		TE			DRILL PII	PE PERFO	ORMANCE	DATA S	HEET	
		-		Pip	e Size: 2.375 in (60	mm)	Grade:	S135	Range:	2
GRUUF				Pipe W	eight: 6.65lb/ft (9	.90kg/m)	Upset:	EU	Connection:	CTP 23
Pipe										CDI
							NEW	Α	PI PREMIUM	
Pipe size	in	2.375	mm	60.3	OD	mm	60.3		57.5	
Pipe weight	lb/ft	6.65	kg/m	9.90	Thickness	mm	7.1		5.7	
Upset Type		EU			X-Sec Area	cm ²	11.9		9.3	
Tube grade		S135		Sec	tion Modulus	cm³	14.2		10.9	
Range		2		Polar Sec	tion Modulus	cm³	28.4		21.9	
Tube Yield	МРа	931			Tensile Yield	kdaN	111		86	
ID	mm	46.1		Т	orsional Yield	ft-lbs	11,300		8,700	
				80% T	orsional Yield	ft-lbs	9,000		6,960	
				Internal I	Pressure Yield	МРа	192.4		175.8	
					Collapse Yield	МРа	193.7		166.2	
					D/t		8.48		10.10	
			Connec	tion/Tube T	orsional Ratio		0.577			
			00	,						
				,						
Fool Joint										CDI
Tool Joint							NEW	F	REC MIN OD	CDI
Tool Joint Connection Type		CTP 23			OD	mm	NEW 73.0	F	REC MIN OD 71.4	CDI
Connection Type	МРа	CTP 23 896			OD Yield Strength	mm kdaN		F		CDF
Connection Type	MPa mm			Tensile \		kdaN	73.0	F	71.4	CDI
Connection Type Material Yield Strength		896		Tensile \	Yield Strength	kdaN ft-lbs	73.0 103	F	71.4 103	CDF
Connection Type Material Yield Strength OD	mm	896 73.0	Recom	Tensile \ Torsional \ nmended Ma	Yield Strength Yield Strength	kdaN ft-lbs ft-lbs	73.0 103 6,500	F	71.4 103 6,500	CDF
Connection Type Material Yield Strength OD ID	mm mm	896 73.0 38.1	Recom	Tensile \ Torsional \ nmended Ma	Yield Strength Yield Strength akeup Torque	kdaN ft-lbs ft-lbs	73.0 103 6,500 3,900	F	71.4 103 6,500 3,900	CDF
Connection Type Material Yield Strength OD ID Pin Shoulder Angle	mm mm deg	896 73.0 38.1 35	Recom	Tensile \ Torsional \ nmended Ma	Yield Strength Yield Strength akeup Torque	kdaN ft-lbs ft-lbs	73.0 103 6,500 3,900	F	71.4 103 6,500 3,900	CDF
Material Yield Strength OD ID Pin Shoulder Angle Pin Tool Joint Length	mm mm deg mm	896 73.0 38.1 35 279	Recom	Tensile \ Torsional \ nmended Ma	Yield Strength Yield Strength akeup Torque	kdaN ft-lbs ft-lbs	73.0 103 6,500 3,900	F	71.4 103 6,500 3,900	CDF
Connection Type Material Yield Strength OD ID Pin Shoulder Angle Pin Tool Joint Length	mm mm deg mm	896 73.0 38.1 35 279	Recom	Tensile \ Torsional \ nmended Ma	Yield Strength Yield Strength akeup Torque	kdaN ft-lbs ft-lbs	73.0 103 6,500 3,900	F	71.4 103 6,500 3,900	CDI
Connection Type Material Yield Strength OD ID Pin Shoulder Angle Pin Tool Joint Length Box Tool Joint Length	mm mm deg mm	896 73.0 38.1 35 279	Recom E	Tensile \ Torsional \ nmended Ma nhanced Ma	Yield Strength Yield Strength akeup Torque	kdaN ft-lbs ft-lbs	73.0 103 6,500 3,900	F	71.4 103 6,500 3,900	CDI
Connection Type Material Yield Strength OD ID Pin Shoulder Angle Pin Tool Joint Length Box Tool Joint Length	mm mm deg mm	896 73.0 38.1 35 279	Recom E	Tensile \ Torsional \ nmended Ma nhanced Ma	Yield Strength Yield Strength akeup Torque akeup Torque	kdaN ft-lbs ft-lbs ft-lbs	73.0 103 6,500 3,900 4,600	F	71.4 103 6,500 3,900	CDI
Connection Type Material Yield Strength OD ID Pin Shoulder Angle Pin Tool Joint Length Box Tool Joint Length	mm mm deg mm	896 73.0 38.1 35 279	Recom E	Tensile \ Torsional \ nmended Ma inhanced Ma Shoulder-Sho	Yield Strength Yield Strength akeup Torque akeup Torque	kdaN ft-lbs ft-lbs ft-lbs m	73.0 103 6,500 3,900 4,600	F	71.4 103 6,500 3,900	CDI
Connection Type Material Yield Strength OD ID Pin Shoulder Angle Pin Tool Joint Length Box Tool Joint Length	mm mm deg mm	896 73.0 38.1 35 279	Recom E	Tensile \ Torsional \ nmended Ma nhanced Ma Shoulder-Shou	Yield Strength Yield Strength akeup Torque akeup Torque bulder Length fusted Weight	kdaN ft-lbs ft-lbs ft-lbs m kg/m	73.0 103 6,500 3,900 4,600 9.60 10.35	F	71.4 103 6,500 3,900	CDI
Connection Type Material Yield Strength OD ID Pin Shoulder Angle Pin Tool Joint Length Box Tool Joint Length	mm mm deg mm	896 73.0 38.1 35 279	Recom E	Tensile Y Torsional Y Inmended Ma Inhanced	Yield Strength Yield Strength akeup Torque akeup Torque oulder Length tusted Weight Displacement	kdaN ft-lbs ft-lbs ft-lbs m kg/m L/m	73.0 103 6,500 3,900 4,600 9.60 10.35 2.94	F	71.4 103 6,500 3,900	CDI

