



Spirax Sarco Services

Maintaining steam systems for peak performance

First for Steam Solutions

EXPERTISE | SOLUTIONS | SUSTAINABILITY

spirax
sarco

Steam systems may not be your core business, but they are ours...

There will almost certainly be times when you'll need to look outside your organisation for the right people and specialist skills to build a new steam plant, extend your existing system to meet changing needs, or even to keep your system at peak performance. That's why it makes sense to take advantage of our expert capabilities and extensive resources to make your life easier. Our steam system audits, for example, focus on your key business demands, whether energy saving, environmental performance, safety and regulatory compliance, or something else.

From a straightforward steam trap survey to project managing a complete new build, our experienced project teams will tailor services to deliver the best return on your steam system investment. We won't try to impose services on you that you don't really need and they will be delivered flexibly, as required. That could mean anything from a one-off project right up to experts working permanently on a large site to support ongoing operations.

We also offer 24 hour telephone access to technical support and guaranteed response times according to set service level agreements. You will benefit from improved plant availability, lower energy use and faster project implementation whether for a new plant or by making the most of your existing steam system investments.



Service maintenance support

Service contracts

Having invested in new plant or in a programme to improve your steam system to bring it up to its best operating efficiency, you'll want to keep it that way. Often, the most cost-effective way to do this is to outsource some or all maintenance work to us through a service contract.

A service contract may last from as little as one to five years, or as long as the life of the equipment. It can comprise a tailored range of planned maintenance services - you choose what you want to match your budget and needs. Spirax Sarco's equipment service contracts offer intrusive and non-intrusive in-situ overhaul of ancillary steam engineered components.

Unplanned service call-out days outside of the contract will be quoted at a preferential rate with priority booking. The provision of genuine original equipment manufactured consumables and components can also be incorporated.

We offer a range of service contracts including:

- Boilerhouse
- Controls
- EasiHeat™
- EasiHeat™ extended warranty
- Extended warranty available on a range of products*
- Humidifier
- Metering
- Plate heat exchanger cleaning
- Steam system conditioning
- 24 hr-priority response cover
- Multi-product - encompassing all of your Spirax Sarco equipment
- Valve reconditioning

** Please contact us to find out more*

Benefits of our service contracts for assured preventative maintenance include:

- ▶ Ensure smooth and efficient plant operation
- ▶ Reduce the risk of breakdown and costly downtime
- ▶ Maintain the highest levels of performance for reduced operational costs
- ▶ Adhere to health and safety requirements

Installation and commissioning

Specifying the right equipment for your system is critical, but if installation and commissioning are not undertaken accurately, plant performance can fall short.

We always provide comprehensive installation and commissioning instructions that your engineers can follow. However, if you lack the experience, resources or time to do the job in house, we recommend you take advantage of our commissioning services. This is an option available with the purchase of all of our equipment, either a single engineered component or fully managed turnkey projects.

Monitoring, energy and compliance

Steam trap surveys and management

Surveys can cover a wide range of equipment including steam traps, high limit control equipment and condensate pumps. Our most popular survey is the steam trap survey, which will provide you with a detailed report, laid out in an easy to read format.

The report will identify practical ways of optimising steam trap performance to help keep your system running economically and at peak performance, whilst showing the savings to be achieved. The report will also highlight other areas we have observed during the survey that are potentially causing your energy losses and of efficiency.

Once the survey is complete and your steam trap population is brought up to peak operating efficiency, our steam trap management service can save you money and effort by taking responsibility for keeping your traps running at maximum efficiency year after year.

Benefits of using our installation and commissioning service include:

Rapid implementation of survey recommendations

Avoiding the cost of delay



Capacity management

No need to take valuable team members off core functions to complete the installation



Reduced risk

Installation handled by experienced specialists to avoid post installation problems



Quality procedures

We perform quality checks as part of the installation so you have the reassurance that these procedures are covered and documented



Reduced time and cost

Experienced installation teams ensure minimal downtime



Clear reporting /accounting

The whole process is clearly and concisely documented



Benefits of our steam trap surveys and management:

Performance measures

Gain a detailed picture of your system efficiency



Valuable management information

Provided through the asset list



Energy optimisation

Areas for energy optimisation identified



Simplified investment decisions

Justify improvements with an assessment of payback and benefits



Health & safety compliance

Provides the peace of mind that your steam traps are operating safely



Flexibility

Choose the surveys and services to match available budget and business objectives



Valve reconditioning

Have you recently purchased a replacement valve? Are you looking for a full valve overhaul, repair and pressure testing service? Having your replaced valve repaired would give you a spare on site, especially if it is a critical process, giving you peace of mind.

