

Pipe Size:	2.375 in	Grade:	S135	Range:	2
Pipe Weight:	6.65 lb/ft	Upset:	EU	Connection:	CTP 23

Pipe

		NEW	API PREMIUM
Pipe size	<i>in</i> 2.375	OD <i>in</i> 2.375	2.263
Pipe weight	<i>lb/ft</i> 6.65	Thickness <i>in</i> 0.280	0.224
Upset Type	EU	X-Sec Area <i>in²</i> 1.843	1.435
Tube grade	S135	Section Modulus <i>in³</i> 0.867	0.667
Range	2	Polar Section Modulus <i>in³</i> 1.733	1.334
Tube Yield	<i>ksi</i> 135	Tensile Yield <i>lbs</i> 249,000	194,000
ID	<i>in</i> 1.815	Torsional Yield <i>ft-lbs</i> 11,300	8,700
		80% Torsional Yield <i>ft-lbs</i> 9,000	6,960
		Internal Pressure Yield <i>psi</i> 27,900	25,500
		Collapse Yield <i>psi</i> 28,100	24,100
		D/t 8.48	10.10
		Connection/Tube Torsional Ratio 0.577	

Tool Joint

		NEW
Connection Type	CTP 23	OD <i>in</i> 2.875
Material Yield Strength	<i>ksi</i> 130	Tensile Yield Strength <i>lbs</i> 232,500
OD	<i>in</i> 2.875	Torsional Yield Strength <i>ft-lbs</i> 6,500
ID	<i>in</i> 1.500	Recommended Makeup Torque <i>ft-lbs</i> 3,900
Pin Shoulder Angle	<i>deg</i> 18	
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> 7.07	
Closed End Displacement	<i>gal/ft</i> 0.238	<i>bbl/ft</i> 0.0057
Open End Displacement	<i>gal/ft</i> 0.108	<i>bbl/ft</i> 0.0026
Fluid Capacity	<i>gal/ft</i> 0.130	<i>bbl/ft</i> 0.0031
Drift Size	<i>in</i> 1.375	

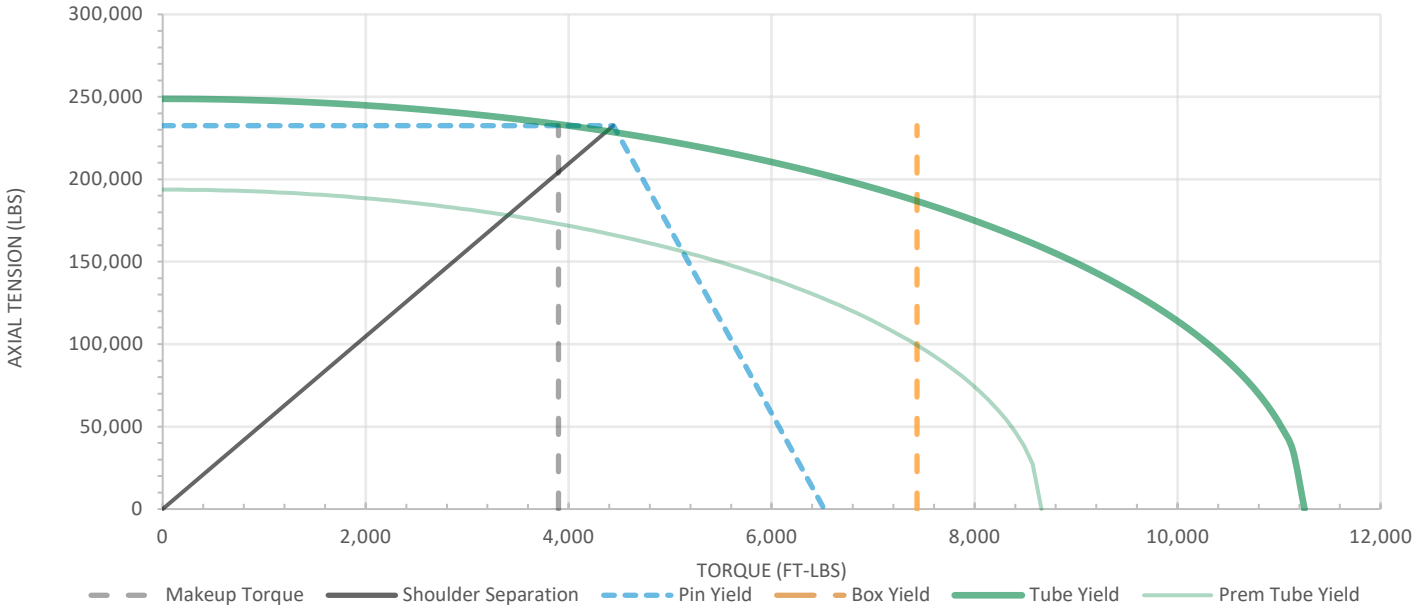
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Calculations are based on uniform wall thickness and outside diameter – no safety factor has been applied. The information provided for inspection classes is based on uniform wear and is not intended to recommend or confirm operational limits of any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

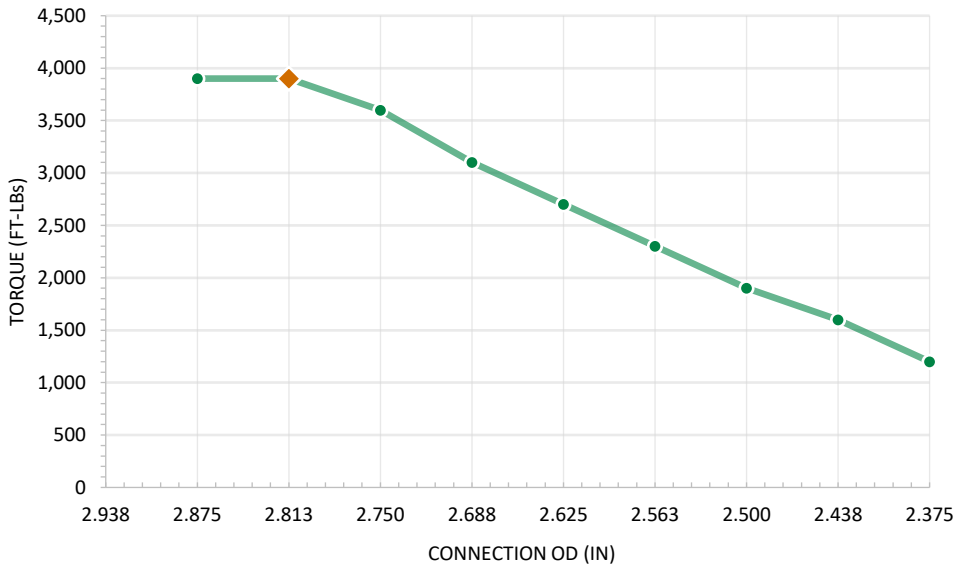
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Makeup Torque Then Tension Chart



Connection Wear Chart



CONNECTION OD (in)	MAKEUP TORQUE (ft-lbs)
2.875	3,900
2.813	3,900
2.750	3,600
2.688	3,100
2.625	2,700
2.563	2,300
2.500	1,900
2.438	1,600
2.375	1,200
MIN REC OD (in)	2.813
	3,900

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