

MAGNETIC DRIVEN GEAR PUMPS Series TEF-MAG

TEF-MAG 1500



TECHNICAL DATA

Nominal speed:	1450 1/min (50Hz) 1750 1/min (60Hz)
Nominal flow:	1350 l/h (356.63 us gph) 1650 l/h (435.88 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/dm ³
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:

- Biodiesel Plants
- Waste Water Treatment
- 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, PVDF, PTFE
O-Rings: EPDM, Viton, Kalrez
Shafts: Al₂O₃ >99%, SSiC
Gears: PTFEC
Bearings: PTFEC, Graphite



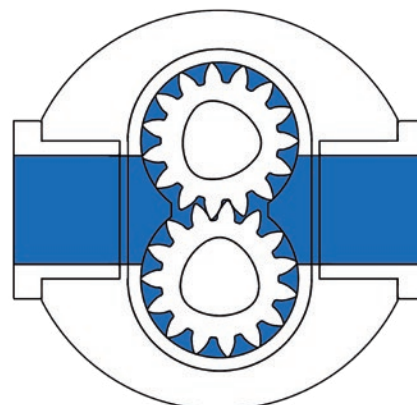
TEF-MAG Canada
Vissers Sales
(800) 367-4180

FEATURES AND BENEFITS

- No need in expensive high alloys like Duplex or Hastelloy
- Rotary positive displacement pump
- External gear pump
- Nearby pulsation free
- Leak-free
- Magnetic driven
- Low NPSHR-value of 0,6m only
- Leak-free
- Rugged
- Corrosion-resistant
- Self-priming
- 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 flows with high discharge pressures and approximately no pulsation. The pump housing is made of resistant solid block plastics like PP, PVDF 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 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 also.



H [psi] H [bar]

