



Keeping You Connected.

Running Procedures February 2, 2021 Rev 1

INTERLOCK COUPLED SLIM LINE Description:

The **INTERLOCK COUPLED SLIM LINE** is a threaded and coupled connection that relies on dovetail flank locking threads and pin nose to pin nose contact to transmit torque and improve sealing capacity. The **INTERLOCK** uses a wedge thread to effect sealing and high torque capabilities. It is classified as a semi premium coupled connection. The **INTERLOCK** is manufactured in sizes from 4-1/2" to 9-5/8". Torque ratings vary by size, weight and grade because torque is affected by the threaded area and strength of the steel. The primary job of the coupling is to join the pipe and provide sealing. The couplings are **not** interchangeable between the various weights for a specific pipe size.



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Thread Representatives and Torque Turn Monitoring

Precision recommends the use of torque turn monitoring and thread representatives. We believe that it is important to use people who have a considerable expertise in running threads. It is basically cheap insurance since there are so many small details that can derail a good completion. We recommend that if you do not wish to use thread representatives on an ongoing basis that you consider having them out for the first few jobs. They can train and pass on technical and logistical information to your crew. Each rig is different and we have found that thread representatives can help optimize a solution; typically before game day.

Typical service includes the following:

- Assembly Makeup and Testing
- Verify accessories size, weight, grade, and connection type match schematic specifications
- Perform a complete Visual Thread Inspection (VTI) prior to prepping the connections
- Verify load cells are properly calibrated prior to initial make-up
- Verify torque turn graphs meet manufacturers' criteria for the connection
- Drift assemblies prior to and after make-up to verify connection and tube integrity
- Verify all testing equipment is within calibration and test pressures meet specifications
- Confirm test charts are within tolerances
- Install clean thread protectors and tag for shipping

A complete list of qualified thread representatives are listed on our website.

https://precision-llc.com/thread-representatives/

Torque Turn Monitoring

Monitoring make up torques will help identify good and bad connection makeups and ensure maximum seal-ability. Data sheets for the **INTERLOCK COUPLED SLIM LINE** can be found on the web.

- Can identify galling or rough make ups from debris or thread damage.
- Can confirm proper shouldering of the pin occurs at the proper torque range









If a drift check is to be performed, it should be performed prior to cleaning. A clean drift is recommended for drifting the tubular. Any clevises or chains should also be wrapped with duct tape. Drift direction will be box end to pin end, to prevent trash from the tube being dragged into the box connection. Check the inside of the tubes for foreign material. If any is present, remove with compressed air.

Before running, the pipe and coupling connections should be cleaned, dried and inspected. If any debris is present thoroughly clean and dry the connections. Do not use diesel as a cleaning solvent. The use of solvents such as Varsol or soap can leave behind a residual film that impairs thread compound from adhering to the connection. In cold weather environments solvents may be necessary because of icing. Bagging connections in cold environments can prevent icing. Cleaning should be done using a hot water pressure washer or steam cleaner with no solvents thereby eliminating the potential for problems. Do not use metallic or wire brushes to clean threads. It can remove the coatings on couplings and is known to cause galling. An air hose with a trigger valve, should be used to dry pin and box connections. If this is not an option then dry clean rags should be used to dry connections.



Threads should be visually inspected for damage that would prohibit their use. The imperfect pin nose and run out threads may appear rough due to an aggressive de-burr which is normal since it is beneficial to remove the sharp edges which can cause galling. Verify the correct mill end Make-up of the coupling. Refer to Coupling Centering.



Threads should never be stored without grease, light oil or a corrosion inhibitor for protracted periods of time. Efforts should be made to insure that the thread protectors are always clean and dry before reinstallation.

Tubular preparation should be limited to quantities that will be run within a reasonable time span, to reduce the possibility of rusting and pitting.





Thread Repair

Minor thread anomalies may be field repaired with scotch brite (Scotch Brite wheels and pads are allowed). The pin noses should be free of damage that would could cause galling such as dings and heavy scratches. When re-running, the pin noses may be repaired as long as the galling can be removed with scotch brite. Grinders are not allowed. After repairs, threads must be re-cleaned and dried.

