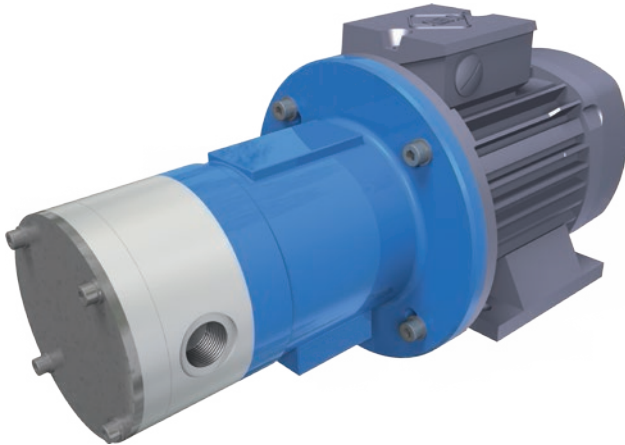


MAGNETICALLY COUPLED ROTARY SLIDING VANE PUMP

Series VANE-MAG MP

MP 614 - 814 - 1014



DESIGN FEATURES

- Positive displacement pump
- Rotary Sliding Vane Pump
- Corrosion resistant due to non-metallic materials
- Magnetically coupled
- Leak-Free
- Rugged
- Wet self-priming
- Compact block design
- Approximately no pulsation
- Middle to high discharge pressure
- Low volumetric flow rates
- Metering capable
- Pure liquids w/o any abrasive solids

PERFORMANCE DATA

Nominal speed:	1450 1/min / 1750 1/min
Nominal frequency:	50 Hz / 60Hz
Nominal flow rate:	
MP 614:	600 l/h / 750 l/h (165 US gph)
MP 814:	800 l/h / 1000 l/h (176 US gph)
MP 1014:	1000 l/h / 1200 l/h (264 US gph)
Discharge pressure, max.:	10 bar (145 psi)
Design pressure:	PN 10 bar (145 psi)
Temperature, max.:	65°C (149°F)
Viscosity, max.:	1000 mPa s
Density, max.:	1,9 kg/dm ³

APPLICATIONS

The VANE-MAG® sliding vane pumps have proven their performance in every application that requires lower flow rates at high discharge pressure, when corrosive liquids must be metered.

Typical Applications:

- Water treatment especially precipitation, flocculation, sedimentation and neutralisation
- Metering pump in Biodiesel production
- Metering pump in laboratory environments
- Chemical dosing / metering applications
- Plant Engineering
- Equipment Engineering
- Pharmaceutical-, Medical-, Bio- Engineering

MATERIALS

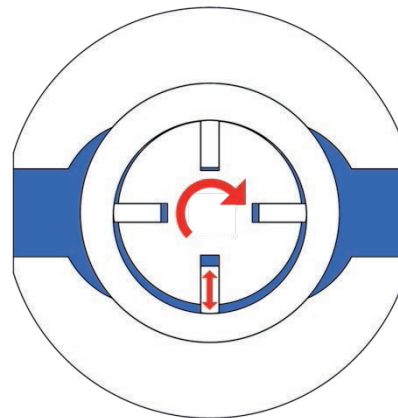
Housing:	PP, PVDF, conductive PVDF
O-Rings:	EPDM, Viton, Kalrez
Rotor:	PVDF-FCR
Stator, Vanes::	CHG „SiC coated Graphite“
Bearings:	SiC

CONNECTIONS

Threads:	G3/4" female, 3/4" NPT female
Lap Joint Flanges:	DN20 PN10, 3/4" ANSI

PRODUCT DESCRIPTION

MARCH Series: VANE-MAG® MP pumps are rotary positive displacement pumps, magnetically coupled and made of non-metallic materials. Characteristic wise, rotary sliding vane pumps generate low volumetric flows with middle to high discharge pressures and approximately no pulsation. The operating principle is based on radial sliding vanes, which are rotating in an eccentric stator.

