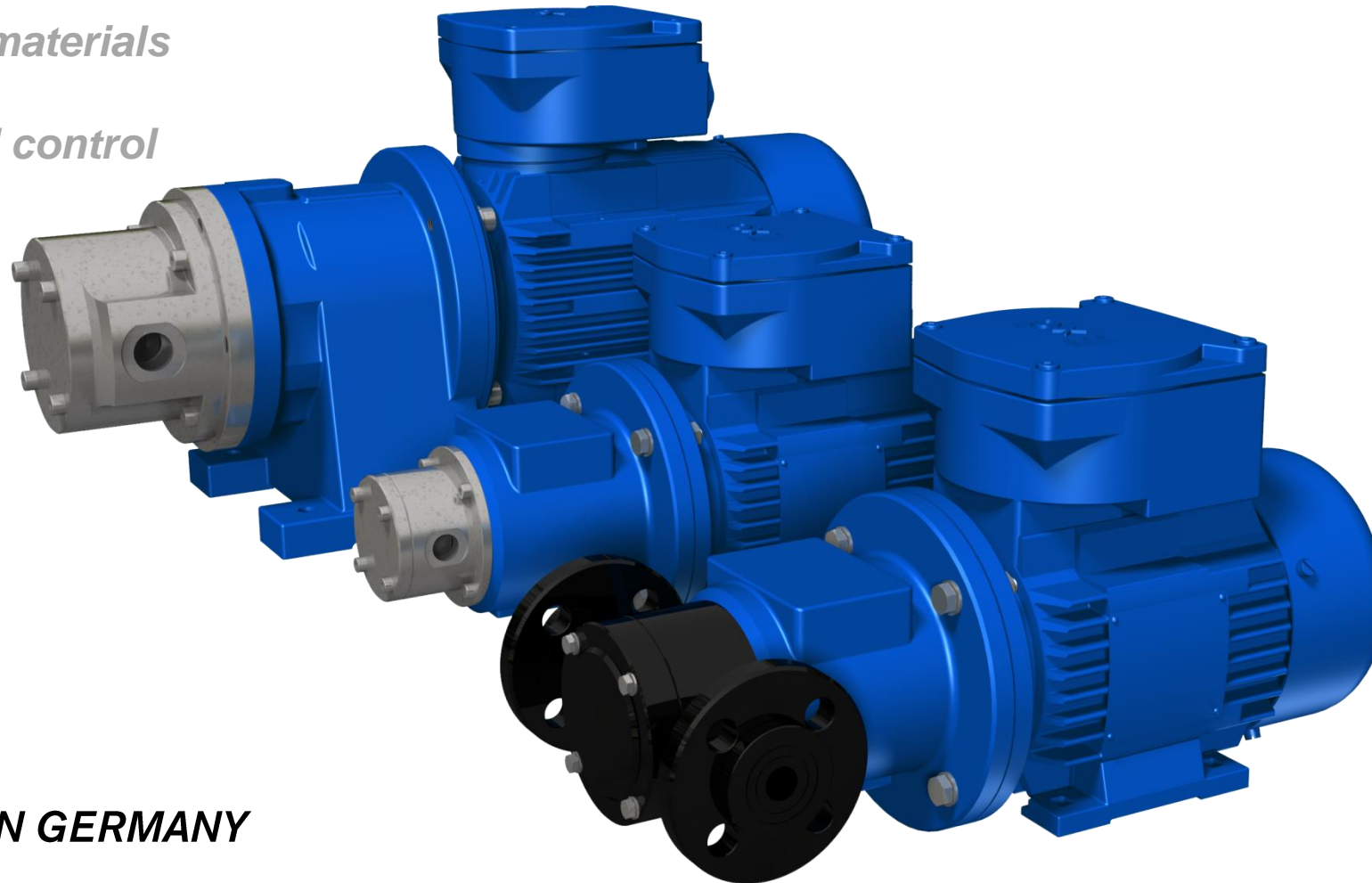


Magnetic Coupled Sliding Vane Pump Type MP/MPA

**TREND-SETTING TECHNOLOGY–
for low viscosity liquids without lubricating effect**

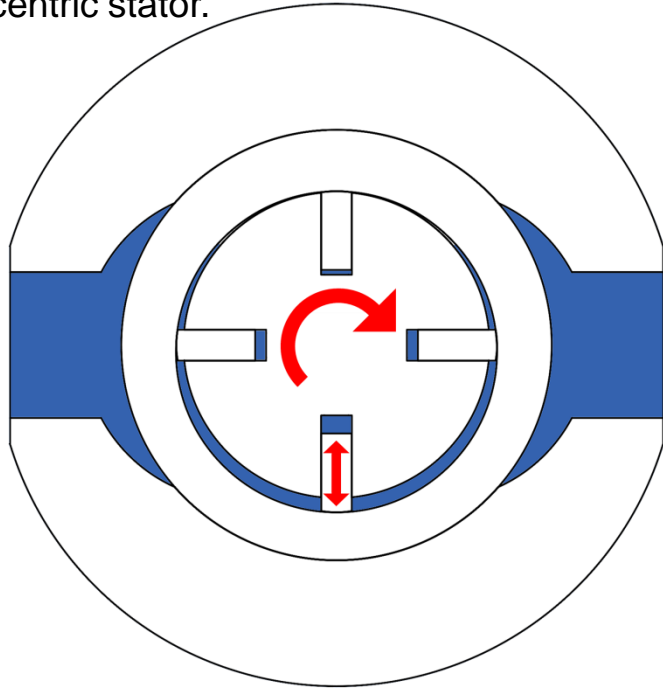
- *non-corrosive materials*
- *leak-free*
- *constant speed control*
- *pulsation free*
- *low flow*
- *high head*
- *acc. to ATEX*



