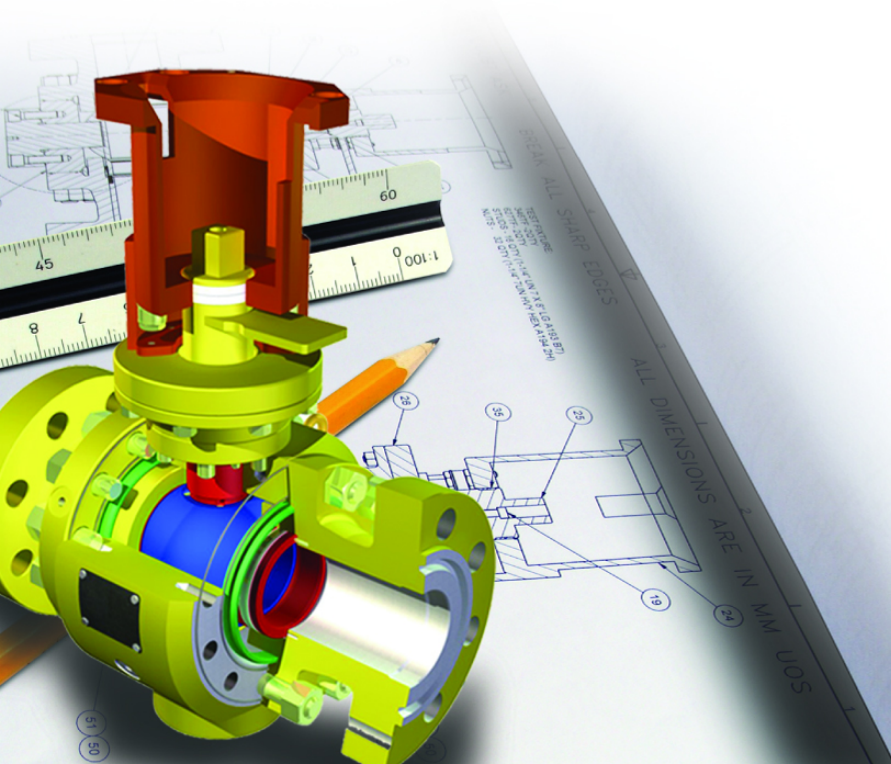




PACSON valves

Setting the Standard



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Pacson Valves

A key supplier of high integrity valves to the world Oil & Gas market, the company is a leading developer for severe service and highly critical applications.

A privately owned Scottish company, with its 50,000ft² headquarters in a modern manufacturing facility based in Dundee, Scotland, The company has a global presence with sales offices in every major oil and gas producing country in the world.

Pacson Valves pride themselves on the quality of products and services with a total in-house capability for the design and manufacture of surface valves, sub-sea valves and pressure control products up to 16 inch / 400 mm bore, or up to 25,000 psi working pressure.

Pacson Valves are perfectly placed to meet the needs of the Oil, Gas, Petrochemical and Process Industries worldwide.



Products

Whether you require an isolation valve from 1/4" - 16", Pacson Valves have a total solution from design, manufacture through to testing.

Ball Valves: *single isolation valves, double block and bleed valves*

Gate Valves: *hydraulically actuated valves, manual valve products*

Needle Valves: *ROV operated 3/4 turn & manual multi-turn valves*

Check Valves: *swing valves, inline piston valves*



“It is our mission to add value to your business by providing high quality, reliable products, and delivering the support and innovation you need to ensure every project is a success. Our success is built on your satisfaction”