750 1/min

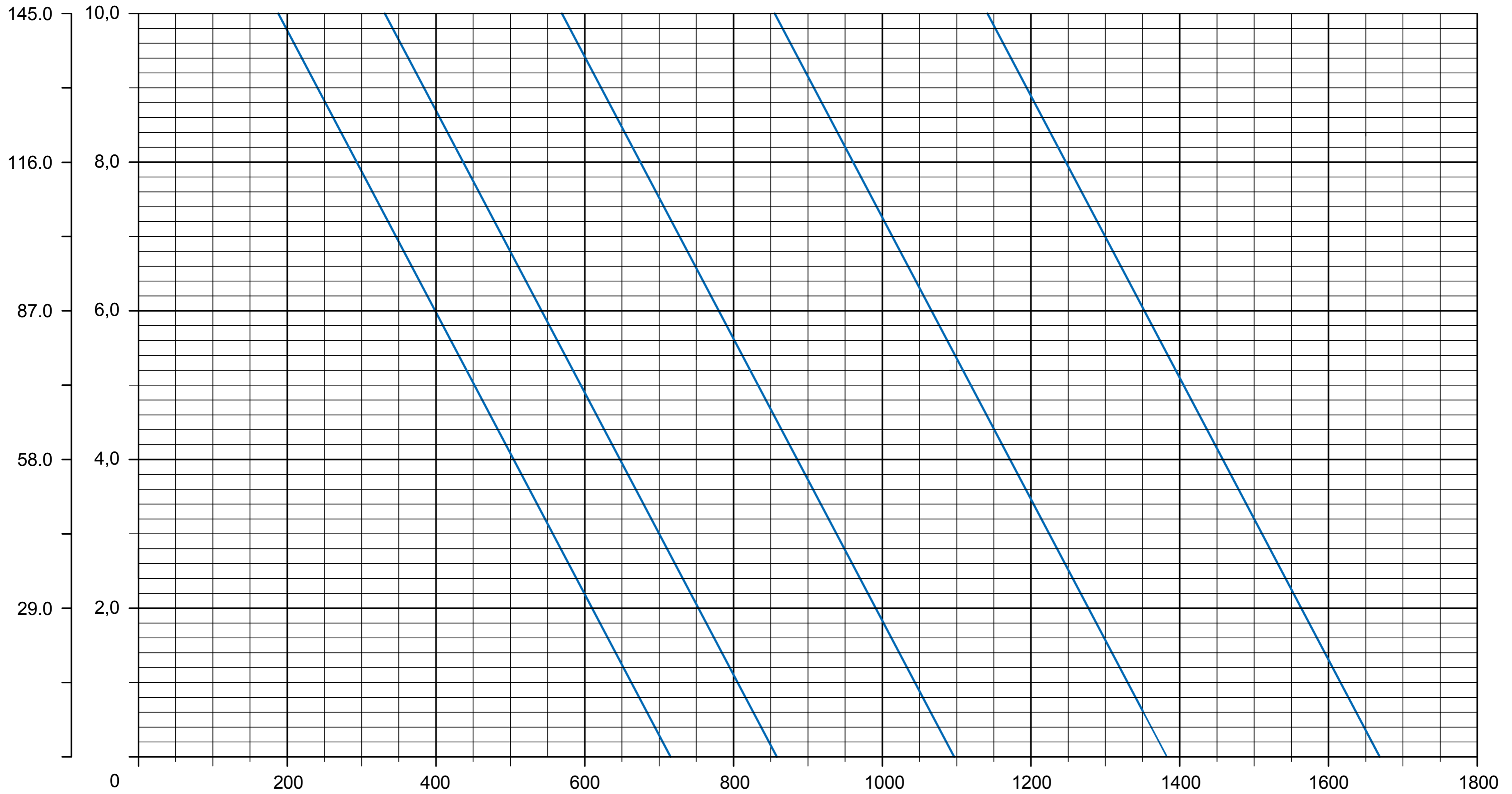
900 1/min

1150 1/min

1450 1/min

1750 1/min

n [1/min]



