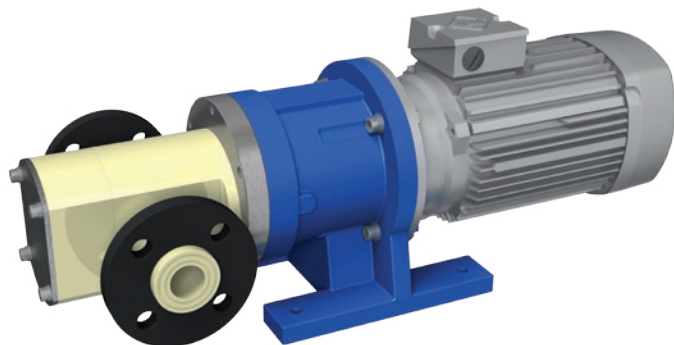


MAGNETICALLY COUPLED, NON-METALLIC GEAR PUMPS

Series TEF-MAG®

TEF-MAG 3500



TECHNICAL DATA

Nominal speed:	1450 1/min (50Hz) 1750 1/min (60Hz)
Nominal flow:	3650 l/h (965 us gph) 4650 l/h (1228 us gph)
Discharge pressure, max.:	10 bar (145 psi)
Design pressure:	PN 16 bar (232 psi)
Temperature, max.:	65°C (149°F)
Density, max.:	1,9 kg/dm³
Viscosity, max.:	10000 cP

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 1/4" female
Flanged:	DN32 PN16 ANSI 1 1/4"

MATERIALS

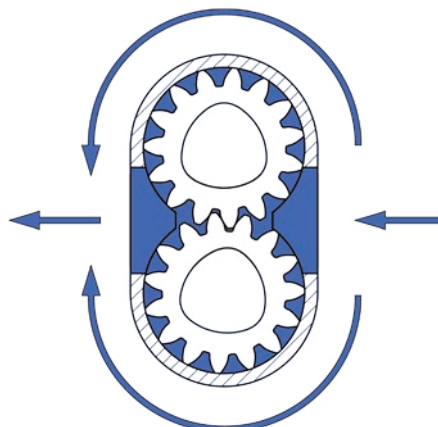
Housings: PP, PVC, PVDF, PTFE
O-Rings: EPDM, Viton, Kalrez
Shafts: Al2O3 >99%, SSiC
Gears: PTFEC, PEEK
Bearings: PTFEC, Graphite, PEEK

