

Welded Heavy Weight Drill Pipe (Sour Service) Datasheet

Nominal Data			Outside Diameter of Tube		5	in	Ø127×25.4		mm		
			Inside Diameter of Tube		3	in					
			Diameter of Central Upset		5 1/2	in	139.7		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		NC50 without any Stress Relief Features						
			Outside Diameter of Tool Joint		6 5/8	in	Ø168.3		mm		
			Inside Diameter of Tool Joint		3	in	Ø76.2		mm		
			Pin Tong Length		22.5	in	571.5		mm		
			Box Tong Length		21	in	533.4		mm		
			Elevator Taper		18°						
Calculated Parameters			USC			SI					
			New	Premium	Unit	New	Premium	Unit			
Pipe Body	Dimension	Outside Diameter	5.000	4.600	in	127.0	116.84	mm			
		Wall Thickness	1.000	0.800	in	25.40	20.32	mm			
		Inside Diamete	3.000	3.000	in	76.20	76.20	mm			
		Section Area	12.566	9.55	in²	8107.3	9.55	mm²			
		Section Modulus	10.681	7.827	in³	10.68	7.83	mm³			
		Polar Section Modulus	21.363	15.654	in³	21.36	15.65	mm³			
	Performance	Material Yield Strength	55000		psi	379		MPa			
		Tensile Strength	691200	525300	lbs	3078	2340	kN			
		Torsional Strength	56500	41400	ft-lbs	76604	56131	N·m			
		80% Torsional Strength	45200	33100	ft-lbs	61300	44900	N·m			
		Pressure Capacity	19250	15400	psi	132.7	106.2	MPa			
		Collapse Capacity	17600	15803	psi	121.3	109.0	MPa			
Tool Joint	Dimension	Outside Diameter	6.625		in	168.3		mm			
		Inside Diameter	3.0000		in	76.20		mm			
		Box Length	21.0		in	533.4		mm			
		Pin Length (with Pin Thread)	27.0		in	685.8		mm			
		Make-up Loss	4.5		in	114.3		mm			
	Performance	Material Yield Strength	110000		psi	758		MPa			
		Tensile Strength	1298200		lbs	5782		kN			
		Torsional Strength	53000		ft-lbs	71900		N·m			
		Max Make-up Torque	34500		ft-lbs	46700		N·m			
		Recommended Make-up Torque	31800		ft-lbs	43100		N·m			
		Min Make-up Torque	26500		ft-lbs	35950		N·m			
		Balance Outside Diameter	6.5110		in	165.4		mm			
Heavy Weight Drill Pipe Assembly	Torsional Ratio (Tool Joint / Tube)		0.94		0.94						
	Adjusted Weight		50.047	lbs/ft	74.55		kg/m				
	Fluid Displacement		0.7640	gal/ft	9.50		dm³/m				
	FluidCapacity		0.3672	gal/ft	4.56		dm³/m				
	Drift Size		2.7500	in	69.9		mm				