

Pipe Size:	4.750 in	Grade:	S135	Range:	2
Pipe Weight:	17.50 lb/ft	Upset:	IEU	Connection:	480 DUO

Pipe

		NEW	API PREMIUM
Pipe size	<i>in</i> 4.750	OD <i>in</i> 4.750	4.615
Pipe weight	<i>lb/ft</i> 17.50	Thickness <i>in</i> 0.337	0.270
Upset Type	IEU	X-Sec Area <i>in²</i> 4.672	3.681
Tube grade	S135	Section Modulus <i>in³</i> 4.817	3.780
Range	2	Polar Section Modulus <i>in³</i> 9.633	7.559
Tube Yield	<i>ksi</i> 135	Tensile Yield <i>lbs</i> 631,000	497,000
ID	<i>in</i> 4.076	Torsional Yield <i>ft-lbs</i> 62,500	49,100
		80% Torsional Yield <i>ft-lbs</i> 50,000	39,280
		Internal Pressure Yield <i>psi</i> 16,800	15,300
		Collapse Yield <i>psi</i> 15,000	9,500
		D/t 14.09	17.12
		Connection/Tube Torsional Ratio 0.824	

Tool Joint

		NEW
Connection Type	480 DUO	OD <i>in</i> 5.750
Material Yield Strength	<i>ksi</i> 130	Tensile Yield Strength <i>lbs</i> 918,500
OD	<i>in</i> 5.750	Torsional Yield Strength <i>ft-lbs</i> 51,500
ID	<i>in</i> 3.625	Recommended Makeup Torque <i>ft-lbs</i> 30,900
Pin Shoulder Angle	<i>deg</i> 18	Maximum Makeup Torque <i>ft-lbs</i> 33,500
Pin Tool Joint Length	<i>in</i> 14.0	
Box Tool Joint Length	<i>in</i> 14.0	

Drill Pipe Assembly

Shoulder-Shoulder Length	<i>ft</i> 31.50	
Adjusted Weight	<i>lbs/ft</i> 19.17	
Closed End Displacement	<i>gal/ft</i> 0.955	<i>bbl/ft</i> 0.0227
Open End Displacement	<i>gal/ft</i> 0.293	<i>bbl/ft</i> 0.0070
Fluid Capacity	<i>gal/ft</i> 0.662	<i>bbl/ft</i> 0.0158
Drift Size	<i>in</i> 3.5	

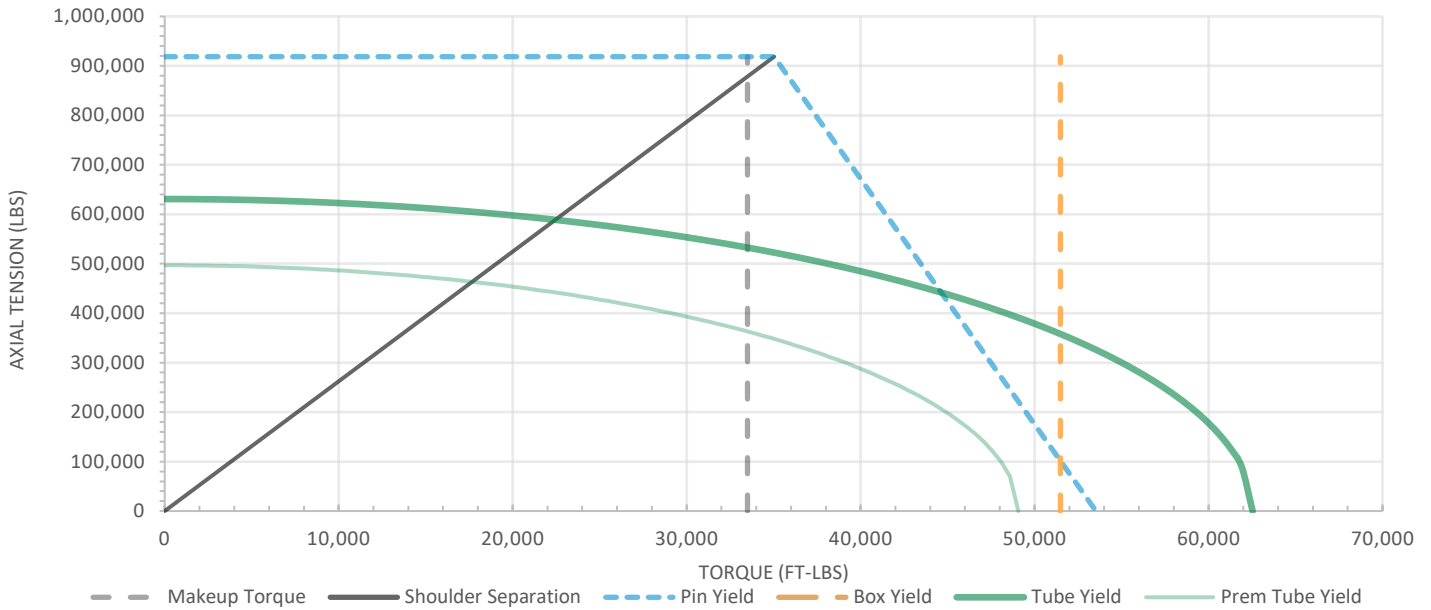
The information contained in this data sheet and other attached documentation is for reference use only. It is not intended to imply any explicit recommendation regarding processes, procedures, or performance of the end product. It is the responsibility of the end user to verify and determine the appropriate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