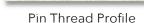
Joints with irreparable damage should be marked accordingly and set aside. Records should be kept on all repairs or rejects.

The couplings are phosphated to reduce galling. In order to reduce the chance of thread galling after thread repair, the area should be coated with Dry Moly Lube (Molybdenum disulfide aerosol spray preferred).

Pipe threads are dovetail flank locking threadforms and require specialty gages to be properly measured. The threads have widened roots and the roots may appear to have discolorations. Threads should never be stored without grease, light oil or a corrosion inhibitor for protracted periods of time.

Efforts should be made to insure that the thread protectors are always clean and dry before reinstallation.

Kluberlub OCTG LF HT, JET-LUBE® RUN-N-SEAL® ECF and Best of Life 2000 are the recommended running compounds and also serve well as storage compounds. For cold weather applications always use an artic grade thread compound. Kluberlub OCTG LF HT & JET-LUBE® RUN-N-SEAL® ECF are recommended for their exceptional high temperature and pressure sealing capabilities. Unless it is otherwise specified by the end user one of these compounds will be used one the mill side of the coupling.







Make Up Preparation

Rig Site Preparation

- The traveling block should be aligned with the well bore.
- Verify that the wear bushing has been pulled or that the I.D. is sufficient to pass all string components.
- Verify that the B.O.P.'s have been fitted with the proper size pipe rams.

Running and Handling Equipment

- All handling equipment should provide maximum protection against tubular damage. In order to do so, all
 equipment should provide the longest practical or necessary die surface. Non-directional dies are
 recommended however directional dies are accepted per API 5CT.
- Ensure that the slips are in good working condition, are fitted with the proper size dies, and will accommodate the weight of the string.
- Ensure that the elevators are in good working condition, are fitted with the proper size dies, and setting plate and will accommodate the weight of the string. Do not use bottleneck elevators. Center latch and side door elevators are preferred; however slip grip elevators may also be used.
- The power tongs should be rated for 1-1/2 times the torque that is to be applied. They should be fitted with the proper size and type of dies, and the dies should conform to the curvature of the tubular. **Tongs equipped with an integral hydraulic backup are recommended**. If it is not available, the snub line should be at a 90-degree angle with the tongs and level.
- A calibrated power tong torque gauge should be placed in the snub line. To achieve peak performance the optimum torque applied to the connection being run should be approximately half of the gauge scale. The handle length of the power tongs should match the handle length for the torque gauge. PSI gauges are not suitable for running production tubulars.
- Hand held or integral hydraulic backups should be used. They should be in working order, fitted with the proper size and type of dies, and should be rated for the torque that is to be applied.
- A stabbing board should be utilized to maintain vertical alignment throughout stabbing and make-up. A stabbing yoke may also be used.
- A safety clamp should be available. It should be in good working condition and sized for the tubular and accessories.









Make Up Preparation

Tubular String Accessories

It is preferable to make in-string accessories up in assemblies. This can be performed at any assembly makeup facility. The assemblies should be made up to optimum torque utilizing a computerized torque monitoring system. When possible use a torque monitoring system comparable to the one that will be utilized in the field. Verify that the thread compound used on the assemblies is the same compound that will be used on location and that it is adequate for the well conditions. The assemblies should also be full length drifted and pressure tested. This will greatly reduce rig down time and connection damage from problems associated with different ODs and lengths of the accessories.

- All accessories that are to be a part of the tubular string should be located and checked against the string design.
- Any accessories that are not present, or do not conform to the string design should be brought to the attention of the appropriate end user representative.
- All accessories that are similar, yet slightly different, should be noticeably marked to indicate the position that they are to be run in the string.
- All accessories should be drifted if possible. Accessories with restricted I.D.'s may also be drifted if arrangements have been made to have reduced size mandrels present.
- Thoroughly clean and dry all the accessory connections.
- Visually inspect the threads.
- If any connections are threaded and coupled, verify correct mill end make-up.
- Damages that can be field repaired at this time should be.
- Any connections that cannot be field repaired should be marked accordingly. Replacement accessory(s) should be
 ordered, or the damaged part should be rethreaded, time permitting.
- Clean and dry protectors should be placed back on the connections.

