

ACTUATORS FOR VALVES,
DAMPERS AND MORE

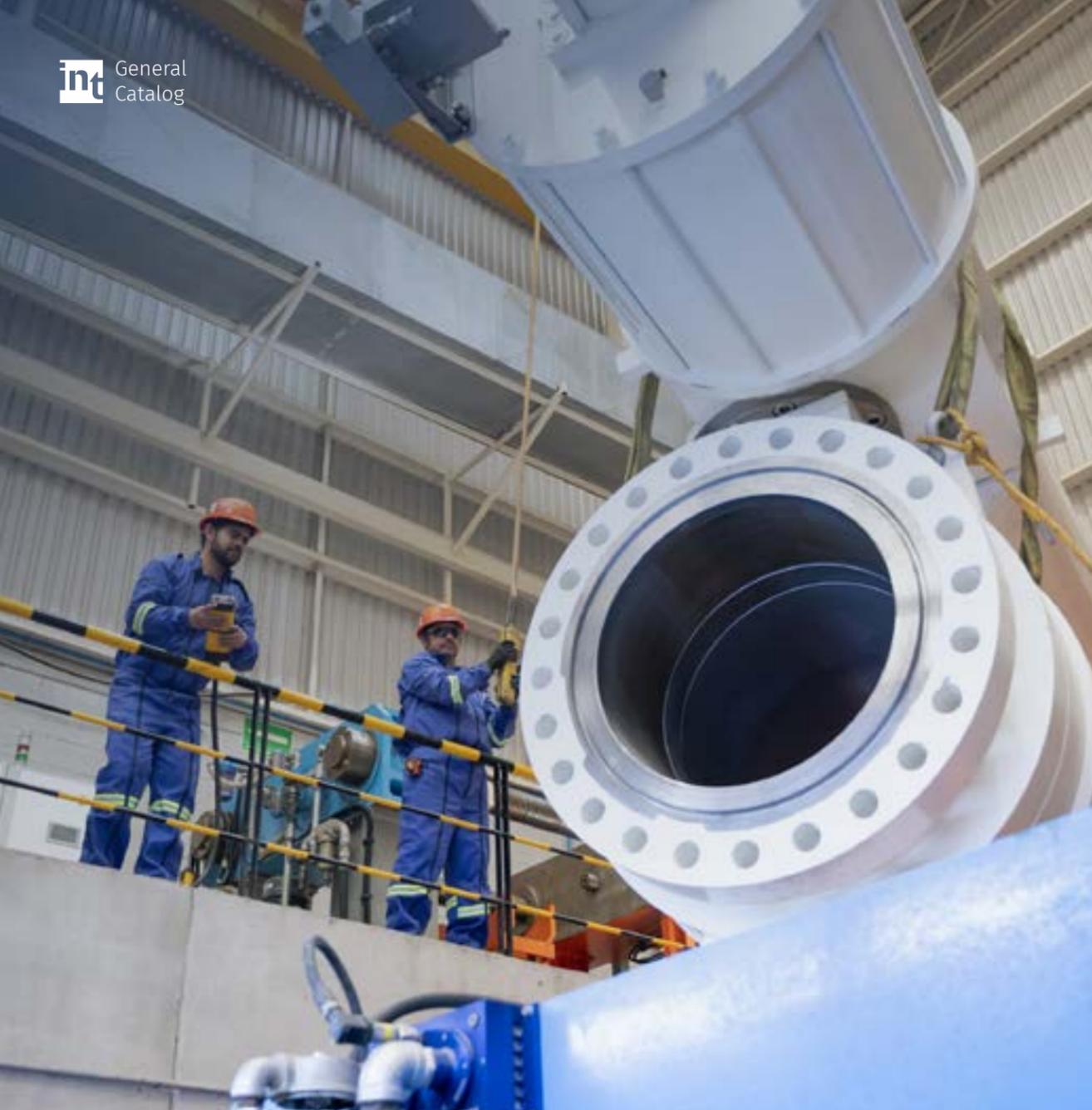
ISO
9001:2015

General Catalog



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Location

Based in the State of Mexico, the **Intesista** plant is 2,500 m² and includes machining and production areas for hydraulic or pneumatic actuation systems for rotary, linear, or multi-turn valves.

- Machining
- Production
- Shot blasting and painting
- Hydro test bench
- Welding
- NDT



Find us in
Google Maps



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It's been over two decades since **Intesista** was founded in 2002, when we began distributing valve automation systems. After 20 years of experience, we moved from distribution to the design and manufacturing of our own equipment.

