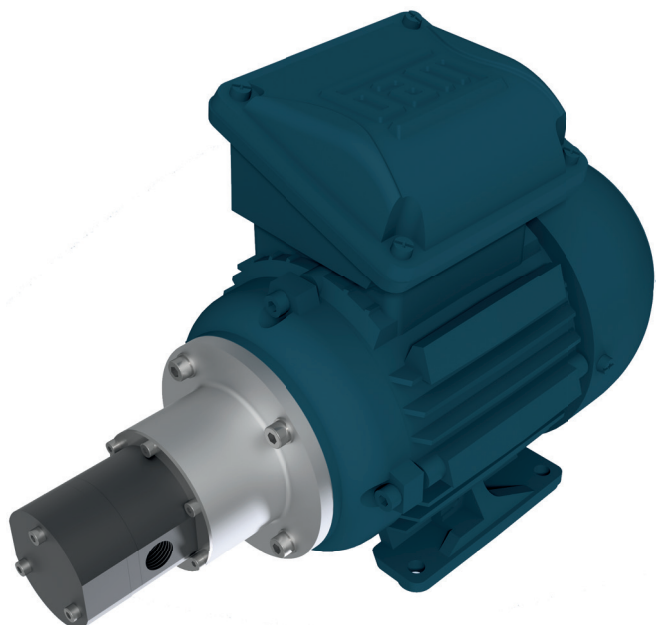


MAGNETICALLY COUPLED, NON-METALLIC GEAR PUMPS

Series TEF-MAG®

TEF-MAG 25



PRODUCT DESCRIPTION

MARCH Series TEF-MAG® gear pumps are corrosion and 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 discharge pressures and approximately no pulsation. The pump housing of the TEF-MAG 25 is made of chemical resistant PPS. The internal hydraulic parts like gears and shafts are also made of highly corrosion resistant non-metallic materials. The Containment Can is made of deep drawn Titanium sheet metal.

The power transmission of drive and pump happens in a contactless way with plastic bonded ferrite 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 harmful fluids.

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

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
- Rugged
- Corrosion and chemical resistant
- Self-priming (wet)
- Small and compact design
- High discharge pressures
- Low flow rates
- Integrated Variable Frequency Drive (available on request)