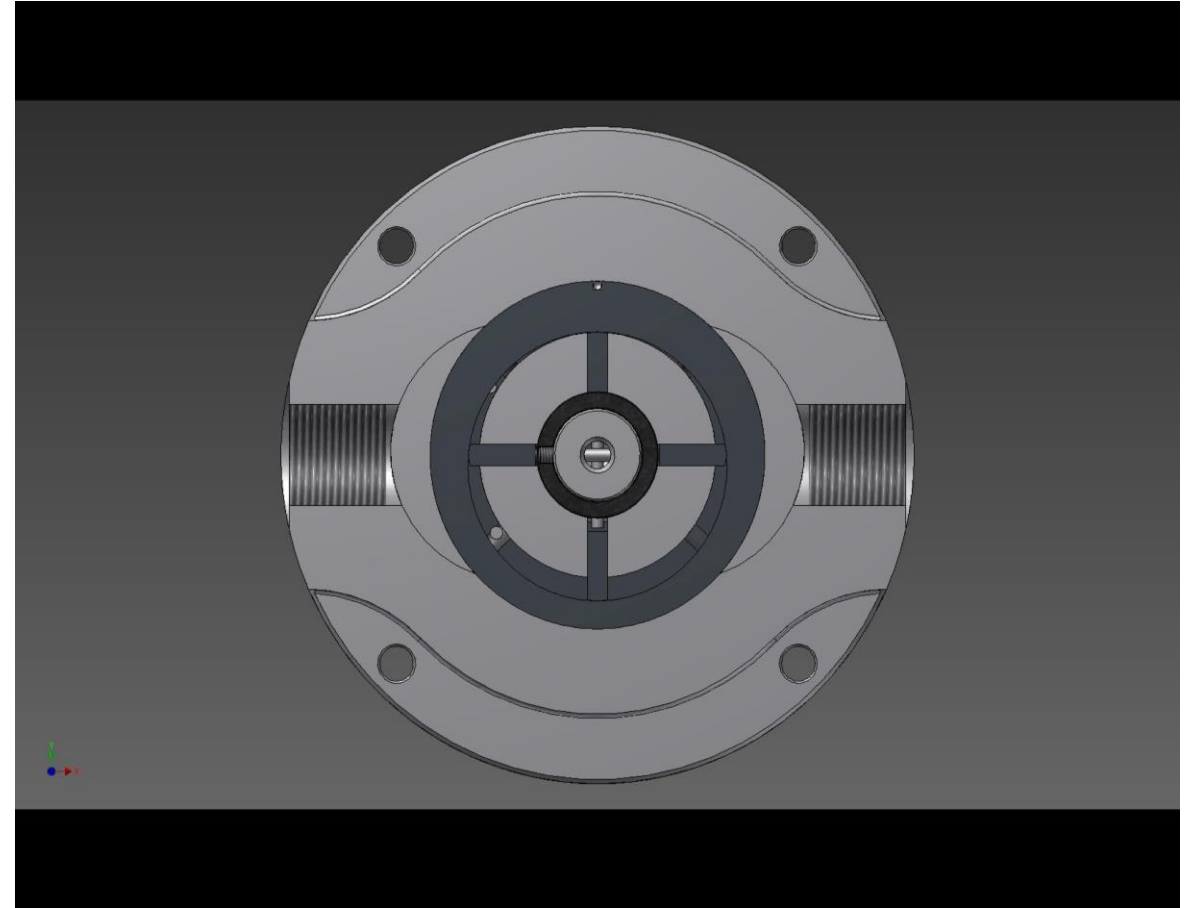
QUALITY MADE IN GERMANY

Functional Principle

The operating principle of the sliding vane pump, which is also known as rotary vane pump, is based on radial moving sliders, which are running in an eccentric stator.

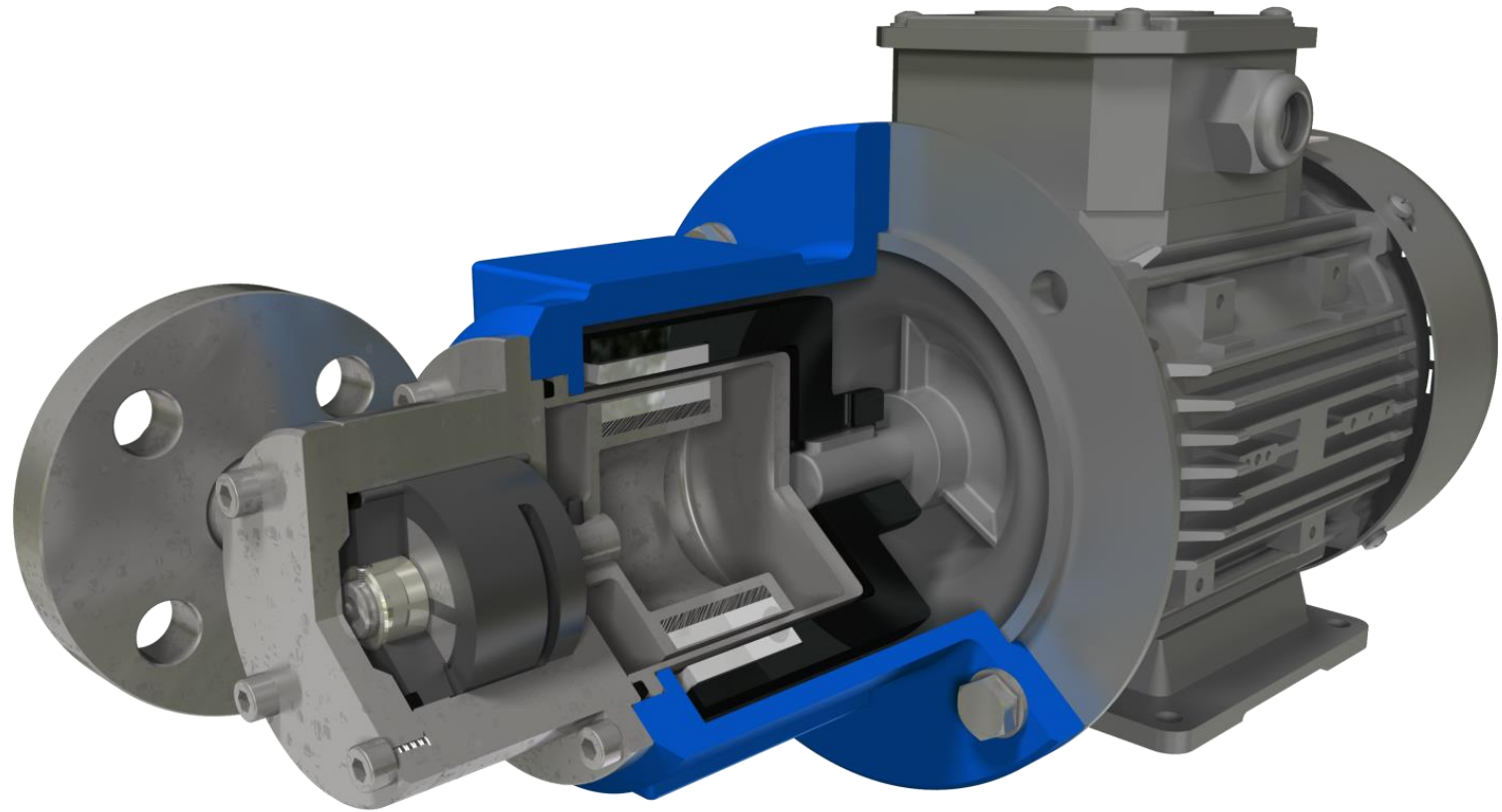


According to the positive displacement principle, these sliders generate a nearby pulsation free flow with high discharge pressure and low flow rates.



FEATURES

- Leak-free
- Ideal for metering applications
- Self-lubricating hydraulic parts
- High discharge pressure
- Low flow
- Rugged design
- Corrosion resistant
- Self-priming
- Dry running able (only MPA)
- Close coupled, compact design
- Nearby pulsation free flow
- Ideal for use with frequency inverter
- Can handle low viscosity liquids

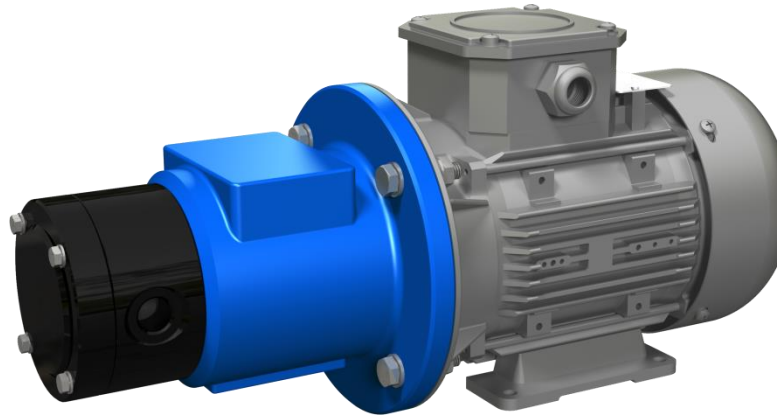


Specifications MP I° Range

MP I°Range 114-514

Performance data

Flow:	max. 500 l/h
Head:	max. 6,5 bar
Temperature:	max. 65°C
System pressure:	max. 7,5 bar
NPSH req.:	3,3 m @ 1450 rpm

