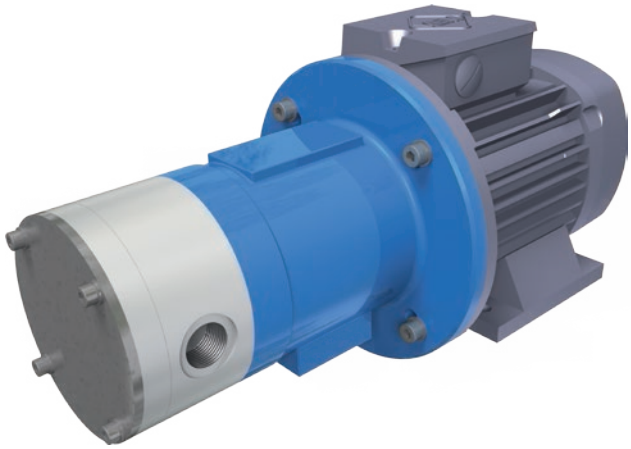
MAGNETICALLY COUPLED ROTARY SLIDING VANE PUMP

Series VANE-MAG MP

MP 614 - 814 - 1014



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/dm³

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

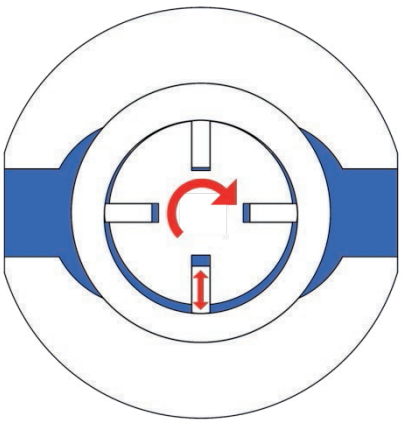
Threads:	G3/4” female, 3/4" NPT female
Lap Joint Flanges:	DN20 PN10, 3/4" ANSI

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

PRODUCT DESCRIPTION

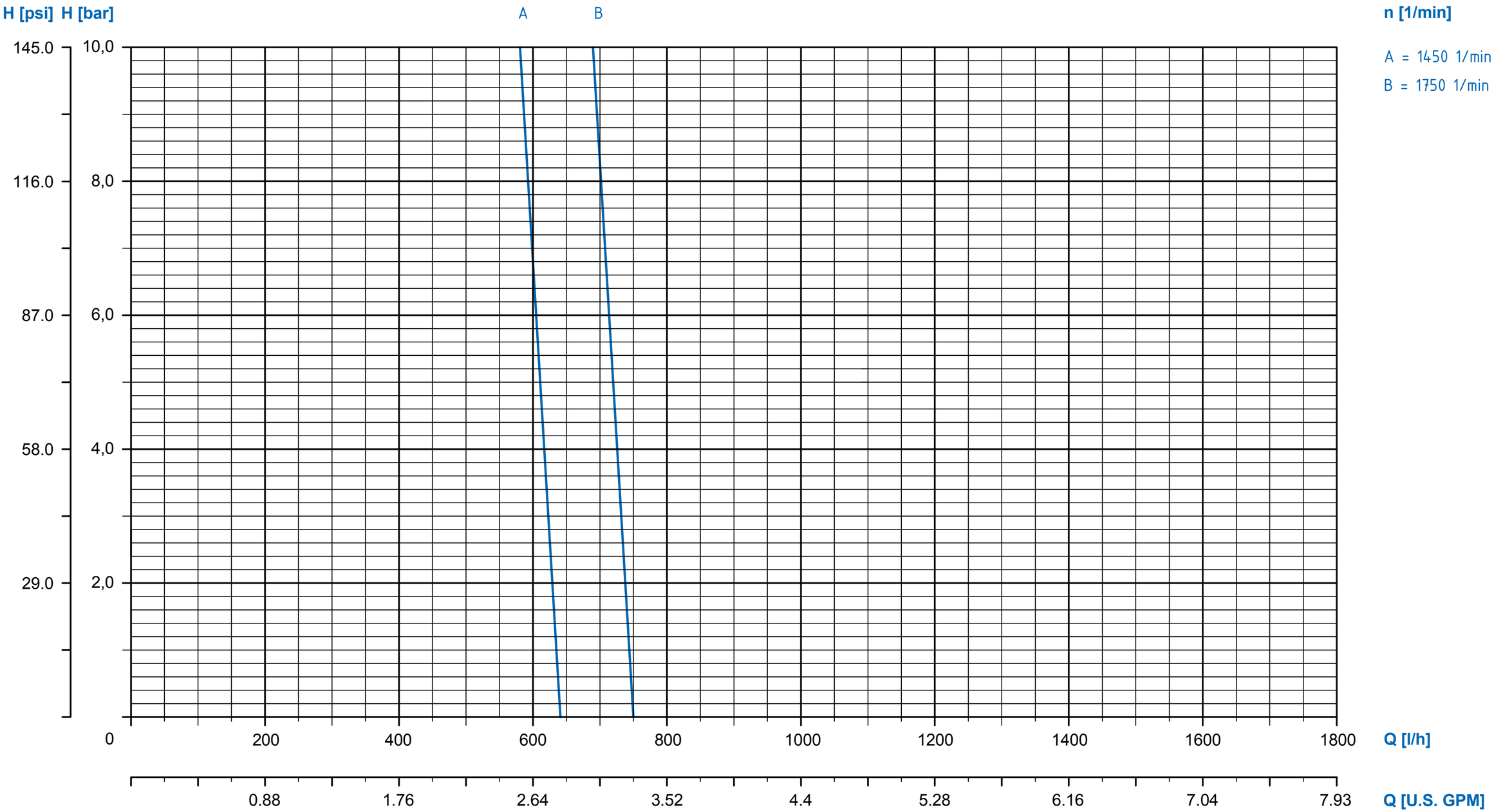
MARCH Series: VANE-MAG® MP pumps are rotary positive displacement pumps, magnetically coupled and made of non-metallic materials. Characteristic wise, rotary sliding vane pumps generate low volumetric flows with middle to high discharge pressures and approximately no pulsation. The operating principle 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 Neodynium-Permanent-Magnets. So the pump is able to work without any shaft seals, which guarantee a save 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

