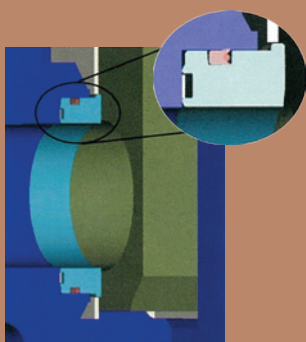
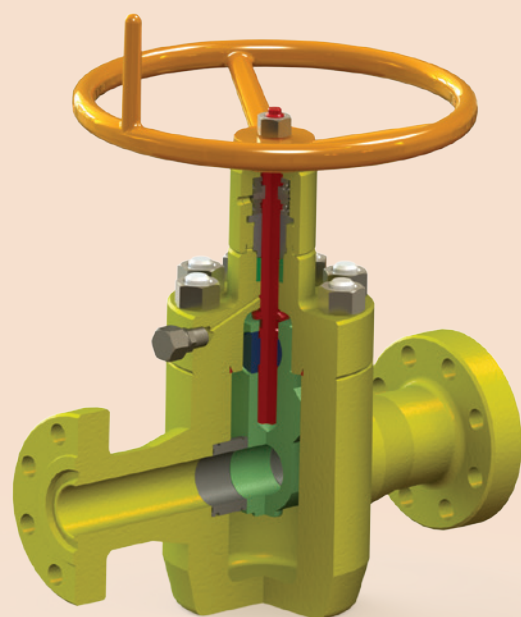


The NuStar NSV Gate Valve offers an economical field proven oilfield valve for the oil & gas industry. The NSV gate valve products are designed and manufactured to the latest requirements of API 6A specifications and API Q1/ISO9001 quality assurance program.



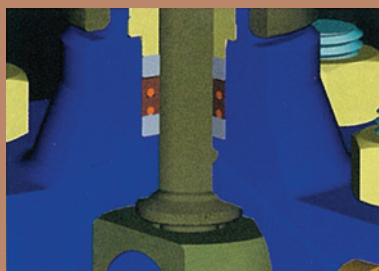
FEATURES

- 2,000 to 15,000 PSI WP
- 1-13/16" to 9"
- Bi-Directional Sealing
- Floating Gate and Seats Design
- Stem Backseat
- Non-Elastomeric Stem Packing
- Low Operating Torque
- Forged and Valve Bodies
- Tested to requirement of API 6A
- Suitable for Wide Range of Actuators



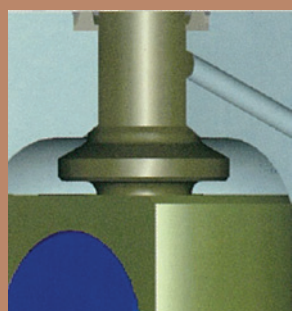
Metal to Metal Seat/Body and Seat/Gate Seals

NSV Gate Valve comes with a solid piece floating gate. Sealing at gate to seat and seat to body for both designs are full metal to metal.



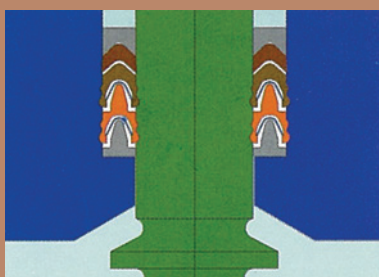
PR 1 Elastomeric Stem Packing

NSV Gate Valve provides several stem packing design to cover different services temperature, pressure and drilling and production fluids. For PR1 services, standard elastomeric seal packing is used.