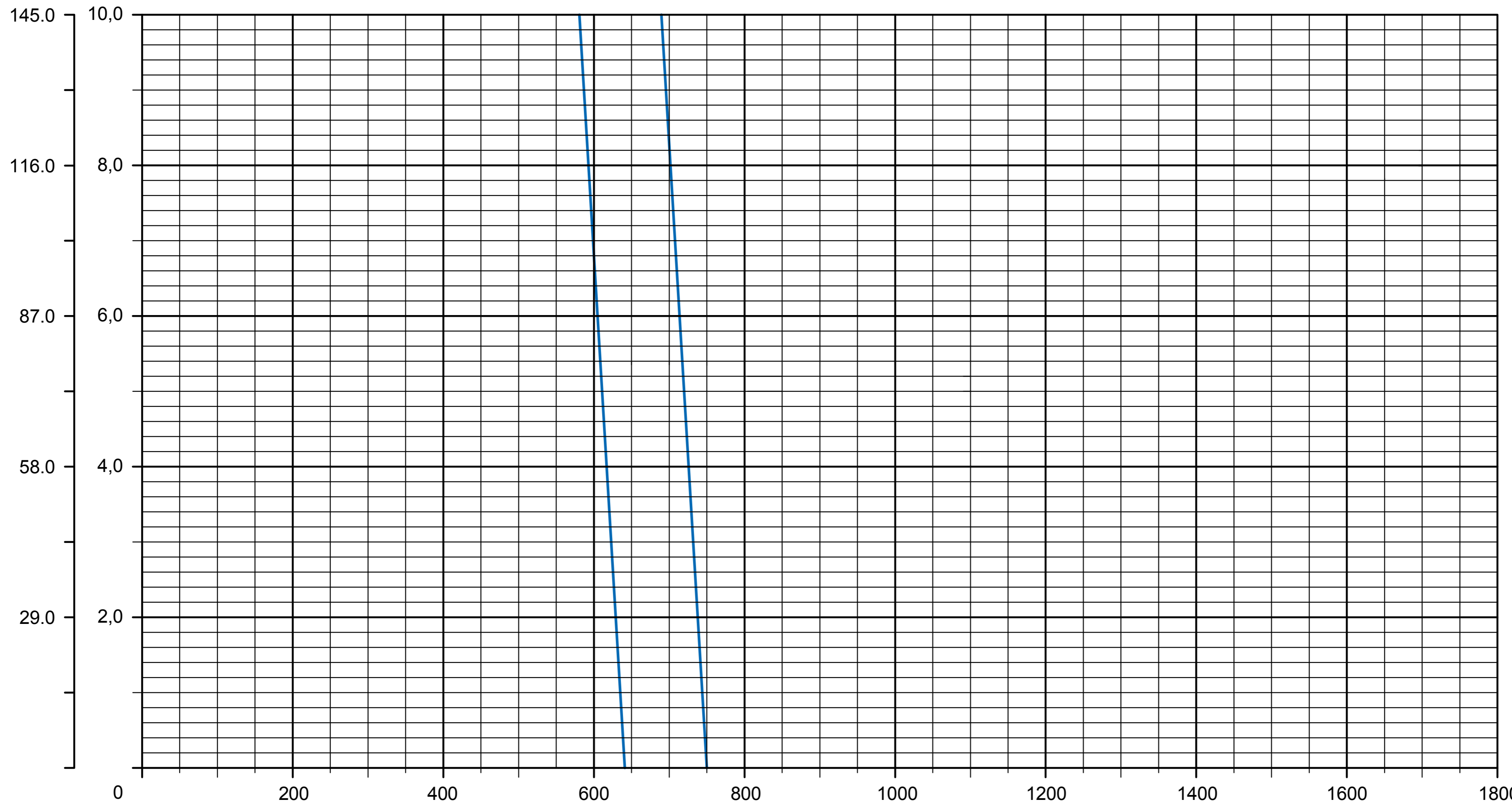


The pump housing is made of corrosion resistant solid block plastics like PP or PVDF. The motor power is transmitted by a frictional connection to the hydraulic part of the pumps by strong Neodymium-Permanent-Magnets. So the pump is able to work without any shaft seals, which guarantee a safe and maintenance-free transfer of the liquid without any leakage of corrosive, toxic and explosive fluids. Pumps for hazardous explosive areas, zone 1 or 2, can be made out of conductive PVDF.

MOTOR ADAPTION

EU Version:	IEC Size 80 B35, 0,55 - 0,75kW, 1500 1/min
US Version:	NEMA56C, 0.75 HP NEMA145TC, 1.0 HP 1750 1/min

H [psi] H [bar]



n [1/min]

A = 1450 1/min
B = 1750 1/min

Q [l/h]

Q [U.S. GPM]



