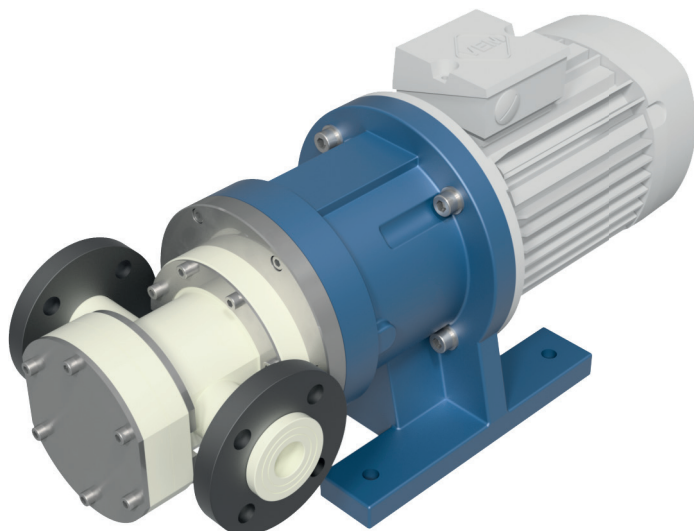


MAGNETICALLY COUPLED, NON-METALLIC GEAR PUMPS

Series TEF-MAG®

TEF-MAG 1501



TECHNICAL DATA

Nominal speed:	1450 1/min (50Hz) 1750 1/min (60Hz)
Nominal flow:	1375 l/h (363 us gph) 1675 l/h (442 us gph)
Differential pressure, max.:	10 bar (145 psi)
Design pressure:	PN 16 bar (232 psi)
Temperature, max.:	65°C (149°F)
Density, max.:	1,9 kg/dm ³
Viscosity, max.:	5000 cP
NPSHR:	0,5 m
Drive power:	1,5 kW

APPLICATIONS

The pumps have proven their performance in every application that requires lower flow rates and high discharge pressures in combination with corrosive liquids and pulsation-free supplies.

Typical Applications:

- Metering corrosive catalysts in Biodiesel Plants
- Waste Water Treatment, neutralisation, flocculation
- Environment Engineering
- Metering Applications
- Plant Engineering
- Equipment Engineering
- Pharmaceutical-, Medical-, Bio- Engineering

CONNECTIONS

Threaded:	G1" female
Flanged:	DN25 PN10/16
	ANSI 1"

MATERIALS

Housings: PP, PE, PVC, PVDF, PEEK
O-Rings: EPDM, Viton, Kalrez
Shafts: Al₂O₃ >99%, SiC
Gears: PTFEC, PVDF, PEEK
Bearings: PTFEC, Graphite, PEEK, SiC

FDA compliant materials are available upon request.

