

Pipe						CDN		
						NEW	API PREMIUM	
Pipe size	<i>in</i>	2.375	<i>mm</i>	60.3	OD	<i>mm</i>	60.3	57.5
Pipe weight	<i>lb/ft</i>	6.65	<i>kg/m</i>	9.90	Thickness	<i>mm</i>	7.1	5.7
Upset Type		EU			X-Sec Area	<i>cm²</i>	11.9	9.3
Tube grade		S135			Section Modulus	<i>cm³</i>	14.2	10.9
Range		2			Polar Section Modulus	<i>cm³</i>	28.4	21.9
Tube Yield	<i>MPa</i>	931			Tensile Yield	<i>kdaN</i>	111	86
ID	<i>mm</i>	46.1			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>MPa</i>	192.4	175.8
					Collapse Yield	<i>MPa</i>	193.7	166.2
					D/t		8.48	10.10
					Connection/Tube Torsional Ratio		0.577	

Tool Joint						CDN		
						NEW		
Connection Type		CTP 23			OD	<i>mm</i>	73.0	
Material Yield Strength	<i>MPa</i>	896			Tensile Yield Strength	<i>kdaN</i>	103	
OD	<i>mm</i>	73.0			Torsional Yield Strength	<i>ft-lbs</i>	6,500	
ID	<i>mm</i>	38.1			Recommended Makeup Torque	<i>ft-lbs</i>	3,900	
Pin Shoulder Angle	<i>deg</i>	18						
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>		10.51	
				Closed End Displacement	<i>L/m</i>	2.96	<i>m³/m</i>	0.00296
				Open End Displacement	<i>L/m</i>	1.34	<i>m³/m</i>	0.00134
				Fluid Capacity	<i>L/m</i>	1.62	<i>m³/m</i>	0.00162
				Drift Size	<i>mm</i>	34.9		

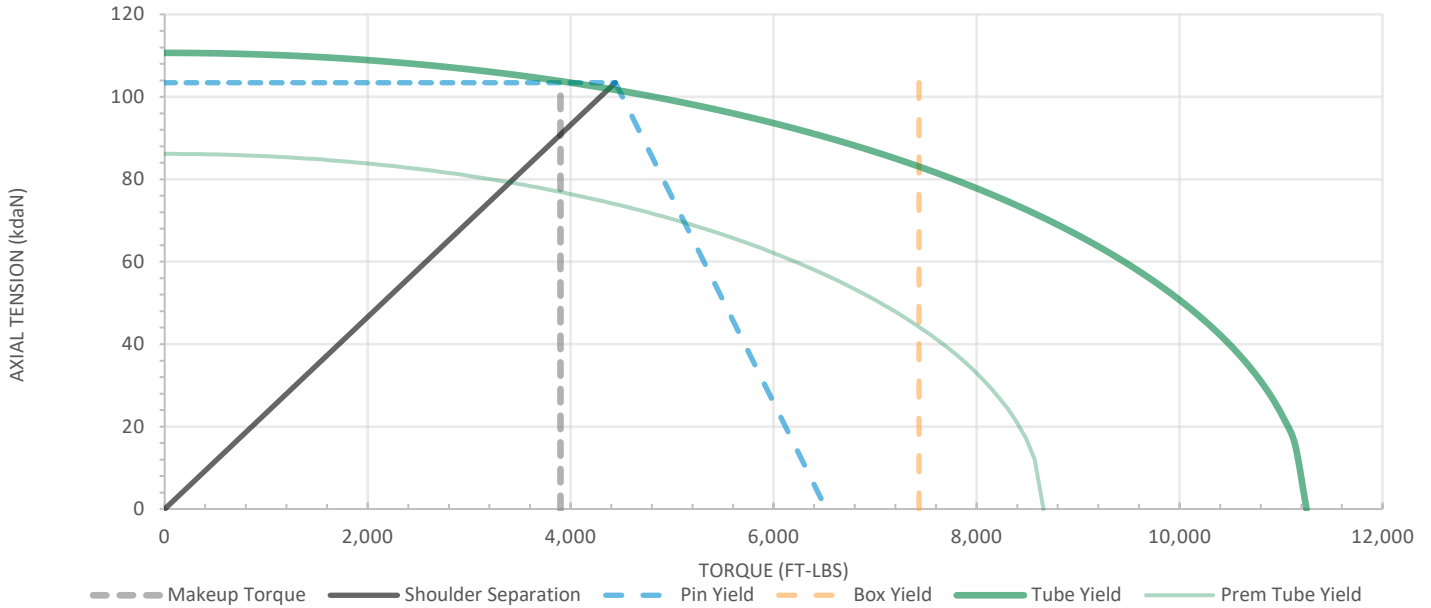
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Calculations are based on uniform wall thickness and outside diameter – no safety factor has been applied. The information provided for inspection classes is based on uniform wear and is not intended to recommend or confirm operational limits of any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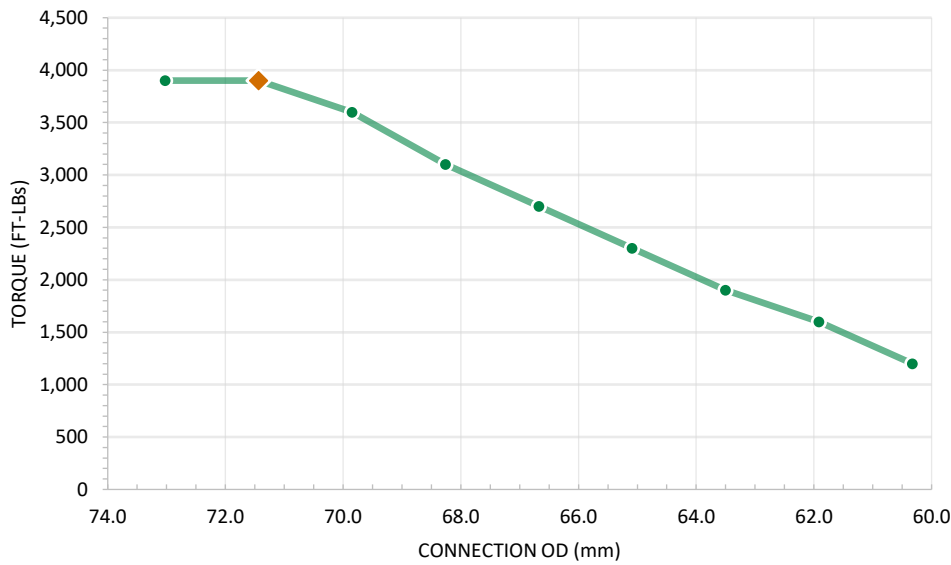
Makeup Torque Then Tension Chart

CDN



Connection Wear Chart

CDN



CONNECTION OD (mm)	MAKEUP TORQUE (ft-lbs)
73.0	3,900
71.4	3,900
69.9	3,600
68.3	3,100
66.7	2,700
65.1	2,300
63.5	1,900
61.9	1,600
60.3	1,200

MIN REC OD (mm)	MAKEUP TORQUE (ft-lbs)
71.4	3,900

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