MARCH PUMPEN GmbH
Rathenaustraße 2
D-35394 Gießen

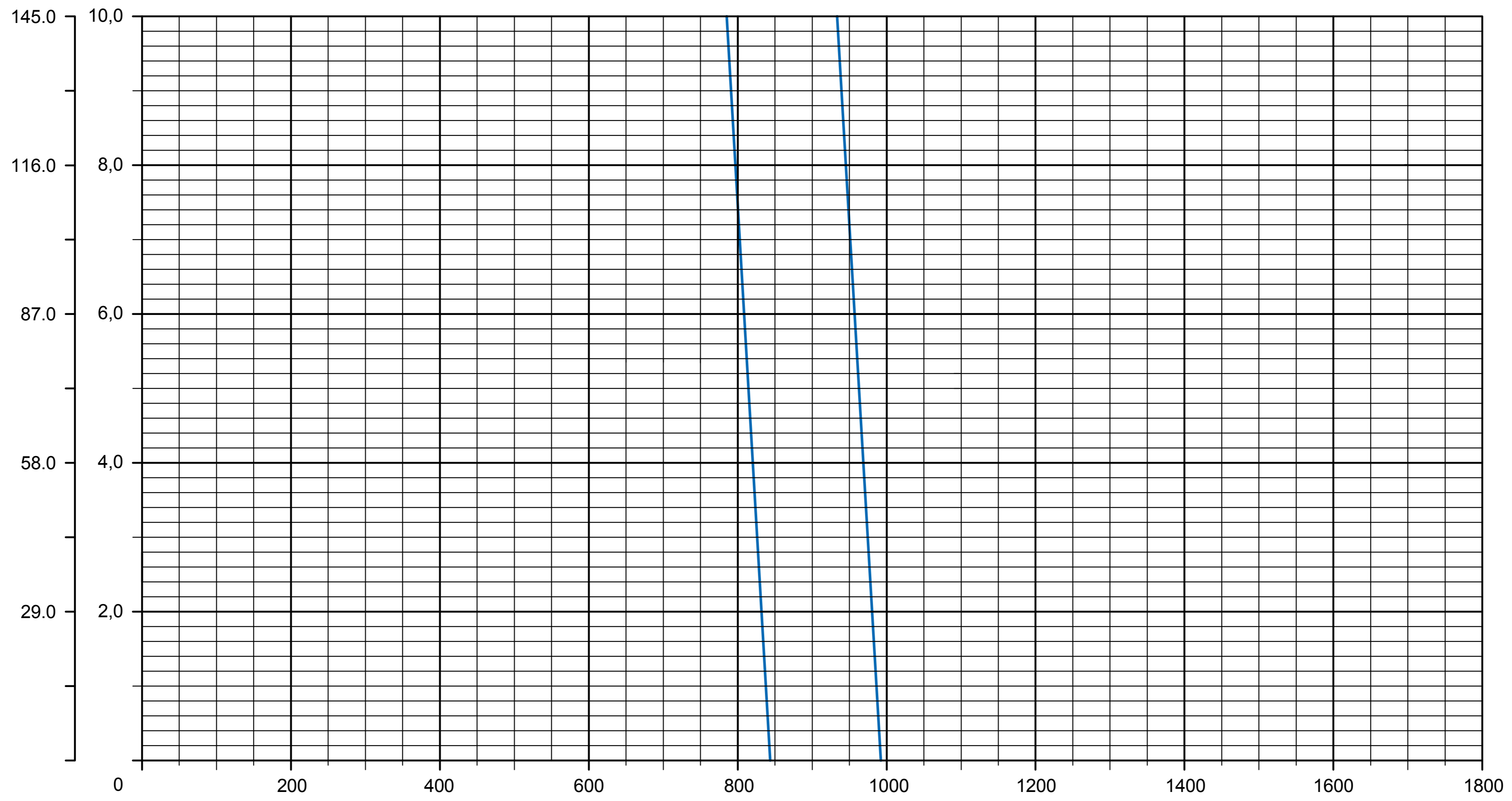
www.march-pumpen.com
info@march-pumpen.com

KENNLINIEN / PERFORMANCE CURVES			
Series	VANE-MAG		
Pump Size	VANE-MAG MP 614		
Motor Power	0,55kW / 0.75HP		
Speed	1450 / 1750 1/min		
Fluid Viscosity	1 mm ² /s	Fluid Density	1 kg/dm ³

H [psi] H [bar]

n [1/min]

A = 1450 1/min
B = 1750 1/min



0.88 1.76 2.64 3.52 4.4 5.28 6.16 7.04 7.93 Q [U.S. GPM]

KENNLINIEN / PERFORMANCE CURVES			
Series	VANE-MAG		
Pump Size	VANE-MAG MP 814		
Motor Power	0,75kW / 1.0HP		
Speed	1450 / 1750 1/min		
Fluid Viscosity	1 mm ² /s	Fluid Density	1 kg/dm ³



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

H [psi] H [bar]

145.0 10,0

116.0 8,0

87.0 6,0

58.0 4,0

29.0 2,0

0

200

400

600

800

1000

1200

1400

1600

1800

Q [l/h]

0.88

1.76

2.64

3.52

4.4

5.28

6.16

7.04

7.93

Q [U.S. GPM]

n [1/min]

