

TenarisHydril Blue[®] Heavy Wall Connection

Scope

These guidelines apply specifically to the use of TenarisHydril Blue[®] Heavy Wall connections. This document should be used in conjunction with the TenarisHydril Running Manual, which is the main document applicable to the running of all TenarisHydril premium connections.

Tenaris Field Service Representatives can modify these guidelines when circumstances dictate. Implementation will only occur if the representative deems the modification to be non-detrimental to product integrity. All modifications being explained and agreed with the client representative prior to implementation and fully documented in the running report.

References

- TenarisHydril Running Manual.
- Recommended guidelines for the field inspection of TenarisHydril connections, GDL31457.

Equipment, Material & Documents

Latest version of the specific Product Data Sheet can be obtained from Tenaris web site. In case this is unavailable, request the data sheet from the local Technical Sales representative or contact-tenarishydril@tenaris.com.

Pre-Running

1. Never move or handle pipe without the correct thread protectors securely in place.
2. Ensure connections are cleaned and free of all debris and / or contaminants, cleaning methods employed should conform to the recommendations contained within the TenarisHydril Running Manual.
3. Verify all pipe and accessories have genuine TenarisHydril manufactured connections.
4. Visually inspect thread and seal areas prior to running, ensuring no damage is evident.
5. Check condition of both pin and box Dopeless® Technology coating ensuring no peel off or degradation has occurred.
6. Verify the compatibility of the Blue® Heavy Wall connection with any accessories such as cement heads, safety valves, cross overs, etc.
7. Connection weight interchange compatibility is indicated in the TenarisHydril premium connections catalogue.
8. Verify material grade of all accessories ensuring compatibility with main string.

Inspection

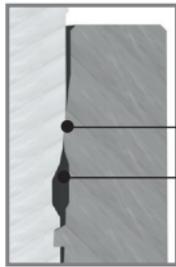
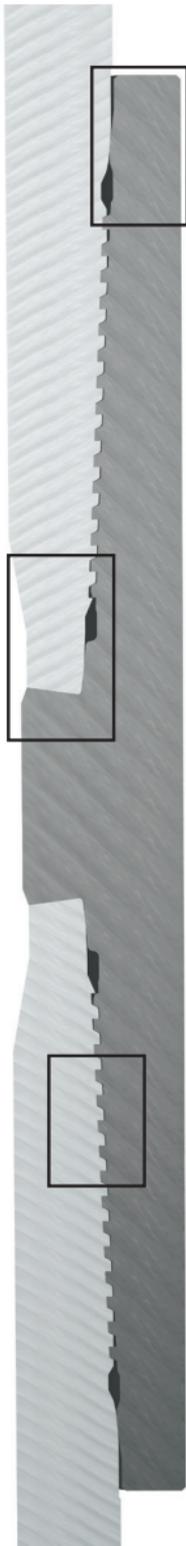
1. Inspection criteria for all TenarisHydril connections is as outlined in the Field Service Operative Guideline GDL31457.
2. Pay particular attention to seal areas.
3. Ensure there is no raised metal on the external seal lead in area directly behind the last pin thread.
4. Ensure the pin and box torque shoulders have no dents, tears or raised material which could interfere with correct assembly.

Blue® Heavy Wall Configuration

Single or twin start threads, dependent on connection weight, are not interchangeable.

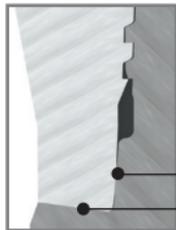
Always check compatibility and visually inspect threads prior to mixing weights.





EXTERNAL SEAL

LEAD IN AREA



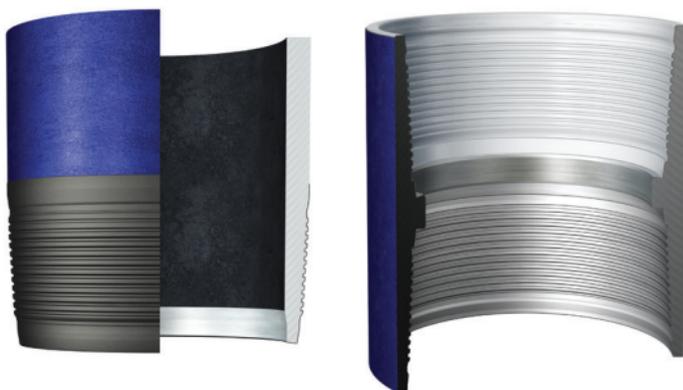
INTERNAL SEAL

TORQUE SHOULDER



3 OR 4 TPI
HOOKED THREAD

Blue® Heavy Wall Dopeless® Technology



1. Minor rust or discolouring of the pin connection can be removed with the use of a clean, dry rag ensuring the Dopeless® Technology coating remains intact.
2. Minor rust or discolouring of the box connection can be removed with the use of a non abrasive plastic scouring pad and a clean, dry rag ensuring the Dopeless® Technology coating remains intact.
3. Dopeless® Technology connections do not require the application of thread compound for make up.

If for whatever reason thread compound has to be applied to Blue® Heavy Wall Dopeless® Technology connections, apply thread compound as indicated below.

DOPELESS® PIN INTO DOPELESS® BOX

- Apply a very thin layer of thread compound on all pin threads only.
- Do not dope pin seals or box connection.

