

# PRODUCT HANDBOOK 2022

## VOLUME 1



*First for Steam Solutions*

EXPERTISE | SOLUTIONS | SUSTAINABILITY

**spirax**  
**sarco**

**2022/12**



# PRODUCT HANDBOOK 2022

## VOLUME 2



*First for Steam Solutions*

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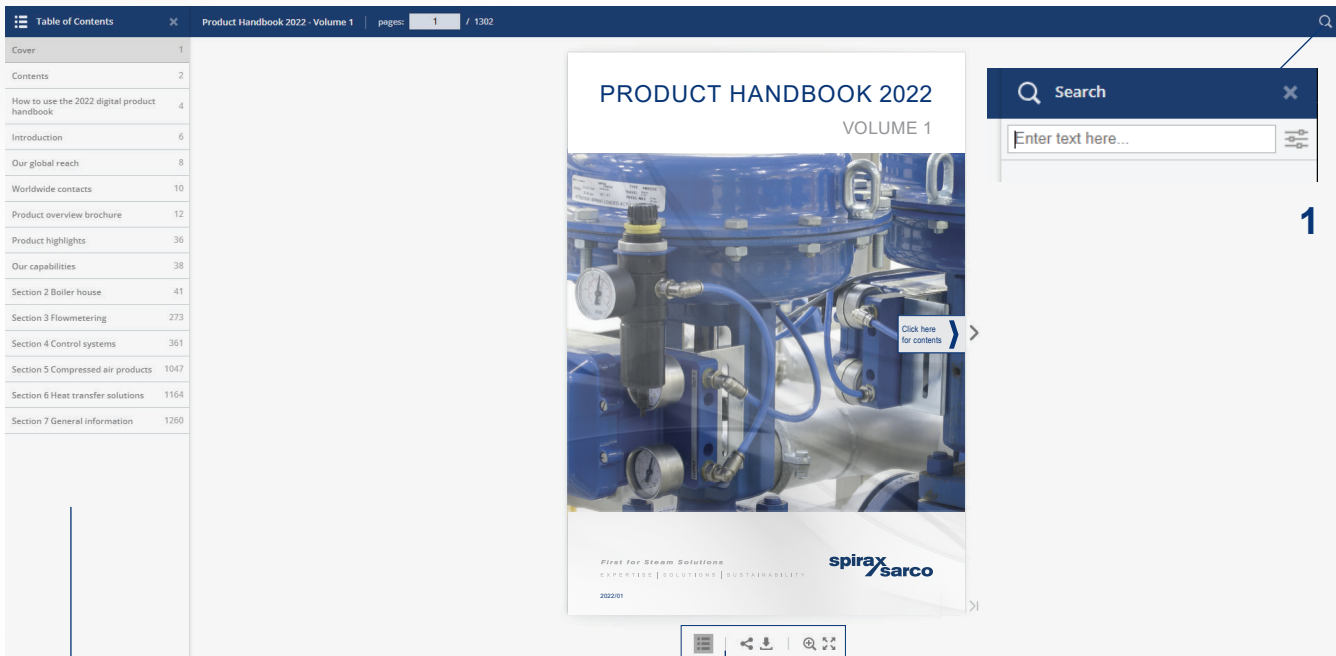
2022/12

**spirax**  
**sarco**





# How to use the 2022 digital product handbook



## Table of contents

These should be left on before continuing into the Product Handbook



## There are various options to look through the handbook:

- Left click the arrow on the right or left hand side of the pages.
- Use the buttons below

### 1 Search function

To search for an item use the text field at the top right of the screen and enter a Spirax Sarco product name or reference number.

You will often get more than one result, this is because all the instances are listed.

By selecting any entries in the list, you will jump directly to that document, with the word you searched for highlighted.

(Note: please do not use spaces between nomenclature .i.e. type PN1000 rather than PN 1000 and when typing a reference number please use hyphens i.e. P612-14).

### 2 Table of contents

These should be left on before continuing into the Product Handbook.

### 3 Download

This option allows you to download single pages

### 4 Magnifier tools

This enables you to zoom in and out of the page for closer detail. There is a zoom bar at the bottom.



# Introduction

The Spirax Sarco Product Handbook contains the technical information for our most popular range of products for steam and other industrial fluids. You can search for products by product nomenclature / name, product range and by document number.

As well as the products, many Spirax Sarco companies can supply further products or services on request. These may include steam trap surveys and complete packaged solutions which can provide you with plant automation. If the product or service you need is not listed in this handbook, contact your local Spirax Sarco sales company representative.

The documents shown are for initial specification purposes only. Safety information together with installation and maintenance instructions are provided with every product supplied. Consult your local Spirax Sarco office if you require help in correctly selecting your product.

The latest technical information is available for our full product range on spiraxsarco.com. The website also offers other practical information, such as the Steam Engineering Tutorials, which provides useful advice on the design and maintenance of steam and condensate systems, and other resources such as a Unit Conversion Calculator and Steam Tables, to help you with day-to-day engineering calculations.

