Choke Valves
Gate Valves
WellHead Control Panels
Control Systems
Oil & Gas Upstream Equipment

CELEBRATING
15 years
2001-2016
Quam is a CUSTOMER-ORIENTED company specialized in design and manufacturing of Special Valves & Control Systems for the Oil & Gas industry that builds its business with manufacture of SPECIAL VALVES and front-line CONTROL SYSTEMS for Oil and Gas Industry.

Quam consists on hard working staff guided by passion, high sense of responsibilities and high attitude. Our experience in this sector makes us efficient, precise and allows us to find custom made solutions easily, especially for most demanding clients.

QUAM guarantees high quality products for the entire range of products, thanks to meticulous selection of suppliers and to raw materials, 100% made in Italy.
Key points

**MANAGEMENT**
Our Management is composed by skilled project design engineers, specialized in production, sales and quality solutions.

**SALES**
Our skilled sales team is able to suggest the best combination of product design, material options and pricing with timely and accurate quotations.

**ENGINEERING**
All our products are 100% internally engineered. Our Engineers can work with the most advanced software applications, designing very functional and innovative products.

**MANUFACTURING**
Our production department finds the best raw materials from Italian market. The complete manufacturing process Machining, Welding and Special processes are outsourced to reliable selected partners.

**TESTING**
Our R&D group performs intense test activities to verify the design before the product is commercialized. Every product is 100% Hydrostatically and Functionally tested according to EN 10204 3.1 and certified to PED, API-6D & API-6A Standards.

**SERVICE**
After Sales Service supports our Customers for their Commissioning & Start Up, Maintenance, Testing and Upgrading needs. We work close to our Clients and we are glad to discuss any improvement.

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01 High Quality Products
02 Heavy Duty Design
03 100% Made in Italy
04 Quick Deliveries
05 Reliable Service
06 Competitive Price
07 Effective Customer Support
08 Customized Design
Quam technological instruments are constantly updated.

CAD and SolidWorks-based create high quality products, designed to meet the most specific needs of our customers.

We dedicate particular attention to our products through intense research and development in order to study, design and test prototypes of new series.

We are determined to success in the heavy-design and in easy maintenance, we are certain to achieve reliability and long-life service requested by Oil & Gas Applications.

Our R&D technicians and engineering department utilizes software as Conval® 9.0 for valve sizing based on ISA S75.01 formulae and SolidWorks simulation for the verification of the valve components and its functioning.
Choke Valves

Applications
Wellheads, Production, Drilling, Heater bypass, Water injection, Gas lift, Blowdown
Can be installed on Christmas trees, choke and kill manifolds, heaters for oil & gas production
Can be used for gas pressure and flow rate control, for injection rates and for separators liquid discharge

Features
API-6A design
Available styles: positive, needle, disk & cage
Wear resistant trim
Extensive range of body/trim materials and options
Customizable end to end dimension

Benefits
Safe and reliable
Short delivery times
Easy maintenance

Pressure ratings
From ANSI 150 through API 15000 PSI

End connection sizes
Flanged from 1” through 10” ANSI/API
Other ends connections available on request

Actuation options
Manual override
Pneumatic / Hydraulic - single acting
Pneumatic / Hydraulic - double acting
Pneumatic / Hydraulic - stepping
Electro-hydraulic
Electric

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EXTERNAL SLEEVE
Flow directed to deviate at the center of flow cage away from the body, protecting valve from erosion
Sealing surface is located on the outside on the cage, lowering the erosion potential

NEEDLE AND SEAT
Tapered movable plug control orifice size precisely and adjusts to the required bean size. Considered most suitable when gradual halt in flow is required, and at other points where a small flow rate is desired
Control over a range of production requirements and keeps the well flowing safety and economically

POSITIVE CHOKE VALVE
Dissipation of well energy in the hardened replaceable beans to meet downstream pressure limitation
Various sizes and materials are available

PLUG AND CAGE
Guided plug inside the solid cage for high capacity and erosion control
Noise and vibrations are under control and effects of flashing and high speed are reduced
Trim is enclosed in a cartridge that allows maintenance and replacement of worn parts or trim change with maximum ease