Our quality is endorsed by certifications that position our company and products as a solid option when it comes to meeting the specific requirements of each customer project.

INTEGRATED POLICY

We are committed to providing our customers with quality automation products and services in a timely manner, in compliance with technical, legal, and administrative standards and obligations, through the continuous improvement of our quality management system. We also take into consideration occupational health and safety, as well as environmental protection.



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Content

Scotch Yoke

Scotch Yoke actuators provide high torque for the largest and heaviest valves. They can be manufactured to operate with instrument air or gas.

We provide communication protocol such as: Modbus, FF, DeviceNet, ASI, etc.



Type	Quarter-turn
Action	Double / Single
Material	Carbon Steel / Stainless Steel
Application	ON-OFF / Modulating
Design	IEC61508
Torque	Up to 13,500,000 lb.in
Temperature Range	-40°F to 212°F
Design Pressure	250 PSI
IP	IP67 / IP68
ATEX	Hazardous area
SIL Certified	YES

FEA: Finite Element Analysis for a Scotch Yoke mechanism.



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30. INTEGRATED POLICY

Linear



Type	Piston
Action	Double / Single
Material	Carbon Steel / Stainless Steel
Application	ON-OFF
Design	IEC61508
Thrust	Up to 20,000,000 lbF
Temperature Range	-40°F to 212°F
Design Pressure	250 PSI
IP	IP 67 / IP 68
ATEX	Hazardous area
SIL Certified	YES

Rack and Pinion

Rack and pinion actuators are widely used across various industrial processes, including pharmaceutical and food industries. They offer a simple design and low maintenance cost.

They are suitable for automating ball or butterfly valves that require quarter-turn motion.

We provide communication protocol such as:

Modbus, FF, DeviceNet, ASI, etc.



Type	Quarter-turn
Action	Double / Single
Material	Carbon Steel / Aluminum / Stainless Steel
Application	ON-OFF / Modulating
Design	ISO5211
Torque	Up to 66,561 lb.in
Temperature Range	-40°F to 212°F
Design Pressure	150 PSI
IP	IP 67 / IP 68
ATEX	Hazardous area
SIL Certified	YES

Motor Type

We are proud to provide valve actuators which exceeds our customers' expectations. Very complex specifications for actuators are common, reject for our competitors because the big challenge is a big issue. This is an opportunity for us to comply with all our customers' specifications. We manufacture specialty products.



Rotary

Hydraulic actuators are the foundation of many systems and are typically the first option when the user already has a Hydraulic Power Unit (HPU) from which power the oil flow required for operation.

Due to their higher operating pressure, they are more compact in size.

They also serve as the basis for self-contained systems with integrated HPUs and are the most commonly used option for backup systems with a Manual Hand Pump (MHP), making them extremely versatile and widely used.

If no hydraulic power source is available, they can operate using only human force through the manual backup, without the need for any external power.



Type	Quarter-turn
Action	Double / Single
Material	Carbon Steel / Stainless Steel
Application	ON-OFF / Modulating
Design	IEC61508
Torque	Up to 45,000,000 lb.in
Temperature Range	-40°F to 212°F
Design Pressure	3000 PSI
IP	IP 67 / IP 68
ATEX	Hazardous area
SIL Certified	YES

Linear



Type	Linear Hydraulic Piston
Action	Double / Single
Material	Carbon Steel / Stainless Steel
Application	ON-OFF / Modulating
Design	IEC61508
Thrust	Up to 20,000,000 lbF
Temperature Range	-40°F to 212°F
Design Pressure	3000 PSI
IP	IP 67 / IP 68
ATEX	Hazardous area
SIL Certified	YES

Rack and Pinion

For smaller-scale applications, the hydraulic rack and pinion actuator line combines the versatility of hydraulic actuators with the easy maintenance of compact,

low-component-count rack and pinion designs. **We provide communication protocol such as:** Modbus, FF, DeviceNet, ASI, etc.



Type	Quarter-turn
Action	Double / Single
Material	Carbon Steel / Aluminum / Stainless Steel
Application	ON-OFF / Modulating
Design	ISO5211
Torque	Up to 66,561 lb.in
Temperature Range	-40°F to 212°F
Design Pressure	3000 PSI
IP	IP 67 / IP 68
ATEX	Hazardous area
SIL Certified	YES

Rotary System



Type	Quarter-turn
Action	Double / Single
Material	Carbon Steel / Stainless Steel
Application	ON-OFF / Modulating
Design	IEC61508
Torque	Up to 45,000,000 lb.in
Temperature Range	-40°F to 212°F
Design Pressure	3000 PSI
IP	IP 67 / IP 68
ATEX	Hazardous area
SIL Certified	YES



Linear System

Electro-hydraulic systems use the versatility of hydraulic actuators even in locations without power supply availability. In such cases, they can be powered through solar panels and battery banks.

