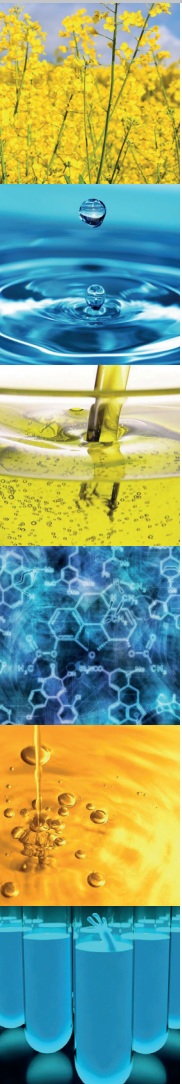
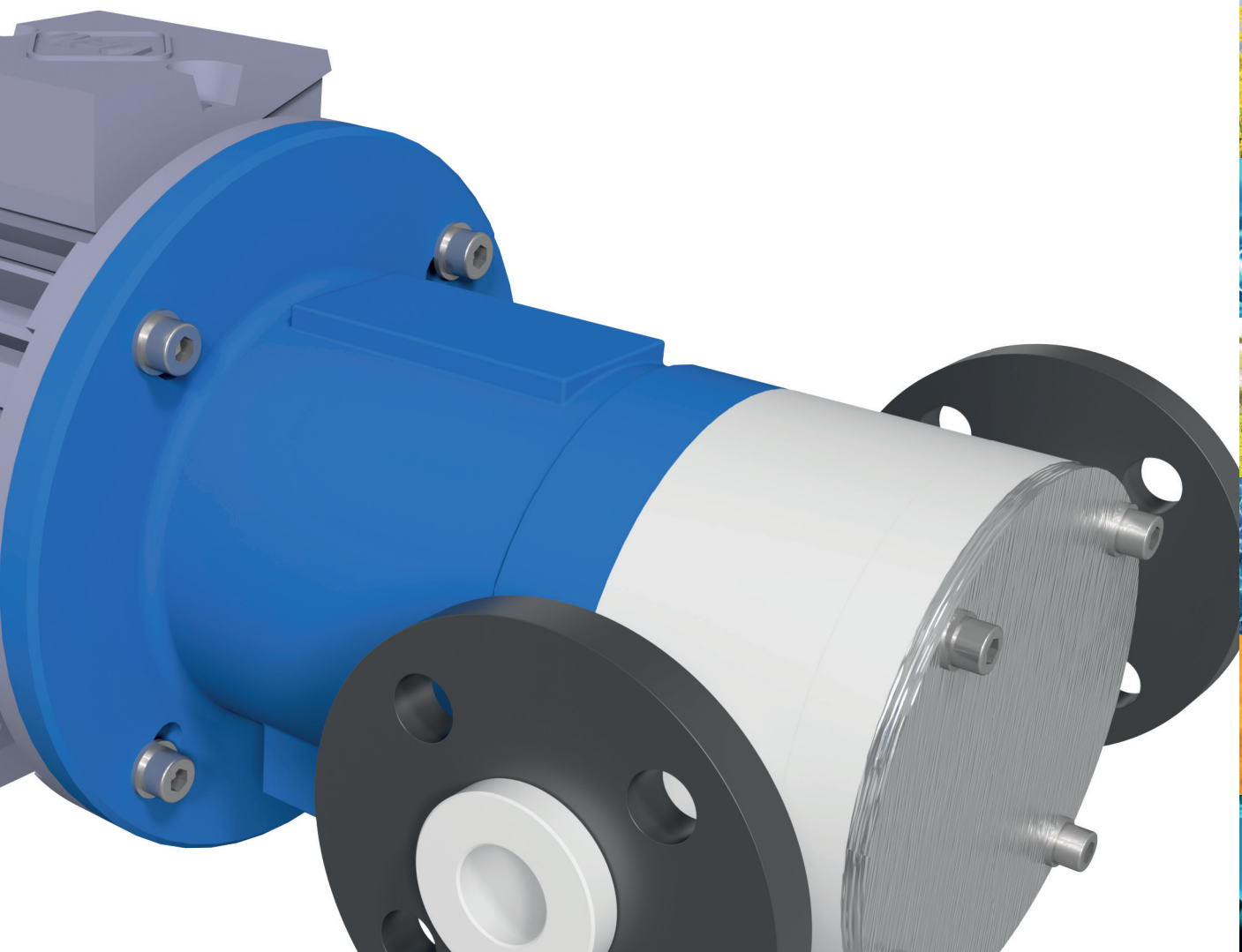


MAGNETIC DRIVEN ROTARY SLIDING VANE PUMPS

Series VANE-MAG® MP

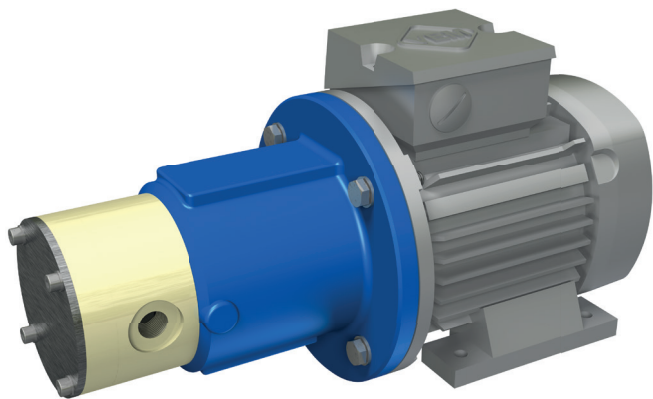


...ADVANCED
SOLUTIONS...

MAGNETICALLY COUPLED ROTARY SLIDING VANE PUMP

Series VANE-MAG MP

MP 114 - 214 - 314 - 414 - 514 (MP I° Range)



PERFORMANCE DATA

Nominal speed:	1450 1/min / 1750 1/min
Nominal frequency:	50 Hz / 60Hz
Nominal flow rate:	
MP 114:	150 l/h / 200 l/h (52,83 US gph)
MP 214:	240 l/h / 280 l/h (73,97 US gph)
MP 314:	290 l/h / 380 l/h (100,39 US gph)
MP 414:	400 l/h / 495 l/h (130,77 US gph)
MP 514:	500 l/h / 585 l/h (154,54 US gph)
Differential pressure, max:	5 bar (72.52 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:	Polypropylene, PVDF
O-Rings:	EPDM, Viton, Kalrez
Rotor:	PVDF-FCR
Stator, Vanes.:	Phenoli Resin Carbon-Graphite
Bearings:	SiC

CONNECTIONS

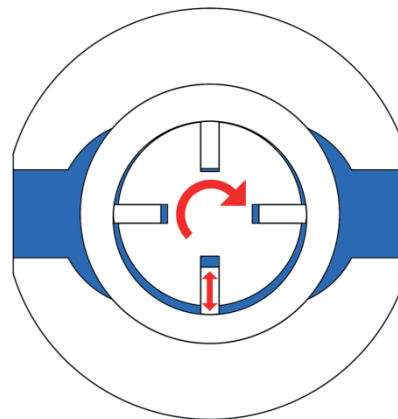
Threads:	G3/8" female, 1/2" NPT female
Lap Joint Flanges:	DN15 PN10, 1/2" ANSI

DESIGN FEATURES

- Rotating positive displacement pump
- 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 capacity flow rates
- Metering capable

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.

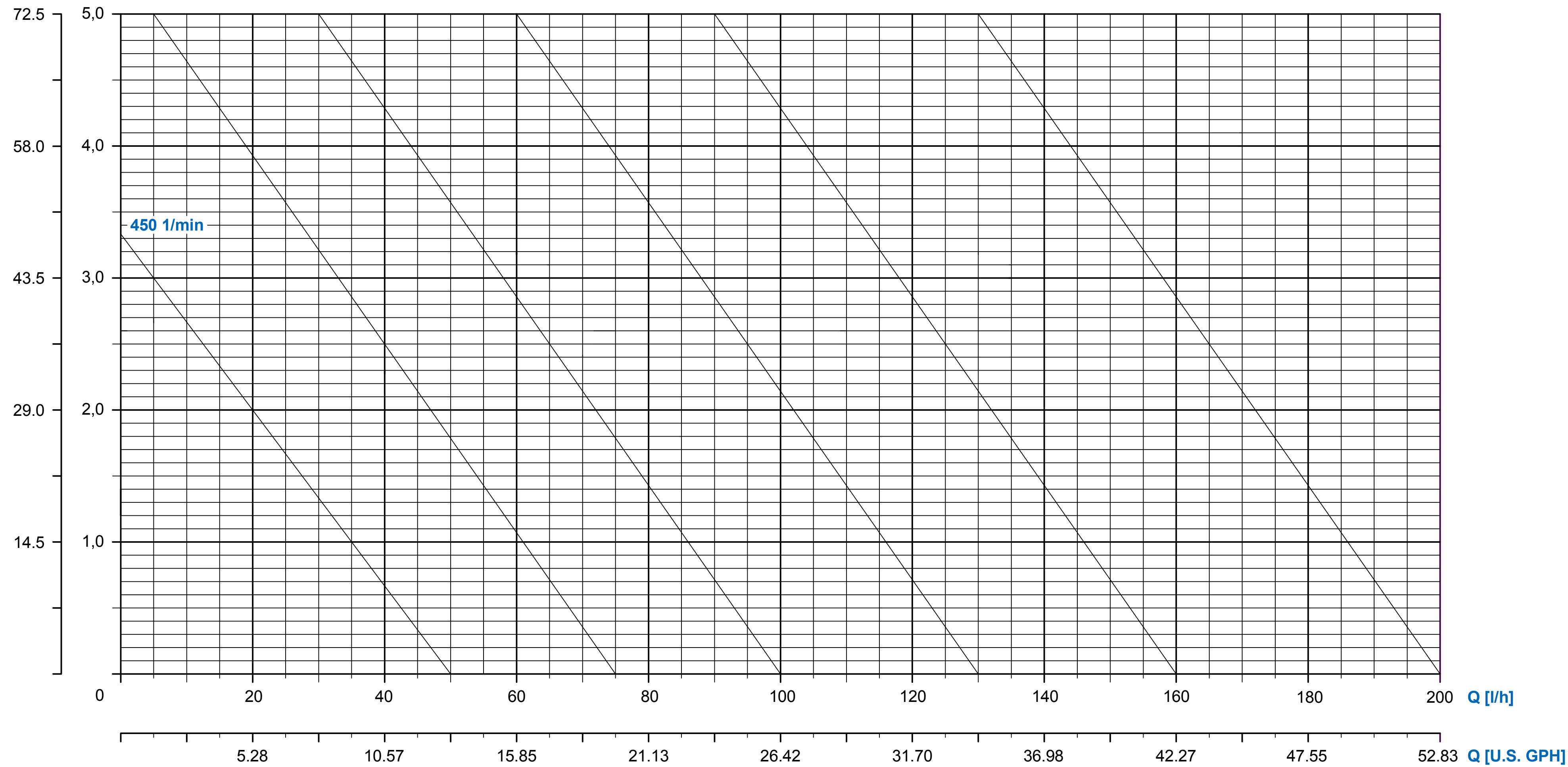


The pump housing is made of corrosion resistant solid block plastics like PP or PVDF. The motor power is transmitted by a frictional connection to the hydraulic part of the pumps by strong Neodymium-Permanent-Magnets. So the pump is able to work without any shaft seals, which guarantees a safe and maintenance-free 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 71 B35, 0,37kW 1500 1/min
US Version:	NEMA56C, 0.5 HP 1750 1/min

H [psi] H [bar]

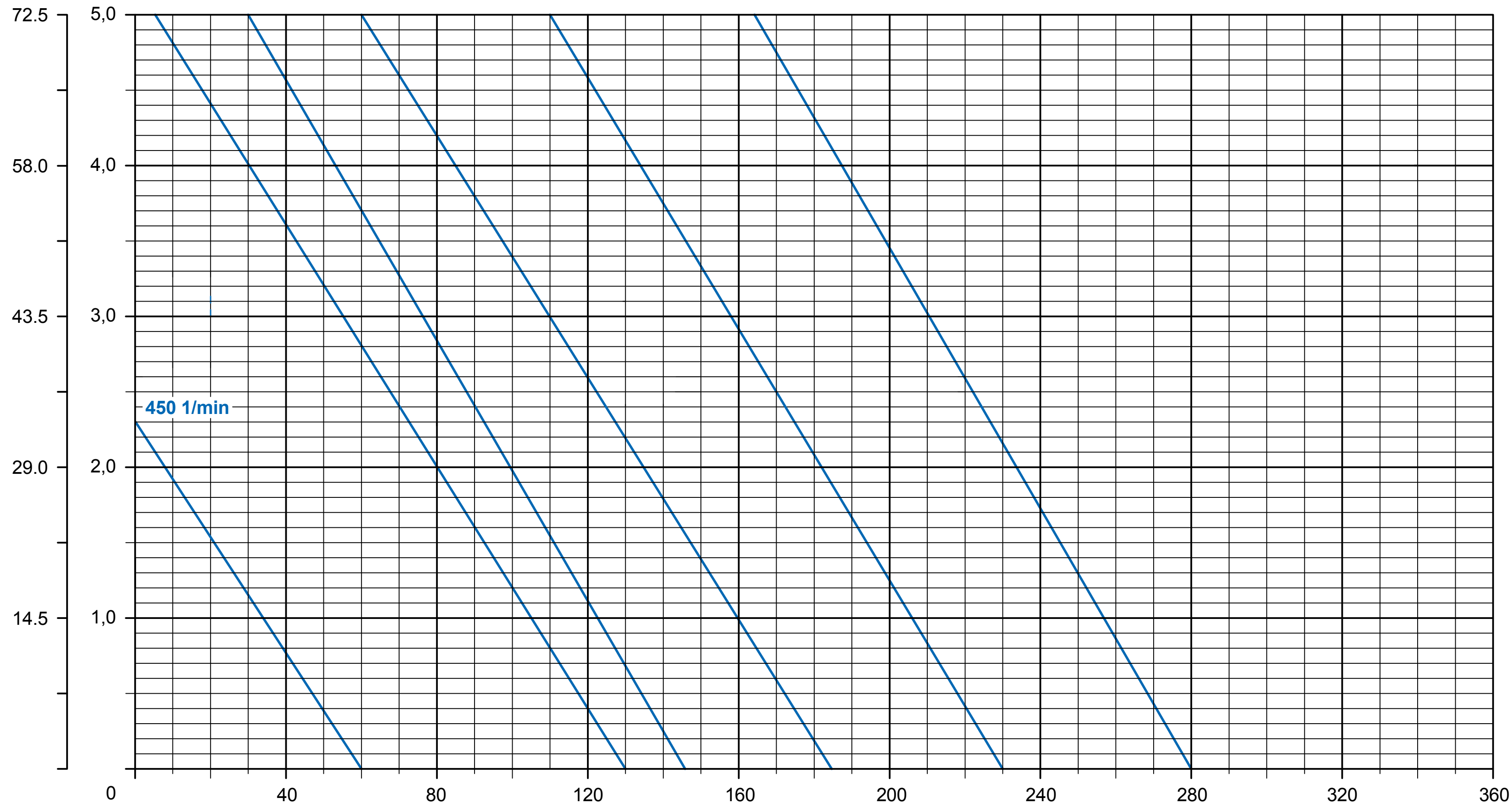


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 info@march-pumpen.com

KENNLINIEN / PERFORMANCE CURVES			
Series	VANE-MAG		
Pump Size	MP 114		
Motor Power	0,12kW	0,25kW	0,37kW / 0.5HP
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

H [psi] H [bar]

750 1/min 950 1/min 1150 1/min 1450 1/min 1750 1/min



Q [l/h]

Q [U.S. GPH]



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KENNLINIEN / PERFORMANCE CURVES			
Series	VANE-MAG		
Pump Size	MP 214		
Motor Power	0,12kW	0,25kW	0,37kW / 0.5HP
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

H [psi] H [bar]