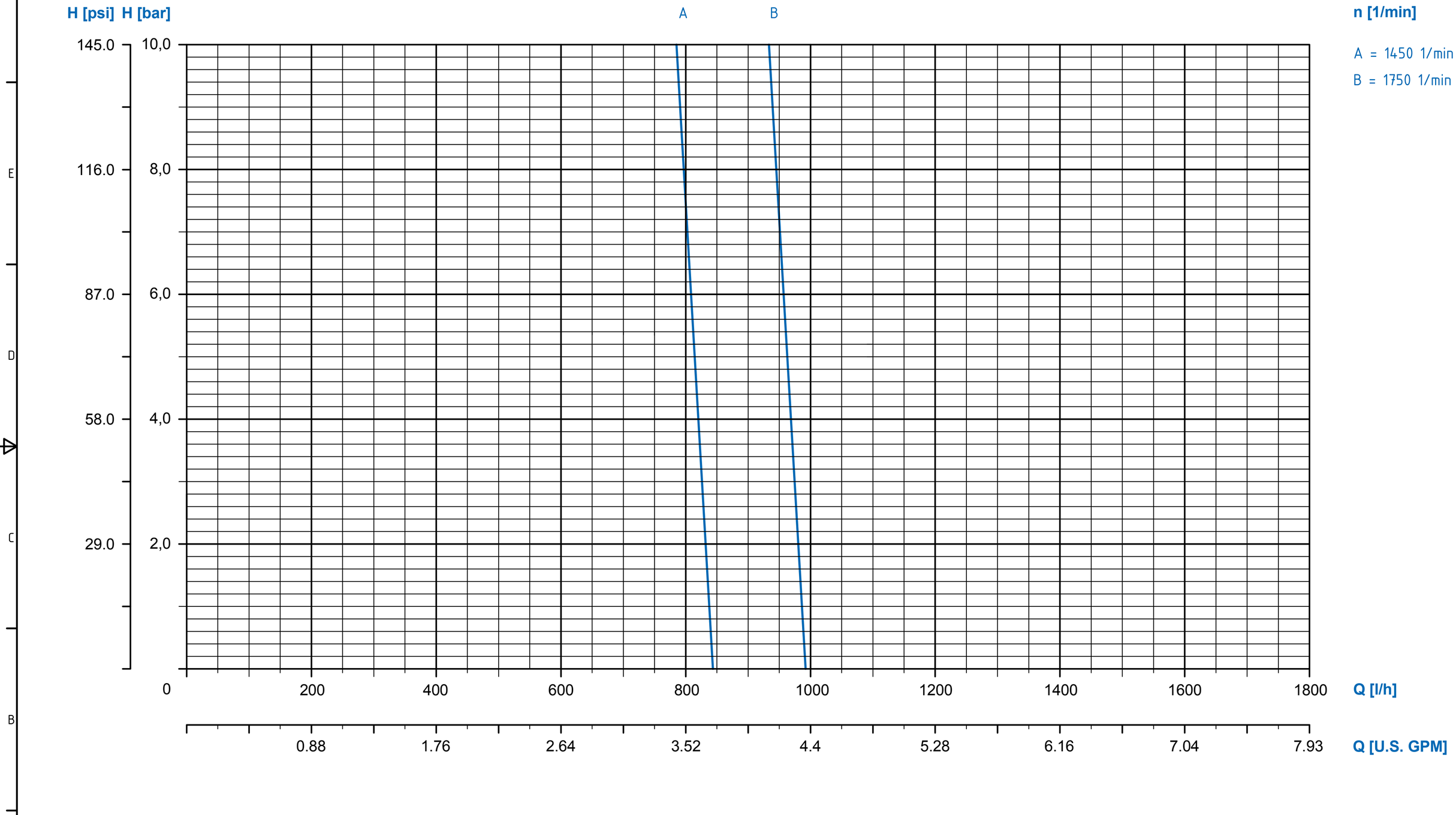
EU Version:	IEC Size 80 B35, 0,55 - 0,75kW, 1500 1/min
US Version:	NEMA56C, 0.75 HP NEMA145TC, 1.0 HP 1750 1/min



