

Pipe						CDN		
						NEW	API PREMIUM	
Pipe size	in	5.500	mm	139.7	OD	mm	139.7	136.0
Pipe weight	lb/ft	21.90	kg/m	32.59	Thickness	mm	9.2	7.3
Upset Type		IEU			X-Sec Area	cm ²	37.6	29.7
Tube grade		S135			Section Modulus	cm ³	115.2	90.6
Range		2			Polar Section Modulus	cm ³	230.4	181.1
Tube Yield	MPa	931			Tensile Yield	kdaN	350	276
ID	mm	121.4			Torsional Yield	ft-lbs	91,300	71,800
					80% Torsional Yield	ft-lbs	73,000	57,440
					Internal Pressure Yield	MPa	106.9	97.9
					Collapse Yield	MPa	87.6	51.7
					D/t		15.24	18.54
					Connection/Tube Torsional Ratio		1.005	

Tool Joint						CDN		
						NEW		
Connection Type		550 DUO			OD	mm	168.3	
Material Yield Strength	MPa	896			Tensile Yield Strength	kdaN	649	
OD	mm	168.3			Torsional Yield Strength	ft-lbs	91,700	
ID	mm	95.3			Recommended Makeup Torque	ft-lbs	55,000	
Pin Shoulder Angle	deg	18			Maximum Makeup Torque	ft-lbs	59,600	
Pin Tool Joint Length	mm	356						
Box Tool Joint Length	mm	356						

Drill Pipe Assembly						CDN		
					Shoulder-Shoulder Length	m	9.60	
					Adjusted Weight	kg/m	37.94	
					Closed End Displacement	L/m	15.89	m ³ /m 0.01589
					Open End Displacement	L/m	4.84	m ³ /m 0.00484
					Fluid Capacity	L/m	11.06	m ³ /m 0.01106
					Drift Size	mm	92.1	

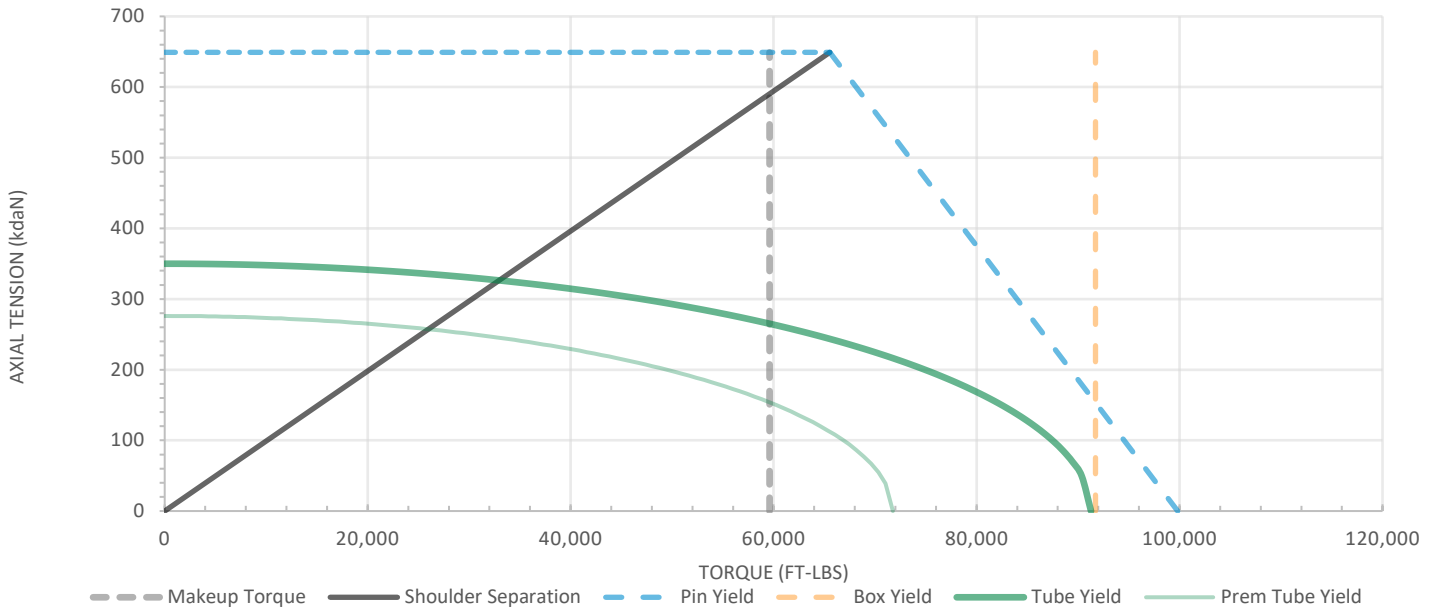
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Calculations are based on uniform wall thickness and outside diameter – no safety factor has been applied. The information provided for inspection classes is based on uniform wear and is not intended to recommend or confirm operational limits of any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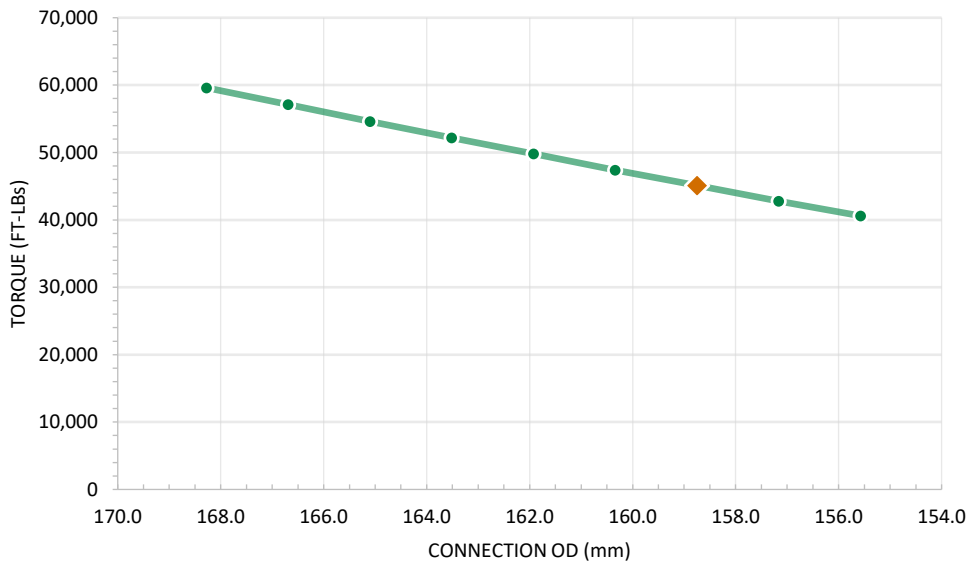
Makeup Torque Then Tension Chart

CDN



Connection Wear Chart

CDN



CONNECTION OD (mm)	MAXIMUM MAKEUP TORQUE (ft-lbs)
168.3	59,600
166.7	57,100
165.1	54,600
163.5	52,200
161.9	49,800
160.3	47,400
158.8	45,100
157.2	42,800
155.6	40,600
MIN REC OD (mm)	
158.8	45,100

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