

Pipe

CDN

						NEW	API PREMIUM
Pipe size	<i>in</i>	4.500	<i>mm</i>	114.3	OD <i>mm</i>	114.3	110.9
Pipe weight	<i>lb/ft</i>	16.60	<i>kg/m</i>	24.70	Thickness <i>mm</i>	8.6	6.8
Upset Type		IEU			X-Sec Area <i>cm²</i>	28.4	22.4
Tube grade		S135			Section Modulus <i>cm³</i>	70.0	54.8
Range		2			Polar Section Modulus <i>cm³</i>	140.0	109.7
Tube Yield	<i>MPa</i>	931			Tensile Yield <i>kdaN</i>	265	208
ID	<i>mm</i>	97.2			Torsional Yield <i>ft-lbs</i>	55,500	43,500
					80% Torsional Yield <i>ft-lbs</i>	44,400	34,800
					Internal Pressure Yield <i>MPa</i>	122.0	111.7
					Collapse Yield <i>MPa</i>	115.8	75.8
					D/t	13.35	16.19
					Connection/Tube Torsional Ratio	0.638	

Tool Joint

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					NEW	REC MIN OD
Connection Type	DS40		OD	mm	133.4	123.8
Material Yield Strength	MPa	896	Tensile Yield Strength	kdaN	374	374
	OD	mm	133.4	Torsional Yield Strength	ft-lbs	35,400
	ID	mm	68.3	Recommended Makeup Torque	ft-lbs	21,200
Pin Shoulder Angle	deg	18				
Pin Tool Joint Length	mm	356				
Box Tool Joint Length	mm	356				

Drill Pipe Assembly

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Shoulder-Shoulder Length	m	9.60
Adjusted Weight	kg/m	27.99
Closed End Displacement	L/m	10.57
Open End Displacement	L/m	3.57
Fluid Capacity	L/m	7.00
Drift Size	mm	65.1

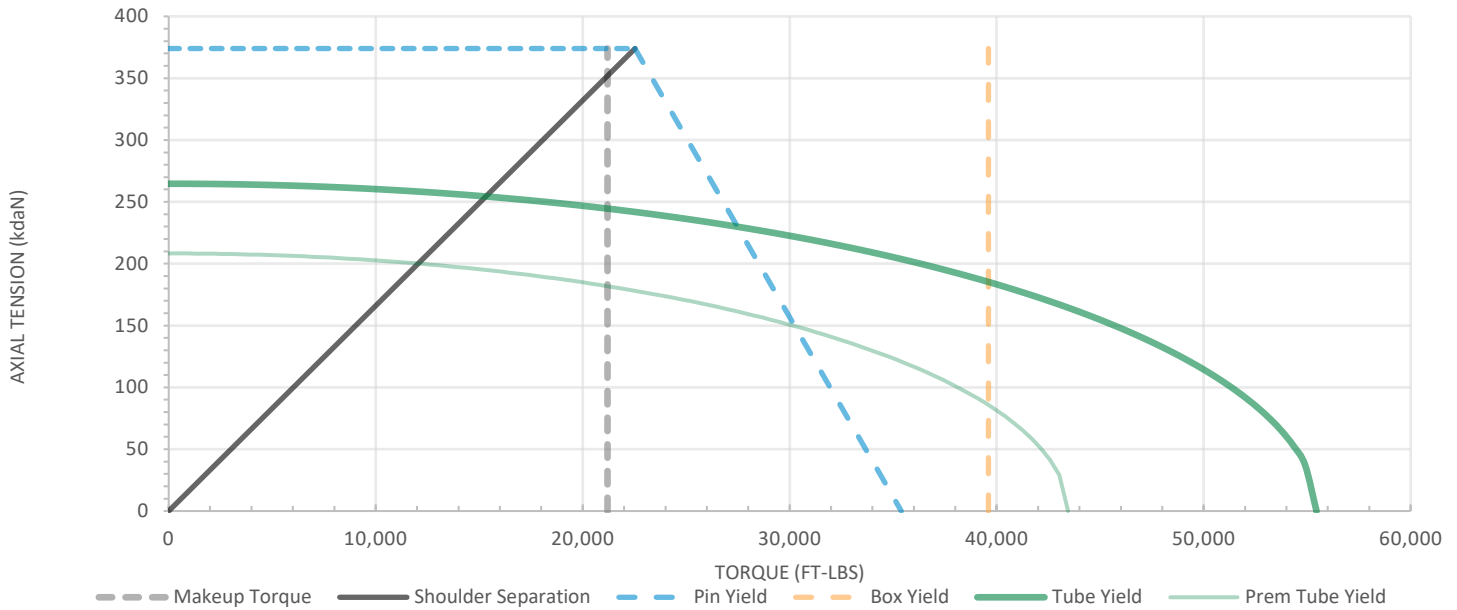
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Calculations are based on uniform wall thickness and outside diameter – no safety factor has been applied. The information provided for inspection classes is based on uniform wear and is not intended to recommend or confirm operational limits of any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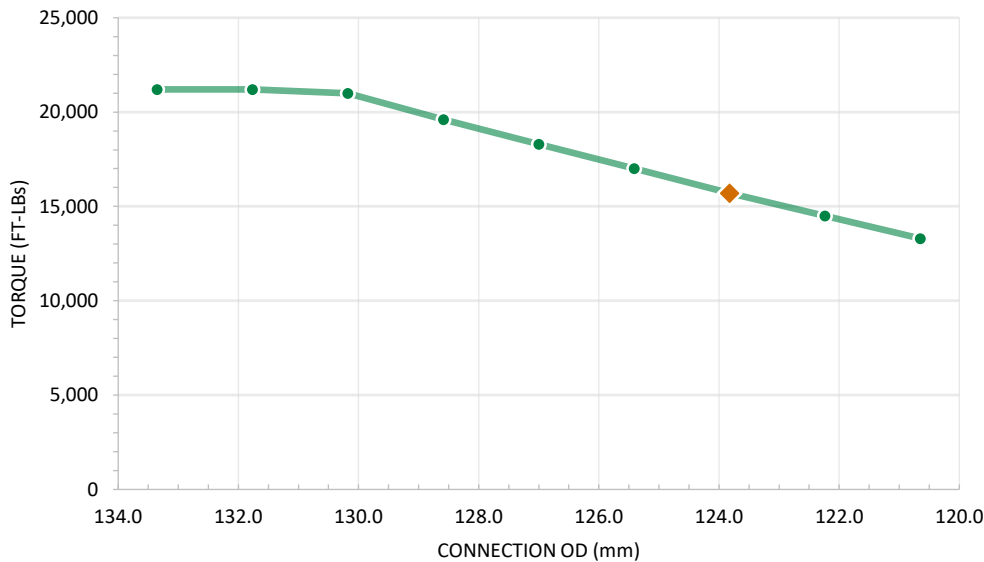
Makeup Torque Then Tension Chart

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Connection Wear Chart

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CONNECTION OD (mm)	MAKEUP TORQUE (ft-lbs)
133.4	21,200
131.8	21,200
130.2	21,000
128.6	19,600
127.0	18,300
125.4	17,000
123.8	15,700
122.2	14,500
120.7	13,300
MIN REC OD (mm)	
123.8	15,700

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