

Introducing the TenarisHydril Blue[®] Riser connection | 7 5/8" TO 16"

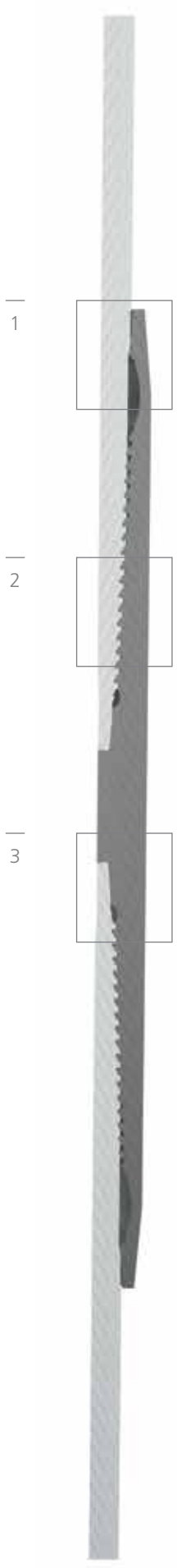


The TenarisHydril Blue[®] Riser connection has been specially designed for use in deepwater top tensioned riser and high pressure drilling riser applications where an exceptional level of fatigue resistance and sealability performance is required.

It has been tested for sealability under the API 5C5 CAL- IV testing protocol, for fatigue performance, sealability after fatigue and in line with API RP96 criteria.

The exceptional performance characteristics of the TenarisHydril Blue[®] Riser connection result from its innovative design features. These include an external seal with the newly developed R-Arch[™] design, a thread design which uses a double elliptical groove and an internal metal-to-metal seal.

This new connection has been developed, qualified and selected to meet the demanding operating and performance requirements of today's deepwater projects in the Gulf of Mexico.



1



External Seal

- Innovative R-Arch™ design minimizes fatigue loading in first engaged thread.
- Metal-to-metal seal provides external sealing efficiency.


2



Thread Design

- Double elliptical groove decreases stress concentration and improves fatigue resistance.

3



Internal Seal

- Metal-to-metal toroidal seal minimizes risk of galling and improves sealing performance stability.

MAIN FEATURES

- High fatigue resistance design: performance comparable to the pipe body (FCF* < 1.1).
- First engaged thread with improved fatigue performance due to the innovative R-Arch™ design.
- Double elliptical groove to improve connection fatigue resistance.
- No fretting fatigue due to external seal design.
- Gas-tight internal seal.

MAIN APPLICATIONS

- **Deepwater.**
- Top Tensioned Risers.
- High Pressure Drilling Risers.

* Fatigue Connection Factor (this factor is a ratio, based on statistical assumptions, between the fatigue performance of the pipe body and the premium connection, evaluated via Full Scale Tests for specific sizes and steel grades. This FCF value shall not be considered as a connection fit-for-purpose evaluation and shall not be used for design purposes)

For further information please contact pipeline@tenaris.com