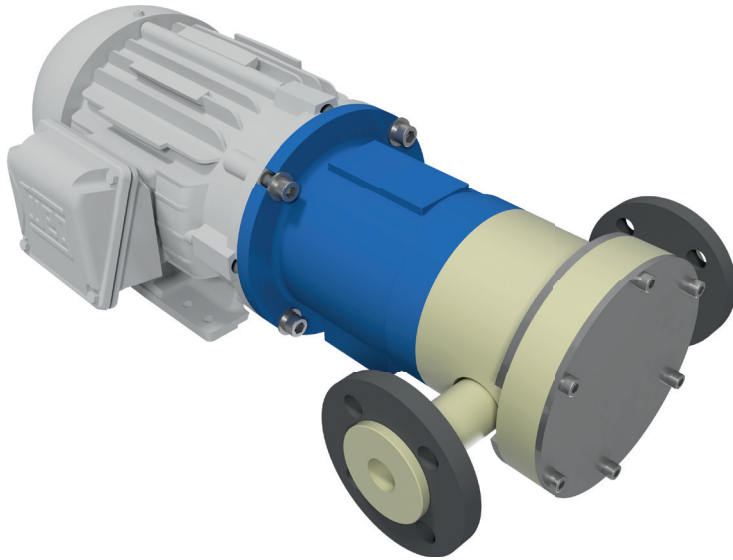


MAGNETICALLY COUPLED, NON-METALLIC GEAR PUMPS

Series TEF-MAG®

TEF-MAG 800



TECHNICAL DATA

Nominal speed:	1450 1/min (50Hz) 1750 1/min (60Hz)
Nominal flow:	850 l/h (225 us gph) 1000 l/h (265 us gph)
Differential pressure, max.:	10 bar (145 psi)
Design pressure, max.:	PN 25 bar (362,59 psi)
Temperature, max.:	120°C (248°F)
Density, max.:	1,9 kg/dm ³
Viscosity, max.:	10.000 cP
NPSHR:	0,5 m
Drive power:	1.0 HP (0,75 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
- Battery recycling plants
- Alkaline water electrolysis
- Metering Applications
- Pharmaceutical-, Medical-, Bio- Engineering

CONNECTIONS

Threaded:	G3/4"
Flanged:	DN20 ANSI 3/4"

MATERIALS

Housings:	PP, PE, PVC, PVDF, PEEK
O-Rings:	EPDM, Viton, Kalrez
Shafts:	SSiC
Gears:	PTFEC, PVDF, PEEK, PPS
Bearings:	PTFEC, Graphite, PEEK, SSiC, PPS

FDA compliant materials are available upon request.