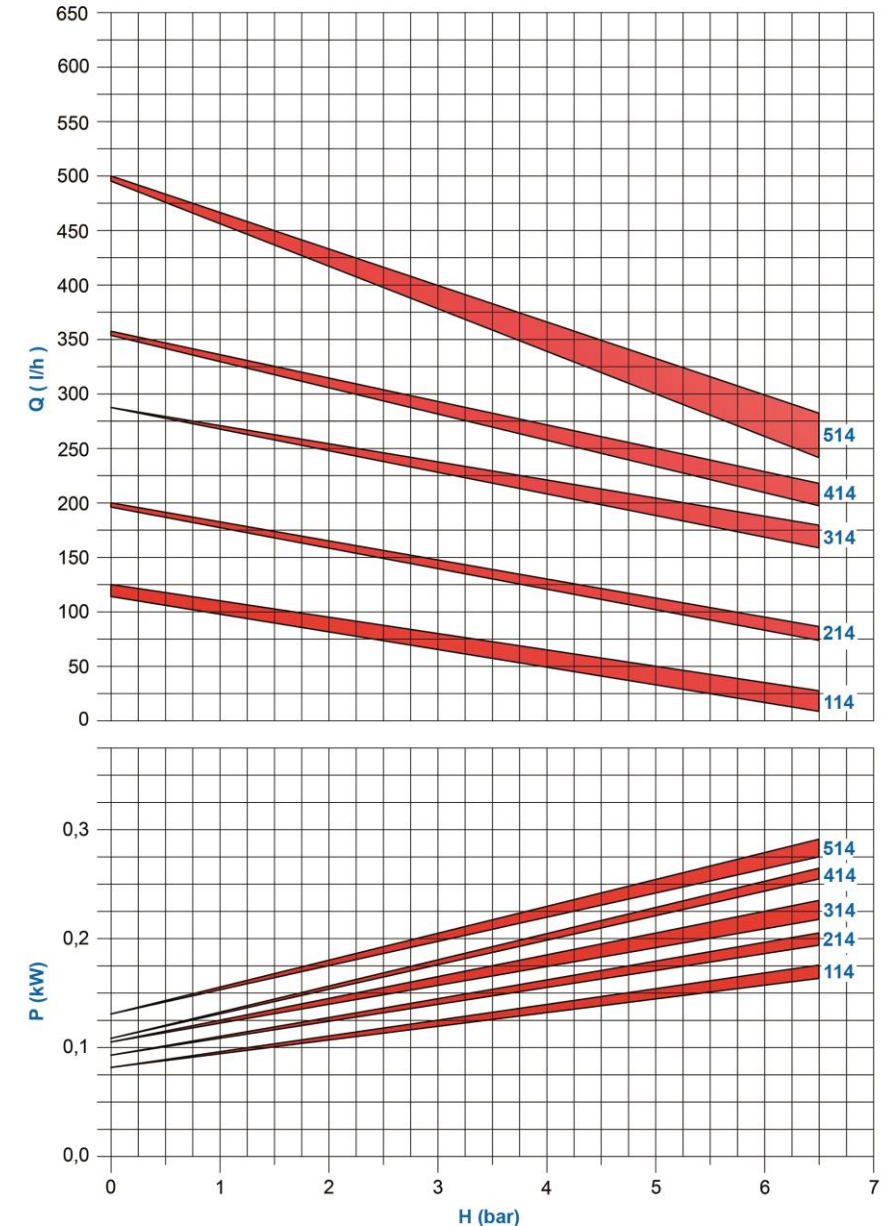


Parts in contact with liquid

Pump casing:	PP, PVDF
O-Rings:	EPDM, FKM, FFKM
Rotor:	PVDF
Stator:	Resin impregnated carbon
Sliding spool:	Resin impregnated carbon
Bushing:	SSiC

Pump characteristics

- Rotary vane pump according to positive displacement principle
- Constant speed control mode without losses of differential pressure
- Perfect for applications with low-viscosity liquids and liquid gases
- Handling of liquids nearly pulsation-free
- Excellent protection against corrosive liquids
- Pump type according to ATEX 2014/34/EU, suitable for Zone 1

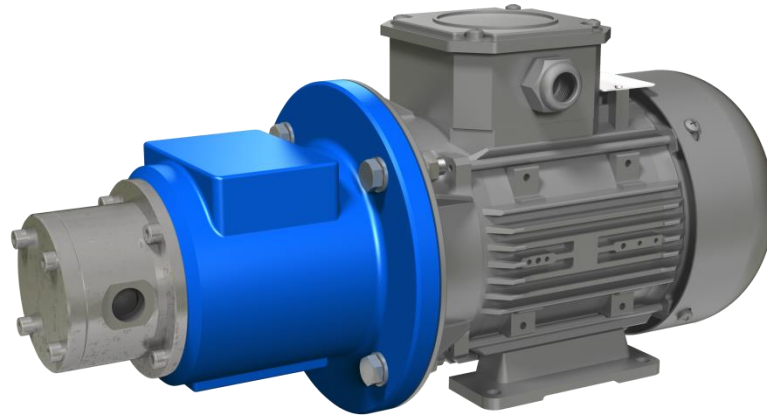


Specifications MPA I° Range

MPA I° Range 114-514

Performance data

Flow:	max. 500 l/h
Head:	max. 13 bar
Temperature:	max. 120°C
NPSH req.:	3,3 m @ 1450 rpm
System pressure:	max. 16 bar