450 1/min

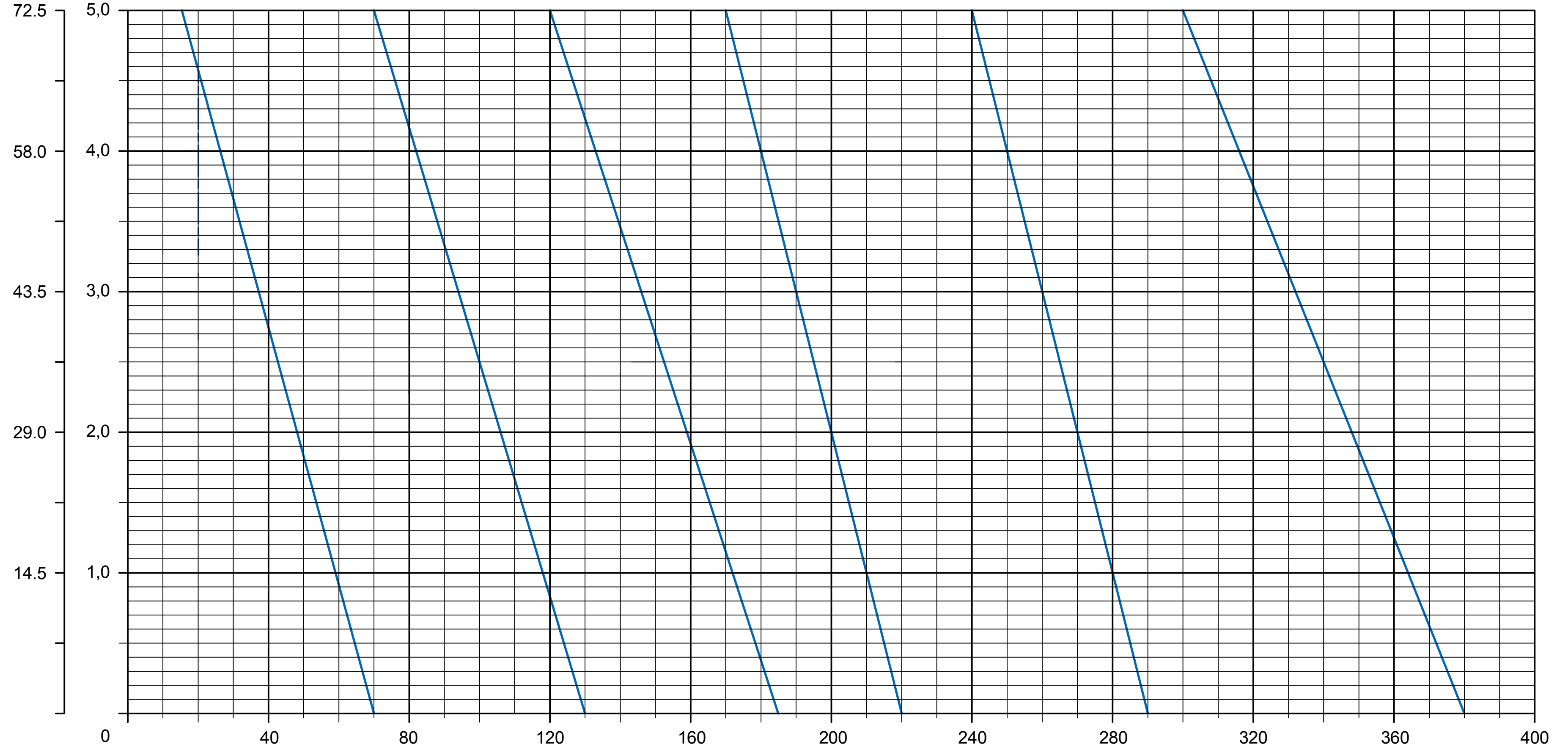
750 1/min

950 1/min

1150 1/min

1450 1/min

1750 1/min



Q [l/h]

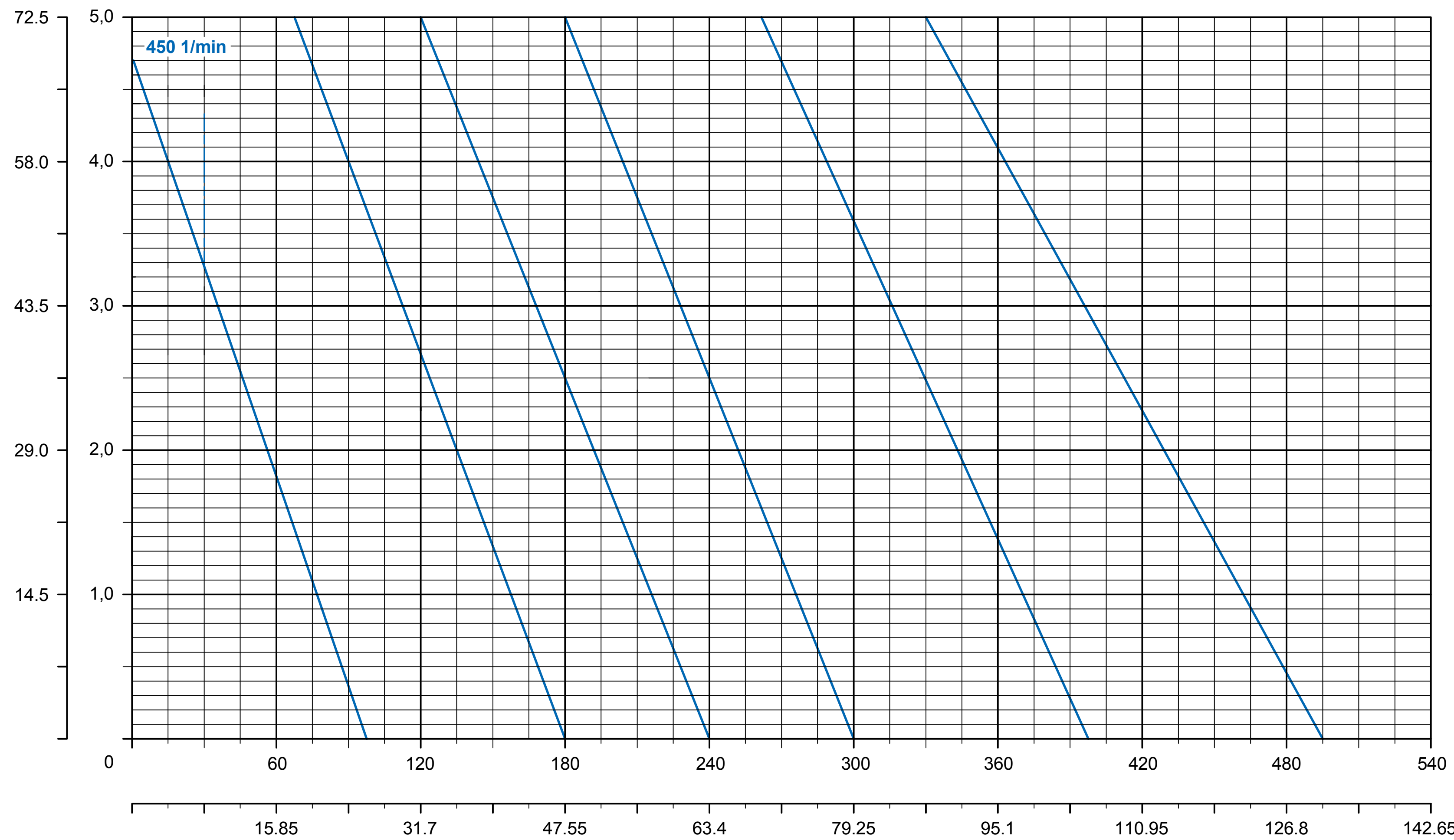
Q [U.S. GPH]



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KENNLINIEN / PERFORMANCE CURVES			
Series	VANE-MAG		
Pump Size	MP 314		
Motor Power	0,12kW	0,25kW	0,37kW / 0.5HP
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

H [psi] H [bar]



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KENNLINIEN / PERFORMANCE CURVES			
Series	VANE-MAG		
Pump Size	MP 414		
Motor Power	0,12kW	0,25kW	0,37kW / 0.5HP
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

H [psi] H [bar]