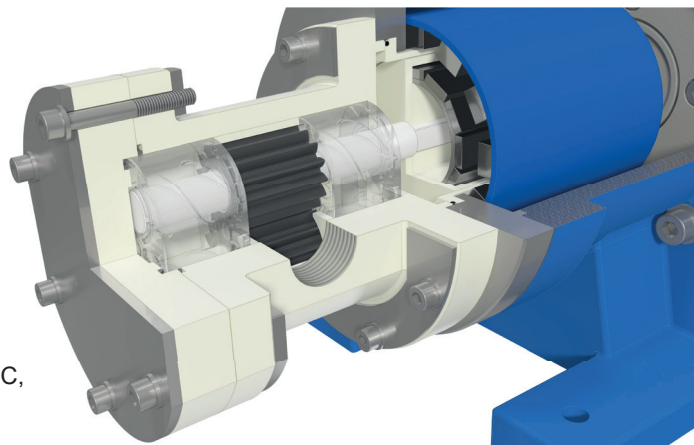
FEATURES AND BENEFITS

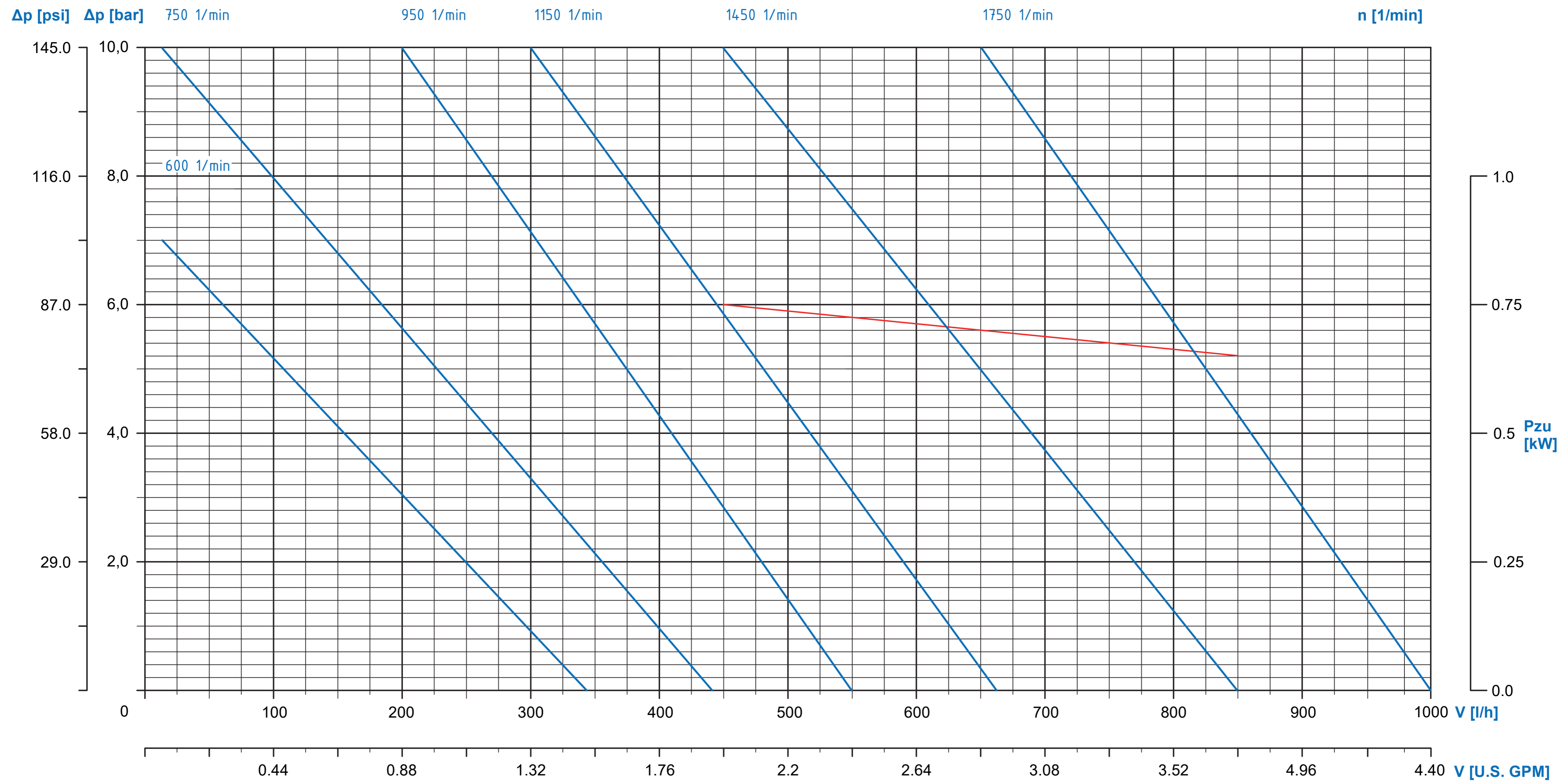
- European Patent No. 3786416
- USA Patent No. US 10,189,005 B2
- No need in expensive high alloys like Duplex, Hastelloy C or Titanium
- Rotary positive displacement pump
- External gear pump
- Almost pulsation free
- Leak-free
- Magnetically coupled
- Low NPSHR value
- Designed for Industrial Heavy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

