



Original Equipment Manufacturer

Delivering Steam Solutions to
you and your customers



Engineering steam performance

Delivering customer value

Gestra has more than 100 years of experience in delivering products to support safety and efficiency. As a provider of total steam solutions we are constantly striving to add value by ensuring you have the support and technical solutions required to optimise your equipment performance.

Supplying solutions to a broad range of OEMs and focusing our expertise on these sectors means we can add value by:

- Delivering a safe solution according to actual standards and a full understanding of user applications
- Supporting an energy efficient power supply that increases boiler lifetime and reduces energy and maintenance costs
- Maintaining our status as a globally recognised brand that is highly valued by the steam user market, which in turn can add additional value to your equipment



General Industrial



Pharmaceutical



Oil & Gas



Energy



Chemicals

How can we help you?

Safety first

We provide you with the safest solutions for your applications. Our functional safety management has helped us to develop and produce the safest devices you can get. Devices that increase the value of your solution making sure your customer can run it safely.

Optimising your solutions

We can help maximise the performance of your solutions whilst ensuring design specifications and local regulatory requirements are met. With over 100 years' of steam experience, you can rely on us to take care of all your steam system needs.

Outstanding quality and easy usability support commissioning and installation at your product destination

You could sell your solution world wide or to the next town. Our solution supports you by commissioning in your factory and later by installation at customer site.



Optimising your solutions

At GESTRA we recognise that the reliability of your equipment is of the upper-most importance. This is why quality and reliability is at the heart of our products and solutions.

All products are developed using a stringent stage gate product development process. Dedicated research teams ensure our products and solutions are innovative, industry leading and deliver maximum value to you and your customers.

Our expert sales engineers can support you and your customers with their in-depth steam engineering knowledge, allowing them to provide you with effective solutions using our unrivalled range of products.

This approach allows us to offer outstanding customer value, ensuring you satisfy the needs of your customers and optimise their equipment's steam system performance.

Our design and engineering capabilities

We don't just provide products. We can provide you with industry leading engineered solutions that save you time and money during your design, procurement and production phases.

Our solutions are designed to:

- Meet local and global regulatory requirements for your end user industry and market
- Meet all global certification requirements
- Provide system components that fit within your existing designs



Engineered to order solutions

As a solutions provider, we understand you may require engineering changes to our standard products, or the development of engineered systems designed to meet your specific needs. Therefore, we work with you to provide customised solutions, where options may include:

- Design
- Configuration
- Design changes

Connection variants

- Flange and connection changes

Product finishes

- Plating
- Specified paint colour or unpainted



Engineered Systems, Assembly, Test and Packaging

- Loose assembly
- Certification packs to match specific requirements
- Cold water hydraulic testing
- Dye penetrant inspection testing
- Non-destructive testing
- Cut-sections
- Inspection
- Labelling/tagging
- Packaging
- Sub-assemblies
- Packages

Typical applications:

BOILER
Level control
Level limiter
Total dissolved solids measurement
Blowdown solutions
Turbidity detection
Energy monitoring
Remote monitoring
PHARMACEUTICAL
Temperature control
POWER
Turbine drainage



Safety first

We support you in making your customer's system safer.

Your customers won't accept an unsafe system

Whatever the price a new boiler is, customers won't accept an unsafe system. GESTRA's solution supports you by reaching that target.

Functional safety management supports you

Our functional safety management is a process to reduce human mistakes to an absolute minimum. The advantage for you is if a failure happens the system fails safe.

Improving your system by using SIL rated systems

Our boiler controls have been developed in accordance with IEC 61508. That means during the development process a third party is involved in the processes and the development to ensure all rules are followed.



Solutions and SIL level

We can help you streamline your design process and make your system safer.

GESTRA systems and SIL level

Low level limiter – SIL3

High level limiter – SIL3

Temperature limiter – SIL3

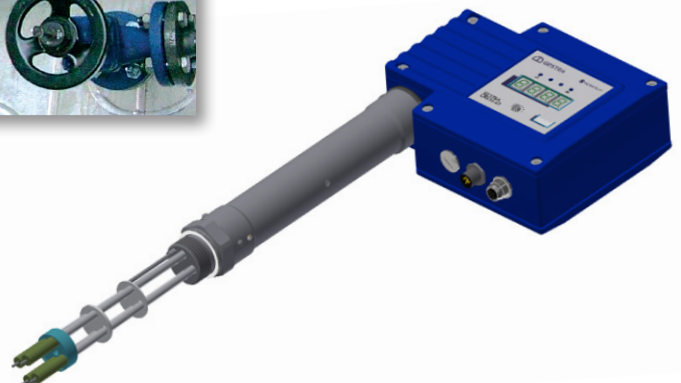
Continuous level measurement – SIL2

TDS measurement – SIL2

TDS Limiter – SIL2

Benefits to you:

- Self-monitoring solution requires no manual action on safety devices
- SIL values in product documentation supported by calculating safety chain



OEM Steam Solutions

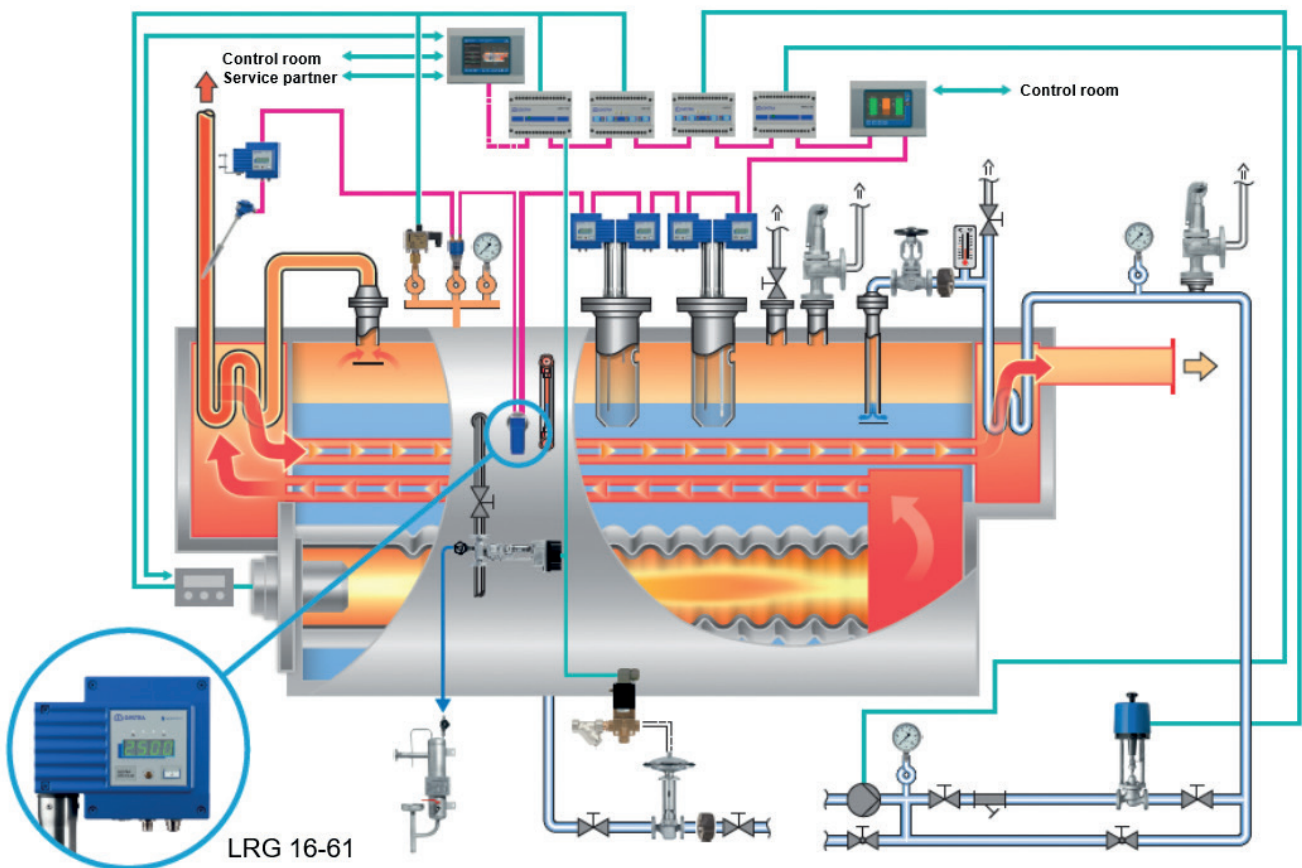
Outstanding quality and easy usability support commissioning and installation at your product destination

For over 100 years we have partnered with our customers to achieve a high level of steam system reliability.

