

Pipe Size:	5.000 in	Grade:	S135	Range:	2
Pipe Weight:	19.50 lb/ft	Upset:	IEU	Connection:	530 DUO

Pipe

		NEW	API PREMIUM
Pipe size	<i>in</i> 5.000	OD <i>in</i> 5.000	4.855
Pipe weight	<i>lb/ft</i> 19.50	Thickness <i>in</i> 0.362	0.290
Upset Type	IEU	X-Sec Area <i>in²</i> 5.275	4.154
Tube grade	S135	Section Modulus <i>in³</i> 5.708	4.476
Range	2	Polar Section Modulus <i>in³</i> 11.415	8.953
Tube Yield	<i>ksi</i> 135	Tensile Yield <i>lbs</i> 712,000	561,000
ID	<i>in</i> 4.276	Torsional Yield <i>ft-lbs</i> 74,100	58,100
		80% Torsional Yield <i>ft-lbs</i> 59,300	46,480
		Internal Pressure Yield <i>psi</i> 17,100	15,600
		Collapse Yield <i>psi</i> 15,700	10,000
		D/t 13.81	16.77
		Connection/Tube Torsional Ratio 1.126	

Tool Joint

		NEW
Connection Type	530 DUO	OD <i>in</i> 6.500
Material Yield Strength	<i>ksi</i> 130	Tensile Yield Strength <i>lbs</i> 1,285,900
OD	<i>in</i> 6.500	Torsional Yield Strength <i>ft-lbs</i> 83,400
ID	<i>in</i> 3.750	Recommended Makeup Torque <i>ft-lbs</i> 50,100
Pin Shoulder Angle	<i>deg</i> 18	Maximum Makeup Torque <i>ft-lbs</i> 54,200
Pin Tool Joint Length	<i>in</i> 14.0	
Box Tool Joint Length	<i>in</i> 14.0	

Drill Pipe Assembly

Shoulder-Shoulder Length	<i>ft</i> 31.50	
Adjusted Weight	<i>lbs/ft</i> 23.02	
Closed End Displacement	<i>gal/ft</i> 1.077	<i>bbl/ft</i> 0.0257
Open End Displacement	<i>gal/ft</i> 0.352	<i>bbl/ft</i> 0.0084
Fluid Capacity	<i>gal/ft</i> 0.726	<i>bbl/ft</i> 0.0173
Drift Size	<i>in</i> 3.625	

