



**ZEILFELDER**  
PUMPEN

# Shaft Sealing Solutions



**Rotary Lobe/  
Gear Pumps**

Up to:

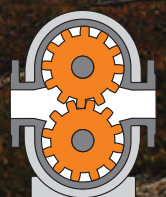
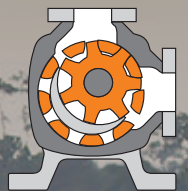
**120** bar

**450**°C

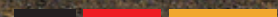
$\eta=$ **92%**

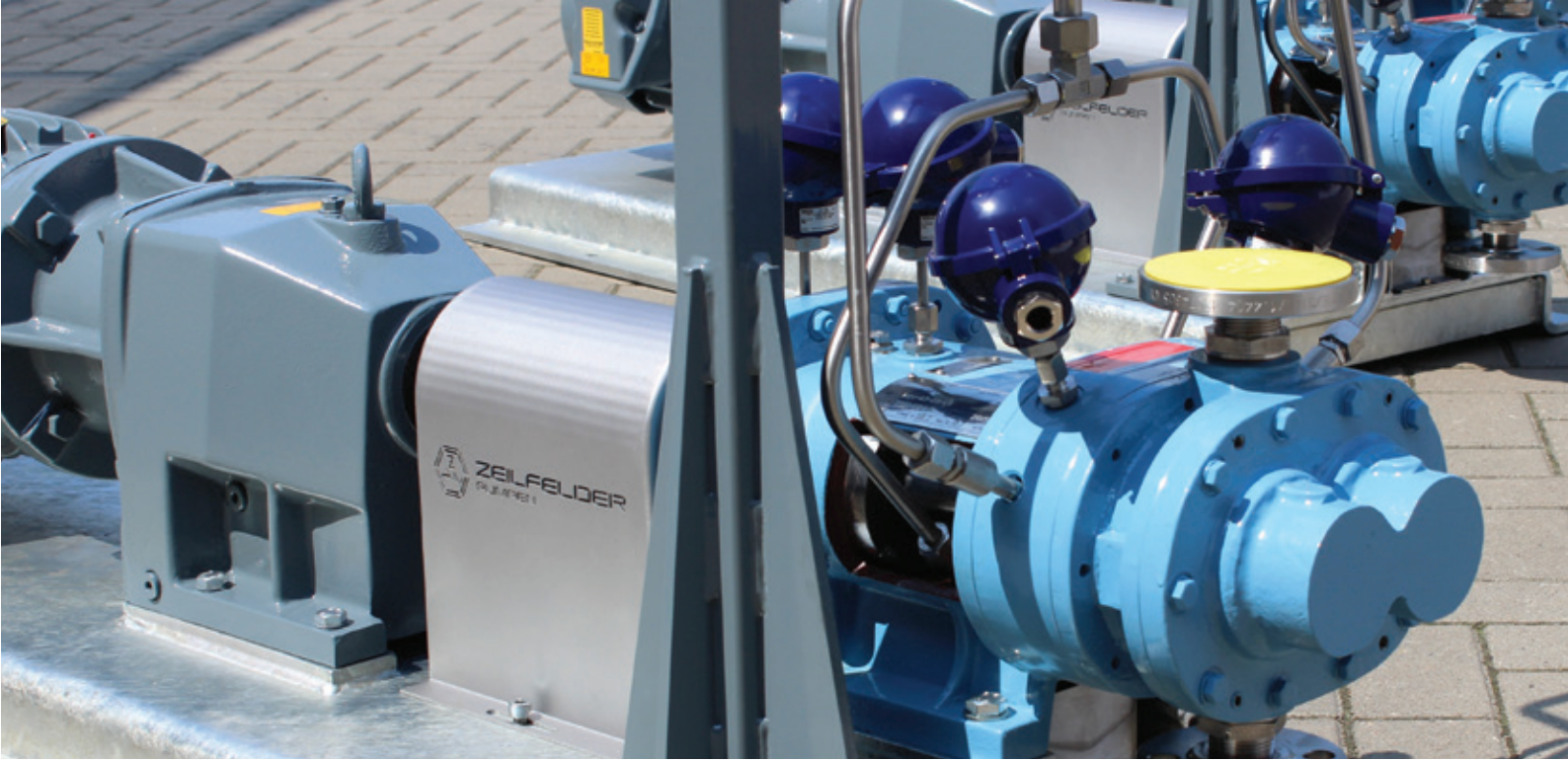
**3,400,000** mPas

API, TA-Luft,  
ATEX and TR CU  
certifications



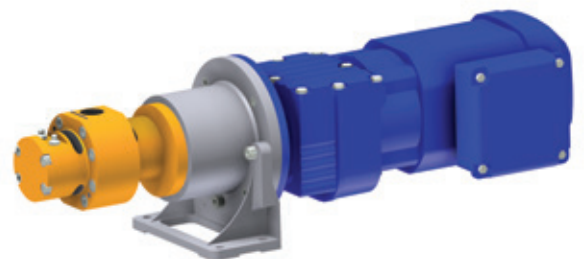
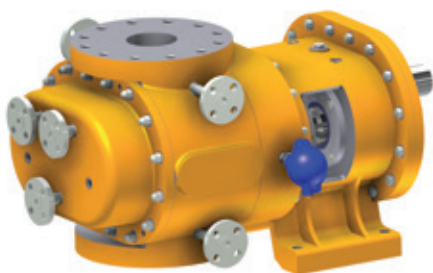
made in Germany



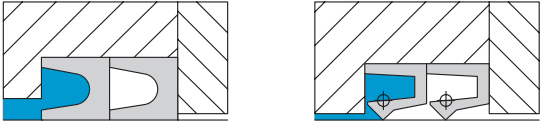


# CUSTOM SOLUTIONS FOR EXTREME APPLICATIONS

We provide custom solutions for extreme applications and pride ourselves on being able to produce pumps individually designed to solve your specific problem. Our team of engineers is ready to work with you on a design based on your requirements. We have seen almost every application in our 90+ years of business and are positive that we can provide you a custom-built solution.



