

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-5-14

TECHNICAL SPECIFICATIONS

5" OD Heavy-Weight Drill Pipe, 4145, DPM DS-50 Conn's.

New

Premium

80% Remaining Body Wall

DESCRIPTION

Type	AISI-4145H, 45.32#
Range	2
Conventional=welded T-J. / Integral=Monoblock	Integral

TUBE DATA

Material grade	AISI-4145H (120 ksi)				
Internal plastic coating	DJ-207				
Tube body OD x ID	inch	5.000	3.000	4.600	3.000
Wall thickness, nominal	inch	1.000		0.800	
Cross Sectional Area	inch ²	12.566		9.550	
Polar Sectional Modulus	inch ³	21.363		15.654	
Tensile yield pipe	lbf	1,507,964		1,146,052	
	<i>kN</i>	<i>6,708</i>		<i>5,098</i>	
Torsional yield pipe	lbf-ft	123,264		94,913	
	<i>kNm</i>	<i>167.1</i>		<i>128.7</i>	
80% Torsional Yield	lbf-ft	98,611		75,930	
	<i>kNm</i>	<i>133.7</i>		<i>102.9</i>	

CONNECTIONS DATA

Connection type	DPM DS-50				
Stress Relief Grooves	NA				
Material grade	AISI-4145H (120 ksi)				
Hardbanding	TCS-Titanium				
OD x ID	inch	6.625	3.000	6.313	3.000
B.S.R.	x : 1	2.48		2.00	
Tensile yield tooljoint	lbf	1,397,293		1,397,293	
	<i>kN</i>	<i>6,215</i>		<i>6,215</i>	
Torsional yield tooljoint	lbf-ft	78,399		72,127	
	<i>kNm</i>	<i>106.3</i>		<i>97.8</i>	
Make up torque (Max.)	lbf-ft	54,900		47,350	
	<i>kNm</i>	<i>74.4</i>		<i>64.2</i>	

OPERATIONAL DATA

Tool-joint/Drill-pipe torsional ratio		0.64		0.83	
Drift diameter	inch			2.875	
Type of elevator shoulder				18°	
Burst pressure	psi	49,412		35,200	
	<i>Mpa</i>	<i>341</i>		<i>243</i>	
Collapse pressure	psi	38,400		31,610	
	<i>MPa</i>	<i>265</i>		<i>218</i>	
Adjusted weight	lbs/ft			54.20	
	<i>kg/mtr</i>			<i>80.7</i>	
Approx weight each joint	lbs			1,680	
	<i>kg</i>			<i>762</i>	
Capacity	gal/ft			0.367	
	<i>ltr/mtr</i>			<i>4.56</i>	
Open end displacement	gal/ft			0.828	
	<i>ltr/mtr</i>			<i>10.28</i>	
Closed end displacement	gal/ft			1.195	
	<i>ltr/mtr</i>			<i>14.84</i>	
Built In Length (shoulder to shoulder)	ft			31.0	
	<i>mtr.</i>			<i>9.45</i>	

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!

String number:	Joints:	Individual serial numbers:
PO 231010	30	OWS-500 to OWS-529
PO 409315	50	OWS-1500 to OWS-1549
PO 431074	50	OWS-1550 to OWS-1599
PO 431204	50	OWS-1600 to OWS-1649