

your partner in
fluid handling

saidi service centre

projects & M.R.O.



total valve management



outsourcing

@Saidivalves



EPC
Global partner



fluid control **solutions**



SAIDI SERVICE CENTRE

- Valve Automation Centre
- KLINGER® Gasket Workshop
- Valve Repair *express* & Assembly
- Testing & Measurement Lab
- Saidi University Training Room



SAIDI SERVICE CENTRE

Saidi Service Centre offers a wide range of **value added services**, with the objective to avoid the dependency from others and lengthen deadlines, and with the target of acquiring more efficiency and flexibility, a better control, a Quality assurance on the product and the management, while developing our own procedures (*Saidi know-how*).

A permanent service made up of **seven main areas**.

Saidi Service Centre ofrece una amplia variedad de servicios de valor añadido, con el objetivo de evitar la dependencia de terceros y mejorar los plazos de entrega, tratando de conseguir una mayor eficiencia, flexibilidad y un mejor control, asegurando la Calidad sobre el producto y la gestión y demostrando su capacidad para desarrollar sus propios procedimientos (*Saidi know-how*).

Un servicio permanente compuesto por siete áreas principales.

 *Valve Automation Centre (ON/OFF & Control)*

 *Valve Repair Express & Assembly*

 *KLINGER® Gasket Workshop*

 *BOA Flexible Solutions*

 *Plastic Solutions*

 *Testing & Measurement Lab*

 *Practical Training Room*



SAIDI SERVICE CENTRE



SAIDI SERVICE CENTRE

The new **Saidi Service Centre (SSC)** is located in Ribarroja del Turia's Industrial Hub, one of the main logistics nodes of Mediterranean. Its location —right at the intersection of A-3 & A-7 highways— facilitates access by road to the main industrial centers of the country. This, combined with its proximity to the new Valencia Logistics platform and the short distance to the port and airport of Valencia, make this the ideal spot to locate our Service Centre.



VALENCIA LOGISTICS CENTRE

Next to the SSC is located the **Valencia Logistics Centre (CLV)**, in which all logistics activities of the company are concentrated, in order to increase our service level and shorten delivery times.

The new Logistics Centre has all necessary technology for optimal management of the supply chain:

- **Automated processes** of reception, storing, picking and dispatch of goods.
- Real time warehouse management allows **continuous monitoring** of all logistics processes.
- Supported by **board terminals** and interconnected PDA by means of **WIFI** access points.
- Identification of goods using barcodes and **RFID** tags, ensuring **traceability** throughout the supply chain.



The Centre also has a complete Quality system with a *state-of-the-art* Measurement and Control technology, including **five test benches up to 1,050 bar capable of vacuum tests**.

QUALITY CONTROL

- **Computerized Test Bench**
- Hydraulic Pressure
- **Vacuum Tests**
- **Positive Material Identification (P.M.I.)**
- **Thickness Tests**
- **Roughness Tests**
- **Vacuum Tests**
- **Penetrant Tests**
- Magnetic Particles
- **Hardness Tests**
- Cleaning and Ultrasonic degreasing machine
- Others...



Your plant under control



1. VALVE AUTOMATION CENTRE (ON/OFF & CONTROL)

Focused on plant service:

- **Actuated valves (MOV & ON-OFF).** Mounting, regulation and start up of actuators (electric, pneumatic, hydraulic). Machining of mounting kits. "Off-the-shelf" delivery.
- **Control valves.** Assembly, regulation, testing and start up of control valves. Machining of special trims for troubleshooting of the issues related to flow characteristics such as cavitation, *flashing*, *choked flow* or noise.
- **Safety valve Test Bench.** Assembly, test and calibration of safety valves
- **Valve Lab:** Communication test protocols and field buses (*Device Net, Modbus, Hart, Profibus, Fieldbus...*). SAIDI University training courses.

