



**YOUR SUPPLIER
OF VALVES TO
THE OIL & GAS
INDUSTRY**



www.aosoffshore.com



ABOUT US

AOS Offshore is a leading provider of high-quality valves, actuators and related services to the oil and gas industry.

Our mission is to deliver superior quality, this is our contribution to efficient, reliable and safe energy product.

Through our values; Competent, Flexible and Trustworthy, we strive to meet our vision of Supply Chain Excellence. Valvision and their predecessors, have a long and solid track record, going all the way back to the early 1990's.

Our valve specialists have unique and extensive experience with valves and mechanical equipment in the marine, onshore and offshore industries, and offer access to a network of collaborators in the valve business. Our strong customer relationships are based on the ability over time, meet the high quality requirements specified by the industry. Our experienced service engineers have all the necessary certifications, and can be mobilised both onshore and offshore.

You can find us in Norway, Italy, the UK, South Korea and Singapore.

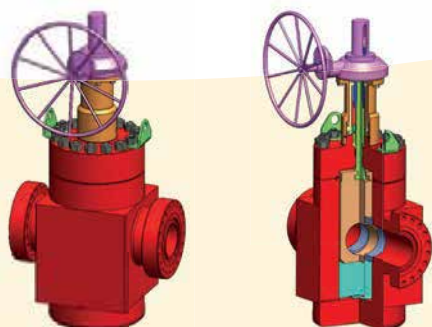
For more information about our products and services, visit our website; www.aosoffshore.com

We are at your service.

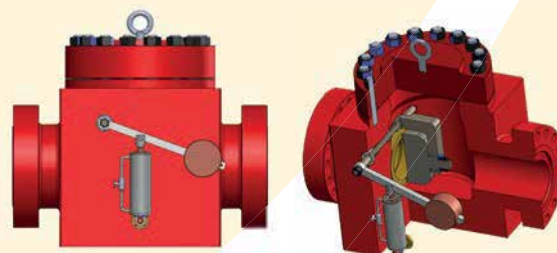
PRODUCT AND SERVICE OFFERINGS

- Supply of API 6A products: gate valves, check valves, mud valves, choke valves, frac valves and cross blocks.
- Supply of API 6B valves and Actuators.
- Complete Choke and Kill, Standpipe, mud and cement manifolds in accordance to API standards.
- End to end project management from fabrication to installation and commissioning.
- Complete SPS re-certification of manifolds carried out at client site, offshore or onshore to industry standards.
- NDT inspections.
- Leasing arrangements for complete Choke and Kill, Cement and Mud manifolds.

Slab Gate Valve / API 6A



Check Valve / API 6A



EC & EF (FC TYPE AND FLS TYPE) SLAB GATE VALVE

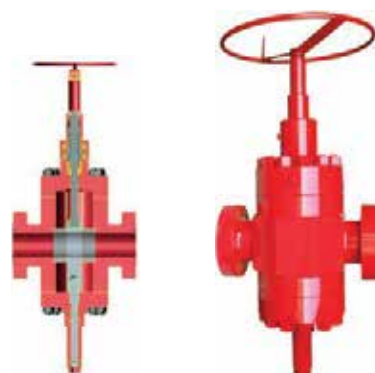
PRODUCT PRESENTATION

- Working Pressure: 2000Psi~20000Psi
- Nominal Size: 1-13/16"~9" (46mm-230mm)
- Working Temperature: -46°C ~ 121°C (LU)
- Material Class: AA, BB, CC, DD, EE, FF, HH
- Product Specification Level: PSL1-PSL4
- Performance Requirement: PR1-PR2
- Service: oil, natural gas, mud, gas contains H₂S, CO₂
- **Advantages**
 - Full bore design, eliminating pressure drop and turbulence.
 - Special sealing structure which could decrease the open/ close torque.
 - Metal to metal sealing is adopted between body and bonnet, as well as gate and seat.
 - Supersonically spray hard alloy for the gate, and whole hard alloy for seat with good abrasive resistance and corrosion resistance.
 - Seats are fixed by retainer plates, with good stability.
 - The stem is designed with back sealing facility, the stem packing can be replaced under pressure.
 - One side of bonnet is designed with sealant injection to supply sealant and improve sealing and lubrication performance of gate and seat.
 - All types EFC gate valves can complete with different pneumatic (hydraulic) actuator upon user's requirements.



