

Pipe Size:	4.750 in	Grade:	S135	Range:	3
Pipe Weight:	17.50 lb/ft	Upset:	IEU	Connection:	480 DUO

Pipe

		NEW	API PREMIUM
Pipe size	<i>in</i> 4.750	OD <i>in</i> 4.750	4.615
Pipe weight	<i>lb/ft</i> 17.50	Thickness <i>in</i> 0.337	0.270
Upset Type	IEU	X-Sec Area <i>in²</i> 4.672	3.681
Tube grade	S135	Section Modulus <i>in³</i> 4.817	3.780
Range	3	Polar Section Modulus <i>in³</i> 9.633	7.559
Tube Yield	<i>ksi</i> 135	Tensile Yield <i>lbs</i> 631,000	497,000
ID	<i>in</i> 4.076	Torsional Yield <i>ft-lbs</i> 62,500	49,100
		80% Torsional Yield <i>ft-lbs</i> 50,000	39,280
		Internal Pressure Yield <i>psi</i> 16,800	15,300
		Collapse Yield <i>psi</i> 15,000	9,500
		D/t 14.09	17.12
		Connection/Tube Torsional Ratio 0.679	

Tool Joint

		NEW
Connection Type	480 DUO	OD <i>in</i> 5.625
Material Yield Strength	<i>ksi</i> 130	Tensile Yield Strength <i>lbs</i> 824,400
OD	<i>in</i> 5.625	Torsional Yield Strength <i>ft-lbs</i> 42,400
ID	<i>in</i> 3.750	Recommended Makeup Torque <i>ft-lbs</i> 25,500
Pin Shoulder Angle	<i>deg</i> 18	Maximum Makeup Torque <i>ft-lbs</i> 27,600
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> 43.50	
Adjusted Weight	<i>lbs/ft</i> 17.83	
Closed End Displacement	<i>gal/ft</i> 0.942	<i>bbl/ft</i> 0.0224
Open End Displacement	<i>gal/ft</i> 0.272	<i>bbl/ft</i> 0.0065
Fluid Capacity	<i>gal/ft</i> 0.669	<i>bbl/ft</i> 0.0159
Drift Size	<i>in</i> 3.625	

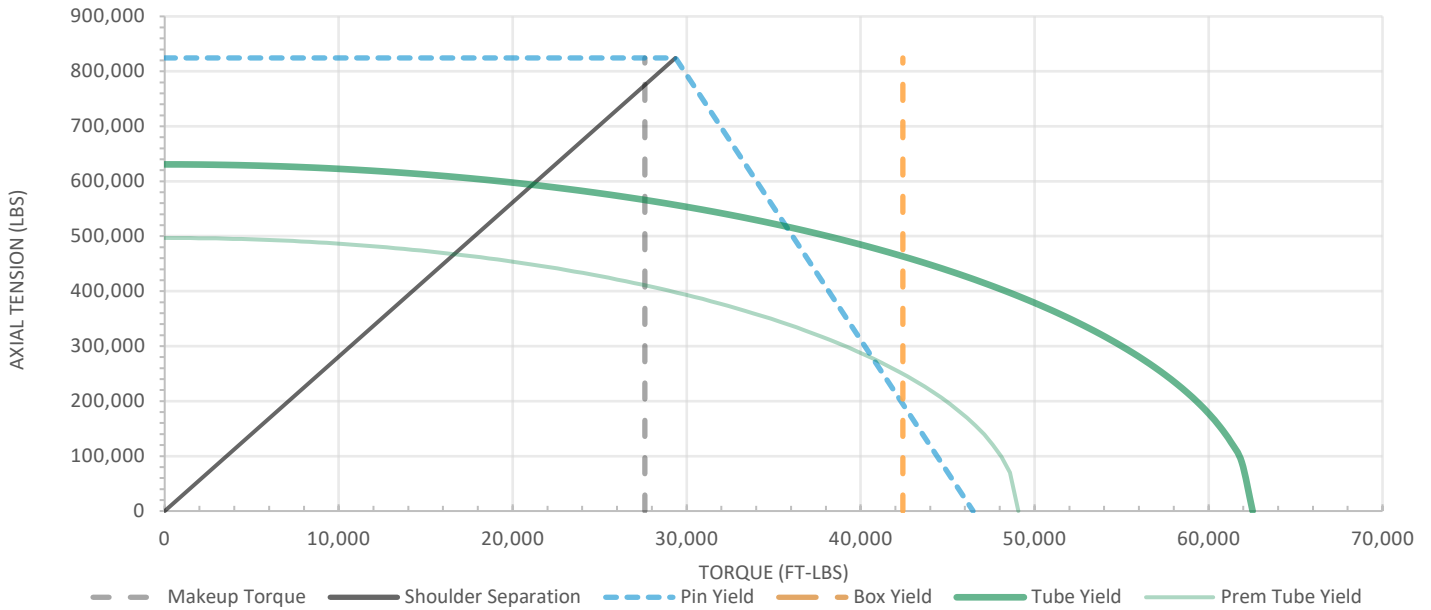
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Calculations are based on uniform wall thickness and outside diameter – no safety factor has been applied. The information provided for inspection classes is based on uniform wear and is not intended to recommend or confirm operational limits of any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

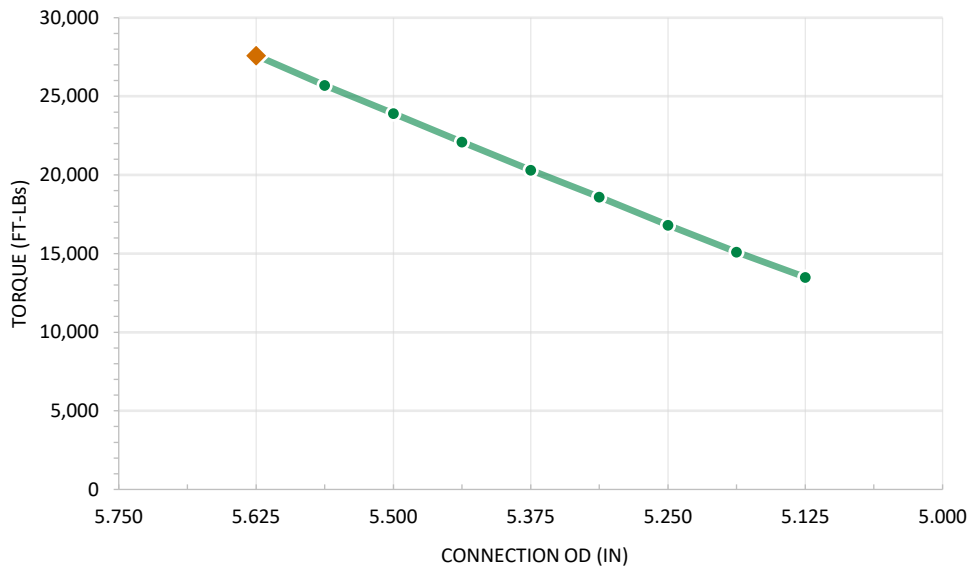
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Makeup Torque Then Tension Chart



Connection Wear Chart



CONNECTION OD (in)	MAXIMUM MAKEUP TORQUE (ft-lbs)
5.625	27,600
5.563	25,700
5.500	23,900
5.438	22,100
5.375	20,300
5.313	18,600
5.250	16,800
5.188	15,100
5.125	13,500
MIN REC OD (in)	27,600
5.625	27,600

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