

BOLTED BONNET GATE VALVES



三千控制阀网 www.cv3000.com

valves and actuators

PETROLVALVES

introduction

PETROLVALVES is a leading manufacturer of valves for the oil and gas industry. Formed in 1956, **PETROLVALVES** has grown to a company with sales, services and manufacturing facilities throughout the world with direct presence in the United States, Norway, United Kingdom, Italy, Singapore and Australia. The continuous investment in development of new technology has resulted in the growth and

gate valves

ongoing success of our company. **PETROLVALVES** line of production includes some of the most sophisticated valve products in the world with a strong focus on the development of custom or niche products designed according to customer's specific requirements.

PETROLVALVES has been manufacturing Gate valves since the early 1960s, and has been involved in some of the largest oil & gas projects in the industry.



| BOLTED BONNET GATE VALVES | · · · · · · · · · · | | | G | ATE |
|--|---|--|--|--|---------------------------------------|
| | | • • • • • | · · · · · · · | valve | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | • • • • • | | | • • • • • • |
| | · · · · · · · · · · | | · · · · · · · | | · · · · · · |
| gate valves BASIC INFORMATION | · · · · · · · · · · | | | | |
| BASIC INFORMATION | | | | | |
| | | | | | |
| STANDARD SERVICE: use in refined products transmission li | | | | | |
| other general industrial and oil | | | ••••• | • • • • • | |
| example: | | | · · · · · · · | | • • • • • • |
| ► transmission pipelines, | · · · · · · · · · · | | · · · · · · · | | · · · · · · |
| | | | | | |
| pumping, compression and re | einjection units | | | UB-PROD | UCT TYPE |
| ► offshore platforms | | DESIGN | | мс | DDEL |
| ► onshore terminals | | Wedge Gate |) | - | 110 |
| Noia trans | · · · · · · · ·]] | Parallel Slide Gate | | 101SP | |
| ► pig traps | | Parallel Slide | Gate | 10 | DISP |
| | ATE VA | Double Disc S | | | DISP 250 |
| ► measuring stations | GATE VALVES | | | | |
| measuring stationssurge-relief skids | GATEVA | Double Disc S | | | |
| ► measuring stations | GATEVA | Double Disc S | | | |
| measuring stationssurge-relief skids | GATE VA | Double Disc S | | | |
| measuring stations surge-relief skids blowdown | GATE VA | Double Disc S | | | |
| measuring stationssurge-relief skids | | Double Disc Expanding | Single | S | 250 |
| measuring stations surge-relief skids blowdown | API 6D/ANSI class | Double Disc S Expanding RANGE OF I | Single PRODUCTIO 900 | 9 N (*) 1500 | 250 |
| measuring stations surge-relief skids blowdown SPECIAL SERVICE | | Double Disc S Expanding | Single | S | 250 |
| measuring stations surge-relief skids blowdown SPECIAL SERVICE HIGH/LOW TEMPERATURE CRYOGENIC | API 6D/ANSI class SIZE | Double Disc S Expanding RANGE OF I 150 to 600 2" to 64" | Single PRODUCTIO 900 2″ to 54″ | 9 N (*) 1500 2" to 48" | 250 2500 2" to 30" |
| measuring stations surge-relief skids blowdown SPECIAL SERVICE HIGH/LOW TEMPERATURE CRYOGENIC DIRTY / ABRASIVE SERVICE | API 6D/ANSI class SIZE API 6A class | Double Disc S Expanding RANGE OF I 150 to 600 2" to 64" API 3000 up to 34" | Single PRODUCTIO 900 2″ to 54″ API 5000** up to 34″ | 9 N (*) 1500 2″ to 48″ API 10000 | 250 2500 2″ to 30″ API 15000 |
| measuring stations surge-relief skids blowdown SPECIAL SERVICE HIGH/LOW TEMPERATURE CRYOGENIC | API 6D/ANSI class SIZE API 6A class SIZE | Double Disc S Expanding RANGE OF I 150 to 600 2" to 64" API 3000 up to 34" | Single PRODUCTIO 900 2″ to 54″ API 5000** up to 34″ | 9 N (*) 1500 2″ to 48″ API 10000 | 250 2500 2″ to 30″ API 15000 |