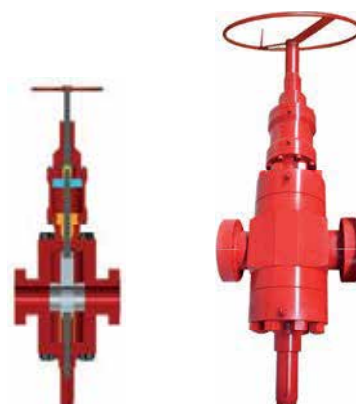
E-L600 TYPE BALL SCREW OPERATED GATE VALVE

- Working Pressure: 5000Psi~20000Psi
- Nominal Size: 3-1/16" ~13-5/8" (78mm-346mm) - Working Temperature: -46°C ~ 121°C (LU)
- Material Class: AA, BB, CC, DD, EE, FF, HH
- Product Specification Level: PSL1-PSL4
- Performance Requirement: PR1-PR2
- Service: oil, natural gas, mud, gas contains H₂S, CO₂
- **Advantages**
 - Supersonically spray hard alloy for the sealing surfaces to prolong the service life.
 - Ball screw operated for the open/close of the valve which reduces the torque value to 1/3 of normal valve. With balancing stem structure which reduces the torque and equipped with open / close indication function.
 - With spring energy accumulated sealing structure for stem packing and seat sealing which enables reliable seal.
 - Applicable for large sizes and high pressure valves.



MANUAL-HYDRAULIC SLAB GATE VALVE

- Working Pressure: 2000Psi~20000Psi
- Nominal Size: 1-13/16" ~13-5/8" (46mm-346mm) - Working Temperature: -46°C~121°C (LU)
- Material Class: AA, BB, CC, DD, EE, FF, HH
- Product Specification Level: PSL1-PSL4
- Performance Requirement: PR1-PR2
- Service: oil, natural gas, mud, gas contains H₂S, CO₂
- **Advantages**
 - Full bore design, eliminating pressure drop and turbulence.
 - With balancing stem structure which could reduce the open / close torque.
 - It can be operated by hydraulic piston for normal situation, it can be closed by hand wheel for emergency. Metal to metal sealing is adopted between body and bonnet, as well as gate and seat.
 - Supersonically spray hard alloy for the gate, and whole hard alloy design for seat. with good abrasive resistance and corrosion resistance.
 - Seats are fixed by retainer plates, with good stability.
 - The stem is designed with back sealing facility, which could prevent pressure ingress into the stem packing area.
 - One side of bonnet is designed with sealant injection to supply sealant and improve sealing and lubrication performance of gate and seat.



PRODUCT PRESENTATION

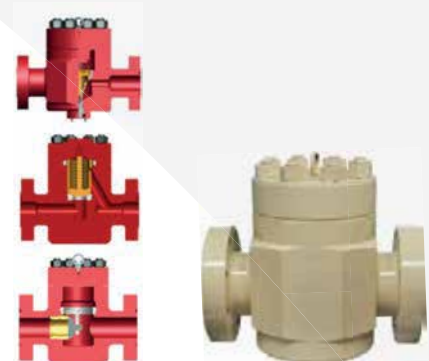
E-L 300 TYPE GLOBE VALVE

- Working Pressure: 2000Psi~20000Psi
- Nominal Size: 2-1/16" ~7-1/16" (52mm~230mm)
- Working Temperature: -46°C ~ 121°C (LU)
- Material Class: AA, BB, CC, DD, EE, FF, HH
- Product Specification Level: PSL1-PSL4
- Performance Requirement: PR1-PR2
- Service: oil, natural gas, mud, gas contains H₂S, CO₂
- **Advantages**
 - Overlaying hard alloy on the seat and disc to improve the erosion resistibility and prolong the service life.
 - Metal to metal sealing is adopted between body and bonnet, as well as disc and seat. Rising stem structure, clearly indicate the open/close positions.
 - No contact between the stem thread and the medium to reduce the stem thread corrosion caused by the medium.
 - Low open / close torque value and reliable sealing performance.



E-L700 TYPE CHECK VALVE

- Working Pressure: 2000Psi~15000Psi
- Nominal Size: 2-1/16" ~7-1/16" (52mm~180mm)
- Working Temperature: -46°C~121°C (LU)
- Material Class: AA, BB, CC, EE, FF, HH
- Product Specification Level: PSL1-PSL4
- Performance Requirement: PR1-PR2
- Service: oil, natural gas, mud, natural gas contains H₂S, CO₂
- **Advantages**
 - Reliable sealing performance.
 - Low noise, less vibratility.
 - Three types: Lifting type check valve, swing check valve, and piston check valve.