01

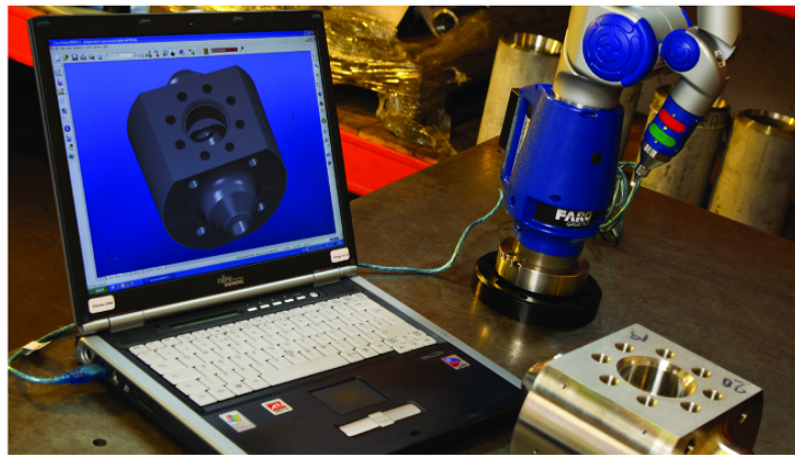


Quality Assurance

Pacson recognises the importance of quality to their customers and to the companies continued success. Product and process compliance is monitored by the independent Quality Assurance and Quality Control departments.

Expectations of quality are set to meet and exceed all specified requirements and relevant standards. These include, as a minimum, the requirements of EN ISO9001:2000 and the European Council Directive 97/23/EC Module H of the Pressure Equipment Directive, as per the Pressure Equipment Regulations S1 1999. No 2001.

“We are committed to a programme of continual improvement as the key to our quality performance”



02



BALL VALVES: Single Isolation

Product Features:

Onshore & Offshore (Subsea) options available
Top entry & side entry options
Bolted bonnet
Body cavity self relieving seats (Double piston effect seats optional)
Double barrier PTFE stem seals
Spring energized seats
Soft & metal seated options
Metal to metal static body seals
Floating & trunnion

BALL VALVES: Single Isolation

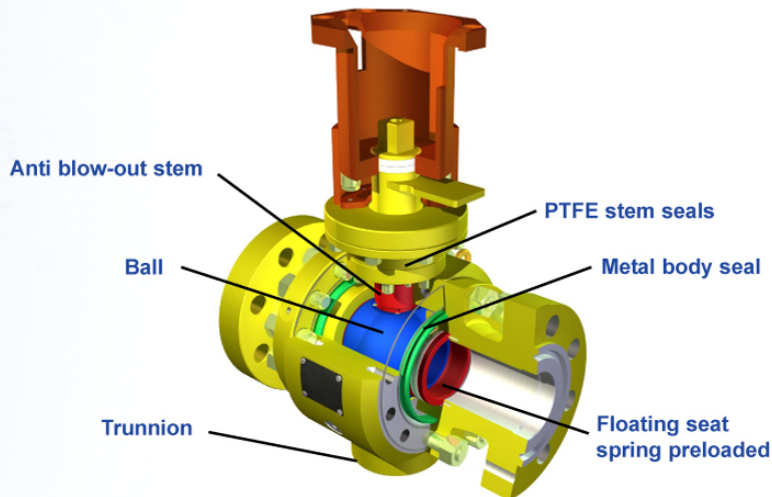
Design Benefits:

Full bore
Fail safe design
Anti blow out stem
Bi directional sealing
Compact design
Low operating torque
Double block & bleed (Single ball)
No lubrication & no maintenance required
High strength robust design
All end connection options available

BALL VALVES: Double Block & Bleed

Design Benefits:

3 independent valves in one body
Compact design
Lightweight
Improved pipeline security
Reduced costs
All end connection options available



NEEDLE VALVES: Single Isolation

Product Features:

Onshore & offshore (subsea) options available
Non rotating stem
Bolted bonnet
Multi turn & 3/4 turn options
Double barrier PTFE stem seals & metal to metal
Clear position indication

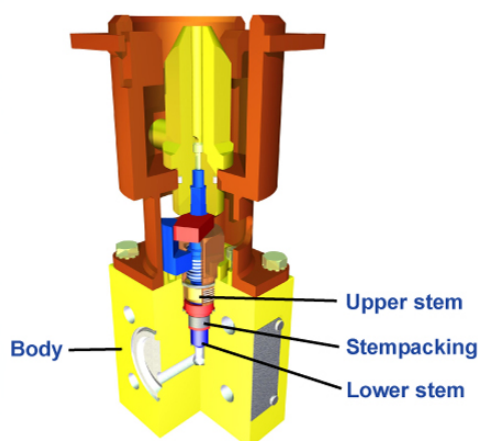
Design Benefits

Full bore flow path
Fail safe design
Patented design
Compact design
Low operating torque
No lubrication & no maintenance required
High strength robust design
All end connection options available