ROTATING DISKS
Two disks with multiple ported holes, top plate rotating to vary the size of the orifice and controlling the well fluid, resistant to sand and well debris
Rotating disk produce near linear flow characteristics that is ideal for control application
QUAM Choke Valves
Actuated

PNEUMATIC ACTUATED
Choke valve with a single acting spring return or double acting pneumatic actuator directly installed on top of the valve, with fail safe power bank
Tailor made control system with positioners are required for a better and safe control

ELECTRIC MOTOR DRIVEN
Electric motor drives choke valve with manual override handwheel and allows well flowing to adjusts the orifice size

STEPPING ACTUATED
Stepping actuator is driven pneumatically or hydraulically by two separate cylinders and two dedicated solenoids (one for open and one for close)

HYDRAULIC ACTUATED
Hydraulic power linear actuators (single or double acting) are driven by hydraulic powered control system for precise control and fast action

DRILLING CHOKE
Large orifice bore to avoid plugging during operations
Double acting hydraulic actuator with position feedback
Quam choke manifolds are used on wells drilling or testing. These manifolds can control the well kick, adjust balance pressure, avoid pollution of oil layer, improve the speed of drilling and control blowout effectively. A customized production consisting in Choke Valves, Slab or Expanding Gate Valves, piping and fittings ideal for flow control and precise pressure. 

**KEY Features**

- All components are designed and manufactured according to API-6A specification
- Special design, ideal to control and contain wellhead pressures
- Valve sizes range from 2 1/16” to 5 1/8”
- Pressure Ratings range from 2000 PSI to 15000 PSI
- Available an extensive range of materials, connections and accessories
Gate Valves

Applications

Wellheads, Production, Drilling, Water injection, Gas lift, Blowdown
Can be installed on Christmas trees, choke and kill manifolds

Features

API-6A and API-6D design
Slab or double expanding gate through conduit style
Wear resistant trim
Extensive range of body/trim materials and options

Benefits

Short delivery times
Long life service
Easy maintenance
Fully customizable in actuation & controls

Pressure ratings

From ANSI 150 through API 15000 PSI

End connection sizes

Flanged from 1 13/16” through 20”
Other ends connections available on request

Actuation options

Manual override
Pneumatic / Hydraulic - single acting
Pneumatic / Hydraulic - double acting
Electro-hydraulic
Electric
SSV Surface Safety Valve

Applications

Wellheads, Production, Drilling, Water injection, Gas lift, Blowdown
Can be installed on Christmas trees, choke and kill manifolds

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Slab or double expanding gate through conduit style
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Other ends connections available on request

Actuation options

Manual override
Pneumatic / Hydraulic - single acting
Pneumatic / Hydraulic - double acting
Electro-hydraulic
Electric
SSV Surface Safety Valve
SLAB RISING
API-6A or API-6D through conduit slab gate valve rising stem with a positive metal to metal sealing (gate-to-seat and seat-to-body)
Bidirectional design provides flow direction versatility
Manually operated or actuated (pneumatic, hydraulic or electric)
Available a complete range of materials and connections for all customers’ requests

SLAB NO RISING
API-6A through conduit slab gate valve no rising stem with a metal-to-metal seal ideal for both low and high pressures sealing situations
Bidirectional flow & full bore for versatility
Compact dimensions suitable for wellhead applications

EXPANDING RISING
API-6A or API-6D through conduit expanding gate valve rising stem with a metal-to-metal seal covering an extensive range of pressures
Bidirectional sealing & full bore for versatility
Manually operated or actuated operated (pneumatic, hydraulic, electric)

EXPANDING NO RISING
API-6A through conduit double expanding non rising stem with a positive metal-to-metal sealing (gate-to-seat and seat-to-body)
Bidirectional flow & full bore for versatility
Compact dimension suitable for wellhead applications

CUSTOMIZED GATE VALVES
The best design flexibility to support customers’ projects and to solve specific field problems
QUAM Gate Valves
Actuated