E-L500 TYPE MUD VALVE

- Working Pressure: 2000Psi~7500Psi
- Nominal Size: 2", 3", 4", 5"
- Working Temperature: -46°C~121°C (LU)
- Service: oil, natural gas, mud, gas contains H₂S, CO₂
- **Advantages**
 - Seat and rubber are vulcanized as an integral structure, convenient to install and maintain. Double threads drive with quick open and close.
 - Reliable seal, long service life.
 - Connection type: flange, union, threaded and welding.



E-L 300 TYPE ADJUSTABLE CHOKE VALVE

- Working Pressure: 2000Psi~15000Psi
- Nominal Size: 1-13/16" ~7-1/16" (46mm-180mm)
- Working Temperature: -46°C ~ 121°C (LU)
- Material Class: AA, BB, CC, DD, EE, FF
- Product Specification Level: PSL1-PSL4
- Performance Requirement: PR1-PR2
- Service: oil, natural gas, mud, gas contains H₂S, CO₂
- **Advantages**
- Hard alloy material for seat and needle to improve the corrosion resistibility and erosion resistibility.
- Self-tight energizing sealing for stem, maintains reliable sealing performance.
- Low fluid impacting and low noise.
- Four Types: needle type, sleeve type, orifice and cage type choke valves.

PRODUCT PRESENTATION



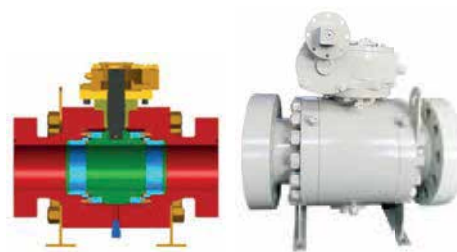
E-L200 TYPE EXPANDING GATE VALVE

- Working Pressure: 2000Psi~10000Psi
- Nominal size: 1-13 / 16" ~7- 1/16" (46mm-180mm)
- Working Temperature: -46°C ~ 121°C (LU)
 - 18°C~180°C (X class)
 - 18°C~345°C (Y class)
- Material Class: AA, BB, CC, DD, EE, FF, HH
- Product Specification Level: PSL1-PSL4
- Performance Requirement: PR1-PR2
- Service: oil, natural gas, mud, gas contains H₂S, CO₂
- **Advantages**
- Full bore design, eliminating pressure drop and turbulence.
- Mechanical seal structure for valve gate which can perform reliably without fluid pressure. Low open/ close torque value and low wear between gate and seat.
- Metal to metal sealing is adopted between body and bonnet.
- Both Metal to metal sealing and soft sealing can be adopted between gate and seat. Grease can be injected regularly to improve the sealing performance.



E-L400 6A TYPE BALL VALVE

- Working Pressure: 2000Psi~ 10000Psi
- Nominal size: 2~1 / 16" ~9" (52mm~230mm)
- Working Temperature: -46°C ~ 121 °C I LU)
- Material Class: AA, BB, CC, DD, EE, FF, HH
- Product Specification Level: PSL1-PSL4
- Performance Requirement: PR1-PR2
- Service: Oil, natural gas, mud, gas contains H₂S, CO₂
- **Advantages**
- Floating seats design makes sealing performance between ball and seats more reliable. Worm gear operated, with low open/close torque.
- With fire safe and anti-static design.
- Three types: 3 pieces, 2 pieces and top entry ball valves.



HIGH PRESSURE PLUG VALVE

- Working Pressure: 1 0000Psi~ 15000Psi
- Nominal size: 2" x 1", 2", 3", 4"
- Working Temperature: -46°C ~ 121°C (LU)
- Material Class: AA, BB, CC, DD, EE, FF, HH
- Product Specification Level: PSL3-PSL4
- Performance Requirement: PR1-PR2
- Service: Oil, natural gas, mud, gas contains H₂S, CO₂
- **Advantages**
- Connection: flange, union, welding.
- High pressure containing and low open/close torque.
- Simple structure, convenient to install and maintain.



DRILLING SPOOL

- Working Pressure: 5000Psi~15000Psi
- Nominal Size: 4-1/16" ~13-5/8" (103.2mm~346.1 mm)
- Working Temperature: -46°C ~ 121°C (LU)
- Material Class: AA, BB, CC, DD, EE, FF, HH
- Product Specification Level: PSL1-PSL4
- Performance Requirement: PR1-PR2
- Service: oil, natural gas, mud, gas contains H₂S, CO₂
- **Advantages**
 - It is pressure containing equipment with API 6A standard ends, installed under equipment or between two equipments, with function of separating, adapting and outlet providing.
 - It is designed with three or four outlets which meet the API 6A requirements.
 - It is the main facility for hydraulic BOP which prevents the blowout and controls the well pressure of casing and conduit to restore the pressure of mud column to well bottom, as well as control the overflow.
 - The discharging function of BOP valve and manifold will reduce casing head pressure and protect BOP stack.



