CETA Testsysteme GmbH

Solution Partner for industrial Leak Testing and Flow Measurement

Production-integrated leakage and flow testing

Products that are used in environments exposed to moisture or harsh environmental conditions must meet a variety of requirements. These include thightness against dirt and moisture. The requirements are described in the definition of IP protection classes. These IP protection class tests are type tests of samples in the laboratory. But what happens if during the production of large quantities the manufacturing conditions in the production line do not correspond to those of the type sample or change gradually and this has an effect on the tightness of the products?

When leaky products are delivered, it is too late to take corrective action. For this reason, many products are tested for leaks during production. This ensures the **quality of each individual product.**

Test medium compressed air

For more than 35 years CETA Testsysteme GmbH has been working with great success as a solution partner and manufacturer of physical test devices. These devices are used for industrial leak tests and flow measurements for 100 % routine testing in the production line. Compressed air is used as test media. This test method can be integrated into the assembly line in a process-safe manner.

Highest product quality

The test devices (Made in Germany) are in-house developments. Important components and accessories (e.g. calibration standards) are also manufactured in-house. This meets the high demands on the quality of the internal modules. Extensive tests before delivery ensure the high quality of the test devices. An integrated monitoring of the correct device function guarantees a special degree of process reliability. The test devices are equipped with a 3-year warranty period, which impressively underlines the high quality and reliability.

Wide range of applications

A comprehensive range of testing equipment allows the right solution to be found for practically any testing application. The test devices are used by the customer for quality assurance, quality control and production assurance in the assembly line or at the individual test station. The customers are mainly from the automotive, e-mobility, medical technology, heating, air conditioning, energy, taps and fittings, household appliances, security technology, defense, and packaging industries.

Competent project management

Every project begins with a project clarification. The technical feasibility of each project is checked (in some cases also on the basis of measurements with the customer's test parts), the technical configuration of the test device is selected and the number of test devices required in the production line is determined. When the offer is submitted, the feasibility is confirmed under the previously agreed conditions. This gives the customer the certainty that the solution offered will work reliably in practice.

Consistent focus on quality

The company is certified according to DIN ISO 9001 and won the NRW Quality Award in the industry sector in 2002. The calibration laboratory was accredited in 2004 by the German Calibration Service (DKD) for the measurand pressure. In 2014, the accreditation was carried out by the German Accreditation Body (DAkkS). In 2023, the accreditation was expanded to include the measurand flow of gases.
The DAkkS-accredited calibration (conforming to the standard DIN EN ISO/IEC 17025) meets the requirements of the standard IATF 16949, which is valid in the automotive industry. CETA Testsysteme GmbH is the first German manufacturer of leak testers to deliver its test devices with a DKD calibration certificate as standard since 2004 and now with a DAkkS-accredited calibration certificate. Since 2012 CETA has been certified with an „excellent credit rating" throughout.

High customer satisfaction

CETA customers appreciate the longevity, the high quality of the test devices, the on-time delivery, the longtime experience and high competence in the solution of applications and project management. Due to the high customer orientation it becomes more and more obvious that CETA is consulted in a very early phase of the product development.

Worldwide use and international representations

With international cooperation partners in China, India, Indonesia, Mexico, Poland, Portugal, Singapore, Thailand, Czech Republic, Turkey and Hungary as well as several thousand test devices used worldwide, CETA Testsysteme GmbH presents itself as a competent solution partner for industrial leak and flow testing.

Typical applications

With the CETA product portfolio a multitude of applications can be handled.

Leak test	**Application**
Directly fillable test parts	Gearbox covers, containers, headlamps
Encapsulated components	Microassemblies, sensors, watches, lights
Internal and external tightness	Coolers, ball valves, gearboxes
Pressure rise	Valves, coolers, heat exchangers
Flow test	**Application**
Flow	Cooling channels, membranes, exhaust systems, pressure compensation elements, valves, pipes
Mass flow testing	Large-volume test parts with low leakage rate
Continuity test	Pipes, valves
Dimensional accuracy	Cross sections of pipes and cables
Pneumatic tests	**Application**
Existence tests	Assembly control
Pressure tests	Pressure test, multiple pressurisation
Function tests	Opening points, closing points
Volume determination	Adaptation control, error prevention „Poka Yoke“

Our strengths

- Testing technology „Made in Germany“
- Test medium compressed air
- More than 35 years of experience
- Several thousand test devices worldwide
- Excellence Made in Germany - Certified Company
- High-grade product quality
- Comprehensive project support
- International representatives
- Excellent credit-worthiness
- DAkkS-accredited calibration laboratory
- 3 years warranty

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