XTRM™ Gate Valves

For onshore applications

MHWirth's XTRM™ products offer an advanced and robust pressure control solution to the industry. Designed for use in extreme service, our XTRM™ valves meet the most challenging environments in the modern oilfield.

Our XTRM™ Gate Valves are suitable for use in multiple environments including drilling, production, fracking, well testing and subsea applications. The valves have a default operating temperature range of -20° F to 350° F (-29 to 177° C) with the availability of designs for further lower and higher temperature requirements. The valves are certified in accordance with API 6A PR-2.

Depending on your project requirements, we offer various options to operate the valves:

- Manual handwheel operated
- Hydraulic double-acting
- Spring-return fail-safe surface
- Spring-return fail-safe subsea

The XTRM™ valves are suitable for any service with varying H_2S and CO_2 requirements and the material classes DD, EE, FF and HH.

Equipped with non-elastomeric seals in wetted areas, the XTRM™ valves prevent explosive decompression and incompatibility issues associated with elastomers such as O-rings. The seat design allows ease of gate/seat installation especially in vertical bore situations on rigs and platforms.

Benefits

- Commonality of components over different pressure classes reduces spare parts inventory, thus reducing operational costs
- Valve seat is a simple one piece design to minimize leaking issues
- Seat retention mechanism designed for maintenance friendly valve
- Valve internal design reduces solid particulate ingress into body cavity, thus reducing body-lube contamination
- Anti-rotation mechanism for bearing cap prevents galling of operating stem.
- Debris barrier protects hydraulic stem from rigors of oilfield environment, thus preventing leakage issues

XTRM™ Gate Valves | For onshore applications

Tested and Approved

The MHWirth XTRM™ Gate Valves have successsfully proven their operation at the highest level of performance verification testing. Several XTRM™ sizes successfully passed an API 6A Annex F PR-2 test allowing the validation of all valves in the XTRM™ product family.

Additionally, all non-elastomeric materials used in wetted areas of valve sealing successfully passed API 6A Annex F immersion tests at an independent test laboratory. These materials were subjected to test fluids consisting of gas phases of H_2S, CO_2 and CH_4 (methane) as well as liquid phases of water and diesel to meet requirements of material class FF/HH at a temperature of 350° F (177° C).

Technical Specifications

Trim	EE (NACE MR0175 sour service)
Body and bonnet	Low alloy steel complete with overlays as applicable inconel 625 on flange RTJs and seat pockets standard
Stem	Nickel base alloys (based on H_2S & CO_2 content)
Gate	Stainless steel complete with hard-facing
Seats	Stainless steel or nickel base alloy complete with hard-facing
Seals	Immersion tested non-elastomeric materials
Available sizes	From 2 1/16 in to 7 1/16 in (52.3 – 179.3 mm)
Available pressure ranges	5 000 – 20 000 psi (345 – 1 379 bar)
Temperature class	API 6A temperature classes available; P+U (-20 to 250° F/-29 to 121° C) P+X (-20 to 350° F/-29 to 177° C)
Performance requirement	API 6A Annex F PR-2
Compliance and certifications	API 6A, DNV-ISO-E101-2018, NACE MRO175 Optional DNV Type Approval Certificate

Data is subject to confirmation by the manufacturer.

mhwirth

For more information, contact marketing@mhwirth.com | mhwirth.com