PRODUCT DESCRIPTION

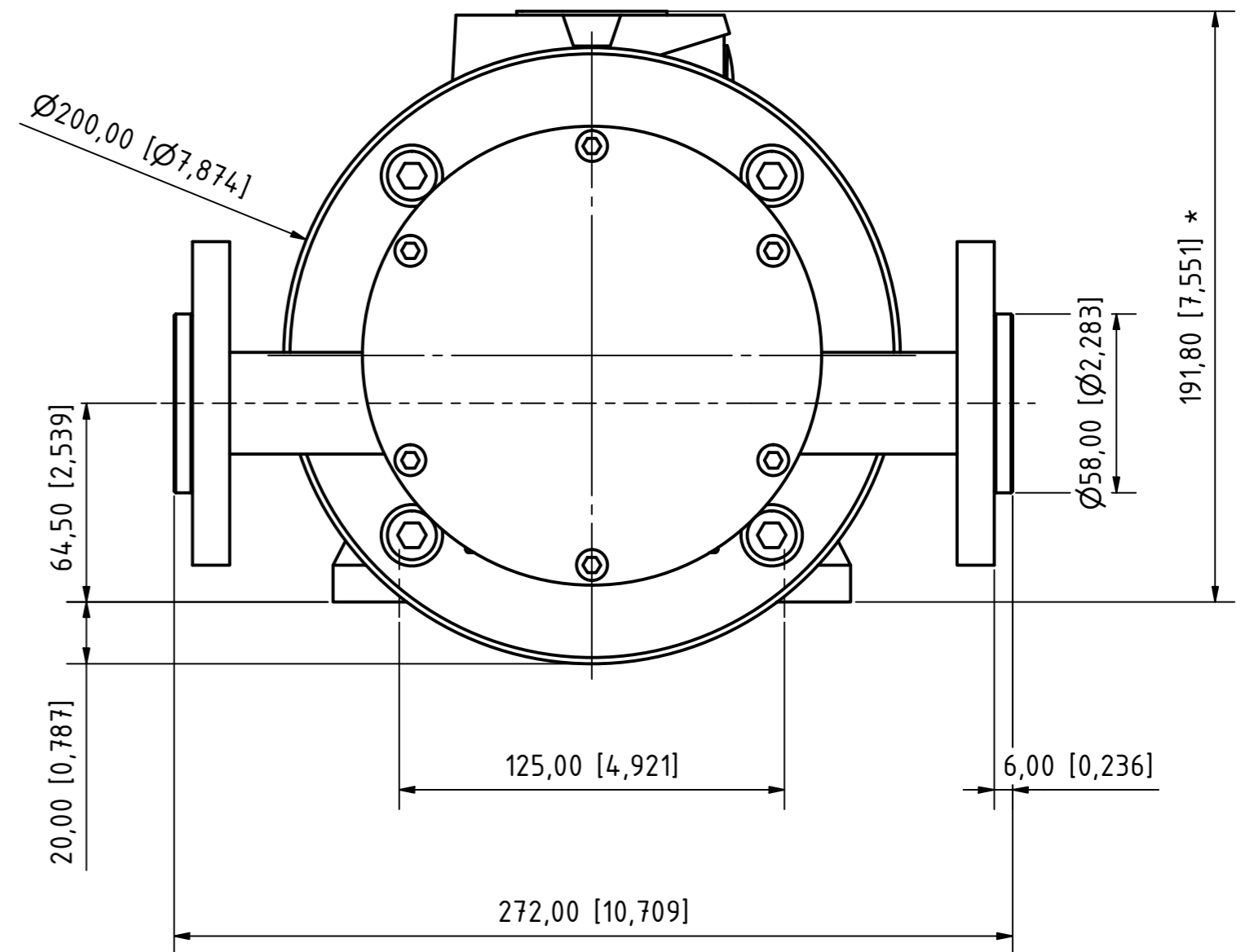
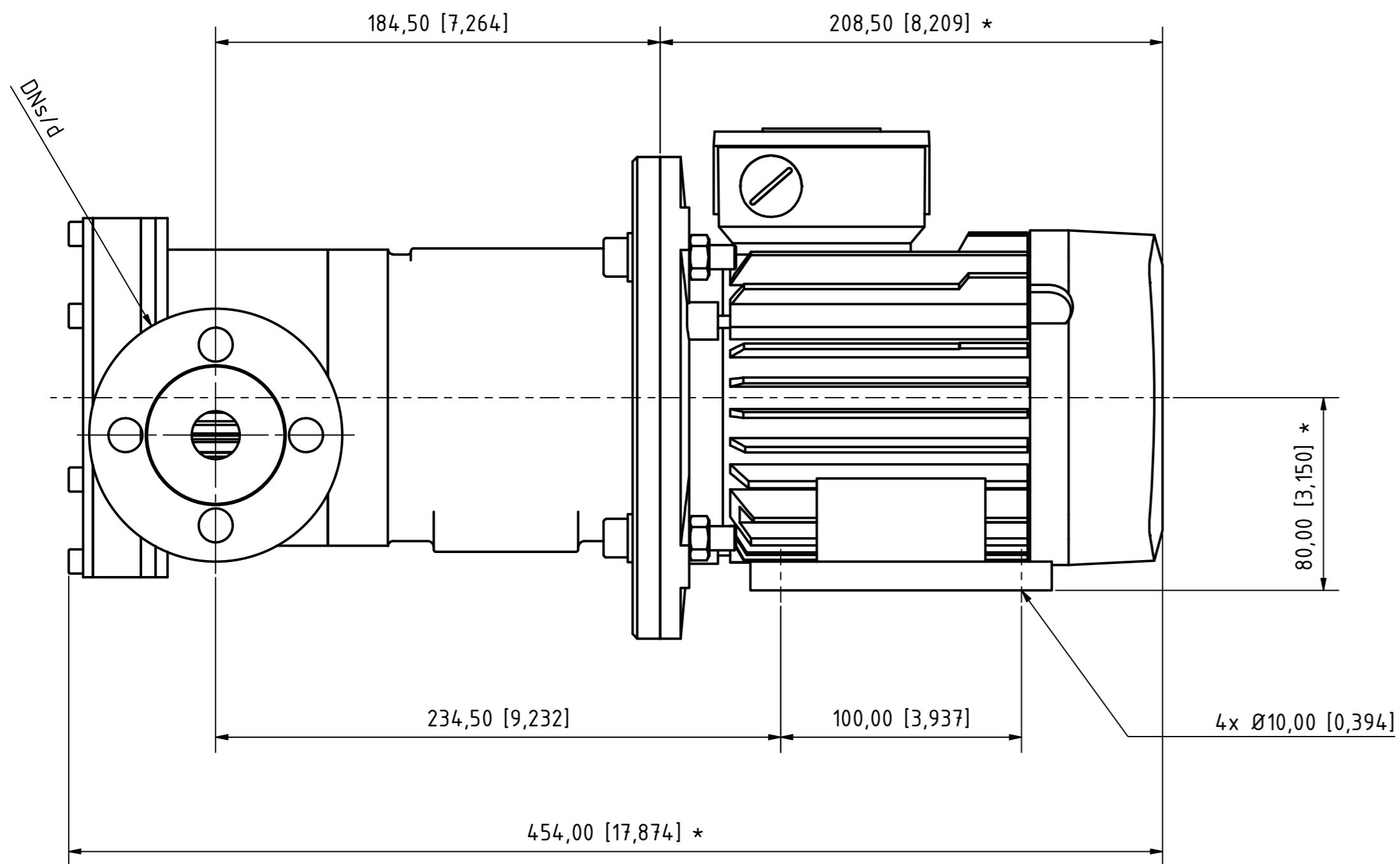
MARCH Series TEF-MAG® gear pumps are chemical resistant, non-metallic, rotating positive displacement pumps, external gear type and magnetically coupled. TEF-MAG® gear pumps generate low volumetric flows with middle to high differential pressures and approximately no pulsation. The pump housings are 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 800		
Fluid Viscosity	1 mm ² /s	Fluid Density	1 kg/dm ³



- ABMESSUNGEN

mm [Zoll]
* Maß kann bei anderen Motorenfabrikaten abweichen

- DIMENSIONS

mm [Inch]
* may change with different motor manufacturer

- ANTRIEB

Drehstrom-Asynchronmotor nach IEC Richtlinien
Fabrikat: VEM
Größe:

- DRIVE

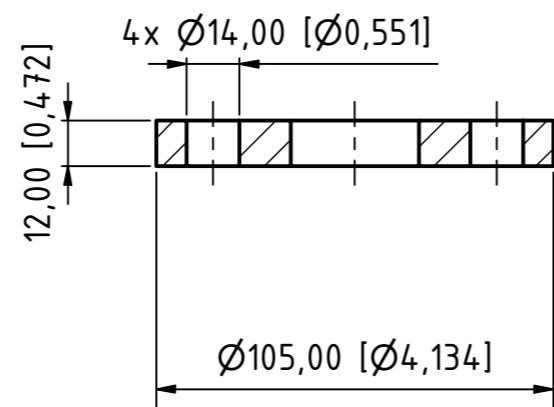
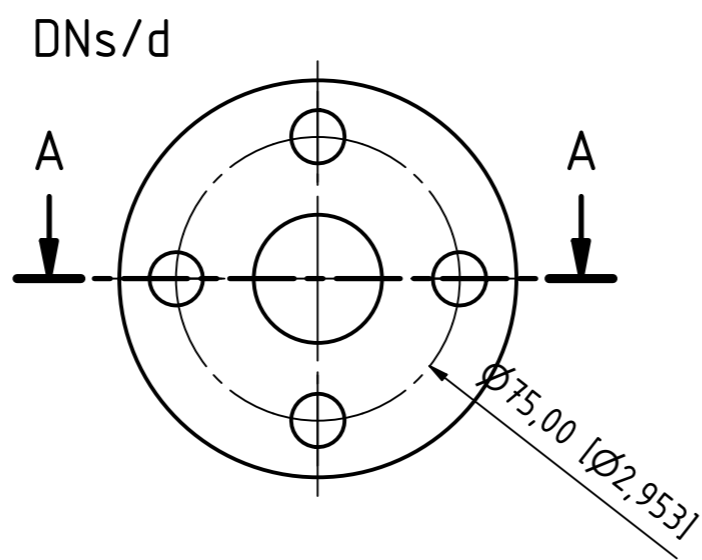
Three phase TEFC electric motor acc. to IEC Standards
Manufacturer: VEM
Size:

- ANSCHLÜSSE DN_s/d

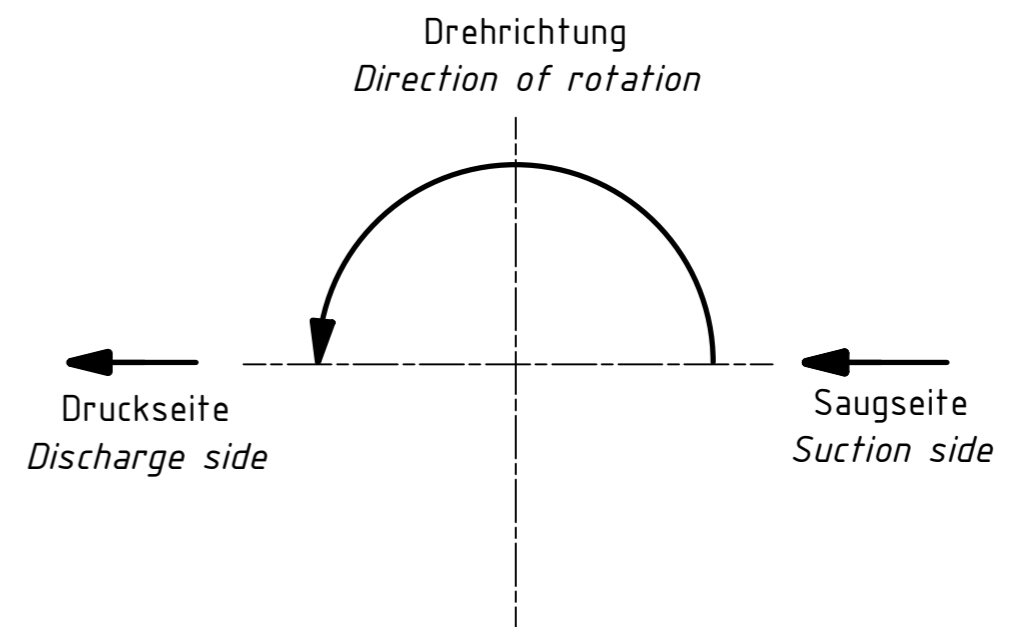
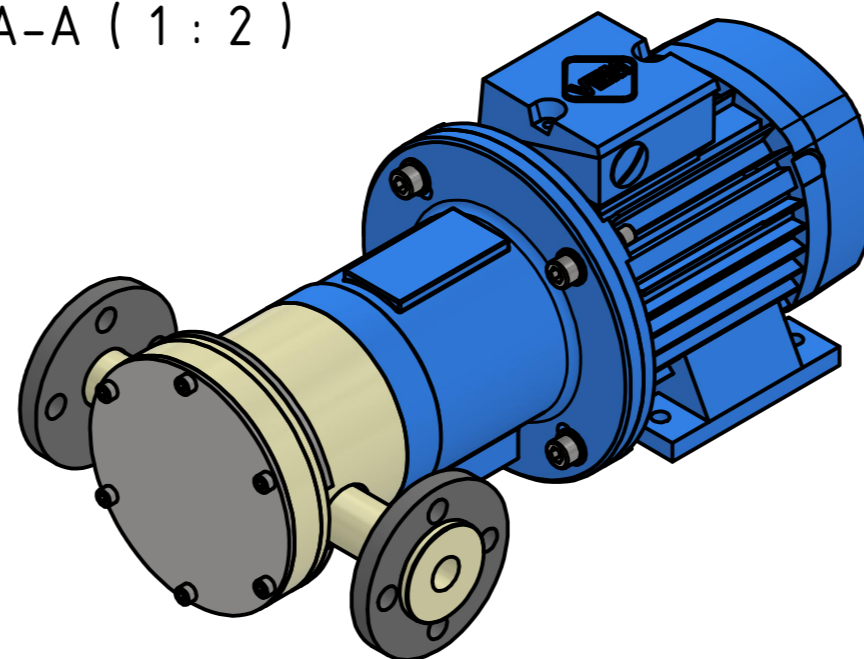
Losflansch DN20 PN10/16
Saugseite / Druckseite abhängig von Drehrichtung
Pumpe kann reversibel eingesetzt werden

