

# ***Products and delivery program***

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## ***Control engineering***



- ⊞ **Pressure gauge shut-off valves**
- ⊞ **Pressure gauge small valves**
- ⊞ **Needle valves**
- ⊞ **Ball valves**
- ⊞ **Automatic ball valves with actuator**

Our product range is divided into the following product lines for the most diverse application areas in industry.

### Electronic Pressure measurement technology

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We offer a complete range of electronic pressure gauges:

Pressure sensors, pressure switches, pressure transducers, and pressure transmitters for measuring gauge, absolute, and differential pressure. Our pressure measuring devices are available in measuring ranges from 0...0.6 mbar to 0...2,000 bar. We supply these devices with standardized current or voltage output signals, as well as interfaces and protocols for various fieldbuses.

### Mechanical Pressure measurement technology

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Indicating pressure gauges for gauge, absolute and differential pressure with tube, plate or capsule spring measuring systems, as well as pressure media for many industrial processes, have proven their worth in many cases.

The devices have display ranges from 0...25mbar to 0...4000bar with display accuracies up to 0.25%.

### Control engineering

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Manometer valves, manometer valves according to DIN 16270 and water trap pipes for the installation of various manometers and electrical pressure measuring devices have proven their worth in industry. Furthermore, our sales department offers district heating ball valves from the company Högfors and various versions of manually operated ball valves and automatic ball valves with electric drive for automation.

### Electric Temperature measurement technology

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Our product range includes thermocouples, resistance thermometers (also with on-site display), temperature switches, and analog and digital temperature transmitters for all industrial sectors. Measuring ranges from -200 to +1300 °C are covered.

All thermometers can be supplied with protective tubes according to DIN 43772 or customer-specific standards.

### Mechanical temperature measurement technology

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Mechanical temperature measuring devices operate on the bimetallic, tension, or gas pressure principle with display ranges of -200 °C to +500 °C.

All mechanical thermometers are designed for operation in a separate protective tube, allowing for quick replacement during the operating phase.

### Calibration laboratory / Calibration technology

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For testing measuring instruments, we offer a wide range of calibration devices for the physical quantities pressure, temperature and for electrical quantities.

Furthermore, as a service, we calibrate all types of electronic and mechanical pressure and temperature measuring instruments in our DKD/DAkkS calibration laboratory or on-site.



## Calibration laboratory for mechanical measurements Calibration technology

### Calibration technology

For testing measuring instruments, we offer a wide range of calibration devices for the physical quantities pressure, temperature and for electrical quantities. Furthermore, as a service, we calibrate all types of electronic and mechanical pressure and temperature measuring instruments in our calibration laboratory or on-site.

### Your competent partner in testing and calibration technology

Product quality, operational reliability, and cost-effectiveness are directly linked to the accurate and reliable measurement of process variables. Therefore, entrust the calibration and maintenance of your measuring instruments to a competent partner.

Our calibration laboratory is accredited according to DIN EN ISO/IEC 17025 by the German Accreditation Body Berlin (DAkkS) and is a member of the PRINTING expert committee in the German Calibration Service (DKD).

### Performing a calibration

Before calibration, the calibratability of the devices is assessed, and adjustments are made if necessary. The calibration results are documented in a calibration certificate according to applicable guidelines, and the item being calibrated receives a calibration mark. We calibrate measuring instruments of our own manufacture as well as those from other manufacturers.



Our calibration service offers you an independent calibration service with a comprehensive range of services.



- **Calibration according to EN 17025 for the measured quantity pressure**

In our calibration laboratory, DAkkS calibrations and factory calibrations are performed for the measured quantity pressure, covering a range from absolute pressure to positive and negative gauge pressure from one Pascal up to 6,000 bar.

- **Factory calibration ISO 9001 for measured quantities: pressure, temperature, torque, force, mass, length and electrical quantities**

Accurate and reliable measurements are a prerequisite for any high-quality industrial production.

Measuring and testing equipment is used, among other things, for the quantitative determination of properties as well as for control, regulation and automation in manufacturing.



## PRODUCT RANGE CONTROL TECHNOLOGY

Our product range includes pressure gauge shut-off valves according to DIN standards, small shut-off valves, brass and stainless steel ball valves, steel district heating ball valves, butterfly valves, ball valves with actuator for automation and accessories for measurement and control technology.

### Pressure gauge shut-off valves according to DIN 16260...16263

Serves as a shut-off valve between the pressure line and pressure gauge up to PN 16 bar and max. 50°C.