450 1/min

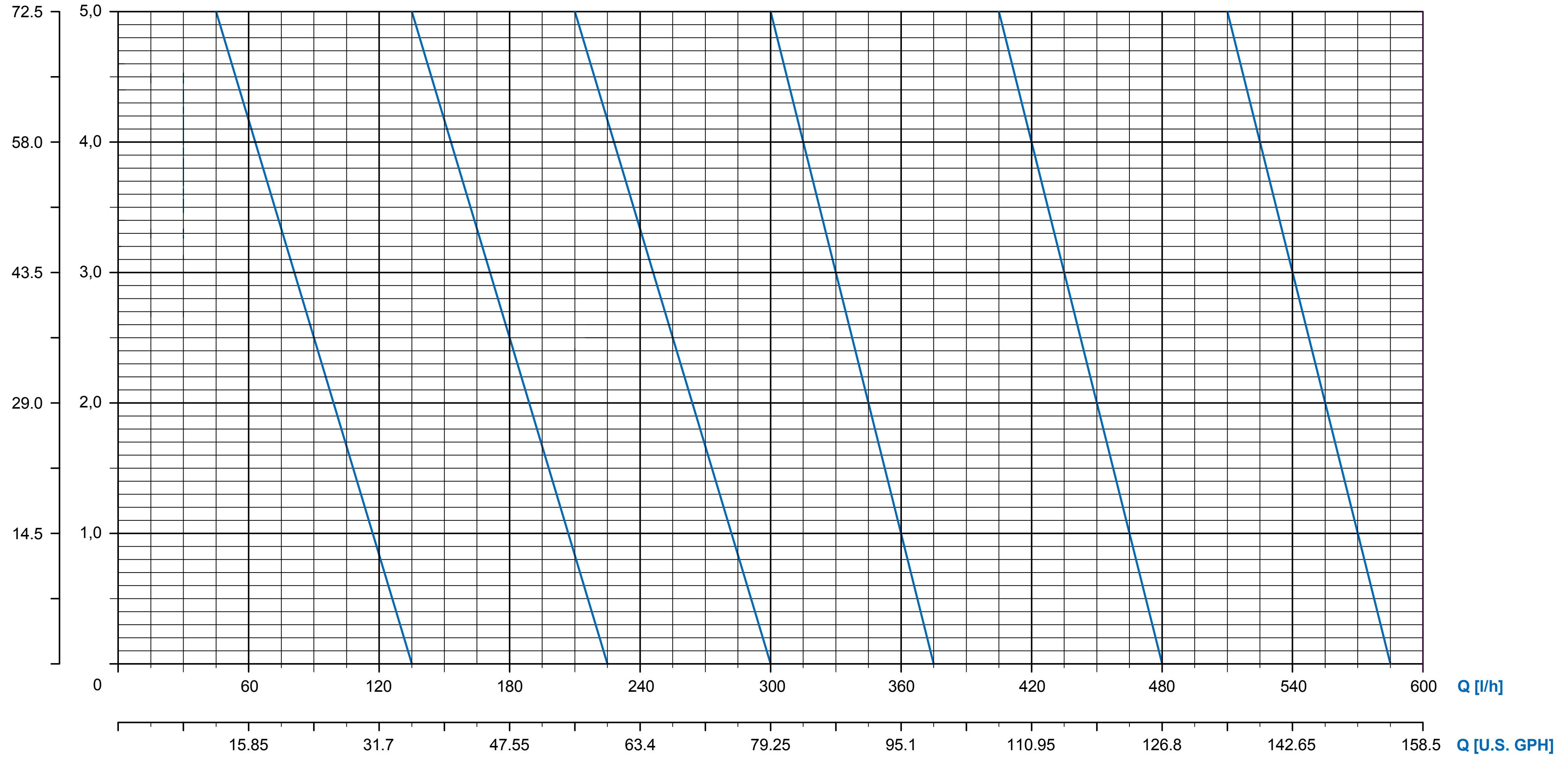
750 1/min

950 1/min

1150 1/min

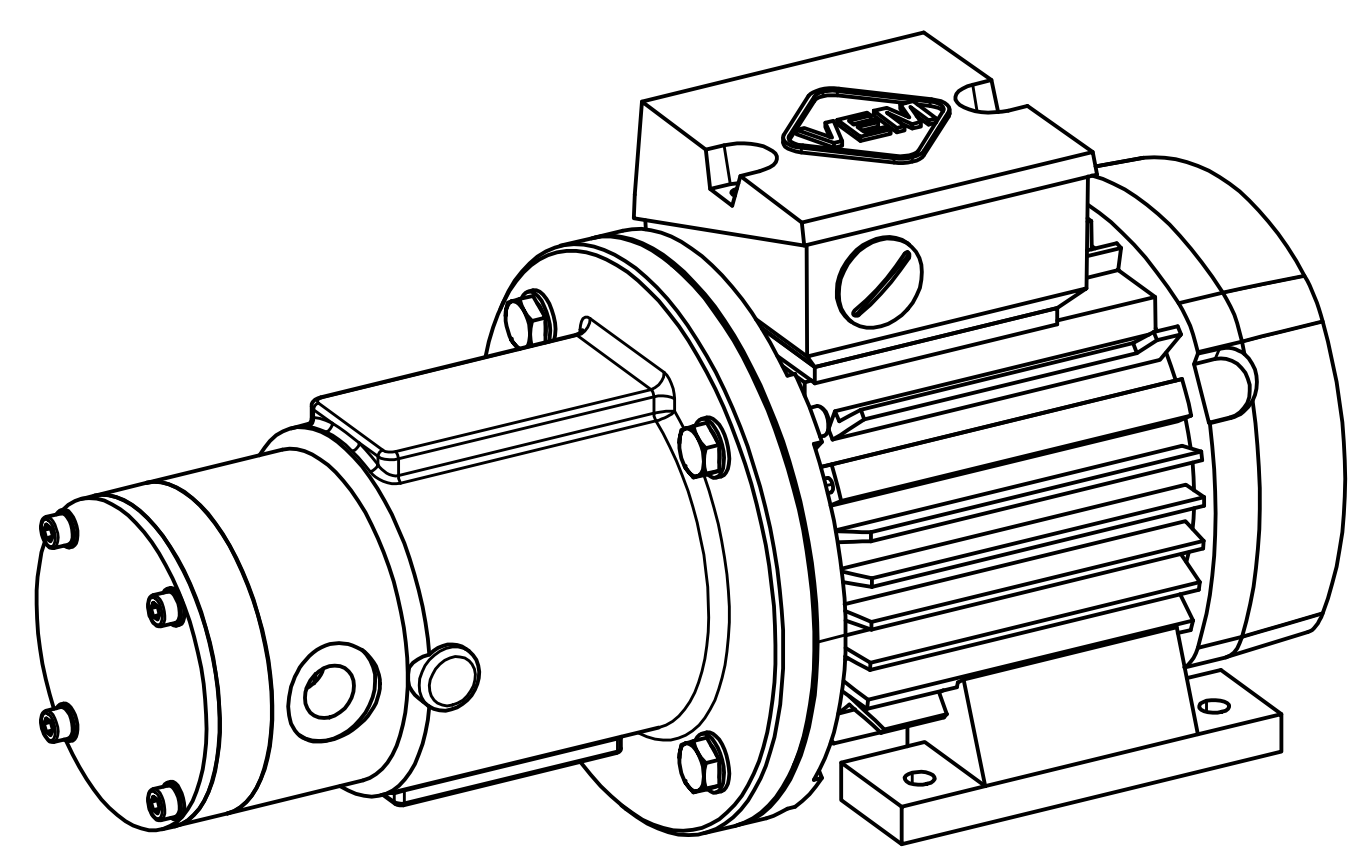
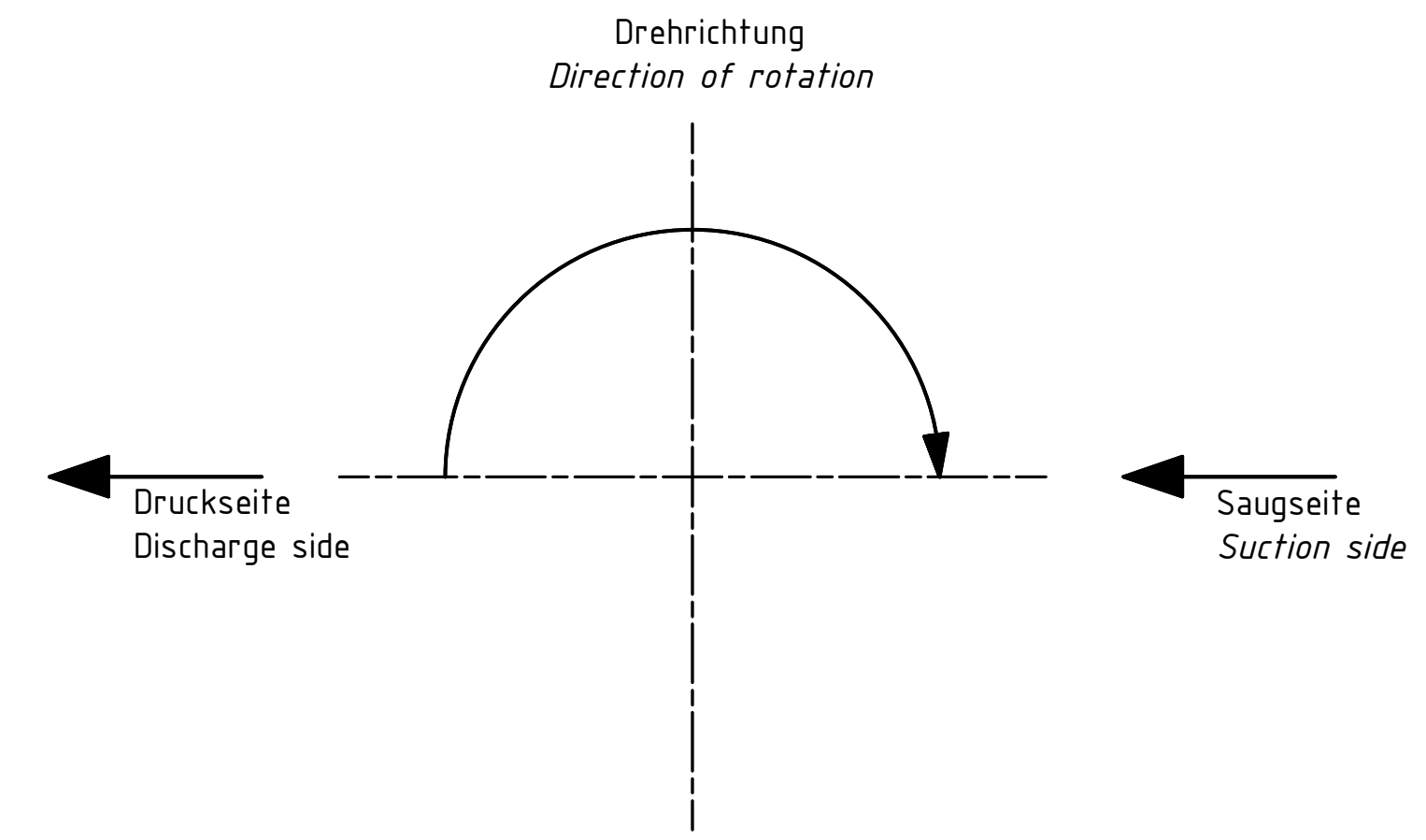
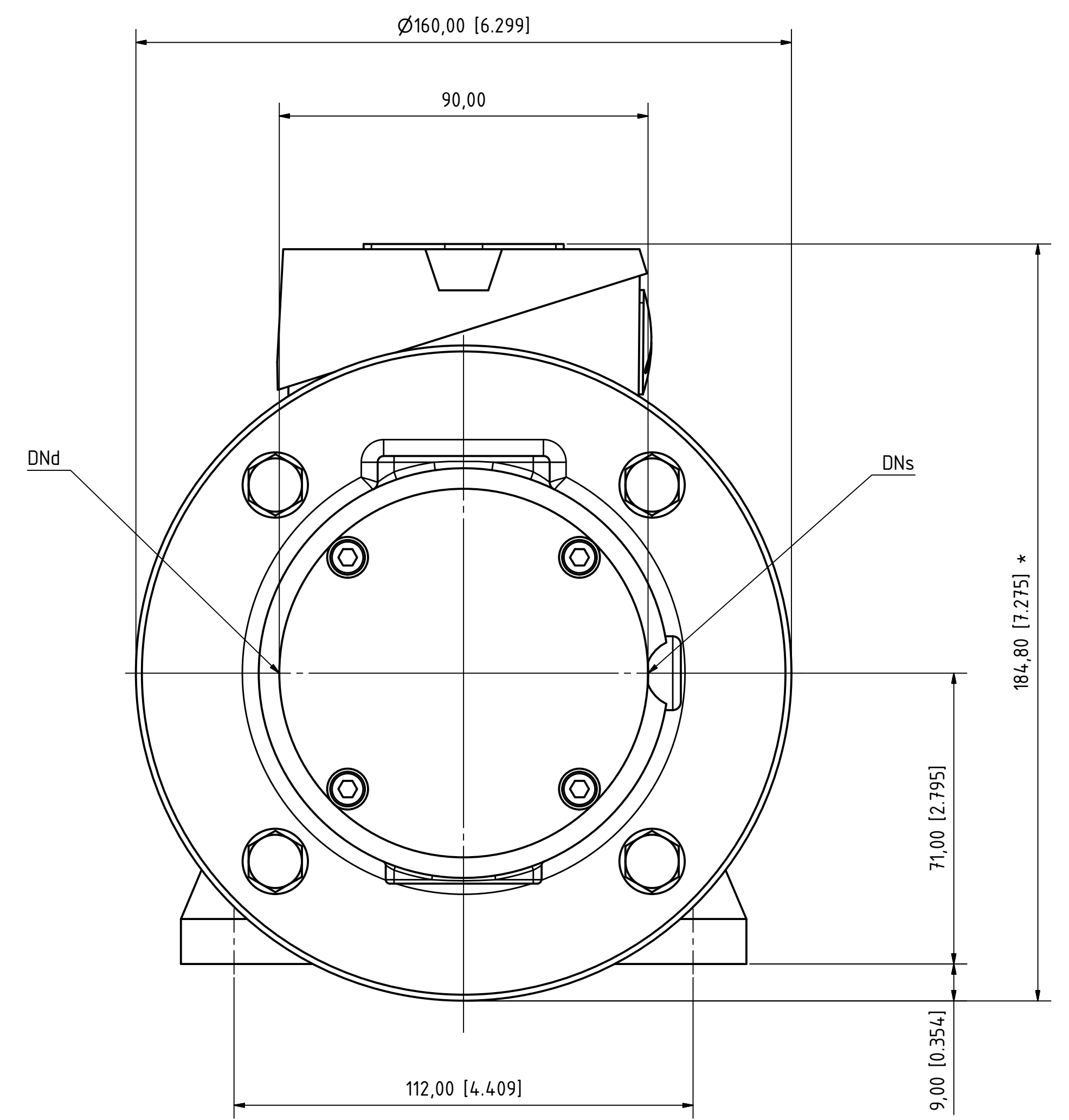
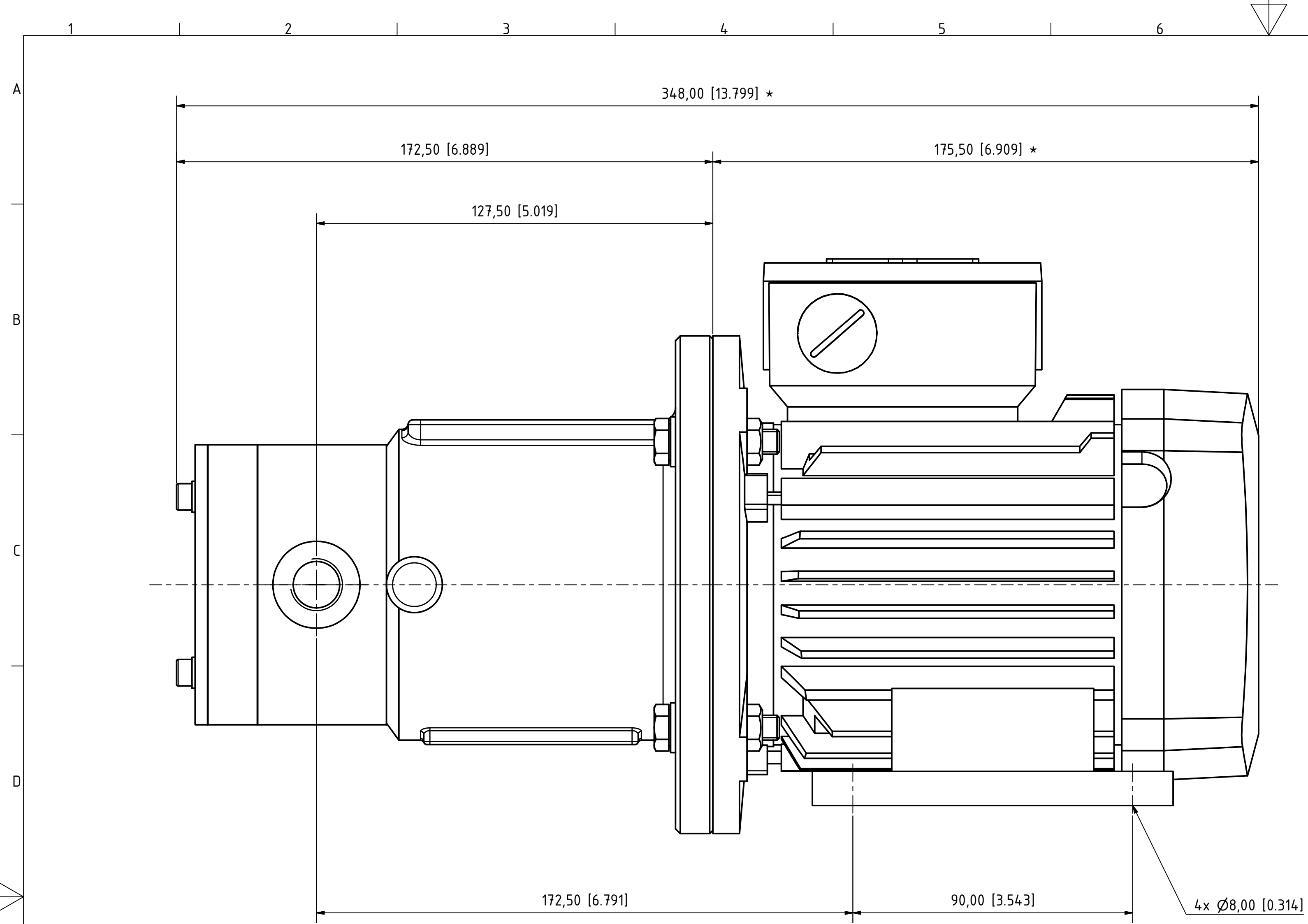
1450 1/min

1750 1/min




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KENNLINIEN / PERFORMANCE CURVES			
Series	VANE-MAG		
Pump Size	MP 514		
Motor Power	0,12kW	0,25kW	0,37kW / 0.5HP
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



- 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: IEC BG71 IM B3/B5, 0,37kW , 1450 1/min

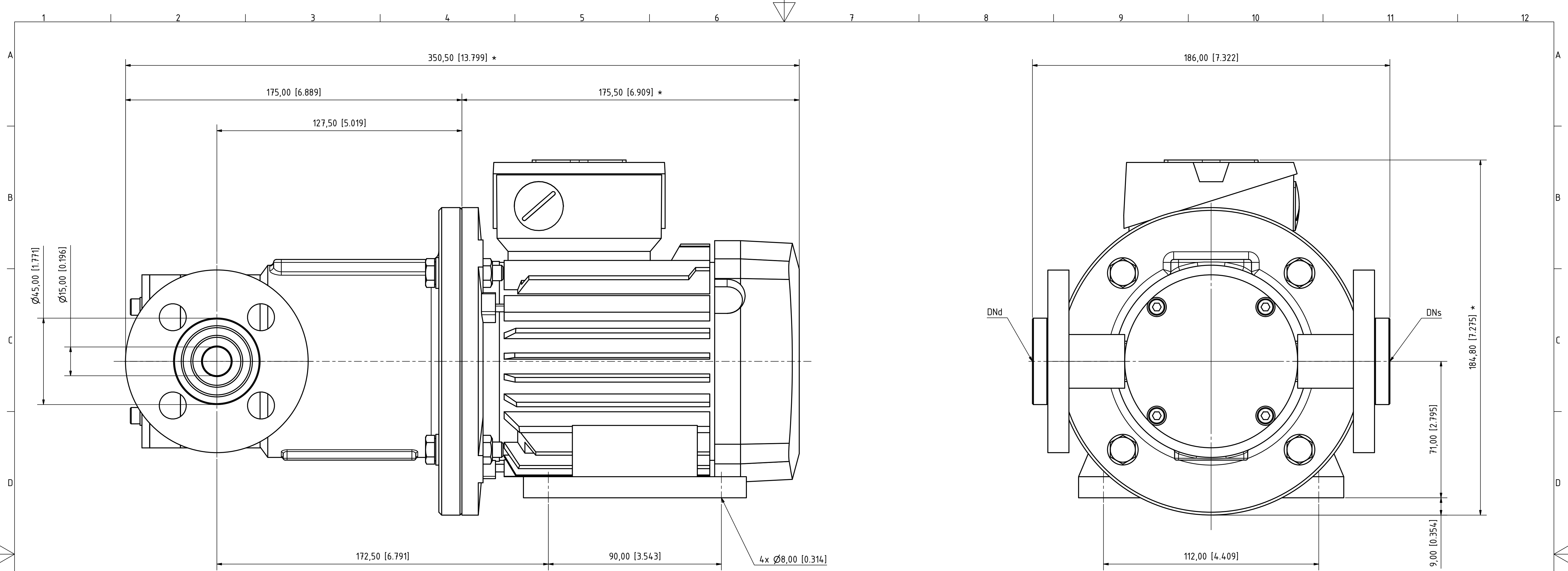
- DRIVE
Three phase TEFC electric motor acc. to IEC Standards
Manufacturer: VEM
Size: IEC71 B3/B5, 0,37kW, 1450 rpm

- ANSCHLÜSSE DN_s/d
G3/8" Innengewinde

- CONNECTIONS DN_s/d
Threaded G3/8" female

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	MARCH PUMPEN GmbH & Co.KG Rathausstraße 2 D-30304 Gießen info@march-pumpen.com www.march-pumpen.com		1:1	VANE-MAG MP 0100 P R IEC71 VEM ABMESSUNGEN DIMENSIONS DPMP-0100-P-R-IEC71-VEM
	Gezeichnet: 01.06.2017 Kontrolliert: Name:	Datum: 01.06.2017 Name: Läch		
Status:	Änderungen:	Datum:	Name:	



