

Spiral Heavy Weight Drill Pipe

Tube								Tool Joint				Weight (lb)				
Nominal Size	Nominal Tube Dimensions				Mechanical Properties (Tube)				Connection (Size and Type)	OD	ID	Mechanical Properties (Tool Joint)		Approximate Value Including Tube and Tool Joints		Minimum Make-up Torque (ft-lbs.)
	ID	Wall Thickness	Area (in.²)	Center Upsets	End Upsets	Tensile Yield (lbs.)	Torsional Yield (ft-lbs)	Tensile Yield (lbs)				Torsional Yield (ft-lbs)	Per Foot	Per Joint (31 ft)		
3 1/2	2 1/8	0.719	6.282	4	3 7/8	345,500	19,600	NC38 (3-1/2 IF)	4 7/8	2 1/8	842,400	22,900	30	930	11,500	
3 1/2	2 1/4	0.625	5.645	4	3 7/8	310,500	18,500	NC38 (3-1/2 IF)	4 7/8		22,900					
								DS38	4 7/8	2 1/4	790,900	30,600	27.83	863	12,900	
								DT38	4 7/8		34,200				12,900	
4	2 9/16	0.719	7.411	4 1/2	4 3/16	407,600	27,600	NC40 (4 FH)	5 1/4	2 9/16	838,300	27,800	33.49	1,038	13,900	
4 1/2	2 3/4	0.875	9.965	5	4 11/16	548,100	40,700	NC46 (4 IF)	6 1/4	2 13/16	1,151,100	43,600	45.31	1,405	21,800	
								DS46	6 1/4	2 13/16	1,151,100	60,300			26,100	
5	3	1	12.566	5 1/2	5 1/8	691,200	56,500	NC50 (4-1/2 IF)			57,800					
								DS50	6 5/8	3	1,416,200	82,900	61.71	1,913	34,600	
								DT50			88,800				34,900	
5 1/2	3 1/4	1.125	15.463	6	5 11/16	850,400	75,900	5-1/2 FH			78,700				39,400	
								DS55	7 1/4	3 1/4	1,778,300	111,100	65.06	2,017	45,500	
DT55			115,100			45,400										
6 5/8	4 1/2	1.063	18.574	7 1/8	6 15/16	1,021,600	118,900	6-5/8 FH	8	4 1/2	1,896,100	87,900	74.44	2,308	43,900	

Conventional Heavy Weight Drill Pipe

Tube								Tool Joint				Weight (lb)				
Nominal Size	Nominal Tube Dimensions				Mechanical Properties (Tube)				Connection (Size and Type)	OD	ID	Mechanical Properties (Tool Joint)		Approximate Value Including Tube and Tool Joints		Minimum Make-up Torque (ft-lbs.)
	ID	Wall Thickness	Area (in.²)	Center Upsets	End Upsets	Tensile Yield (lbs.)	Torsional Yield (ft-lbs)	Tensile Yield (lbs)				Torsional Yield (ft-lbs)	Per Foot	Per Joint (31 ft)		
2 7/8	1 1/2	0.688	4.727	2 15/16	2 15/16	52,000	22,400	NC28 (2-3/8 IF)	3 3/8	1 1/2	357,700	6,300	17.26	535	3,800	
3 1/2	2 1/16	0.719	6.282	4	3 7/8	345,500	19,600	NC38 (3-1/2 IF)	4 7/8	2 1/8	842,400	22,900	26.81	831	11,500	
3 1/2	2 1/4	0.625	5.645	4	3 7/8	310,500	18,500	NC38 (3-1/2 IF)	4 7/8		22.9					
								DS38	4 7/8	2 1/4	790,900	30,600	24.64	764	12,900	
								DT38	4 7/8		34,200				12,900	
4	2 9/16	0.719	7.411	4 1/2	4 3/16	407,600	27,600	ND40 (4 FH)	5 1/4	2 9/16	838,300	27,800	30.71	962	13,900	
4 1/2	2 3/4	0.875	9.965	5	4 11/16	548,100	40,700	NC46 (4 IF)	6 1/4	2 13/16	1,151,100	43,600	42.66	1,322	21,800	
								DS46	6 1/4	2 13/16	1,151,100	60,300			26,100	
5	3	1	12.566	5 1/2	5 1/8	691,200	56,500	NC50 (4-1/2 IF)			57,800					
								DS50	6 5/8	3	1,416,200	82,900	51.64	1,601	34,600	
								DT50			88,800				34,900	
5 1/2	3 1/4	1.125	15.463	6	5 11/16	850,400	75,900	5-1/2 FH			78,700				39,400	
								DS55	7 1/4	3 1/4	1,778,300	111,100	63.14	1,957	45,500	
DT55			115,100			45,400										
6 5/8	4 1/2	1.063	18.574	7 1/8	6 15/16	1,021,600	118,900	6-5/8 FH	8	4 1/2	1,896,100	87,900	72.91	2,280	43,900	