Shanghai Hilong Drill Pipe Co., Ltd.

Welded Drill Pipe Datasheet

Nominal Data	Label 1	4			Ø101.6×8.38mm		
	Label 2	14.00					
	Upset Style & Grade	IU			S		
	Length Range	31.5ft±6in			9.6±0.15m		
		Shoulder to Shoulder					
	RSC Type	HLIST39					
	OD of Tool Joint	4 7/8		in	Ø123.8		mm
	ID of Tool Joint	2 11/16		in	Ø68.26		mm
	Pin Tong Length	12		in	304.8		mm
	Box Tong Length	17		in	431.8		mm
	Elevator Taper	18°					

Calculated Parameters			USC			SI		
			New	Premium	Unit	New	Premium	Unit
Drill Pipe Body	Dimension	Outside Diameter	4.000	3.868	in	101.6	98.25	mm
		Wall Thickness	0.330	0.264	in	8.38	6.71	mm
		Inside Diameter	3.340	3.340	in	84.84	84.84	mm
		Section Area	3.805	2.989	in²	2455	1928	mm²
		Section Modulus	3.229	2.523	in³	52914	41345	mm³
		Polar Section Modulus	6.458	5.046	in³	105828	82689	mm³
	Performance	Material Yield Strength	135000		psi	931		MPa
		Tensile Strength	513600	403500	lbs	2287	1797	kN
		Torsional Strength	41900	32800	ft-lbs	56809	44471	N·m
		80%Torsional Strength	33500	26200	ft-lbs	45400	35600	N·m
		Pressure Capacity	19491	17820	psi	134.4	122.9	MPa
		Collapse Capacity	20137	13832	psi	138.8	95.4	MPa
Tool Joint	Dimension	Outside Diameter of RSC	4.875	*4.719*	in	123.8	*119.9*	mm
		Inside Diameter of RSC	2.688	*2.719*	in	68.26	*69.06*	mm
		Box Tong Length	17	*7.5*	in	431.8	*190.5*	mm
		Pin Tong Length	12	*6*	in	304.8	*152.4*	mm
		Make-up Loss	4.500		in	114.30		mm
	Performance	Material Yield Strength	130000		psi	896		MPa
		Tensile Strength	723500	*706200*	lbs	3222	*3145*	kN
		Torsional Strength	38900	*33200*	ft-lbs	52741	*45013*	N·m
		Max Make-up Torque	24500	*20900*	ft-lbs	33200	*28400*	N·m
		Recommended Make-up Torque	23300	*19900*	ft-lbs	31600	*27000*	N·m
		Min Make-up Torque	22200	*18900*	ft-lbs	30100	*25700*	N·m
		Balance Outside Diameter	Pin is higher	———	in	Pin is higher	——	mm
Drill Pipe		Torsional Ratio (Tool Joint / Pipe Body)	0.93	*1.01*		0.93	*1.01*	
		Adjusted Weight	15.88	*14.49*	lbs/ft	23.65	*21.59*	kg/m
		Fluid Displacement	0.242	*0.221*	gal/ft	3.01	*2.75*	dm³/m
		Fluid Capacity	0.442	*0.449*	gal/ft	5.49	*5.57*	dm³/m
		Drift Size	2.563	———	in	65.1	——	mm

The Max and Min Make-up Torques are just recommended for operational deviation

Note Make-up Torque is based on a friction factor of 1.0 for thread compound.

Premium data of Tool Joint is for reference only.