Orientado al servicio en planta:

- **Válvulas actuadas MOV/ON-OFF.** Montaje, regulación y puesta en servicio de actuadores (eléctricos, neumáticos, hidráulicos). Mecanizado de piezas de acoplamiento. "Off-the-shelf delivery".
- **Válvulas de Control.** Regulación, prueba y puesta en servicio de válvulas de control. Mecanizado de trims especiales para la corrección de problemas relacionados con las características de flujo tales como cavitación, *flashing*, *choked flow* o ruido.
- **Banco de tarado de Válvulas de Seguridad.** Ensamblado y tarado de válvulas de seguridad.
- **Valve Lab:** Test de protocolos de comunicación y buses de campo (*Device Net, Modbus, Hart, Profibus, Fieldbus...*). Cursos de formación SAIDI University.



Valve Lab

HART
COMMUNICATION PROTOCOL

**PROFI
BUS**



DeviceNet
COMMUNICATION PROTOCOL

Modbus



- NAMUR VDI/VDE
- ANSI FCI 70.2
- ISA
- IEC 60534
- DIN 3230
- MSS-SP-61
- ISO 5210/5211



ACCESORIES

- Padlock and Locking devices
- Conical & Cylindrical Linear Gear operators
- Quarter turn gear operators for ball and butterfly valves
- Handwheel manufacturing
- Stem extensions
- Chain wheels with chain guides and spark resistant hooks
- Lever mounting (standard ones, "dead man" handles, fail safe levers...)

AUTOMATION

- Mounting, testing and regulation of electric and pneumatic actuators
- Machining of drive nuts
- Manufacturing of Valve / actuator flange adaptors
- Mounting, testing and regulation of microswitches
- Assembly tests
- Assembly technical drawings

CONTROL

- Automation and / or special assemblies for accessories in control panel such as *boosters, look up, tank...* for emergency applications or power failures
- Any kind of voltages
- Various protocols (*Device Net, Modbus, Hart, Profibus, Fieldbus...*)
- Regulation of positioners

ON/OFF

- Mounting of ON/OFF valves



Original spare parts

2. VALVE REPAIR *Express* & Assembly

Machining, welding, locking devices, handwheels, jackets, drilling, packings, stem extensions, flange raised, painting and sandblasting procedures

- Original spare parts for High Performance valves (CRANE®, XOMOX, Saunders®, KLINGER®, Pacific...)
- Assembly of CRANE Saunders® Diaphragm valves.

Mecanizado, soldadura, enclavamientos, volantes, encamisado, retaladrado, empaquetaduras, alargaderas, resalte de bridas, pintura,...

- *Recambios originales de válvulas High Performance (CRANE®, XOMOX, Saunders, KLINGER®, Pacific...)*
- *Ensamblaje de válvulas de diafragma CRANE® Saunders.*



Assembly



Machining

Welding



Valve *repair* *Express*



Locking devices

Painting & Sandblasting



CRANE

Authorised by CRANE®
to assemble ball, check
and diaphragm valves
acc. to 97/23/EC PED



PAINTING & SANDBLASTING

- Painting booth
- 2 sandblasting rooms for different valve sizes
- Drying area
- 4-layer coating to get to required thickness
- Results from independent Laboratories
- Adhesion Testing
- Procedures, Certificates, Measurement & Control equipment
- Highly qualified staff



WELDING

- Automatic TIG (Tungsten Inert Gas)
- Automatic MIG (Metal Inert Gas)
- Automatic MIG/MAG (Metal Inert Gas/Metal Active Gas)
- Silver thread
- Spot Welding
- Approvals (PQR, WPS, WPQ)



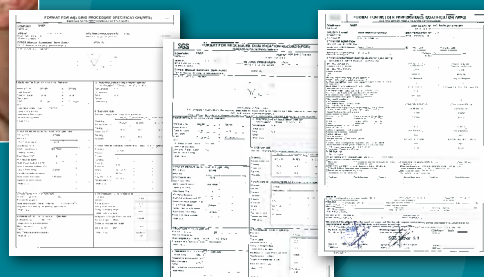
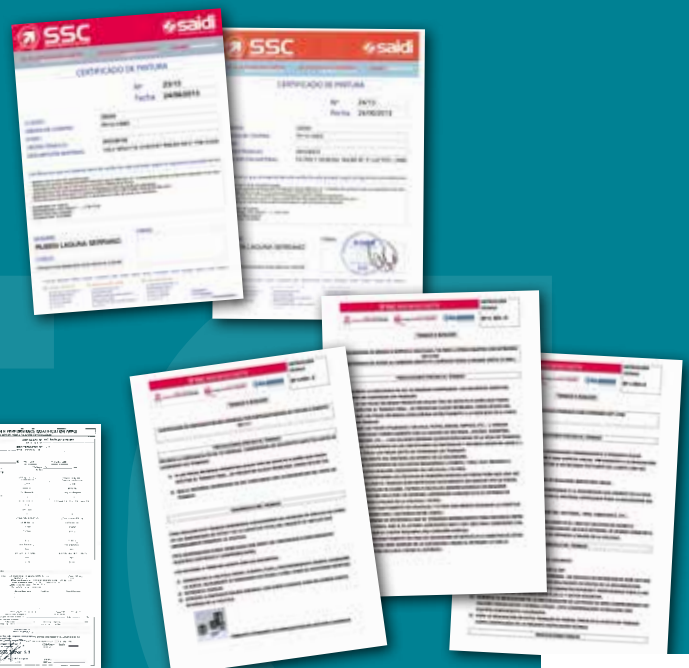
MACHINING

- Equipment specialized in the machining of special pieces
- CNC Milling cutter
- Cutting, Folding and bending machinery
- Equipment for Butt welding ends machining
- Procedures and certificates from independent companies
- End machining (SW, BW, Flanges according to RF/FF/RTJ/Male-Female)
- Plugging and drilling of valve connection points



MAINTENANCE

- Ultrasonic cleaning
- Spindle rectification
- Replacement of valve packing (Graphite/PTFE/'V' Teflon® for vacuum service) and body-bonnet gaskets for any kind of valves



Gasket manufacturing

3. KLINGER® Gasket Workshop

A centre of Design and Manufacturing of Gaskets focused to local plant service (plant shutdown):

- Manufacturing of metallic gaskets (spiral wound, Kammprofile and RTJ type)
- Tailor-made gaskets as per drawing or standard ones made of fibre-based sheeting, PTFE, Graphite laminate, etc.
- Plant shutdown management (*off-the-shelf delivery*), assistance and training on gasket installation. **KLINGERexpert®** (your gasket selector).

Un centro de diseño y fabricación de juntas orientado al servicio local en planta (gestión de paradas):

- *Fabricación de juntas metálicas (Espirometálicas, Kammprofile y RTJ)*
- *Corte de juntas bajo plano o estándar en materiales de fibra, PTFE, Grafito laminado, etc.*
- *Gestión de paradas (off-the-shelf delivery), asistencia y formación en instalación de juntas. KLINGERexpert® es la mejor herramienta para el cálculo de juntas.*



EXPERT[®]
sealing technologies



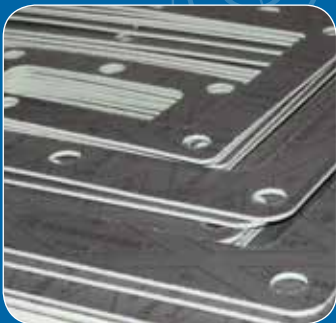
KLINGER[®]

Worldwide Number 1 in sealing technologies



NON METALLIC GASKETS

- Design and Manufacturing of Gaskets
- Materials: Non asbestos Fibre, Graphite ,PTFE, Rubbers, etc.
- High precision cuttin CNC (Numeric Control) technology
- Cutting of highly complex gaskets as per drawing
- Urgent cutting service 6 / 12 / 24 hours



METALLIC GASKETS

- Spiral wound gaskets manufacturing
- CRIR (inner & outer ring), CR (outer ring), R (without rings) gasket types both standard and special sizes
- Materials according to 316L, 304, 321, Monel... (other materials on request)



Your Flexible Solutions Partner



4. BOA Flexible Solutions

Manufacturing of hosepipes and flexible metal hoses.