TECHNICAL DATA

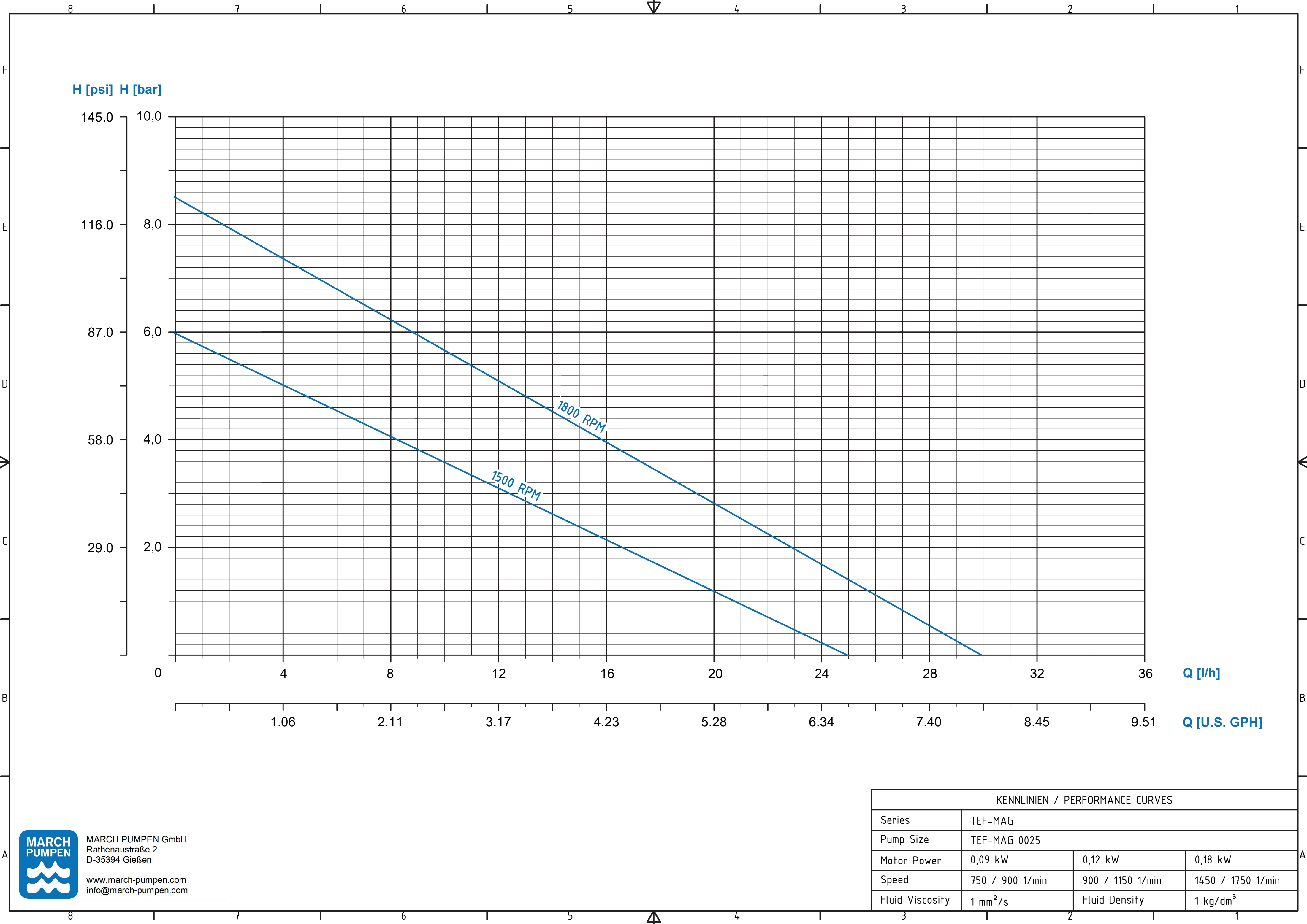
Nominal speed:	1500 1/min (50Hz) 1800 1/min (60Hz)
Nominal flow:	25 l/h (6.6 us gph) 30 l/h (7.93 us gph)
Differential pressure, max.:	9 bar (130.53 psi)
Design pressure:	PN 20 bar (290 psi)
Temperature, max.:	60°C (140°F)
Density, max.:	1,8 kg/dm³
Viscosity, max.:	500 cP
NPSHR:	2,5 m
V gth.:	0,32 cm³/U
Hyd. Eff.:	87 %
Motor adaptations:	IEC 56 B34K IEC 63 B34K NEMA 56C