We are able to provide you with a sustainable, reliable and quality solution that:

- Is easy to install
- Improves your commissioning and production process
- Supports your global after-market requirements no matter where you and your machines are in the world





The highest standards in design and manufacturing

We design our products to ensure they meet many local design standards, such as:

- ✓ CRN
- ✓ AD2000-HP0
- ✓ EAC
- ✓ ASME

All our products are manufactured to stringent quality management systems with full international and local regulatory compliance that include:

- ✓ QMS - BS EN ISO9001
- ✓ EMS - BS EN ISO14001
- ✓ H&S Management Systems – OHSAS18001
- ✓ Pressure Equipment Directive modules
- ✓ ATEX IECEx Management Systems
- ✓ Functional Safety Management System

- ✓ DIN EN 61508

- ✓ AVS D 100/50

- ✓ REACH & RoHS

- ✓ KTA1401

- ✓ 100% production product testing on all products

An extensive product portfolio

We can be your single source of products and provide:

- A broad product range that supports improvement in your design
- Solutions to cover all of your operating conditions and application needs
- Sustainable solutions to increase efficiency

Sustainable supply chain

We are working with our suppliers to ensure the sustainability of our supply chain. We have embedded sustainability criteria into our purchasing processes and expect high standards from our suppliers.

Our Supplier Sustainability Code specifies that our suppliers must not use forced, bonded or non-voluntary labour, should establish recognised employment relationships in accordance with national laws and exercise clarity in relation to wage levels. Suppliers must ensure their activities are safe for the health of their employees, contractors, the local community and users of their products, and

they must pro-actively prevent work-related injuries and illnesses through identifying, evaluating and limiting or mitigating risk.

We expect our suppliers to work within the laws of their country, conduct business free from bribery or corruption, and adhere to the UN Guiding Principles on Business and Human Rights, as well as the Core Conventions of the International Labour Organisation. Our suppliers are also expected to take steps to mitigate their environmental impacts, improve product quality and source responsibly.



Modern slavery and human trafficking

We pride ourselves on setting high standards for sustainable and ethical business practices in all our operations worldwide. Included in those high standards is a commitment to respecting and protecting the human rights of all individuals, and combating all forms of modern slavery or human trafficking in all parts of our business organisation, including our supply chain. We are continually developing and improving our business practices and policies in line with that commitment. We support a strong, collective stand to identify, prevent and raise awareness of modern slavery and human trafficking practices in all parts of the world.

Product responsibility

Our robust research and development practices ensure that our products are safe for our customers to use, manufactured using ethically sourced raw materials, are as environmental friendly as possible and deliver outstanding in-service performance. We incorporate sustainability factors into our product design processes, including energy efficiency, emissions, serviceability, recyclability and the availability of compliant and ethically sourced materials, avoiding the use of hazardous materials.



Sustainability

As the world around us rapidly changes, here at GESTRA we pride ourselves in working with our customers to improve their energy efficiency and meet their sustainability targets.

Our 120-year legacy has always championed German design and German quality, maximising both operational reliability and sustainability – and our vision for the future remains the same.

Working as one with the Spirax-Sarco Engineering group brings life to our One Planet: Engineering with Purpose Strategy, providing a roadmap towards a more sustainable future as many businesses hope to achieve their net zero goals and reduce carbon emissions between now and 2050.



As it stands, sustainability and energy efficiency remain key drivers in boiler replacement initiatives across the world. According to the 2021 International Energy Agency tracking report, the industrial sector accounted for 38% of total global energy usage, with thermal energy (used for heating and cooling) representing 51% of total energy usage in industrial processes; the majority of which are supplied by fossil fuels. This has caused many governments around the world to review their boiler operation regulations and impose sanctions for those who do not comply. It is important to GESTRA that we stay ahead of the curve and continue to support our customers in tackling these challenges head on, highlighting how steam can help to bridge the gap towards a more sustainable and energy conscious world.

The changing landscape around us means we must adapt, and steam systems are a primary area of focus for many businesses in the pursuit of achieving net zero. Our consultative approach and purpose-designed solutions can assist you in supporting your customers to understand the potential of their sustainability journeys and fulfilling their pledge to the planet.

Our solutions designed to improve sustainability communications:

Boiler Level Control Equipment	TDS Control & TDS Blow-down	Boiler Bottom Blow-down	TDS Heat Recovery
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References: International Energy Agency tracking report (2021) | Markets Business Insider, The World Market for Industrial Boilers (2019)





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