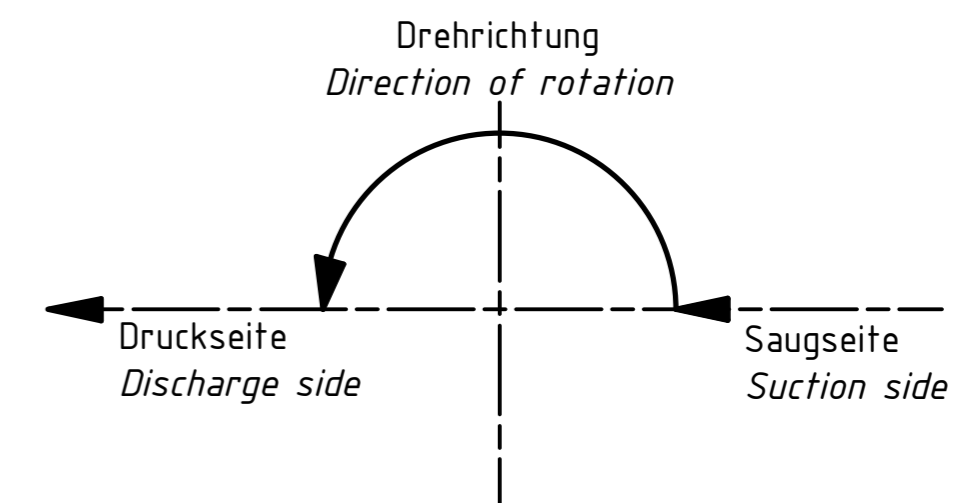
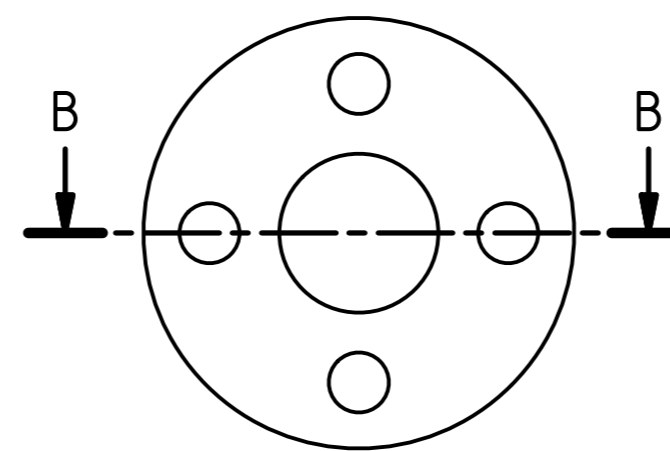