CONNECTIONS

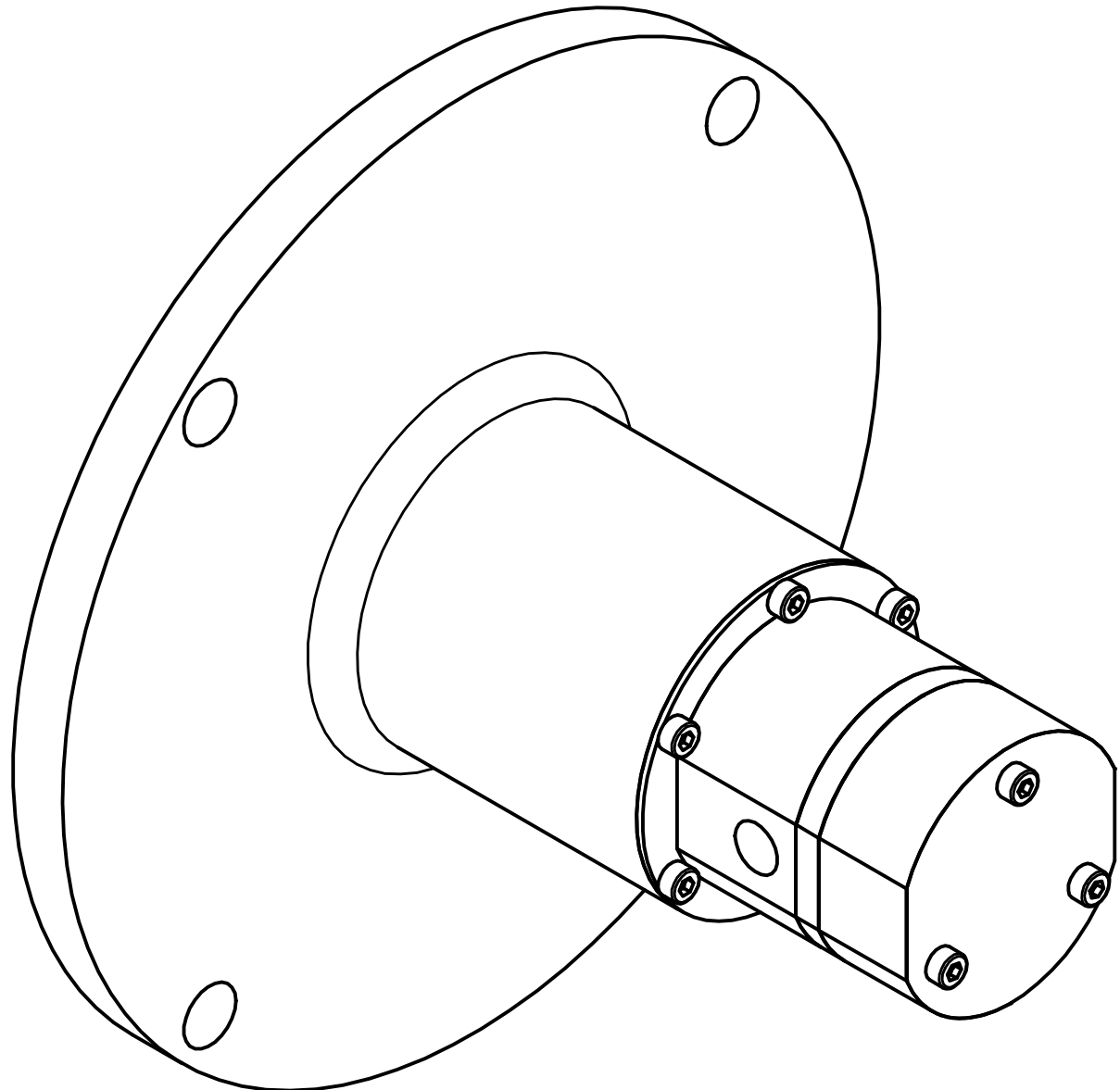