- Tailor made hoses as per customer requirements. All kind of connections and materials.

BOA Group is one of the leading manufacturers of flexible metal elements: hoses and their assemblies, hydroformed and edge-welded bellows, expansion joints and vibration dampers.

Fabricación de latiguillos y mangueras.

- *Soluciones a medida según especificaciones del cliente. Todo tipo de conexiones y materiales.*

BOA Group es un fabricante líder en elementos metálicos flexibles: mangueras y sus accesorios, fuelles hidroformados y soldados, juntas de expansión y compensadores de dilatación.



Be on the **safer side** with **BOA technology**



BOA Group



HOSE MANUFACTURING

- **BOA metallic hoses - Series "DUO" Length 300mm "A" braid (DN10 ÷ 80)**

FEATURES

- Double-plyed (tripled-plyed construction at the crest)
- Very flexible high pressure hose (high pressure applications)

APPLICATIONS

- Any kind off high pressure applications
- Excellent vibration absorber



- **BOA metallic hoses - Series "SUPRA" Length 300mm "A" braid (DN10 ÷ 80)**

FEATURES

- The greater flexibility of all BOA products
- Nominal size DN5 ÷ DN300
- Double-plyed construction at the crest

APPLICATIONS

- Where good flexibility is required
- Metallic hose for general service



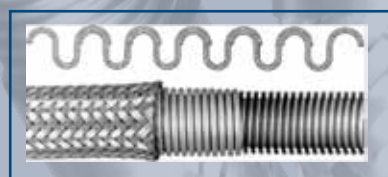
- **BOA metallic hoses - Series "SPIRA" Length 300mm "A" braid (DN10 ÷ 65)**

FEATURES

- Single-plyed, robust, helically corrugated
- Less flexible than BOA "SUPRA" but with a longer life
- Nominal size DN6 ÷ DN65
- The cheapest of the welded hoses

APPLICATIONS

- Hose for various applications

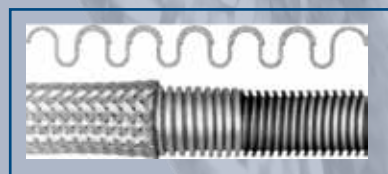


BOA DUO

Helically corrugated stainless steel hose - double plyed

Corrugated: 1.4571 (similar to 316Ti)

Braided: 1.4301 (similar to AISI 304)

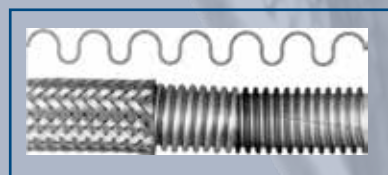


BOA SUPRA

Helically corrugated stainless steel hose - single plyed

Corrugated: 1.4571 (similar to 316Ti)

Braided: 1.4301 (similar to AISI 304)



BOA SPIRA

Helically corrugated stainless steel hose - double plyed

Corrugated: 1.4571 (similar to 316Ti)

Braided: 1.4301 (similar to AISI 304)



