

e.holding

FLUID TECHNOLOGY GROUP



e

endless possibilities.

fluid  
technology  
solutions

## Application expertise in various industries



Automotive



Aerospace



Battery & fuel cell  
production



Chemical &  
petrochemical



Electronics



Food



Hotmelt



Hydraulics



Marine



Oil and  
gas



Pharmaceutical &  
biotechnology



Painting system



Process technology



Renewable energy



Test &  
measurement



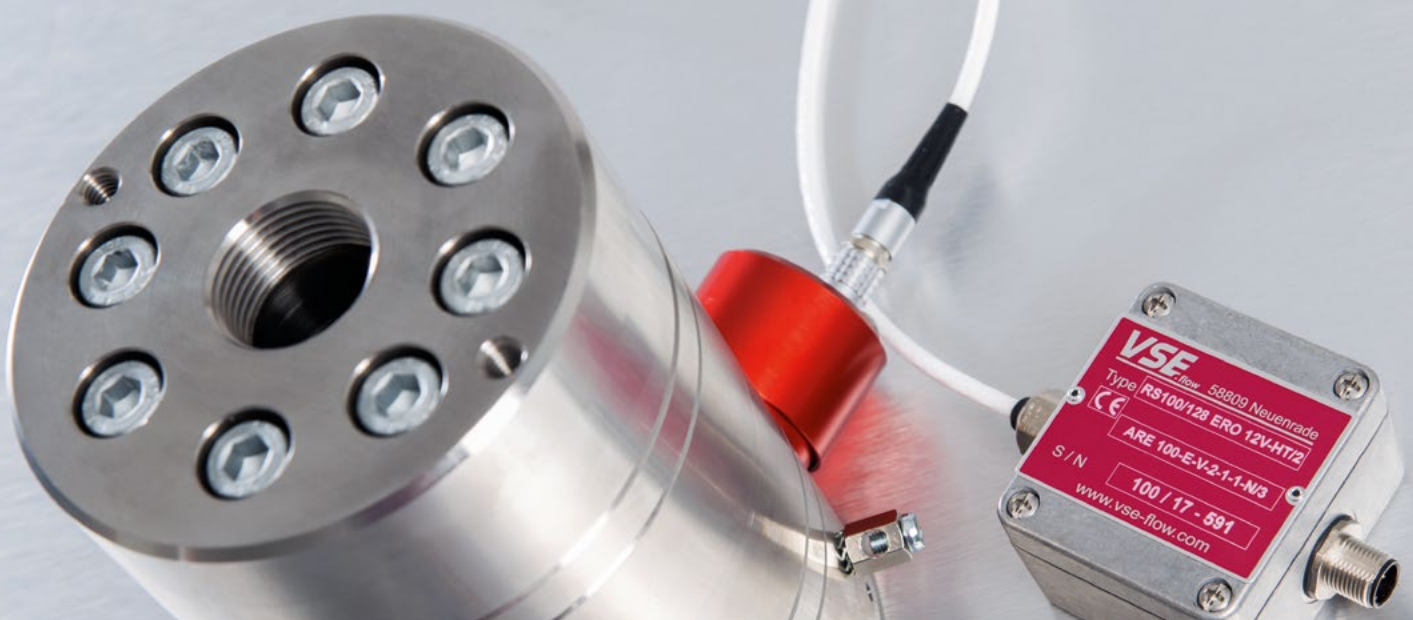
Water



Cosmetics

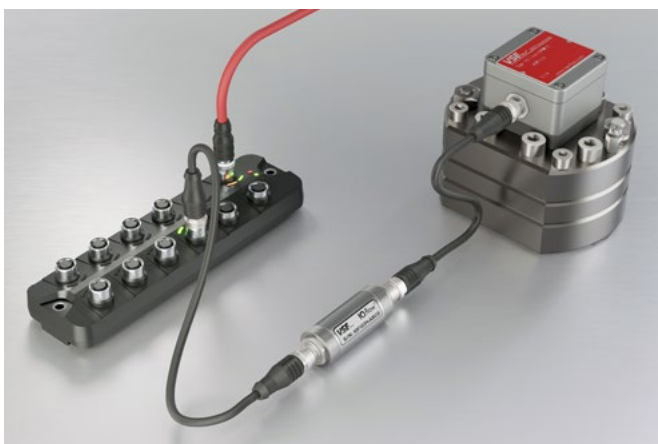


Medicine



# VSE<sup>®</sup>.flow<sup>®</sup>

## Flow measurement technology and corresponding evaluation electronics



### Gear flow meter VSI+

Unbeatable performance, linearity and resolution for the most accurate measurement of viscous fluids.