Please note that this is an international publication and not all products are available in all countries.



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Some of the products may not be available in certain markets.  
Local regulations may restrict the use of the products shown to the conditions quoted.  
In the interests of development and improvement of the product, we reserve the right to change the specification without notice.



**Spirax Sarco**  
the products  
for steam and related  
industrial fluids

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**sarco**





At Spirax Sarco, we aim to be the first choice provider of efficient solutions in the use of steam and related industrial fluids.

***First for Steam Solutions***

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## We aim to be the first choice provider through use of our **collective expertise**

With over 100 years experience in steam, condensate and related fluid systems, we are able to help our customers effectively solve their problems and improve the effectiveness of their plant.

1.4

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We have over 5,000 employees across 38 operating companies worldwide. Our philosophy is to use our knowledge and experience to help our customers reduce costs by improving process efficiency and saving energy.

## We aim to be the first choice provider by having a **comprehensive product offering**

From the most sophisticated packaged system to the smallest pressure gauge, Spirax Sarco is able to provide the largest product choice, within its area of expertise, to the widest geographic area. This extensive range of products isn't just limited to the steam and condensate loop but covers applications in most related industrial fluids. Our product offering enables us to provide total solutions for our customers.

## We aim to be the first choice provider by **offering the right solution for our customers business**

We fully appreciate today's demands on our customers. Our aim is to solve their plant problems and provide fully integrated solutions tailored to their business – everything from a simple product replacement right through to a major turnkey project. In providing this comprehensive support we allow our customers to focus on their core business.

**It is the combination of expertise, comprehensive product offering and our worldwide capability as a solutions provider, that makes Spirax Sarco an unequalled business partner for our customers.**



# Contents

## Complete integrated solutions 06

Packaged heat exchangers, product assemblies, system audits, design, installation, maintenance and project management.

## 1.4 4 Boiler controls and systems 10

Feedtanks, level controls and alarms, feedpump check valves, boiler blowdown valves, TDS control systems, steam injection systems, sample coolers, heat recovery systems, conductivity meters, condensate contamination detectors, blowdown vessels and vent heads.

## Flowmeters 12

Variable area flowmeters, orifice plates, flow computers and display units.

## Control systems 13

Pneumatically/electrically actuated two-port and three-port valves, positioners, programmable electronic controllers, pneumatic transmitter controllers, pressure reducing valves, surplussing valves, safety valves, self-acting temperature control valves and high limit temperature cut-outs.

## Steam traps 16

Thermodynamic, ball float, balanced pressure, inverted bucket and bimetallic steam traps, sealed and quickfit steam traps, Spiratec steam trap performance monitors and steam trapping stations.

## Condensate pumps and energy recovery 18

Automatic steam (or gas) powered fluid pumps, pump-trap combinations, electric powered condensate recovery units and flash steam recovery vessels.

## Humidifiers 19

Direct steam injection humidifiers and Hygromatic self-generative humidifiers.

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High purity products

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Steam generators, stills, temperature controls, pressure controls instrumentation, steam traps, sample coolers, ball valves, separators and filters.

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Pipeline ancillaries

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Manifolds, separators, bellows sealed stop valves, check valves, diffusers, piston actuated isolation valves, strainers, sight glasses, pressure gauges, air vents, vacuum breakers, hosedown stations, ball valves and compressed air filters/regulators/lubricators.



