

Pipe

				NEW	API PREMIUM	
Pipe size	<i>in</i>	5.500	OD	<i>in</i>	5.500	5.334
Pipe weight	<i>lb/ft</i>	24.70	Thickness	<i>in</i>	0.415	0.332
Upset Type		IEU	X-Sec Area	<i>in²</i>	6.630	5.217
Tube grade		S135	Section Modulus	<i>in³</i>	7.844	6.145
Range		2	Polar Section Modulus	<i>in³</i>	15.688	12.290
Tube Yield	<i>ksi</i>	135	Tensile Yield	<i>lbs</i>	895,000	704,000
ID	<i>in</i>	4.670	Torsional Yield	<i>ft-lbs</i>	101,800	79,800
			80% Torsional Yield	<i>ft-lbs</i>	81,400	63,840
			Internal Pressure Yield	<i>psi</i>	17,800	16,300
			Collapse Yield	<i>psi</i>	17,000	11,200
			D/t		13.25	16.07
			Connection/Tube Torsional Ratio		1.015	1.294

Tool Joint

				NEW	
Connection Type		580 DUO	OD	<i>in</i>	7.000
Material Yield Strength	<i>ksi</i>	135	Tensile Yield Strength	<i>lbs</i>	1,467,200
OD	<i>in</i>	7.000	Torsional Yield Strength	<i>ft-lbs</i>	103,300
ID	<i>in</i>	4.250			
Pin Shoulder Angle	<i>deg</i>	18	Recommended Makeup Torque(60% TYS)	<i>ft-lbs</i>	62,000
Pin Tool Joint Length	<i>in</i>	14.0	Max Makeup Torque(65% TYS)	<i>ft-lbs</i>	67,200
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>	27.84	
Closed End Displacement	<i>gal/ft</i>	1.297	<i>bbl/ft</i> 0.0309
Open End Displacement	<i>gal/ft</i>	0.425	<i>bbl/ft</i> 0.0101
Fluid Capacity	<i>gal/ft</i>	0.872	<i>bbl/ft</i> 0.0208
Drift Size	<i>in</i>	4.125	

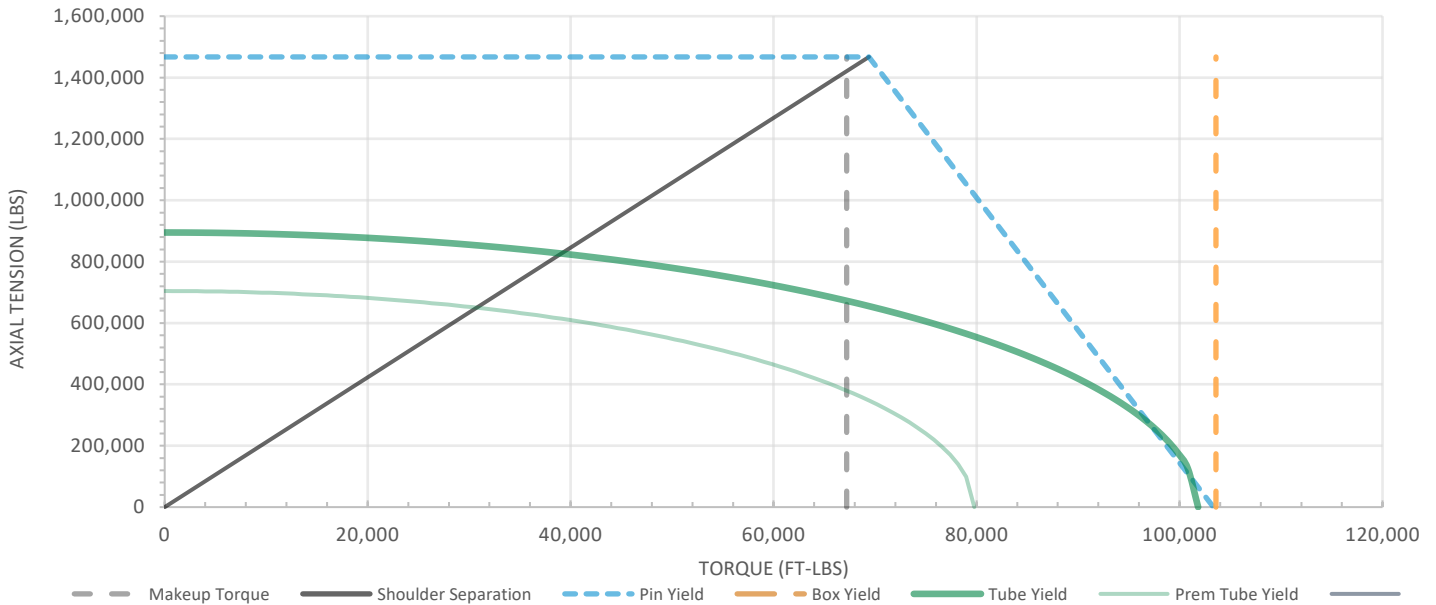
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Calculations are based on uniform wall thickness and outside diameter – no safety factor has been applied. The information provided for inspection classes is based on uniform wear and is not intended to recommend or confirm operational limits of any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

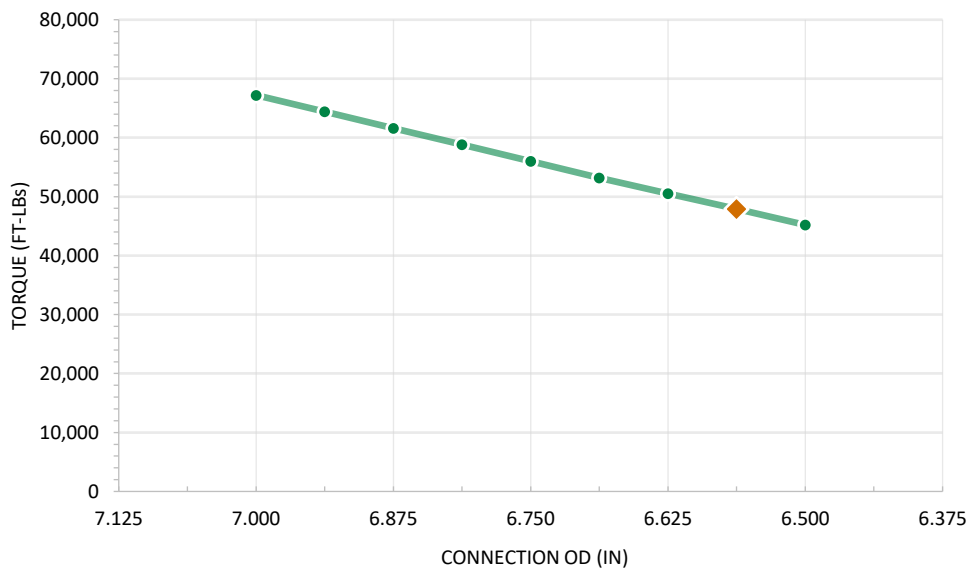
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Pipe Size: 5.500 in Grade: S135 Range: 2
 Pipe Weight: 24.70 lb/ft Upset: IEU Connection: 580 DUO

Makeup Torque Then Tension Chart



Connection Wear Chart



CONNECTION OD (in)	MAXIMUM MAKEUP TORQUE (ft-lbs)
7.000	67,200
6.938	64,400
6.875	61,600
6.813	58,800
6.750	56,000
6.688	53,200
6.625	50,500
6.563	47,900
6.500	45,200
MIN REC OD (in)	47,900
6.563	47,900

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