**execution**

Standard brass with G1/2 thread

**Areas of application**

Heating technology



### Pressure gauge shut-off valves according to DIN 16270...16272

High-quality shut-off valves for installation between pressure gauge and pressure line from PN 250 bar to PN 400 bar and operating temperatures between -20°C and 200°C. They allow for checking or replacing the pressure gauge without interrupting operation.

**execution**

Standard brass, steel, stainless steel

DIN 16270 with clamping sleeve

DIN 16271 with test connection

DIN 16271 with separately lockable test connection

**Areas of application**

Mechanical engineering

Plant construction

Chemical industry

Heating technology, hydraulics, pneumatics



### Pressure gauge-type small shut-off valves

Shut-off device for pipelines and small pressure gauges

**execution**

Brass (standard) or stainless steel with thread or cutting ring connection

**Areas of application**

Plant engineering and district heating technology

Measurement technology



### Needle valves

Shut-off device for pipelines and measuring lines, pressure gauges

**execution**

Stainless steel with thread

or cutting ring connection

Flange connection according to DIN or ASME

**Areas of application**

Plant engineering and heating technology





## Ball valves made of brass and stainless steel

Ball valves for many industrial applications and in Heating system construction. Ball valves with threaded or flanged connections are also available with electric actuators.

### Ball valve design

- Internal thread/internal thread
- Internal thread/external thread
- Flange connection

### Materials

Nickel-plated brass up to pressure ratings PN40  
stainless steel

Areas of application  
all industrial sectors



## Syphons and connecting pipes

Syphons are used to cool a measuring medium and prevent pulsation within the measuring instrument. Condensation forms in the drip tubes, thus preventing the medium from entering the pressure gauge. The syphon drip tubes are selected taking into account the temperature, pressure, and type of medium flowing through them.

### Explanations

in various pipe materials: P235GH-TC1 / P235GH-TC2 / 16 Mo3 / 13CrMo4-5 / 10CrMo9-10 / 1.4571

- U-form DIN 16282 Form A / Form B
- Trumpet form DIN 16282 Form C / Form D
- commercially available versions
- Connecting pipes straight shape & angled shape

Pipe diameters: 1/2, 3/8 and 1/4



## Accessories

The complete fulfillment of customer wishes and the high quality of our products are the benchmarks of our actions. We subordinate all manufacturing methods and processes to this principle. Our constant aim is to create lasting customer satisfaction and convince them of the value of a long-term partnership.

We produce:

- Measuring instrument holder DIN 16281 Form H
- Intermediate pieces DIN 16281
- Connection pin DIN 16282 Form 4 and Form 6
- Clamping sleeves DIN 16283
- Union nuts and weld nipples DIN 16284
- Sealing screws DIN 16286
- Sealing rings DIN 7603 Form A and Form C
- Sealing washers DIN EN 837-1
- Other turned parts according to standards or non-standard parts



## Manufacturing of CNC turned parts

**We manufacture for you:**

**Precision turned parts with outer diameters from 2 to 250 mm  
up to a turning length of 350 mm**

Batch size from single piece to series production  
Regardless of quantity, according to DIN standards, according to sample,  
according to drawing  
from all machinable materials in large, medium and small series

Brass, steel, stainless steel  
Special materials (alloy, Hastelloy, titanium)

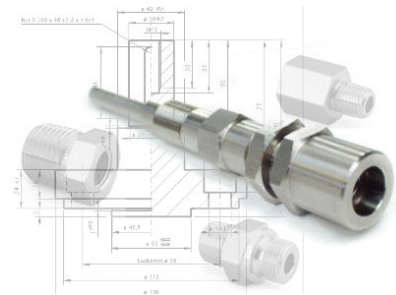
with and without surface treatment  
Assemblies with automated welding and soldering operations

**Deep hole drilling from diameter 2.5mm to 25mm  
for drilling lengths up to 1000 mm**

### Quality assurance

Quality has become a key competitive factor; therefore, our quality assurance includes the quality management system according to DIN ISO 9001:2015 and acceptance tests according to DIN EN 10204:2004.

- Provision of acceptance test certificates according to 3.1 and TÜV 3.2
- Re-stamping certificate, TÜV inspection
- Leakage test and hydrostatic pressure tests up to 1000 bar



***Your partner for the following industries***

- Mechanical engineering and automation technology
- food industry
- Energy generation
- Pipeline construction
- Pharmaceutical and petrochemical industries
- Heating system installation
- Water and wastewater technology



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