

*How did the portuguese show
news worlds to the world?
...innovators by nature!*





STEAM & FLUID SYSTEMS SPECIALIST

PAST / PRESENT / FUTURE

We began in 1983 as a steam specialist contractor. A few years later, we start developing products for industrial steam and fluid systems and since then we never stopped evolving.

We are restless in searching for new products and new solutions for our clients: from standard and non-standard series, to tailor made products, *Valsteam ADCA* has one of the largest range of products in Europe.



TURN KEY SOLUTIONS

The growth of the company and the continuous challenges of our clients, has lead us to becoming a full service manufacturer.

We assure in house the complete production cycle:

DESIGN | MACHINING | WELDING | ASSEMBLY | TESTS |
QUALITY | PACKAGING

FROM PORTUGAL TO THE WORLD

We are a global company.

The high quality standards we put in all our products are recognized worldwide, and now our brand ADCA may be found in over 80 countries and in practically in all kinds of industries.

PRODUCTS

STEAM TRAPS

We provide a complete range of steam traps using different materials, from DN15 to DN150, designed for pressure up to 80 bar and flow rates of over 100,000 Kgs/h.

PRESSURE REDUCING VALVES

From the simplest direct action valve, to the more sophisticated pilot operated valve, we assure a wide range of options, varying in different types of construction. In our warehouse, we have the necessary material to quickly manufacture a soft or hard seating by adding cobalt alloys and others.

CONTROL VALVES

Adcatrol valves offer different solutions for controlling temperature, level, pressure, and humidity. All can be supplied with electric or pneumatic actuators, including positioners, transmitters, switches, and all kinds of options.

PIPELINE ANCILLARIES

Valsteam ADCA produces filters, sight glasses, vacuum breakers, drip traps for compressed air systems, air eliminators and several other ancillary items which are vital to the functioning of your installation.

SPECIAL EQUIPMENT

A wide range of equipment, in most cases specially developed for the process industries.

Pumps / Humidity separators / Sample coolers / Steam injectors / Steam to water mixers / Flash vessels and blowdown vessels / Direct steam injection humidifiers / Heat exchangers / Exhaust heads / Skid Mounting Systems.

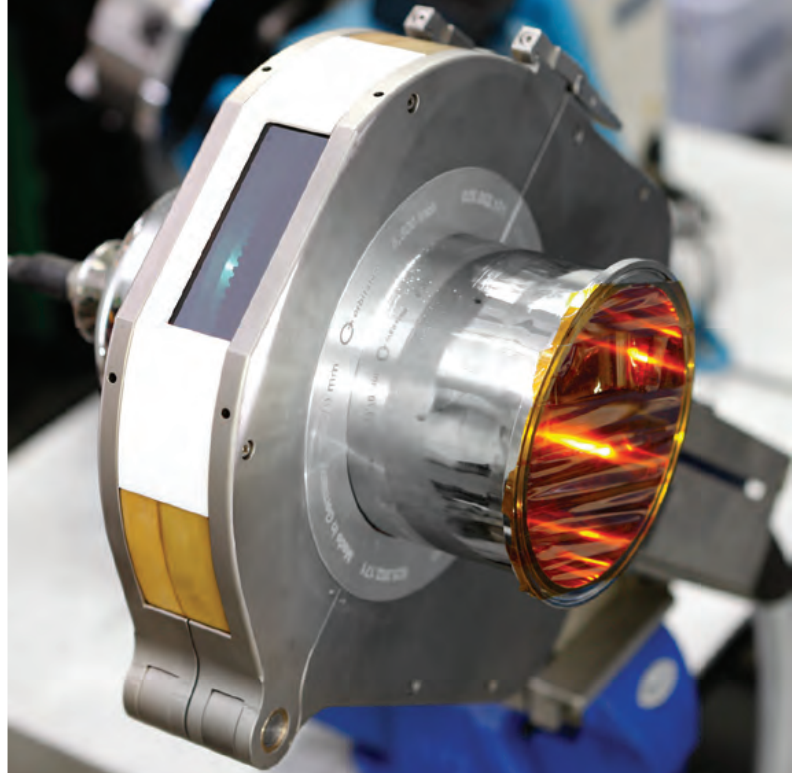
ADCAPURE

Products for clean steam and industrial gases and fluids, designed for the pharmaceutical, food, chemical and cosmetic industry.

