

Pipe						CDN		
						NEW	API PREMIUM	
Pipe size	<i>in</i>	5.000	<i>mm</i>	127.0	OD	<i>mm</i>	127.0	123.3
Pipe weight	<i>lb/ft</i>	19.50	<i>kg/m</i>	29.02	Thickness	<i>mm</i>	9.2	7.4
Upset Type		IEU			X-Sec Area	<i>cm²</i>	34.0	26.8
Tube grade		S135			Section Modulus	<i>cm³</i>	93.5	73.4
Range		2			Polar Section Modulus	<i>cm³</i>	187.1	146.7
Tube Yield	<i>MPa</i>	931			Tensile Yield	<i>kdaN</i>	317	250
ID	<i>mm</i>	108.6			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>MPa</i>	117.9	107.6
					Collapse Yield	<i>MPa</i>	108.2	68.9
					D/t		13.81	16.77
					Connection/Tube Torsional Ratio		1.126	

Tool Joint						CDN		
						NEW		
Connection Type		530 DUO			OD	<i>mm</i>	165.1	
Material Yield Strength	<i>MPa</i>	896			Tensile Yield Strength	<i>kdaN</i>	572	
OD	<i>mm</i>	165.1			Torsional Yield Strength	<i>ft-lbs</i>	83,400	
ID	<i>mm</i>	95.3			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>mm</i>	356						
Box Tool Joint Length	<i>mm</i>	356						

Drill Pipe Assembly						CDN		
					Shoulder-Shoulder Length	<i>m</i>	9.60	
					Adjusted Weight	<i>kg/m</i>	34.26	
					Closed End Displacement	<i>L/m</i>	13.38	<i>m³/m</i> 0.01338
					Open End Displacement	<i>L/m</i>	4.37	<i>m³/m</i> 0.00437
					Fluid Capacity	<i>L/m</i>	9.01	<i>m³/m</i> 0.00901
					Drift Size	<i>mm</i>	92.1	

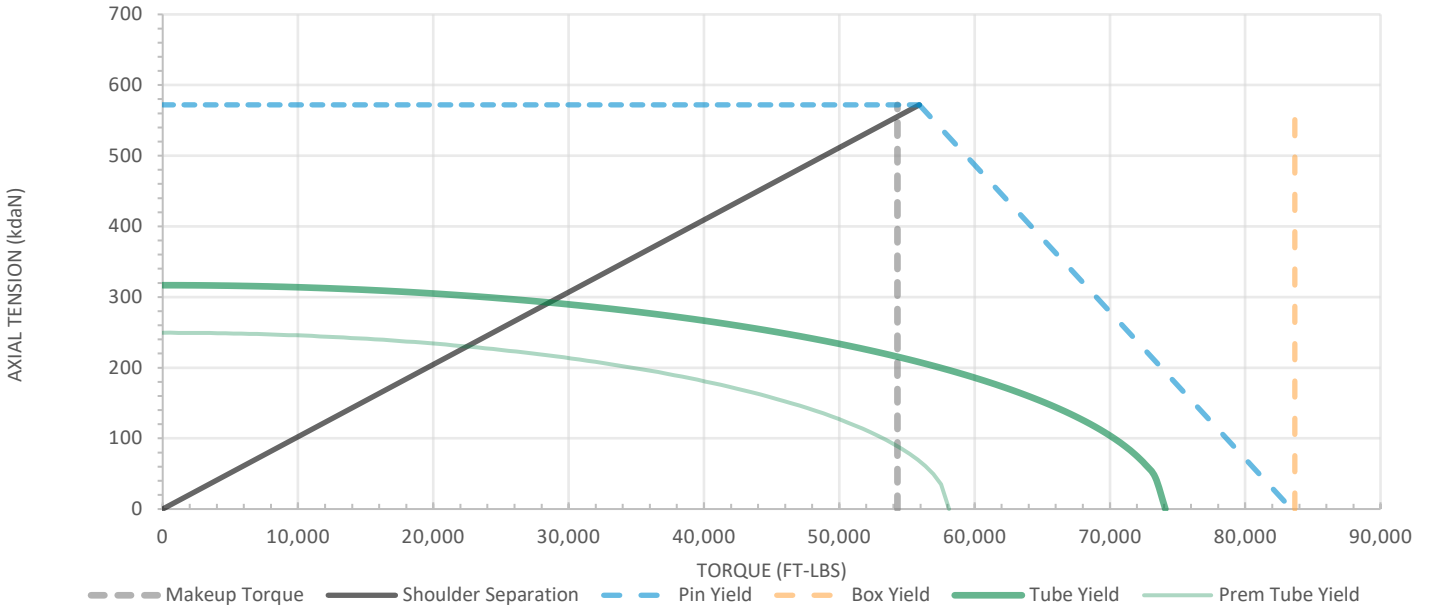
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Calculations are based on uniform wall thickness and outside diameter – no safety factor has been applied. The information provided for inspection classes is based on uniform wear and is not intended to recommend or confirm operational limits of any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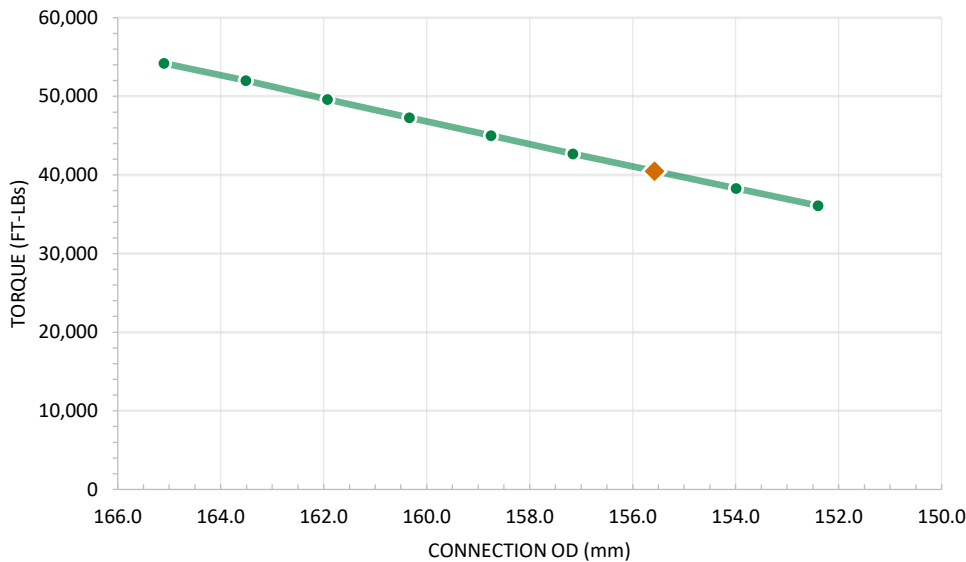
Makeup Torque Then Tension Chart

CDN



Connection Wear Chart

CDN



CONNECTION OD (mm)	MAXIMUM MAKEUP TORQUE (ft-lbs)
165.1	54,200
163.5	52,000
161.9	49,600
160.3	47,300
158.8	45,000
157.2	42,700
155.6	40,500
154.0	38,300
152.4	36,100
MIN REC OD (mm)	155.6
	40,500

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