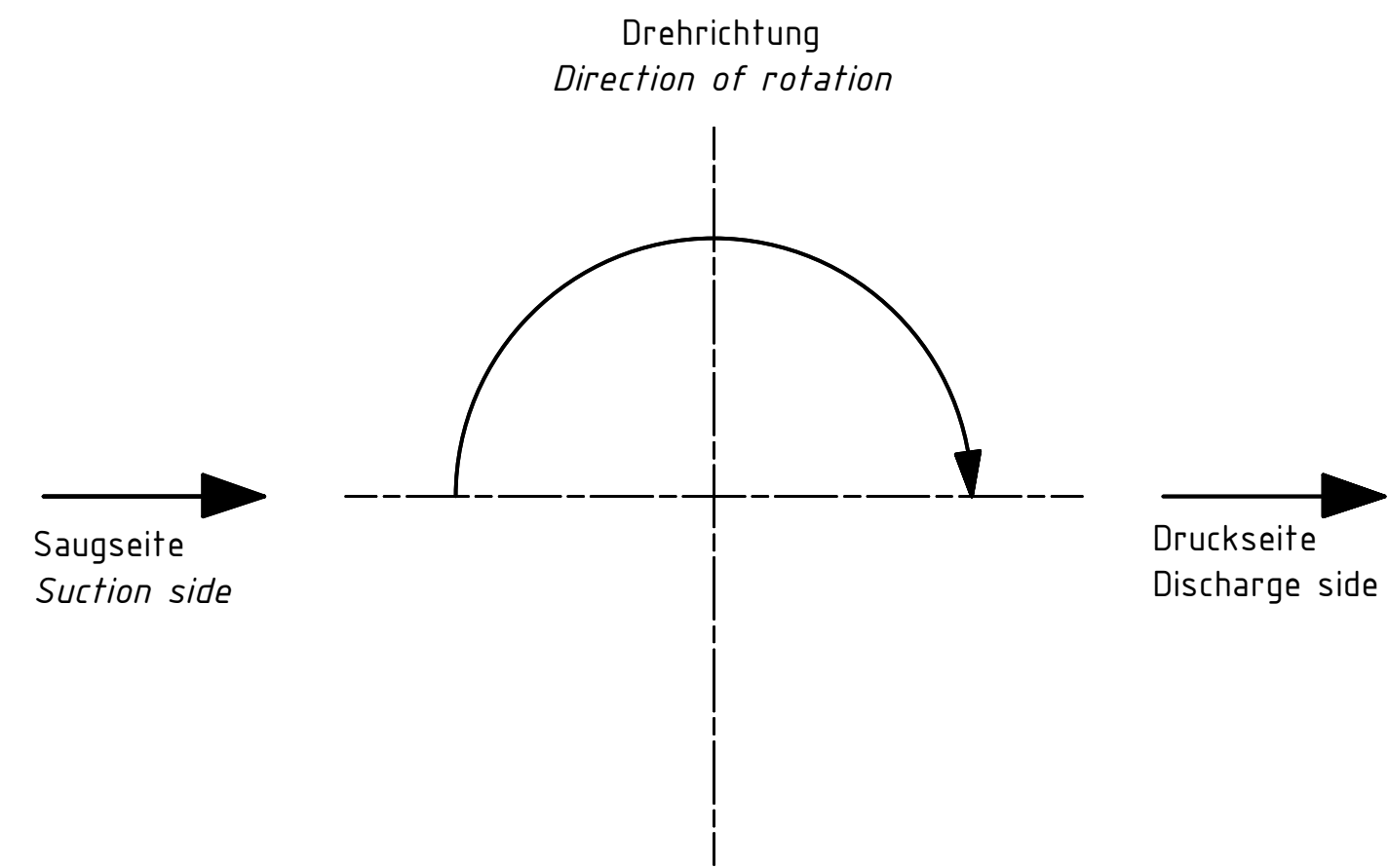
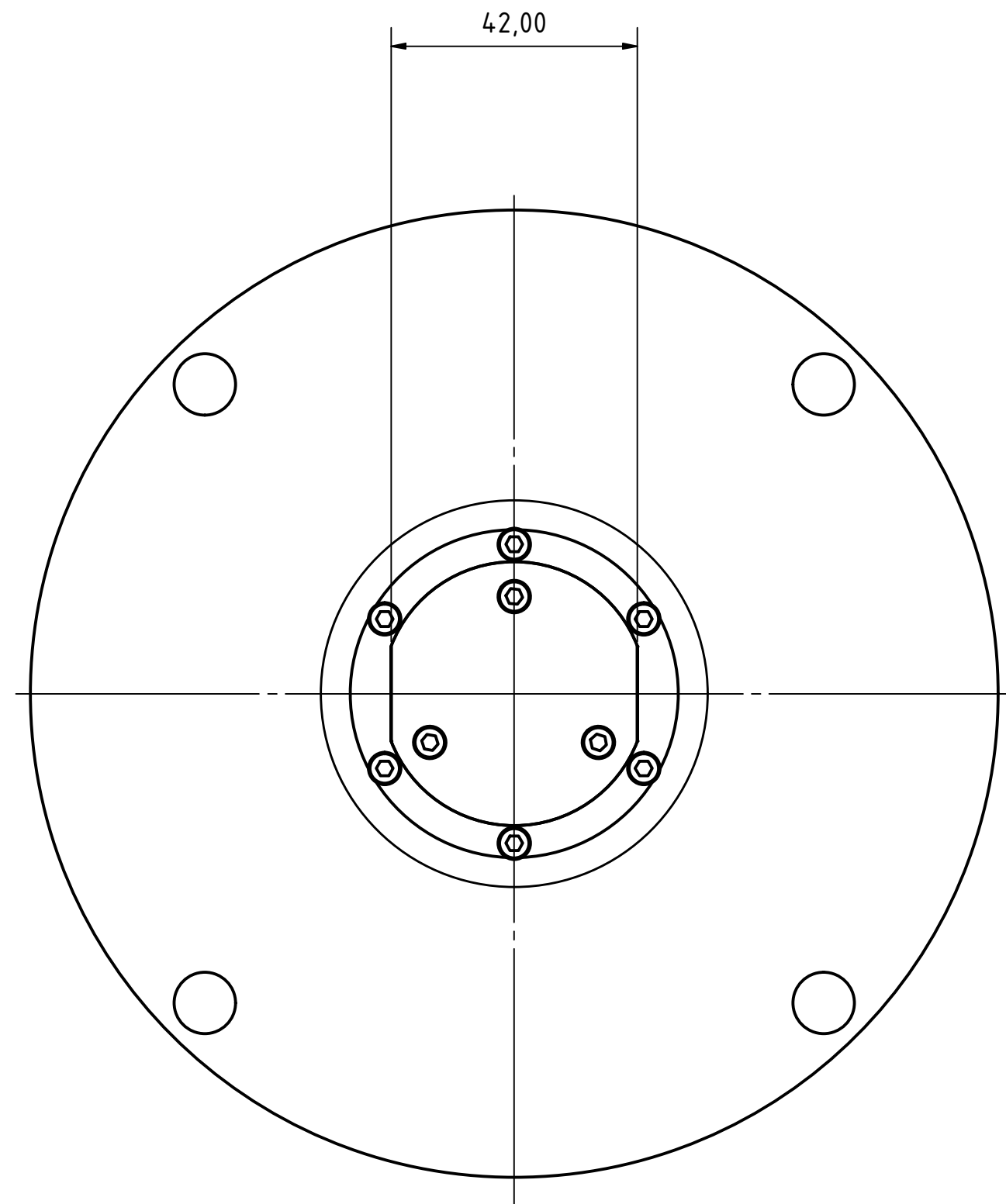