Blue® Heavy Wall Dopeless® Technology Thread Lock

1. When thread locking Dopeless® Technology connections remove the Dopeless® Technology coating from the threads of the pin connection where the thread lock is to be applied.
2. Use a hand or rotary brass wire wheel to remove the Dopeless® Technology coating from the threads, ensuring no contact is made with the seal.
3. Leave the Dopeless® Technology coating on the pin seals, torque shoulder and threads where no thread lock is to be applied.
4. Dopeless® Technology boxes should be washed with hot water then dried prior to thread locking.
5. Thread lock should be applied to 50% of the pin threads immediately behind the pin nose seal area, as per the diagram in page 10.
6. Apply the thread lock manufacturers indicated friction factor.
7. The application of thread dope is not required.
8. Contact Tenaris for further information on the thread locking process.

Thread Lock Application

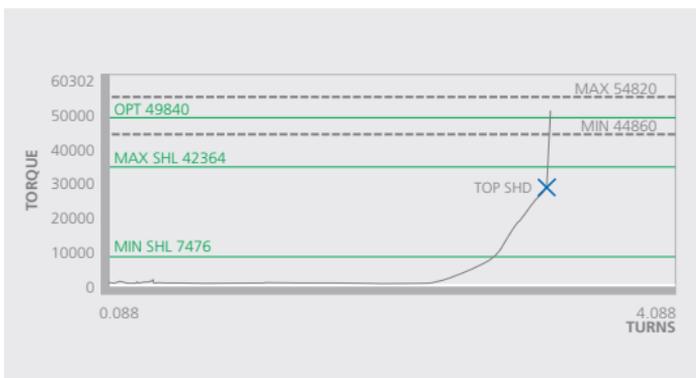
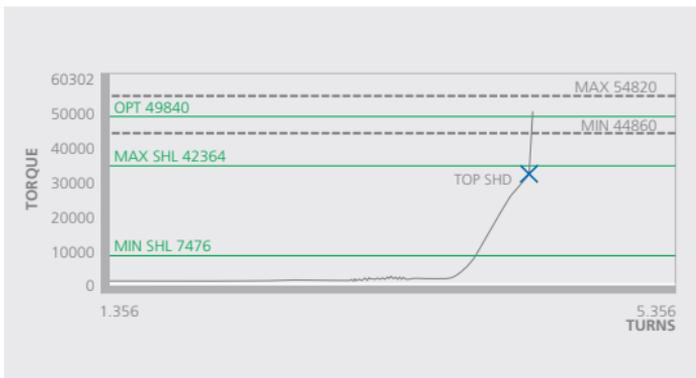
For Dopeless® Technology connections apply thread lock as indicated below.



Torque Application

1. The use of computer make up analysis equipment is strongly recommended when assembling Blue® Heavy Wall connections.
2. Shoulder points for Blue® Heavy Wall can be found in the product data sheet.
3. Reference torque should initially be set at 5% of optimum torque.
4. The dump valve should be set at optimum torque, verify correct operation on the pipe body prior to first make up.
5. Set the computer turns to 2 initially then adjust as necessary to attain good graph depiction.
6. Refer to the TenarisHydril Running Manual, make up acceptance section for further explanation.

7. The computer graph make up profile for Blue® Heavy Wall connections should be similar to the ones below.



8. Blue® Heavy Wall connections have limited same size / weight interchange capability, if mixing weight / grade ensure compatibility of design and apply the lower torque values of the two connections.

9. Blue® Heavy Wall connections of the same size may have one or two thread starts depending on wall thickness; close inspection of dissimilar weight connections is essential, the different thread start types cannot be mixed.

10. If different weight or grade of connections are to be mixed apply the lower weight or grade make up torque.

11. When assembling Dopeless® Technology connections the torques applied must be taken from the Dopeless® Technology variant product data sheet.

Running

1. The use of a stabbing guide is strongly recommended.
2. The use of a weight compensator is strongly recommended for chrome, large OD and heavy pipe.
3. To avoid cross threading stab pipe in a smooth controlled fashion ensuring the pipe is vertical when doing so, continue to support and stabilise the pipe throughout the stabbing and make up operation.
4. Twin thread start connections can have as little as 2 ½ turns from stabbing to make up.
5. **Twin Start Threads:** Rotate at 5 RPM or below to final make up torque.
6. **Single Start Threads:** Commence rotation slowly to ensure no cross threading then spin in at 10 RPM or lower, final make up should be made below 5 RPM.
7. If cross threading is evident, immediately reverse rotate the pipe, completely disassemble, clean and inspect both connections.
8. Walk chrome pipe all the way in to hand tight, then apply tong only for final make up.

Pulling

1. Automatic stabbing system or stabber is highly recommended to maintain the pipe in a vertical position.
2. The use of a stabbing guide is recommended to assist in centralising the pin to prevent hang up.
3. A weight compensator is strongly recommended for chrome, large OD and heavy pipe.
4. Apply the back up tong jaw below the centre of the coupling.
5. Do not grip the coupling over the external seal area.
6. Apply power tong in low RPM (3-5 RPM) to break the connection, ensuring the pipe is stabilized during the break and spin out process.
7. Do not exceed 10 RPM during spin out.
8. As soon as the connection 'drops' during break out stop rotation.
9. Walk Chrome pipe all the way out by hand after initial break.
10. Visual inspection is recommended to classify the thread condition, any rejected connections should be clearly marked and segregated for further investigation.
11. Apply clean, dry thread protectors on clean, dry connections.
12. Do not apply storage compound to Dopeless® Technology connections.
13. For long term storage of Dopeless® Technology connections, refurbishment by qualified personnel is recommended.

14. Ensure clean, dry, Dopeless® Technology protectors with seal rings correctly in place are installed.

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