

TG100r

SEALS FOR WATER-LUBRICATED PROPELLER SHAFTS



THORDON
THORDON BEARINGS INC.

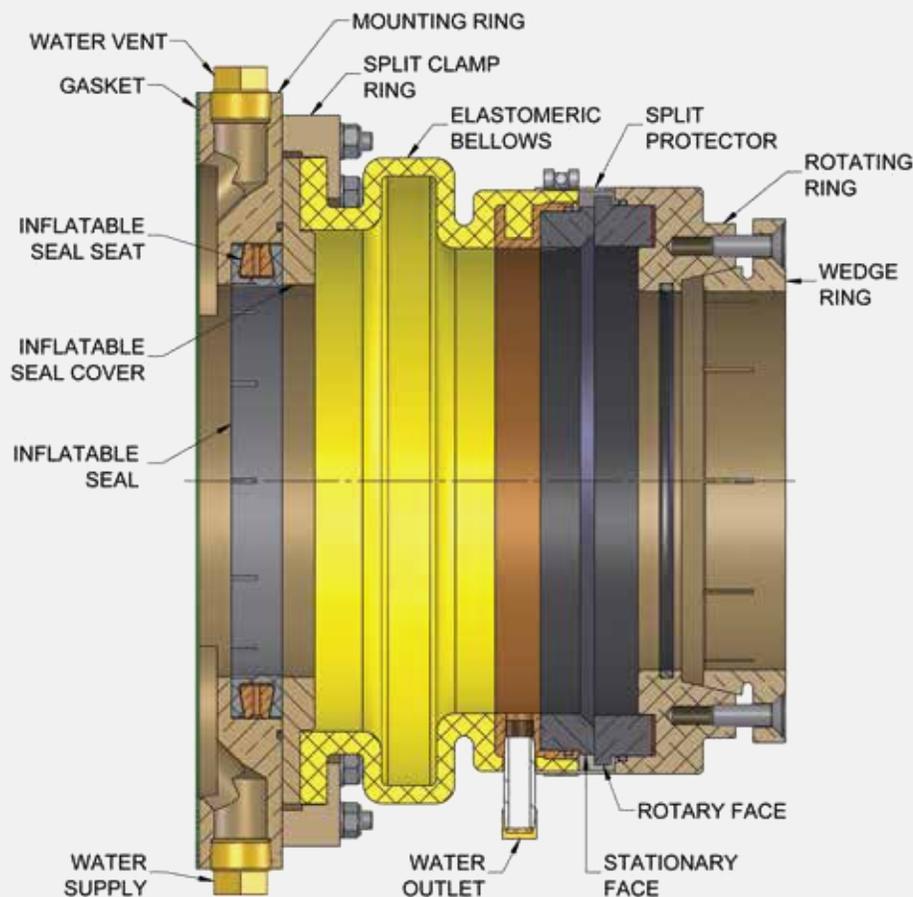
ZERO POLLUTION | HIGH PERFORMANCE | BEARING & SEAL SYSTEMS

SHAFT SEALS FOR ABRASIVE WATER CONDITIONS

The Thordon TG100r is a new mechanical seal for 86 mm (3.375") to 305 mm (12") propeller shafts found in workboats, dredgers, tugs, yachts, patrol craft and other coastal vessels operating in either clean or dirty, abrasive-laden water.

Manufactured to the same exacting standards as our high performing range of Thordon bearings, the TG100r seal uses the highest quality, hard wearing, silicon carbide faces and our proprietary elastomeric polymers to offer the best combination of strength/stiffness and flexibility/elasticity.

- Unlimited shelf life on elastomeric bellows
- Unique emergency seal allows stand-alone operation to get you back to port without damaging the seal
- Elastomeric bellows accept axial/radial shaft movement and compensate for alignment issues
- Manufactured for long wear life providing lowest life cycle costs
- Wedge "lock" design ensures the rotary face is perfectly square to the shaft
- Hydraulically balanced to accommodate various drafts





TG100 Seals Installed on Mississippi Workboat

A New Orleans shipyard installed TG100 seals on the *John 3:16*, a 21 m (69'), 96 tons, 1700 hp towboat with twin screw 152 mm (6") shafts, in 2012.

Vessel Owner: Marquette Transportation Co., KY, USA

Thordon High Performance Solutions

Ship owners and managers know Thordon products are the proven choice for performance and value. TG100r shaft seals are manufactured to last and are designed for use in newbuild construction and retrofits. Our parent company has decades of experience in industrial mechanical seal design and manufacturing, so we are not new to shaft seal technology.

Proprietary Elastomeric Bellows

The exclusive omega "Ω" shape of the elastomeric bellow was FEA computer designed and manufactured by Thordon using a proprietary elastomer. This design minimizes torsional vibration and maintains the required spring force throughout the allowable range of axial shaft movement. Unlike rubber, Thordon elastomer bellows have an unlimited shelf life.

Unique Emergency Seal

A unique feature of the TG100r is the emergency seal that permits stand-alone operation to allow the vessel to safely return to the nearest port and prevent permanent seal damage.

Maintenance-Free Shaft Seals

The TG100r seal can operate without maintenance and should not require spare parts within 5-year drydock intervals. However, dirt and abrasives can accumulate in the bellows depending on the quality of water in which the vessel operates. As a result, periodic cleaning/flushing can be done via a special "water exchange/flush" port located at the bottom of the seal.

Most Effective Combination

Using silicon carbide for both sealing faces provides the most effective solution for vessels operating in dirty water. Elastomeric bellows and the hard silicon carbide surface provide the perfect combination to ensure abrasive particles cannot cause problems.



TG100r seals can be fitted to all vessels operating in abrasive waters including workboats, harbour tugs, offshore supply vessels, yachts, ferries, fishing trawlers, self-propelled dredgers, as well as navy, coast guard and police vessels.

CUSTOMER FOCUSED TO QUICKLY MEET YOUR NEEDS

Quick and Responsive Service

It takes quality products to be globally successful in the bearing and shaft seal industry. It also takes great service to keep customers coming back.

Thordon Bearings Inc. is geared to respond quickly to supply high performance bearing and seal solutions. Our products arrive quickly, fit right and last!

Extensive Distribution Network

Thordon Bearings has an extensive distribution network of more than 75 distributors in 100 countries to supply and service our global customer base. Non-standard requests are met with responsive design, quick machining and speedy delivery.

Application Engineering

Thordon engineers work closely with customers to provide innovative bearing and shaft seal system designs and solutions.

While TG100 seals are designed as a standard product that will virtually bolt into place, global installation technical support is available for those cases where specific application engineering is required..

Manufacturing Quality

Thordon Bearings Inc. is a family-owned company with manufacturing and new product development facilities in Burlington, Ontario, Canada. In addition, we operate a new leading edge manufacturing plant in Slupsk, Poland.

We manufacture to ISO 9001 Quality System requirements. Contact us for our installation references.

High Performance Bearings and Seals; Industry-Leading Service

Thordon Bearings is an industry leader in the design, manufacture, supply and installation of high performance, pollution-free, shaft bearing and seal systems.

Your Authorized Thordon Distributor

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