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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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COMPLETE GROUP

DRILL PIPE PERFORMANCE DATA SHEET

Pipe Size: in (60mm) 0 Grade: S135 Range: 2

Pipe Weight: 3.90kg/m)

0 Upset:

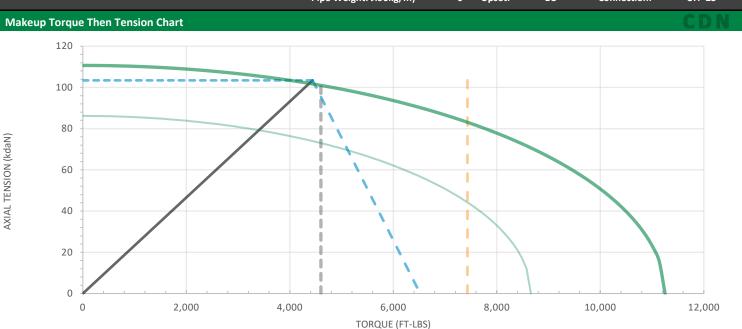
EU

Tube Yield

Connection:

- Prem Tube Yield

CTP 23

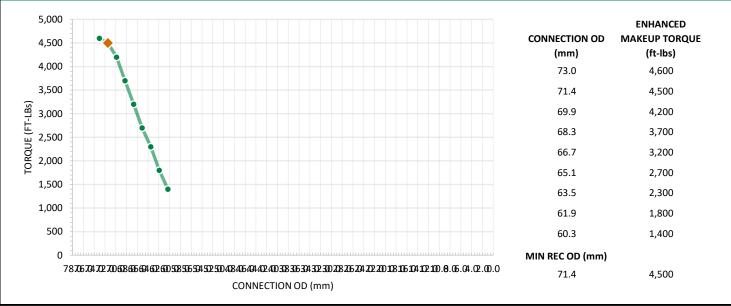


Pin Yield — —

Box Yield

Connection Wear Chart

— — Makeup Torque



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Shoulder Separation