

Pre-Running Preparation

Pre-running

1. Locate and inspect all necessary accessories and tools on location, such as: pup joints, crossovers, float equipment, stabbing guides, handling / lifting plugs, single joint elevators, thread compound, tong dies.
2. Verify the pipe and accessories have genuine TenarisHydril manufactured connections.
3. Verify interchangeability of accessories with main string, size, weight and connection type.
4. Connection interchange capabilities can be found in the product Data Sheet available from the Tenaris website.
5. Verify grade of all accessories, ensuring compatibility with main string.

Protectors

1. Remove and clean protectors as the pipe is racked out.
2. Stack protectors on a clean, dry surface as they are removed and ensure they are not contaminated by debris, corrosive fluids or water.
3. Do not use broken or damaged protectors.
4. If debris or fluids contaminate the protectors, clean thoroughly and dry prior to re-installation.

5. Dopeless® connections have specific thread protectors with rubber rings that act as corrosion barrier.



**THREAD PROTECTORS FOR DOPELESS® /
DOPELESS® 3.0/3.1 TECHNOLOGIES**

Rubber rings act as a corrosion barrier.

6 .Bumper rings should only be removed once the pipe has been received and racked at the rig site and should be re-installed prior to the pipe being transported.



RACKING SYSTEM

With bumper rings to protect flush connections.

Drifting

1. Drift the pipe prior to cleaning and inspecting the connections.
2. Ensure drift mandrels meet API dimensional requirements (reference API Specification 5CT) or specified special drift requirements.
3. Using compressed air blow out the pipe ID from box to pin to completely remove loose mill scale and accumulated debris.
4. Drift from box to pin, be careful not to damage connections during drifting operations.
5. Pipe that fail the drift test should be marked with a red paint band either side of the restriction and marked as "No Drift" then segregated from the main string for further investigation.
6. Use a nylon / plastic drift for chrome, CRA, internally plastic coated (IPC), Fiber Glass Lined (FGL) and Glass Resin Epoxy (GRE) lined material.
7. In the case of IPC, FGL and GRE lined pipe the drift dimensions will require to be reduced dependent on coating / liner thickness.

API Standard Drift Mandrel Size (min.)

PRODUCTS & SIZES	LENGTH		DIAMETER	
	inch	mm	inch	mm
CASING AND LINERS				
Smaller than 9 5/8"	6	152	d - 1/8	d - 3.18
9 5/8" to 13 3/8"	12	305	d - 5/32	d - 3.97
Larger than 13 3/8"	12	305	d - 3/16	d - 4.76

PRODUCTS & SIZES	LENGTH		DIAMETER	
	inch	mm	inch	mm

TUBING

≤ 2 7/8"	42	1067	d - 3/32	d - 2.38
> 2 7/8" to ≤ 8 5/8"	42	1067	d - 1/8	d - 3.18
> 8 5/8" to < 10 3/4"	42	1067	d - 5/32	d-3.97

D= NOMINAL PIPE BODY INTERNAL DIAMETER

Some Alternate Drift Sizes

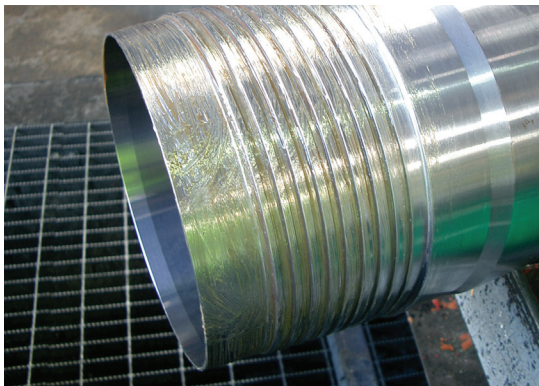
OD	WEIGHT	DRIFT
inches	ppf	inches
7	23	6.25
7	29	6.125
7	32	6
7 3/4	46.1	6.5
8 5/8	32	7.875
8 5/8	40	7.625
9 5/8	40	8.75
9 5/8	53.5	8.5
9 5/8	58.4	8.375
9 7/8	65.1	8.5
10 3/4	45.5	9.875
10 3/4	55.5	9.625
11 3/4	42	11
11 3/4	60	10.625
11 3/4	65	10.625
13 3/8	72	12.25

NOTE: CHECK MILL STENCIL AND OD OF DRIFT PRIOR TO COMMENCING DRIFTING OPERATIONS.