MARCH PUMPEN GmbH
Rathenaustraße 2
D-35394 Gießen

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

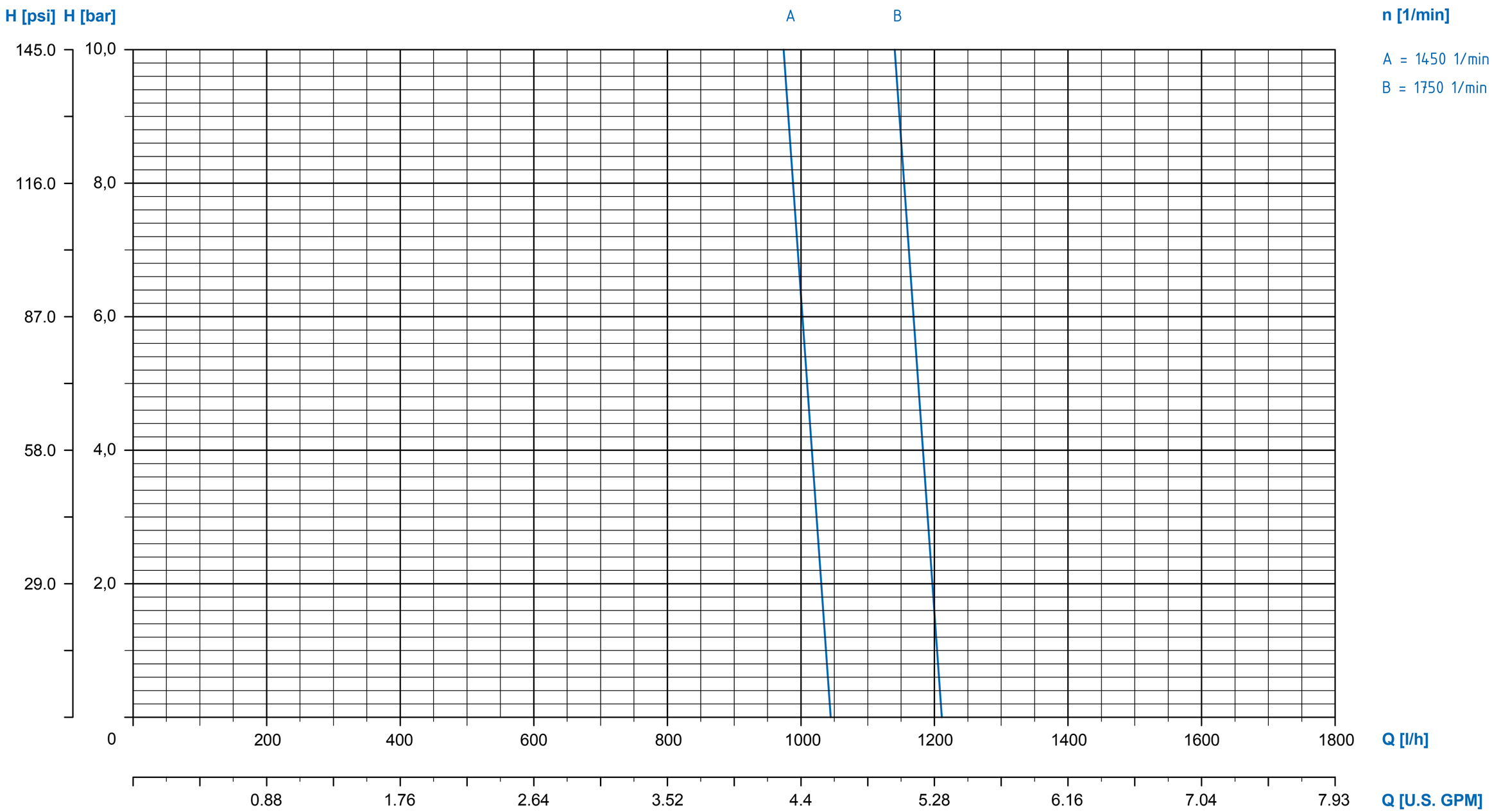
KENNLINIEN / PERFORMANCE CURVES			
Series	VANE-MAG		
Pump Size	VANE-MAG MP 614		
Motor Power	0,55kW / 0.75HP		
Speed	1450 / 1750 1/min		
Fluid Viscosity	1 mm^2/s	Fluid Density	1 kg/dm^3