EH Series actuators are self-contained Hydraulic Power Units (HPUs) that can be installed directly on the valve.

For certain applications, the HPU can also be installed remotely.

This package provides a safe option when fail-to-close or fail-to-open is required, even in double-acting configurations.

We provide communication protocols such as: Modbus, FF, Device Net, ASI, etc.



Type	Linear hydraulic piston
Action	Double / Single
Material	Carbon Steel / Stainless Steel
Application	ON-OFF / Modulating
Design	IEC61508
Thrust	Up to 20,000,000 lbF
Temperature Range	-40°F to 212°F
Design Pressure	3000 PSI
IP	IP 67 / IP 68
ATEX	Hazardous area
SIL Certified	YES

Modulating System

Intesista electro-hydraulic modulating system can be used in hazardous areas. It can also function as a remote HMI for operation, configuration, and diagnostics.

The HMI cabinet is built in 316 stainless steel, NEMA 4X rated. The HMI displays local and remote operation menus, configuration options, and active alarms.

Applications include rotary valves such as ball, plug, butterfly, or dampers—especially where precise flow control is needed.

The simplified design of the electro-hydraulic system ensures high operational reliability.

HMI configuration does not require additional software or a PC connection.



Type	Quarter-turn
Action	Double / Single
Material	Carbon Steel / Stainless Steel
Application	ON-OFF / Modulating
Design	IEC61508
Thrust	Up to 20,000,000 lbF
Temperature Range	-40°F to 212°F
Design Pressure	3000 PSI
IP	IP 67 / IP 68
ATEX	Hazardous area
SIL Certified	YES

Rotary System

The gas-over-oil actuator is a hydraulic actuator which use high-pressure gas pipeline to move oil volume which powers the actuator.

We provide communication protocol such as: Modbus, FF, Device Net, ASI, etc.



Type	Quarter-turn
Action	Double / Single
Material	Carbon Steel / Stainless Steel
Application	ON-OFF
Design	IEC61508
Torque	Up to 13,500,000 lb.in
Temperature Range	-40°F to 212°F
Design Pressure	3000 PSI
IP	IP 67 / IP 68
ATEX	Hazardous area
SIL Certified	YES

Linear System



Type	Linear hydraulic piston
Action	Double / Single
Material	Carbon Steel / Stainless Steel
Application	ON-OFF / Modulating
Design	IEC61508
Thrust	Up to 20,000,000 lbF
Temperature Range	-40°F to 212°F
Design Pressure	3000 PSI
IP	IP 67 / IP 68
ATEX	Hazardous area
SIL Certified	YES

Rotary System

The Direct Gas actuator is a hydraulic actuator which use the pressure from a high-pressure gas pipeline to drive the oil volume that powers the actuator.

We support all communication protocols:
Modbus, FF, Device Net, ASI, etc.



Type	Quarter-turn
Action	Double / Single
Material	Carbon Steel / Stainless Steel
Application	ON-OFF
Design	IEC61508
Torque	Up to 13,500,000 lb.in
Temperature Range	-40°F to 212°F
Design Pressure	3000 PSI
IP	IP 67 / IP 68
ATEX	Hazardous area
SIL Certified	YES

Linear System



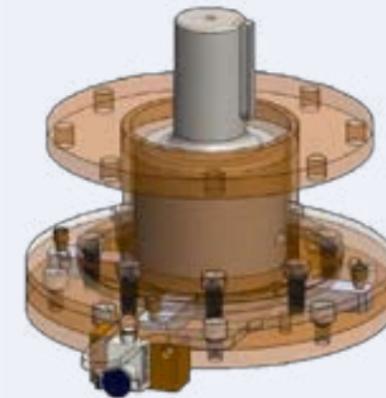
Type	Linear Pneumatic Piston
Action	Double / Single Acting
Material	Carbon Steel / Stainless Steel / Composite
Application	ON-OFF / Modulating
Design	IEC61508
Thrust	Up to 20,000,000 lb.F
Temperature Range	-40° F to 212° F
Design Pressure	3000 PSI
IP Rating	IP 67 / IP 68
ATEX	Hazardous area
SIL Certified	YES

Partial Stroke Test Device

The Partial Stroke Test (PST) device is a mechanical design incorporated into the valve-actuator coupling for valve functionality testing purposes. It allows users to verify valve operability without discontinuing the process.