NEEDLE VALVES: Double Block & Bleed

Product Features:

3 independent valves in one body
Compact design
Lightweight
Improved pipeline security
Reduced costs
All end connection options available



Pacson Unique Patented Design No - 2,304,175

SLAB GATE: Manual actuated

Product Features:

- Onshore & offshore (subsea) options available
- Top entry & side entry options
- Bolted bonnet
- Through conduit
- Double barrier PTFE stem seals
- Spring energised seats
- Metal to metal static body seals

SLAB GATE: Hydraulic actuated

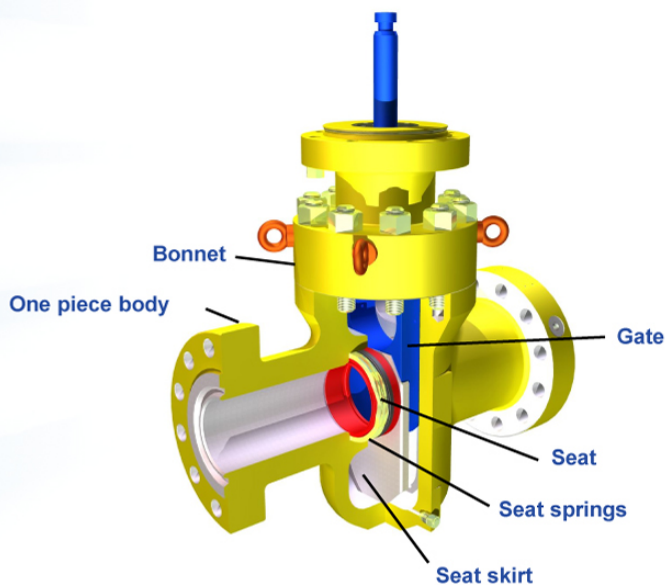
Product Features:

- Onshore & offshore (subsea) options available
- Top entry & side entry options
- Bolted bonnet
- Solid Slab
- Double barrier PTFE stem seals
- Spring energised seats
- FSC/FSO/FAI Linear actuators
- Metal to metal static body seals
- Fully compensated
- Direct mechanical position indication

SLAB GATE: Manual actuated

Design Benefits:

- Full bore
- Fail safe design
- Bi directional sealing
- Compact design
- Low operating torque
- No lubrication & no maintenance required
- High strength robust design
- All end connection options available
- Double block & bleed (Single gate)



CHECK VALVES: Swing

Product Features:

- Onshore & offshore (subsea) options available
- Bolted bonnet
- Soft & metal seated options
- Metal to metal static body seals
- Non slam
- Lockable open

Design Benefits:

- Full bore
- Compact design
- No lubrication & no maintenance required
- High strength robust design
- All end connection options available
- Piggable

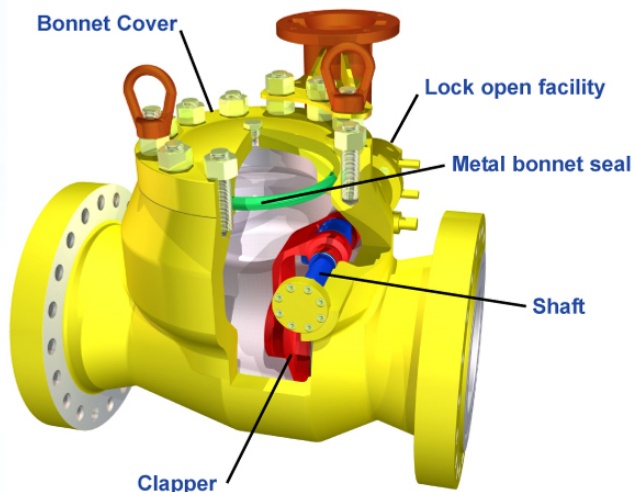
CHECK VALVES: Inline piston

Product Features:

- Onshore & offshore (subsea) options available
- Soft & metal seated options
- Metal to metal static body seals
- Non slam
- Lockable open

Design Benefits:

- Full bore flow path
- Compact design
- No lubrication & no maintenance required
- High strength robust design
- All end connection options available
- Piggable

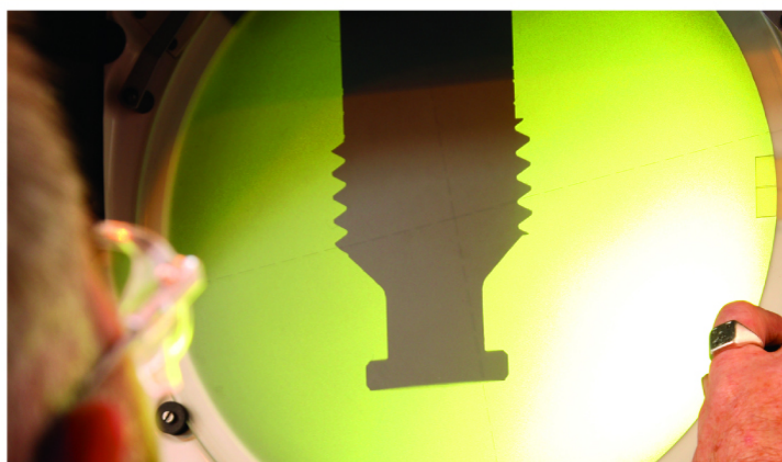


Engineering & Design

The engineering and design capability has been developed through significant investment in manpower, training, hardware and software.

Pacson Valves can provide extensive technical support to customers, whilst ensuring that products and systems are at the cutting edge of product design.

All designs are validated by extensive performance testing programmes, covering extremes of temperature, pressure, endurance and process fluids, giving total confidence in Pacson Valves products.



- 3D solid modelling
- Finite element software
- CAD 2D drafting
- Unique parametric design methods
- Fluid Dynamics

Pacson Valves test facilities also have the capability to operate multiple pressure-channel recording, including temperature, for total valve signature mapping.

Performance & Qualification testing, API 6A PR2, Environmental and Hyperbaric testing can all be carried out on site with specialised testing equipment.

Testing can be carried out up to pressures of 50,000psi and temperature ranges from -70 deg C to +180 deg C.

Valves Designed to Comply with:

API 6A, API 6D, API 17D, ASME B16.34, ASME B16.5, B16.10 and B16.25, ASME II, V, VIII, X, NACE MR0175



Manufacture & Finishing

The in-house machining facility has the capability to process a wide range of valve and equipment components in standard or exotic materials.

Pacson's expertise in machining has been built up over many years within the oil & gas industries.

The CNC machines operate with the latest tooling technology, this allows Pacson Valves to stay at the forefront of machining techniques, resulting

in the highest quality components and the most cost effective machining techniques.

Materials of Construction:

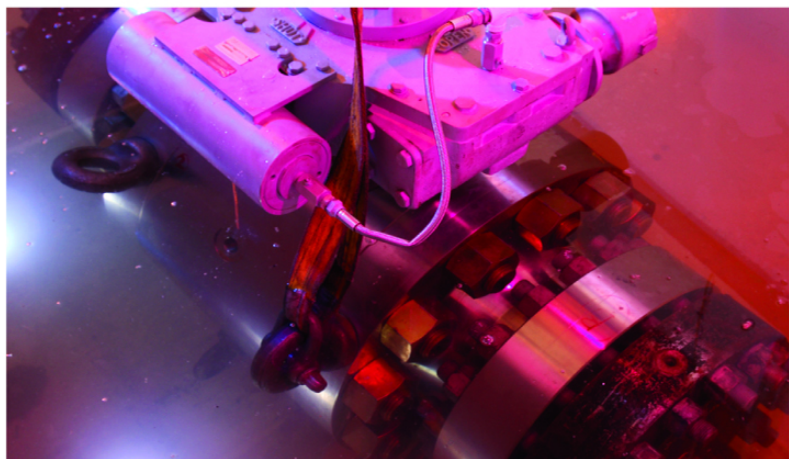
Carbon Steel, Stainless Steel, Duplex & Super Duplex Stainless Steels, Inconel, Hasteloy and Titanium.