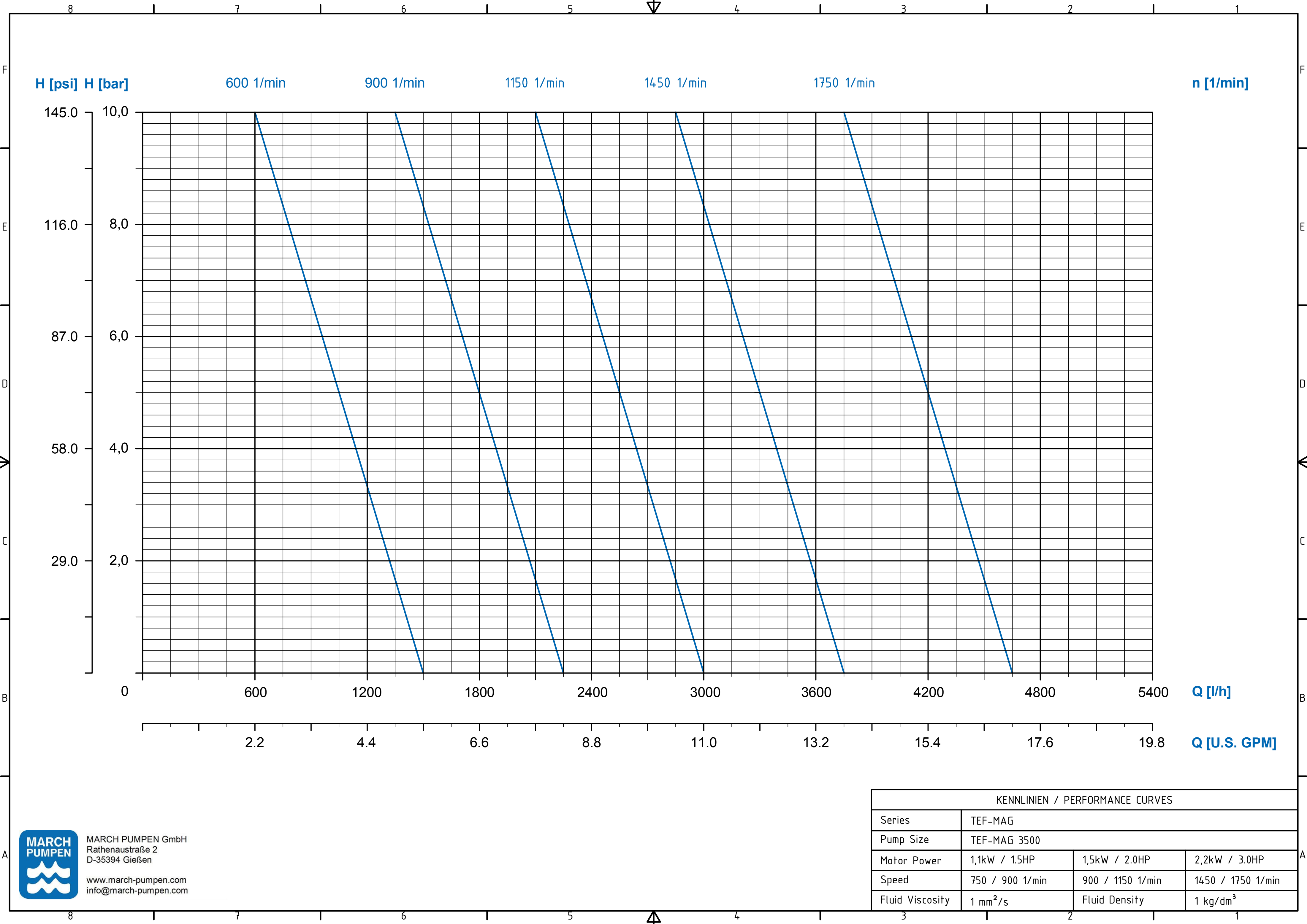
FEATURES AND BENEFITS

- 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 of 0,5m only
- Rugged
- Corrosion-resistant
- Self-priming (wet)
- Dry-run capable
- Small and compact design
- Linear performance curves while variable speed controlling
- High discharge pressures
- Low flow rates
- Integrated Variable Frequency Drive (available on request)
- Pump acc. to ATEX 2014/34/EU

