

Pipe Size:	5.500 in	Grade:	S135	Range:	2
Pipe Weight:	21.90 lb/ft	Upset:	IEU	Connection:	550 DUO

### Pipe

		NEW	API PREMIUM
Pipe size	<i>in</i> 5.500	OD <i>in</i> <b>5.500</b>	5.356
Pipe weight	<i>lb/ft</i> 21.90	Thickness <i>in</i> <b>0.361</b>	0.289
Upset Type	IEU	X-Sec Area <i>in<sup>2</sup></i> <b>5.828</b>	4.597
Tube grade	S135	Section Modulus <i>in<sup>3</sup></i> <b>7.031</b>	5.527
Range	2	Polar Section Modulus <i>in<sup>3</sup></i> <b>14.062</b>	11.054
Tube Yield	<i>ksi</i> 135	Tensile Yield <i>lbs</i> <b>787,000</b>	621,000
ID	<i>in</i> 4.778	Torsional Yield <i>ft-lbs</i> <b>91,300</b>	71,800
		80% Torsional Yield <i>ft-lbs</i> <b>73,000</b>	57,440
		Internal Pressure Yield <i>psi</i> <b>15,500</b>	14,200
		Collapse Yield <i>psi</i> <b>12,700</b>	7,500
		D/t <b>15.24</b>	18.54
		Connection/Tube Torsional Ratio <b>1.005</b>	

### Tool Joint

		NEW
Connection Type	550 DUO	OD <i>in</i> <b>6.625</b>
Material Yield Strength	<i>ksi</i> 130	Tensile Yield Strength <i>lbs</i> <b>1,459,300</b>
OD	<i>in</i> 6.625	Torsional Yield Strength <i>ft-lbs</i> <b>91,700</b>
ID	<i>in</i> 3.750	Recommended Makeup Torque <i>ft-lbs</i> <b>55,000</b>
Pin Shoulder Angle	<i>deg</i> 18	Maximum Makeup Torque <i>ft-lbs</i> <b>59,600</b>
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> <b>31.50</b>	
Adjusted Weight	<i>lbs/ft</i> <b>25.49</b>	
Closed End Displacement	<i>gal/ft</i> <b>1.280</b>	<i>bbl/ft</i> 0.0305
Open End Displacement	<i>gal/ft</i> <b>0.390</b>	<i>bbl/ft</i> 0.0093
Fluid Capacity	<i>gal/ft</i> <b>0.890</b>	<i>bbl/ft</i> 0.0212
Drift Size	<i>in</i> <b>3.625</b>	