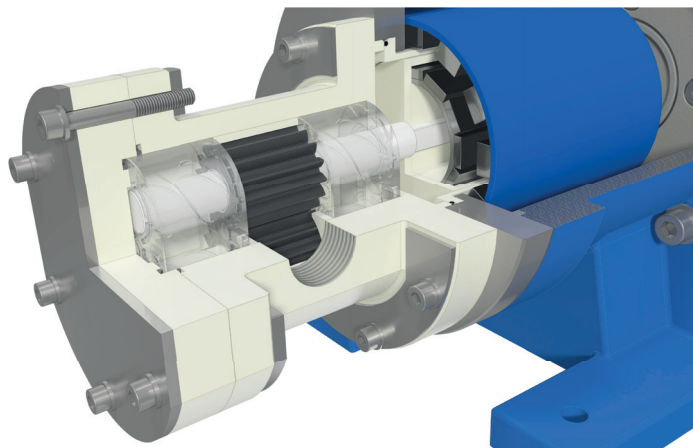
FEATURES AND BENEFITS

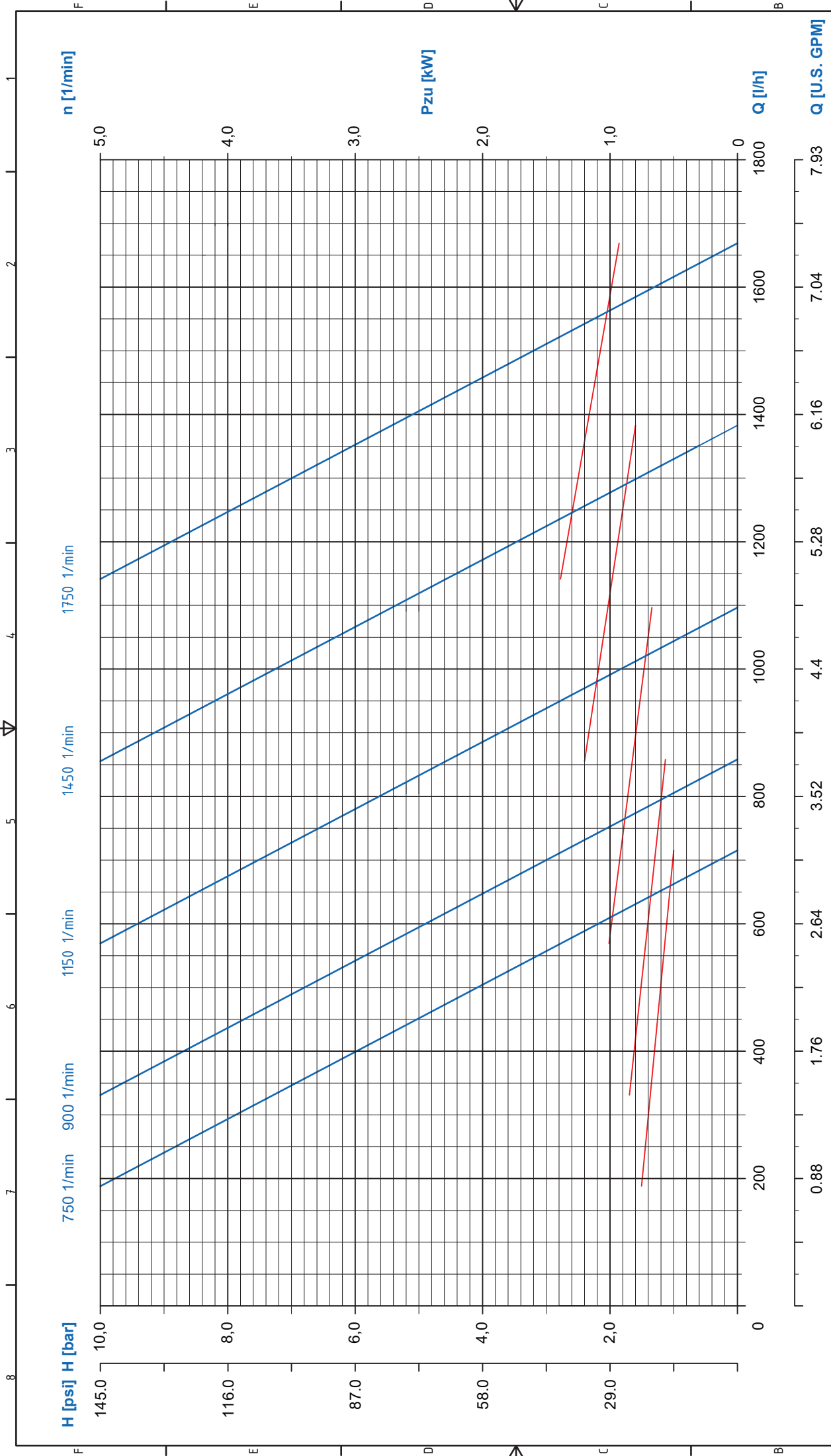
- European Patent No. 3786416
- USA Patent No. US 10,189,005 B2
- No need in expensive high alloys like Duplex, Hastelloy C or Titanium
- Rotary positive displacement pump
- External gear pump
- Nearby pulsation free
- Leak-free
- Magnetically coupled
- Low NPSHR-value
- Designed for Industrial Heavy Duty
- Corrosion resistant
- Self-priming (wet)
- Dry-run capable
- Small and compact design
- High discharge pressures
- Low flow rates
- Integrated Variable Frequency Drive (available on request)
- Pump acc. to ATEX 2014/34/EU