Recommended Accessories:

Typical Accessories:

Stabbing Guide Nubbin/Handling Plug Float Shoe Crossovers

Float Collar Integral centralizers & reamers

Marker joints Bottom hole assemblies

CRT running tools Hangars

Fill up and circulation tools Bit assemblies

Lifting Nubbins BACE Tools "Buoyancy Assisted Casing Equipment

TIW valves





Running and Pulling Singles

Running

- Gently roll one joint at a time into the pickup trough. Insure that thread protectors are snugly in place prior to doing so. Transport the joint to the rig floor. If a pickup/lay-down unit is not present, transport the tubing to the vee door.
- Remove the box end protector.
- If the tubing is to be rabbited, the rabbit should be placed in the tubing after installation of the handling plug. If the rabbit is not clean, it should be cleaned and dried prior to placing it in the joint. Should the rabbit stop in the tube, it should be broken free by easily pushing or tapping an object from either end. Do Not beat or tap the outside or end of the tubing with any hard object. Water may be run behind the rabbit to cause it to fall, but no hard objects can be utilized.
- Attach the pickup line and raise the joint at a moderate speed, for both safety and tubular protection.
- Remove the pin end protector, the rabbit, and inspect/re-inspect the pin end connection.
- If any debris is present, the pin connector should be wiped, or blown clean.
- If applicable, apply thread compound to the pin end connector. Application of thread compound should be controlled and thorough.
- Remove the handling plug from the box end in the rotary.
- If debris is present, the box connection should be wiped, or blown clean.
- If applicable, apply thread compound to the box end connector.
- Place the stabbing guide over the box end connector.
- Slack off of the joint in the pick up line. The joint should be lowered slowly to minimize thread damage.
- The stabber should stab the joint and hold it as close to true vertical as possible at all times. **Note:** He should be advised not to hold the handling plug (if used). Doing so might cause the handling plug to unscrew when turning the tubing.
- Remove the stabbing guide and the pick up line.
- When possible, start the connection by hand and add additional torque using a nylon strap wrench. As a minimum a full turn past stab is usually good enough. This technique can prevent cross-threading.
- Apply the power tongs and begin makeup at five R.P.M.'s. If torque is achieved prematurely, stop makeup immediately and check vertical alignment. Attempt makeup again. If premature torque is still present, back out the connection and check for damage. Repair or lay the joint aside and proceed. Tong speed should be slowed to five R.P.M. or less prior to shoulder. The shoulder torque should be verified as acceptable. If a CRT is used for make up, hold torque for at least 10 seconds to ensure full torque transfer to the connection.
- Note: Five R.P.M.'s = 12 seconds per rotation





Running and Pulling Singles

Running-Continued

- Remove the power tongs, and if applicable, review the torque turn graph. Back out any connections if the graph indicates a potential problem.
- If testing above the rotary, insert the internal test tool or apply the external test unit. You should not perform this step until Full torque has been applied to the connection.
- After full torque has been achieved, latch the elevators as gently as possible, and raise the block at a slow speed. If the block is raised too rapidly, swaging of the tubing may occur.
- Pull the slips and lower the string.
- Stop the downward movement of the string and either set the slips or firmly hold them around the tubing. Assure that the slips are set or are placed correctly and gently set the string weight on the slips. Applying weight too rapidly may swage the tubing.
- Attach the pickup line to the next joint to be run and unlatch the elevators from the last joint run. Hold the elevators far enough away from the joint in the rotary to prevent contact, and raise the block at a moderate speed.