| measuring stations surge-relief skids blowdown SPECIAL SERVICE HIGH/LOW TEMPERATURE CRYOGENIC DIRTY / ABRASIVE SERVICE | API 6D/ANSI class SIZE API 6A class SIZE | Double Disc S Expanding RANGE OF I 150 to 600 2" to 64" API 3000 up to 34" | Single PRODUCTIO 900 2″ to 54″ API 5000** up to 34″ | 9 N (*) 1500 2″ to 48″ API 10000 | 250 2500 2″ to 30″ API 15000 |
| measuring stations surge-relief skids blowdown SPECIAL SERVICE HIGH/LOW TEMPERATURE CRYOGENIC DIRTY / ABRASIVE SERVICE | API 6D/ANSI class SIZE API 6A class SIZE | Double Disc S Expanding RANGE OF I 150 to 600 2" to 64" API 3000 up to 34" | Single PRODUCTIO 900 2″ to 54″ API 5000** up to 34″ | 9 N (*) 1500 2″ to 48″ API 10000 | 250 2500 2″ to 30″ API 15000 |
| measuring stations surge-relief skids blowdown SPECIAL SERVICE HIGH/LOW TEMPERATURE CRYOGENIC DIRTY / ABRASIVE SERVICE | API 6D/ANSI class SIZE API 6A class SIZE | Double Disc S Expanding RANGE OF I 150 to 600 2" to 64" API 3000 up to 34" | Single PRODUCTIO 900 2″ to 54″ API 5000** up to 34″ | 9 N (*) 1500 2″ to 48″ API 10000 | 250 2500 2″ to 30″ API 15000 |
| measuring stations surge-relief skids blowdown SPECIAL SERVICE HIGH/LOW TEMPERATURE CRYOGENIC DIRTY / ABRASIVE SERVICE | API 6D/ANSI class SIZE API 6A class SIZE | Double Disc S Expanding RANGE OF I 150 to 600 2" to 64" API 3000 up to 34" | Single PRODUCTIO 900 2″ to 54″ API 5000** up to 34″ | 9 N (*) 1500 2″ to 48″ API 10000 | 250 2500 2″ to 30″ API 15000 |
| measuring stations surge-relief skids blowdown SPECIAL SERVICE HIGH/LOW TEMPERATURE CRYOGENIC DIRTY / ABRASIVE SERVICE | API 6D/ANSI class SIZE API 6A class SIZE | Double Disc S Expanding RANGE OF I 150 to 600 2" to 64" API 3000 up to 34" | Single PRODUCTIO 900 2″ to 54″ API 5000** up to 34″ | 9 N (*) 1500 2″ to 48″ API 10000 | 250 2500 2″ to 30″ API 15000 |
| measuring stations surge-relief skids blowdown SPECIAL SERVICE HIGH/LOW TEMPERATURE CRYOGENIC DIRTY / ABRASIVE SERVICE | API 6D/ANSI class SIZE API 6A class SIZE | Double Disc S Expanding RANGE OF I 150 to 600 2" to 64" API 3000 up to 34" | Single PRODUCTIO 900 2″ to 54″ API 5000** up to 34″ | 9 N (*) 1500 2″ to 48″ API 10000 | 250 2500 2″ to 30″ API 15000 |
| measuring stations surge-relief skids blowdown SPECIAL SERVICE HIGH/LOW TEMPERATURE CRYOGENIC DIRTY / ABRASIVE SERVICE | API 6D/ANSI class SIZE API 6A class SIZE | Double Disc S Expanding RANGE OF I 150 to 600 2" to 64" API 3000 up to 34" | Single PRODUCTIO 900 2″ to 54″ API 5000** up to 34″ | 9 N (*) 1500 2″ to 48″ API 10000 | 250 2500 2″ to 30″ API 15000 |
| measuring stations surge-relief skids blowdown SPECIAL SERVICE HIGH/LOW TEMPERATURE CRYOGENIC DIRTY / ABRASIVE SERVICE | API 6D/ANSI class SIZE API 6A class SIZE | Double Disc S Expanding RANGE OF I 150 to 600 2" to 64" API 3000 up to 34" | Single PRODUCTIO 900 2″ to 54″ API 5000** up to 34″ | 9 N (*) 1500 2″ to 48″ API 10000 | 250 2500 2″ to 30″ API 15000 |

| PETROLVALVES | gate valves | · · |
|--|---|---|
| gate valves FEATURE | SPECIAL | |
| API 600 or API 6A • ASME BI6.34 • Metal seated • Fire Safe • Full bore • Bidirectional/Unidirectional • Anti blow out stem | SPECIAL FEATURES NACE Requirement Special bore Full/partial cladding Overpressure relief Extended stem Extended bonnet Custom engineering to suit customer projects requirements Soft seated construction for bubble-tight shutoff Internal coating (FBE, Epoxy lined) | ACCESSORIES Vent & Drain: Plugged Flanged With valve Equalizing pipe: With valve Bypass Live loaded packing |
| PETROLVALVES' engineeri requirements and project spe | ing department is specialized in f ecifications. | ulfilling all customer's |
| | | |
| | | |

