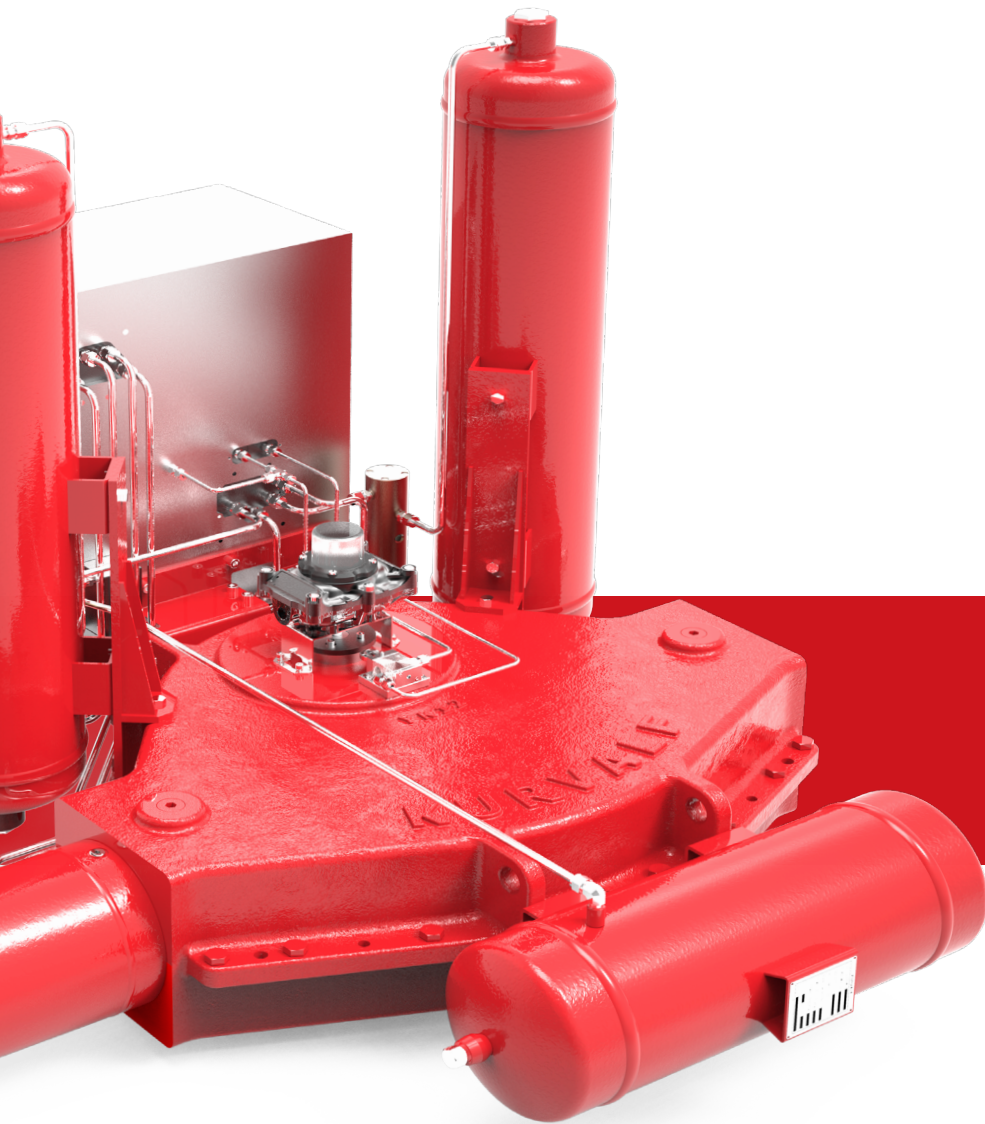


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ACTUATORS

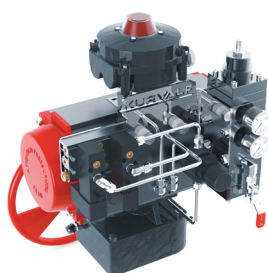
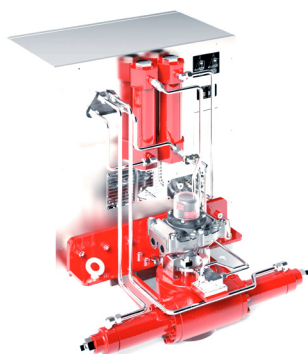
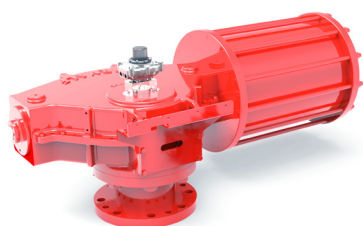
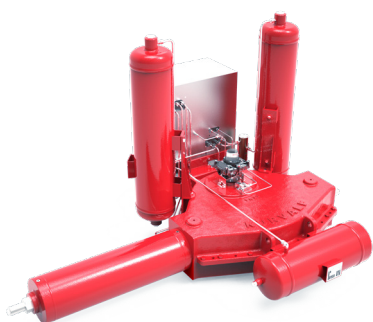