Pulling

- Gently latch the elevators around the joint in the rotary, and raise the block at a slow even speed.
- Stop movement of the string and either set the slips or firmly hold them around the tubing. Assure that the slips are set or are placed correctly and gently set the string weight on the slips.
- Unlatch the elevators and raise them above the joint to be backed out.
- Have the stabber hold the joint to be backed out as close to true vertical as possible.
- Apply power tongs and slowly apply torque until the connection breaks. Slowly back out the connection (5 R.P.M.'s) until most of the interference is no longer present. Remove the tongs. Finish back out by hand or strap wrench. Stop when the connection "hops" once.
- Attach the pickup line.
- Note: If available, a single joint compensator should be used to reduce the bearing weight applied to the mating threads. This unit should actually be able to float the joint during breakout and have the ability to provide movement needed during thread disengagement.





Running and Pulling Singles

Pulling -Continued

- Latch the stabbing guide around the box end to reduce jump out damage.
- Gently raise the joint. If the connection does not appear to be free, turn counter clockwise one half turns and try to lift again.
- Dope the pin connection thoroughly and install a clean thread protector.
- Slowly set the joint in the vee-door.
- Re-install thread protectors and move tubing to racks.

NOTE: If the tubing is to be sent in for inspection and salvaged you must at a minimum rinse the OD & ID and connections with fresh water to remove any corrosive fluids. It is recommended that a pressure washer be used to fully clean the tubulars. (Elevate the tube on the box end slightly to ensure proper drainage).

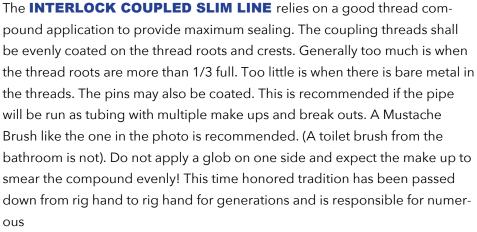
• Once the connections are dry, thoroughly dope the pin and box connectors and re-install a clean thread protector.

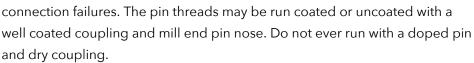




Thread Compound application "Doping"

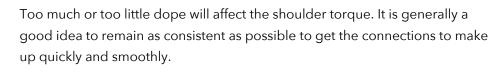








It is recommended that boxes be doped on the rack and pins on the rig floor. This is to avoid contaminating the grease on the pins. If the pin is clean then a clean thread protector with no dope should be used when handling the pipe up the vee door. Do not screw a dirty cap onto a freshly doped pin, because this will cause the coupling to turn, shoulder high or no shoulder.





At all costs avoid getting the grease wet with water. This will slicken up the grease and can cause the connection to yield prematurely. If the dope gets wet while filling the casing, clean, dry and reapply fresh dope!

JET-LUBE® RUN-N-SEAL® ECF is highly recommended for temperatures exceeding 200°F and all horizontal wells due to the heat generated from applying high torque. JET-LUBE® RUN-N-SEAL® ECF, Kluberlub OCTG LF HT and Best of Life 2000 are the recommended running compounds. Other proprietary thread compounds may be used that are API Bulletin 5A2 compliant and / or equivalent. Artic grades are recommended for cold weather applications. Green-Seal II Thermal is recommended for high temperature steam injection wells.



Representative Torque Graphs

The following torque graphs are supplied to aid in the running of the **INTERLOCK** is he values provided in the technical data sheets are determined by laboratory testing at standard room temperature in a clean environment with perfectly made pipe and perfectly aligned and calibrated tongs. Your conditions will vary, but these guidelines can help to troubleshoot common problems. The graphs depict the full torque profile past yield.

INTERLOCK/Shoulder Torque: Point on the graph where the torque spikes dramatically when the wedge threads lock up and the pin noses make contact.

Yield Torque: Torque that crushes the pin noses and deforms the wedge threads. Generates a lot of heat due to friction.

Optimum Make Up Torque: Recommended torque to ensure pressure integrity, breakout capability and structural stability. The value is between Minimum and Maximum Make Up Torque.

Minimum Make Up Torque: Lowest recommended assembly torque.

