

TECHNICAL SPECIFICATIONS

Equipment No's: Ref. Enclosed page

Spec. No.: DP-3.5-05

3-1/2" OD Drill Pipe, C-105S, NC-38 DSTJ Conn's.

New

Premium

80% remaining Body Wall

DESCRIPTION

Type
Range
Conventional=welded T-J. / Integral=Monoblock

EU, 15.5 #, H₂S
2
Conventional

TUBE DATA

Material grade		NK-C105S			
Internal plastic coating		TK-34P			
Tube body OD x ID	inch	3,500	2,602	3,320	2,602
Wall thickness, nominal	inch	0,449		0,359	
Cross Sectional Area	inch ²	4,304		3,342	
Polar Sectional Modulus	inch ³	5,847		4,477	
Tensile yield pipe	lbf	451 900		350 800	
	kN	2 010		1 560	
Torsional yield pipe	lbf-ft	29 500		22 600	
	kNm	40,0		30,6	
80% Torsional Yield	lbf-ft	23 600		18 080	
	kNm	32,0		24,5	

CONNECTION DATA

Connection type		NC-38 DSTJ			
Material grade		110 ksi			
Hardbanding		Arnco-300XT			
OD x ID	inch	5,000	2,438	4,625	2,438
B.S.R.	x : 1	2,54		1,82	
Tensile yield tooljoint	lbf	635 900		455 000	
	kN	2 829		2 024	
Torsional yield tooljoint	lbf-ft	25 190		18 500	
	kNm	34,2		25,1	
Make up torque (Max.)	lbf-ft	17 600		12 900	
	kNm	23,9		17,5	

OPERATIONAL DATA

Tool joint/Drill pipe torsional ratio	=> 0.80 *	0,85	1,11	
Drift diameter	inch	2,313		
Type of elevator shoulder:		18°		
Burst pressure	psi	23 570		19 900
	Mpa	163		137
Collapse pressure	psi	23 480		20 190
	MPa	162		139
Adjusted weight	lbs/ft	17,6		
	kg/mtr	26,2		
Approx weight each joint	lbs	554		
	kg	251		
Capacity	gal/ft	0,271		
	ltr/mtr	3,37		
Open end displacement	gal/ft	0,27		
	ltr/mtr	3,34		
Closed end displacement	gal/ft	0,54		
	ltr/mtr	6,71		
Built In Length (shoulder to shoulder)	ft	31,5		
	mtr.	9,6		

Calculated using nominal OD & ID. Safety & Dope friction factor used: 1.0

Values herein is meant as guidelines only. Odfjell will not be held liable for any damage or injuries !

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<i>String number:</i>	<i>Joints:</i>	<i>Individual serial numbers:</i>
OWS-DP-3128	648	OWS-G1000 to OWS-G1647