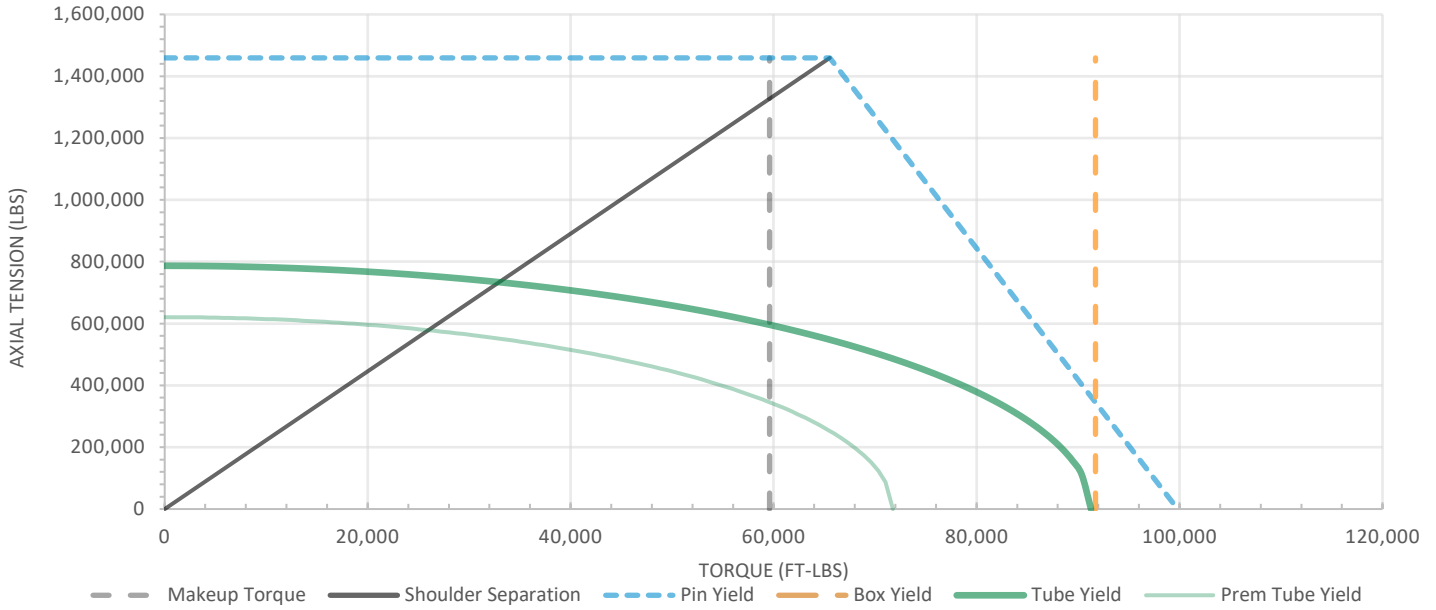
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Calculations are based on uniform wall thickness and outside diameter – no safety factor has been applied. The information provided for inspection classes is based on uniform wear and is not intended to recommend or confirm operational limits of any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

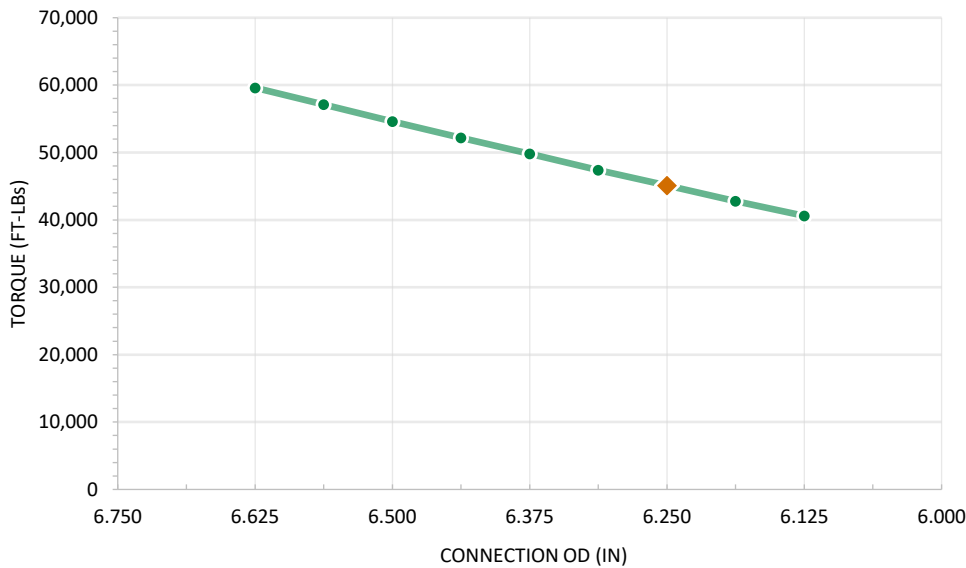
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### Makeup Torque Then Tension Chart



### Connection Wear Chart



CONNECTION OD (in)	MAXIMUM MAKEUP TORQUE (ft-lbs)
6.625	59,600
6.563	57,100
6.500	54,600
6.438	52,200
6.375	49,800
6.313	47,400
6.250	45,100
6.188	42,800
6.125	40,600
MIN REC OD (in)	
6.250	45,100

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