SCOTCH YOKE
DESIGN
HEAVY-DUTY
ACTUATORS



SCOTCH YOKE DESIGN HEAVY-DUTY ACTUATORS

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Kurvalf scotch yoke actuators has canted and symmetric designs. They perform perfectly over on all quarter turn valves. Due to made from casted steel construction and as a design requirement Kurvalf scotch yoke actuators work flawlessly in harsh and demanding conditions.

Scotch yoke actuators maintain manual override such as manual hand wheel or hydraulic hand pump. ESD, fail-safe and other all control systems are optional. Scotch yoke actuators come with speed adjustment valves according to customer specification.



Operating Pressure
12 bar to 140 bar



Torque up to
350.000 Nm



Temperature °C
-60° to +140°

CONTROL MECHANISMS

- Low maintenance.
- Adjustable switches by the end user according to conditions of the field.
- Working with direct line pressure without the need of a regulator.
- Tubing diameters for optimum gas or hydraulic oil flow.
- Resistant to corrosive and abrasive environments.
- Wide range of uses.

AVAILABLE TYPES

- Low pressure actuators
- High pressure actuators
- Pneumatic actuators
- Line break actuators
- Hydraulic actuators
- Rack and pinion actuators
- Manual override actuators
- Gas over oil actuators





High Pressure ESD:

When line pressure exceeds the adjusted level, system automatically stops or opens the flow line with a pneumatic signal.



Low Pressure ESD:

When line pressure drop down below than adjusted level, system automatically stops or opens the flow line with a pneumatic signal.



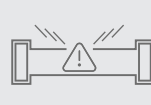
Differential Pressure Switch (DPS):

System does not allow to on-off operation when differential pressure exceeded the adjusted level.



Scotch Yoke:

Generates turning force, by transforming the thrust of hydraulic cylinder to the momentum on the valve stem. Symmetric and canted type yoke are available



Line Break:

The system switches the actuator to off position in case of the sudden pressure drop in the line.



Remote Control:

Allows to control the actuator from the system center, sends the current position of the actuator as a signal to SCADA, and also gives remote command to actuator.



Position Indication:

It indicates the current position of the actuator and also sends the position signals to SCADA.



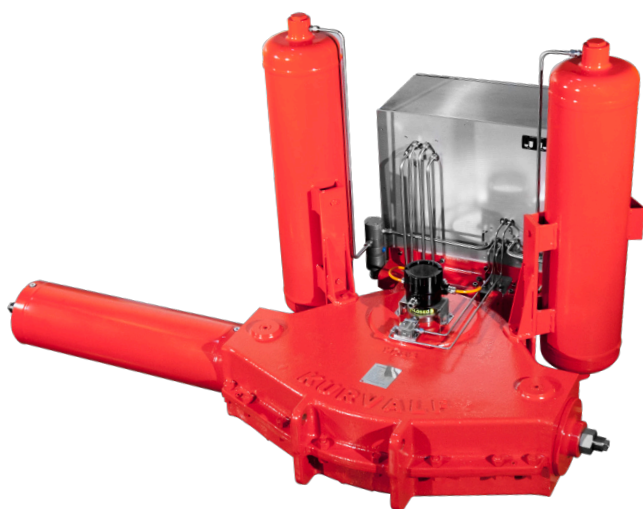
User Friendly Design:

Designed for practical use in the field by considering the user mistakes.



GAS OVER OIL ACTUATORS

KURVALF



MAIN FEATURES

- Symmetric / Canted scotch yoke design.
- Double acting hydraulic piston.
- Adjustable ESD and differential pressure switches.
- High pressure solenoid valves.
- Atex Ex d certified bobbin and switch box.
- Line break system.
- Electric fail safe system.
- Up to 350.000 Nm Torque range.
- Working under heavy conditions between -60°C / +120°C.
- Working up to 140 bar press.