A = 1450 1/min

B = 1750 1/min

A

B

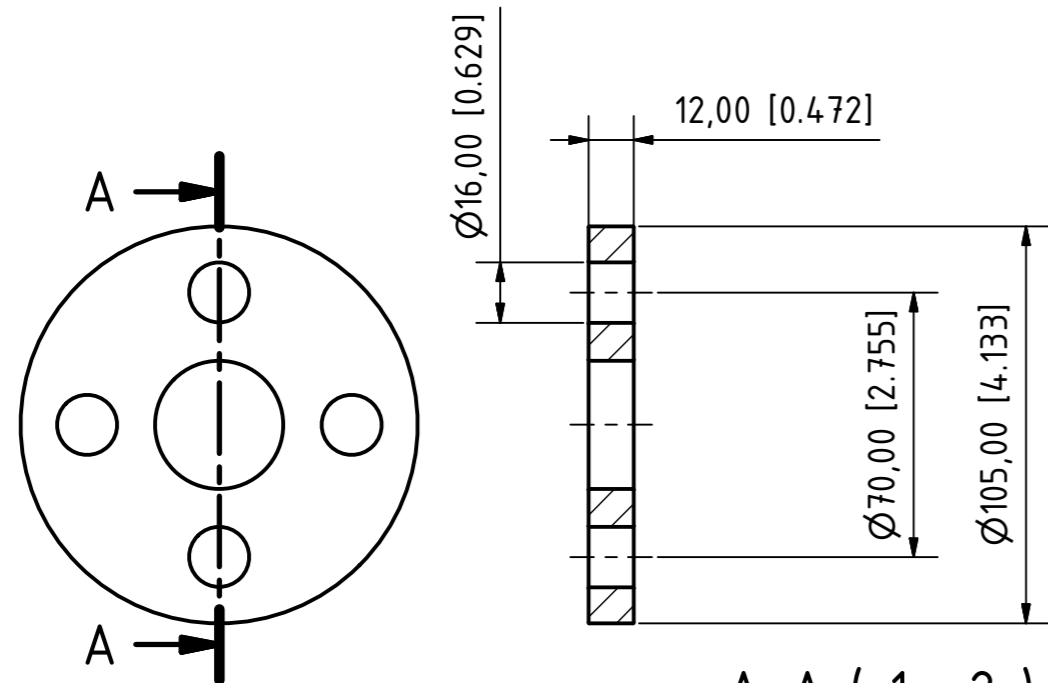