PRODUCT DESCRIPTION

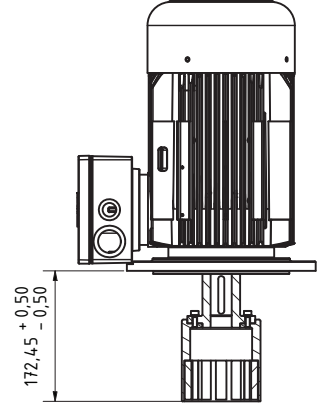
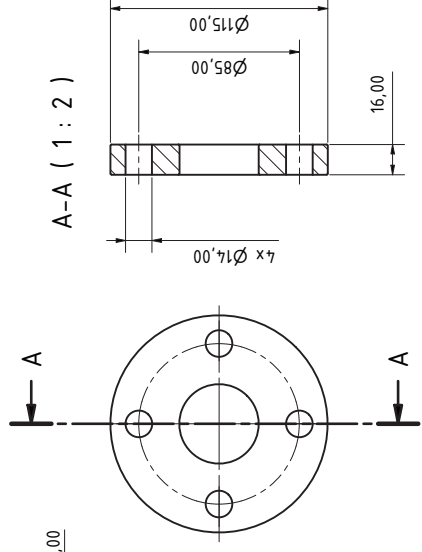
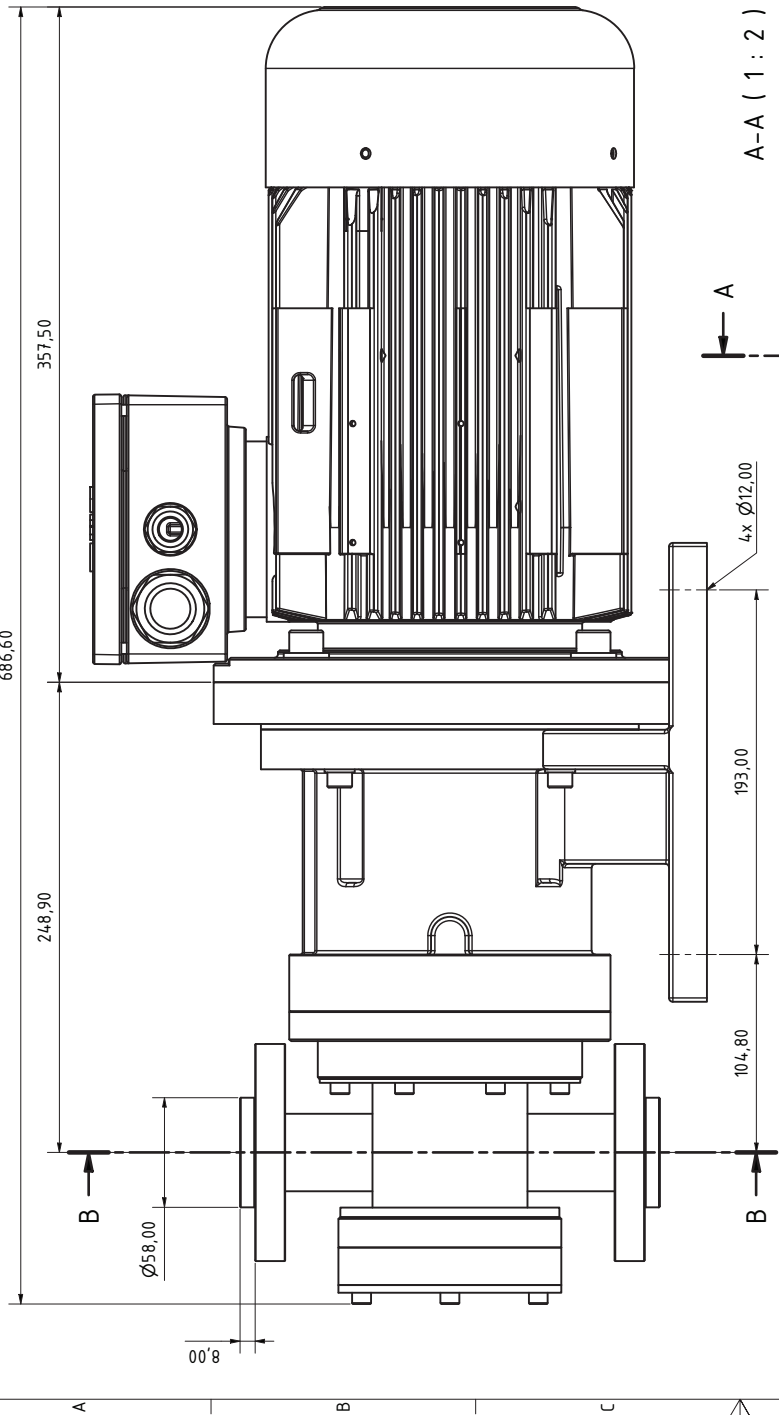
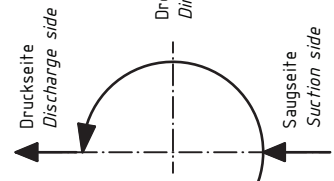
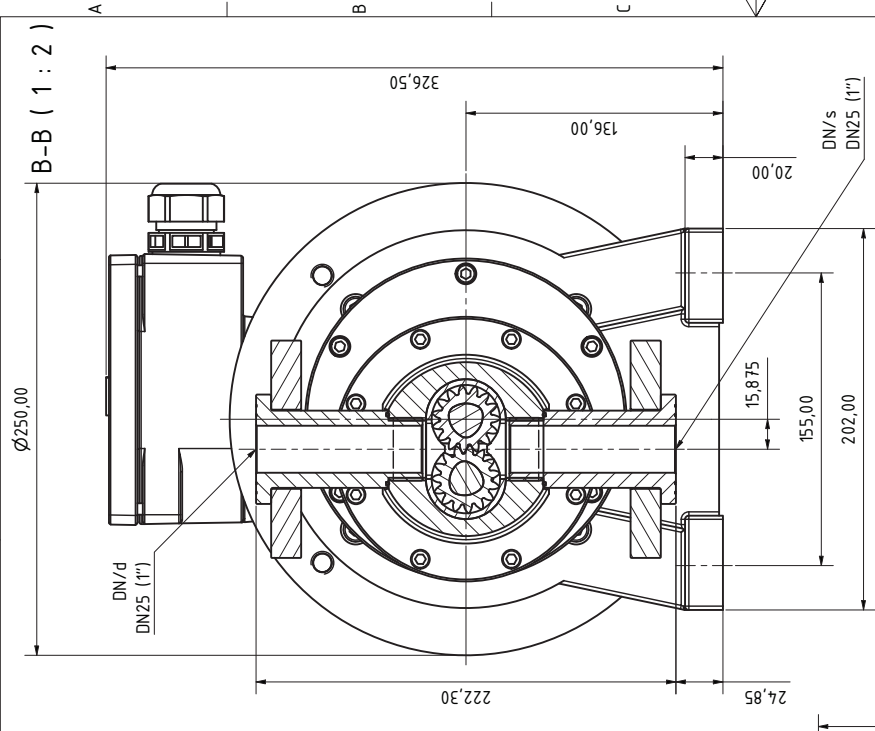
MARCH Series TEF-MAG® gear pumps are chemical resistant, non-metallic, rotating positive displacement pumps, external gear type and magnetically coupled. TEF-MAG® gear pumps generate low volumetric flows with middle to high differential pressures and approximately no pulsation. The pump housings are machined from chemical resistant solid block polymers like PP, PE, PVC, PVDF or PEEK. The internal hydraulic parts like gears and shafts are also made of highly corrosion resistant non-metallic materials. The power transmission of drive and pump happens in a contactless way with strong NdFeB permanent magnets. So the pump is able to work without any mechanical shaft seals, which guarantees save supplies without any leakage of corrosive, toxic and explosive fluids.

