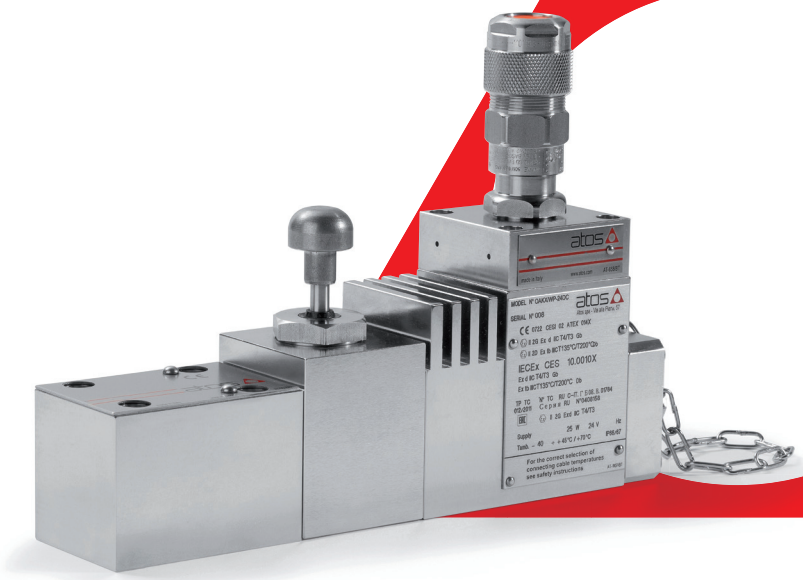
Stainless steel electrohydraulics

The highest resistance to low temperatures, corrosive atmospheres and fluids, in hazardous environments

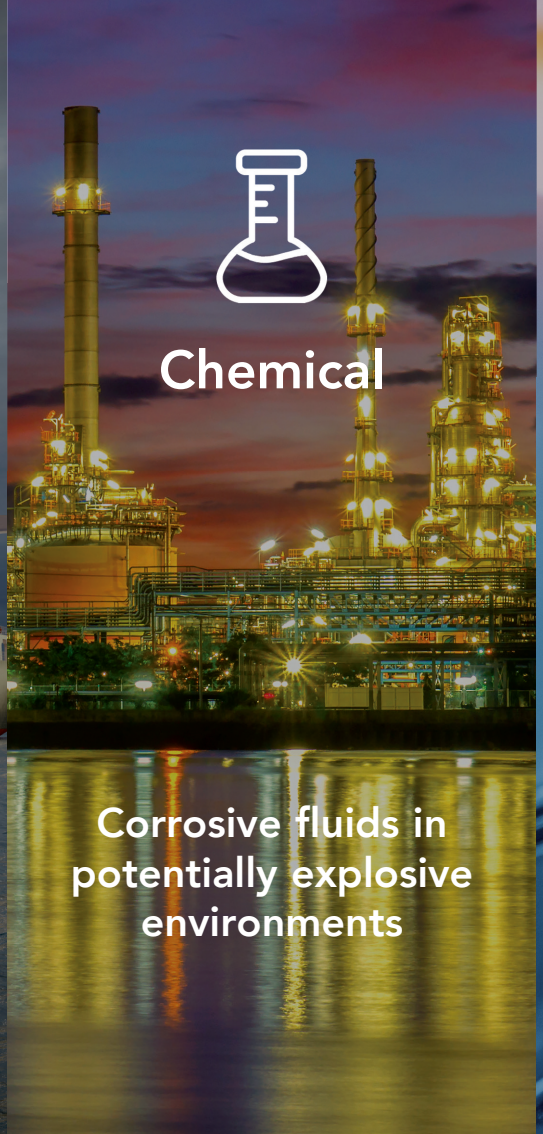


atos

the smart electrohydraulics

Marine

Corrosive atmospheres in potentially explosive environments



Chemical

Corrosive fluids in potentially explosive environments

Food

Pure water as hydraulic fluid to avoid contaminations

Stainless steel electrohydraulics

- **Extreme temperatures**, full compatibility with a wide range of temperatures according to selected execution, even for polar environments

EXTENDED BT −40° | POLAR BBT −60° | EXTENDED PE +80°

- **Multi-fluid compatibility**, specific options allow correct seals selection according to the hydraulic fluid, also for fluids with very high percentage of water or even pure water

MINERAL OIL | FIRE PROOF | ECO FRIENDLY | PURE WATER

- **Multi-certified components** according to international directives and regulations for safe operations in environments with potentially explosive mixtures of liquids, gases and dusts