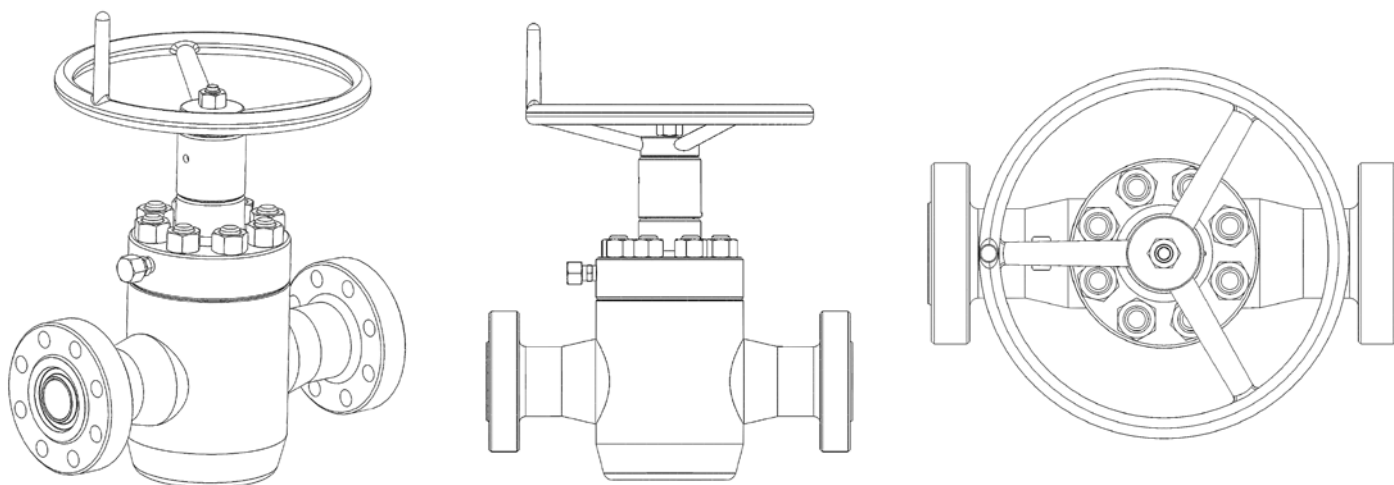
Metal to Metal Stem Backseat Seal

NSV Gate Valve's stem and bonnet design provided a full metal to metal backseating sealing. This will allow the stem packing to be replaced while the valve is under pressure.



PR 2 Non-Elastomeric Stem Packing

For PR 2 services, special design non elastomeric stem packing is used which provides an excellent service for chemicals in oil and gas production fluids.



SPECIFICATION

| Standard Valve Trim Materials | | | | |
|-------------------------------|-------------------------------|-----------------------|-----------------------|--------------------------|
| TRIM | BODY/BONNET | GATE | SEAT | STEM |
| AA | Low Alloy | AISI 4130 Hardfaced | AISI 4130 Hardfaced | AISI 4130 /4140 Nitrided |
| BB | Low Alloy | AISI 410 SS Hardfaced | AISI 410 SS Hardfaced | AISI 410 SS Nitrided |
| CC | AISI 410 SS | AISI 410 SS Hardfaced | AISI 410 SS Hardfaced | AISI 410 SS Nitrided |
| DD-NL | Low Alloy | AISI 4130 Hardfaced | AISI 4130 Hardfaced | AISI 4130 /4140 Nitrided |
| EE-0.5 | Low Alloy | AISI 410 SS Hardfaced | AISI 410 SS Hardfaced | 17-4PH Nitrided |
| EE-NL | Low Alloy | AISI 410 SS Hardfaced | AISI 410 SS Hardfaced | Alloy 718 Nitrided |
| FF-0.5 | AISI 410 SS / F6NM | AISI 410 SS Hardfaced | AISI 410 SS Hardfaced | 17-4PH Nitrided |
| FF-NL | AISI 410 SS / F6NM | AISI 410 SS Hardfaced | AISI 410 SS Hardfaced | Alloy 718 Nitrided |
| HH-NL | Low Alloy with alloy 625 clad | Alloy 718 Hardfaced | Alloy 718 Hardfaced | Alloy 718 Nitrided |

About Us

NuStar Technologies offers innovative solutions to challenging land and offshore engineering projects. Our experienced and highly-trained team possess good track record in delivering effective and practical solution on a timely basis.

Our comprehensive services include design engineering, engineering consultation, project management, installation support services, subsea systems and surface system.

NuStar Technologies Pte Ltd

16D Tuas Avenue 1
#01-62 JTC Space@Tuas
Singapore 639536
Tel : (65) 6684 7250 Fax : (65) 6778 1871
Email : sales@nustar-tech.com