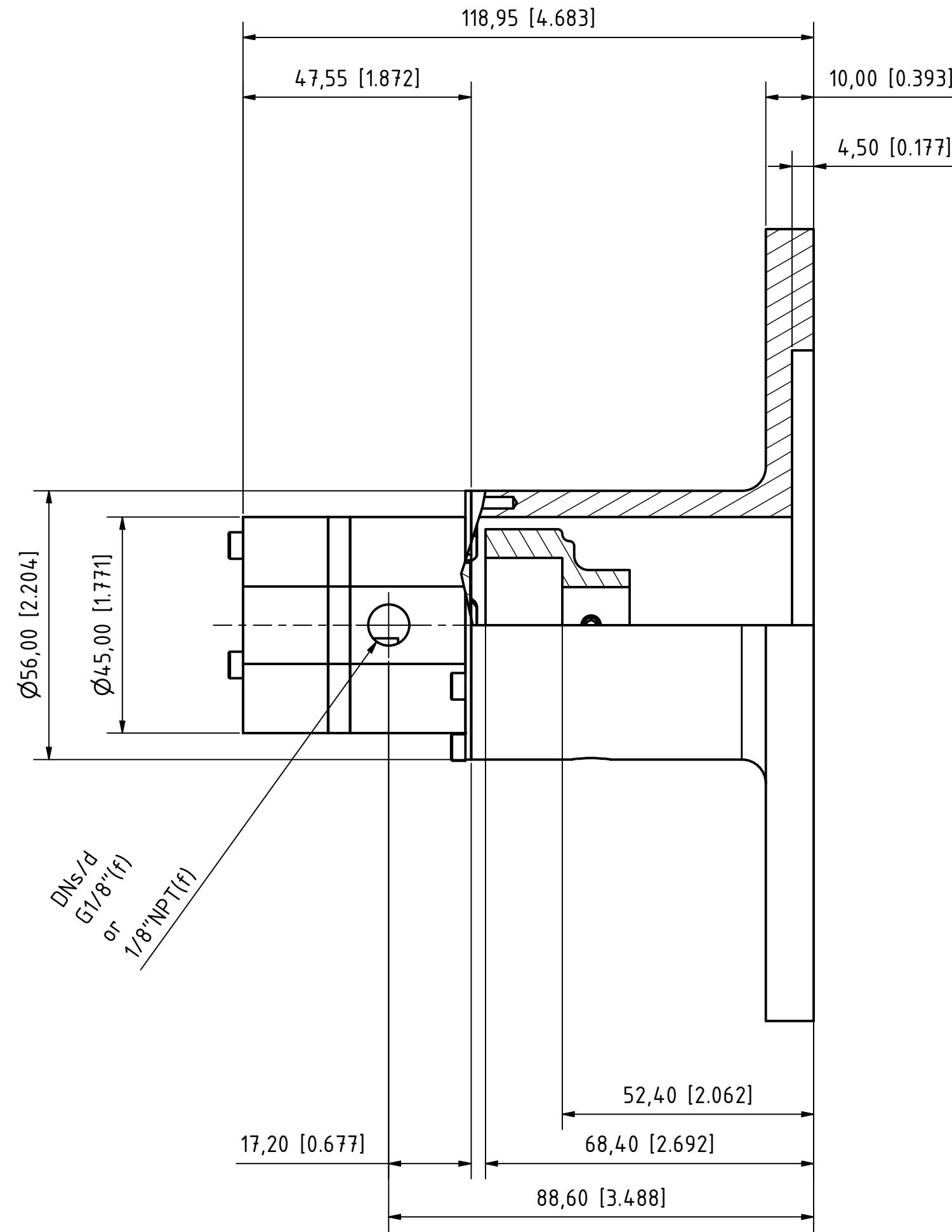