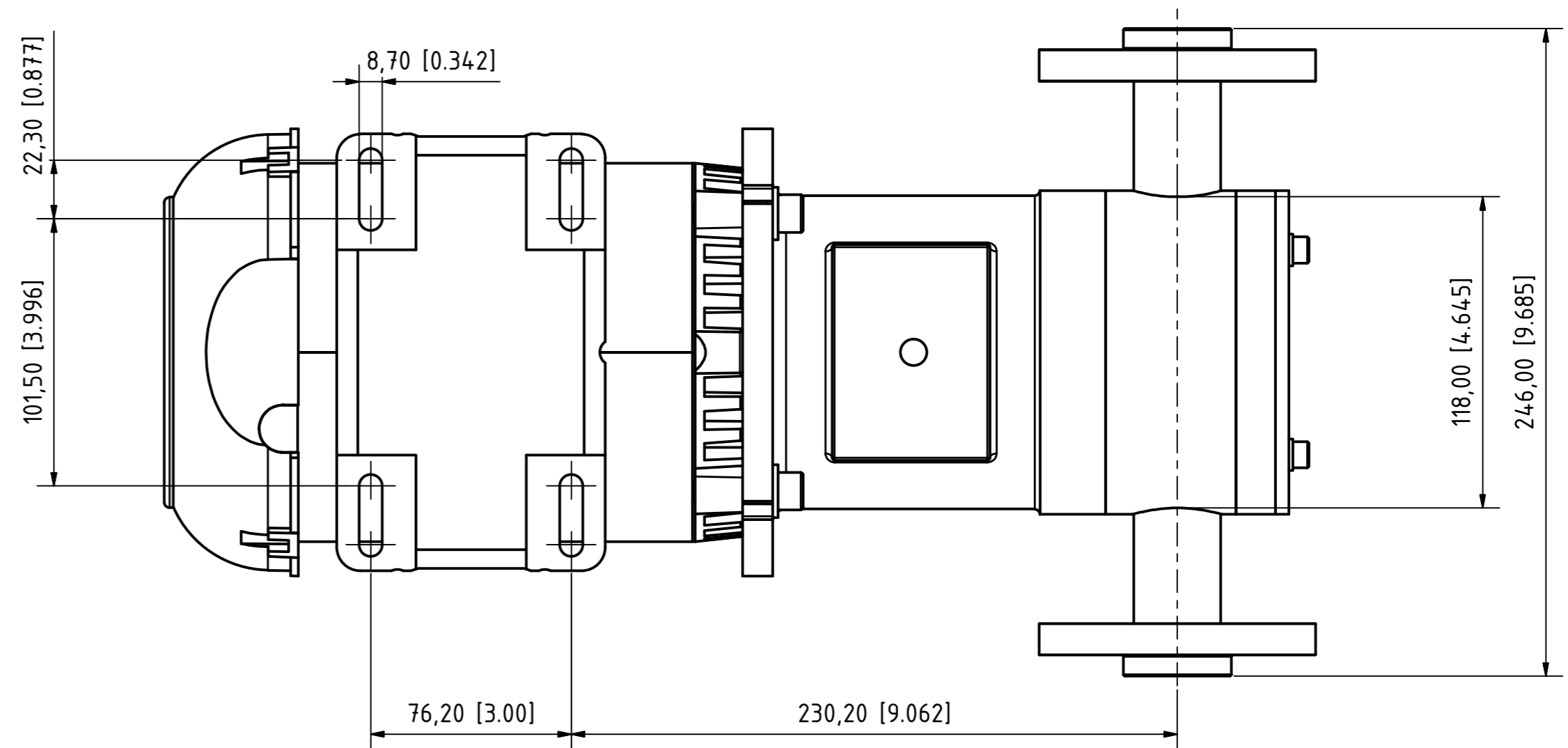
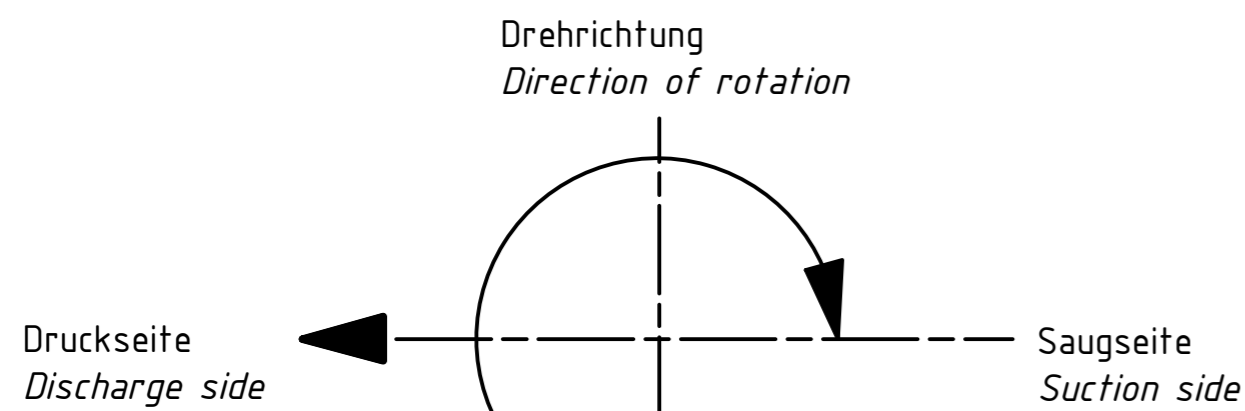