- CONNECTIONS DN_s/d

Lap joint Flange DN20 PN10/16
Suction side / discharge side depends on direction of rotation
Pump is reversible

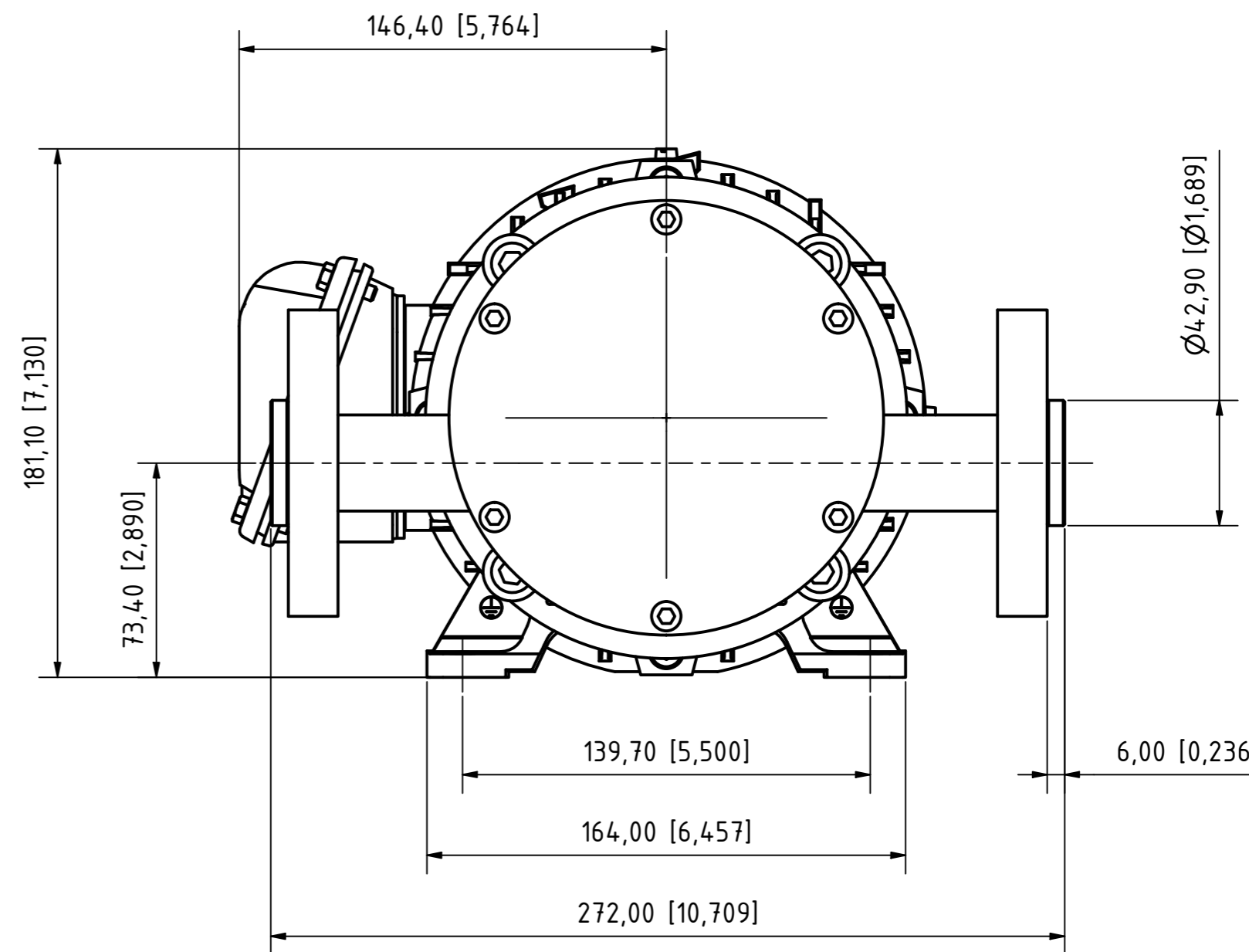
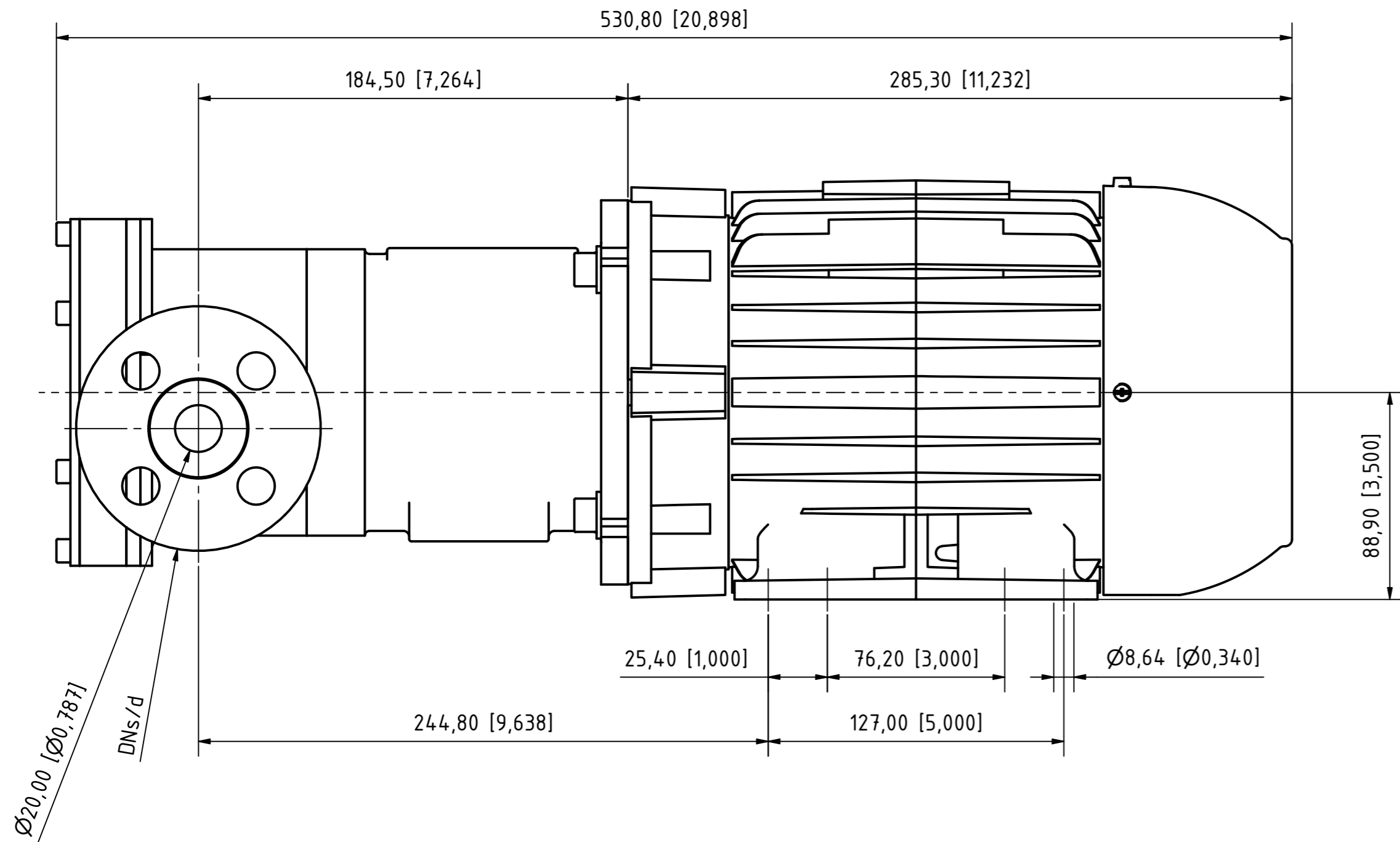