MARCH PUMPEN GmbH
Rathenaustraße 2
D-35394 Gießen

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

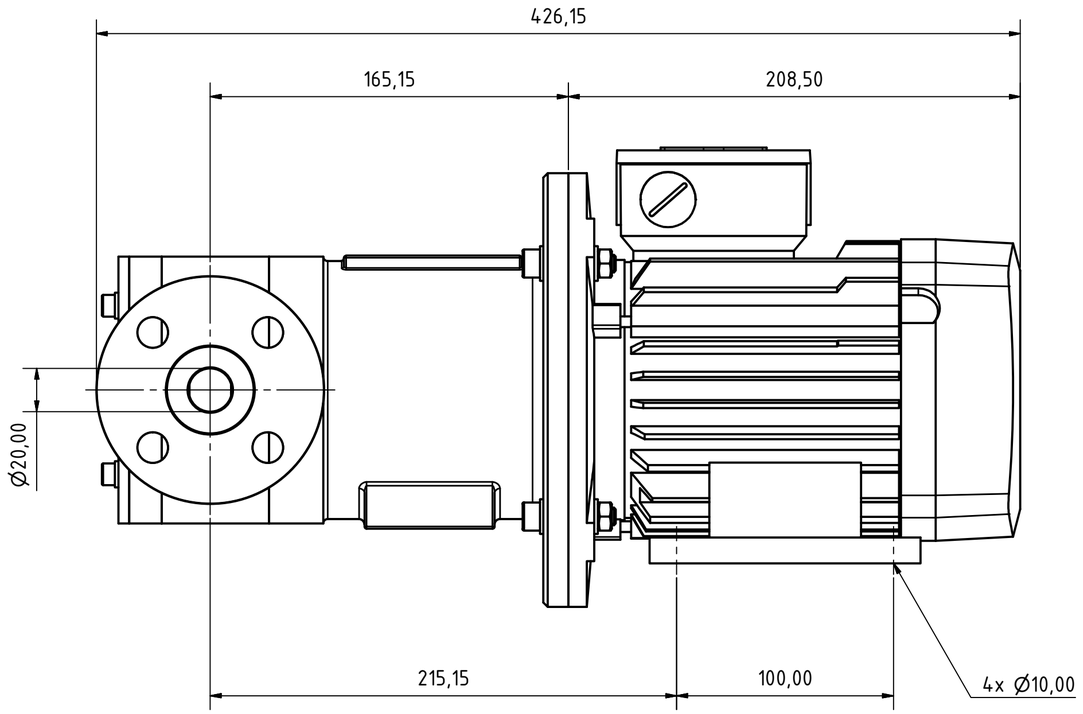
KENNLINIEN / PERFORMANCE CURVES			
Series	VANE-MAG		
Pump Size	VANE-MAG MP 814		
Motor Power	0,75kW / 1.0HP		
Speed	1450 / 1750 1/min		
Fluid Viscosity	1 mm^2/s	Fluid Density	1 kg/dm^3

