



Moose Dokter Ltd.

Welded Heavy Weight Drill Pipe Datasheet

Nominal Data		Outside Diameter of Tube	4 1/2	in	Ø114.3×23.02		mm	
		Inside Diameter of Tube	2 11/16	in				
		Diameter of Central Upset	5	in	127	mm		
		Length of Central Upset	24	in	609.6	mm		
		Length Range	31ft±6in		9.45m±0.15m			
			Total Length (with Pin Thread Length)					
		RSC Type	HLIDS40		without any Stress Relief Features			
		Outside Diameter of Tool Joint	5 1/4	in	Ø133.4	mm		
		Inside Diameter of Tool Joint	2 11/16	in	Ø68.26	mm		
		Pin Tong Length	30	in	762	mm		
		Box Tong Length	27	in	685.8	mm		
		Elevator Taper	18°					
Calculated Parameters		USC			SI			
		New	Premium	Unit	New	Premium	Unit	
Tube	Dimension	Outside Diameter	4.500	4.138	in	114.3	105.09	mm
		Wall Thickness	0.906	0.725	in	23.02	18.42	mm
		Inside Diameter	2.688	2.688	in	68.26	68.26	mm
		Section Area	10.232	7.772	in ²	6601.1	7.77	mm ²
		Section Modulus	7.808	5.716	in ³	7.81	5.72	mm ³
		Polar Section Modulus	15.616	11.432	in ³	15.62	11.43	mm ³
	Performance	Material Yield Strength	55000		psi	379		MPa
		Tensile Strength	562700	427500	lbs	2506	1904	kN
		Torsional Strength	41300	30200	ft-lbs	55995	40946	N·m
		80% Torsional Strength	33000	24200	ft-lbs	44800	32800	N·m
		Pressure Capacity	19384	15507	psi	133.6	106.9	MPa
		Collapse Capacity	17691	15897	psi	122.0	109.6	MPa
Tool Joint	Dimension	Outside Diameter	5.250		in	133.4		mm
		Inside Diameter	2.6875		in	68.26		mm
		Box Length	27.0		in	685.8		mm
		Pin Length (with Pin Thread)	35.0		in	889		mm
		Make-up Loss	5		in	127		mm
	Performance	Material Yield Strength	110000		psi	758		MPa
		Tensile Strength	711700		lbs	3170		kN
		Torsional Strength	30400		ft-lbs	41200		N·m
		Max Make-up Torque (Recommended)	18200		ft-lbs	24700		N·m
		Min Make-up Torque	14100		ft-lbs	20600		N·m
Balance Outside Diameter	5.1388		in	130.5		mm		
Heavy Weight Drill Pipe	Torsional Ratio (Tool Joint / Tube)	0.74			0.74			
	Adjusted Weight	38.895		lbs/ft	57.93		kg/m	
	Fluid Displacement	0.5938		gal/ft	7.38		dm ³ /m	
	Fluid Capacity	0.2947		gal/ft	3.66		dm ³ /m	
	Drift Size	2.4375		in	61.9		mm	

Recommendations Only