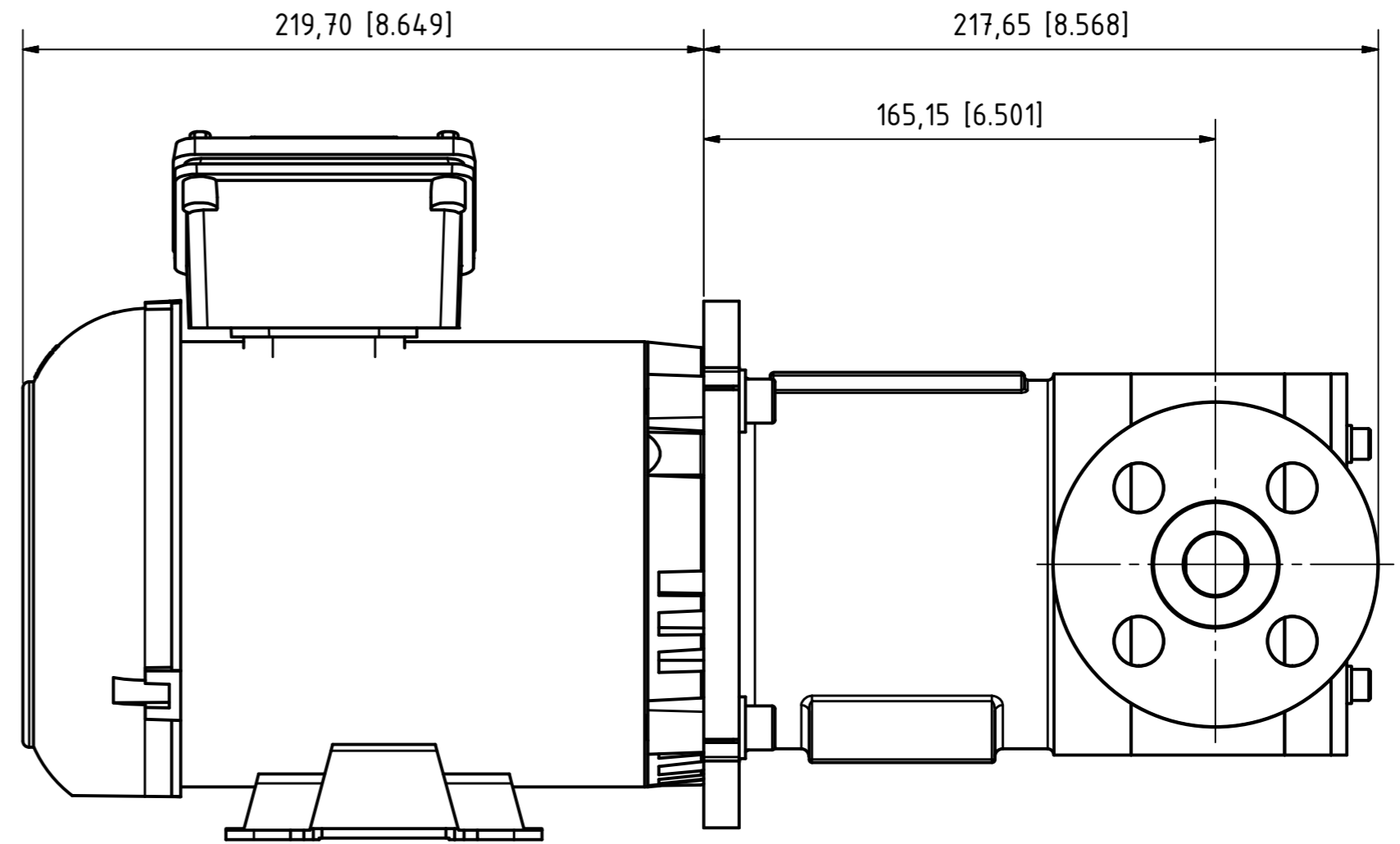
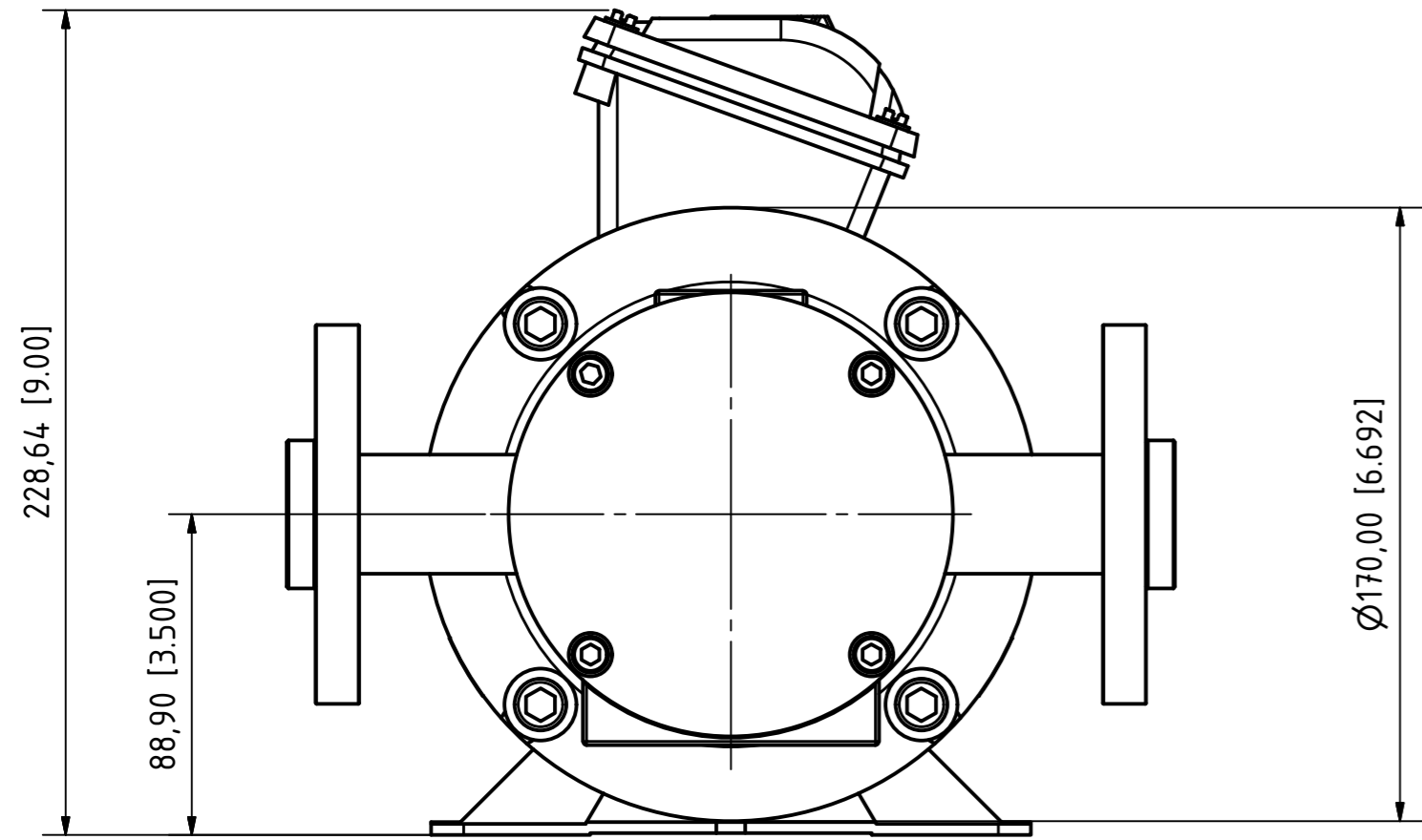