PRODUCT DESCRIPTION

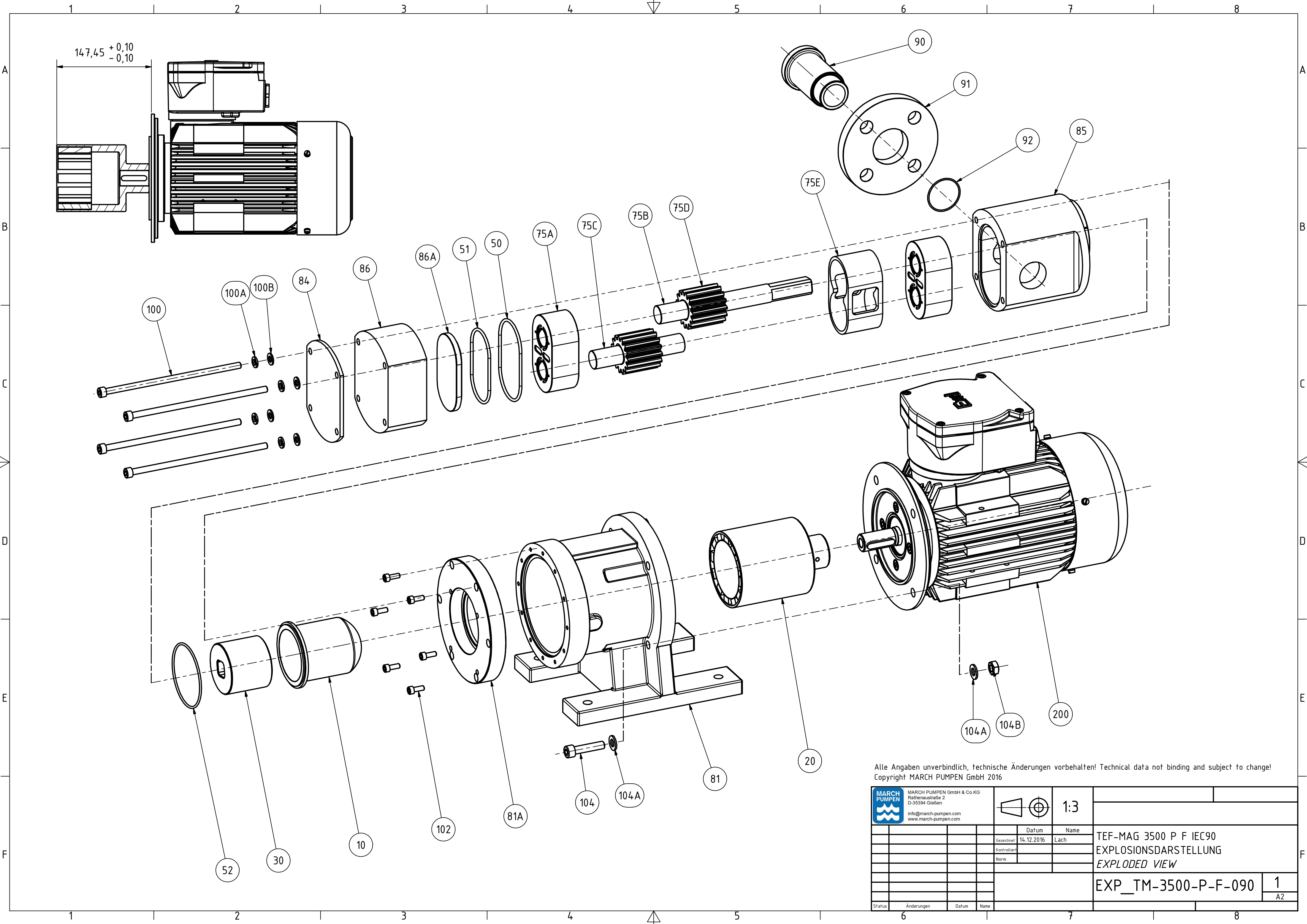
MARCH Series TEF-MAG® gear pumps are corrosion resistant, non-metallic, rotating positive displacement pumps, external gear type and magnetically coupled. TEF-MAG® gear pumps generate low volumetric flows with middle to high discharge pressures and approximately no pulsation. The pump housing is made of resistant solid block plastics like PP, PVDF, PVC or PTFE. 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 firm NdFeB permanent magnets. So the pump is able to work without any mechanical shaft seals, which guarantees safe 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 also.