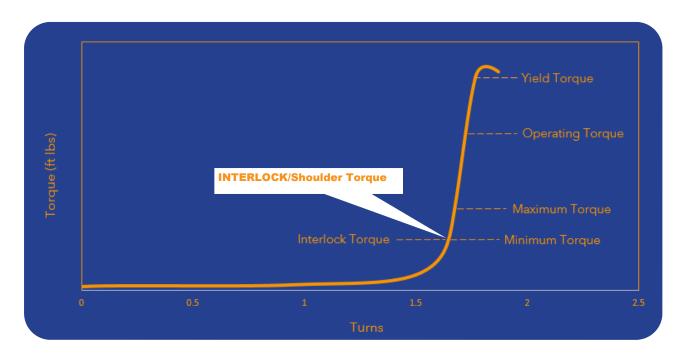
Maximum Make Up Torque: Highest recommended assembly torque. Exceeding this value can make it difficult to re-run the connection if the casing string must be tripped out. It is best to leave the connection together if this value is only slightly exceeded.

Operating Torque: Maximum torque when rotating a casing string under load. Represents a high percent (80%) of yield torque and great care should be taken before making a decision to approach this value. It will be difficult or impossible to break out connections that are run to extreme torques. Breaking out connections run at high torque will cause galling of the pin noses. Making up pipe at this torque could crush the pipe because of the tongs (It may also leave deep tong marks).

Maximum Make Up Speed: 30 RPM up to 8.625" pipe. 25 RPM for pipe 8.625" and larger.

Make up start speed: Begin in High Gear at no more than 30 RPM

Make up end speed: 15 RPM or less to get a good shoulder & graph recommended.







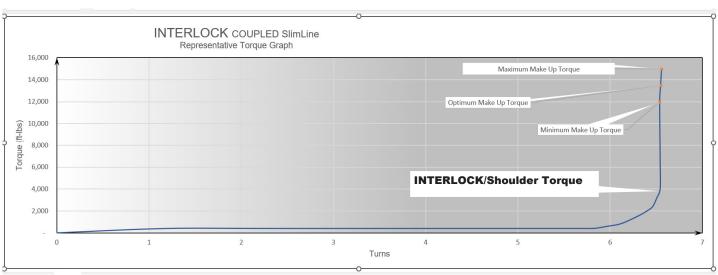
Representative Make Up Graphs

The following torque graphs are supplied to aid in the running of the **INTERLOCK** The values provided in the technical data sheets are determined by laboratory testing at standard room temperature in a clean environment with perfectly made pipe and perfectly aligned tongs with perfectly calibrated tongs. Your conditions will vary, but these guidelines can help to troubleshoot common problems. The graphs depict different make up conditions.

Normal Make Up Graph

The shoulder is expected to occur before the minimum make up torque. Adhering to the minimum, optimum and maximum makeup torques will give the best sealing and ability to trip out the connection easily.

INTERLOCK SLIMLINE







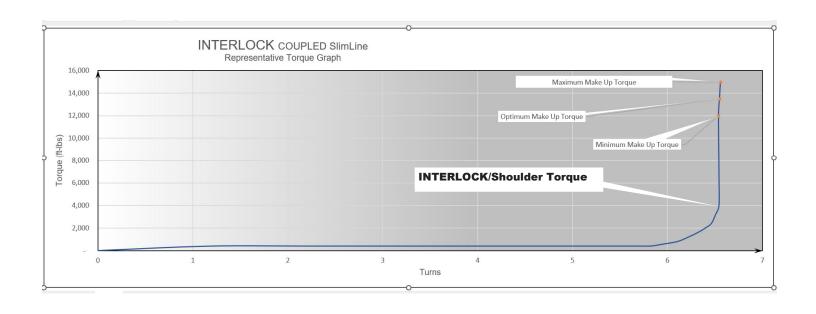
High or Low Shoulder Torque

The shoulder is expected to occur before minimum make up torque. It should shoulder before it reaches 80% of the minimum make up torque to achieve proper delta torque. Under no circumstances should the shoulder occur above the minimum makeup torque. Under no circumstances shall a connection have a *no shoulder or a zero torque shoulder*. The connections should be broken out, cleaned and inspected in order to determine if it should be re-run or laid out. Generally most high shoulders are from improper slack off.

