COMPLETE GROUP

DRILL PIPE PERFORMANCE DATA SHEET

Pipe Size: 4.500 in (114mm) **Grade:** S135 **Range:** 3
Pipe Weight: 16.6lb/ft (24.70kg/m) **Upset:** IEU **Connection:** 450 DUO

Pipe

CDN

							NEW	API PREMIUM
Pipe size	*in*	4.500	*mm*	114.3	OD	*mm*	**114.3**	110.9
Pipe weight	*lb/ft*	16.60	*kg/m*	24.70	Thickness	*mm*	**8.6**	6.8
Upset Type		IEU			X-Sec Area	cm^2	**28.4**	22.4
Tube grade		S135			Section Modulus	cm^3	**70.0**	54.8
Range		3			Polar Section Modulus	cm^3	**140.0**	109.7
Tube Yield	*MPa*	931			Tensile Yield	*kdaN*	**265**	208
ID	*mm*	97.2			Torsional Yield	*ft-lbs*	**55,500**	43,500
					80% Torsional Yield	*ft-lbs*	**44,400**	34,800
					Internal Pressure Yield	*MPa*	**122.0**	111.7
					Collapse Yield	*MPa*	**115.8**	75.8
					D/t		**13.35**	16.19
					Connection/Tube Torsional Ratio		**0.977**	

Tool Joint

CDN

						NEW	REC MIN OD
Connection Type		450 DUO		OD	*mm*	**139.7**	133.4
Material Yield Strength	*MPa*	896		Tensile Yield Strength	*kdaN*	**439**	439
OD	*mm*	139.7		Torsional Yield Strength	*ft-lbs*	**54,200**	43,800
ID	*mm*	76.2		Recommended Makeup Torque	*ft-lbs*	**32,500**	26,300
Pin Shoulder Angle	*deg*	18		Maximum Makeup Torque	*ft-lbs*	**35,200**	28,500
Pin Tool Joint Length	*mm*	356					
Box Tool Joint Length	*mm*	356					

Drill Pipe Assembly

CDN

Shoulder-Shoulder Length	*m*	**13.72**
Adjusted Weight	*kg/m*	**26.36**
Closed End Displacement	*L/m*	**10.55**
Open End Displacement	*L/m*	**3.36**
Fluid Capacity	*L/m*	**7.19**
Drift Size	*mm*	**73.0**

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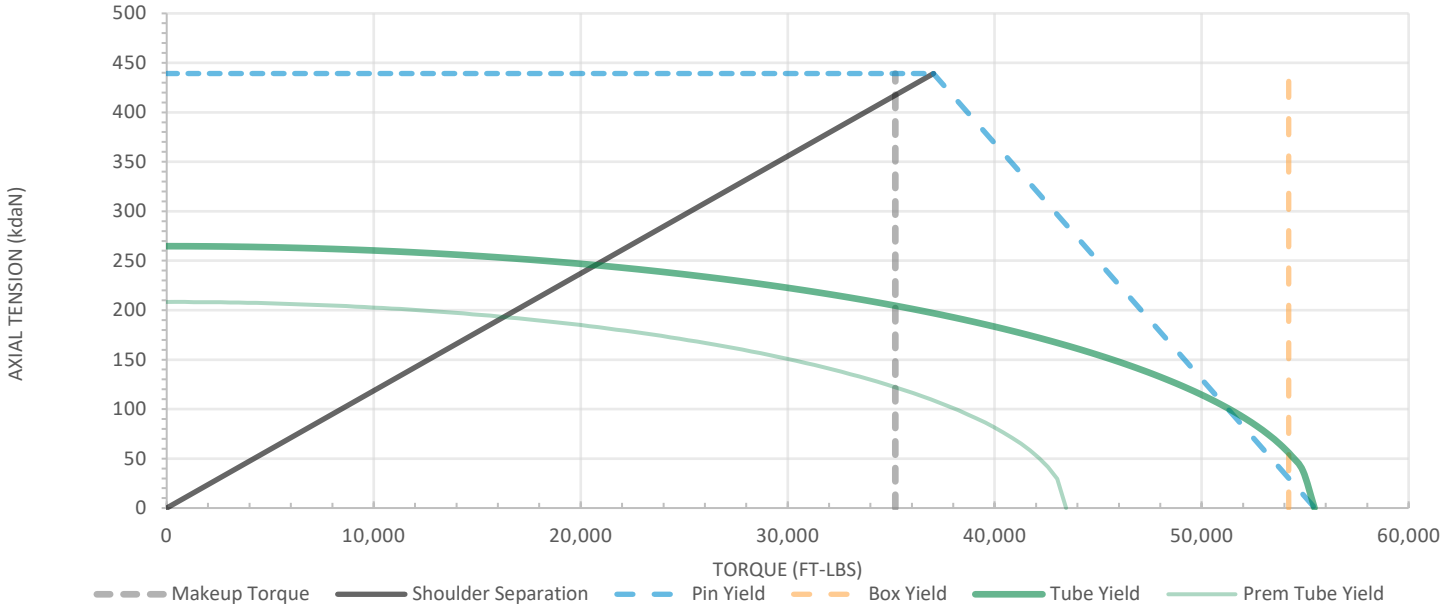
DRILL PIPE PERFORMANCE DATA SHEET

Pipe Size: ı (114mm)	0	Grade:	S135	Range:	3
Pipe Weight: 4.70kg/m)	0	Upset:	IEU	Connection:	450 DUO

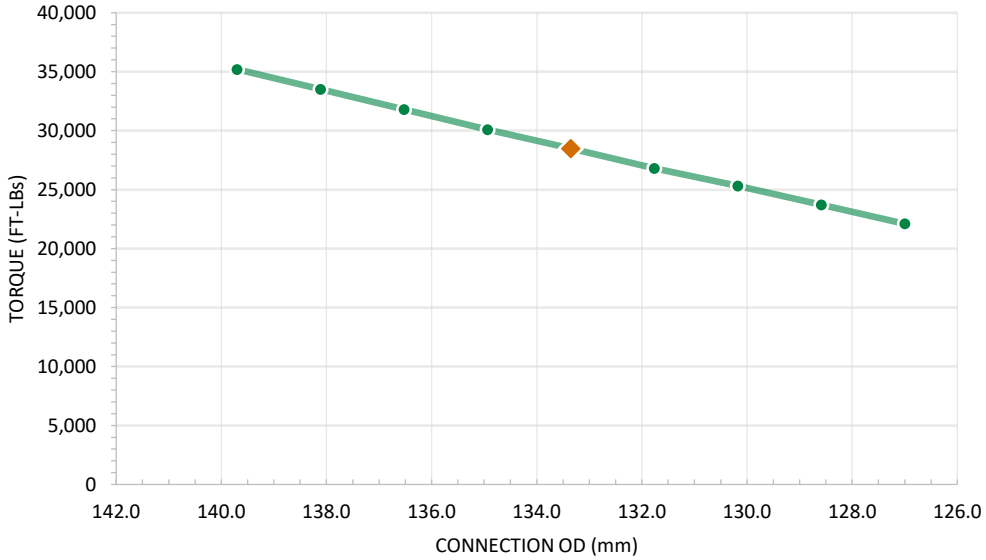
Makeup Torque Then Tension Chart

CDN



Connection Wear Chart

CDN



CONNECTION OD (mm)	MAXIMUM MAKEUP TORQUE (ft-lbs)
139.7	35,200
138.1	33,500
136.5	31,800
134.9	30,100
133.4	28,500
131.8	26,800
130.2	25,300
128.6	23,700
127.0	22,100
MIN REC OD (mm)	
133.4	28,500

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