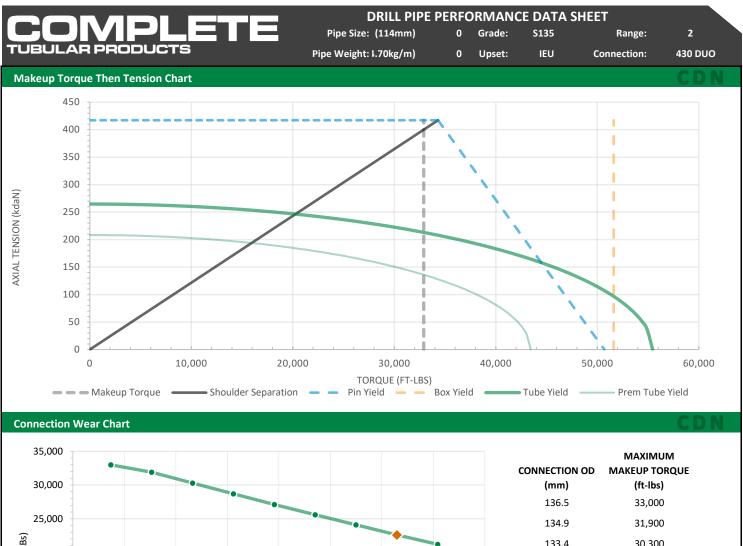
JUIVIF	JIVIP <u>LEIE</u>				Pipe Size: 4.500 in (114mm) Grade:				Range:	2
JBULAR PROD	BULAR PRODUCTS			Pipe Weight: 16.6lb/ft (24.70kg/m)			Upset:	IEU	Connection:	430 DUO
pe										CDN
							NEW		API PREMIUM	
Pipe size	in	4.500	тт	114.3	OD	mm	114.3		110.9	
Pipe weight	lb/ft	16.60	kg/m	24.70	Thickness	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		2		Polar	Section Modulus	cm ³	140.0		109.7	
Tube Yield	МРа	931			Tensile Yield	kdaN	265		208	
ID	тт	97.2			Torsional Yield	ft-lbs	55 <i>,</i> 500		43,500	
				809	% Torsional Yield	ft-lbs	44,400		34,800	
				Intern	al Pressure Yield	МРа	122.0		111.7	
					Collapse Yield	МРа	115.8		75.8	
					D/t		13.35		16.19	
			Connecti	on/Tub	e Torsional Ratio		0.914			
ool Joint										CDN
							NEW			
Connection Type		430 DUO			OD	mm	136.5			
aterial Yield Strength	МРа	896		Tensi	le Yield Strength	kdaN	417			
OD	mm	136.5		Torsion	al Yield Strength	ft-lbs	50,700			
ID	mm	71.5	Recomr	nended	Makeup Torque	ft-lbs	30,400			
Pin Shoulder Angle	deg	18	Ma	aximum	Makeup Torque	ft-lbs	33,000			
Pin Tool Joint Length	mm	356								
Box Tool Joint Length	mm	356								

062
359
703
)3

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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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TORQUE (FT-LBs) 30,300 133.4 20,000 131.8 28,700 130.2 27,100 15,000 128.6 25,600 10,000 127.0 24,100 125.4 22,600 5,000 123.8 21,200 0 MIN REC OD (mm) 138.0 136.0 134.0 132.0 130.0 128.0 126.0 124.0 122.0 125.4 22,600 CONNECTION OD (mm)

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