The device limits the movement of the valve/actuator assembly to only 20% of its typical stroke (normally 90°, a quarter turn).

When the mechanism is assembled with the unique-code key, three stop limits avoid the coupling's movement and stop the stroke. **Intesista** provides a SIL-certified design for both rotary and linear actuators.



Hydraulic Power Units

These units can supply one or more actuators, and each is specifically designed to meet the needs of a given project.

We provide communication protocol such as:
Modbus, FF, DeviceNet, ASI, etc.

- Mineral or biodegradable oil
- PLC-based or electromechanical electrical design
- Pumps with electric or pneumatic motors
- Piston or bladder-type accumulators, based on the number of backup strokes required
- Local and remote control
- Level, pressure, and voltage control
- Pressure and voltage transmitter
- Pressure and level transmitter (4-20 mA)



Construction Type

Rack-mounted assembly containing all components such as reservoir, pumps, accumulators, and control panel

Material

Carbon Steel / Stainless Steel

Application

ON-OFF / Modulating

Design

Customer-specified

Temperature Range

-40° F to 212° F

Design Pressure

3000 PSI

IP Rating

IP 67 / IP 68

Declutchable Gearboxes

The compact design of declutchable gearboxes provides precise and smooth motion for quarter-turn valve applications. These are specifically engineered to ensure optimal performance quickly and efficiently when the main actuator power supply is unavailable.

Designed in accordance with ISO 5211, offering output torque up to 85,852 lb.in



Safety Locks

Intesista's ITS series safety locks replace standard hex nuts on valve studs in wells, following standards: R-24, BX-152, BX-154, BX-169; in sizes 1/2", 5/8", 1", 1 1/8", 1 1/4", 1 3/8", and 1 1/2", for pressure ratings of 5000, 10,000, and 15,000 PSI.

They can only be installed or removed using their unique-code security key. The stud and

stem are made from heat-treated AISI 4140 steel, finished with blue Xylan 10702/1024 electroplating.

They exceed ASTM-A354 Grade BC tensile and elongation requirements, and are resistant to corrosion and abrasion caused by hydrogen sulfide (H₂S, 7 ppm). Tested with 32-day salt spray corrosion resistance.

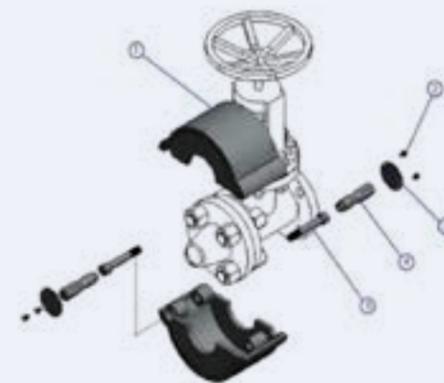


Protective Shields

Intesista ICB series flange safety locks require a special **Intesista** brand key (model ILC with a unique code), which can be designed for a single-key configuration for all safety bolts, or multiple keys based on valve size and/or model. They are easy to install on all well valve brands such as FIP, Cameron, FMC, Motomecánica, etc.

Standard left or right-hand thread in accordance with ASTM-A193 specifications.

Installed on well valve flanges following standards R-24, BX-152, BX-154, BX-169, for pressure ratings of 5,000, 10,000, and 15,000 PSI. Made from heat-treated 4140 steel, with **Intesista** ITS series safety nuts, also heat-treated and coated with blue Xylan 10702/1024. Corrosion and abrasion resistant to hydrogen sulfide (7 ppm). Tested with 32-day salt spray corrosion resistance.