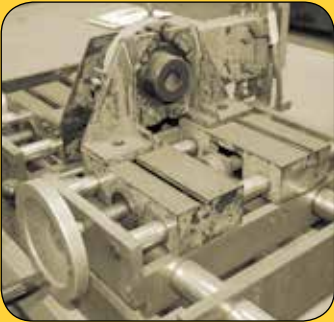
5. Plastic Solutions

- **Automation.** Selection and Stock of actuators & mounting kits. Manufacturing of special couplings. Actuators' installation. Mounting and supply of accesories (solenoid valves, microswitches, filters...). Assembly and regulation of positioners.
 - **Machining and transformations.** Flange assembly to plain ends valves. Special flanges manufacturing. Machining of special pieces, couplings, unions and adaptors made from bar.
 - **Maintenance.** Valve repair. Original spare parts. Cleaning and refurbishment. Official warranty.
 - **Piping Skids.** Assembly and construction of piping skids, comprising pipes, accesories and thermoplastic valves by heat socket fusion or Butt welding, up to ext. 110mm.
 - **Official Service.** 3D Parts Design (Autodesk Inventor). 2D Drawings (AutoCAD). Technical and practical seminars for thermoplastic solutions. Sealing testing developed by our Quality Control Department. Tags & **RFID (Radio Frequency IDentification)**.
-
- *Automatización. Selección y stock de actuadores y kits de montaje. Fabricación de acoplamientos especiales. Instalación de actuadores. Montaje y suministro de accesorios (electroválvulas, finales de carrera, filtros...). Ensamblado y regulación de posicionadores.*
 - *Mecanizado / Transformaciones. Montaje de bridas en válvulas con extremos lisos. Fabricación de bridas especiales. Mecanizado de piezas especiales (manguitos, bridas ciegas, roscadas, bajo plano, uniones y adaptadores a partir de barra).*
 - *Mantenimiento. Reparación de válvulas. Sustitución de piezas originales. Limpieza y acondicionamiento. Garantía oficial.*
 - *Construcción de isométricos. Montaje y construcción de isométricos de tubería, válvulas y accesorios en materiales termoplásticos hasta Ø ext. 110mm.*
 - *Servicio oficial. Diseño de piezas 3D (Autodesk Inventor). Realización de planos 2D (AutoCAD). Jornadas técnico-prácticas de soluciones termoplásticas. Tags / RFID (Radio Frequency IDentification).*



THERMOPLASTIC SOLUTIONS

- Machining and transformation of any kind of pieces
- Machining of end connections such as stub ends, etc.
- Mounting and construction of pipe skids
- Thermoplastic pipe fittings and valves (cement socket and Butt Fusion ends)
- Automation of thermoplastic valves
- Special microswitches
- Auto-locking devices
- Etc...





6. Testing & Measurement Laboratory

RESEARCH & DEVELOPMENT

- A “window” to **Research and Development**, from which we can hover and participate in performing Non Destructive Testing (NDT), with the aim of seeking improvement and performing of the **Quality Control** of those products acquired and supplied by Saidi, along with those other which are manufactured in our Service Centre.
- **A showcase of equipment for performing multiple inspections and tests.** Among the various tests that we can perform the following quote: Paint Control, Ultrasonic Thickness measurement, Hardness Control, Penetrant Testing, Control UV lamp cleaning, coatings Control, Roughness testing, etc.
- In this lab you will find the following **equipment and tools** (among others): Ultraviolet lamp, Brinnell Durometer, Shore D Durometer, Yoke for magnetic particle testing, different rank calibrated gauges, torque wrenches, equipment for liquid penetrant testing, testers threads, roughness, igniter, paint comparative tables, caliber, gauges, paint adhesion tester, paint thickness tester, vacuum pump, Telster, etc ...
- Moreover, in this room will be exposed parts and samples with damage or defects caused in the process of origin of the raw material in its various intermediate processes or its final use on site.

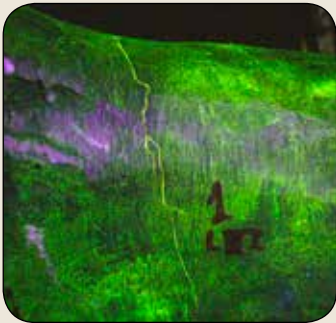
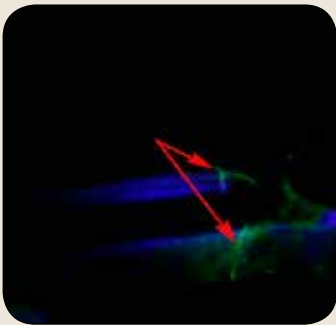
This “window” is not only very valid to Saidi and our suppliers, but for all those who visit our Service Centre.

We expect you.