APPLICATION AREAS

- | | |
|--------------------------|-----------------------|
| • Gas transmission lines | • LNG Facilities |
| • Production lines | • LNG Lines |
| • Measurement Stations | • Compressor Stations |
| • Dehydration Systems | • CO2 Services |
| • Gas Separator Systems | • Marine Platforms |
| • Gas Storage Systems | • Submarine |

APPLICATION STANDARDS

ATEX ex-proof standards for electrical devices, ISO 5211 standard for fittings and other common industrial standards.

PRODUCT RANGE

DN; 2"-40" Pressure Classes; ANSI 150-300-600 and up to custom class and diameters depending on customer's request.



PNEUMATIC ACTUATORS

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APPLICATION AREAS

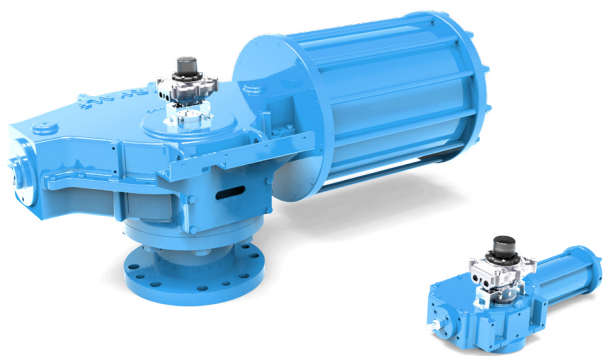
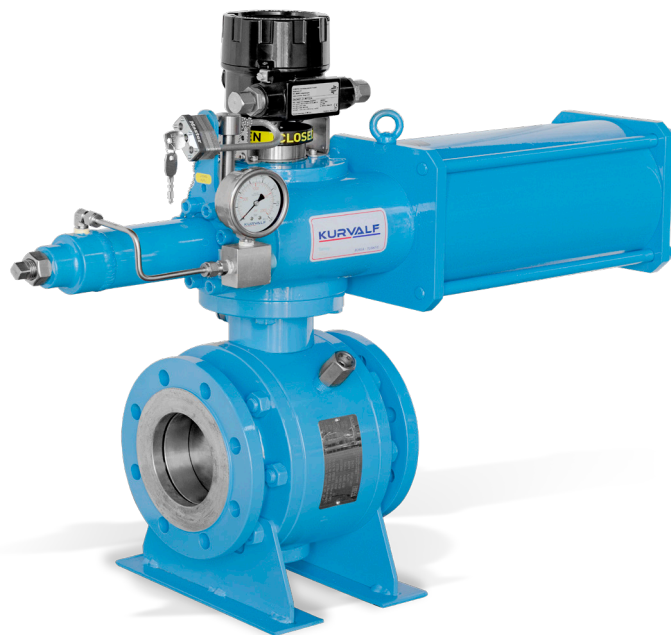
- Dehydration Systems
- Gas Separator Systems
- Gas Storage Systems
- LNG Facilities
- LNG Lines
- Compressor Stations
- CO2 Services
- Marine Platforms
- Submarine

APPLICATION STANDARDS

ATEX ex-proof standards for electrical devices, ISO 5211 standard for fittings and other common industrial standards.

PRODUCT RANGE

DN; 2"- 48" Pressure Classes; ANSI 150-300-600 and up to custom class and diameters depending on customer's request.

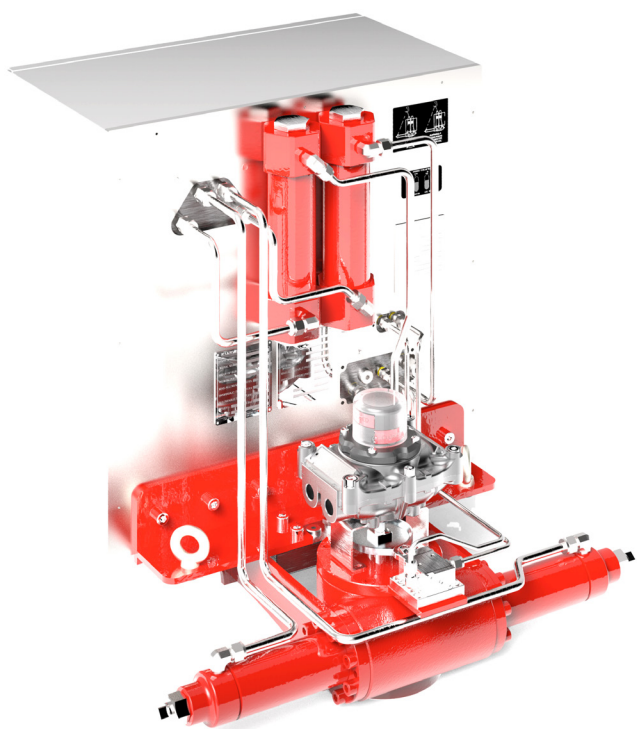


MAIN FEATURES

- Symmetric / Canted scotch yoke design.
- Double acting or single acting pneumatic pistons.
- Normally close or open operation with spring return.
- High quality solenoid valves.
- Atex Ex d certified bobbin and switch-box.
- 400 Nm - 73609 Nm Torque range. (Up to 350.000 Nm custom orders)
- Working under heavy conditions between -40° C / + 80° C.
- 6 - 12 bar working pressure.
- Mechanical locking mechanism for spring return actuators.
- Manual control with hand-wheel.
- Quick closure with quick exhaust valves.