Pumps for potentially explosive ATEX Zones 1 or 2, are available in non-metallic materials





KENNLINIEN / PERFORMANCE CURVES			
Series	TEF-MAG		
Pump Size	TEF-MAG 1500		
Fluid Viscosity	1 mm ² /s	Fluid Density	1 kg/dm ³



- ABMESSUNGEN
in mm
- * kann bei anderen Motorfabrikaten abweichen
- DIMENSIONS
in mm
- * *may change with different motor manufacturer*
- ANSCHLÜSSE
Losflansch DN25 PN16 – PP-ST oder G1" Innengewinde
Saug- und Druckseite abhängig von Drehrichtung.
Pumpe kann reversibel eingesetzt werden.

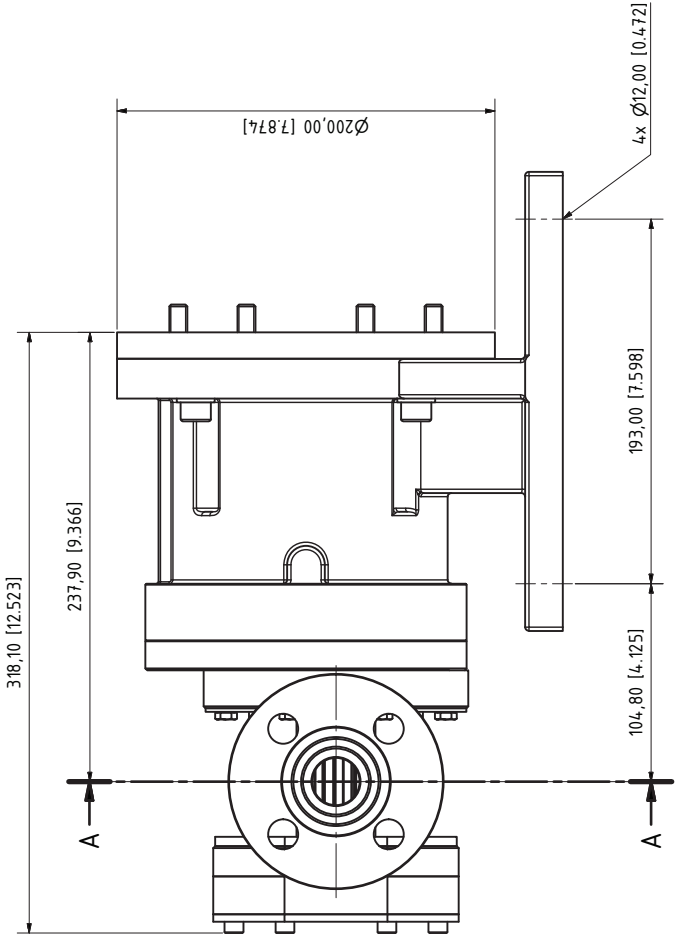
- CONNECTIONS
Lap Joint Flange DN25 PM16 – PP-ST or threaded G1" female
Suction and discharge side depends on direction of rotation.
Pump is reversible.

- ANTRIEB
Explosionsgeschützter Drehstrom-Asynchronmotor mit Käfigläufer
Baugröße / Form: BG100 B5
Fabrikat / Typ: HEW DE x100
Zündschutzart: *Ex db eb IIC T4 Gb*

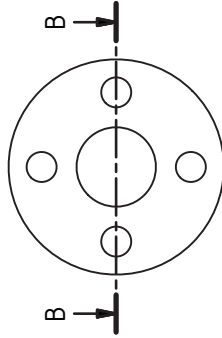
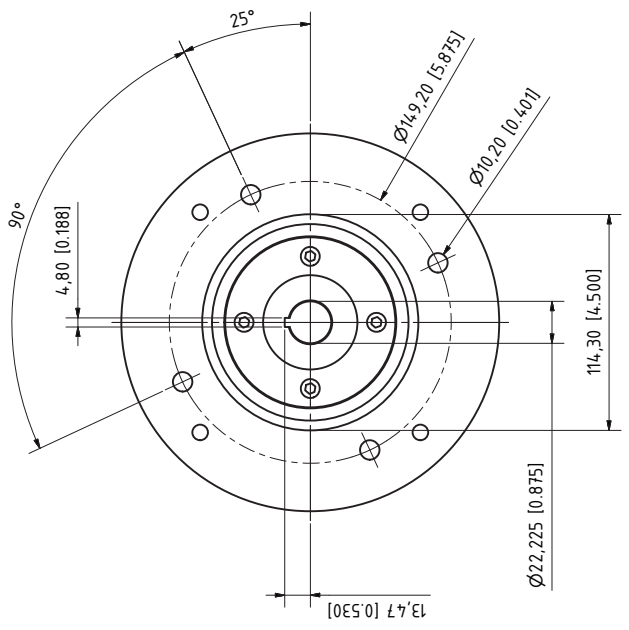
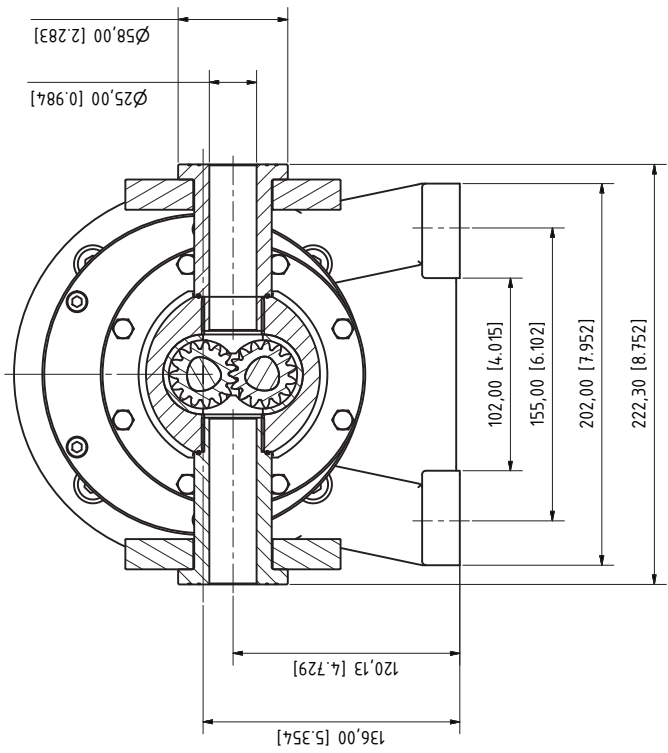
- DRIVE
Explosion-proof TEFC three phase asynchronous squirrel cage electric motor
Size: IEC 100 B5
Type: HEW DEX100
Ignition protection class: Ex db eb IIC T4 Gb