- ABMESSUNGEN
mm [Zoll]
* Maß kann bei anderen Motorenfabrikaten abweichen

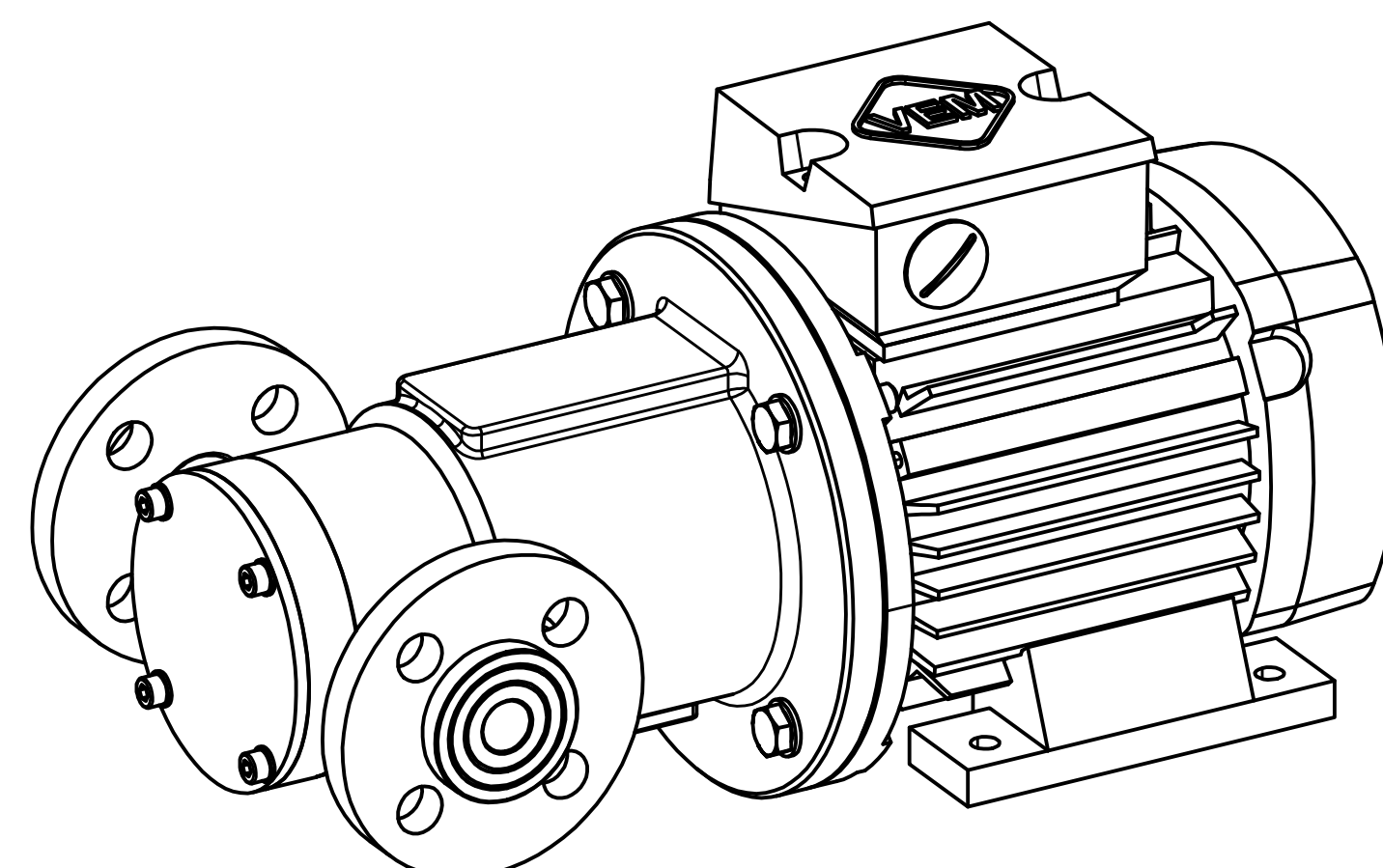
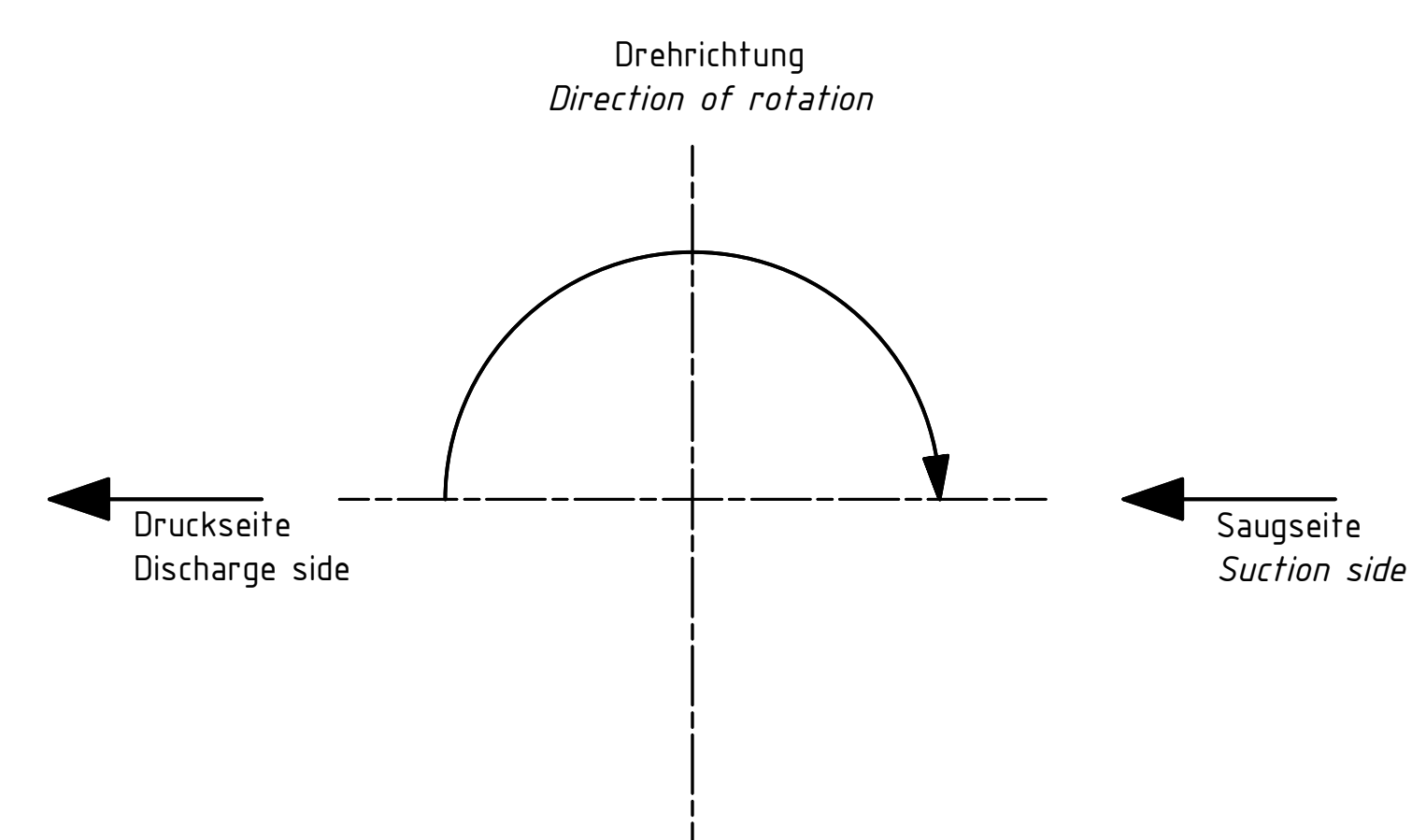
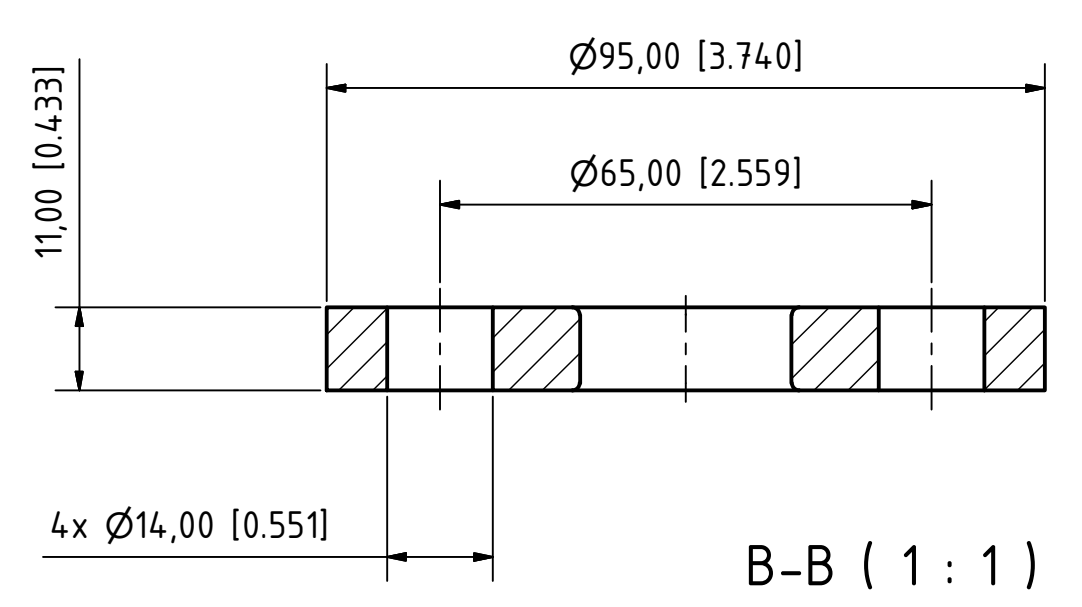
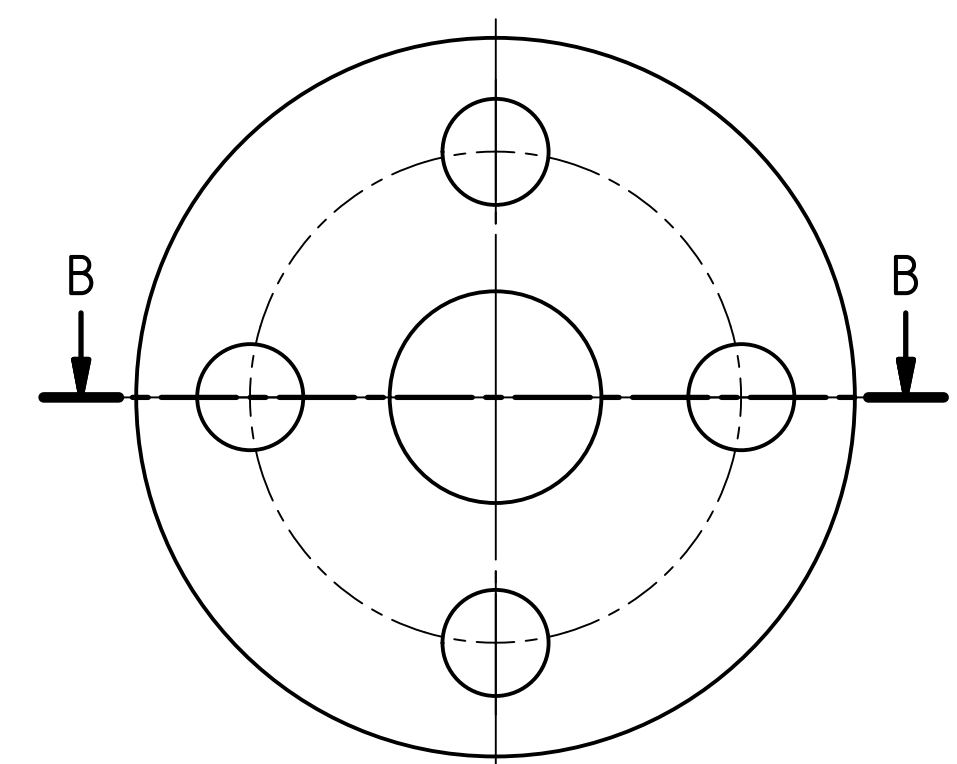
- DIMENSIONS
mm [Inch]
* may change with different motor manufacturer

- ANTRIEB
Drehstrom-Asynchronmotor nach IEC Richtlinien.
Fabrikat: VEM
Größe: IEC BG71 IM B3/B5, 0,37kW , 1450 1/min

- DRIVE
Three phase TEFC electric motor acc. to IEC Standards
Manufacturer: VEM
Size: IEC71 B3/B5, 0,37kW, 1450 rpm

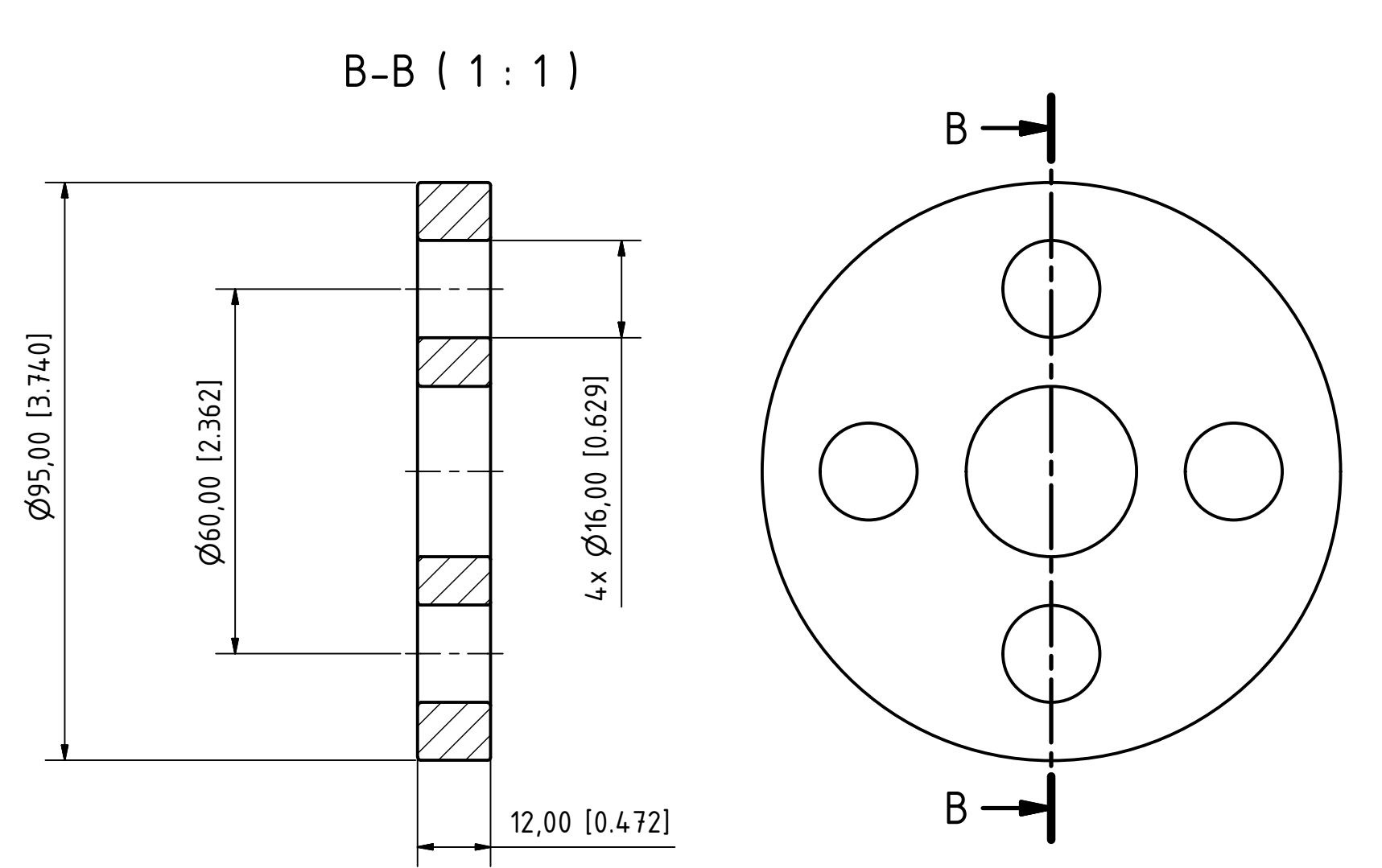
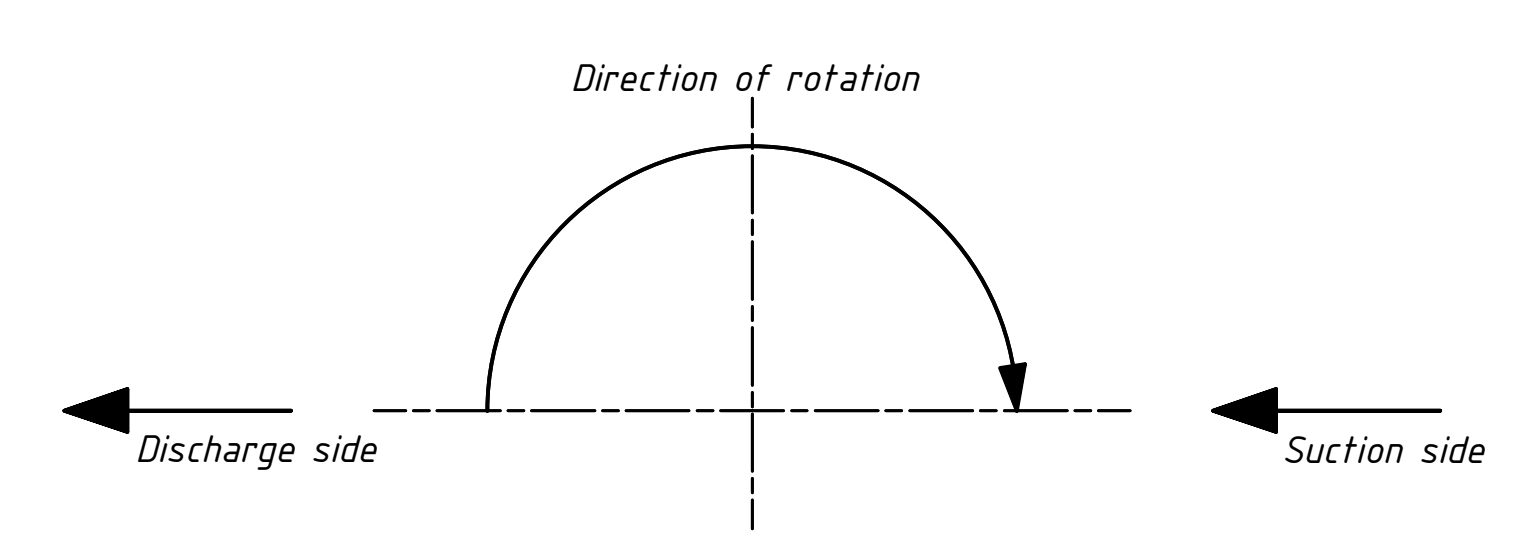
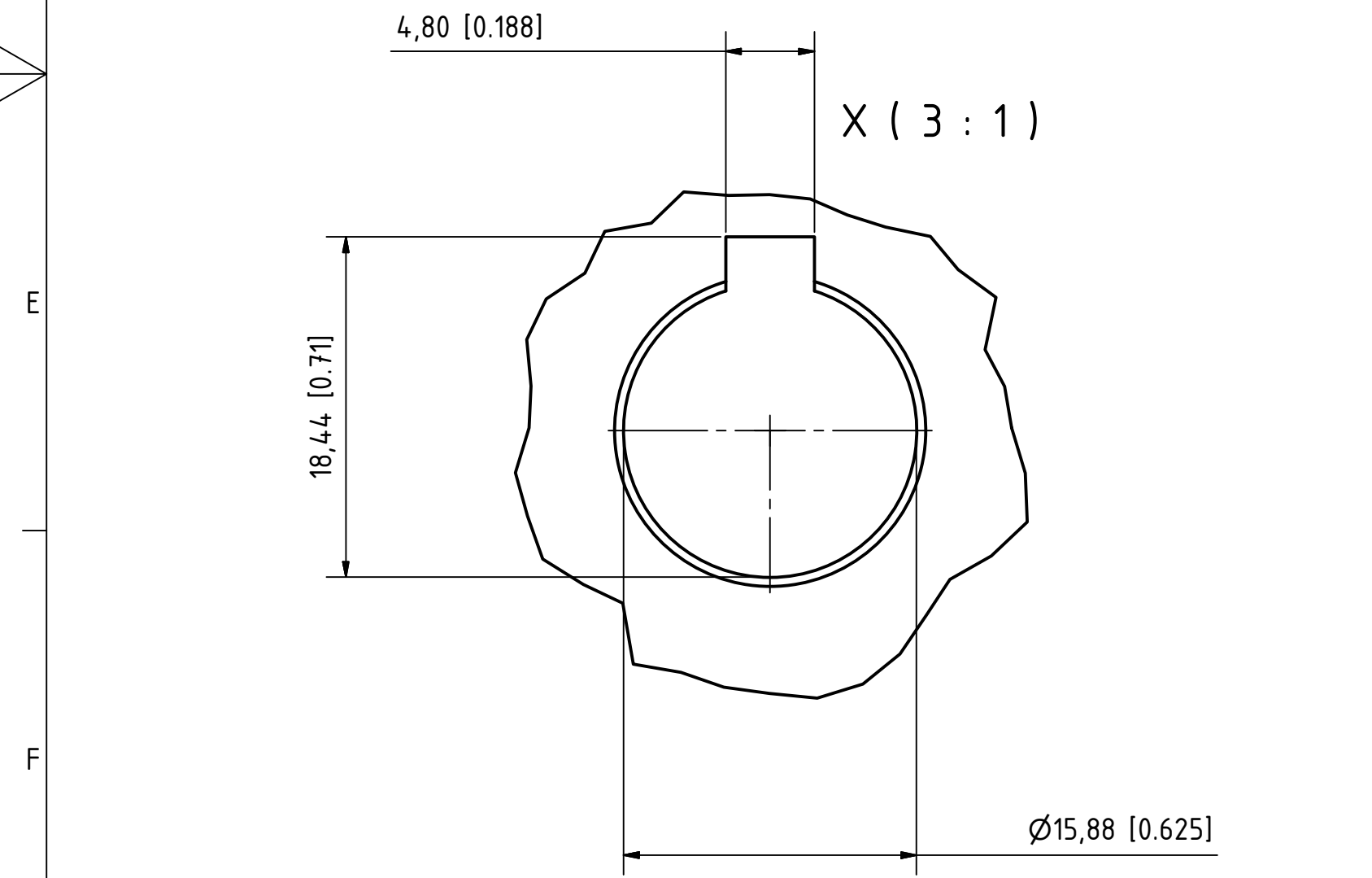
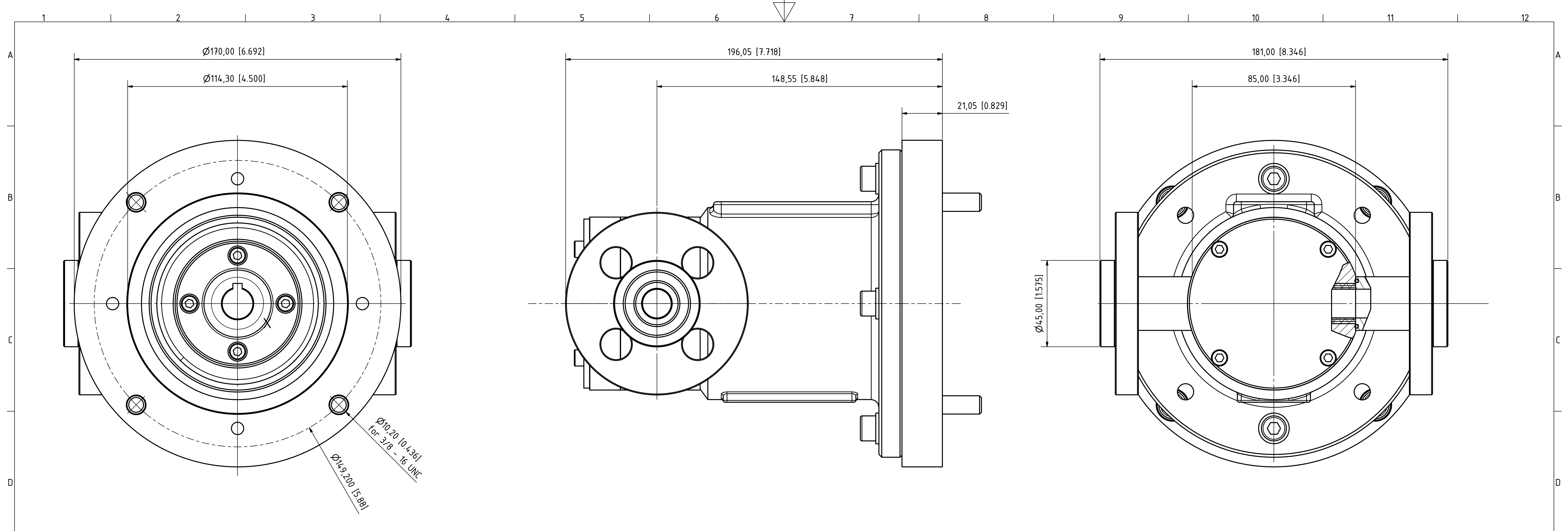
- ANSCHLÜSSE DN_s/d
Losflansch DN15 PN10 - PPST