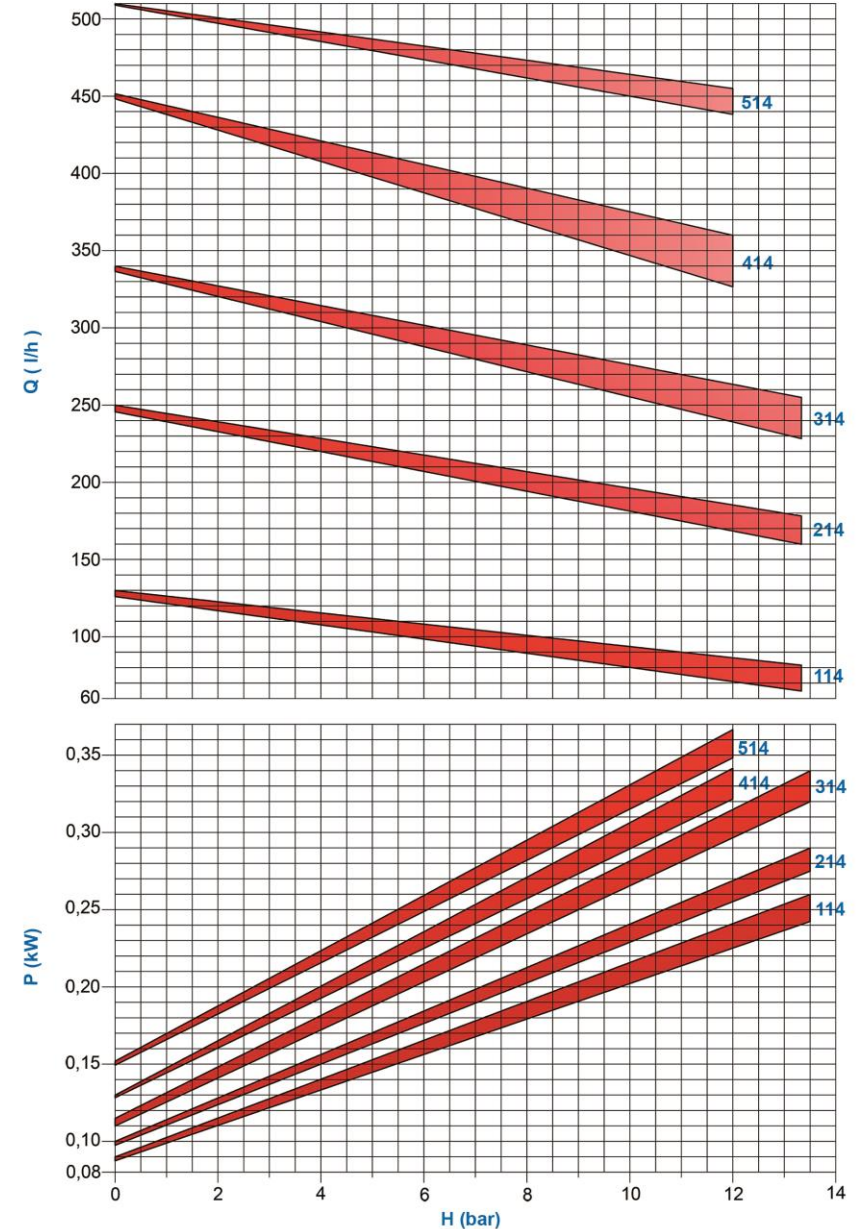


Parts in contact with liquid

Pump casing:	Stainless steel 1.4571
O-Rings:	EPDM, FKM, FEP
Rotor:	Stainless steel 1.4571
Stator:	Resin impregnated carbon
Sliding spool:	Resin impregnated carbon
Bushing:	SSiC

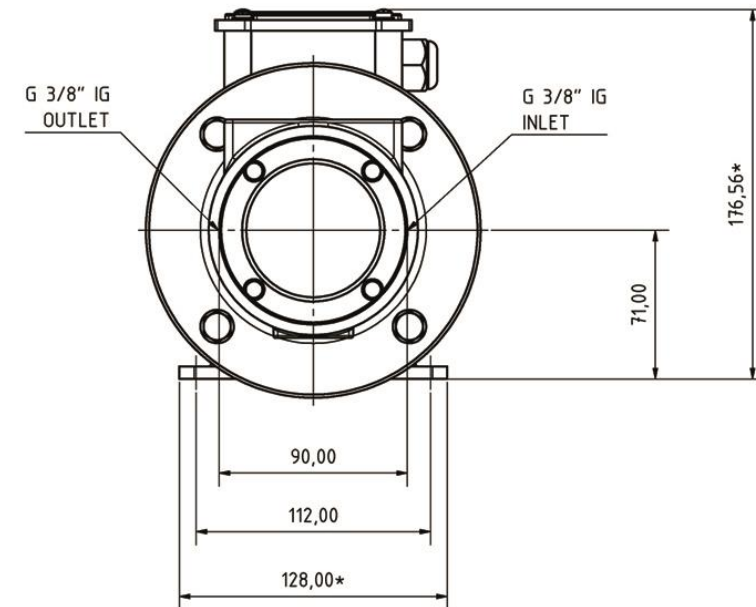
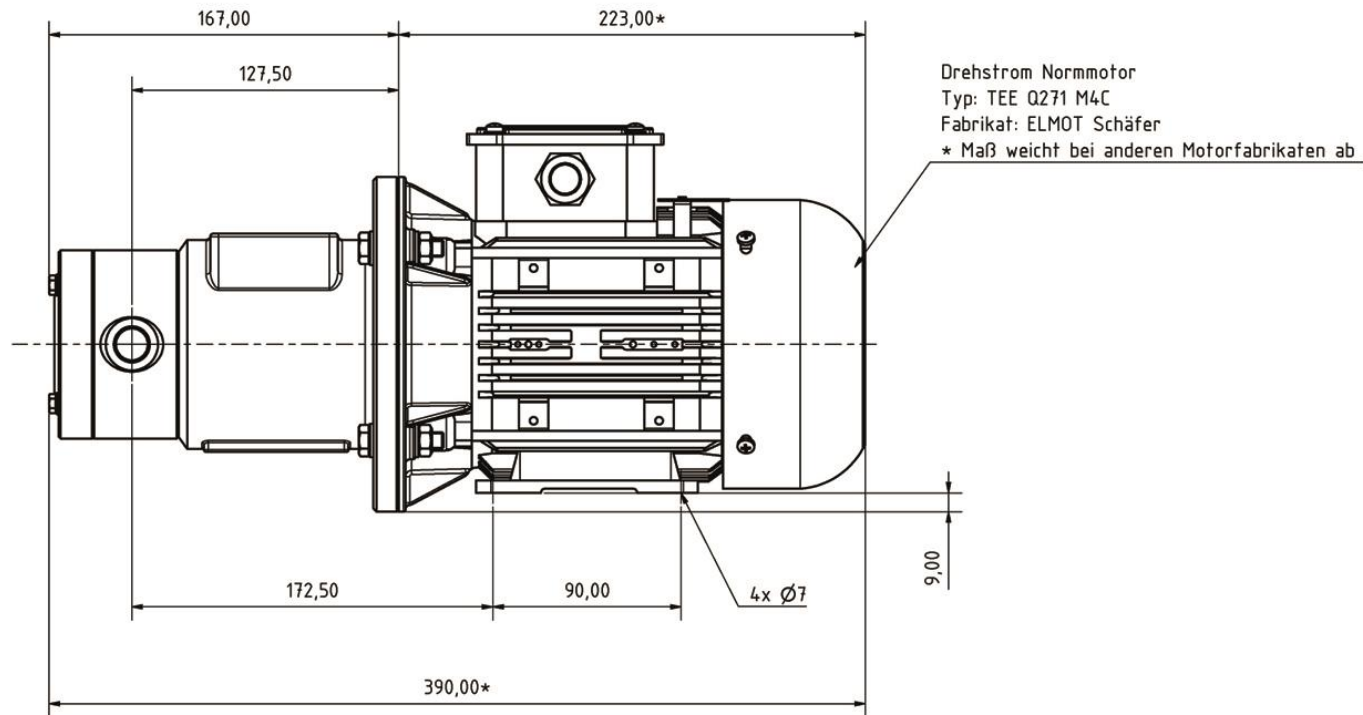
Pump characteristics

- Rotary vane pump according to positive displacement principle
- Constant speed control mode without losses of differential pressure
- Perfect for applications with low-viscosity liquids and liquid gases
- Handling of liquids nearly pulsation-free
- Pump type according to ATEX 2014/34/EU, suitable for Zone 1