### Helical screw flow meter RS

Low-resistance, pulsation-free, high-precision measurement with minimal shear, very low pressure losses and excellent functionality based on intelligent sensor technology.

### Helical screw flow meter RS5

High-resolution microdosing with innovative sensor technology.

### Gear flow meter VHM

Specifically for abrasive and poorly lubricating media. They are particularly suited to use in the paint industry owing to dead-space optimisation.

### Gear flow meter VSE EF ecoflow

The lightweight, cost-effective gear flow meters are suitable for low-pressure hydraulics and lubrication systems.

### Turbine flow meter VTR

Flow meters for extremely harsh application conditions in the oil, petrochemical and chemical industries.

### IO.flow<sup>®</sup> Converter

Smart module for integrating flowmeters in IO-Link systems.

### Cal.flow calibration system

Cal.flow enables high-precision flow calibrations according to the reference principle.

### Log.flow data logging system

The portable data logging system enables PC-based recording of various sensor parameters.

### Display devices

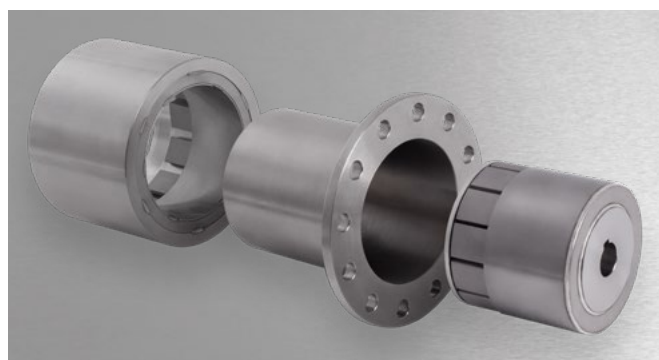
Highest precision for flow monitoring and evaluation.

### Converter

Customised conversion of pulse frequencies.

### VSE EasyLoader parameterisation software

Easy parameterisation through own software.



## Permanent magnetic couplings, calculation and simulation



### Permanent magnetic couplings

DST permanent magnetic couplings are essential for environmentally friendly drive solutions. They enable contactless, wear-free and hermetically sealed torque transmission.

#### Canisters

DST produces canisters of highest standard. The large range of products is available in various materials and covers a broad spectrum of applications.

#### SSiC plain bearings

Predominantly for use in centrifugal pumps, DST produces complete SSiC ceramic plain bearings.

#### Overhead agitator drives

Overhead agitator drives are applied in the chemical and pharmaceutical industries. They are used in reactors or process engineering machines and enable a powerful, safe and efficient mixing process.

#### Bottom-mounted agitator drives

Bottom-mounted agitator drives are primarily used in the food and pharmaceutical industries as well as in process engineering for suspending, homogenising, dispersing and emulsifying various substances.

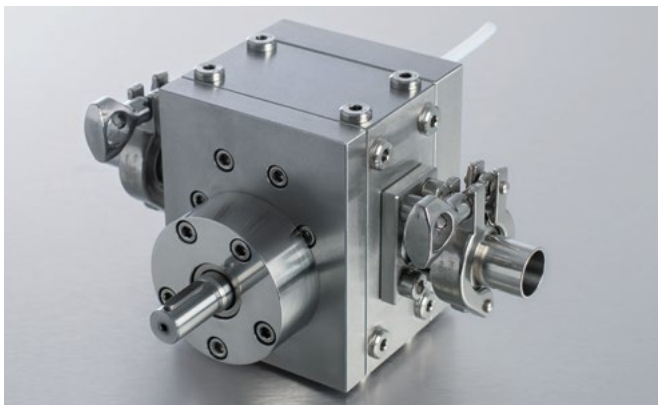
#### Conversion kits

DST offers conversion kits for various applications, including PU machines and compressors, as well as for the chemical industry and hydraulic applications.



# beinlich.pump systems®

## Pump technology



### Dosing pumps

The external gear pumps of series ZPD, ZPDA, ECO.pump, DARTec®, CANNA.pump and CHEM.pump are suitable for dosing fluids and pastes having various viscosities, solids content, delivery amounts and environmental conditions.