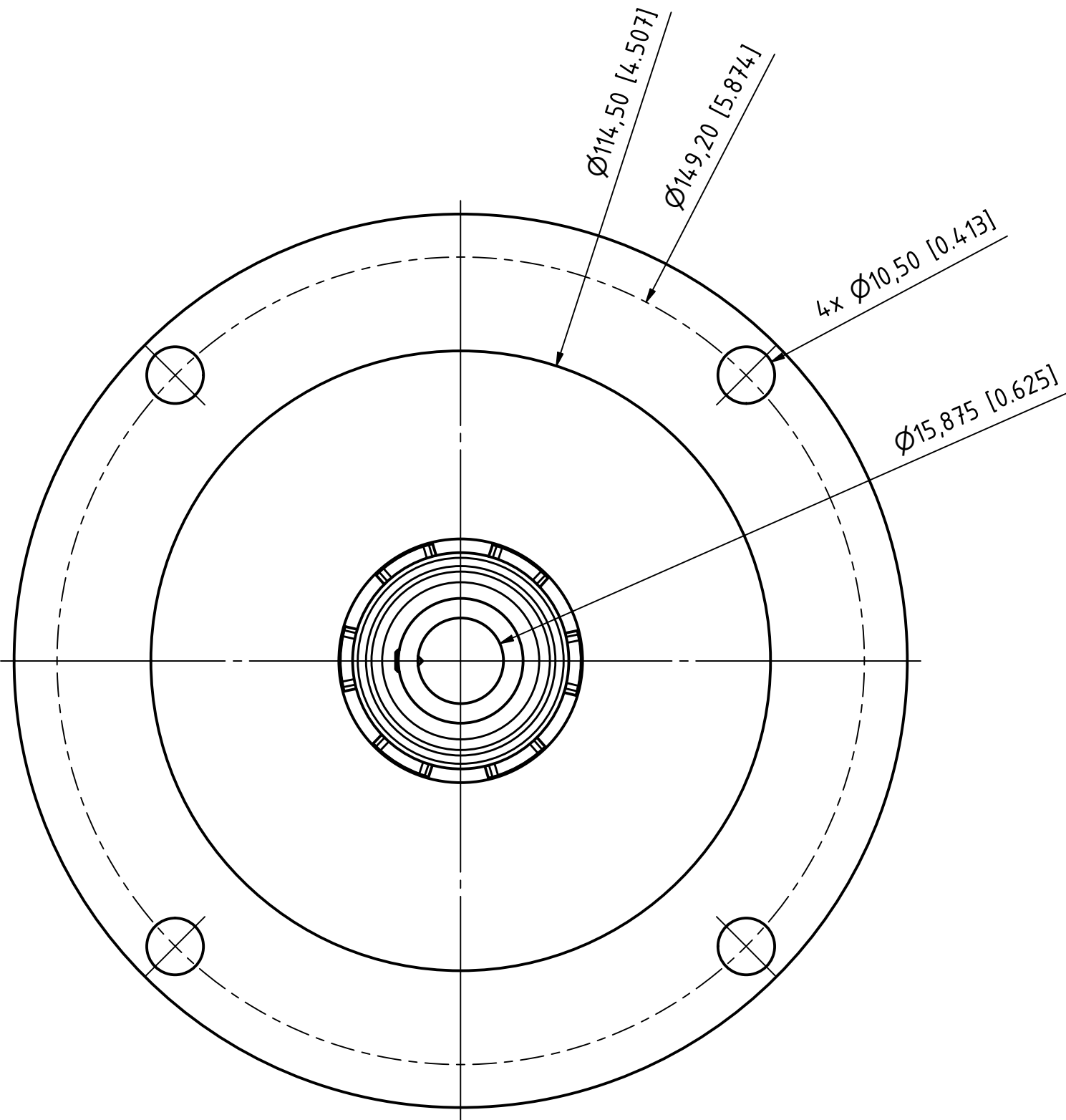
Threaded: 1/8" (f) BSP or NPT