SELF-CONTAINED SURFACE SAFETY VALVE
API-6A surface safety gate valve made of a top quality reverse acting gate valve with hydraulic actuator
The operating media is hydraulic fluid supplied by a self-contained control system with manual pump for SSV valve opening and PSHL pressure pilots for emergency safety closing

HYDRAULIC ACTUATED
API-6A and API-6D through conduit slab gate valve with fail safe hydraulic actuator
A wide range of actuator’s sizes and materials are available with a complete range of accessories and control systems

LINE PRESSURE OPERATED SURFACE SAFETY VALVE
API-6A line pressure operated surface safety gate valve made of a top quality reverse acting gate valve with hydraulic actuator
The operating media is flow-line fluid supplied through a velocity check valve for SSV valve opening and PSHL pressure pilots for emergency safety closing

PNEUMATIC ACTUATED
API-6A and API-6D through conduit slab gate valve with fail safe pneumatic actuator
A wide range of actuators’ sizes and materials
Available a complete range of accessories and control systems
Wellhead Control Panels

The WHCP is a Hydraulic Control System that provides control of the topside Christmas Trees.

Wellhead control panel automatically closes the well safety valves in response to alarm conditions requiring the shut-off. Valves can be closed either manually or automatically, at the panel or remotely.

The WHCP is available with a wide selection of options for single or multi-well configuration.

Quam WHCP are specifically designed using the very latest design technologies and components.
It is designed to operate one subsurface safety valve and up to two hydraulic or pneumatic actuated surface safety valves for any type of well.

MULTI-WELL CONTROL PANEL

It is designed with the same features as per single-well but with the possibility to control the safety valves of a number of wells. Quam multi-well control panels can incorporate removable and interchangeable well control modules, each controlling a single well that can be easily isolated and removed.
LIQUID DISCHARGE
Valves

Applications
Gas separators: installed as on/off valve for liquid blow-down

Features
ANSI design
Available needle, gate & needle, gate & gate types
Wear resistant trim
Extensive range of body/trim materials and options

End connection sizes
Flanged from 1” through 2” ANSI

Pressure ratings
From ANSI 150 through ANSI 2500

Benefits
Safe and reliable
Short delivery times
Easy maintenance

Actuation options
Pneumatic / Hydraulic - single acting
HPU
Hydraulic Power Units

The HPU is an hydraulic power system that provides supply of hydraulic fluid to the valve actuator. Quam power units can be used to supply a single valve or a multi valve system or project.

Hydraulic Power Units are taylor made and can be supplied strictly according Customer specification and can be supplied as a simple Power Supply Unit or complete with a Control System for an integrated Valve Control. The HPU is available with a wide selection of options to ensure Single or Multi-Valve configuration.

QUAM manufactures various type of HPU, Manual, Pneumo/Hydraulic and Electro/Hydraulic, for On/Off Valves or Control Valves service.

Construction style could be skid mounted, free-standing or directly installed on Actuator.

Local
Control Panels

The Local Panels are Pneumatic or Hydraulic types for the complete control of Valve System.

QUAM Local Panels can be used to supply a Single Valve or a Multi-Valve system.

Local Control Panel automatically stroke the Valves in response to alarm conditions requiring shut-off or Blow-Down. Valves can be close either manually or automatically, from panel or remotely.

The Local Panels are available with a wide selection of options.

Single-Valve Control Panel is designed to operate one Valve.

Multi-Valve Control Panel is designed with the same features as per Single-Valve but with the possibility to control simultaneously a certain number of Valves.
Every piece of equipment produced undergoes final inspection and certification according to standard or customized procedure.

Our standards and design codes are:

- **API** – American Petroleum Institute
- **ASME** – American Society of Mechanical Engineers
- **ISO** – International Organization for Standardization
- **DIN** – Deutsches Institute vor Normung
- **ANSI** – American National Standard Institute
- **ASTM** – American Society of Testing and Material
- **NACE** – National Association of Corrosion Engineers
- **BS** – British Standard Institution

THE BEST CHOICE FOR OIL & GAS UPSTREAM EQUIPMENT

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