### Delivery pumps

The ZPA external gear pumps and the especially quiet ZPI internal gear pumps are used to convey media in hydraulic systems, in cooling or heating circuits, for lubricating machines and, in particular, for bottling in a very wide range of industries.

### Progressive cavity pumps ViSCO.series®

The pumps of the ViSCO.series® product range are designed for a continuous dispensing proportional to speed where high precision is a must.

### Radial piston pumps

The low-noise radial piston pumps TR, TRG, TRD and TRGD are used for a range of media, particularly in the areas of high-pressure hydraulics and high-pressure dosing.



# **HBE** hydraulic components

## Hydraulic components and accessories



### Oil Tanks

Robust oil tanks made from steel, stainless steel, and aluminium offer long-lasting performance and compatibility with diverse hydraulic systems.

### Tank Accessories

The range of tank accessories includes cleaning covers, level oil gauges, filler and breather filters, level switches and desiccant breathers, ensuring optimal tank operation.

### Tank Heaters

Tank heaters with magnetic clamps, screwed-in heaters and pre-heaters are available to maintain the desired oil temperature effectively.

### Bellhousings

To enhance stability and reduce noise, bell housings are complemented by accessories such as foot flanges and damping elements.

### Oil Coolers

The portfolio features oil-air coolers, including the ACI, ACIP, and ACM models, as well as oil-water coolers and bell housings with integrated cooling solutions for efficient heat management.

### SOFTEX® Couplings

Elastic and backlash-free SOFTEX® couplings ensure smooth and reliable power transmission.

### STAREX® Couplings

Flexible STAREX® couplings offer adaptability for coupling applications, accommodating slight misalignments.

### Flange couplings

HBE flange couplings are designed for the most diverse applications of pump drives using combustion engines.

### Selection software

For configuring bellhousings, couplings and accessories as well as for calculating heating capacities, we provide our customers with the appropriate selection software.



## Hydraulic components for pressure monitoring



### Test points

Test points from Oleotec can be installed at any point in the hydraulic system where pressure needs to be measured.

### Micro bore hoses and fittings

The micro bore hoses and fittings can withstand pressures of up to 630 bar and can be installed without tools.

### Pressure gauges

Oleotec glycerine-filled and digital pressure gauges are ideal for pressure monitoring on hydraulic machines.

### DP1 digital datalogging pressure gauges

The DP1-series digital pressure gauges are designed for precise measurement in both stationary and mobile settings, providing real-time display and data logging.

### Test boxes

The test boxes include all Oleotec components: pressure gauges, hoses and corresponding fittings – packed in a plastic or metal case.