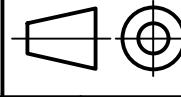


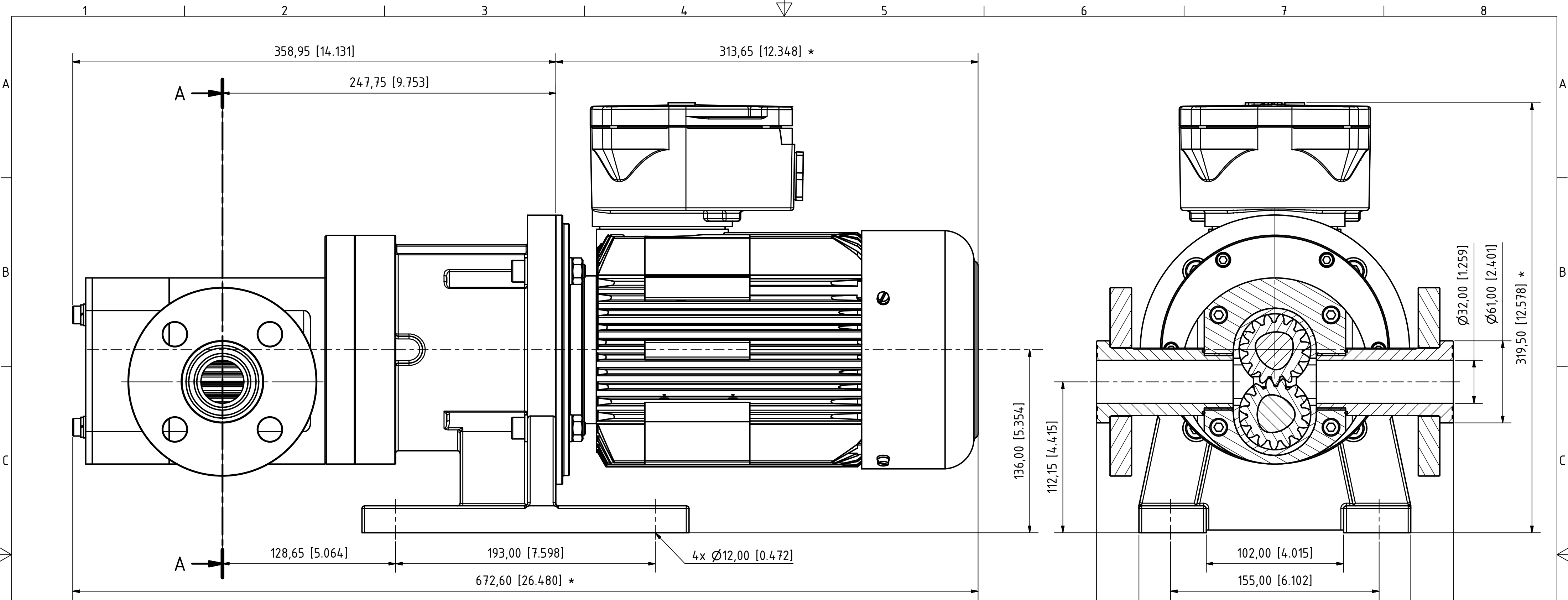
MARCH PUMPEN GmbH
Rathenaustraße 2
D-35394 Gießen
www.march-pumpen.com
info@march-pumpen.com

KENNLINIEN / PERFORMANCE CURVES			
Series	TEF-MAG		
Pump Size	TEF-MAG 3500		
Motor Power	1,1kW / 1.5HP	1,5kW / 2.0HP	2,2kW / 3.0HP
Speed	750 / 900 1/min	900 / 1150 1/min	1450 / 1750 1/min
Fluid Viscosity	1 mm ² /s	Fluid Density	1 kg/dm ³



Alle Angaben unverbindlich, technische Änderungen vorbehalten! Technical data not binding and subject to change!
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 MARCH PUMPEN GmbH & Co.KG Ralthausstraße 2 D-35394 Gießen info@march-pumpen.com www.march-pumpen.com		1:3		
			Datum	Name
	Gezeichnet	14.12.2016	Lach	
	Kontrolliert			
	Norm			
			TEF-MAG 3500 P F IEC90 EXPLOSIONSDARSTELLUNG EXPLODED VIEW	
			EXP_TM-3500-P-F-090	
			1 A2	
Status	Änderungen	Datum	Name	



ANSCHLÜSSE
Losflansch DN32 PN10/16 - PP-ST
Saug- und Druckseite abhängig von Drehrichtung.
Pumpe kann reversibel eingesetzt werden.
Beispiel unter Schnitt A-A.

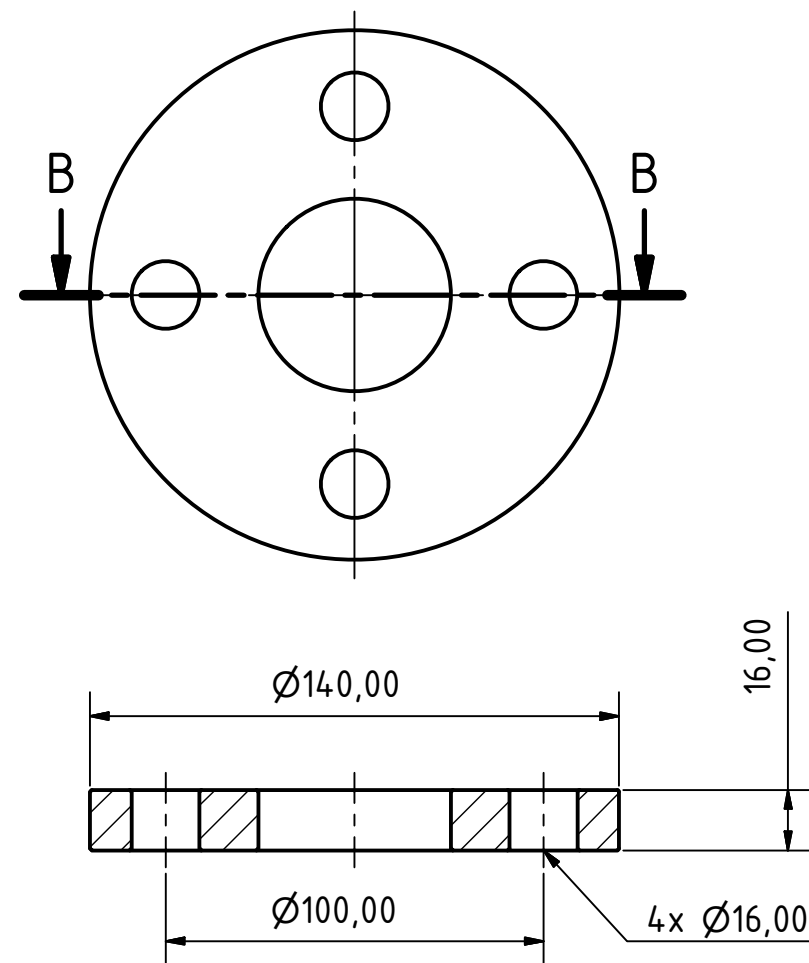
CONNECTIONS
Loose Flange DN32 PN10/16 - PP-ST
Suction and discharge side depends on direction of rotation.
Pump is reversible.
See example under section view A-A.

ANTRIEB
Drehstrom-Asynchronmotor mit Käfigläufer
Baugröße / Form: BG90 B5
Fabrikat: Bartec Varnost
Typ: 4KTC 90L4/6

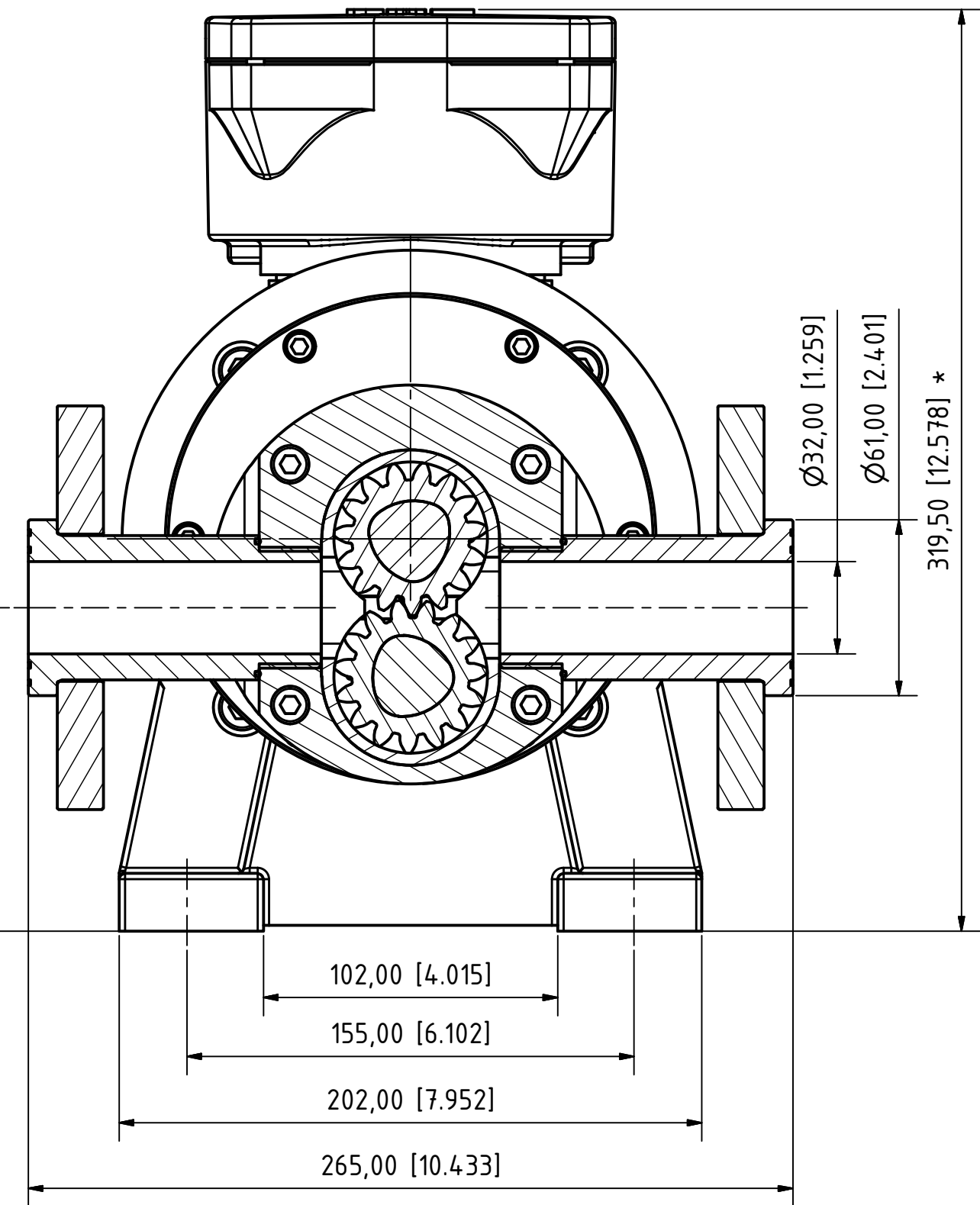
DRIVE
TEFC three phase asynchronous squirrel cage electric motor
Size: IEC 90 B5
Manufacturer: Bartec Varnost
Type: 4KTC 90L4/6

ABMESSUNGEN
* kann bei anderen Motorfabrikaten abweichen
Abmessungen in mm [Zoll]

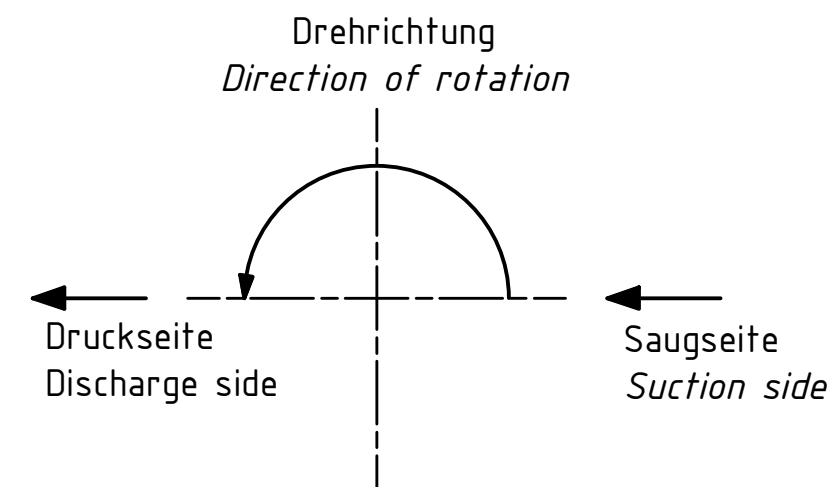
DIMENSIONS
* may change with different motor manufatcurer
Dimensions in mm [inch]



B-B (1 : 2)



A-A (1 : 2)



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		MARCH PUMPEN GmbH & Co KG Rathenaustraße 2 D-35394 Gießen info@march-pumpen.com www.march-pumpen.com				1:2			
					Datum	Name		TEF-MAG 3500 P-F-H IEC90 4KTC ABMESSUNGEN <i>DIMENSIONS</i>	
					Gezeichnet	14.12.2016	Lach		
					Kontrolliert				
					Norm				
								TM-3500-Px-F-H-4KTC	
								1	
								A2	
Status	Änderungen	Datum	Name						