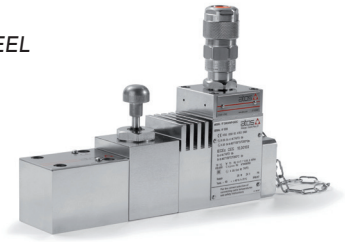
EUROPE | CHINA | INTERNATIONAL

EURASIAN | INDIA | NORTH AMERICA

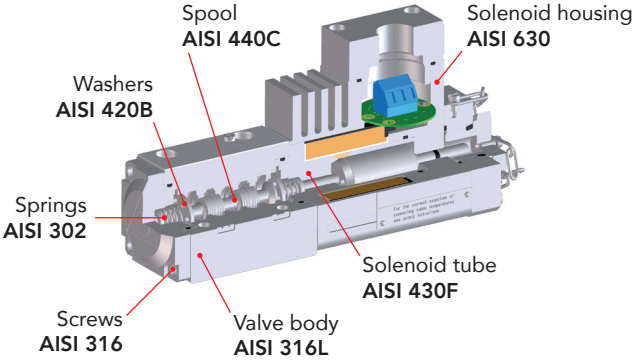
Stainless steel executions

X *FULL* *STAINLESS STEEL*

POLAR BBT −60°



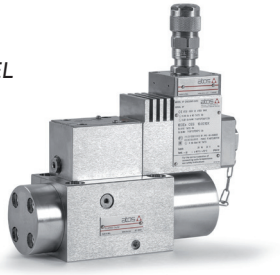
All parts are stainless steel made for a complete protection of valve external and internal surfaces



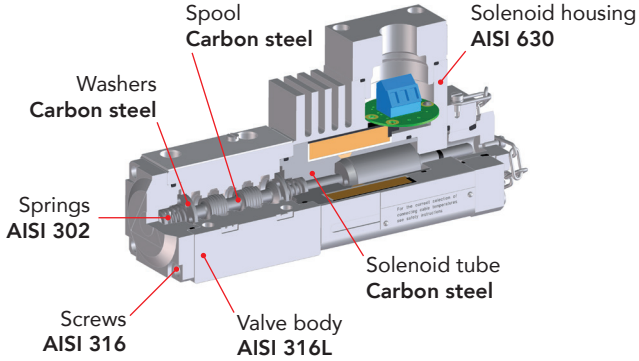
Suitable for applications which require water-based fluids or pure water, in presence of corrosive or salty atmospheres

XS *EXTERNAL* *STAINLESS STEEL*

+1000h SALT SPRAY



Only external parts are stainless steel made, while internal parts are carbon steel made

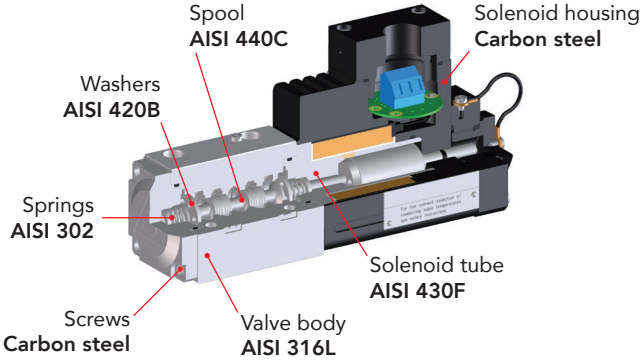


Suitable for applications which require standard mineral oils or synthetic fluids, in presence of corrosive or salty atmospheres