### Oleotec Pressure monitoring

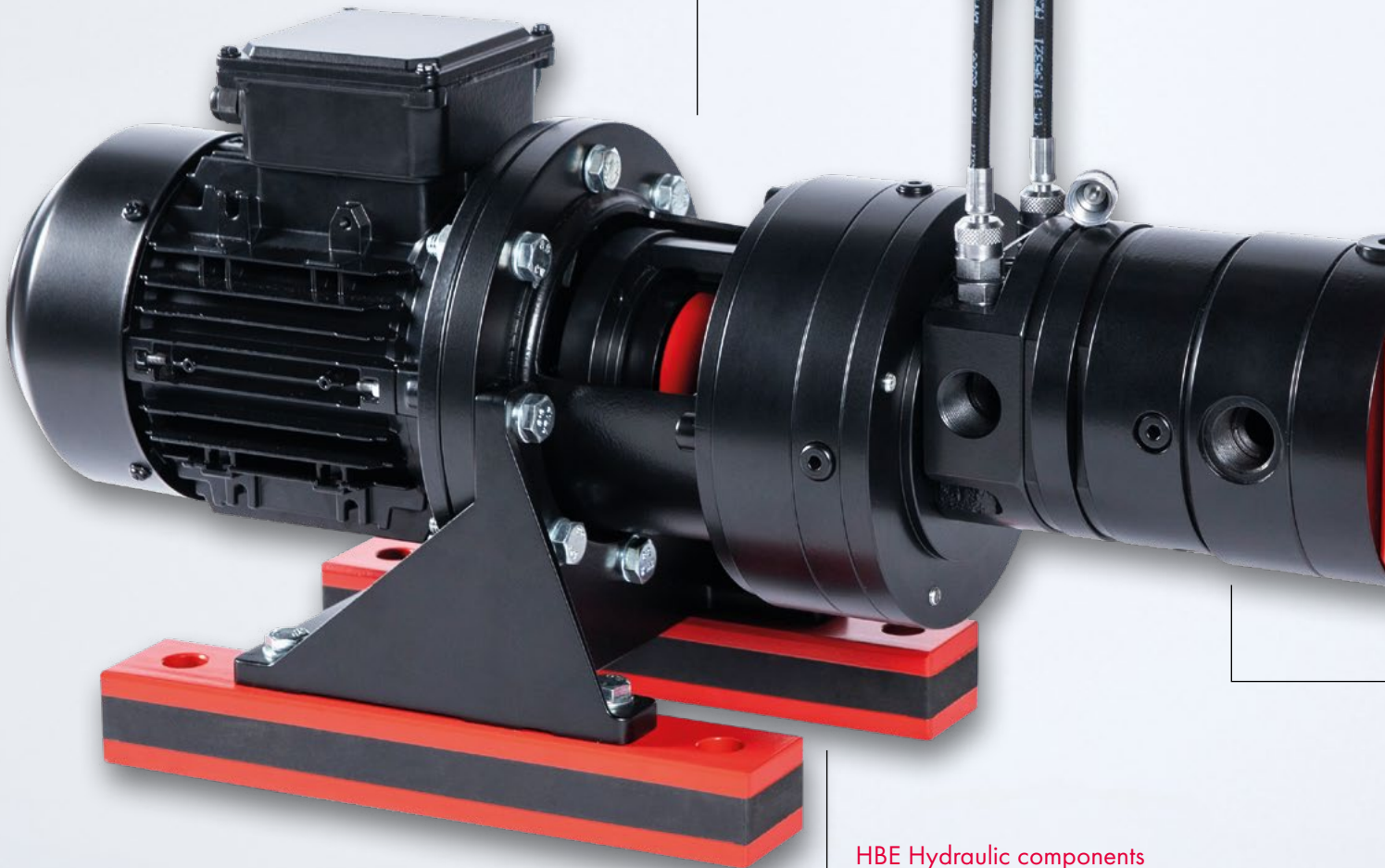
Oleotec offers a comprehensive range of test couplings, hydraulic hoses and pressure gauges for the safe and reliable measurement of pressure in hydraulic systems.

► [oleotec.it](http://oleotec.it)

### DST Permanent magnetic coupling

DST's high-performance permanent magnetic couplings, enable contactless power transmission from the motor to the pump. Leakage-free, wear-free and powerful.

► [mag-couplings.com](http://mag-couplings.com)



### HBE Hydraulic components

Bell-housings (whether rigid or damped), foot flanges and damping rods – HBE offers a wide range of hydraulic accessories.

► [hbe-hydraulics.com](http://hbe-hydraulics.com)

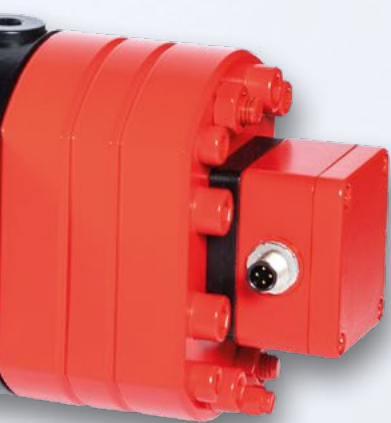


# Fluid Technology Solutions – everything from a single source

With five production companies, Echterhage Holding is one of the leading specialists worldwide in fluid technology. Under one roof, Echterhage Holding combines technical expertise for numerous products and industries. Through close cooperation within the group, customers benefit from:

- Comprehensive support, ranging from initial conception to final implementation.
- Well-founded analyses and targeted optimisations of existing systems.
- Design and development of new systems, units and modules, individually tailored to specific requirements.
- Practical expertise and experience for customised solutions.
- Extensive stockholding to ensure the rapid availability of numerous components.
- Custom-made special designs, precisely tailored to specific needs.

▶ [e-holding.de](http://e-holding.de)



#### VSE Flow meter

The high-precision flow meters from VSE are optimised for customers and applications for precise volume and flow measurement of almost all pumpable media.

▶ [vse-flow.com](http://vse-flow.com)

#### Beinlich External gear pump

Beinlich's versatile external gear pumps are suitable for low-pulsation and exact dosing for applications with the highest precision requirements.