Possible High Shoulder Causes: Possible Low Shoulder Causes:

- Pipe to coupling alignment
- Too much / Too Little Thread compound
- Contaminated thread compound
- Cold or hot temperature affecting thread compound viscosity
- Gripping the coupling too tight
- Turning past the coupling center position—Check make up stamp
- Galled threads

- Too much / Too Little Thread compound
- Contaminated or slicked up thread compounds. Threads that are wet from rain or fluids when the compound is added. Cold or hot temperature affecting thread compound viscosity
- Mill end past the coupling center position—Check triangle stamp.
- Improperly heat treated material on the coupling or pin.
- Bad pitch diameter on the coupling or pin. Check if pin runout threads are very far past the make up stamp.
- Manufacturing defects in the thread







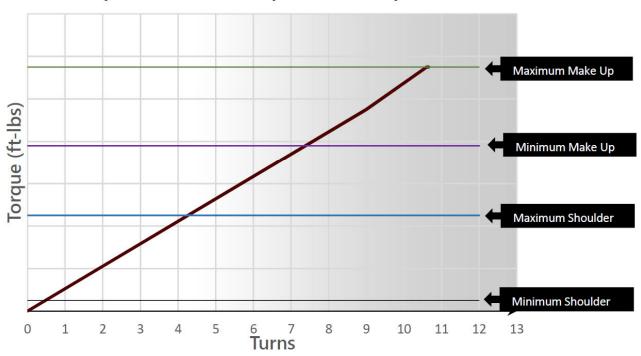
Cross Threading

When cross threading occurs the torque graph can have the appearance of a sloped line. The graph lacks a definitive shoulder at the expected shoulder and can exceed the max makeup torque.

Possible Causes:

- Pipe to coupling alignment
- Too much pipe weight on threads when stabbing
- Connection rocking from: high rpm make up, bent pipe, pipe alignment or rig alignment.

Representative Torque Turn Graph







Running Torque & Rotation

RPM Limitation. It is recommended that 100 RPM be the upper limit especially for doglegs greater than 25° / 100ft. This will keep the fatigue low enough to finish a well in the shale plays. For drilling with casing in vertical wells (Less than 6°/100ft) this limit does not apply. Fatigue is your worst enemy and it comes from the stress reversals through the bend. The less time each joint spends in that zone the better. Tests have shown that 80 to 90 RPM generates a sufficient fluid vortex and decreases side loading friction enough to advance the pipe. Think of the fluid vortex as a tornado that suspends debris that piles up ahead of the casing and around the couplings. RPM is your friend when trying to advance pipe even though most folks think it's torque. It's better to be advancing slowly under high RPM and low torque than low RPM and high torque. The RPM limitation rules apply generally for 4.5" to 7" pipe. Pipe larger than 7" is not typically used in doglegs in the shale plays.

Torque Application & Downhole Makeup. It is not recommended to apply the maximum operating torque during buck on. Downhole makeup is better for several reasons. The pipe is not marred or swaged by the tongs. Torque generates heat and the coupling is generally surrounded by fluid which keeps the connection cool. Downhole make up is more gradual and only the connections at the surface will see the highest torque (torque dissipates the further away you are from the source.) The couplings going through the bend will have lower makeup stress and flexibility. Instead of stressing every connection you only stress a few. Staying within the min and max makeup torques allows the connections to be broken apart (tripped out) and run again. When applying a higher torque at makeup the connection threads and pin noses can be damaged on break out. Higher torque forces the grease out so that when you back out there is little lubrication. The direction of the galling usually indicates this is the case. The final reason is that it is easier to trip out without a powerful tong (logistical nightmare).

Torque Application & RPM. It is recommended that torque be applied gradually as well as RPM. A gradual downhole makeup is preferred versus the impact type forces that result from rapid torque applications or rotational acceleration. There is little advantage and a whole lot of downside. The speed and torque to be applied will differ with the depth of the well since you would be winding up a lot more pipe. The torsion will twist the pipe and it's better to let it wind and unwind slowly downhole.

