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**TRELLEBORG SUPPORTS SUBSEA EXPERT TO LAUNCH PIONEERING ROTARY GATE VALVE**

Trelleborg Sealing Solutions worked in partnership with LB Bentley, specialists in creating small bore subsea valves for subsea applications, to support the company in its development of its Medium Duty Rotary Gate Valve. The new gate valve incorporates a custom seal that demonstrates pioneering stem sealing technology that reduces the “risk of contamination and failure”. The seal was specifically engineered for this compact and robust subsea valve that has already achieved field-proven success.

As subsea oil and gas exploration becomes increasingly challenging, LB Bentley realised a highly specialised gate valve that met a wide range of extreme working pressures and operating temperatures, was needed. To this end, it developed its innovative Medium Duty Rotary Gate Valve, which has minimal moving parts and a time-saving quarter-turn mechanism that can be operated manually or with hydraulics. Even in the event of over-torque the internal parts of the valve cannot be damaged and will continue to rotate and function as normal.

Antoine Charrier, a Key Account Manager at Trelleborg Sealing Solutions, said: ““Throughout the process we constantly had to think about the safety issues and challenges that are frequently faced when working with vital subsea equipment. We pride ourselves on innovation and relished this opportunity to work with LB Bentley, developing this innovative stem sealing technology that reduces the risk of contamination and failure.”

Trelleborg developed a custom version of its Turcon® Variseal® MC with high pressure extrusion resistance and back pressure protection in NORSOK M-710 compliant PTFE and PEEK materials to provide the main stem sealing function. In order to cater for subsea use, Trelleborg’s Turcon® Glyd Ring® T was selected as a contaminant exclusion seal.

The standard subsea rotary gate valve was introduced into the market by LB Bentley in 1998. Since then it has gained universal acceptance throughout the industry. It has become the product of choice globally, with many customers preferring and trusting this design over traditional needle, ball and slab type gate valve designs.

Noelle Sears, R&D Design Engineer at LB Bentley said: “We work hard to meet our customers’ needs and as we strive towards continuous improvement, the qualification status of our products is constantly developing. This enables us to offer an expanding range of fully qualified products and we’re immensely proud of the Medium Duty Rotary Gate Valve that Trelleborg helped us develop.”

With an unparalleled experience in the design and manufacture of the rotary gate valve, the simplicity of its operation has proven it to be hugely reliable in service, enabling LB Bentley to provide a SIL 2 rated product with the widest range of features and accessories available today.

A wide range of sizes, pressures, materials and interfaces are available from 3/8″ through to 1″ nominal bore, up to 15,000psi (1,034 bar) in both FF and HH trims. Designs are qualified to API 6A 20th Edition and API 17D 2nd Edition for the temperature range -29°C to 150°C, to a water depth of 10,000ft.

The simplicity and versatility of the rotary gate valve is immediately apparent when the orientations and variations are considered. Almost any style and combination of inlet / outlet connections can be provided and there is also an extensive range of proven manual interfaces.

Trelleborg Sealing Solutions will be highlighting the Medium Duty Rotary Gate Valve and other sealing innovations at Valve World 2018, which takes place in Düsseldorf, Germany from November 27 to 29, in Hall 3, Stand B71.

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**About Trelleborg Sealing Solutions and Trelleborg Group**

***Trelleborg Sealing Solutions*** *is one of the world’s leading developers, manufacturers and suppliers of precision seals, bearings and custom-molded polymer components. It focuses on meeting the most demanding needs of aerospace, automotive and general industrial customers, with innovative solutions. Its network extends to over 25 production facilities and more than 50 marketing companies globally. The business area accelerates the progress of its customers through outstanding local support, an unrivalled product range including patented products and proprietary materials, a portfolio of established brands, unique process offerings, its Service PLUS value chain solution and ‘Ease of Doing Business’ philosophy.*[*www.tss.trelleborg.com*](http://www.tss.trelleborg.com)

***Trelleborg*** *is a world leader in engineered polymer solutions that seal, damp and protect critical applications in demanding environments. Its innovative solutions accelerate performance for customers in a sustainable way. The Trelleborg Group has annual sales of about SEK 32 billion (EUR 3.28 billion, USD 3.69 billion) and operations in about 50 countries. The Group comprises five business areas: Trelleborg Coated Systems, Trelleborg Industrial Solutions, Trelleborg Offshore & Construction, Trelleborg Sealing Solutions and Trelleborg Wheel Systems. The Trelleborg share has been listed on the Stock Exchange since 1964 and is listed on Nasdaq Stockholm, Large Cap. www.trelleborg.com.*