MATERIALS

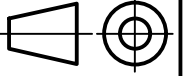
Housing:	PPS
O-Rings:	EPDM, FKM, FFKM
Shafts:	Al2O3 >99%
Gears:	PEEK
Bearings:	PEEK
Containment Can:	Titanium
Internal Magnet:	PEEK / Ferrite Magnet (NdFeB upon request)
External Magnet:	Plastic Bonded Ferrite Magnet
Bracket:	Aluminium

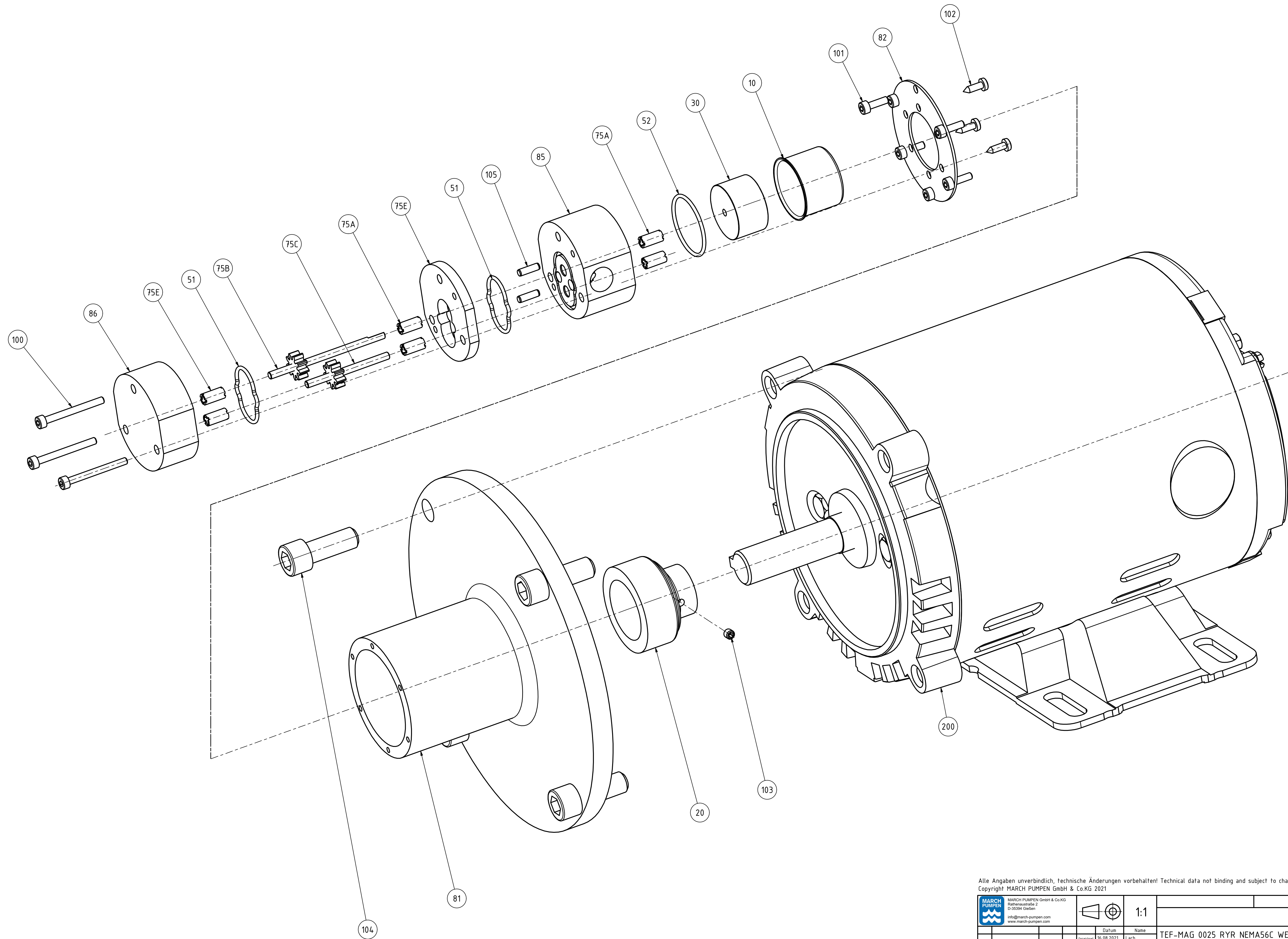


MARCH PUMPEN GmbH
Rathenaustraße 2
D-35394 Gießen
www.march-pumpen.com
info@march-pumpen.com

