COMPLETE

Pipe

DRILL PIPE PERFORMANCE DATA SHEET

Pipe Size: 4.500 in (114mm)	Grade:	S135	Range:	2
Pipe Weight: 16.6lb/ft (24.70kg/m)	Upset:	IEU	Connection:	400 DUO

							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		Se	ection Modulus	cm³	70.0	54.8	
Range		2		Polar Se	ection Modulus	cm³	140.0	109.7	
Tube Yield	МРа	931			Tensile Yield	kdaN	265	208	
ID	mm	97.2			Torsional Yield	N-m	75,200	59,000	
				80%	Torsional Yield	N-m	60,200	47,200	
				Internal	l Pressure Yield	МРа	122.0	111.7	
					Collapse Yield	МРа	115.8	75.8	
					D/t		13.35	16.19	
			Connec	tion/Tube	Torsional Ratio		0.876		
Tool Joint								METRI	
							NEW		
Connection Type		400 DUO			OD	mm	133.4		
Material Yield Strength	МРа	896		Tensile	Yield Strength	kdaN	409		
OD	mm	133.4		Torsional	l Yield Strength	N-m	65,900		
ID	mm	68.3	Recon	nmended N	/lakeup Torque	N-m	39,600		
Pin Shoulder Angle	deg	18	N	/laximum N	/lakeup Torque	N-m	42,800		
Pin Tool Joint Length	mm	356							
Box Tool Joint Length	mm	356							
Drill Pipe Assembly								METRI	C
			9	Shoulder-Sl	houlder Length	m	9.60		
				Ad	djusted Weight	kg/m	27.99		
				Closed End	d Displacement	L/m	10.57		
				Open End	d Displacement	L/m	3.57		
					Fluid Capacity	L/m	7.00		
					Drift Size	mm	65.1		

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.

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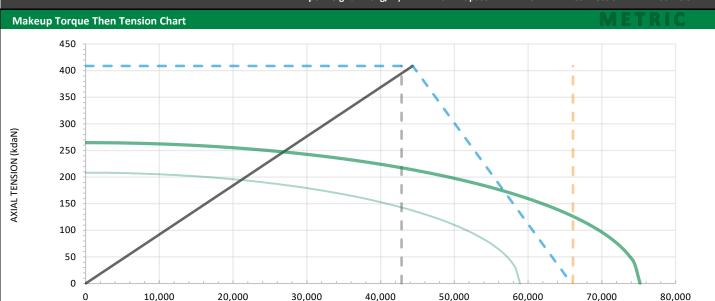
Pipe Size: (114mm) Grade: Pipe Weight: 1.70kg/m) Upset:

S135 IEU

Range: **Connection:**

Prem Tube Yield

2 400 DUO



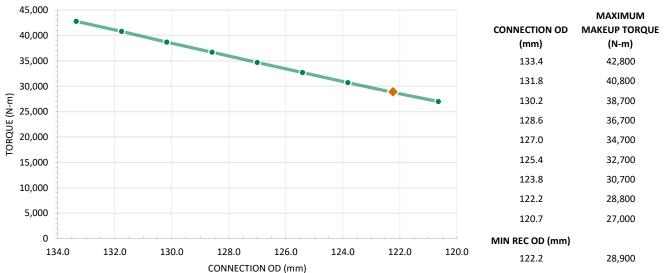
TORQUE (N-m)

Pin Yield

Box Yield •

Tube Yield

Connection Wear Chart



Shoulder Separation

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