Dimensions

Pump type MP/MPA I° Range



Also available with Flange connection DN15 PN16

Specifications MPA II° Range

MPA II° Range 614-814

Performance Data

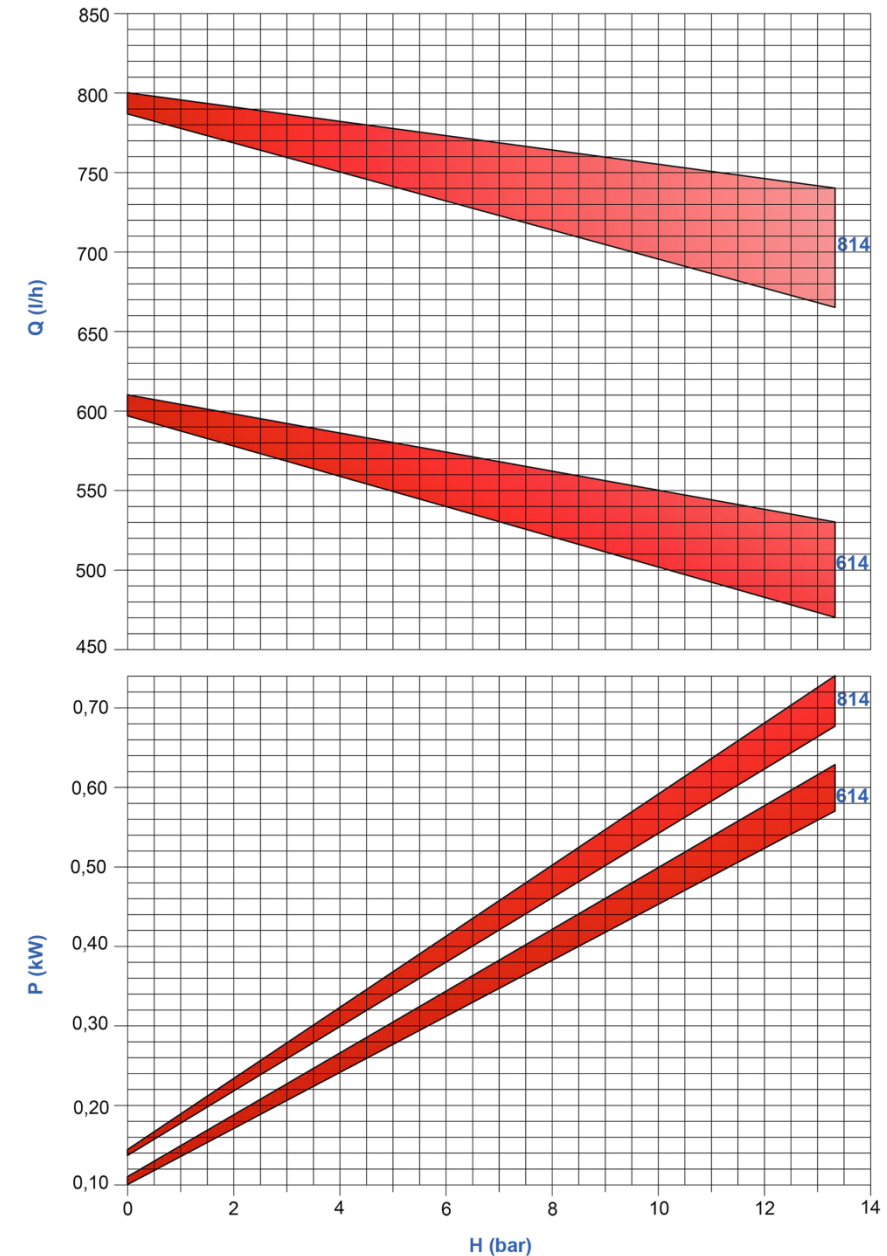
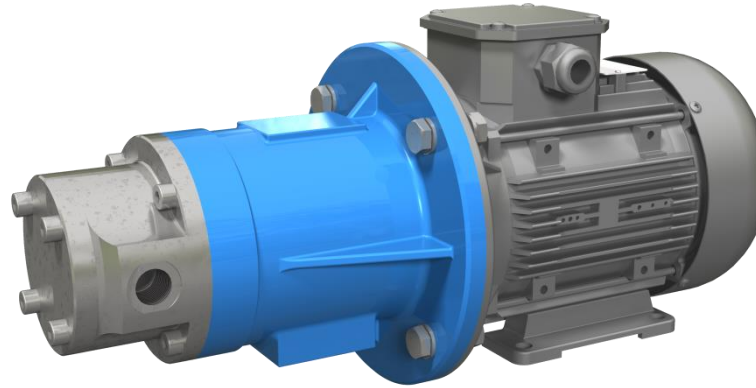
Flow:	max. 800 l/h
Head:	max. 13 bar
Temperature:	max. 120°C
NPSH req.:	4,5 m @ 1450 rpm
System pressure:	max. 16 bar

Parts in contact with liquid

Pump casing:	AISI316
O-Rings:	EPDM, FKM, FEP
Rotor:	AISI316
Stator:	Resin impregnated carbon
Sliding spool:	Resin impregnated carbon
Bushing:	SSiC

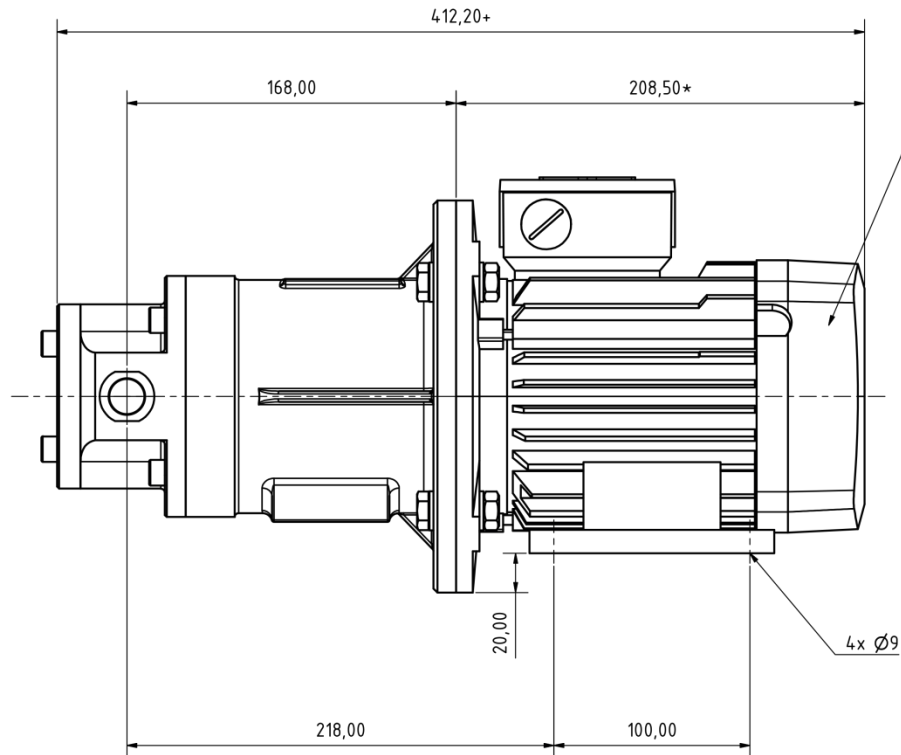
Pump characteristics

- Rotary vane pump according to positive displacement principle
- Constant speed control mode without losses of differential pressure
- Perfect for applications with low-viscosity liquids and liquid gases
- Handling of liquids nearly pulsation-free
- Pump type according to ATEX 2014/34/EU, suitable for Zone 1