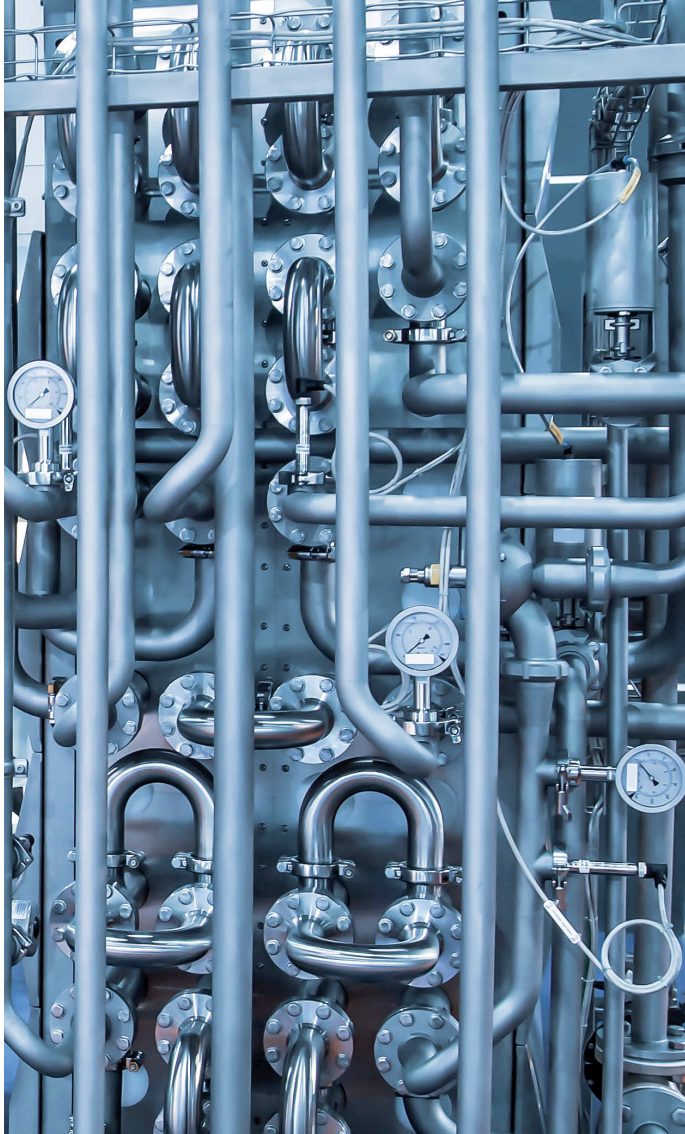
XW INTERNAL
STAINLESS STEEL

PURE WATER

Only internal parts are stainless steel made, while external parts are mainly carbon steel made

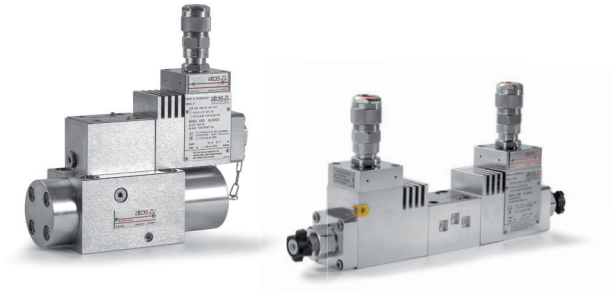


Suitable for applications which require water-based fluids or pure water, in absence of corrosive or salty atmospheres



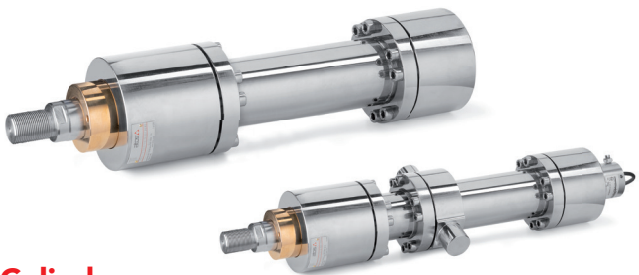
Stainless steel range

The most complete range of electrohydraulics components for extreme environments, from on-off valves to complete systems. Stainless steel components can operate in potentially explosive environments thanks to ex-proof certifications



Ex-proof on-off valves

On-off valves



Cylinders

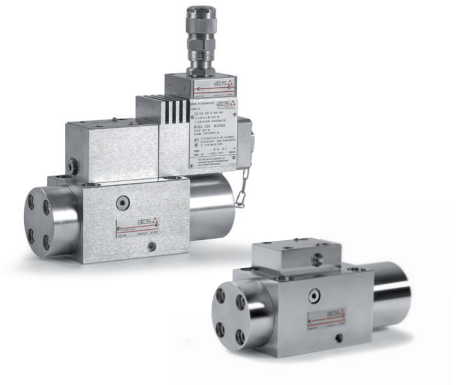
System

On-off valves

A full range of stainless steel valves to satisfy the most demanding applications in extreme environments

Directional valves

Hydraulic operated valves or solenoid valves with ex-proof certification. Standard leakage or leak-free executions



Subplate valves • **ISO sizes** 06 ÷ 16

Qmax 220 l/min • **Pmax** 350 bar

Pressure valves

Relief cartridges or modular valves, poppet type. Optional PED Pressure Equipment Directive certification