Testing Facilities

Pacson Valves has dedicated assembly and testing facilities, covering a wide range of products.

Safety is always the first concern, and all pressure testing is carried out in safety cells. These are compliant with all current safety legislation and with the latest recommendations set out in the H.S.E. guidance note GS4, Safety in Pressure Testing.

Each test cell is equipped with computerised data logging equipment for the continuous monitoring and performance analysis of the product being tested.



ISO Standards

ISO 5208 Industrial Valves Pressure testing
ISO 10497 Fire Testing
ISO 10423 Wellhead & Christmas Tree Equipment
ISO 10433 Underwater Safety Valves

ISO 13628-8 Remotely Operated vehicle (ROV) Interfaces
ISO 14723 Subsea Pipeline Transportation Systems
ISO 9001:2000 Quality Systems
ISO 4406 Hydraulic Fluid Cleanliness



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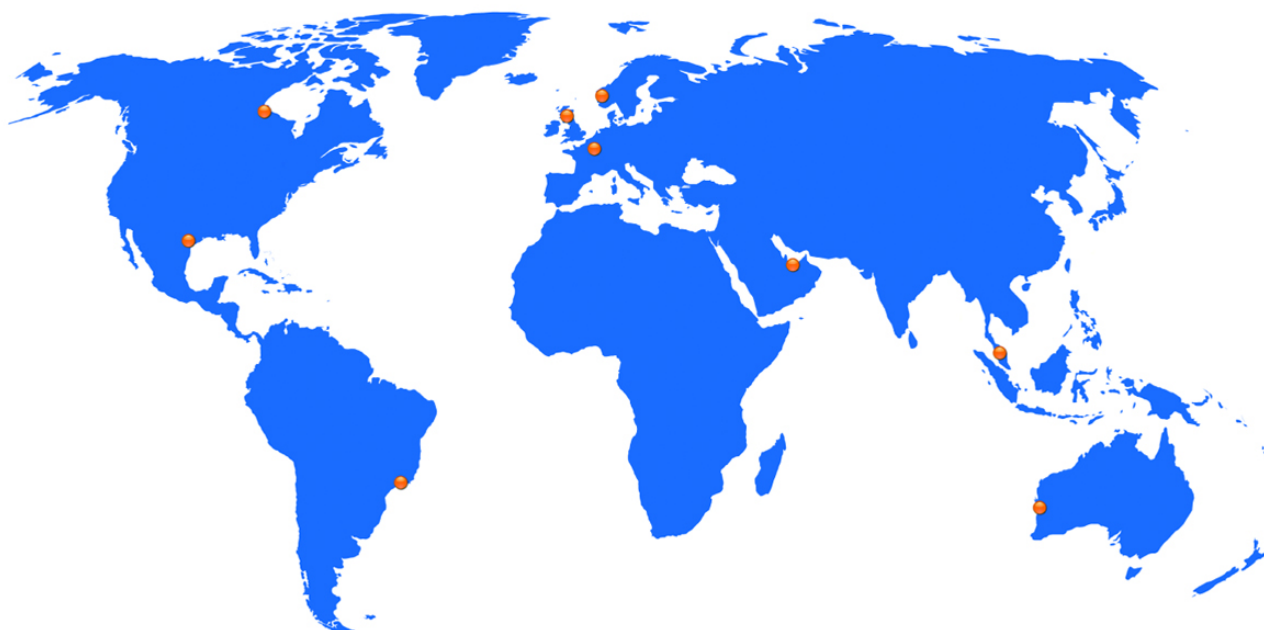
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Q05452



Sales Offices: Abu Dhabi, Australia, Benelux, Brazil, Canada, France, Norway, UK, USA, Singapore



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