MARCH PUMPEN GmbH
Rathenaustraße 2
D-35394 Gießen

www.march-pumpen.com
info@march-pumpen.com

KENNLINIEN / PERFORMANCE CURVES

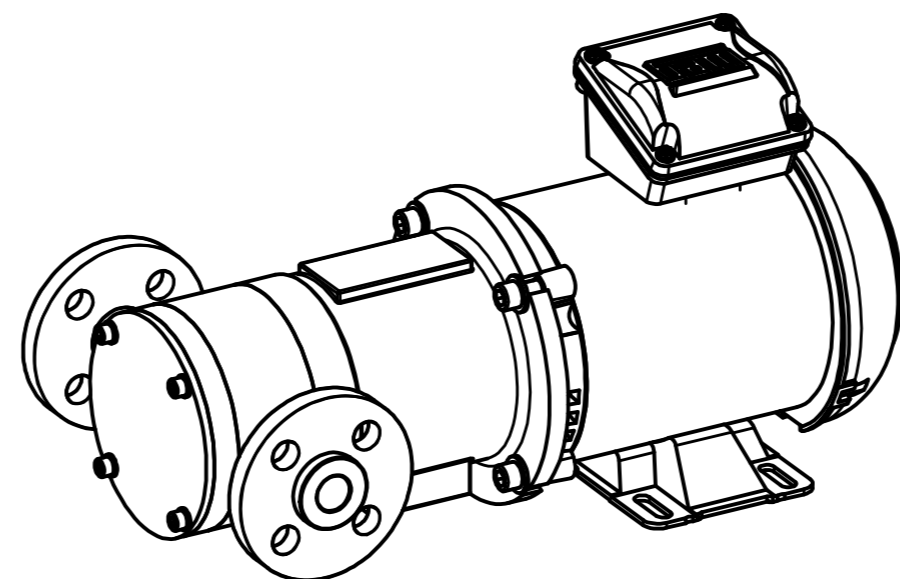
Series	VANE-MAG		
Pump Size	VANE-MAG MP 1014		
Motor Power	0,75kW / 1.0HP		
Speed	1450 / 1750 1/min		
Fluid Viscosity	1 mm ² /s	Fluid Density	1 kg/dm ³



DIMENSIONS
mm [inch]

