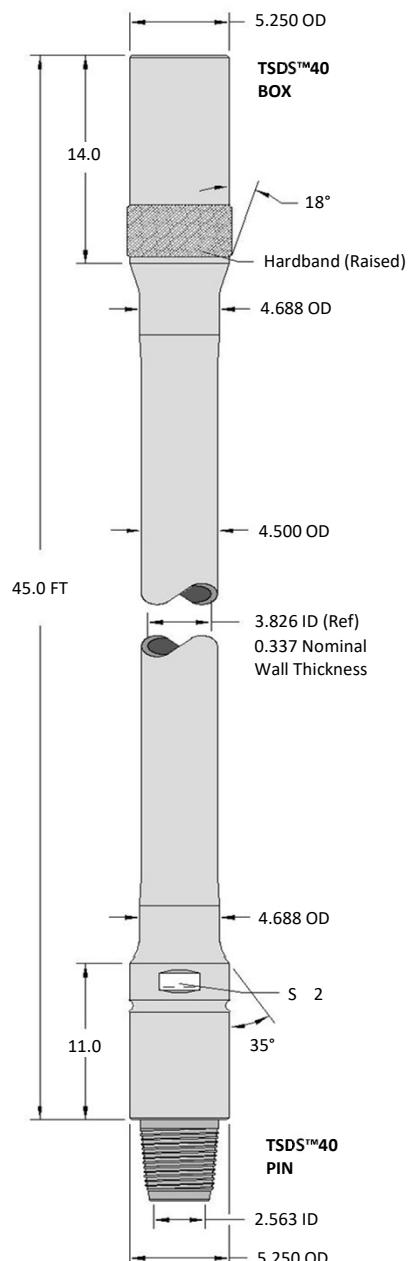


**DRILL PIPE: 4 1/2" IEU by 16.60 lb/ft by Grade S by Range 3 (45.0 ft)**  
**TOOL JOINT: 5 1/4" OD by 2 9/16" ID by TSDS™40 (135 ksi SMYS)**

Premium class values based on a minimum wall thickness equal to 80% of New drill pipe body nominal wall thickness, reference API RP 7G-2.

Drill pipe body performance properties are based on API RP 7G. Class New drill pipe body data is for reference only and is not intended for drill string design purposes.

- Make-Up Torque values shown under column 1.0 are based on using a 1.0 friction factor thread compound (0.08 coefficient of friction).
- Make-Up Torque values shown under column 1.15 have been adjusted based on using a 1.15 friction factor thread compound. The make-up torque values are only applicable when using a thread compound rated by the manufacturer to have a 1.15 friction factor.
- Recommended Make-Up Torque is based on 60% of the connection torsional yield, ref. API RP 7G.
- Max Make-Up Torque is based on 70% of the connection torsional yield. It is the maximum make-up torque that can be applied to the connection to prevent downhole make-up, reference IADC Drilling Manual. Never exceed Max Make-Up Torque.
- Torsional strength ratio is less than 0.80



Assembly data based on TSC 95% RBW New drill pipe nominal dimensions and no internal plastic coating. Conversion Factor: 1 BBL = 42 US gallons  
For internal plastic coated drill pipe, above drift diameter shall be reduce by the amount specified by the plastic coating applicator.

Notes:

1. All data is calculated based on standard methods. No safety factor applied.
2. Premium Class drill pipe body data is based on a minimum wall thickness equal to 80% of New drill pipe nominal wall thickness, reference API RP 7G-2.
3. Drawing is for reference purposes only, not to scale, and based on New drill pipe nominal dimensions, units of inches unless otherwise indicated.

The technical information contained herein is for reference purposes only and is not a recommendation. TSC Drill Pipe does not assume responsibility for results obtained through the use of the technical information, no warranty is expressed or implied. User is fully responsible for the accuracy and suitability of use of the technical information and application of appropriate safety factors. TSC Drill Pipe reserves the right to amend or update the data sheet at any time without notification. Email sales at [sales@drillpipe.com](mailto:sales@drillpipe.com) or visit [drillpipe.com](http://drillpipe.com) for the latest data sheets.

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