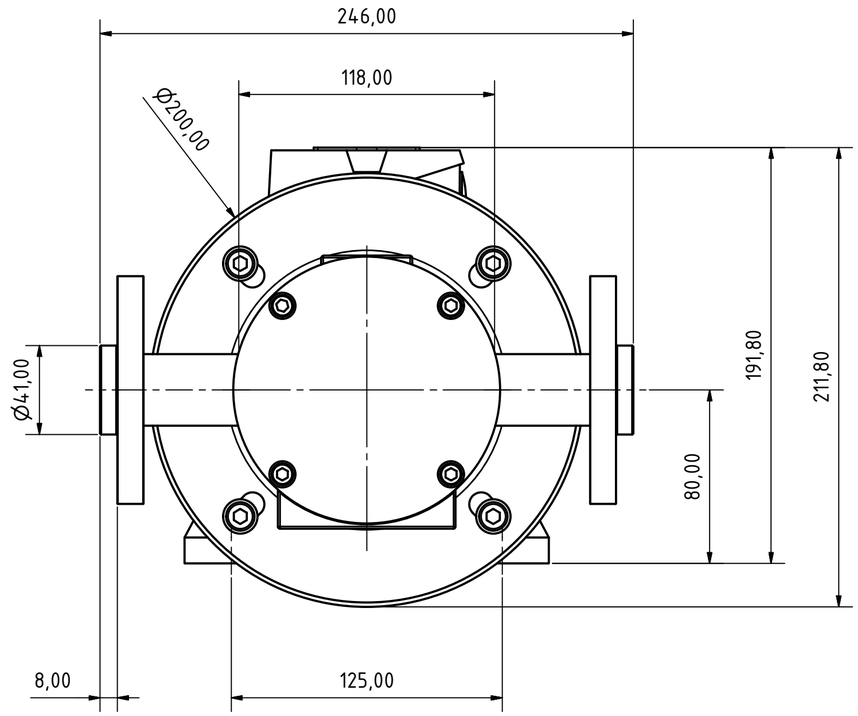


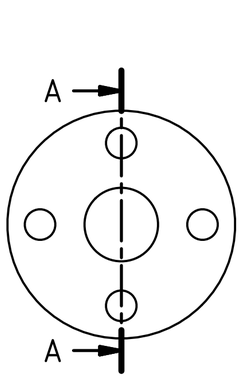
MARCH PUMPEN GmbH
Rathenaustraße 2
D-35394 Gießen

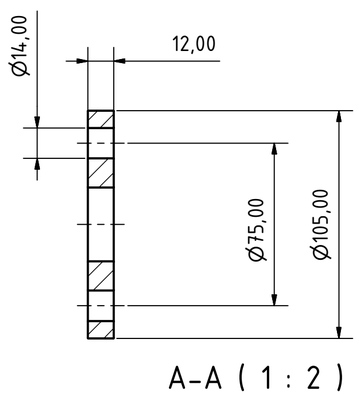
www.march-pumpen.com
info@march-pumpen.com

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

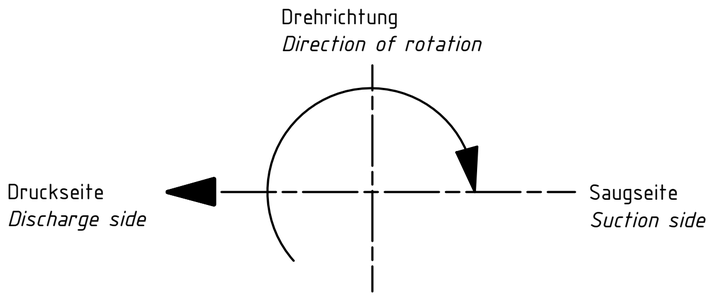








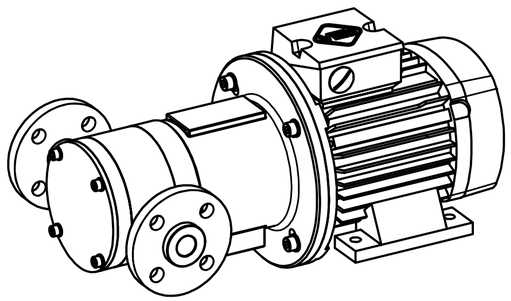
A-A (1 : 2)



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



MARCH PUMPEN GmbH
Rathenaustraße 2
D-35394 Gießen
Tel.: (+49) (0)641-686806-0
Fax.: (+49) (0)641-686806-60

