

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		1.136	1.449

Tool Joint

				NEW	
Connection Type		530 DUO	OD	<i>in</i>	6.500
Material Yield Strength	<i>ksi</i>	135	Tensile Yield Strength	<i>lbs</i>	1,335,300
OD	<i>in</i>	6.500	Torsional Yield Strength	<i>ft-lbs</i>	84,200
ID	<i>in</i>	3.750			
Pin Shoulder Angle	<i>deg</i>	18	Recommended Makeup Torque(60% TYS)	<i>ft-lbs</i>	50,500
Pin Tool Joint Length	<i>in</i>	14.0	Max Makeup Torque(65% TYS)	<i>ft-lbs</i>	54,700
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		

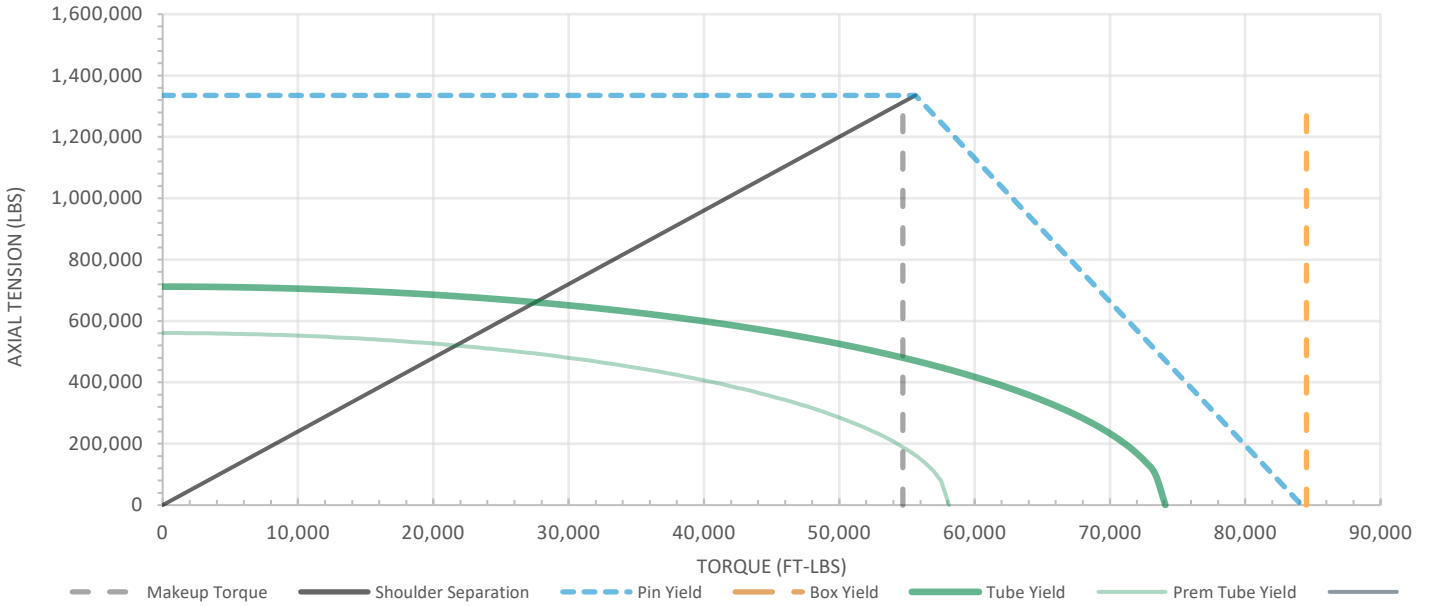
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Calculations are based on uniform wall thickness and outside diameter – no safety factor has been applied. The information provided for inspection classes is based on uniform wear and is not intended to recommend or confirm operational limits of any 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.

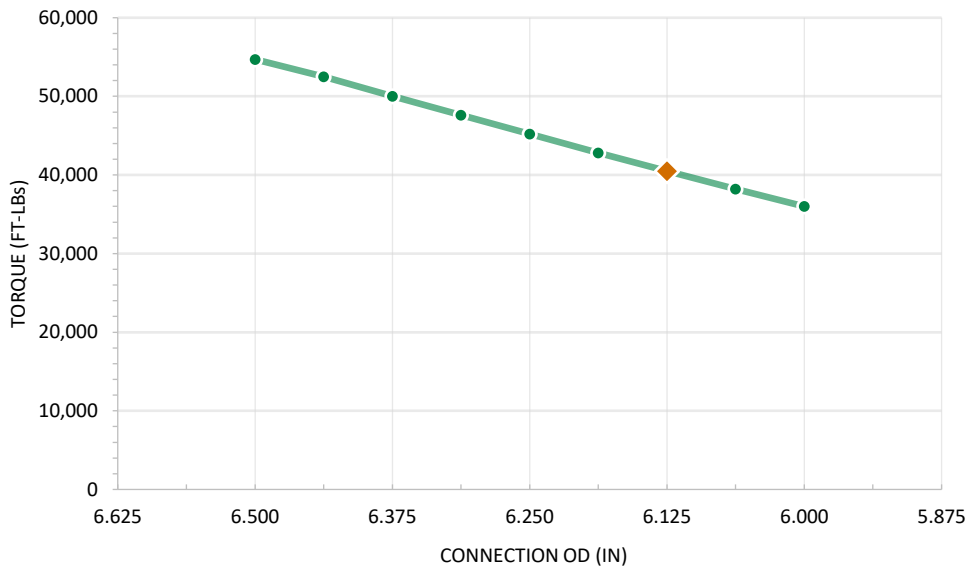
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Pipe Size: 5.000 in Grade: S135 Range: 2
 Pipe Weight: 19.50 lb/ft Upset: IEU Connection: 530 DUO

Makeup Torque Then Tension Chart



Connection Wear Chart



CONNECTION OD (in)	MAXIMUM MAKEUP TORQUE (ft-lbs)
6.500	54,700
6.438	52,500
6.375	50,000
6.313	47,600
6.250	45,200
6.188	42,800
6.125	40,500
6.063	38,200
6.000	36,000
MIN REC OD (in)	40,500

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