A-A (1 : 2)



Alle Angaben unverbindlich, technische Änderungen vorbehalten! Technical data not binding and subject to change!
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	MARCH PUMPEN GmbH&Co.KG Rathenaustraße 2 D-35394 Gießen Tel.: (+49) (0)641-68 68 06-0 Fax.: (+49) (0)641-68 68 06-60			1:2	Allgemeintoleranzen nach DIN ISO 2768-f Alle Kanten gratfrei	
	Gezeichnet 21.10.2022	Name W.Aden			TEF-MAG 0800 P-F-H-IEC80-VEM Abmessungen Dimensions	
Status Änderungen	Datum	Name	DRAWING_TM-0800			



ABMESSUNGEN

mm [Zoll]
* Maß kann bei anderen Motorenfabrikaten abweichen

DIMENSIONS

mm [Inch]
* may change with different motor manufacturer

ANTRIEB

Drehstrom-Asynchronmotor nach NEMA Richtlinien
Fabrikat: WEG
Größe: NEMA 143 TC, 1.0 HP, 1750 rpm

DRIVE

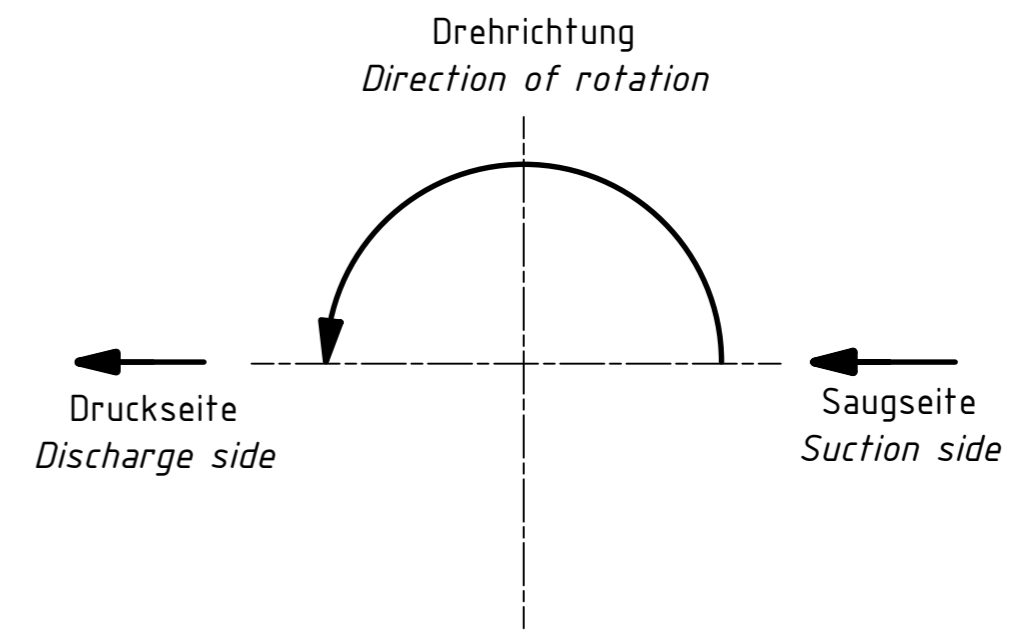
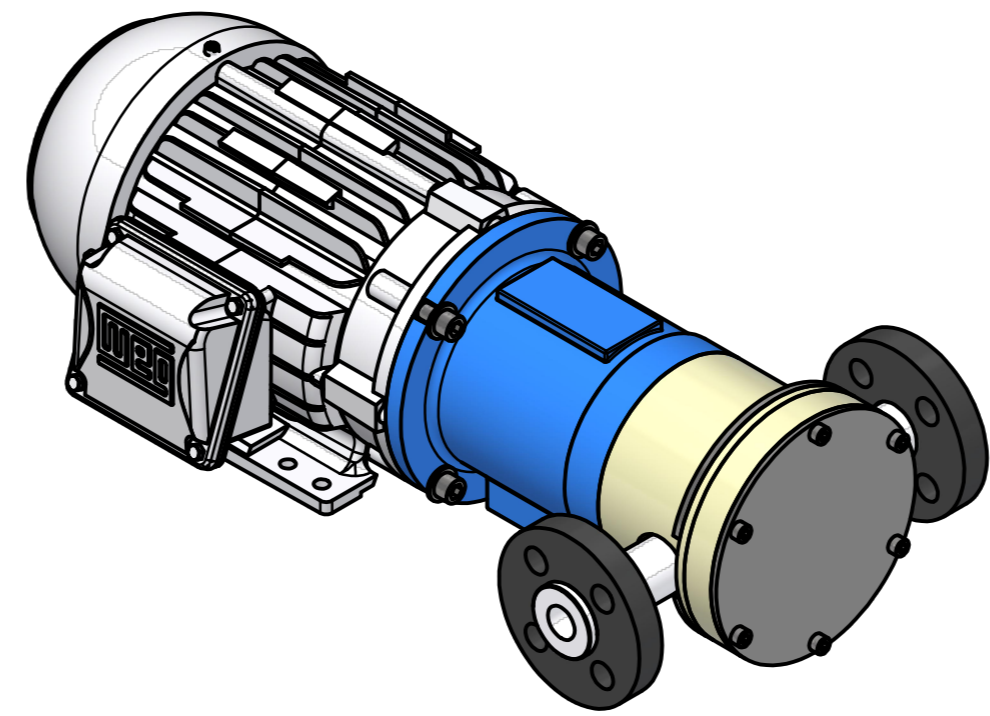
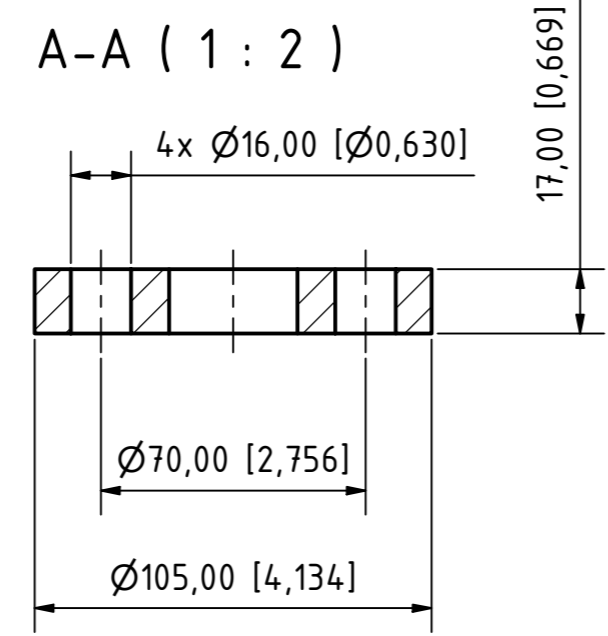
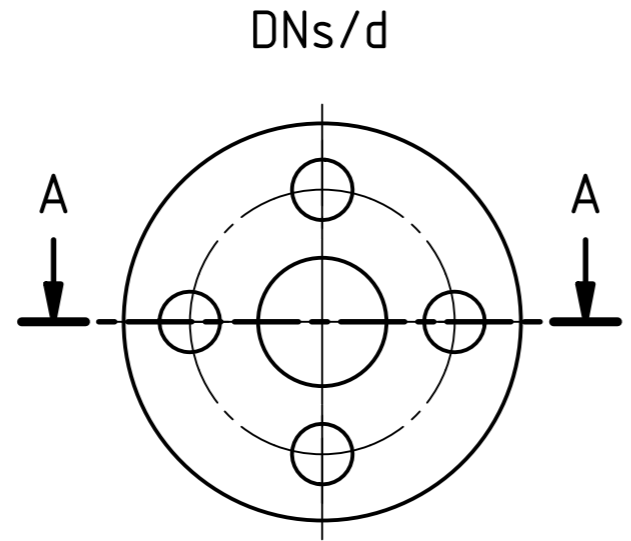
Three phase TEFC electric motor acc. to NEMA Standards
Manufacturer: WEG
Size: NEMA 143 TC, 1.0 HP, 1750 rpm

ANSCHLÜSSE DN/d

Losflansch 3/4" ANSI #150
Saugseite / Druckseite abhängig von Drehrichtung
Pumpe kann reversibel eingesetzt werden

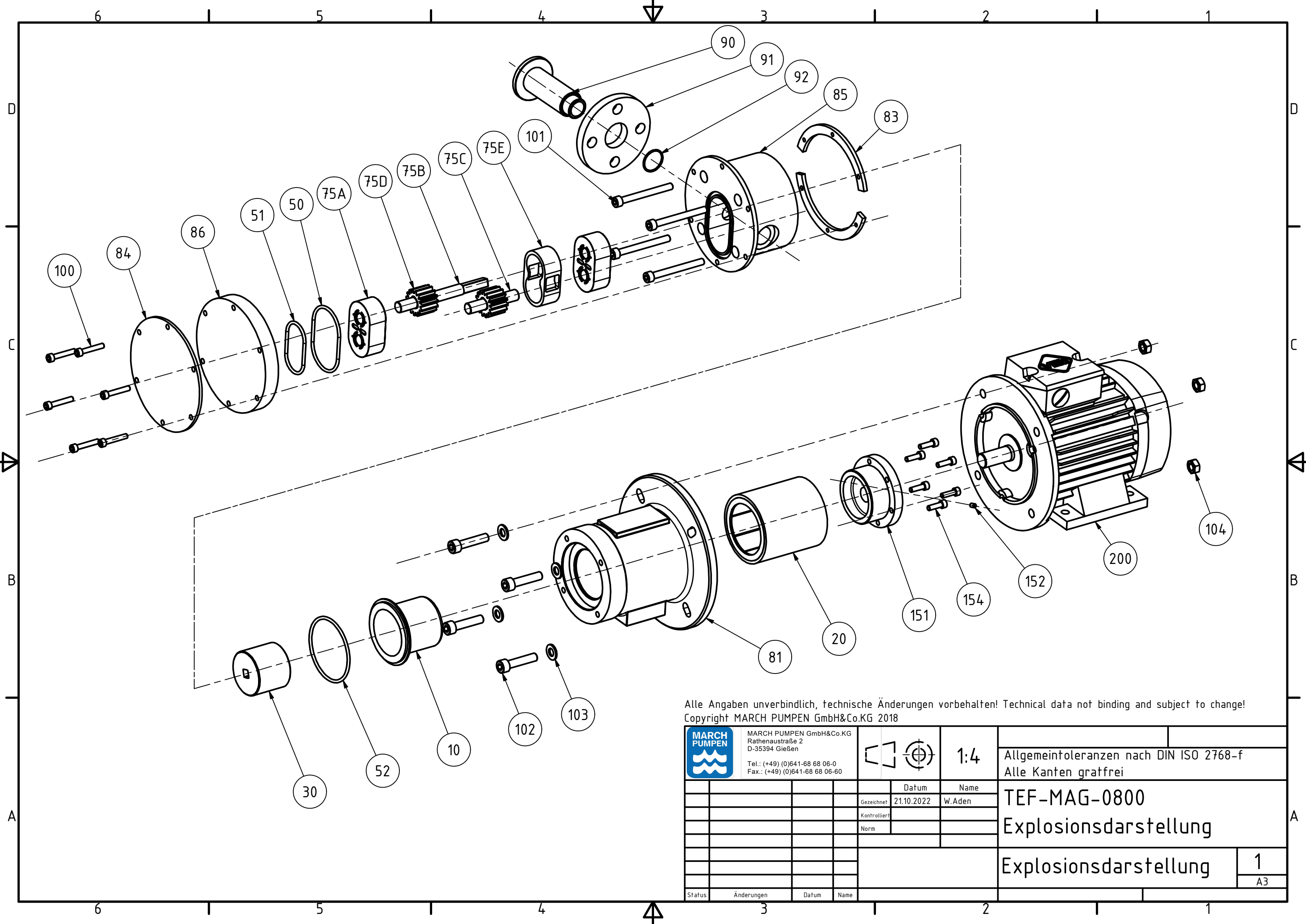
CONNECTIONS DN/d

Lap joint Flange 3/4" ANSI #150
Suction side / discharge side depends on direction of rotation
Pump is reversible





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	Gezeichnet 26.04.2023	Name P.Lach			TEF-MAG 0800 P-FA-H-NEMA143TC-WEG Abmessungen Dimensions	
DPTM-0800-FA-H-NEMA					1	A2
Status	Änderungen	Datum	Name			



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	MARCH PUMPEN GmbH&Co.KG Rathenastraße 2 D-35394 Gießen Tel.: (+49) (0)641-68 68 06-0 Fax.: (+49) (0)641-68 68 06-60		1:4	Allgemeintoleranzen nach DIN ISO 2768-f Alle Kanten gratfrei																																																					
				TEF-MAG-0800 Explosionsdarstellung																																																					
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