REMOTE CONTROL ELECTRO – HYDRAULIC EQUIPMENT.

ENGINEERING SOLUTIONS FOR REMOTELY PILOTED VALVES
Our company manufactures Remote Control Electro-Hydraulic Equipment for command, signalling, and control for remote piloted valves, on the different systems and piping services on vessels.

With the experience gathered for more than 15 years, we offer, not only the equipment, but also a complete study of remote valves system as a whole.
“à la carte” solutions

designed from the valves down to the computer screen.
In a continuation we introduce you our range of products, and we invite you to count with us and confirm our commitment for yourself.
The Hydraulics Power Units provide with the necessary motor fluid for the proper movement of the valves actuators.

They are mainly made up of a Hydraulic group and Starter Board in just one set.
On the Hydraulic group, and on its oil deposit, two hydraulic motor pumps are placed, in addition to the rest of necessary hydraulic elements for the proper performance and control of the whole Unit. They are specifically placed to make easy its use, maintenance and supervision.
As Hydraulic elements for running and control purposes, they have:

- Safety valve on pressure line
- Manometer with pressure gauge protector.
- High and low pressure presostate.
- Working presostate.
- Pressure Transducer. 4-20 mA.
- Oil temperature Thermostat.
- Visual & Electrical Level.
- Pressure & return lines filters.

HYDRAULIC POWER UNIT: 400lts, 361ts/min, 11kw, 2 Accumulators 50LTS, Nitrogen Bottle
The Hydraulic group is completed with the accumulators, including the possibility of Nitrogen bottle and manual emergency pump.

The accumulators group includes valves for isolated and de-aerated, as well as rupture disc.
On the other hand, the Starters Board of the Hydraulics Power Units includes not only the starters for pumps, but the following alarm and control elements as well:

- Low and low-low level alarm.
- High Pressure alarm
- Low pressure alarm with Stand-by
- High temperature alarm
- Thermal alarm with Stand-by
- Auto-manual-remote mode selector.
- Pump selector.
- Siren and alarm acceptance.
HYDRAULIC POWER UNIT

All the alarms and control elements have visual signalling in the starter board and remotely through voltage-free contacts.

Apart from starter board, we also manufacture repeater for signalling and remote control.
The main elements used for the manufacturing are the following brands:

- Siemens or AEG motor.
- Telemecanica presostate.
- Danfoss Thermostat.
- Parker or Bosch Hydraulic modular valves.
- Olaer Accumulators.
- Voss or Ermeto fittings.

Electrical parts:

- Switches Merlin Gerin.
- Relay from Telemecanica and Releco.
- Electronical alarm cards.
- Diode cards with fuses in every indication circuits.
- Electronics temporized Relay.
Solenoid Racks
The solenoid racks is in charge of the command and control of the valves actuators and, in addition, it informs as well about the position in which they are.
A rack is formed by the union, in just one panel, of as much Hydraulic Control Units as the remote valves system have.

Every unit of them in the rack will have both the hydraulic connexions, for the valves actuators,

and the electric ones, for command and remote signalling from the Control Room, through an IAS system or a remote console.
We can provide with a detailed survey of the whole system, identifying the different sort of valves and actuators that must command, and the function they must fulfil with. In that way, we will design the hydraulic scheme, including the possibility of emergency manoeuvres, controlling one and more valves at the same time, from the rack, all in one.
The best specific solution for every case will therefore be found. We design compact and long lasting equipments, always taking care of every single detail.
Solenoids cabinets IP-56, to be placed in Control Room.
Solenoid Racks

IP-68 intrinsic safety boxes on deck.
Open solenoid racks in engine room.
The elements that compound our racks are carefully short listed, always using first brands such as:

- Solenoids & hydraulic elements from Parker, Bosck or Vickers
- Voss or Ermeto Inox 316 or steel-plated fitting.
- Free-halogens cable and wiring, certified, by General Cable or Pirelli.
- Terminals from Entrelec or Wago.
- Switches Merlin Gerin.

Together with them, we incorporate our own manufacturing, hydraulic manifold blocks, and Volumetric meters of on-off and throttle indication.
All our racks are completed with special interfaces for command valves, with the following characteristics:

- Hydraulic master valve function.
- PLC and solenoids diode protection.
- Output terminals for open-close command connections, through voltage-free contacts.
- Integrated power connections terminals.
- Local or remote control.
COMBINED HYDRAULIC EQUIPMENT
We put together Hydraulic Power Units and Solenoid Racks, offering compact and reduced solutions.
COMBINED HYDRAULIC EQUIPMENT

The dimensions of these equipments allow us to adapt them to every sort of ships, regardless it size.
They have all the characteristics and construction advantages of the hydraulic power units and the solenoid racks.
No matter how difficult it can be, any kind of equipment an operation can be done.
MIMIC & PANELS
COMMAND, SIGNALLING AND CONTROL
We develop as well mimic panels for command, signalling and control of the remote hydraulic equipments.

Ranging from the simplest mimic, to the most complex control console.
Our panels not only include the command and signalling for valves and hydraulic pumps; for instance, we can also fit analogical or digital instruments to any type of indicators, starters for ballast pumps, levels indicators and draughters.
Intrinsic safety, Zener power supply cabinets,

position transducers indication 4-20 mA, and junction boxes.
MIMIC & PANELS
COMMAND, SIGNALLING AND CONTROL.

Electrical, pneumatic, hydraulic and mixed consoles, as requested.
HYDRAULIC BLOCKS
SPECIAL SOLUTIONS.

TCS
TELECONTROL SYSTEM
We design as well Taylor made hydraulic blocks. For any purpose, for every project, we can offer you an specific survey.

All our products fulfil with the following regulations in force:

- Valves Inox AISI-316 and Aluminum Brass B-148-9d.
- Quick connexion Aluminum Brass B-148-9D o Inox AISI-316.
- Bolts and fittings Inox AISI-316.

Please find enclosed some examples:
HYDRAULIC BLOCKS - SPECIAL SOLUTIONS.

Isolation and regulation by-pass block

- By-pass valve
- Isolations valves
- Flow Regulator.
- Emergency quick connexions.

Isolation and by-pass block

- By-pass valve.
- Isolations valves.
- Emergency quick connexions.
**HYDRAULIC BLOCKS - SPECIAL SOLUTIONS.**

**Multiple distributor:**
- By-pass valve
- Isolation valves
- Emergency quick connections.
- 2 extra connections with isolation valves.
- Connections for plug-ins

**Local Remote Selector**
2 Way 2 Positions.

**Modular emergency close valves**

**Modular flow regulation valves**

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**TCS**
TELECONTROL SYSTEM
HYDRAULIC BLOCKS - SPECIAL SOLUTIONS.

ESD Blocks:

Flow compensated regulation blocks:

- By-pass valve
- Isolations valves
- Compensated pressure and temperature flow control.
- Emergency quick connexion.

By-pass valve
- Isolations valves
- ESD check valve.
- Double piloted check valve.
- Compensated pressure and temperature flow control.
- Emergency quick connexion.
- Hydraulic power units.
- Starters panels.
- Solenoids racks.
- ESD Equipment.
- Hydraulic actuators blocks.
- Mimic Panels.
- Control Panels.
- Intrinsic Safety.