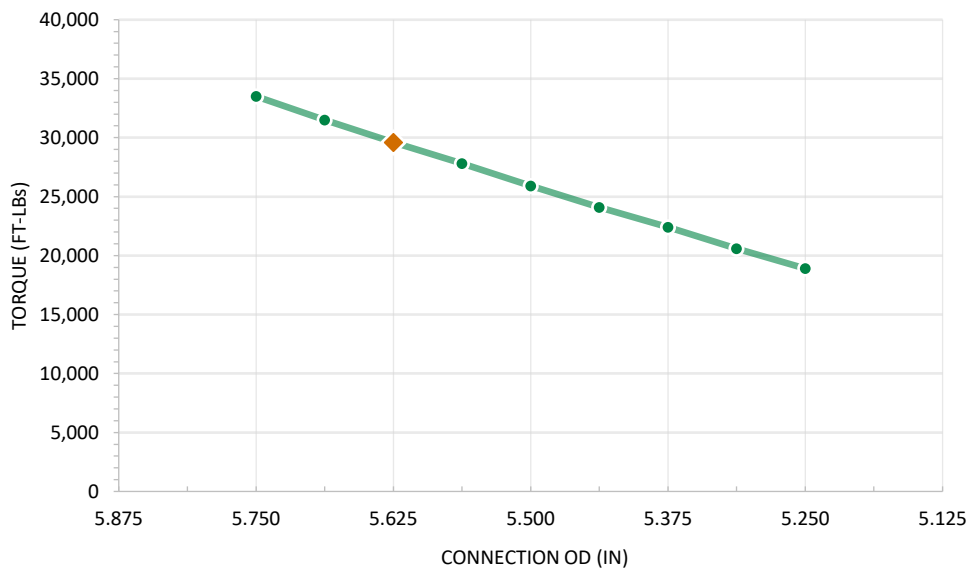
The information in this publication is subject to change without notice, please contact Complete Tubular Products for the latest publication

Pipe Size: 4.750 in Grade: S135 Range: 2
 Pipe Weight: 17.50 lb/ft Upset: IEU Connection: 480 DUO

Makeup Torque Then Tension Chart



Connection Wear Chart



CONNECTION OD (in)	MAXIMUM MAKEUP TORQUE (ft-lbs)
5.750	33,500
5.688	31,500
5.625	29,600
5.563	27,800
5.500	25,900
5.438	24,100
5.375	22,400
5.313	20,600
5.250	18,900
MIN REC OD (in)	29,600
5.625	29,600

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 Tubular Products 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 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.

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