



March 2018

Fluid Power & Systems 2018

Birmingham, NEC, UK

April 10 to 12, 2018

Stand: AF1350

### **TRELLEBORG TO SHOWCASE FLUID POWER CAPABILITIES AT MAJOR INDUSTRY EVENT**

Trelleborg Sealing Solutions will showcase their complete range of sealing solutions for fluid power applications next month at the Fluid Power & Systems exhibition in Birmingham.

A new “best in class” seal for hydraulic cylinders with the ability to thrive in unforgiving conditions will be highlighted, as well as a design study on ‘Lubrication Management’.

The Zurcon® Glyd Ring® D piston seal has “leapfrogged” competitors thanks to its combination of performance and service life through optimized contact pressure and minimized heat generated from friction.

The innovative design incorporates two special grooves in the D-shaped profile of the seal to sustain an oil film for sufficient lubrication of the seal against its counter surface, ensuring adequate friction.

The compact seal, which has been subjected to extensive laboratory testing and long-term field testing, was developed in response to increasing demands from high-pressure hydraulic applications. Machines, equipment and motors are now being fitted with more powerful hydraulic cylinders, subjecting the hydraulics to higher pressures and temperatures.

The seal is manufactured from Zurcon® Z13 polyurethane (PU) material, specially developed to cope with pressures of up to 500 bar/ 7,250 psi at both sides of the seal and at temperatures up to +120 °C / +248 °F. This lengthens the seal's life, even under demanding conditions, offering superb mechanical and elastic properties.

Andrew Longdon, UK Technical Manager at Trelleborg Sealing Solutions, said: “We have made subtle but significant changes to our previous Glyd Ring® compact double-acting piston seal, leading to a new and improved best-in-class seal for hydraulic cylinders with the ability to thrive in unforgiving conditions.

“In the latest more powerful hydraulic applications, high pressure is combined with elevated temperatures. Our new Zurcon® Z13 PU material used in Zurcon® Glyd Ring® D is specially developed to cope with this combination.

“We can now offer a seal for hydraulic cylinders that has a long life – leapfrogging the competition.”

The pioneering seal was a joint development between Trelleborg's research and development centre in Stuttgart, Germany, and their Polyurethane Centre of Excellence in Livorno, Italy.

Core industrial applications for Zurcon® Z13 Glyd Ring® D include construction machinery, earthmoving equipment, mobile cranes, forklift trucks and any other solutions involving



mobile hydraulics. The seal offers superior resilience and good friction properties. It is compatible with hydraulic, mineral, synthetic and water-based fluids and with a hardness of 60 shore D offers outstanding wear resistance, excellent extrusion properties and hydrolysis resistance.

Meanwhile, Trelleborg Sealing Solutions has developed a whitepaper, film, webinar and brochure to showcase its work in Lubrication Management Technology, which is helping to revolutionize hydraulic sealing.

The technology is transforming hydraulic sealing by adjusting lubrication conditions of all single sealing elements within a sealing system, which in turn, optimizes the performance of the hydraulic system in terms of friction, wear and lifetime.

Trelleborg Sealing Solutions will be exhibiting on stand AF1350 at Fluid Power & System 2018, which takes place at the NEC in Birmingham from April 10 to 12.

**-Ends-**

**For more information or high-resolution images, please contact:**

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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, including those from the fluid power industry, 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](http://www.trelleborg.com)*