MEASUREMENT & TESTING LAB

- Paint control
- Ultrasonic Thickness measurement
- Hardness control
- Penetrant Testing
- Control UV lamp cleaning
- Coatings control
- Roughness Testing
- Etc...



Laboratorio de ensayos y mediciones
Testing and Measurement Lab



Practical Training Room

7. Practical Training Room

CONTROL TRAINING ROOM

- Aimed at **all those interested in learning**, experience and deepen the practical operation of typical applications and processes in an industrial facility. After the theoretical training course of SAIDI University, and through our experts, the Training Room is intended to transfer theory to practice and therefore brings the possibility of making actual testing of different control loops such as: level control loops, pressure, flow and temperature, along with a reducing station.
- For attendees the main test panel becomes an approach to industrial processes in a direct, easy and flexible way. **The high level of interaction with the user may create conflict situations, alarm activations, etc...** Thus assimilating real actions that may occur in facilities controlled by actions of an operator —either manually or by miscommunication—, which from a control panel are performed remotely. So we get that the attendee will complete the formation on our Training Room experiencing real situations that you will face in your plant and whose development can then easily understand, as he has been able to test them *on site* in our pilot plant.
- In this way **the audience will understand the peculiarities of a complete control loop**, starting by sending signals through the control panel, with its corresponding reactions installed equipment, and finally getting the desired set point. In the freehandling area you will finally see the operation of internals through sectioned bodies of all kinds of valves. You can also test and see the operation of manual valve assemblies with open/close signaling devices, manual locking devices, etc...

We expect you!