- CONNECTIONS DN_s/d
Lap Joint Flange DN15 PN10 - PPST



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	MARCH PUMPEN GmbH & Co.KG Rathausstraße 2 52374 Gleditsch		1:1	VANE-MAG MP 0100 P F IEC71 VEM ABMESSUNGEN DIMENSIONS DPMP-0100-P-F-IEC71-VEM
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Gezeichnet Kontrolliert Name	Datum Name	Status Änderungen Datum Name	11	12



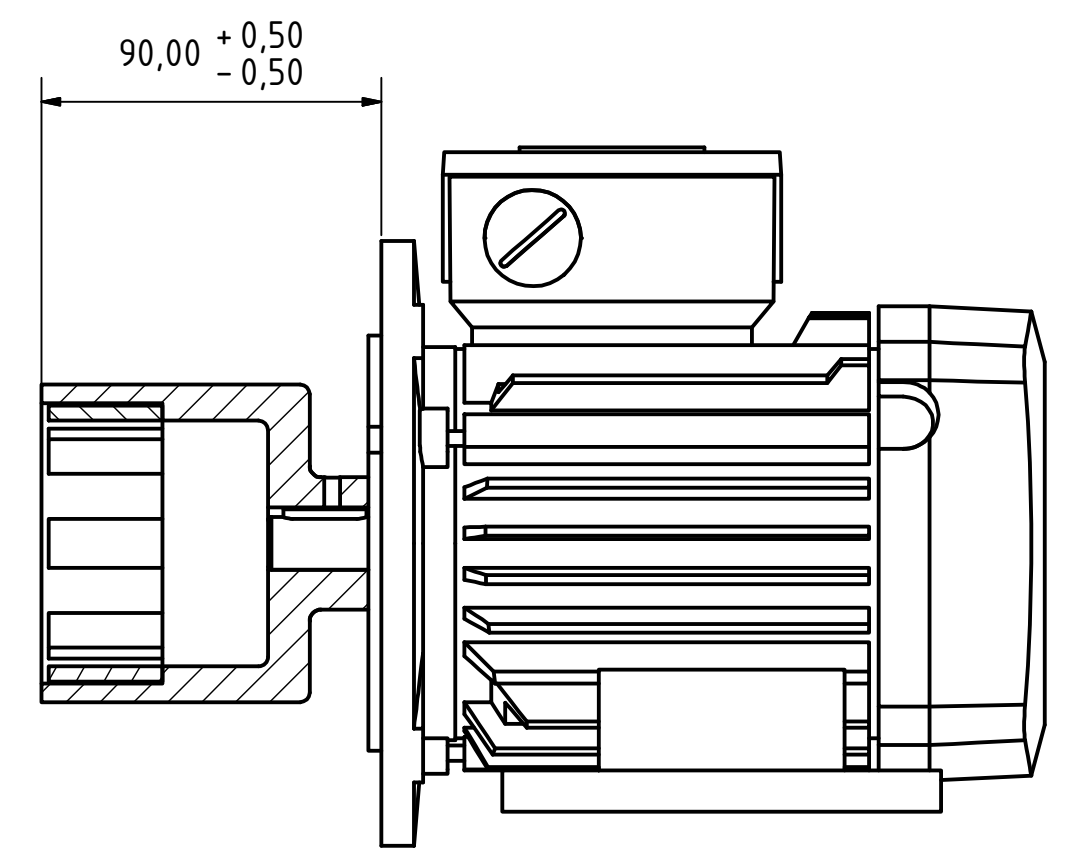
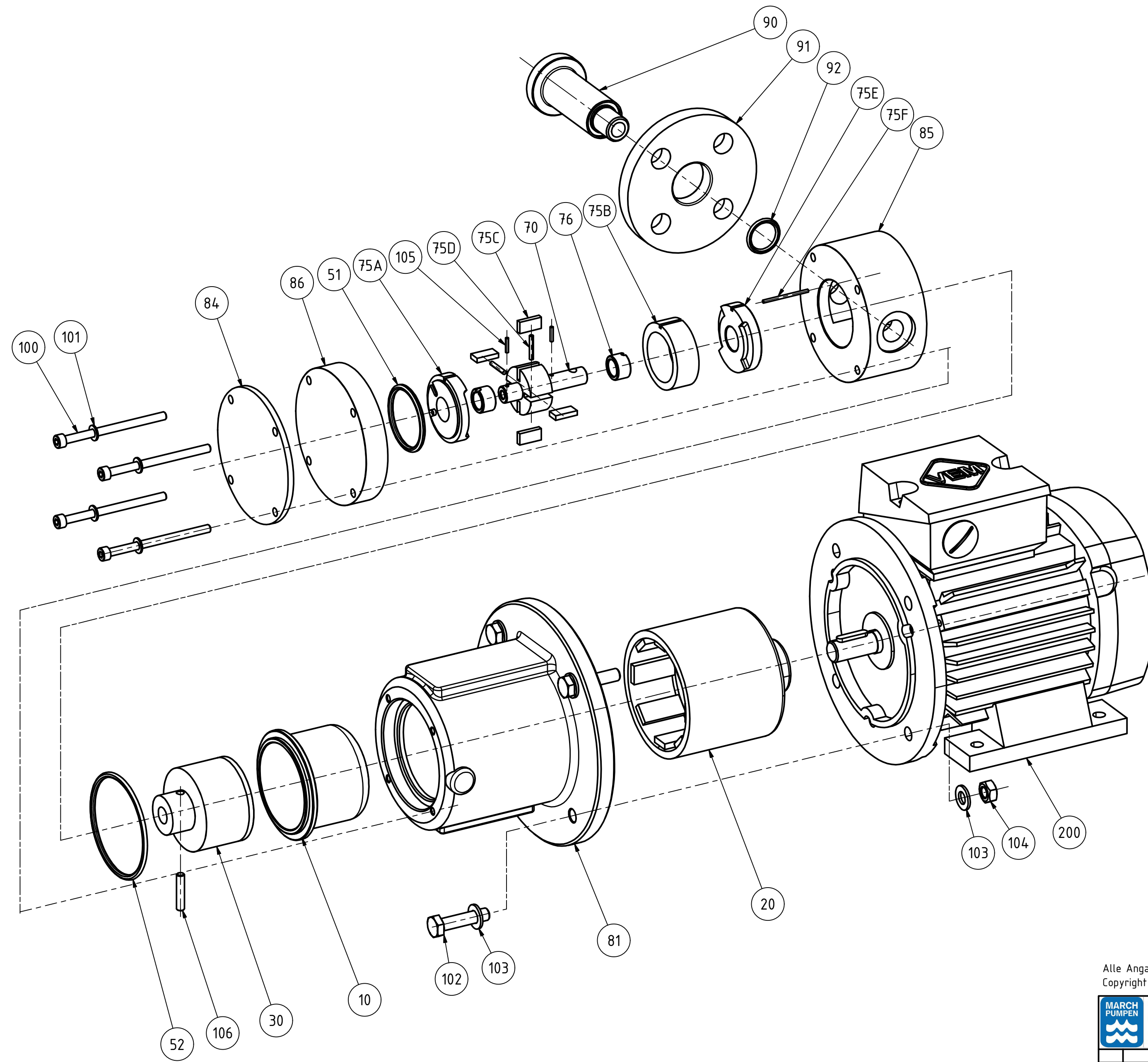
- DIMENSIONS
mm [Inch]

- DRIVE
Pump Bracket and Drive Magnet
are adapted for NEMA 56C electric motors


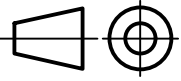
- CONNECTIONS
Lap Joint Flanges acc. to ASME B 16.5 / 1/2"
or
1/2" NPT female threads

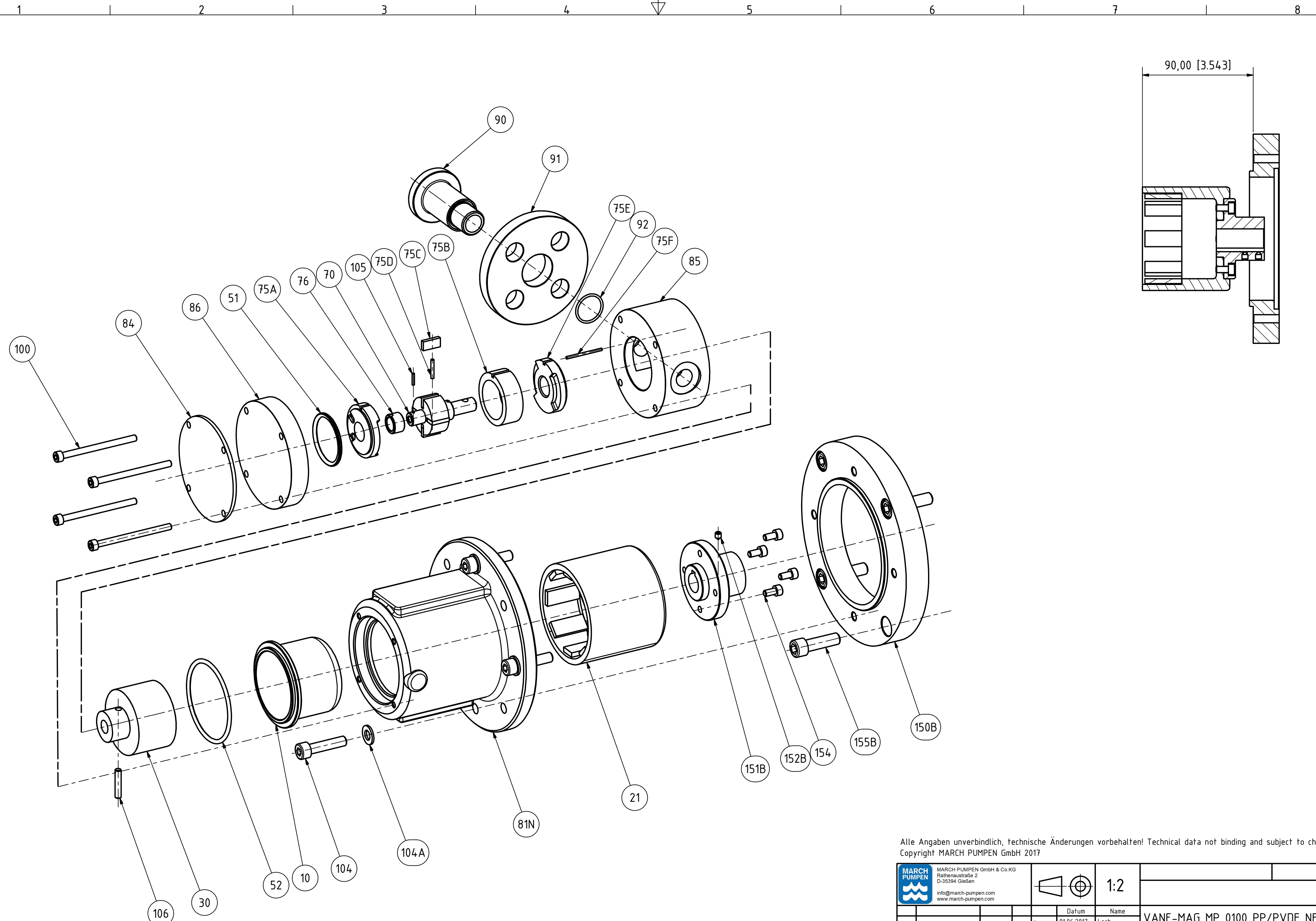
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MARCH PUMPEN Rathausstraße 2 D-30394 Gießen info@march-pumpen.com www.march-pumpen.com	1:1	Name		VANE-MAG MP 1"Range (114-514)
		Datum		26.04.2017
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Kontrolliert		Name		
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Datum		Name		
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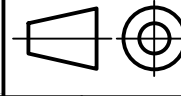


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 MARCH PUMPEN GmbH & Co.KG Rätthausstraße 2 D-35394 Gießen info@march-pumpen.com www.march-pumpen.com		 1:2	
	Datum	Name	VANE-MAG MP 0100 PP/PVDF BG71 B35 EXPLOSIONSDARSTELLUNG EXPLODED VIEW
	Gezeichnet	Lach	
	Kontrolliert		
	Norm		
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Status	Änderungen	Datum	Name



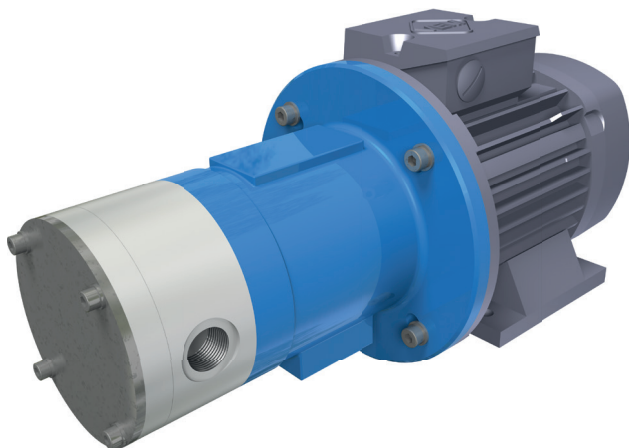
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		Datum	Name
		Gezeichnet	01.06.2017 Lach
		Kontrolliert	
		Norm	
			VANE-MAG MP 0100 PP/PVDF NEMA56C EXPLOSIONSDARSTELLUNG EXPLODED VIEW
			EXP_MP-0100-P-FA-NEMA56C
Status	Änderungen	Datum	Name

MAGNETICALLY COUPLED ROTARY SLIDING VANE PUMP

Series VANE-MAG MP

MP 614 - 814 - 1014 (MP II° Range)



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 „SiO ₂ coated Graphite“
Bearings:	SiC

CONNECTIONS

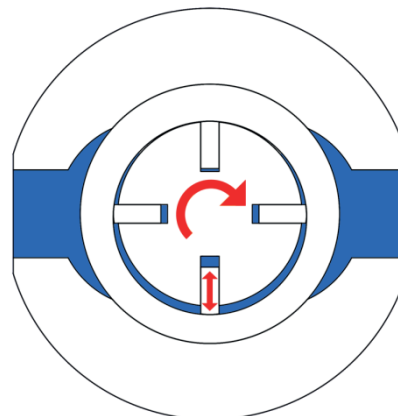
Threads:	G1/2" female, 1/2" NPT female
Lap Joint Flanges:	DN20 PN10, 1/2" ANSI

DESIGN FEATURES

- Rotating positive displacement pump
- 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 capacity flow rates
- Metering capable

PRODUCT DESCRIPTION

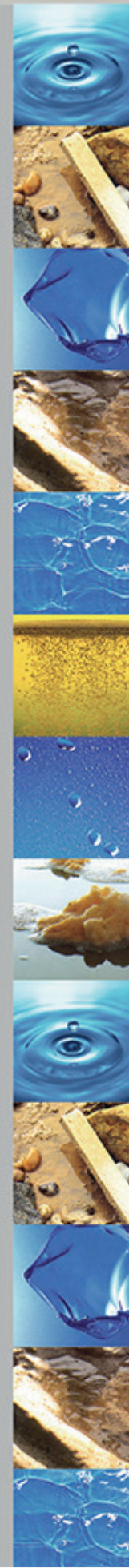
MARCH Series: VANE-MAG® MP pumps are rotary positive displacement pumps, magnetically coupled and made of non-metallic materials. Characteristic wise, rotary sliding vane pumps generate low volumetric flows with middle to high discharge pressures and approximately no pulsation. The operating principle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