| BOLTED BONNE 101/101sp/950 | T GATE VALVES |
|-------------------------------|--|
| | |
| | |
| | |
| | |
| | |
| ga | te valves SEALING |
| | |
| | |
| | Spiral wound type, or ring joint type on higher classes. |
| | |
| | |
| | · · · · · · · · · · · · · · · · · · · |
| | |
| | |
| | STEM SEALING |
| | Graphite packing or thermoplastic multiple V rings seal |
| | type (PTFE chevron pack). |
| | Availability of API 622 qualified packing and API |
| | 624 qualified valves design to fully fulfill API 600 requirements. |
| | |
| | |
| | |
| | SEAT SEALING |
| | API 600 design with integral body seat or seal welded |
| | separate seat rings. |
| | Renewable threaded seat ring is also available upon request. |
| | |
| | |
| | |
| | |
| | |
| | · · · · · · · · · · · · · · · · · · · |
| | · · · · · · · · · · · · · · · · · · · |
| | |
| | |
| · · · · · · · · · · · · | |

| | PetrolValves | gate valves | . . |
|----|--|---|---|
| | Standard tightness thermal e against th | E WEDGE flexible wedge design improves the seat and can recover small elastic deformation and xpansion, assuring always the optimal contact he seats. Ige design or split wedge design is available | |
| 04 | Parallel sli loaded se The two p fluctuatio | EL SLIDE de design has obturator made of 2 spring eparate plates. plates are free to adjust to temperature ns and to recover high thermal expansions always the best contact against the seat. | |
| | Double d separate | DISC SINGLE EXPANDING isc single expanding design is made of two discs with a wedging device that pushes the against the seats achieving excellent sealing es. | |
| | | e types are designed to fully comply with API irements (E.G. wear travel) | |

| BOLTED | BONNET | GATE | VALVES |
|----------|--------|------|--------|
| 101/101s | p/950 | | |

| | | | | | 1.1 | |
|---|----|-----|---|------------|-----|---|
| n | 12 | 11 | e | r 1 | a | S |
| | - | ~ ~ | - | | | |

PETROLVALVES gate valves have been designed for use with various combinations of materials which are selected to better suit service conditions.

GATE

05

| AVAILABLE BODY MATERIAL SELECTION | AVAILABLE OBTURATOR MATERIAL SELECTION | AVAILABLE SEAT MATERIAL SELECTION |
|--|--|---|
| CS, LTCS (*) Low Alloy Steel (*) Stainless Steel Ni Alloy | CS, LTCS Low Alloy Steel Austenitic / Ferritic / Martensitic Stainless Steel Duplex, Superduplex, | CS, LTCS Low Alloy Steel Austenitic / Ferritic / Martensitic Stainless Steel Duplex, Superduplex, Ni Alloy |
| (*) CRA weld overlay option available | Ni Alloy Hardfacing ▶ stellite 6 or 21 | Soft seat insert material (optional) ► PTFE, RPTFE, PCTFE, PEEK, DEVLON, NYLON Hardfacing ► stellite 6 or 21 |

| ~ | C | | SS | 0 | r | 1 | Δ | 6 |
|---|---|----|----|---|---|---|---|---|
| - | C | C. | 22 | U | L | T | U | ç |

| 20 | Cessories |
|----|--|
| • | CAVITY RELIEF Piped tubing with a piston check valve connects the body cavity with the high pressure side in order |
| • | to relieve any overpressure in the cavity. Valves with cavity relief system are unidirectional. |
| • | Upon request, we offer a patented cavity relief device that connects the cavity with both sides of the valve, and releases the pressure to the higher pressure side. Valves are bidirectional. |
| • | BYPASS |
| • | A pipe with an on-off valve connect the two sides of the main valve, in case of need the bypass |

valve can be opened in order to equalize the pressure between upstream and downstream and facilitate the valve opening.

LIVE LOADED PACKING

Packing for low emission service, the packing is loaded by means of belleville washers in order to have a costant load regardless of packing wear.

Rev 01 - April 2017 - Please visit our website www.petrolvalves.com to get the latest revision. ©2017 - PETROLVALVES protects all over the world its industrial and intellectual property rights and pursues their undue use