

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	REC MIN OD	
Connection Type		CTP 23		OD	mm	73.0	71.4
Material Yield Strength	MPa	896	Tensile Yield Strength	kdaN		103	103
	OD	mm	73.0	Torsional Yield Strength	ft-lbs	6,500	6,500
	ID	mm	38.1	Recommended Makeup Torque	ft-lbs	3,900	3,900
Pin Shoulder Angle	deg	35	Enhanced Makeup Torque	ft-lbs		4,600	4,500
Pin Tool Joint Length	mm	279					
Box Tool Joint Length	mm	330					

Drill Pipe Assembly

CDN

Shoulder-Shoulder Length	m	9.60
Adjusted Weight	kg/m	10.35
Closed End Displacement	L/m	2.94
Open End Displacement	L/m	1.32
Fluid Capacity	L/m	1.62
Drift Size	mm	34.9

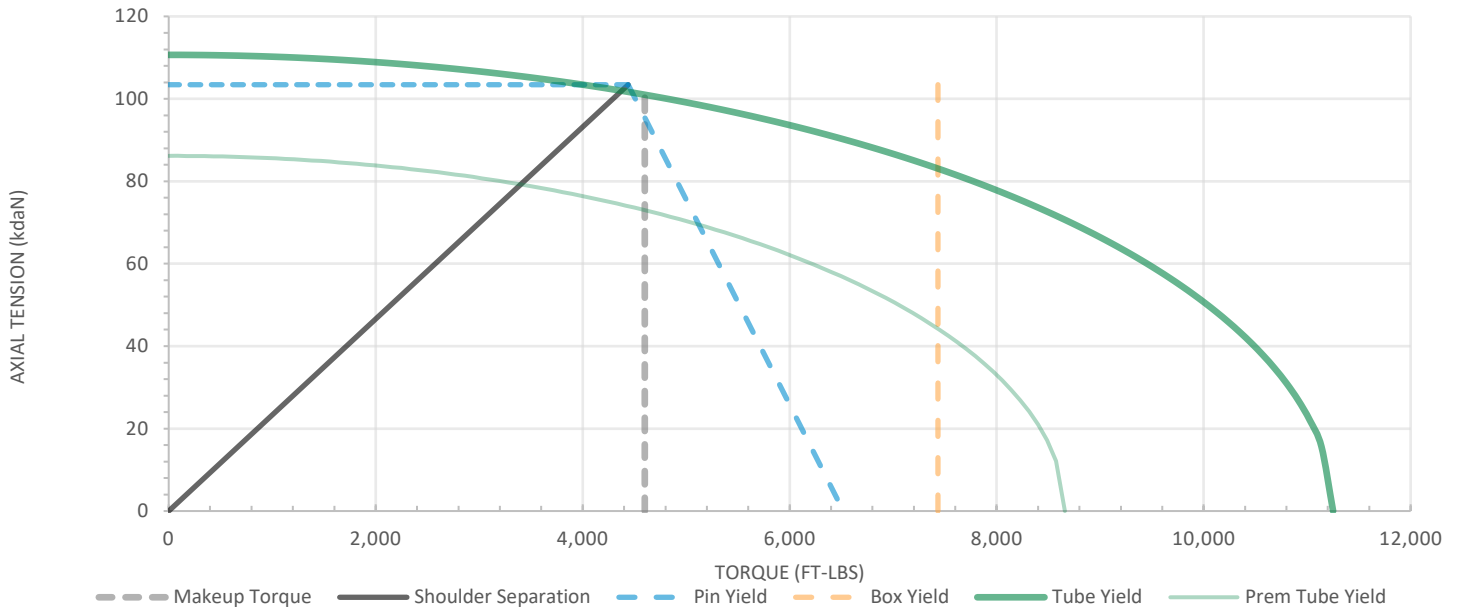
The information contained in this data sheet and other attached documentation is for reference use only. It is not intended to imply any explicit recommendation regarding processes, procedures, or performance of the end product. It is the responsibility of the end user to verify and determine the appropriate use of the technical information - no expressed or implied warranty by Complete Group is intended.

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.

The information in this publication is subject to change without notice, please contact Complete Group for the latest publication

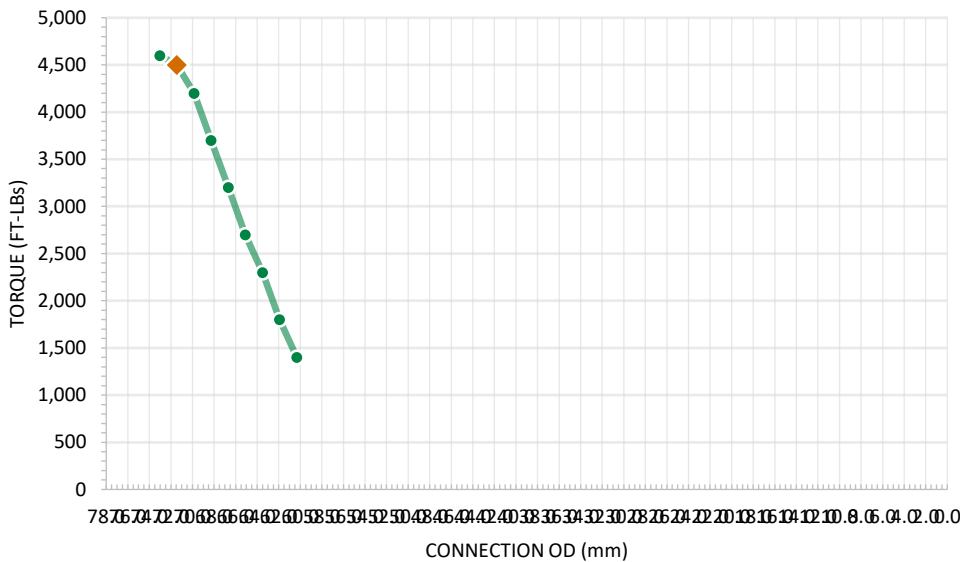
Makeup Torque Then Tension Chart

CDN



Connection Wear Chart

CDN



CONNECTION OD (mm)	ENHANCED MAKEUP TORQUE (ft-lbs)
73.0	4,600
71.4	4,500
69.9	4,200
68.3	3,700
66.7	3,200
65.1	2,700
63.5	2,300
61.9	1,800
60.3	1,400
MIN REC OD (mm)	
71.4	4,500

The information contained in this data sheet and other attached documentation is for reference use only. It is not intended to imply any explicit recommendation regarding processes, procedures, or performance of the end product. It is the responsibility of the end user to verify and determine the appropriate use of the technical information - no expressed or implied warranty by Complete Group is intended.

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.

The information in this publication is subject to change without notice, please contact Complete Group for the latest publication