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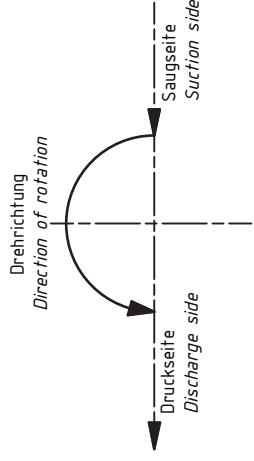
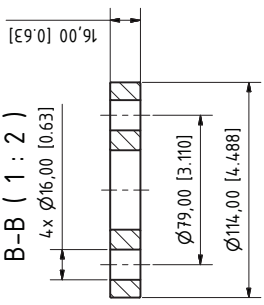
A-A (1 : 2)



DIMENSIONS
mm [inch]

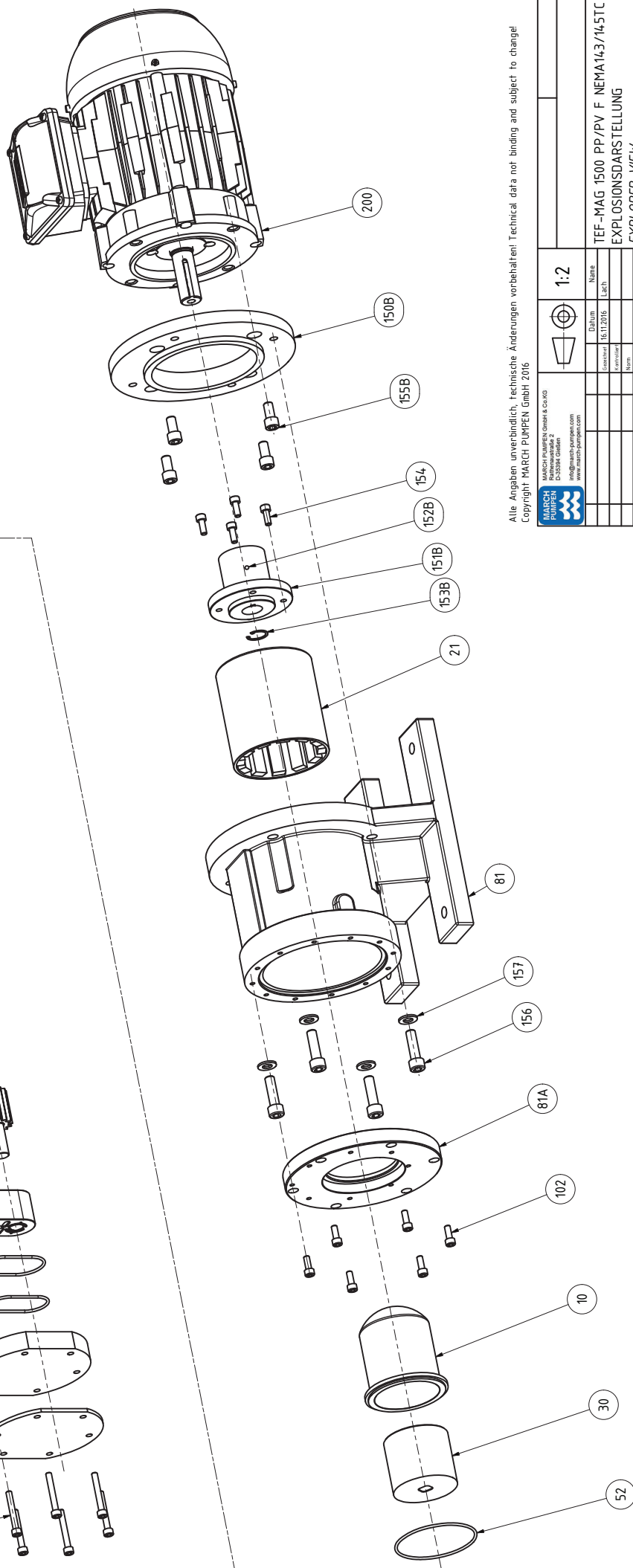
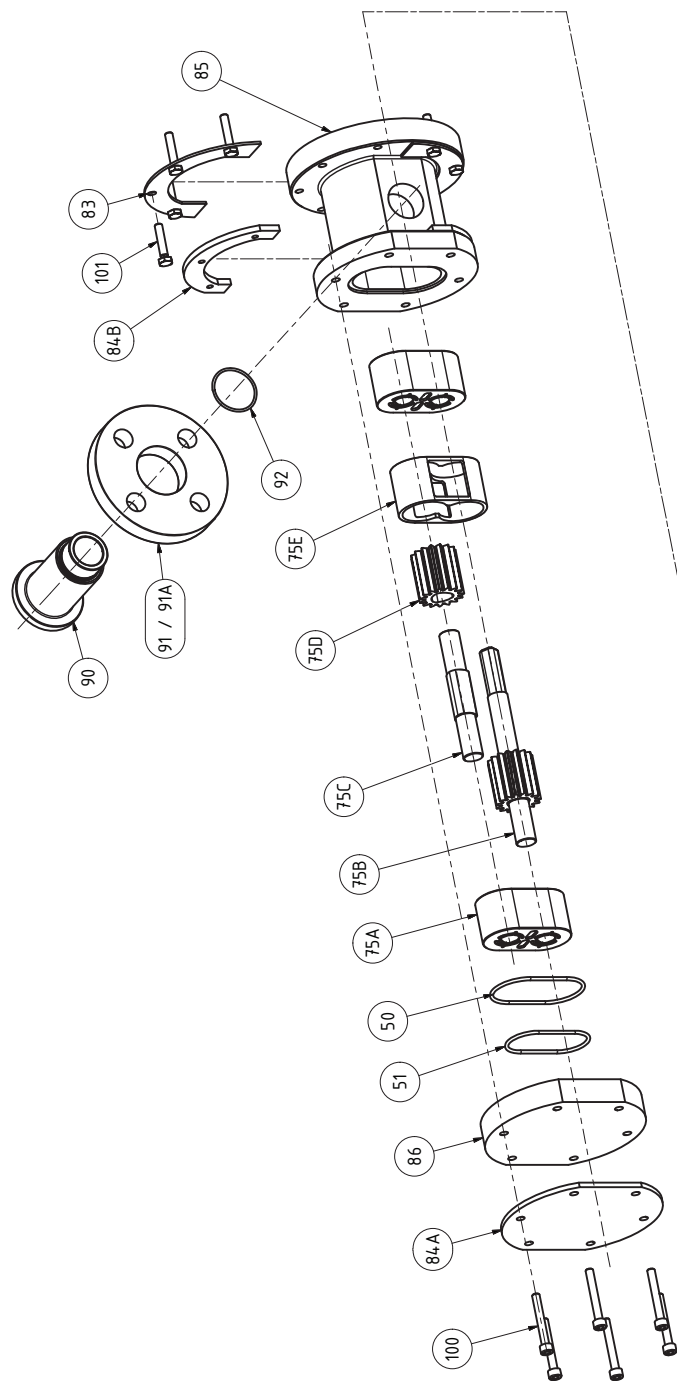
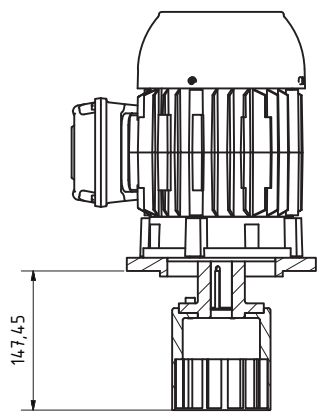
CONNECTIONS
Lap Joint Flange ANSI 1"
- 150lbs - PP-ST
or
1" BSP female thread
Suction and discharge side
depends on direction of rotation.
Pump is reversible.

B-B (1 : 2)



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