WELLHEAD PARTS - FLANGE, TEE, CROSS, ADAPTER

- Working Pressure: 2000Psi~20000Psi
- Nominal Size: 1~13/16" ~ 21-1/4"
- Working Temperature: -46°C ~ 121°C (LU)
- Material: 60K, 75K forged alloy steel
- Connection: API 6A Standard flange or according to customer's requirement.



WELLHEAD PARTS - CASING HEAD, CASING SPOOL, TUBING SPOOL

- Working Pressure: 2000Psi~20000Psi
- Nominal Size: 7-1/16" ~30"
- Working Temperature: -46°C ~ 121°C (LU)
- Material Class: AA, BB, CC, DD, EE, FF, HH
- Product Specification Level: PSL1-PSL4
- Performance Requirement: PR1-PR2
- Material: 60K, 75K forged alloy steel



WELLHEAD PARTS - CASING HANGER, TUBING HANGER

- Working Pressure: 2000Psi~20000Psi
- Size of casing: 4-1/2" ~30"
- Size of tubing: 2-3/8" ~ 4-1/2"
- Working Temperature: -46°C ~ 121°C (LU)
- Material Class: AA, BB, CC, DD, EE, FF, HH
- Product Specification Level: PSL1-PSL4
- Performance Requirement: PR1-PR2
- Material: 75K forged alloy steel



API 6D PRODUCTS

We offer 6D products in all sizes, pressure classes and materials in accordance with client specifications including NORSOK from our stock or from new production. This enables us to serve the market with competitive delivery times and pricing.

Ball Valves

- Side Entry, Top Entry, DIB

TC Gate Valves

- Double Expanding and Slab

Butterfly Valves

- High Performance / Lined

Check Valves

- Wafer and Nozzle

Gate, Globe and Check Valves

- API 600 & 602

Modular Double Block and Bleed

- Trunnion and Floating

Sizes:

- 1/2" to 60"

Pressure Classes:

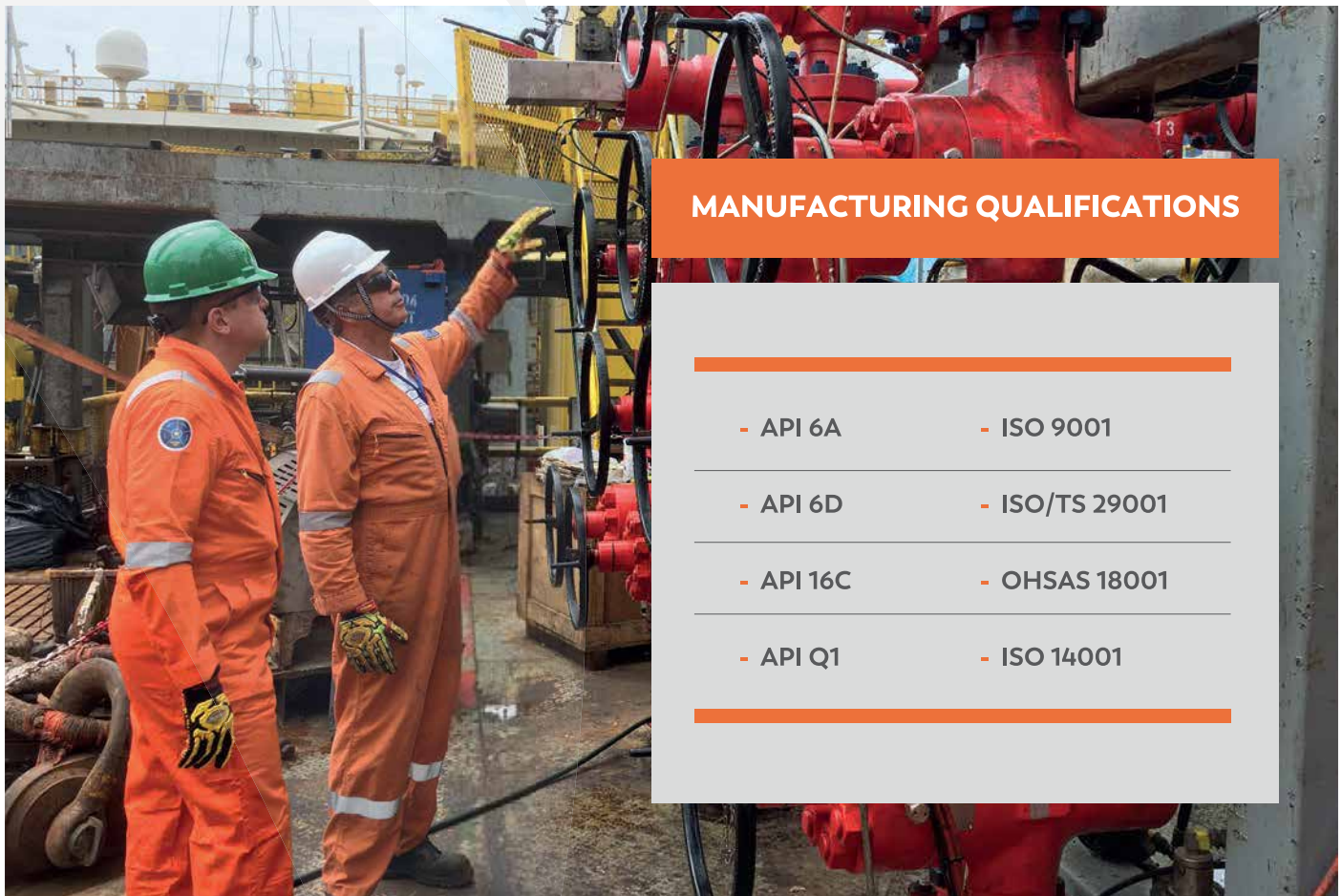
- ANSI 150 - ANSI 4.500, API Classes

Materials:

- CS, LTCS, SS, Duplex, Super Duplex, Titanium & 6Mo



PRODUCT PRESENTATION



MANUFACTURING QUALIFICATIONS

- | | |
|-----------|----------------|
| - API 6A | - ISO 9001 |
| - API 6D | - ISO/TS 29001 |
| - API 16C | - OHSAS 18001 |
| - API Q1 | - ISO 14001 |



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OUR MISSION

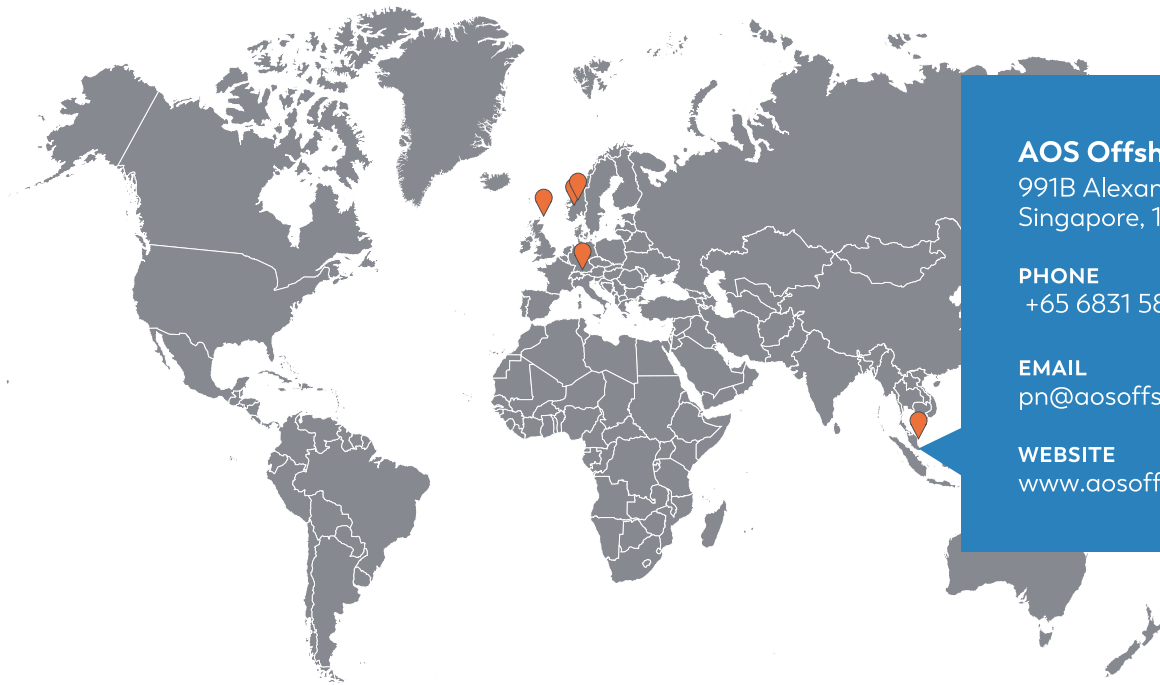
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OUR VALUES

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