TAILOR MADE PRODUCTS

Due to our technical capacity, production means and flexibility, we are specially prepared to develop and manufacture tailor-made items.





ENGINEERING & MACHINING

ADVANCED ENGINEERING SOFTWARE

The development of our products begins in our design and engineering departments, where our teams of designers and engineers use the latest software.

HIGH PRECISION MACHINERY

The strong investment in state of the art machinery allows us to achieve a high level of quality and reliability, as well as a natural increase in production and as a result, a decrease in delivery time applied to non-standard series and products or even to tailor made articles, where deadlines and flexibility are crucial.

WELDING

We use several welding processes carried out by experienced and qualified welders. To ensure the highest standards, we also have an isolated sector dedicated to stainless steel welding.

FINISHING & TESTS



PERFECT FINISHING AND POLISHING

Most of the components used on our products must be submitted to grinding, burnishing, lapping, among other operations.

These finishing and polishing processes controlled by our quality department are also practiced on our premises, assuring the successful assembly of the final product.



QUALITY CONTROL AND TESTS

The finishing processes and the raw materials are fully controlled through spectrometry and 3D measuring devices and the final products tested in real functioning conditions. In our test benches products are tested in real functioning conditions to grant reliability and the pursuit of new technical solutions.



SPECIALIZED TEAMS

Valsteam ADCA wouldn't be the same without the dedication and know-how of all of our teams. Engineers, Welders, Designers, Machinery Operators, Technical Sales, a full staff highly skilled, in constant professional growth through ongoing training.





QUALITY & TECHNOLOGY

QUALITY IS MORE THAN A STATEMENT

Apart from following ISO international quality standards, we also follow European directives applied to this sector by keeping our technicians and procedures approved by testing and certification organizations.

INVESTMENT + R&D = TECHNOLOGY

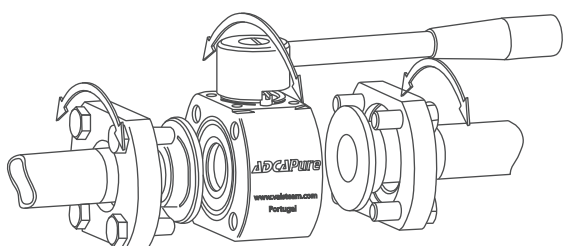
We are always ready and focused to research and propose more effective solution. That's why in all these years we have never stopped investing in new equipment. But at *Valsteam ADCA*, technology is also acquired through R&D: new products, solutions and machinery are also developed in-house by our engineering team.

Check-out
valsteam's
technology
from inside:



HUMIDITY SEPARATORS SAMPLE COOLERS STEAM TRAPS

HIGH PURITY BALL VALVES



ISOLATING VALVES DESIGNED FOR USE ON CLEAN STEAM

Easy and quick installation: loose body flanges make it possible to install the valve without aligning of welded end connections. After the installation, the valve can rotate on 360° for the desired orientation.

SANITARY PNEUMATIC CONTROL VALVE



HYGIENIC AND ASEPTIC ANGLE CONTROL VALVE



**PRESSURE SUSTAINING VALVES
PRESSURE REDUCING VALVES
CONTROL VALVES**

**SANITARY PRESSURE REDUCING /
SUSTAINING VALVE**



OPTIONAL CAPTURED VENT



**LOW PRESSURE
BLANKETING REGULATOR**



CLEAN STEAM TRAPS



CLEAN STEAM HUMIDITY SEPARATOR



**SAMPLE COOLER
CLEAN STEAM**



VACUUM BREAKER



HIGH PURITY HIGH DEMANDS HIGH TECHNOLOGY

Since the early 80's, *Valsteam ADCA* specialized in steam products. As our range of products kept on growing, the need to create a dedicated brand for clean steam and industrial gases and fluids has also grown. So we created *ADCAPure*, the *ADCA* range of products designed for the pharmaceutical, food, chemical, and cosmetic industry.