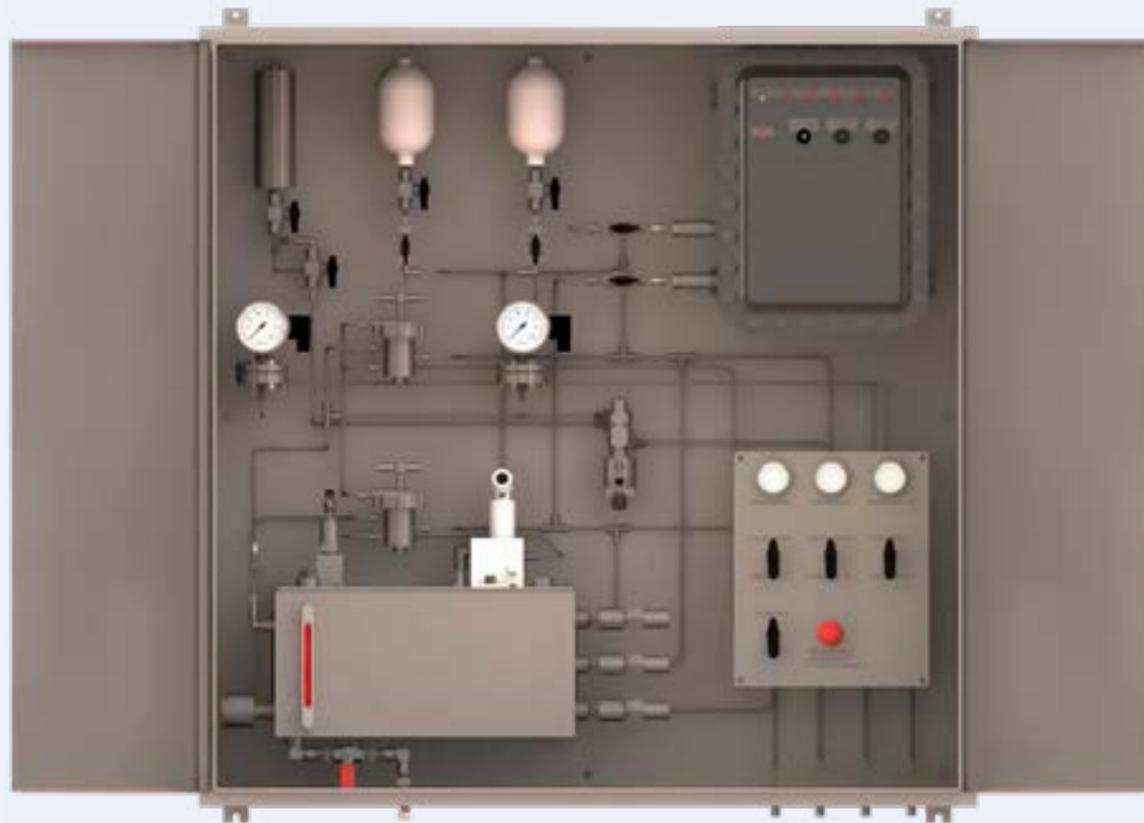


Well Control Panel

The control panel operates the well valve actuators using sequential logic while considering the system's operational pressure limits (high and low). The sequence is fully programmable.

The panel can also operate automatically in response to any of the following emergency conditions:

- Fire (fusible plugs)
- Push button activation from the panel
- Hydraulic supply failure
- High-pressure shutdown
- Low-pressure shutdown



Industry Applications

In addition to actuation systems, **Intesista** manufactures control panels for a wide range of process applications. These include oxygen regulation panels and gas sampling systems (Samplers), fully built in stainless steel, customized to client specifications.



Capabilities

We have a machining center for the manufacturing of our actuators, as well as various accessories related to equipment control, such as manifolds.

All equipment is inspected under our quality management system to ensure the delivery of products that meet required specifications. Factory Acceptance Testing (FAT) protocols are carried out for all units.

We also have a hydrostatic test bench for leak testing on valves up to 36" 1500 ANSI, either as a standalone valve service or as part of a complete valve/actuator assembly test. All results are included in the quality dossier for each product.

Our facilities are equipped with painting application systems and shot blasting equipment to clean components down to white metal. This allows for high-quality finishes using System 2, System 3, RAM 100, Stainless Steel System #12, System 17, and Hempel Epoxy Filler—meeting all adhesion and thickness testing standards.



SERVICES | FAT

Factory Acceptance Testing

We carry out both corrective and preventive maintenance either on-site or at our facilities, and we perform operational testing to deliver fully functional equipment. Maintenance services are available for our products as well as for the most well-known brands in the market. We also refurbish actuators, control systems, and valves.



SERVICES

Maintenance

Corrective

Our team diagnoses the equipment and can resolve the issue on-site or, if necessary, remove the equipment for in-shop repairs. With over 20 years of experience, we are committed to supporting our clients and keeping their operations running.



Preventive

As part of our after-sales service and service catalog, we offer preventive maintenance to help identify and address potential issues early—ensuring your equipment continues to operate without interruption.



SERVICES

Training

With over 20 years of experience in the market, we aim to share our knowledge with clients by offering specialized training for the specific types of equipment installed at their facilities. We tailor the schedule to maximize convenience and effectiveness. Training can be conducted at our facilities or on-site and includes hands-on sessions.



Integrated Policy



Intesista is committed to providing high-quality automation products and services in a timely manner, complying with technical, legal, and administrative regulations, as well as contractual commitments. This is achieved through the continuous improvement of our quality management system, with full consideration for occupational health and safety, and environmental protection.



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