The refurbishing of valves is performed in our dedicated and fully equipped workshop, enabling us to calibrate and recertify your valves.

We can recondition a wide range of valves, including:

- ▶ Control valves
- ▶ Gate valves
- ▶ Globe valves
- ▶ All other manual valves
- ▶ Parallel slide valves
- ▶ Safety valves*

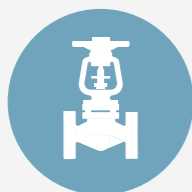
**Many insurers require these to be done annually on boilers and bi-annually on other pressure related equipment.*

We can also provide an on-site valve refurbishment service in some locations.

Benefits of our valve reconditioning service:

A cost-effective alternative to replacing parts

A wide range of valves refurbished through a single supplier and easier on your budget than replacing with new valves



Helps you maintain maximum uptime

Improving your system efficiency and reducing the risks of downtime



Quick to repair/replace

We can refurbish your valves either on or offsite and our valve replacement service keeps your system running



Ensures your compliance with industry regulations

Including the Pressure Equipment Regulations 1999 and the Pressure Systems Safety Regulations 2000



Adheres to your health and safety requirements

Reduces the risk of failure and provides evidence of compliance through certification



Steam system audits

Each steam system audit is tailored to your budget and requirements, whether that's energy efficiency, carbon minimisation, health and safety or achieving best practice in operations. Audits range from a check-up for a single plant room to benchmarking an entire steam system, from the water treatment plant right through to process applications and condensate return.

Following the on-site work, a detailed and comprehensive report is produced and presented back to you. Surveys are typically part of the audit process and may also be recommended in an audit's report.

Benefits of our steam system audits include:

- ▶ Identify achievable energy savings with calculated return on investment
- ▶ Highlight health and safety shortfalls
- ▶ Detection of water treatment issues such as corrosion and scaling
- ▶ Recommend productivity improvements
- ▶ Advice on good engineering practice
- ▶ Steam generation efficiency and thermal energy audit



Steam quality testing

Manufacturers are legally bound to ensure the quality of the final product by identifying potential hazards and controlling them, typically using a HACCP approach. Do you consider steam to be part of this process?

Discover how to keep your steam supply in top condition with our Steam Quality Testing service.

The scope of the service includes:

- Measuring dryness value and dryness fraction to assess steam wetness and its suitability for the steam plant being supplied
- Measuring the level of incondensable gases in the steam
- Monitoring of steam pressure and temperature to find potential problems with peak loads or other steam supply shortfalls
- Inspecting the physical steam system and its operation, from boiler water treatment to condensate return
- Issuing a steam quality certificate and a full report with recommendations for maintaining or improving steam quality to raise operating efficiency of the entire steam system

Benefits:

- ▶ Comply to requirements of EN285, HTM 2010, CFPP & food safety
- ▶ Eliminate wet or dirty steam in your system
- ▶ Cut your energy costs
- ▶ Improve productivity and product quality
- ▶ Reduce maintenance workload



Boiler water treatment servicing

The right boiler water treatment is important to minimise scale formation and corrosion. Ineffective water treatment can reduce the life of plant and can even lead to a catastrophic failure.

Spirax Sarco's fully comprehensive boiler water treatment service provision is inclusive of chemical supply and pre-treatment equipment servicing, helping you to prolong the life of your boiler and steam system.

Benefits:

- ▶ Reduce energy costs
- ▶ Increase efficiency
- ▶ Increase steam quality
- ▶ Help you operate a more reliable steam system



Boiler preparation services

Spirax Sarco can prepare your boilers for non-destructive testing (NDT) and help you prepare for the mandatory annual insurance inspections of your steam boilers and pressure vessels. Our engineers strip down control and other equipment to ensure inspectors can access the boiler properly.

Benefits:

- ▶ Be confident that your boiler annual insurance strip down preparation and rebuild is in the hands of expert engineers
- ▶ Free up time for site based engineers to concentrate on other critical functions
- ▶ Valve certification and pressure testing can also be incorporated into this offering giving you complete peace of mind





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