MORE THAN A MANUFACTURER

The know how we gathered all these years has been put into service to our clients: we don't stand only in the production, we advise our clients to reach the best system and we engineer and develop the best solutions. Always with the focus to keep your energy efficiency and system reliability at the top, in total compliance with the quality standards.

Soldadura inox
Stainless steel welding





PERFECTLY ENGINEERED, PERFECTLY CLEANED

ADCAPure targets very demanding industries, with complex purity systems. That's why throughout the production cycle our products are subject to tight specifications and requirements.

RAW MATERIAL CONTROL

At Valsteam ADCA, the compliance with the higher standards takes place right from the beginning: according to the EC No 1935/2004 traceability exists for all the raw materials and they are all tested by specialized technicians and by advanced equipment.

QUALITY COMPLIANCE IN THE MANUFACTURE

Besides the state-of-the-art machining equipment, to ensure the highest standards we also have an isolated sector dedicated to stainless steel welding. Here we carry out specific welding techniques, such as microplasma, orbital, or pulse tig. The manufacture process follows GMP for FCM as specified in EC No 2023/2006.

QUALITY COMPLIANCE IN THE ASSEMBLY

Valsteam ADCA invested in a certified clean room (acc. to ISO 14644-1) especially to assemble the ADCAPure equipment on a non-contaminated environment.

The room is divided into four separated areas:

ULTRASOUND CLEANING ROOM

Equipped with a fully automatic machine for ultrasound cleaning, a special degreasing method for oxygen applications and passivation;

HYGIENE CHAMBER

For personal disinfection and to properly dress all the PPE (personal protective equipment) required;

ASSEMBLY ROOM

Here the products are assembled, tested and packed. It is equipped with stainless steel tools and furniture;

WAREHOUSE

For final product storage, in a contamination free environment.





QUALITY STANDARDS

We are fully aware and in line with the certifications and documentation needed. Our assembly room is certified according to the ISO 14644-1 standard.

Valsteam ADCA is also an *EHEDG* member and, therefore, we keep our production in the edge of hygienic, secure and safe production.

Check out
our cleanroom
video:





STEAM AND FLUID MASTERCLASSES

Know-How and quality of the equipment are the basis grounds for a perfect fluid or steam system installation. That's why all the distributors of *ADCA Equipment* are right from the beginning automatically registered in to our on-going course: *ADCA Training*.

This training program begins with intensive sessions in our headquarters when a distributor starts to work with us and is constantly being renewed and updated.

It is divided in six essential modules and is complemented with all the technical documentation needed, available online in a dedicated area of our website.



PRODUCT MASTERY

In this stage distributors are given a guided tour into our range of products.

Each piece of equipment is explained from head to toe; from the raw material applied, to the maintenance required.

We know the better you master the equipment and it's characteristics and full potentiality, the more your advices and material choices will be accurate.



INSTALLATION WORKSHOP

After the extensive product training comes the practical workshop.

Our distributors will now get down to work in our live steam test bench.

These learnings will be crucial to fully understand the wide range of applications of our products.

STEAM TRAPS

THERMOSTATIC BALANCED



CLEAN STEAM TRAPS

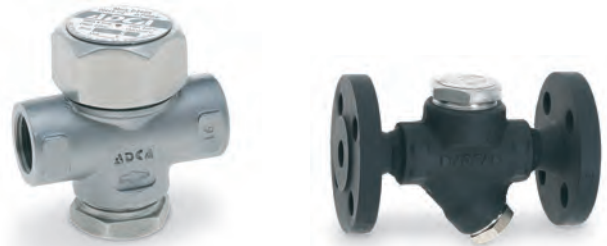


An efficient steam trap defines the frontier between steam and condensed liquid and allows the proper functioning of the installation and better energy management.
From DN15 to DN 150 |
Pressure up to 80 bar |
Flow rates of over 100,000 Kgs/h.