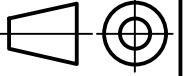


- ABMESSUNGEN
mm [Zoll]
* Maß kann bei anderen Motorenfabrikaten abweichen
- DIMENSIONS
mm [Inch]
* may change with different motor manufacturer
- ANTRIEB
Größe: NEMA56C, max. speed 3500 RPM
- DRIVE
Size: NEMA56C, max. speed 3500 RPM
- ANSCHLÜSSE DN15/d
G1/8" (f) oder 1/8" NPT (f)
Pumpe ist NICHT reversibel.
- CONNECTIONS DN15/d
G1/8" (f) oder 1/8" NPT (f)
Pump is NOT reversible.

Alle Angaben unverbindlich, technische Änderungen vorbehalten! Technical data not binding and subject to change! Copyright MARCH PUMPEN GmbH & Co.KG 2021					
 MARCH PUMPEN GmbH & Co.KG Rathenaustraße 2 D-30504 Gießen info@march-pumpen.com www.march-pumpen.com		 1:1			
		Datum	Name	TEF-MAG 0025 RYR NEMA56C ABMESSUNGEN DIMENSIONS	
		Gezeichnet	Lach		
		Kontrolliert	None		
				DPTM-0025-RYR-N56C	
Status	Änderungen	Datum	Name		



Alle Angaben unverbindlich, technische Änderungen vorbehalten! Technical data not binding and subject to change!
Copyright MARCH PUMPEN GmbH & Co.KG 2021

	MARCH PUMPEN GmbH & Co.KG Rathenaustraße 2 D-30204 Göttingen info@march-pumpen.com www.march-pumpen.com				1:1		
						TEF-MAG 0025 RYR NEMA56C WEG	
						EXPLOSIONSDARSTELLUNG	
						EXPLODED VIEW	
						DPTM-0025-RYR-NEMA56C	
Status	Änderungen	Datum	Name			11	12

PARTS LIST - TEF MAG 0025					
Position	Description	Material	Artikel Nr. / Article code	Stück / Qty.	
10	Containment Can	Titan	TM-0025-0010-Ti	1	
20	External Drive Magnet NEMA56C	Ferrite Magnet, Molded	TM-0025-0020-N56C	1	
30	Internal Magnet Rotor	PEEK + Ferrite Magnet	TM-0025-0030-PK-FM	1	
51	Body Gasket	EPDM	TM-0025-0051-EP	2	
		FFKM	TM-0025-0051-KA		
		FKM	TM-0025-0051-VI		
52	O-Ring	EPDM	TM-0025-0052-EP	1	
		FFKM	TM-0025-0052-KA		
		FKM	TM-0025-0052-VI		
75A	Sleeve Bearing	PEEK	TM-0025-0075A-PK	6	
75B	Drive Gear and Shaft Assembly	PEEK + Ceramic	TM-0025-0075B	1	
75C	Idler Gear and Shaft Assembly	PEEK + Ceramic	TM-0025-0075C	1	
75E	Gear Liner	PPS (Ryton)	TM-0025-0075E-RY	1	
81	Pump Bracket NEMA56C	Aluminium 6061	TM-0025-0081-N56C	1	
82	Pump Adapter Flange	AISI 304	TM-0025-0082-SS	1	
85	Pump Housing 1/4" BSP	PPS (Ryton)	TM-0025-0085-RY	1	
	Pump Housing 1/4" NPT		TM-0025-0085-RY-N		
86	Pump Cover	PPS (Ryton)	TM-0025-0086-RY	1	
100	Cover Screw	A2		3	
101	Pump Adapter Screw	A2		6	
102	Housing Mounting Screw	A2		3	
103	Drive Magnet Screw	A2		1	
104	Motor Mounting Screw	A2	3/8" -16UNC x 1" ANSI B18.3	4	
105	Pin	A2		2	
200	Drive Motor NEMA56C			0	

MARCH PUMPEN

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

1:1

				Datum	Name	TEF-MAG 0025 RYR NEMA56C WEG STÜCKLISTE PARTS LIST
				Gezeichnet	16.08.2021	
				Kontrolliert		
				Norm		
						DPTM-0025-RYR-NEMA56C
Status	Änderungen	Datum	Name			

1

2

3

4

5

6