▶ [beinlich-pumps.com](http://beinlich-pumps.com)

**VSE**.flow®

**VSE Volumentechnik GmbH**

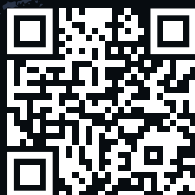
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Phone +49 (0) 23 94 / 616 30  
info@vse-flow.com | vse-flow.com



**DST**.magnetic  
couplings

**DST Dauermagnet-SystemTechnik GmbH**

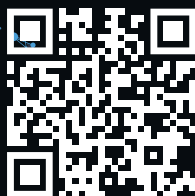
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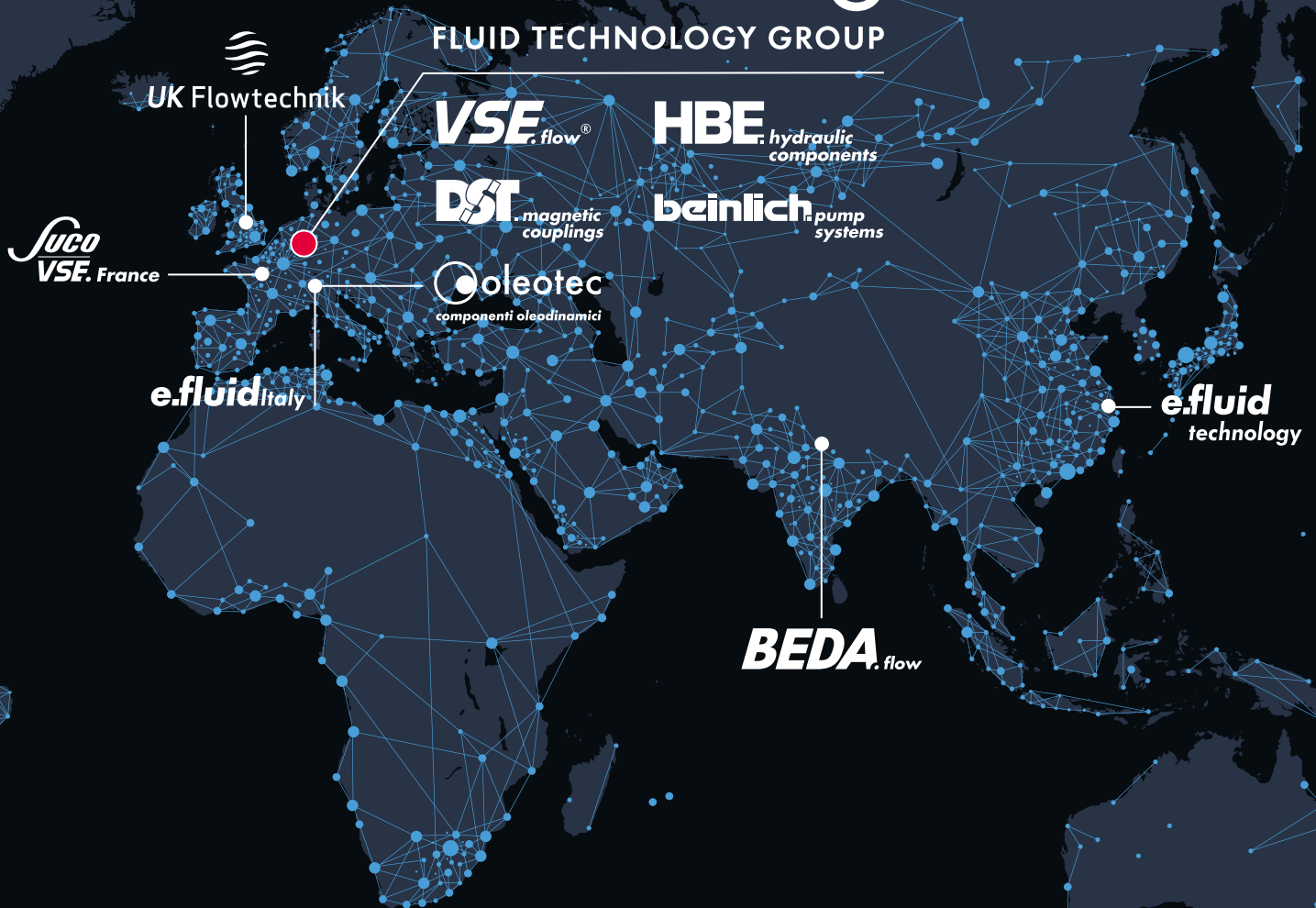
**IC**.flow



# World of fluid technology solutions

**e.holding**

FLUID TECHNOLOGY GROUP



Companies of  
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