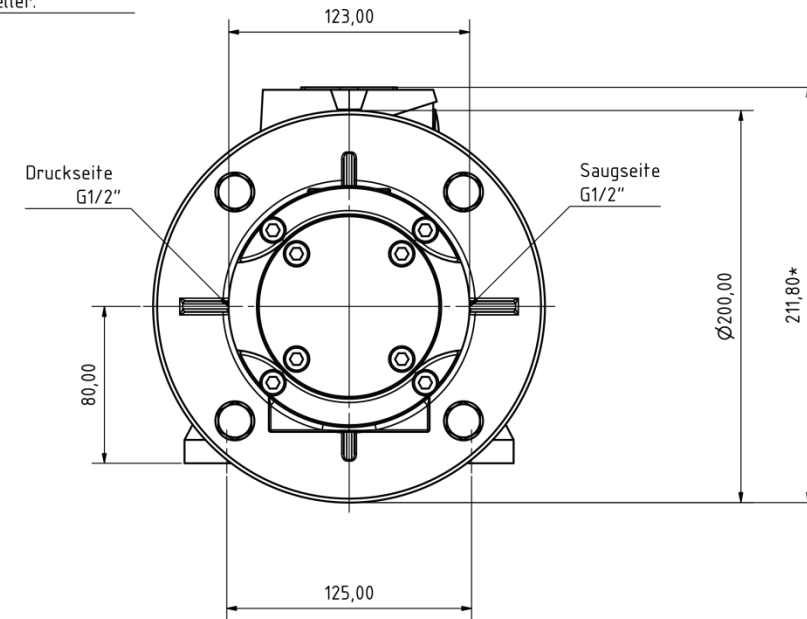
Dimensions

Pump type MPA II° Range



IEC BG80 - IMB35 - 0,55kW - 4-pol. - Fabrikat VEM

*Maß variiert je nach Motorenhersteller.



Also available with Flange connection DN20 PN16

Specifications MPA III° Range

MPA III° Range 1014-2014

Performance data

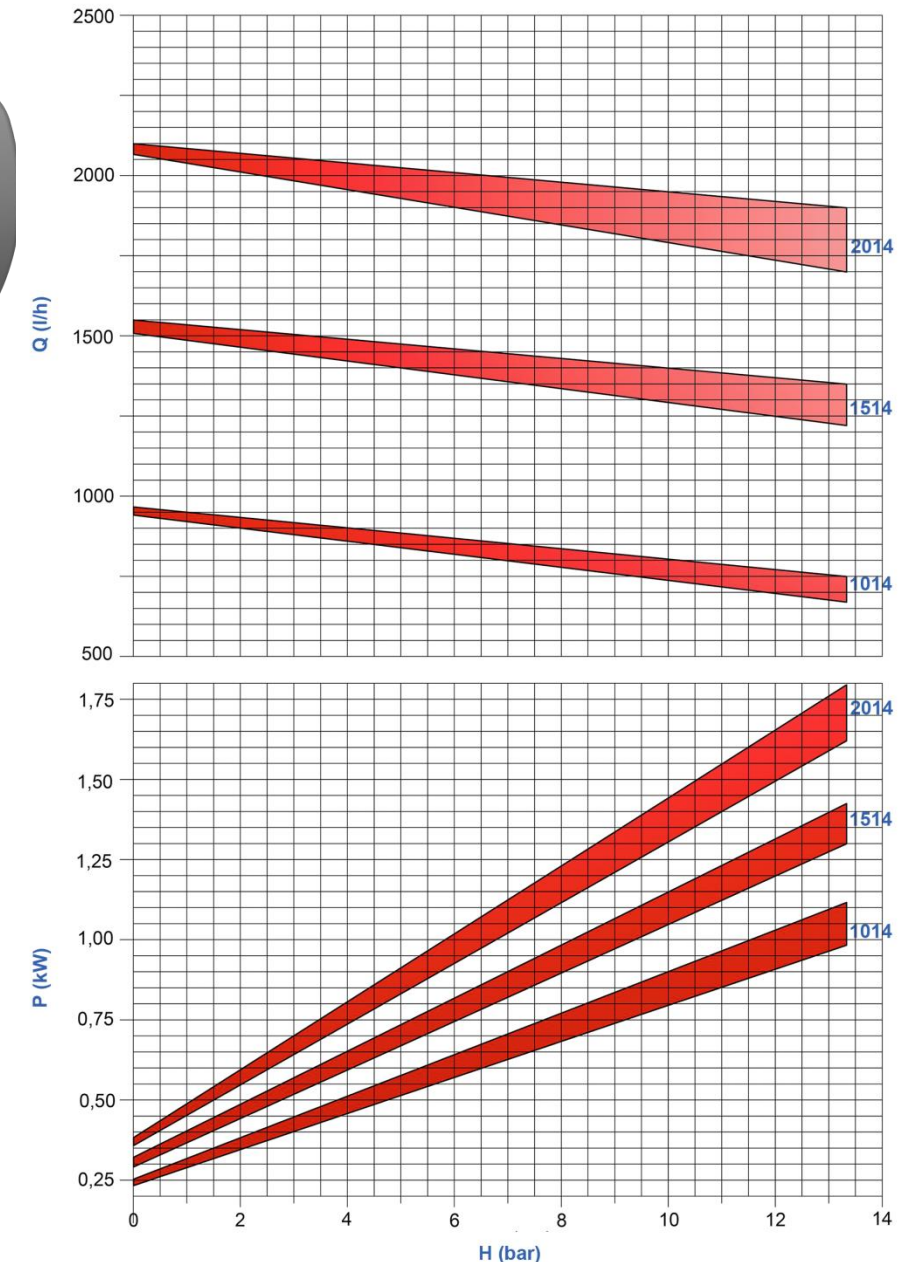
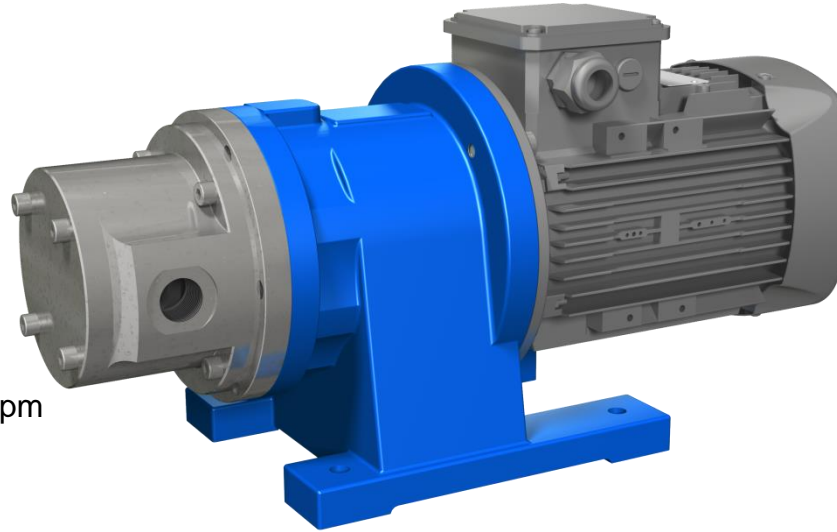
Flow:	max. 2100 l/h
Head:	max. 13 bar
Temperature:	max. 120°C
NPSH req.:	5,6 m @ 1450 rpm
System pressure:	max. 16 bar

Parts in contact with liquid

Pump casing:	Stainless steel 1.4571
O-Rings:	EPDM, FKM, FEP
Rotor:	Stainless steel 1.4571
Stator:	Resin impregnated carbon
Sliding spool:	Resin impregnated carbon
Bushing:	SSiC

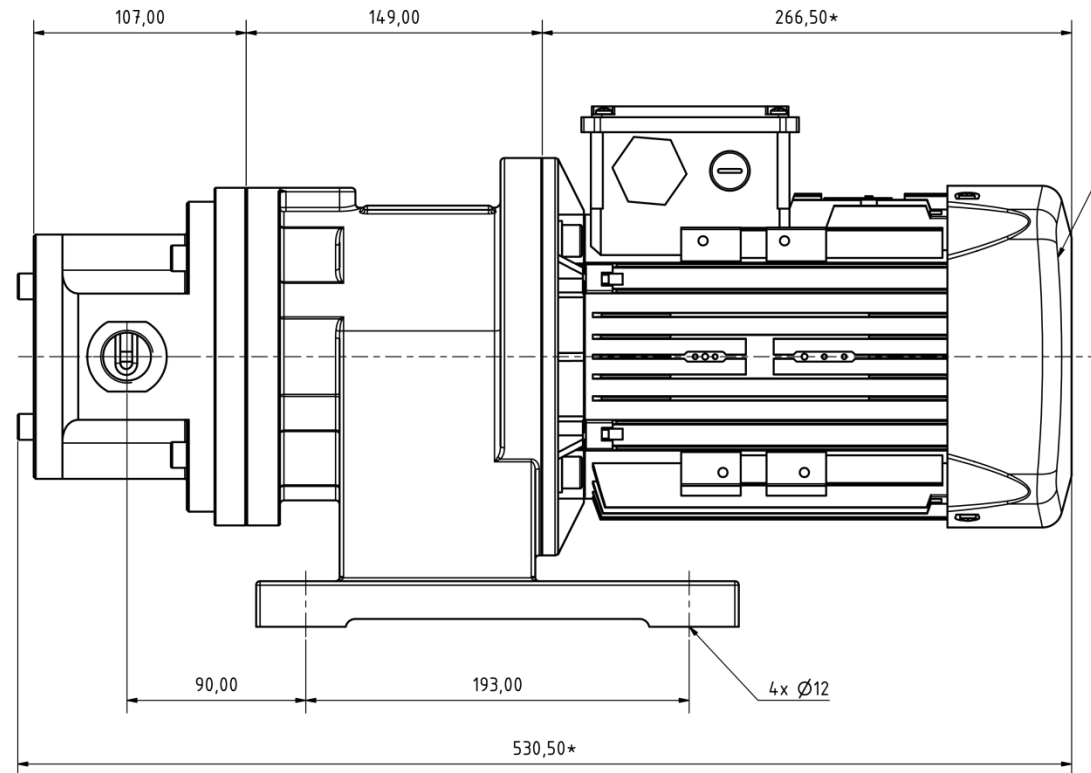
Pump characteristics

- Rotary vane pump according to positive displacement principle
- Constant speed control mode without losses of differential pressure
- Perfect for applications with low-viscosity liquids and liquid gases
- Handling of liquids nearly pulsation-free
- Pump type according to ATEX 2014/34/EU, suitable for Zone 1

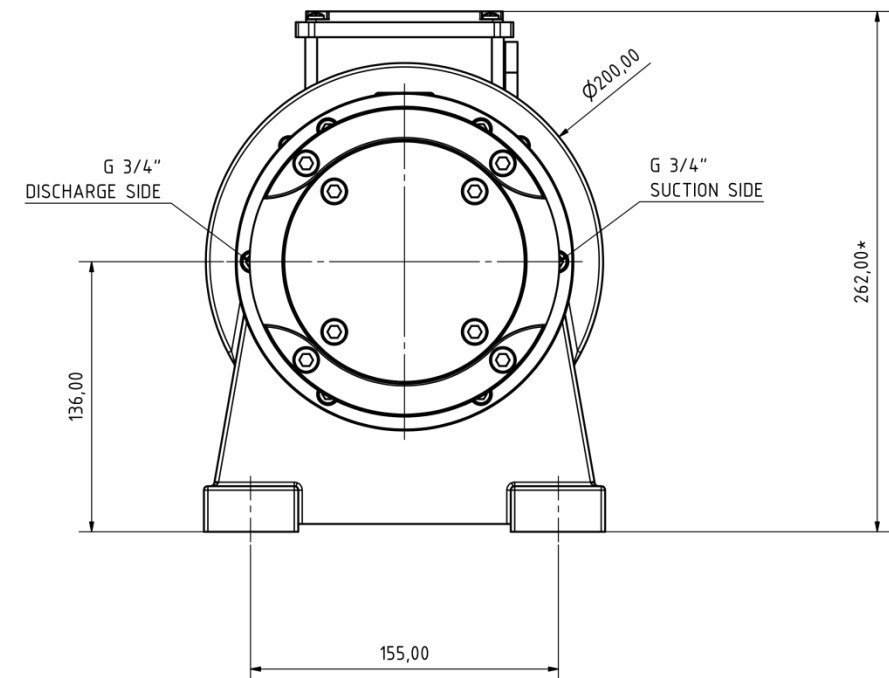


Dimensions

Pump type MPA III° Range



Drehstrom-Asynchronmotor mit Käfigläufer
Typ: QZE 90 L4 B3
1,5kW IE2 - 400V - 50Hz
*Maß weicht bei anderen Motortypen ab



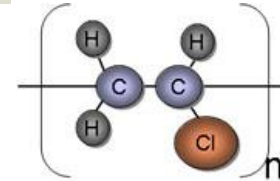
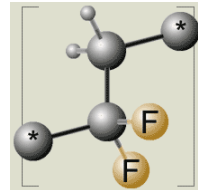
Also available with Flange connection DN25 PN16

Material

To grant maximum security, a whole range of different material is suitable for the sliding vane pump.

Material for pump casing:

- PP (Polypropylen)
- PVDF (Polyvinylidenfluorid)
- PE (Polyethylen)
- PVC (Polyvinylchlorid)



Conductible and antistatic material for use in ATEX areas:

- PVDF-FCR
- PE-ESD
- AISI316Ti (1.4571)

Furthermore, pumps can be equipped with a variety of different O-Ring material:

- FKM
- EPDM
- FEP



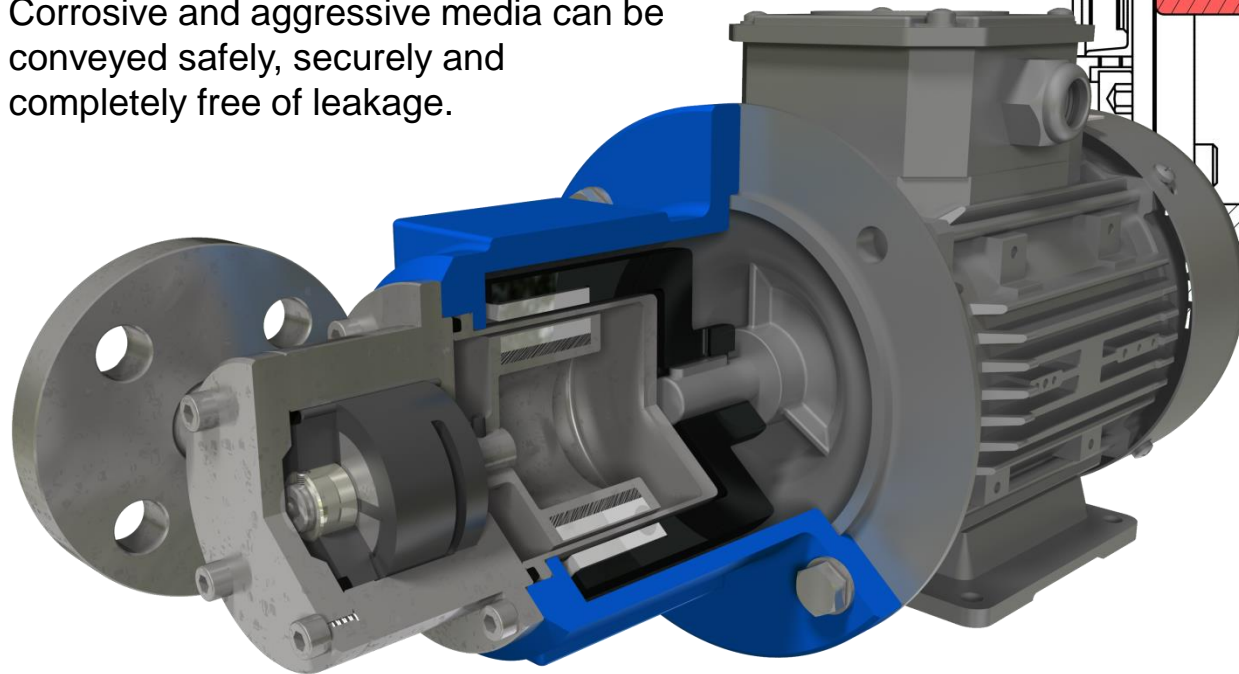
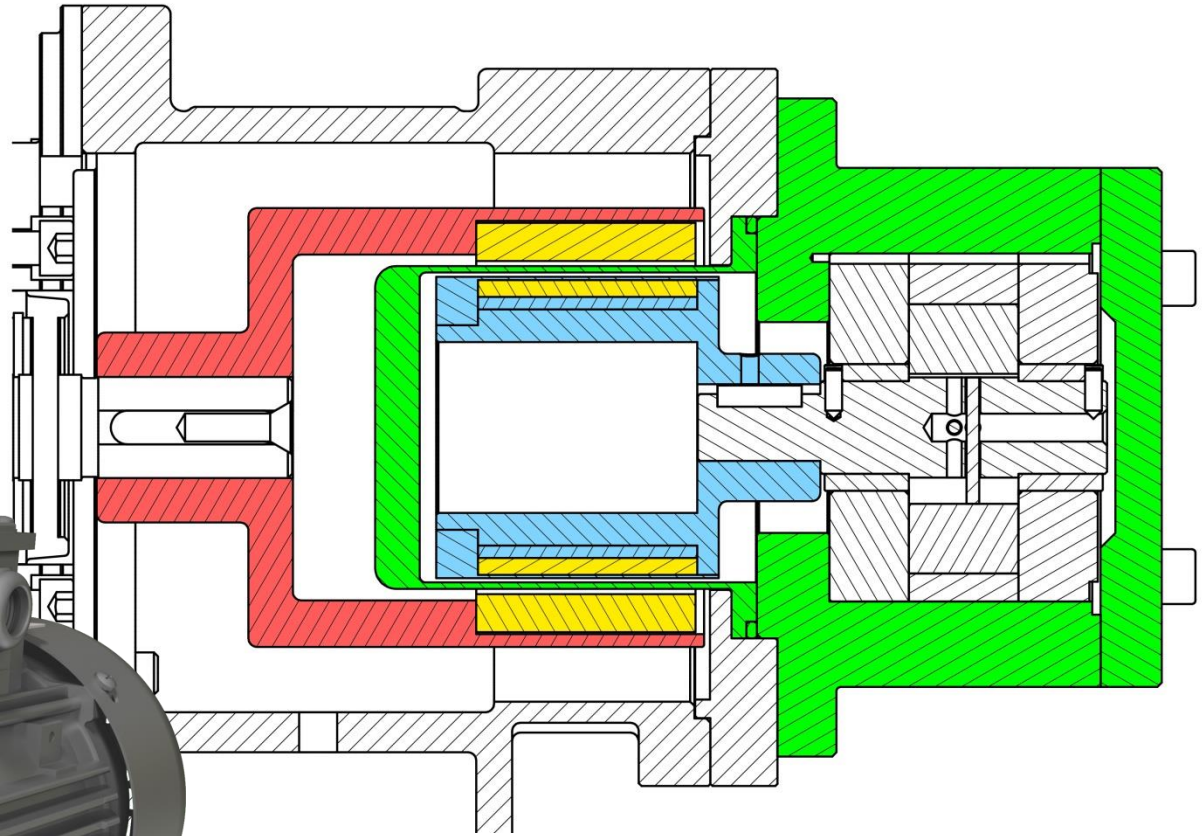
Functional Principle of a Magnetic Coupling

The maintenance-free permanent magnetic coupling enables non-contact power transmission from the drive unit to the pump hydraulics, ensuring a hermetic seal of the pump chamber to the outside.

No conventional dynamic seals are used with this procedure.

For pump type MP/MPA strong NdFeB (Neodymium-Iron-Boron) permanent magnets are used, which ensure extremely high power transmission in a compact design.

Corrosive and aggressive media can be conveyed safely, securely and completely free of leakage.

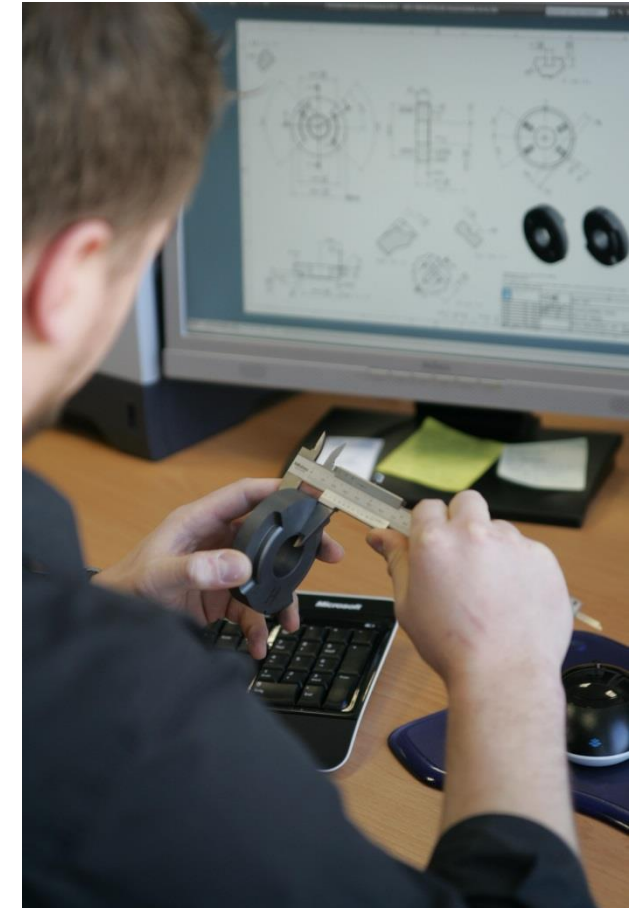


Maximum quality and precision

Already during parts production the single components undergo precise tests for dimensional accuracy as well as tests for compliance of exactly form and position tolerances.

Before delivery, all of our pumps undergo extensive testing at our test bench, under the most extreme conditions.

This ensures a high standard of quality for our customers, at all times.



High Availability

The production at our facility in Giessen and the local storage ensure short access time.

This means short delivery time for our customers.

In case of urgency, Over-Night delivery is only one of our customer services.



Field of Applications

Designed to handle acids, alkalis and solvents.

- Plants for biodiesel
- Injection of AdBlue (ammonia water / urea solution) for flue gas treatment
- Handling of liquid gases, such as Pentane, Hexane, Isobutane and much more.
- Dosing / Metering
- Circulating small quantities at high pressure
- Pressure increase



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

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