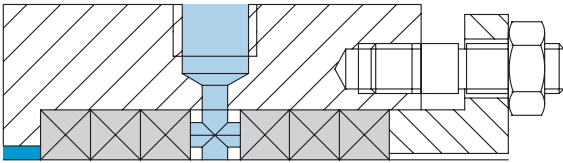
# SEAL OPTIONS



## LIP SEAL

Max. pressure: 16 bar

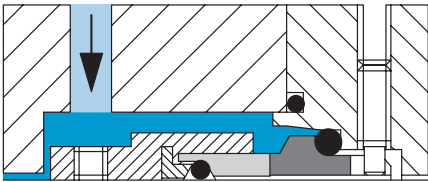
Rubber sealing rings available depending on temperature, pressure and RPM.



## PACKING

Max. pressure: 120 bar

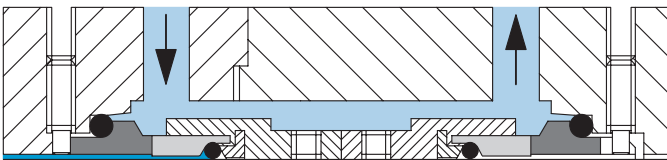
Available with or without sealing/lubricating liquid connection.



## SINGLE MECHANICAL SEALS

Max. pressure: 120 bar

Chosen specifically for customers pumping requirements. The pumps are designed to accept seals from all major manufacturers and can accommodate component or cartridge seals. All pumps are designed to accommodate API 682 mechanical seals and all API seal thermosyphon systems are available.

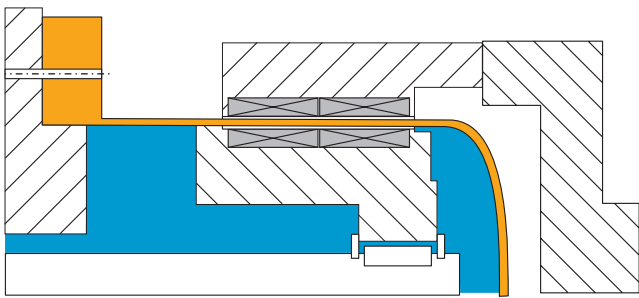


## DOUBLE MECHANICAL SEALS

Max pressure: special seals up to 120 bar

Note: Barrier fluid pressure must be at least 2 bar over pump pressure.

All pumps are designed to accommodate API 682 mechanical seals and all API seal thermosyphon systems are available. Designed for explosive, toxic or specialty applications where no leakage is allowed.



## MAGNETIC COUPLING

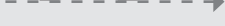
Max. pressure: 90 bar

- Available only for gear pumps
- Results in a hermetically sealed pump with no leakage
- Includes built-in motor overloading protection
- Available in API design
- Maintenance free, no wearing parts

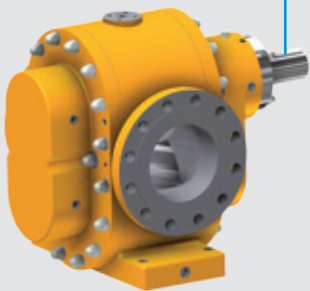
# OUR ADVANTAGES

Zeilfelder's diverse high performance pumps are able to serve all your needs and respond to any challenge.

UP TO 120 BAR



1.2 KM WATER COLUMN



## DESIGNED FOR\*

- Complex and difficult challenges
- Pressures up to 120 bar
- Suction lifts up to 8 m
- Flow rates from 1.5 l/h to 300 m<sup>3</sup>/h
- Viscosities up to 3,400,000 mPas
- Temperatures from -60°C to 450°C
- Dosing (repeat accuracy > 99%)
- Explosive und toxic substances
- Liquids containing solids (up to 90%)
- Liquids containing shear sensitive materials (for example fruits)
- Polymerizing or coagulating liquids

## ADVANTAGES\*

- API, ATEX, TA-Luft and TR CU compliant
- High durability through high-end bearings and special coatings
- Low energy consumption and high efficiency up to  $\eta = 92\%$  through tight manufacturing tolerances
- Dry running capability
- Nearly pulsation free pumping at varying viscosities
- Low rotational speed and gentle pumping because of high displacement/revolution
- Completely reversible flow
- Vertical flow
- Low noise level
- No valves required

## OPTIONS

- All sealing options: lip seal/packing, single and double mechanical seals and magnetic couplings
- Explosion proof
- Heating jacket (steam, oil or electric)
- Heated sealing area
- Fully ceramic pump
- Special materials for extreme applications

\*Depending on the pump type and series



**ZEILFELDER  
PUMPEN**

A BRAND OF  
**ASM  
DIMATEC**



#### Headquarters

ASM DIMATEC GmbH  
Department: Zeifelder Pumpen  
Lehmkuhlenfeld 2  
38444 Wolfsburg  
Germany

T: +49 (5308) 69 38 0  
F: +49 (5308) 69 38 118  
E: [info@zeifelder-pumpen.com](mailto:info@zeifelder-pumpen.com)  
W: [www.zeifelder-pumpen.com](http://www.zeifelder-pumpen.com)

**made in Germany**



ASM DIMATEC reserves the right to make changes at any time without prior notification.

Represented by: