

DRILL PIPE DATA SHEET

DRILL PIPE: 5 1/2 IEU by 24.70 lb/ft by Grade S by Range 2 (31.5 ft)

TOOL JOINT: 6 5/8" OD by 4 1/4" ID by PTECH+TM55 (135 ksi SMYS)

DRILL PIPE BODY DIMENSIONAL DATA		
	NEW (100% RBW)	PREMIUM (80% RBW)
OD (in)	5.500	5.334
ID, Ref (in)	4.670	4.670
Wall Thickness (in)	0.415	0.332
Cross Sectional Area (in ²)	6.630	5.217
Polar Section Modulus, J/c (in ³)	15.688	12.290
Section Modulus, I/c (in ³)	7.844	6.145

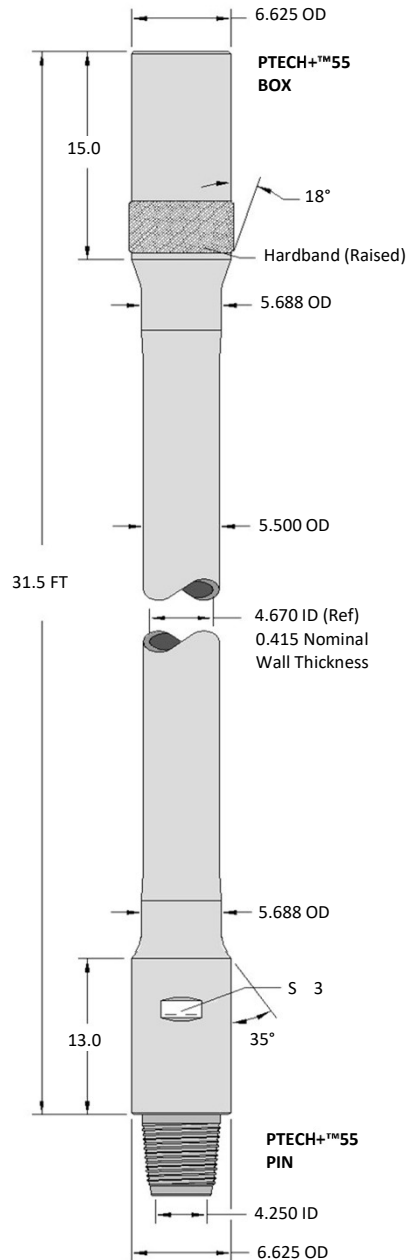
Premium class values based on a minimum wall thickness equal to 80% of New drill pipe body nominal wall thickness, reference API RP 7G-2.

DRILL PIPE BODY PERFORMANCE PROPERTIES		
	NEW (100% RBW)	PREMIUM (80% RBW)
Tensile Yield (lb)	894,999	704,313
Torsional Yield (ft-lb)	101,833	79,776
Collapse Pressure (psi)	17,023	11,177
Internal Yield Pressure (psi)	17,826	16,298
Material Yield Strength (psi)	135,000	

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.

TOOL JOINT DATA (New)		
Connection Size	PTECH+ TM 55	
OD (in)	6.625	
ID (in)	4.250	
Box Tool Joint OD Length (in)	15.0	
Pin Tool Joint OD Length (in)	13.0	
Connection Bevel Diameter (in)	6.441	
Material Yield Strength (psi)	135,000	
Thread Compound Friction Factor	1.0 (a)	1.15 (b)
Recommended Make-Up Torque (ft-lb)	51,800	59,600
Max Make-Up Torque (ft-lb)	60,400	69,500
Torsional Yield (ft-lb)	86,400	
Torsional Strength Ratio (TJ/DPB)	0.85	
Approximate Tension to Yield Pin at Recommended Make-Up Torque (lb)	809,600	
Approximate Tension to Yield Pin at Max Make-Up Torque (lb)	608,200	
Tool Joint Tensile Yield (lb)	1,146,700	
Balanced OD (in)	6.605	

- (a) 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).
- (b) 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.
- (c) Recommended Make-Up Torque is based on 60% of the connection torsional yield, ref. API RP 7G.
- (d) 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.
- (e) Tension less than Premium Class (80% RBW) drill pipe body tensile yield capacity.



ASSEMBLY DATA (New)							
Weight (Approx.)		Capacity (Approx.)		Displacement Open Ends (Approx.)		Drift Diameter	Assembly Length Shld'r to Shld'r (Approx.)
(lb/joint)	(lb/ft)	(US gallon/ft)	(BBL/ft)	(US gallon/ft)	(BBL/ft)	(in)	(ft)
884	28.05	0.8511	0.0203	0.4286	0.0102	4.125	31.5

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 reduced by the amount specified by the plastic coating applicator.

Notes:

- All data is calculated based on standard methods. No safety factor applied.
- 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.
- 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 factor. TSC Drill Pipe reserves the right to amend or update the data sheet at any time without notification. Email sales@drillpipe.com or visit drillpipe.com for the latest data sheets.

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