

Pipe

CDN

						NEW	API PREMIUM	
Pipe size	in	4.750	mm	120.7	OD	mm	120.7	117.2
Pipe weight	kg/m	26.04			Thickness	mm	8.6	6.8
Upset Type		IEU			X-Sec Area	cm ²	30.1	23.7
Tube grade		S135			Section Modulus	cm ³	78.9	61.9
Range		3			Polar Section Modulus	cm ³	157.9	123.9
Tube Yield	MPa	931			Tensile Yield	kdaN	281	221
ID	mm	103.5			Torsional Yield	ft-lbs	62,500	49,100
					80% Torsional Yield	ft-lbs	50,000	39,280
					Internal Pressure Yield	MPa	115.8	105.5
					Collapse Yield	MPa	103.4	65.5
					D/t		14.09	17.12
					Connection/Tube Torsional Ratio		0.679	

*See Elevator Capacity

Tool Joint

CDN

						NEW	REC MIN OD
Connection Type		480 DUO			OD	mm	142.9
Material Yield Strength	MPa	896			Tensile Yield Strength	kdaN	367
	OD	mm	142.88		Torsional Yield Strength	ft-lbs	42,400
	ID	mm	95.25		Recommended Makeup Torque	ft-lbs	25,500
Pin Shoulder Angle	deg	18			Maximum Makeup Torque	ft-lbs	27,600
Pin Tool Joint Length	mm	356					
Box Tool Joint Length	mm	356					

Drill Pipe Assembly

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Shoulder-Shoulder Length	m	13.716
Adjusted Weight	kg/m	26.44
Closed End Displacement	L/m	11.69
Open End Displacement	L/m	3.37
Fluid Capacity	L/m	8.32
Drift Size	mm	92.1

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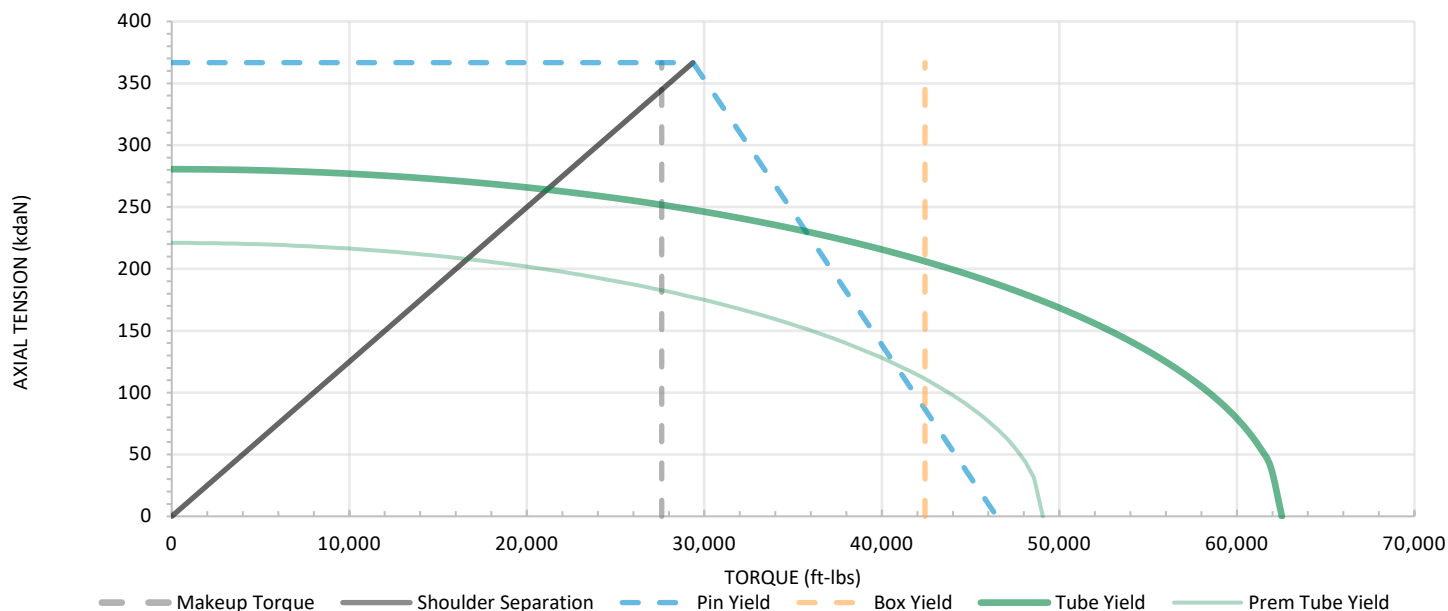
Calculations are based on uniform wall thickness and outside diameter – no safety factor has been applied. The information provided for inspection classes is based on uniform wear and is not intended to recommend or confirm operational limits of any used product. It is recommended that drilling torque 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 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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Pipe Size: 4.750 in (121mm) Grade: S135 Range: 3
Pipe Weight: 26.04 kg/m Upset: IEU Connection: 480 DUO

Makeup Torque Then Tension Chart

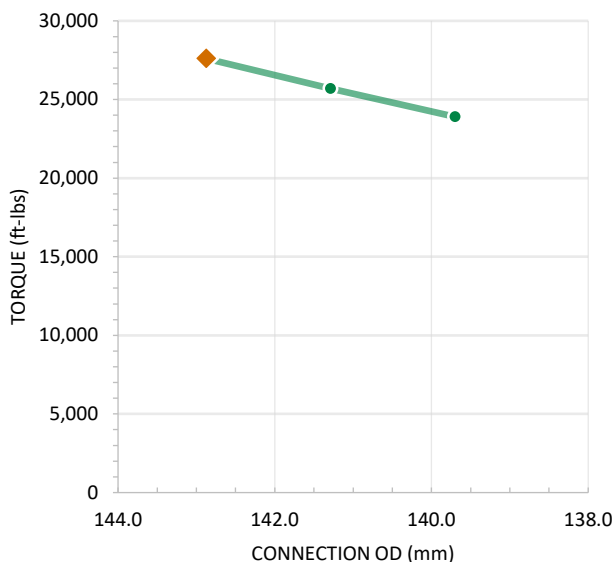
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Connection Wear Chart

Elevator Capacity

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CONNECTION OD (mm)	MAXIMUM MAKEUP TORQUE (ft-lbs)
142.9	27,600
141.3	25,700
139.7	23,900
MIN REC OD (mm)	
142.9	27,600

ELEVATOR BORE (mm)

130.2

BOX OD ELEVATOR CAPACITY

BOX OD (mm)	ELEVATOR CAPACITY NEW (kdaN)
142.9	244
141.3	212
139.7	181

Elevator capacity based on assumed elevator bore, with no wear factor, and a contact stress of 130,000 psi. It is provided as reference only and shall not be interpreted as an engineered safe lifting load.

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