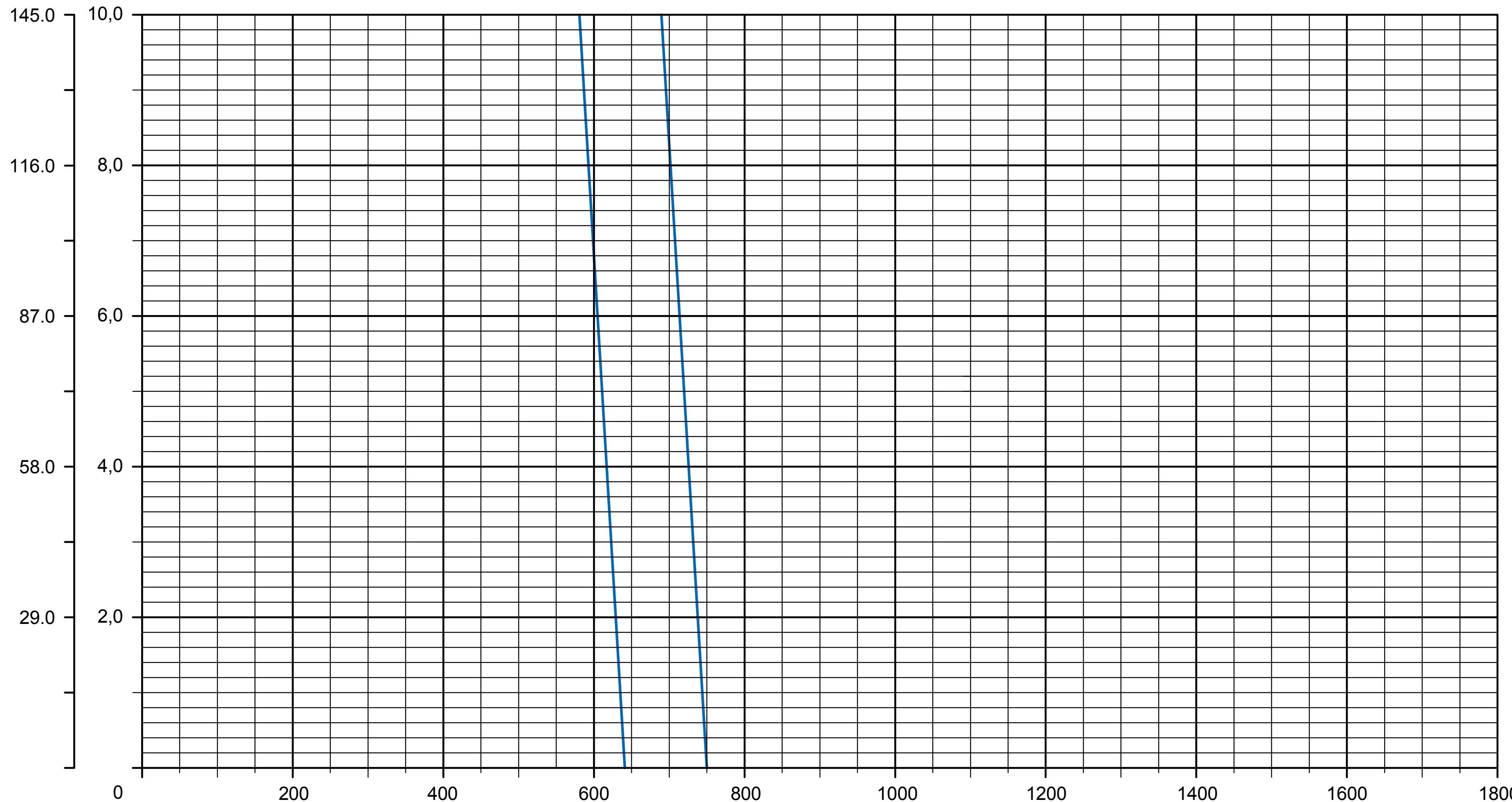
The pump housing is made of corrosion resistant solid block plastics like PP or PVDF. The motor power is transmitted by a frictional connection to the hydraulic part of the pumps by strong Neodymium-Permanent-Magnets. So the pump is able to work without any shaft seals, which guarantee a safe and maintenance-free 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]



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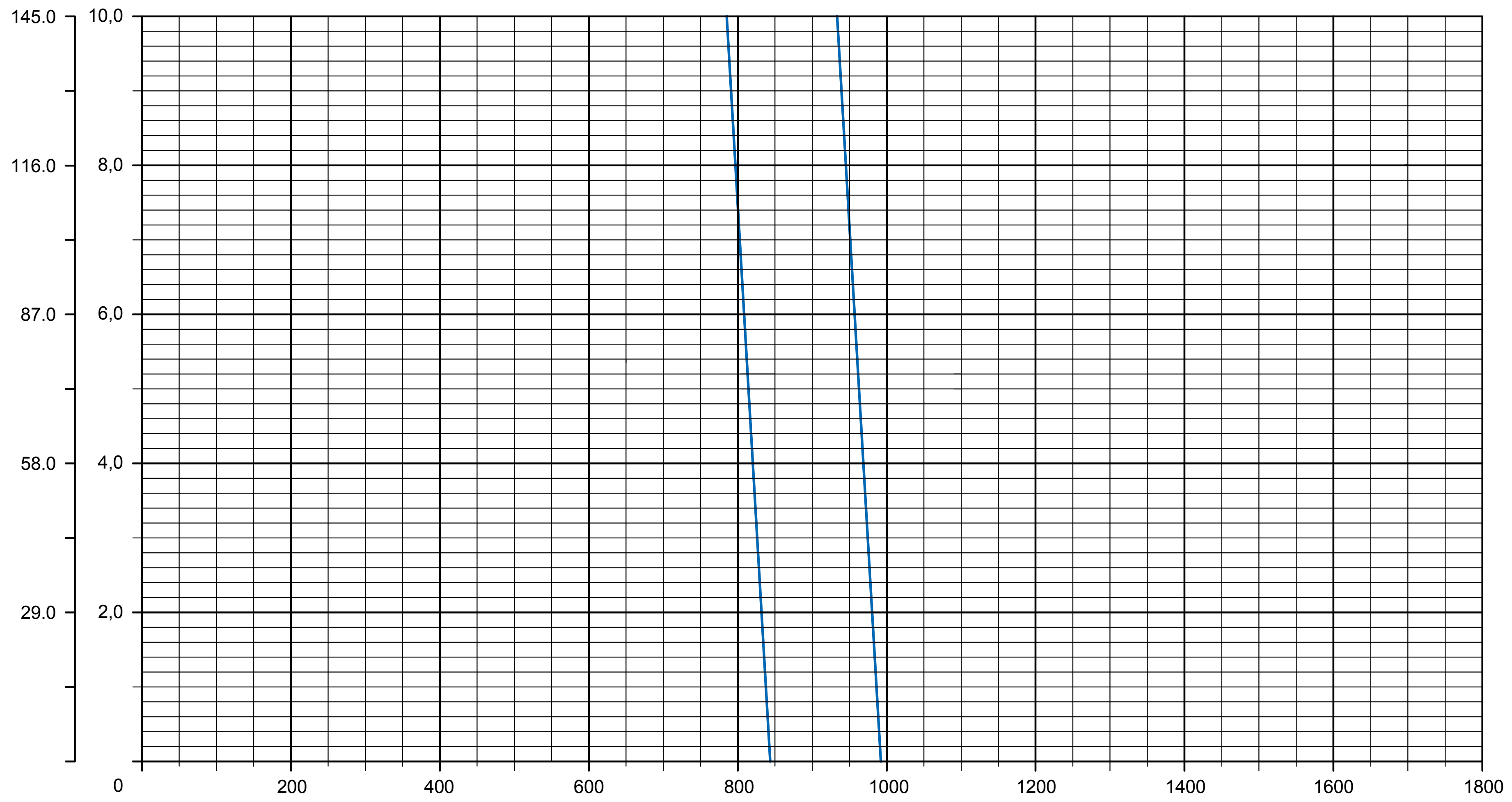
www.march-pumpen.com
info@march-pumpen.com

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



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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

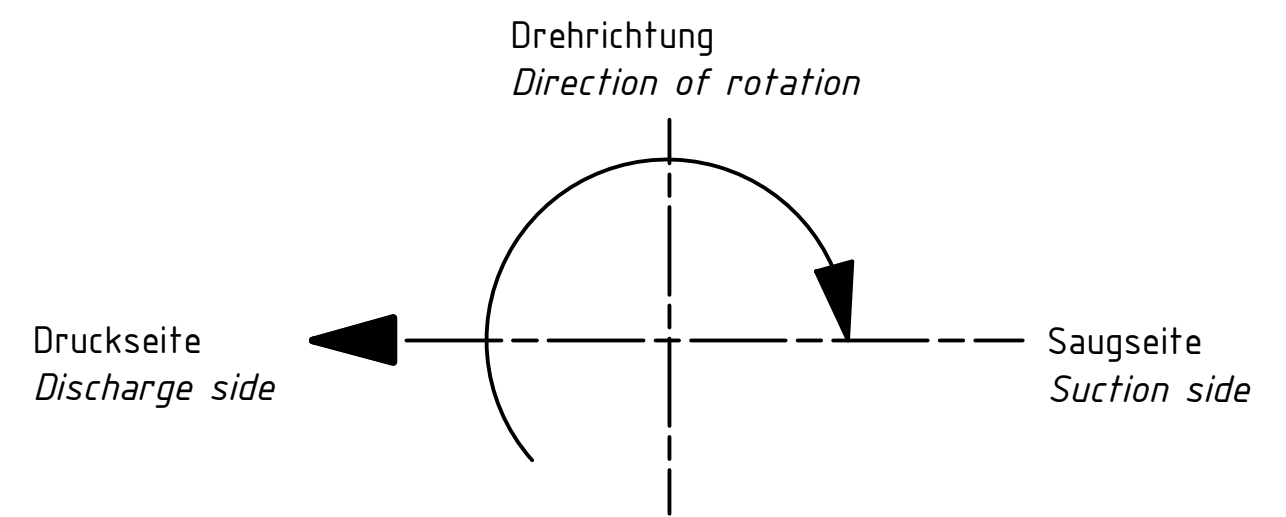
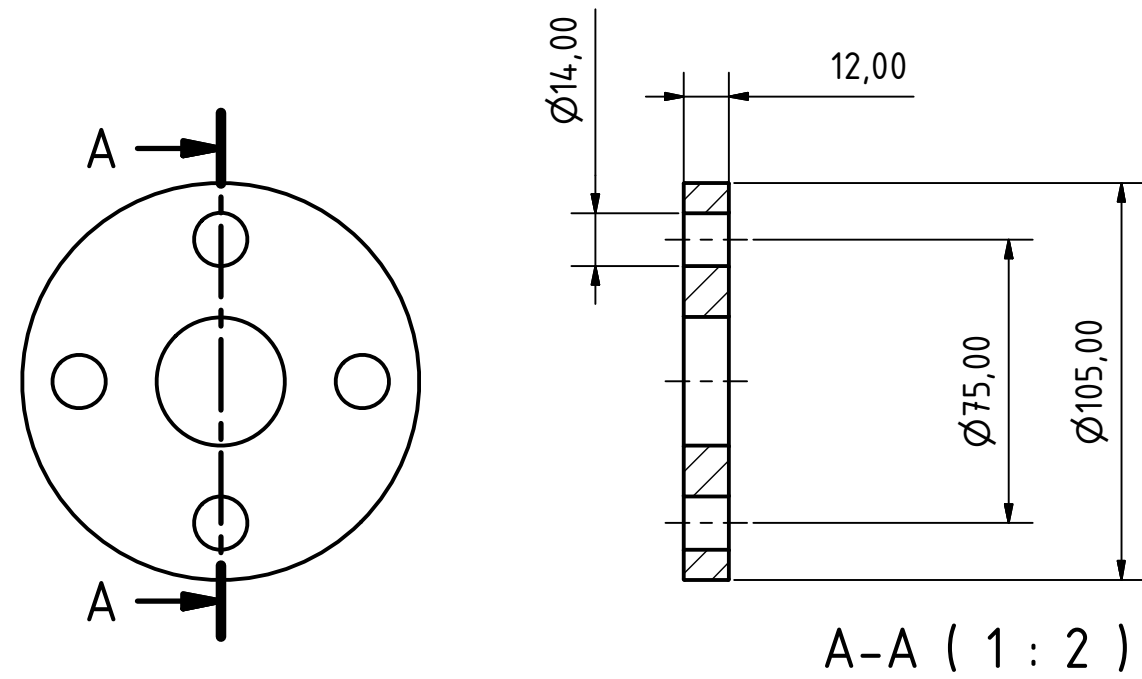
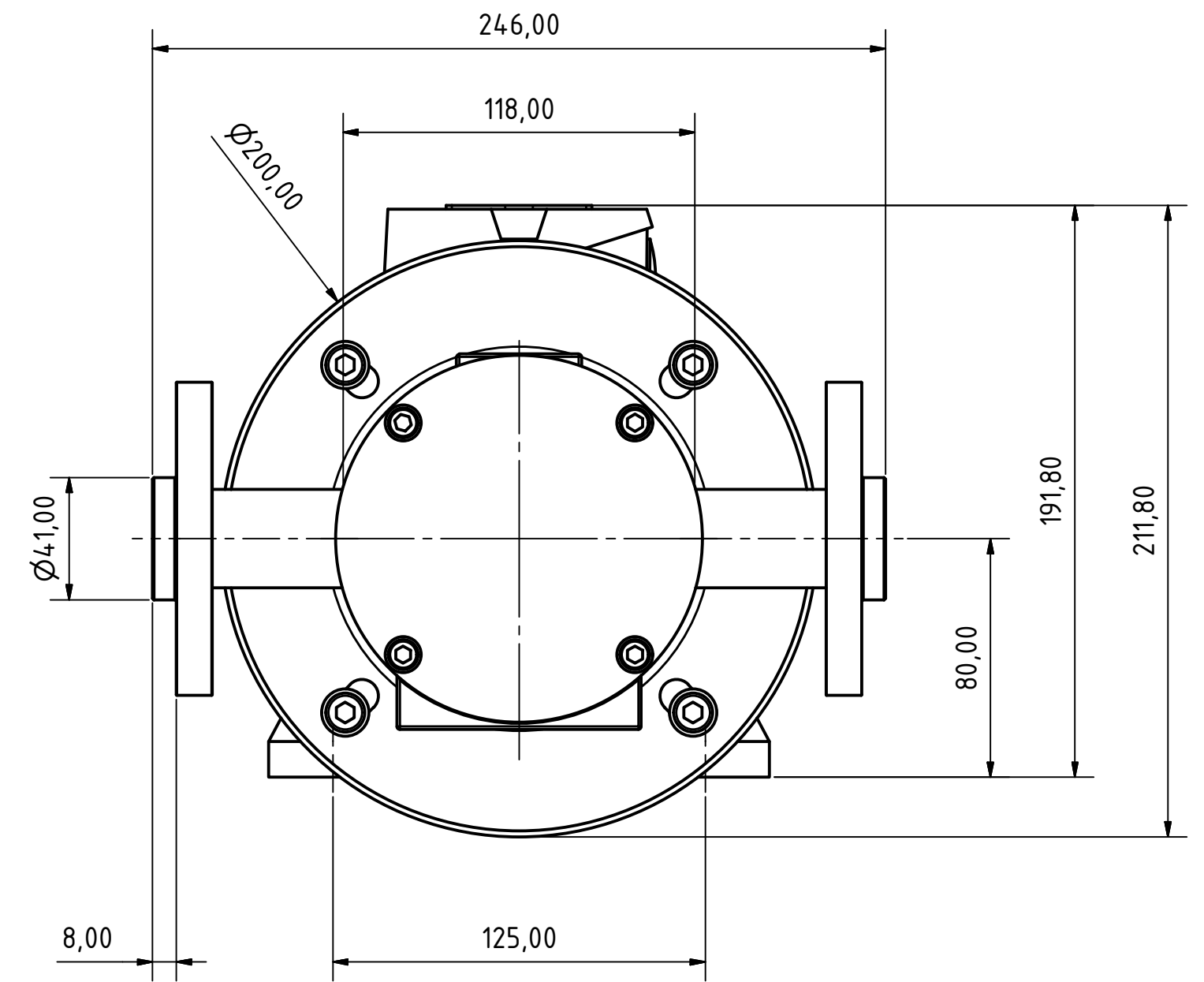
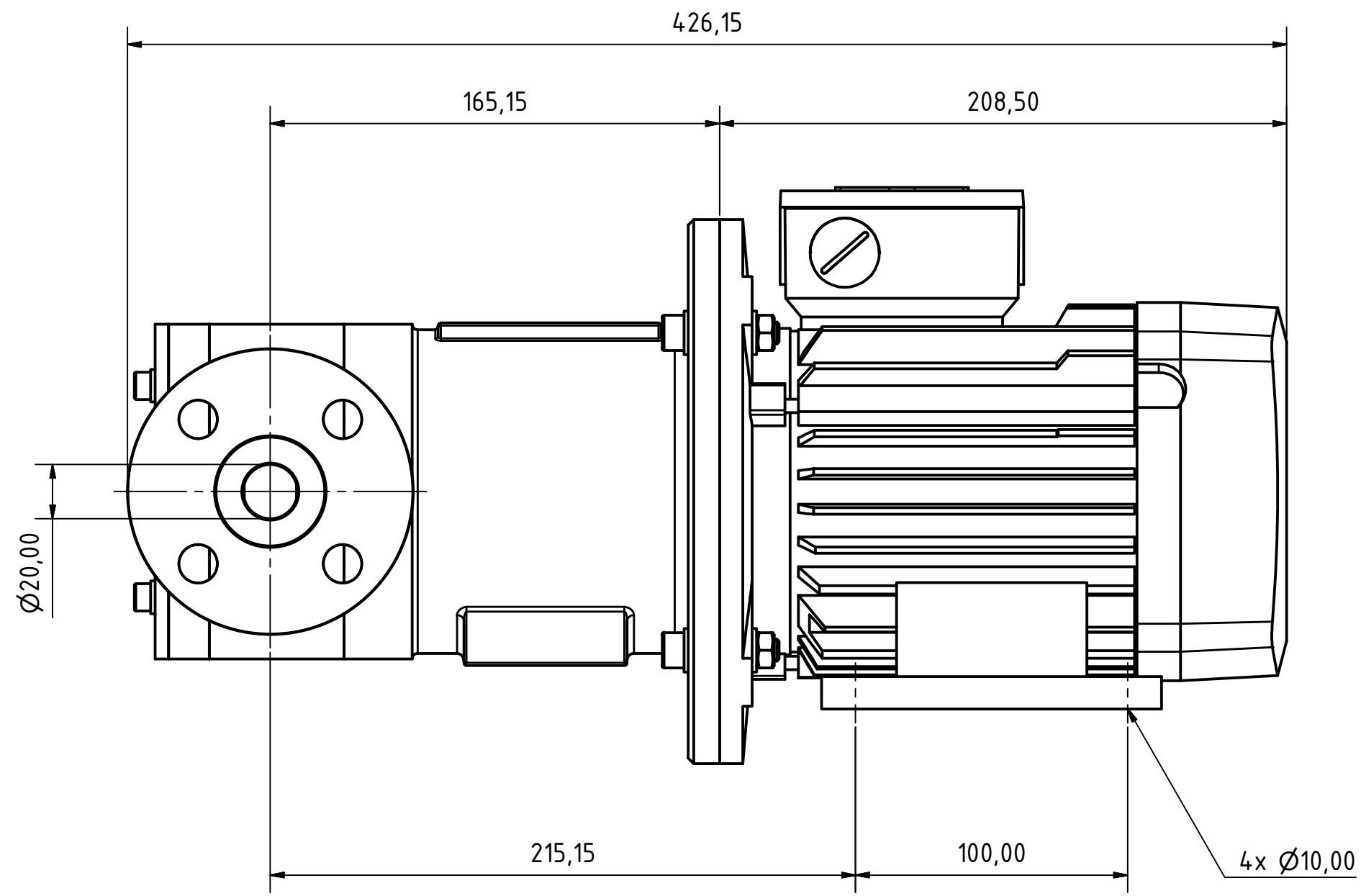