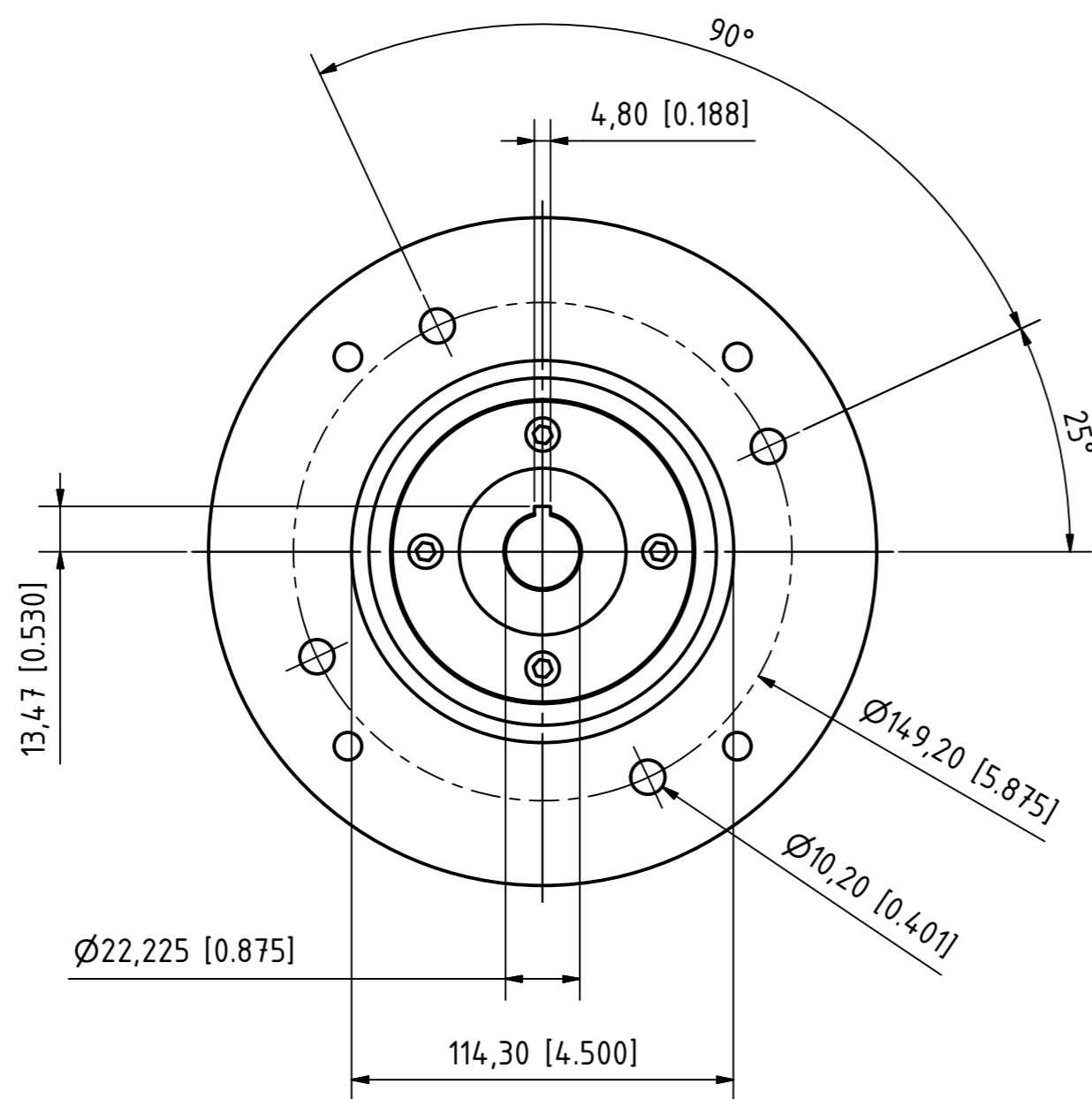