RACK & PINION ACTUATORS

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APPLICATION AREAS

- Gas transmission lines
- Production lines
- Measurement Stations
- Dehydration Systems
- Gas Separator Systems
- Gas Storage Systems
- LNG Facilities
- LNG Lines
- Compressor Stations
- CO2 Services
- Marine Platforms
- Submarine

APPLICATION STANDARDS

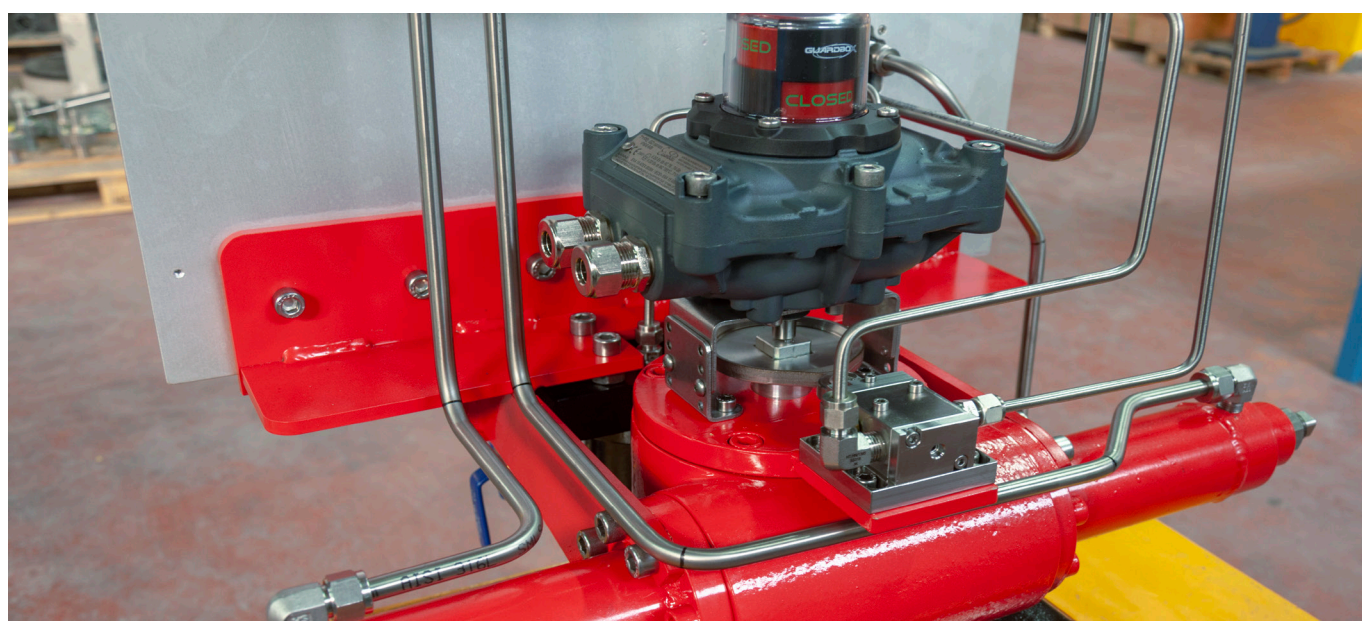
ATEX ex-proof standards for electrical devices, ISO 5211 standard for fittings and other common industrial standards.

PRODUCT RANGE

DN; 2 "-12" Pressure Classes; ANSI 150-300-600 and up to custom class and diameters depending on customer's request.

MAIN FEATURES

- Simple rack & pinion design.
- Double side single acting hydraulic or pneumatic pistons.
- Adjustable ESD and differential pressure switches.
- High or low pressure solenoid valves can be used according to model or project specification.
- Atex Ex d certified bobbin and switch-box.
- 100 Nm - 4000 Nm Torque range.
- Working under heavy conditions between -40 ° C / + 80 ° C.
- Working up to 168 bar press.
- Mechanical locking mechanism for spring return actuators.





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