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D-35394 Gießen

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info@march-pumpen.com

KENNLINIEN / PERFORMANCE CURVES

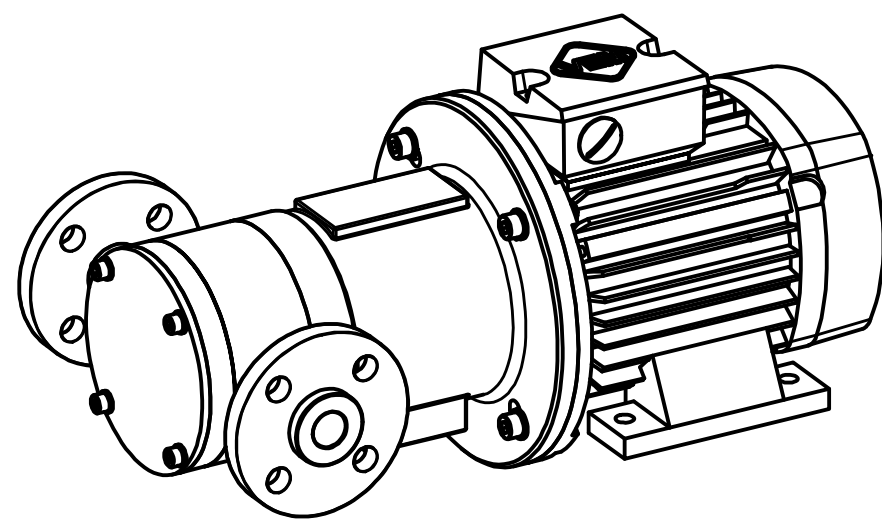
Series	VANE-MAG		
Pump Size	VANE-MAG MP 1014		
Motor Power	0,75kW / 1.0HP		
Speed	1450 / 1750 1/min		
Fluid Viscosity	1 mm ² /s	Fluid Density	1 kg/dm ³



DIMENSIONS
mm [inch]

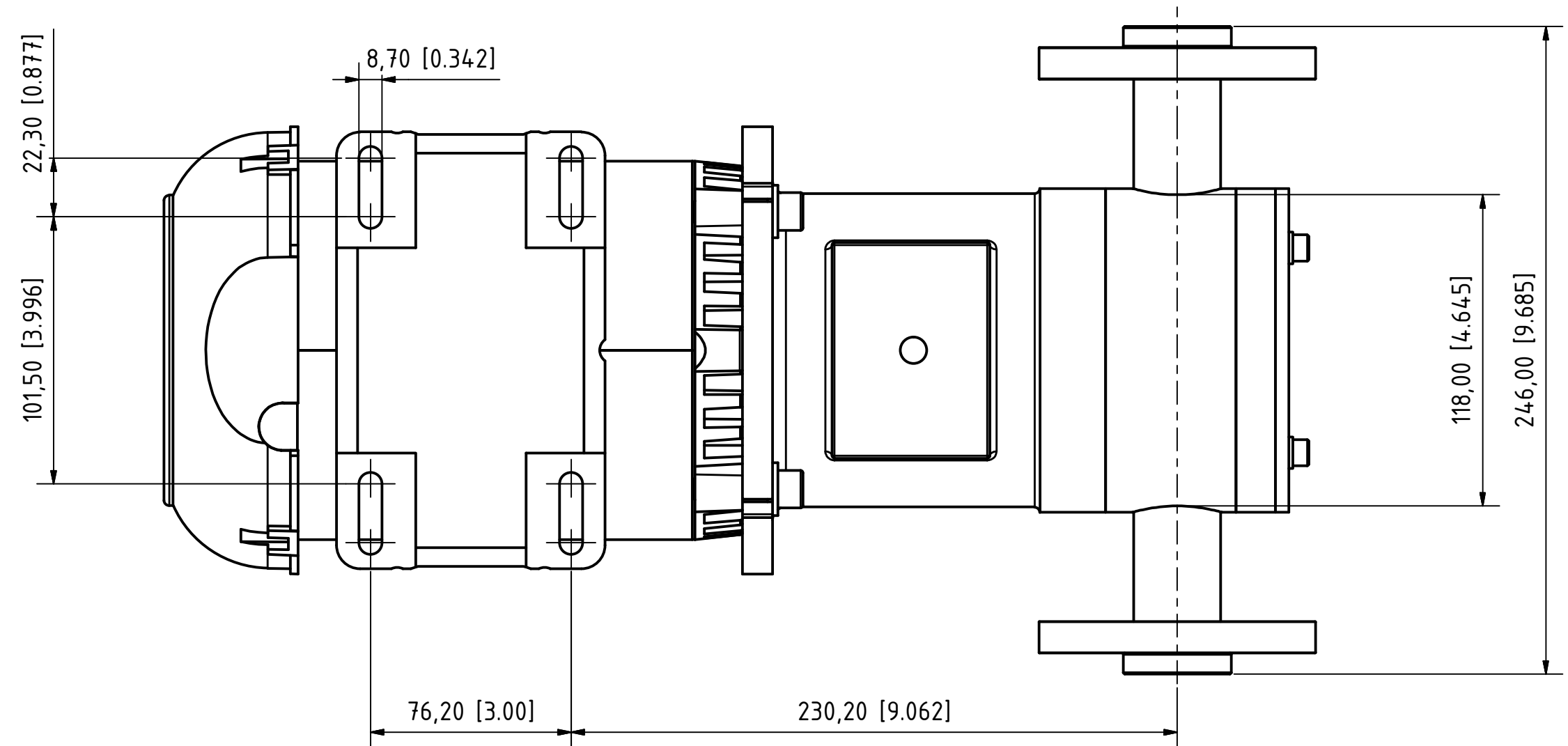
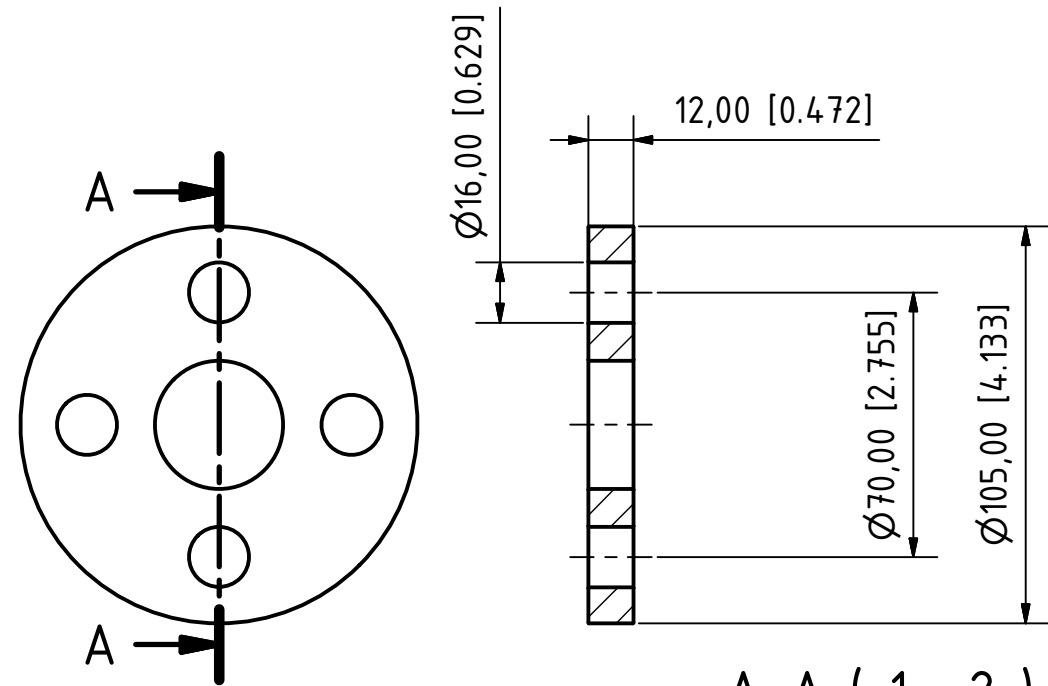
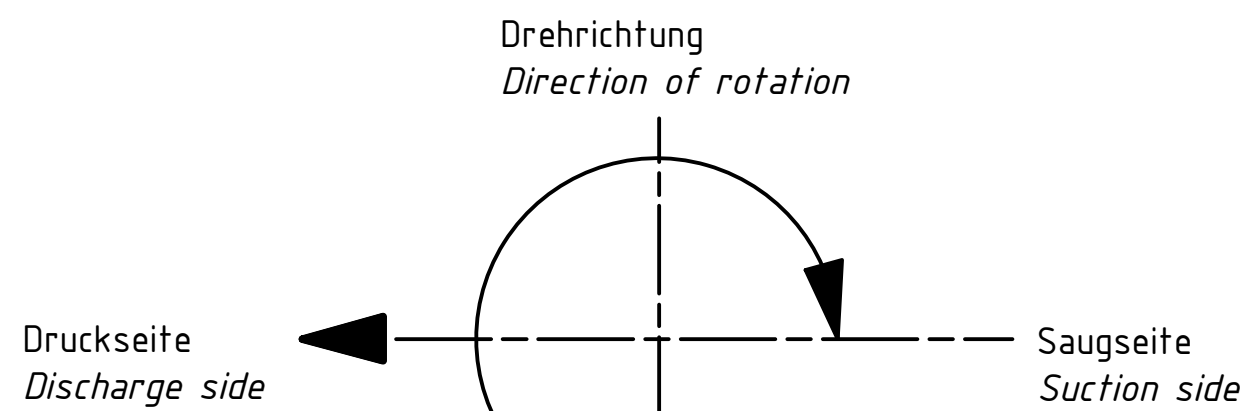
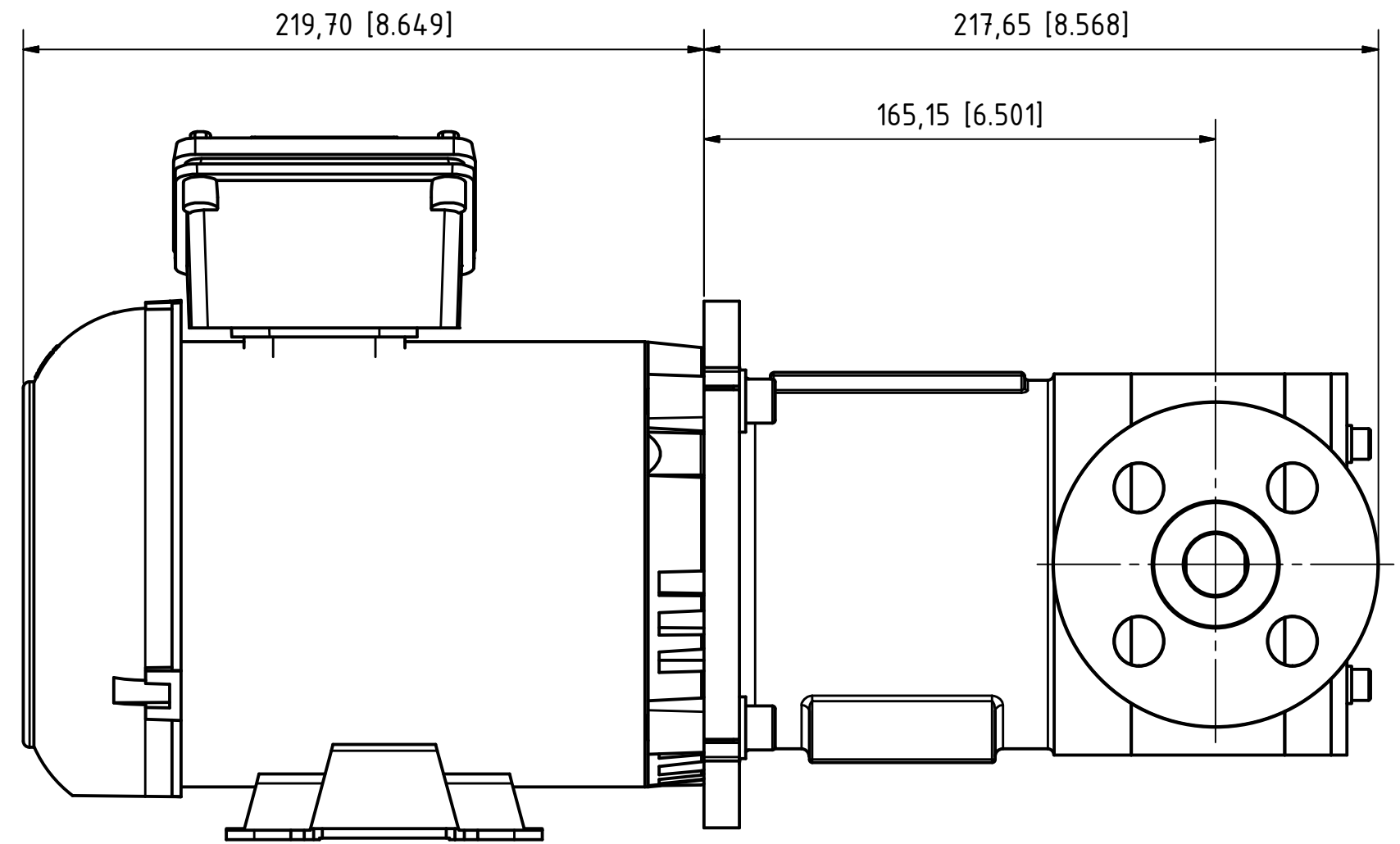
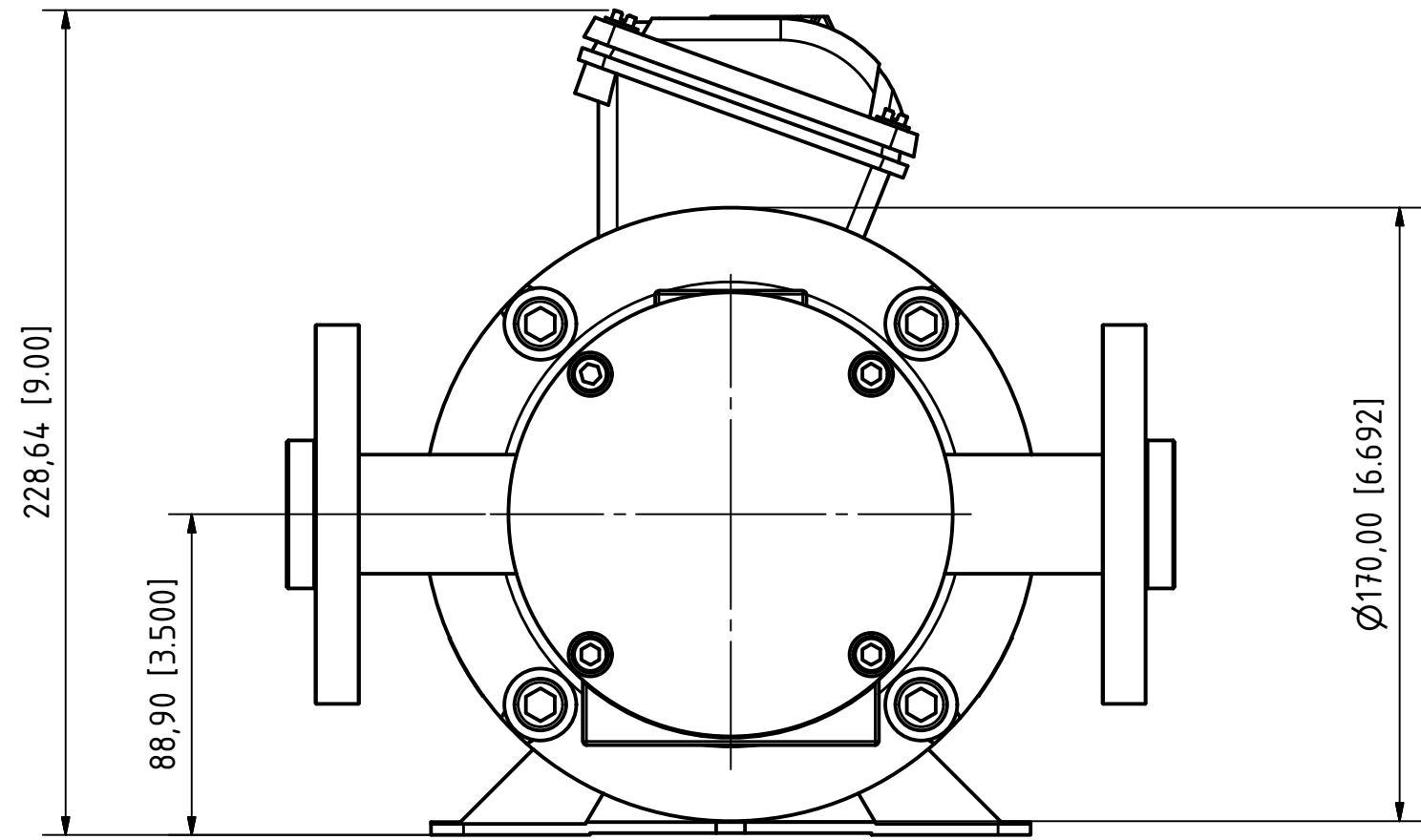
DRIVE
TEFC three phase asynchronous squirrel cage electric motor
acc. to IEC Standards
Manufacturer: VEM
Size: IEC80 B35, 0,55 – 0,75 kW, 1450 rpm