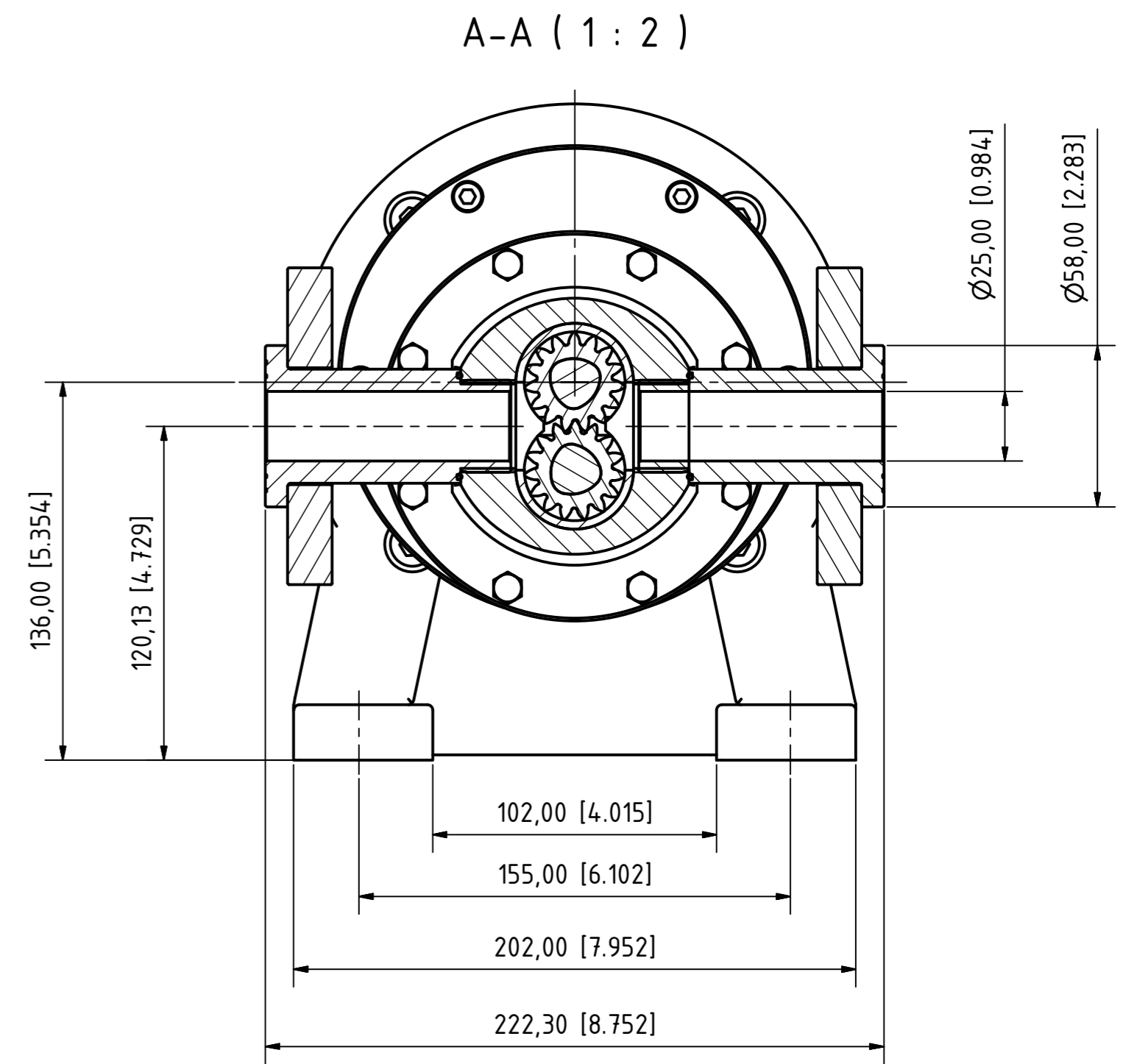
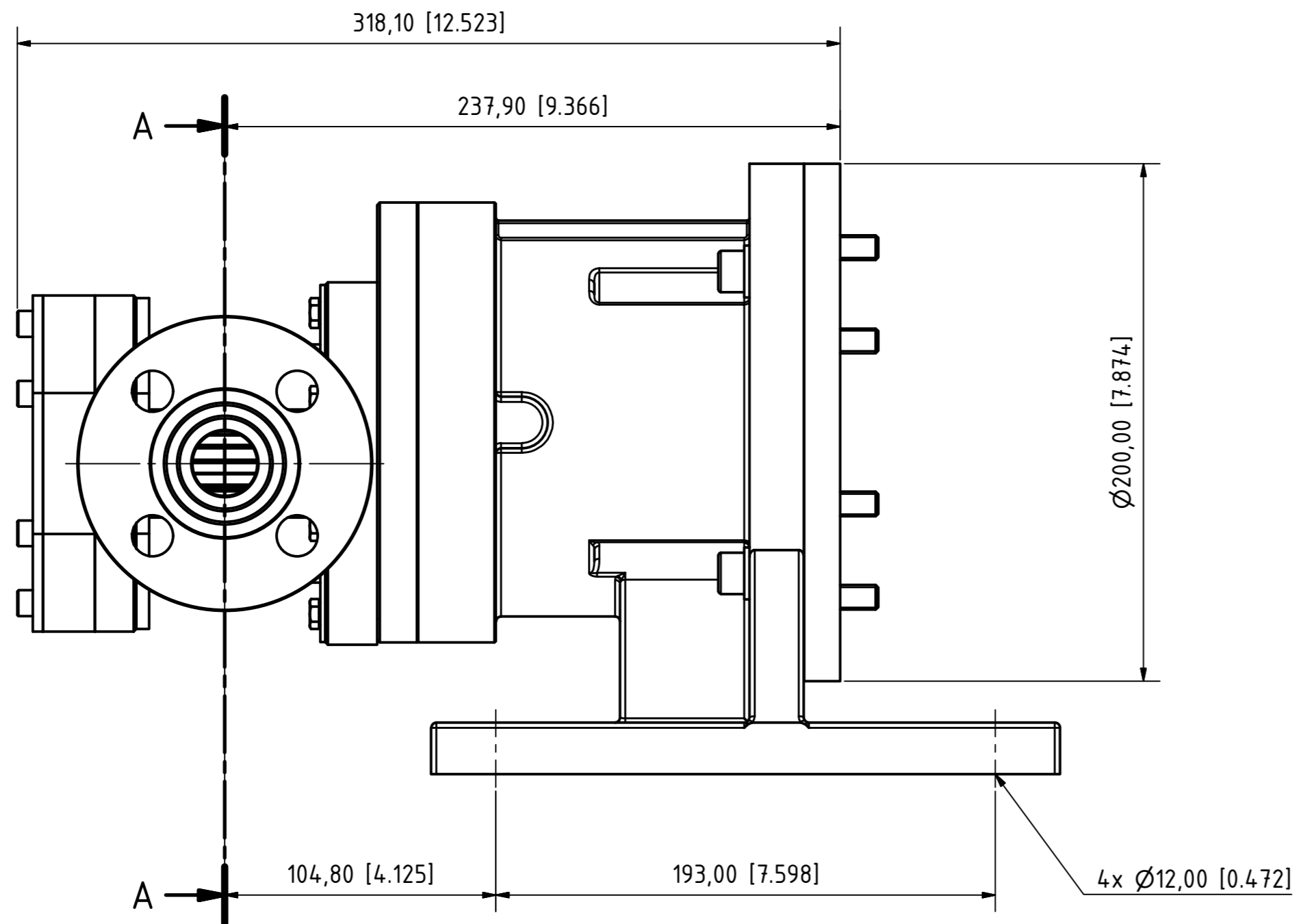
Q [l/h]