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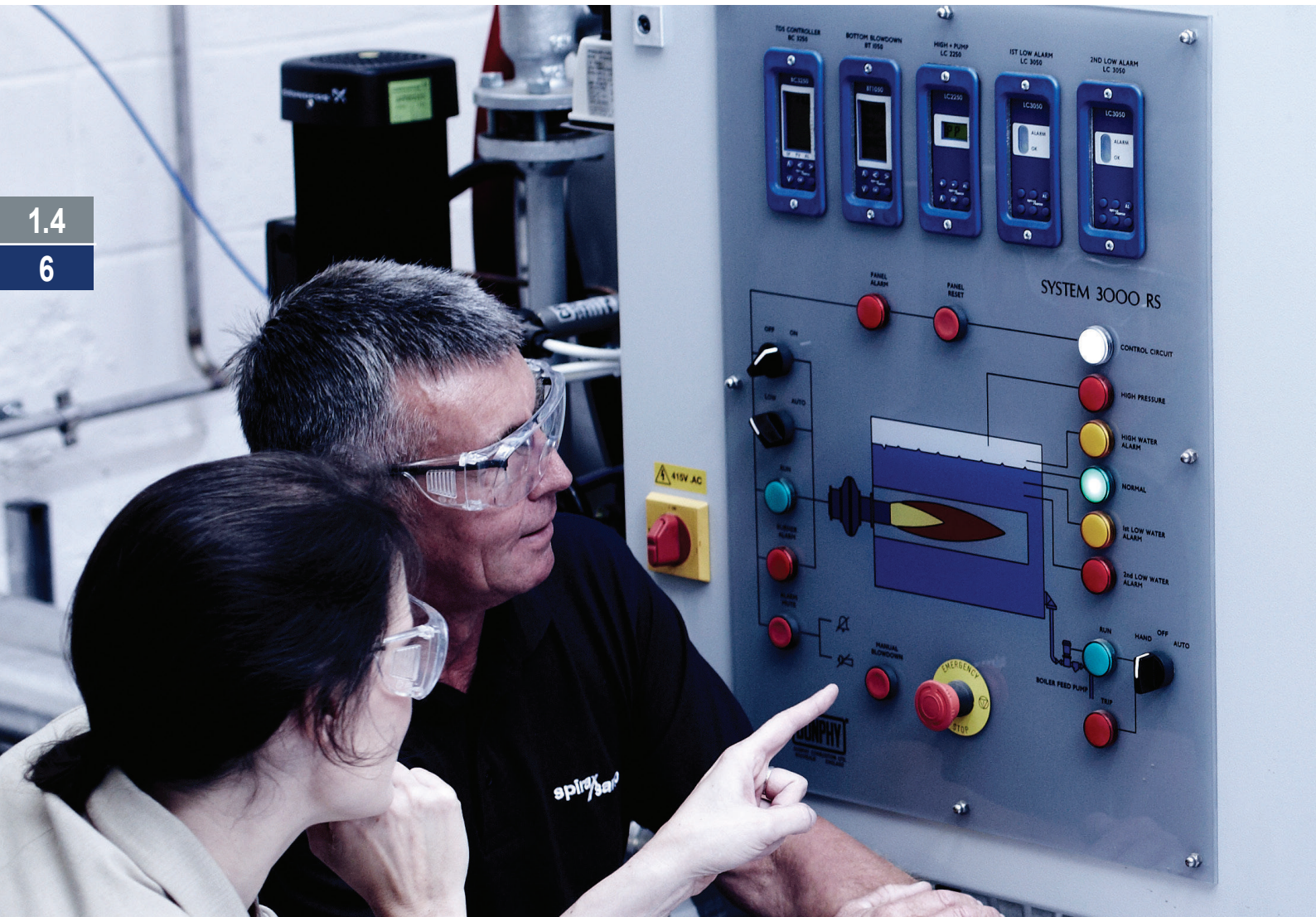


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1 Product overview

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Customer focused solutions partner



Ready assembled control systems



System audits



Steam condition monitoring

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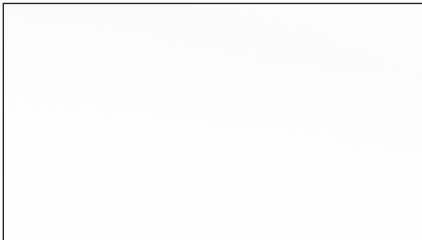
# Did you know...

Our website has more detailed information about all our products.

For more information, please visit our website at [www.spiraxsarco.com](http://www.spiraxsarco.com)



# Product highlights



TFA Flowmeter - point of use metering



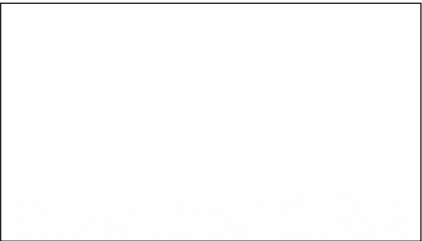
STAPS ISA100 wireless steam trap monitoring solution



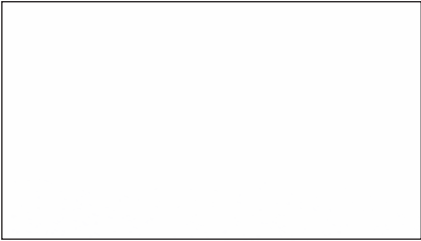
SP400/500 the world's most energy efficient electropneumatic valve positioners

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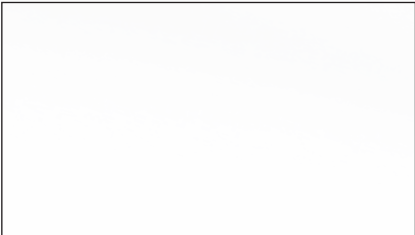


Spirax Sarco STAPS Wireless Steam Trap Monitoring Solution



Improve the energy performance of your plant with The Spirax EasiHeat™

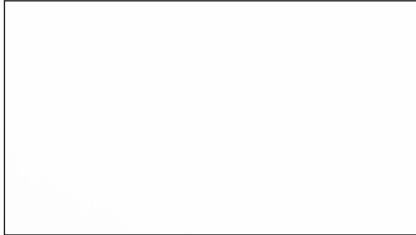
# Our capabilities



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2017 sustainability highlights



Manufacturing capability

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