1:2

Pump weight: 15kg

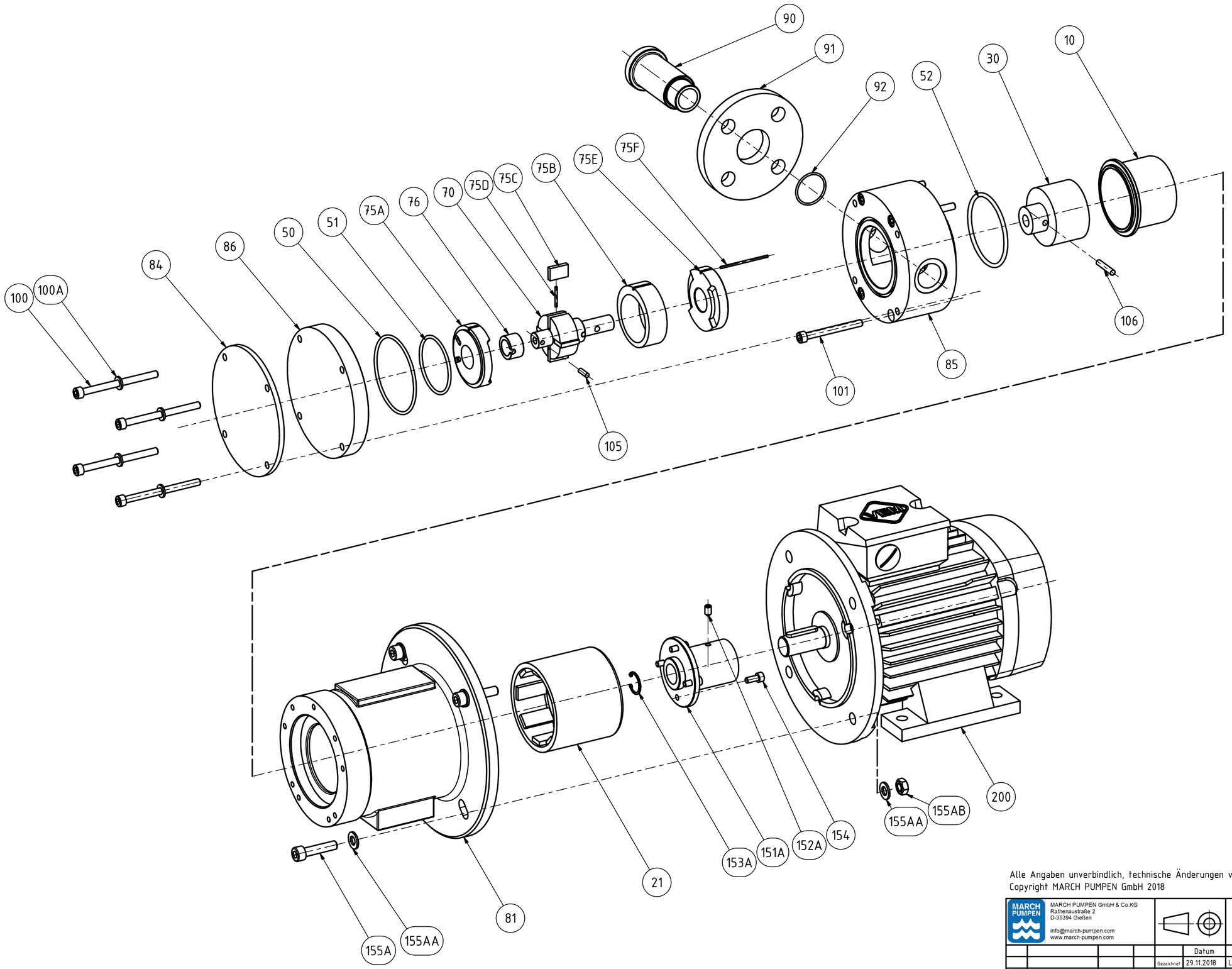
	Datum	Name
Gezeichnet	09.11.2018	Lach
Kontrolliert		
Norm		

VANE-MAG MP 2G Range
PPF - IEC80

MP2G_PPFA_NEMA

1
A2

Status	Änderungen	Datum	Name



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

	Datum	Name
Gezeichnet	29.11.2018	Lach
Kontrolliert		
Norm		

Allgemeintoleranzen nach DIN ISO 2768-m
Alle Kanten gratfrei

MPA 2G Range PPF IEC80
Gleitschieberpumpe / *Sliding Vane Pump*
Explosionsdarstellung / *Explosion view*

EXP_MP2GR_PPF_IEC80 | 1 | A2

Status	Änderungen	Datum	Name