Reciprocation. Reciprocating the pipe is recommended to aid advancement as long as the pull is below the connection minimum yield. Reciprocating, Rotating and Circulating are the best ways to make bottom. Reciprocation should be gradual to minimize impulse / shock loads. The **INTERLOCK COUPLED SLIM LINE** utilizes the wedge thread profile and can take larger compressive and tension loads than the typical API Buttress. One word of warning though; Do not

exceed the connection yield in pull, some people use the API Joint strength or thread strength. That is the tensile value and you <u>may</u> get one good pull before the joint parts. In any case pulling to this number permanently deforms and weakens the steel. A piece of steel that has been pulled past yield will experience accelerated corrosion downhole.





Troubleshooting

Coupling Turning

Generally the coupling will not turn unless the torque applied is greater than the optimum torque. The Mill side of the coupling is made up to optimum torque. A line can be scribed on the coupling and pipe to determine the amount. Turning of less than 1/4 turn is of little concern. Corrective steps should be taken to remedy the situation if turning is 1/2 turn or persistent on subsequent make ups. Cross threading, debris in the connection (sand or rocks) or alignment over the rotary table could be culprits also.

Pipe to coupling alignment. Couplings can turn when the alignment of the pin and box is mismatched. This causes side loading of the threads. This is a typical complaint regarding pin nose to pin nose connections but it can be remedied by controlling rig vertical alignment and top drive / elevator alignment with the rotary table.

Cross Threading. Couplings can turn if the connection is cross threaded or thread locked. Thread locking occurs when the weight of the pipe causes a misalignment which allows the thread crests to ride on top of each other. Sometimes a popping sound will be heard as the crests eventually slide into the thread roots. Cross threading can occur when stabbing under load, the weight of the pipe can cause pin and coupling thread misalignment. This cocks the connector askew and further make up chews up the threads and turns the couplings. Cross threading may also occur when the connection is allowed to rock side to side during make up. The rocking can come from high rpm make up, bent pipe, pipe alignment or rig alignment.

Thread Compound. Another culprit for coupling turning is improper thread compound application. Too much thread compound can cause a hydraulic lock in the threads. Hydraulic lock is more common in cold climates where the grease is less viscous. Conversely, if thread compound is missing on the threaded surface then bare metal to metal contact generates enough friction to turn the coupling. A thin coating of the pin and coupling threaded surfaces is generally enough to solve this issue. Thread Compound contamination with dust or debris may also increase the friction enough to turn the coupling.

Thread Damage. Thread damage can also cause couplings to turn. Severe dents or gouges can turn into serious galling when the connections are made up. Sometimes the tools that form the threads on pipe or couplings break or chip during manufacture. This can cause the threads to seize up during makeup. Generally this is rare because of coupling inspection processes during manufacture and the fact that one side of the coupling is made up at the factory.





Quick Reference Guide

*To be used with connection data sheet

Make Up Torque

The Torque should be between the Min Make Up and Max Make Up Torque.

Makeup RPM.

Begin in high gear at 30 RPM or less.

Last turn at 15 RPM or less.

Max: 30 RPM up to 8.625" pipe
Max: 25 RPM 8.625" and larger

INTERLOCK/Shoulder Torque

Occurs after both flanks of the thread profile come into contact, should be equivalent to minimum torque

Running RPM

Recommended: 80-90 or lower Max: 100 RPM in a dogleg.

Time at Max: 12 hours or less in high dogleg. Operating torque depends on CRT limits.

Running Torque

Min: As low a possible to get the job done
Max: Max Operating Torque (80% Yield Torque)

Thread Compound

Jet Lube Run N Seal ECF & Kluberlub OCTG LF HT highly recommended (Good for temperatures exceeding 150°F). BOL 2000 also works well. Use artic grades below 50°F.



Recommended Equipment

Stabbing Guide

Recommended for running and pulling to prevent thread damage

The Coupling can generally be lifted by elevators, but has a smaller outer diameter compared to LTC or BTC. The coupling OD is the same as special clearance BTC.

Weight Compensator

Recommended to prevent thread damage by neutralizing tool and joint weight.

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