Screw-in cartridges • **sizes** G ½" ÷ M35

Qmax 150 l/min • **Pmax** 420 bar

Modular valves • **ISO size** 06

Qmax 35 l/min • **Pmax** 350 bar

ISO cartridges

High flow pressure relief ISO cartridges and functional covers

Cartridges • **ISO size** 25

Qmax 370 l/min • **Pmax** 350 bar

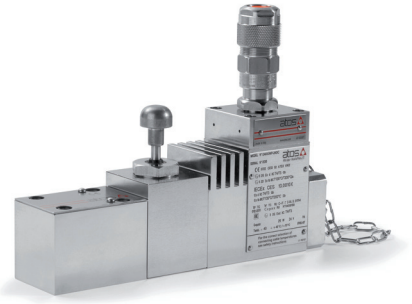
Safety

The Atos range includes specific executions aimed to increase the safety level in corrosive environments

SIL certification

Safety Integrity Level directive states the max acceptable level of risk in process control systems, in order to reduce hazardous events

The stainless steel range offer directional valves dedicated to functional safety, certified SC3 up to SIL2 / SIL3 according to IEC 61508



Subplate valves • **ISO sizes** 06 ÷ 16

Qmax 220 l/min • **Pmax** 350 bar

PED certification

Pressure Equipment Directive regulates the design, manufacture and conformity assessment of pressure equipment

The stainless steel range offer pressure relief cartridges certified according to PED 2014/68/EU

Screw-in cartridges • **sizes** G ½" ÷ M35

Qmax 150 l/min • **Pmax** 420 bar

Cylinders

Standard range of full stainless steel ISO 6020-1 cylinders and servocylinders to provide the highest resistance to corrosive environments and fluids

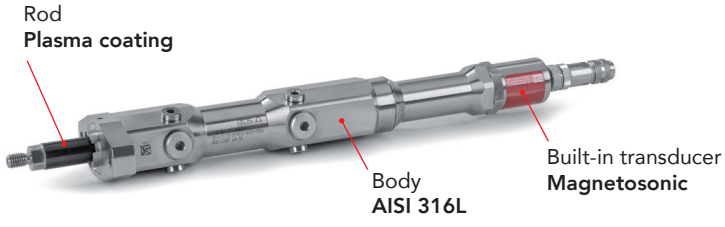
Optional stainless steel built-in position transducer for high precision motion control

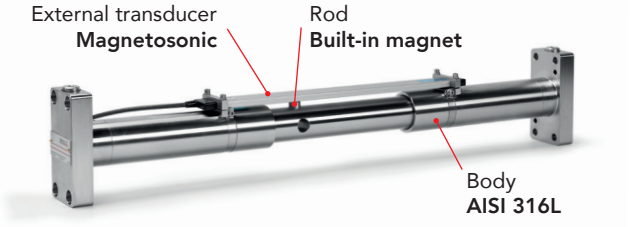
Bore Ø 50 ÷ 100 mm

Pmax 150 bar

Special applications

Cylinders can be customized in order to fulfil functional or environmental requirements of the most demanding sectors





Beverage packaging

Engineered with materials suitable for food contact and specific shapes to avoid deposits of processing residues, according to Hygienic Design directive

Railway cross switching

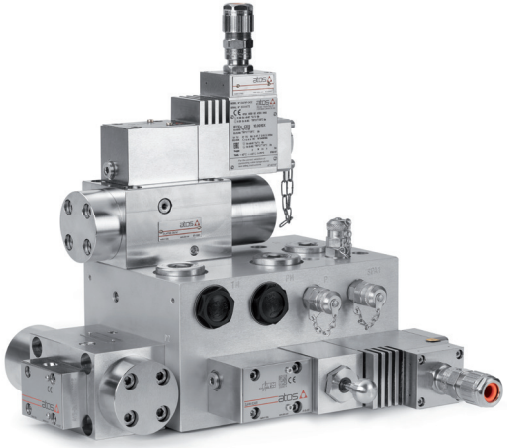
Ultra-slim design for easy field maintenance and extended operative life in outdoor environments with temperatures down to -40°C

Systems

Power units for marine, oil & gas, energy and chemical sectors, engineered for operations in corrosive environments and/or with water-based fluids. Certified by TÜV, DEKRA, UL, CSA, ABS, BV, DNV GL, RINA

Stainless steel power units for LNG vessel or off-shore/on-shore rigs are designed according to explosion proof directive for safe operations in environments with presence of flammable gas, vapours or combustible dust Certified ATEX, IECEx, EAC up to zone 1

Hydraulic blocks tailored for extreme working conditions, also in potentially explosive environments



Full stainless steel blocks simultaneously satisfy the requirements for the most demanding applications for corrosive environments with extreme temperatures and water-based fluids

Worldwide Sales Organization

A sales network with 25 branches, 120 sales professionals and distributors in more than 80 countries, together with great responsiveness and focus on customers

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