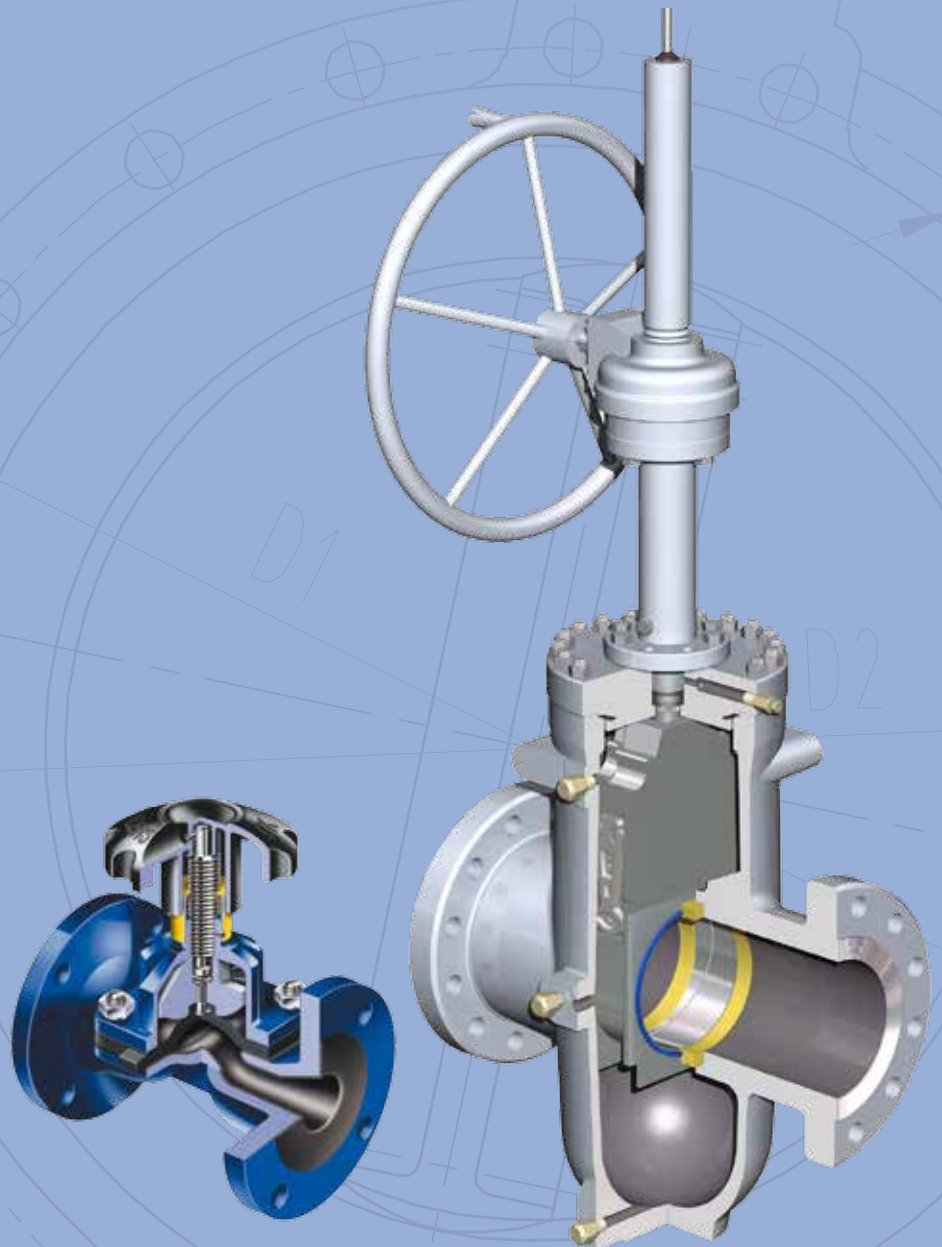


Sala de prácticas de Control
Control training room



SAIDI UNIVERSITY | PRACTICAL TRAINING ROOM

- Level control loop
- Pressure control loop
- Flow control loop
- Temperature control loop
- Pressure reducing station
- Manual valves with open/close indication devices
- Samples of sectioned valves
- Samples of gaskets
- Samples of electric and pneumatic actuators
- Samples of automation accessories: microswitches, solenoid valves...
- Etc.



DESIGN & ENGINEERING

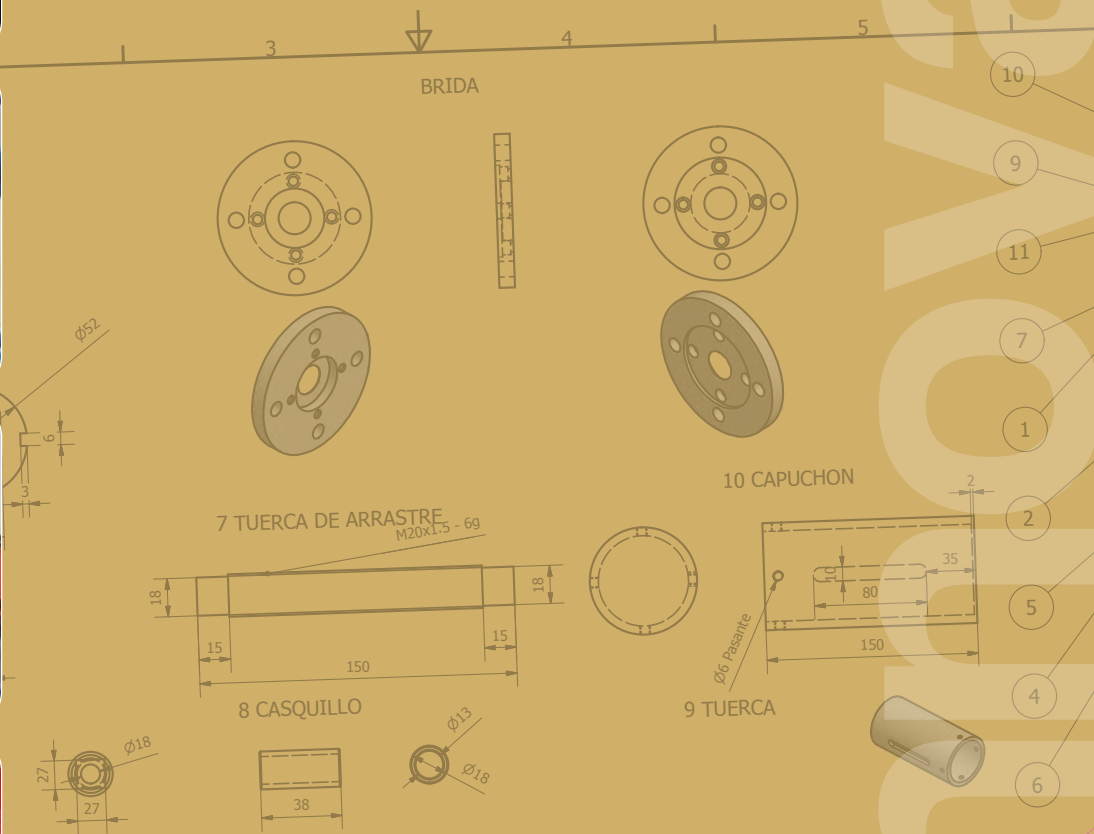
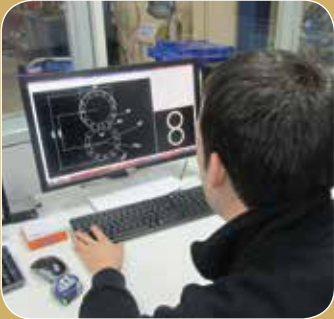
Our Service Centre has a **Technical Office specialized in designing and manufacturing** of all kinds of special parts to provide a solution to customer's needs. We have **technical staff and CAD stations** dedicated to the performing of assembly drawings and design of metallic and nonmetallic parts to perform ON/OFF valves automation, the installation and assembly of control devices, machining and adaptation of valve ends and piping elements, producing mounting flanges and fittings for assembly of actuators, the development and manufacture of valve internals, brackets for measurement and control devices, locking devices, spindle extensions and maneuver columns, repair and start up of valves, etc.