Cleaning

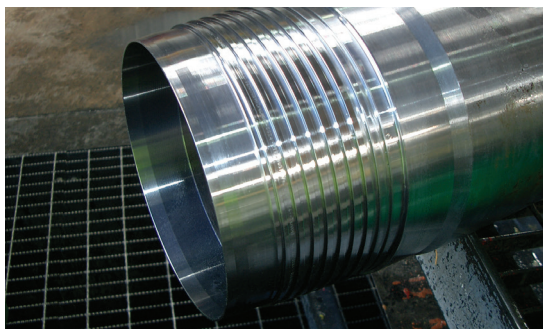
1. Storage compounds do not have the correct lubrication properties for making up connections.
2. All storage compound should be completely removed from the connections.
3. Cleaning of the connections to remove storage compound should be carried out as close to the time of running as possible.
4. Clean connections using one of the following methods:
 - A non-metallic brush and cleaning solvent.
 - Steam clean with fresh water and cleaning solvent.
 - A rotary bristle brush with high pressure water jet and cleaning solvents.
 - High pressure water blast.
5. Do not use diesel or oily solvents. These are difficult to remove and affect running compound.
6. Dry the cleaned connections using compressed air then reinstall clean, dry protectors.
7. If cleaned connections are left exposed for over 12 hours, apply light oil to the connections with a spray or soft brush and install clean, dry protectors.
8. The lightly oiled connections can then be lifted to the rig floor, the protectors removed and the oil cleaned off prior to applying running compound.
9. If connections need to be exposed for over 72 hours, apply a suitable storage compound and install clean, dry protectors.
10. Dopeless® connections do not require cleaning unless contaminated.

11. Cleaning of Dopeless® connections should only be carried out using a mild detergent in fresh water and a soft bristle brush or rags.



CONNECTIONS PRIOR TO CLEANING

The complete removal of all storage compounds is very important.



PROPERLY CLEANED CONNECTIONS

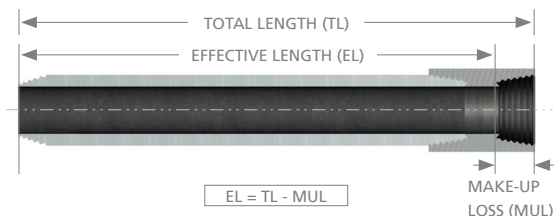
Connections should be completely clean of all contamination prior to applying running compound.

12. Dopeless® connections should have no compounds applied to the threads and arrive with specific thread protectors installed.

13. If Dopeless® connections have been contaminated, clean with fresh water and mild detergent using clean rags. Do not use high pressure water, steam, rotary brushes or any sort of solvent.

Pipe measuring

1. Remove protectors then reinstall immediately after measuring each pipe.
2. Measure and note full length; box face to pin nose.
3. Effective length can then be calculated by subtracting make up loss (MUL) from total length.
4. MUL for each connection is indicated on the relevant product data sheet.



MEASURING

Inspection

1. Check all pipe and accessory connections are genuine TenarisHydril manufactured.
2. Ensure the pipe can be rolled a minimum of 2 full rotations to facilitate complete cleaning and inspection.
3. Inspect all connections for damage, as outlined in GDL31457.
4. Field repair can only be performed by a Tenaris Field Service Representative.

5. Re-install clean, dry thread protectors upon completing inspection.
6. For Dopeless® connections ensure coating is undamaged.
7. All rejects should be clearly marked and segregated away from pipe to be run.

Connection Preparation

1. Handle all pipe with the correct thread protectors in place.
2. API Modified running compound is recommended for all connections.
3. For a list of thread compounds approved by Tenaris see FTD29356.
4. Use a thermal grade running compound when the service temperature exceeds 250°F / 120°C.



RUNNING COMPOUND APPLICATION.

5. Use an Arctic grade running compound in freezing temperatures. The compound should be free of water and ice particles and kept warm in the dog house or with a warming device.
6. Dopeless® connections do not require the application of thread compound.

Running compound application

1. Running compound should be completely homogenized prior to use.
2. Never use a running compound that has reached its expiry date.
3. Ensure the connections are completely clean and free from debris / contamination prior to applying running compound.
4. For specific thread compound application refer to the individual connection running guideline.
5. Apply the running compound with the use of a soft bristle brush, moustache brush or similar.
6. Never add a thinning agent as this seriously affects the properties of the running compound.
7. Ensure the running compound is kept free of contaminants.
8. Excess compound on the connections should be removed.
9. For doped connections in chrome or CRA a thin coat of molybdenum disulfide may be applied to the seals and threads, subject to Field Services representative advice and in agreement with client representative prior to implementation.

10. For Wedge™ Series 500, Wedge™ Series 600, MACII™, SLX® and CS® in chrome or CRA apply a thin coat of molybdenum disulfide spray to any shiny areas on the pin seal.
11. Always allow the coating of molybdenum disulfide to dry prior to applying thread compound.
12. For Dopeless® connections thread compound is not required.
13. Ensure Dopeless® connections are clean and free of all debris or contamination, leave protectors in place as long as possible.

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