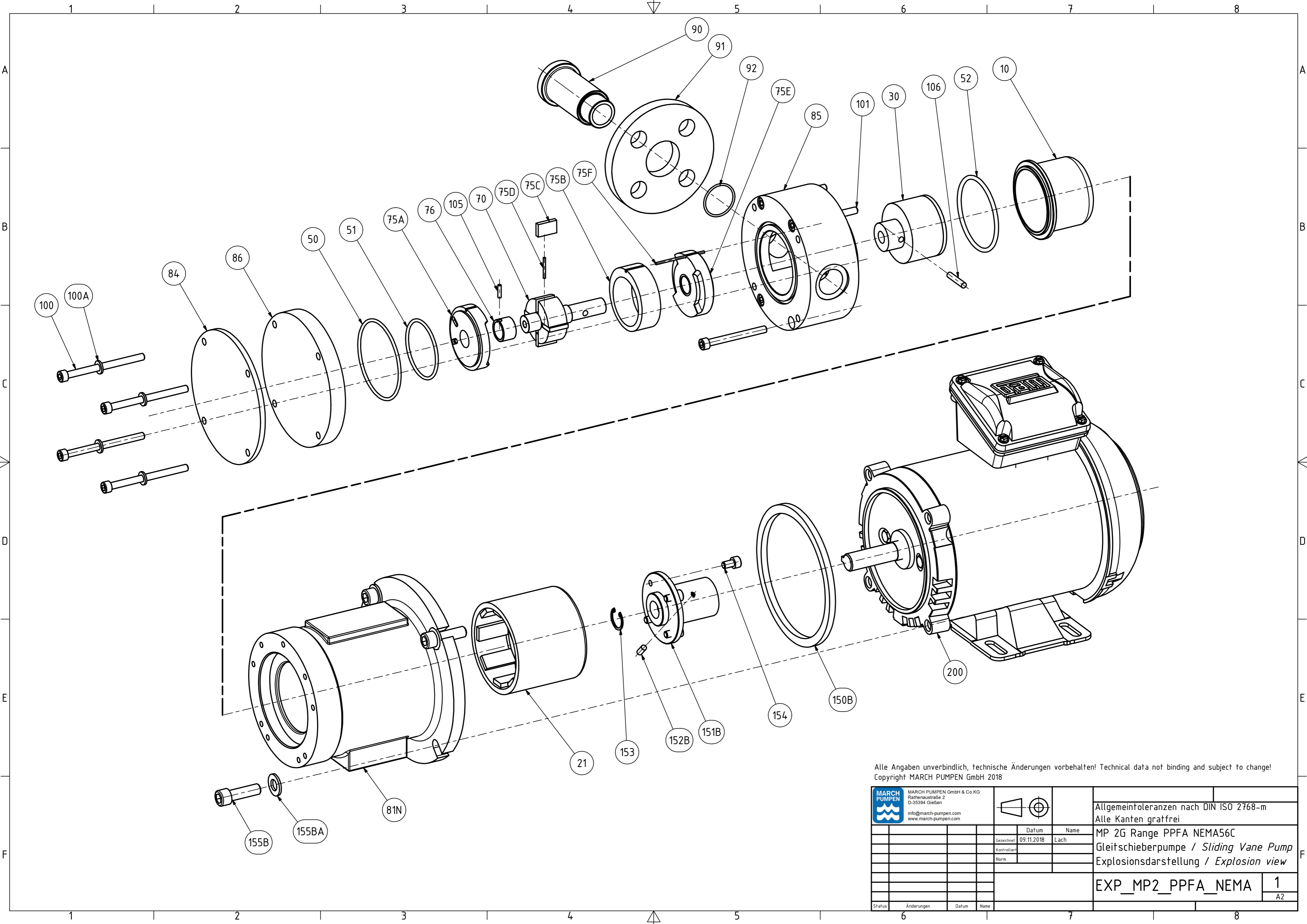
DRIVE
TEFC three phase asynchronous squirrel cage electric motor
acc. to NEMA Standards
Manufacturer: WEG
Size: 56C-Face, 0.5 - 1.0 HP, 1750 rpm
Pump Bracket and Drive Magnet adapted to NEMA 56C-Face

CONNECTIONS
Lap Joint Flange ANSI 3/4" acc. to ANSI B 16.5 #150lbs
or
3/4" BSP / NPT female



Alle Angaben unverbindlich, technische Änderungen vorbehalten! Technical data not binding and subject to change!
Copyright MARCH PUMPEN GmbH & Co.KG 2014

	MARCH PUMPEN GmbH Rätthausstraße 2 D-35394 Gießen Tel.: (+49) (0)641-686806-0 Fax.: (+49) (0)641-686806-60			1:2	Pump weight: 15kg	
	Gezeichnet 09.11.2018	Name Lach			VANE-MAG MP 2G Range PPF ANSI - NEMA56C	
Kontrolliert Norm	Datum Name	MP2G_PPFA_NEMA		1 A2		
Status	Änderungen	Datum	Name			



Alle Angaben unverbindlich, technische Änderungen vorbehalten! Technical data not binding and subject to change!
 Copyright MARCH PUMPEN GmbH 2018

	MARCH PUMPEN GmbH & Co.KG Rölltenstraße 2 D-35394 Gießen info@march-pumpen.com www.march-pumpen.com			Allgemeintoleranzen nach DIN ISO 2768-m Alle Kanten gratfrei	
	Gezeichnet 09.11.2018	Name Lach		MP 2G Range PPFA NEMA56C Gleitschieberpumpe / Sliding Vane Pump Explosionsdarstellung / Explosion view	
Norm	Datum	Name	EXP_MP2_PPFA_NEMA		1 A2
Status	Änderungen	Datum	Name		