CONNECTIONS
Lap Joint Flange DN20 PN10
or
G3/4" female



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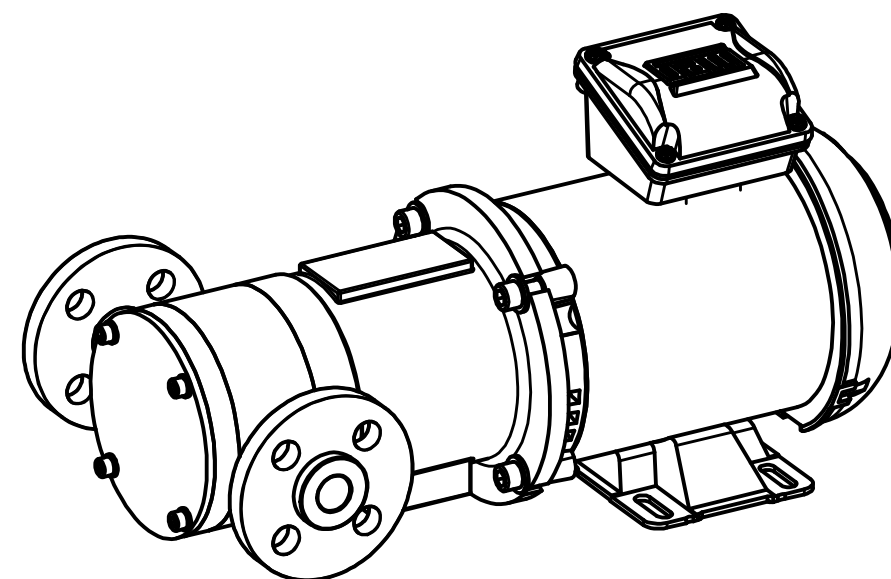
		MARCH PUMPEN GmbH Ralthenastraße 2 D-35394 Gießen Tel.: (+49) (0)641-686806-0 Fax.: (+49) (0)641-686806-60		1:2		Pump weight: 15kg	
		Gezeichnet: 09.11.2018 Name: Lach		VANE-MAG MP 2G Range			
		Kontrolliert: Norm:		PPF - IEC80			
				MP2G_PPFA_NEMA			
						1 A2	
Status	Änderungen	Datum	Name				



DIMENSIONS
mm [inch]

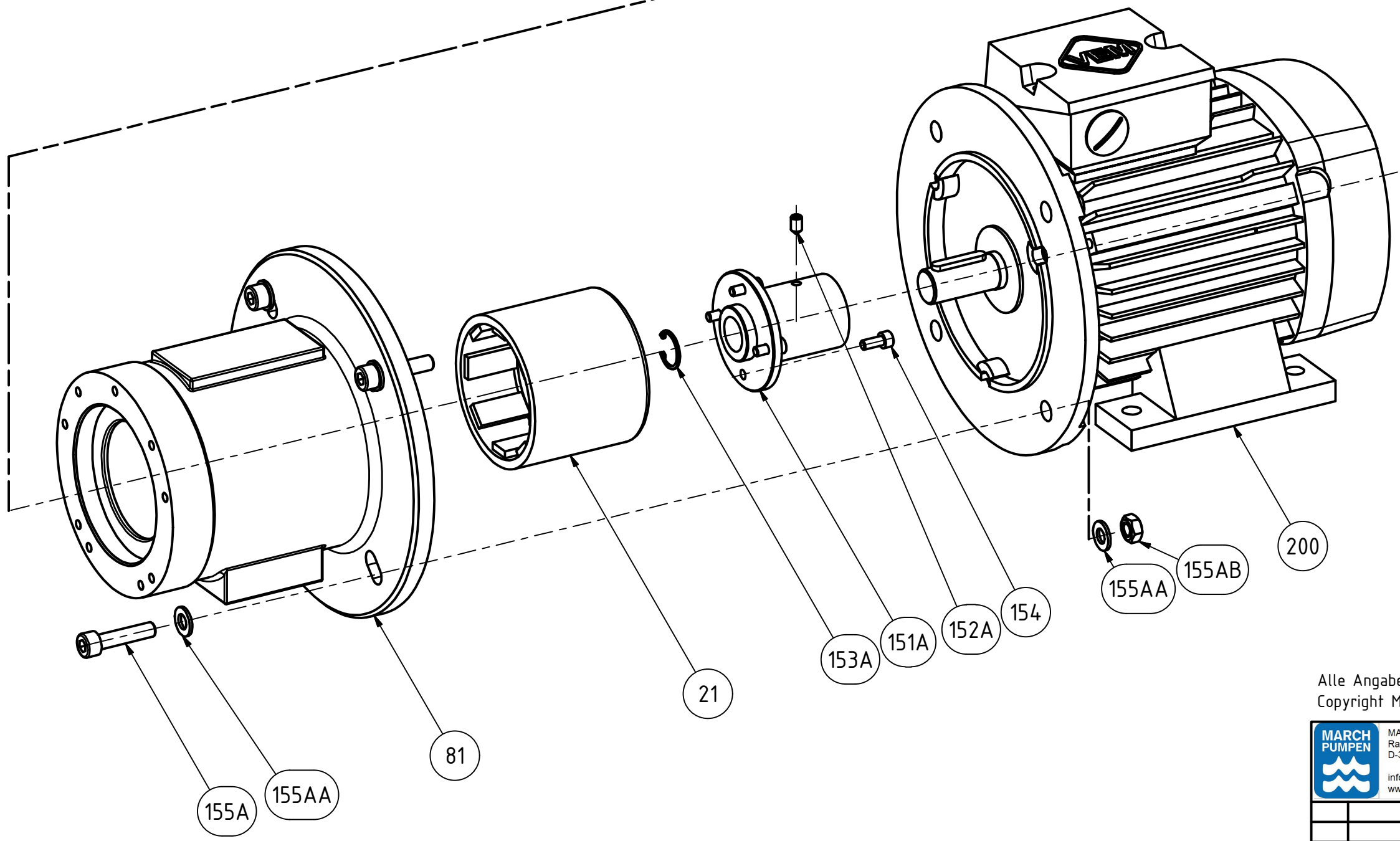
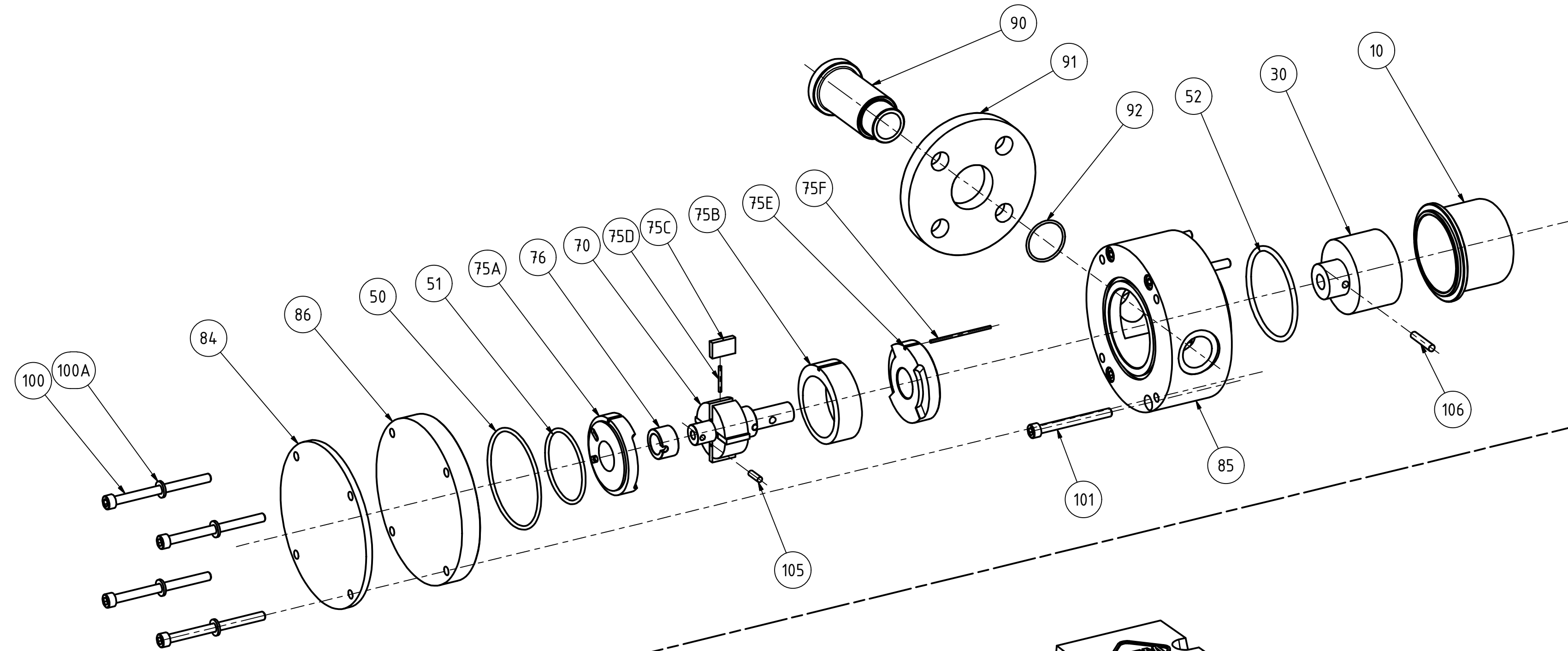
DRIVE
TEFC three phase asynchronous squirrel cage electric motor
acc. to NEMA Standards
Manufacturer: WEG
Size: 56C-Face, 0.5 - 1.0 HP, 1750 rpm
Pump Bracket and Drive Magnet adapted to NEMA 56C-Face

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


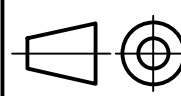


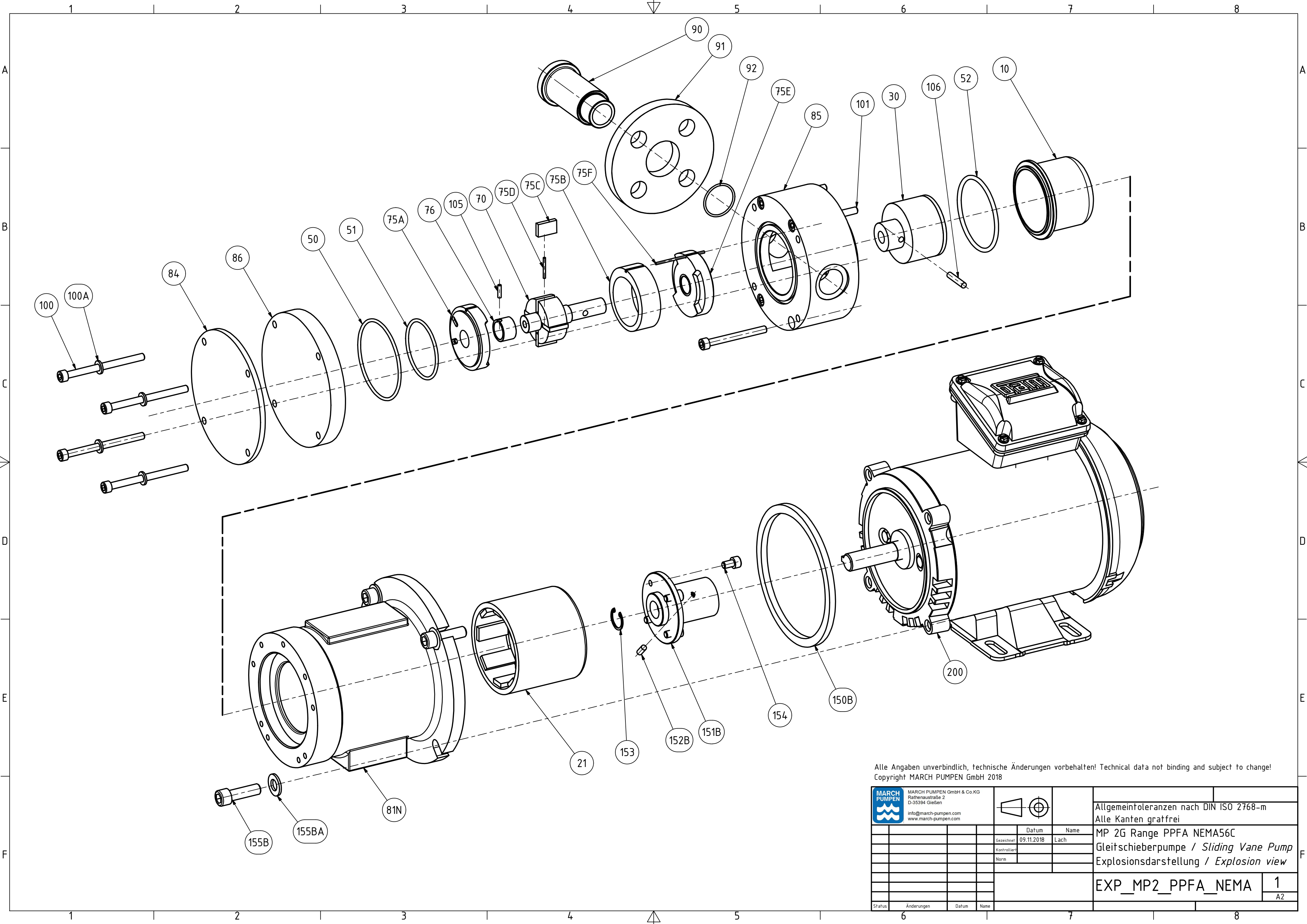
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	MARCH PUMPEN GmbH Rätthausstraße 2 D-35394 Gießen Tel.: (+49) (0)641-686806-0 Fax.: (+49) (0)641-686806-60			1:2	Pump weight: 15kg	
	Gezeichnet	Datum			Name	VANE-MAG MP 2G Range
	Kontrolliert	09.11.2018	Lach	PPF ANSI - NEMA56C		
	Norm			MP2G_PPFA_NEMA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


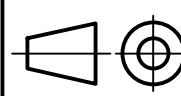


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 MARCH PUMPEN GmbH & Co.KG Rölltenstraße 2 D-35394 Gießen info@march-pumpen.com www.march-pumpen.com		Allgemeintoleranzen nach DIN ISO 2768-m	
		Alle Kanten gratfrei	
		Datum	Name
		Gezeichnet	29.11.2018 Lach
		Kontrolliert	
		Norm	
EXP_MP2GR_PPF_IEC80			1
			A2
Status	Änderungen	Datum	Name



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