Q [U.S. GPM]



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KENNLINIEN / PERFORMANCE CURVES			
Series	TEF-MAG		
Pump Size	TEF-MAG 1500		
Motor Power	0,55 kW / 0.75 HP	1,1 kW / 1.5 HP	1,5 kW / 2.0 HP
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

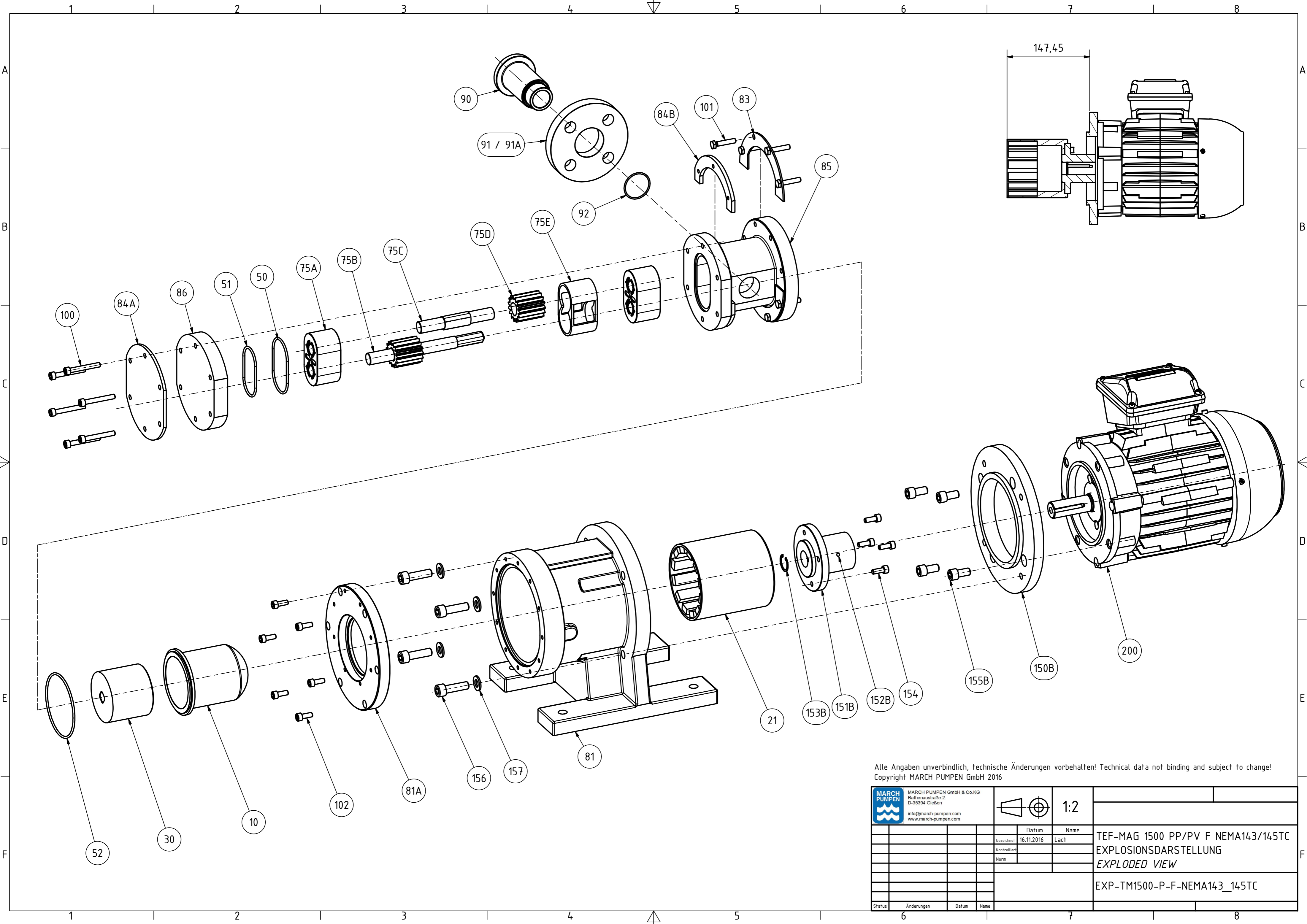


DIMENSIONS
mm [inch]


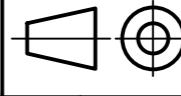
CONNECTIONS
Lap Joint Flange ANSI 1"
- 150lbs - PP-ST
or
1" BSP female thread
Suction and discharge side
depends on direction of rotation.
Pump is reversible.

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		MARCH PUMPEN GmbH & Co.KG Rätthausstraße 2 D-35394 Gießen info@march-pumpen.com www.march-pumpen.com		1:2			
		Datum 19.01.2017		Name Lach		DIMENSIONS TEF-MAG 1500 P-FA-H NEMA143/145TC	
		Gezeichnet		Kontrolliert		Norm	
						DPTM-1500-P-FA_NEMA143_145TC_PH	
Status	Änderungen	Datum	Name				



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		Datum	Name
		Gezeichnet	16.11.2016 Lach
		Kontrolliert	
		Norm	
			TEF-MAG 1500 PP/PV F NEMA143/145TC EXPLOSIONSDARSTELLUNG EXPLODED VIEW
			EXP-TM1500-P-F-NEMA143_145TC
Status	Änderungen	Datum	Name