THERMOSTATIC BIMETALLIC



THERMODYNAMIC



INVERTED BUCKET



STEAM TRAP UNIVERSAL CONNECTORS



FLOAT AND THERMOSTATIC



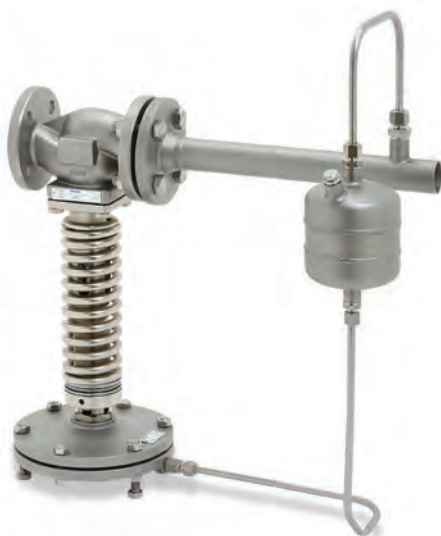
PRESSURE REDUCING VALVES

PILOT OPERATED



ADCArol

HIGH CAPACITY



CLEAN STEAM RANGE



When it is required (for mechanical or thermodynamic reasons) this valves reduces pressure close to usage points (machinery) or in different areas of a plant. Carbon steel, stainless steel, cast steel | From DN 08 up to DN150 | European and American standards.

DIRECT ACTING // SUSTAINING



CONTROL VALVES

STAINLESS STEEL



Modern plants demand accurate distribution and control of fluids. Control Valves play a crucial role in an effective control system.

We can study solutions for special applications; such as low noise requirements, micro-flow applications, cavitation protection, among others.

Carbon steel, Cast steel and Stainless steel | From DN15 to DN200 | Screwed, wafer or flanged connections | EN1092 or ANSI standards.

OVERFLOW VALVES



CLEAN STEAM RANGE



TWO OR THREE WAY CAST STEEL // ON-OFF MODULATING SPECIAL DESIGNS



BLOWDOWN VALVES



PIPELINE ANCILLARIES

STRAINERS



COMPRESSED AIR TRAPS



Although many times neglected, Ancillary items are vital to the functioning of your installation, assuring the efficiency of a distribution system and fluid control.

CHECK VALVES



VACUUM BREAKER



SIGHT GLASSES



AIR ELIMINATORS



SPECIAL EQUIPMENT

SKID MOUNTING SYSTEMS



Our knowledge on energy recovery in steam systems, allow us to provide a complete solutions, in "plug-and-play" packages.

BLOWDOWN TANKS



This group of items consists of different equipment and, in most cases, specially developed to the process industries.

STEAM WATER MIXERS



ADCAMix

ADCAMAT PUMPS



ADCAMat

FLASH VESSEL



HEAT EXCHANGERS



ADCATherm

SAMPLE COOLERS



HUMIDITY SEPARATORS





PRODUCTS MANUFACTURED
IN PORTUGAL

thesilverfactory.pt



Find out more:



VALSTEAM ADCA ENG. S.A.

Zona Ind. da Guia, Pav.14 - Brejo
3105-467 Guia PBL
PORTUGAL

☎ (+351) 236 959 060

☎ (+351) 236 952 950

✉ adca@valsteam.pt

www.valsteam.com

Valsteam ADCA is a full service manufacturer of steam & fluid systems equipment based in Portugal. We deliver groundbreaking solutions to practically all kinds of industries, in more than 80 countries from the 5 continents.

DISTRIBUTOR:



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