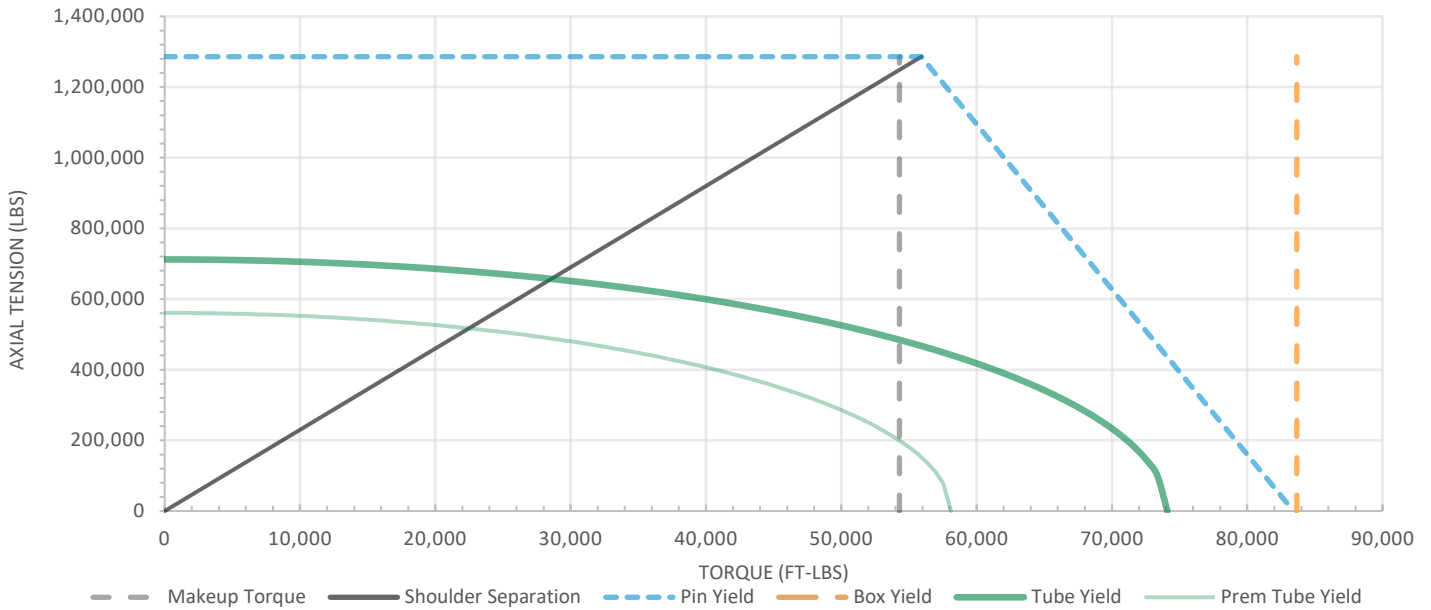
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Calculations are based on uniform wall thickness and outside diameter – no safety factor has been applied. The information provided for inspection classes is based on uniform wear and is not intended to recommend or confirm operational limits of any used product. It is recommended that drilling torque not exceed 80% of the makeup torque, however it is the responsibility of the end user to determine the acceptable use of the end product including appropriate performance ratings and safety factors where applicable. All connection torque calculations have been performed using a thread compound friction factor of 1.0. Complete Tubular Products does not endorse any specific thread compound and waives all responsibility in determining appropriate makeup torque values for any specific drilling circumstance. Modifying makeup torque values for any reason shall be done at the end users discretion and risk.

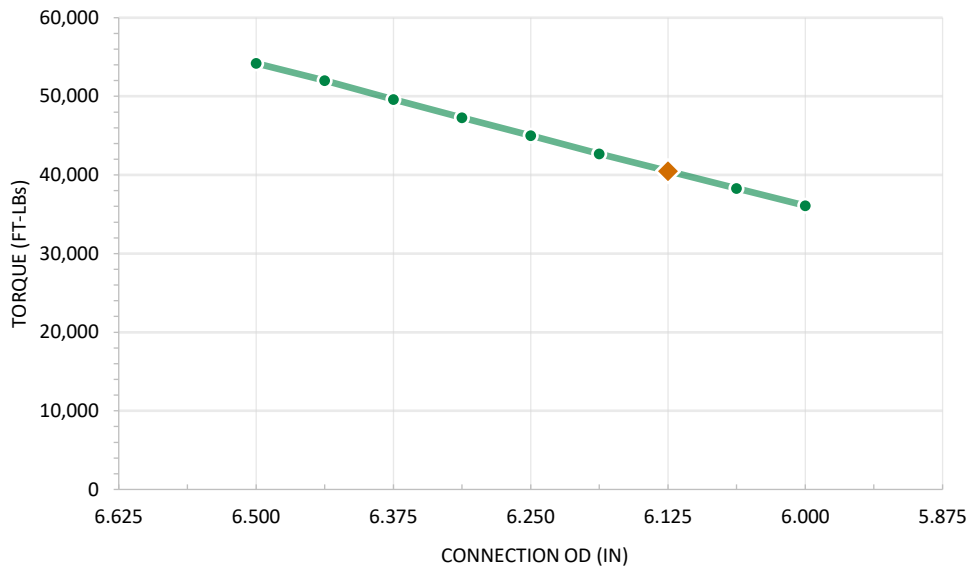
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Makeup Torque Then Tension Chart



Connection Wear Chart



CONNECTION OD (in)	MAXIMUM MAKEUP TORQUE (ft-lbs)
6.500	54,200
6.438	52,000
6.375	49,600
6.313	47,300
6.250	45,000
6.188	42,700
6.125	40,500
6.063	38,300
6.000	36,100
MIN REC OD (in)	
6.125	40,500

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