*Nuestro Service Centre dispone de una **Oficina técnica especializada en el diseño y fabricación** de todo tipo de piezas especiales para proporcionar una solución a las necesidades del cliente. Disponemos de **personal técnico y estaciones CAD** dedicados a la realización de planos de montaje y diseño de piezas metálicas y no metálicas para llevar a cabo la automatización de válvulas ON/OFF, así como la instalación y montaje de elementos de control, la mecanización y adaptación de extremos de válvulas y elementos de piping, la fabricación de bridas de acoplamiento y accesorios para el montaje de actuadores, el desarrollo y fabricación de internos para válvulas, soportes para dispositivos de medición y control, dispositivos de bloqueo, extensiones de husillo y columnas de maniobra, reparación y puesta en funcionamiento de válvulas, etc.*

Sa+Di

Research & Development

- CAD stations dedicated to the performing of assembly drawings and design of special metallic and nonmetallic parts
- Developing Solutions to adapt and mount flange adaptors on valves
- Manufacturing position indicators and special seats on linear and quarter-turn valves
- Adjustment of microswitches, solenoid valves, positioners, filter reducers, etc.
- Padlockings and locking devices
- Stem extensions
- Maneuver columns
- Transformation of Globe valves into Globe & Check



LISTA DE PIEZAS		DESCRIPCIÓN
Nº DE PIEZA		
6	1	EJE DE LA VALVULA
7	1	varilla roscada M20x1,5 Rosca a izq.
8	4	casquillo
9	1	ANSI B18.2.4.2M - M20x2,5
10	1	capuchon
11	1	indicador a-c

Diseño de	Revisado por	Aprobado por	Fecha
L.S.G.			

COMP. DE CIERRE EL

SSC

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with Quality

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SSC
SAIDI SERVICE CENTRE



C/. Masía del Conde, nave nº 3
Polígono Masía de Baló
46190 Ribarroja del Turia (Valencia)
P. O. Box 288

T +34 961 640 339 | F +34 961 640 331
ssc@saidi.es | controlcalidad@saidi.es

Latitude 39° 28' 40" **GPS**
Longitude 0° 34' 52"



Av. del Llano Castellano, 15
28034 Madrid
T +34 91 358 12 12 | F +34 91 358 04 88
gal@saidi.es