Dahl Oilfield Services a.s.
STAVANGER – NORWAY

Technical 4.75" OD Elevator groove DC's **90 square or 18 taper shoulder**	**Unit**	**Standard** **90 Square**	**Alt 1** **18 taper**	**Alt 2** **18 taper**	**Alt 3** **18 taper**
Overall New Length	ft	30.63	30.67	30.67	30.67
Box tong space	in	20	20	20	20
Elevator Type		DC	DP	DP(3 1/2)	DP
Elevator recess OD	in	**4 1/4**	**4**	**3 5/8**	**3 1/2**
Elevator recess length	in	18	33 1/2	33 1/2	33 1/2
Wear pad 1	in	3	3	3	3
Slip recess length	in	21	39.5	39.5	39.5
Slip recess OD	in	**4 3/8**	**4**	**3 5/8**	**3 1/2**
Wear pad 2	in	12	12	12	12
Spiral section area	in^2	16.83	16.83	16.83	16.83
Spiral length	in	269.5	220	220	220
Pin tong space	in	24	40	40	40
Max. ID	in	2 1/4	2 1/4	2 1/4	2 1/4
Min. Wall thickness	in	1.00	0.88	0.71	0.63
Factor diff. stick. in hole		53%	50%	50%	50%
Displacement	gal/ft	0.6761	0.6438	0.6207	0.6135
Capacity	gal/ft	0.2066	0.2066	0.2066	0.2066
Closed end displacement	gal/ft	0.8826	0.8504	0.8272	0.8200
Weight	lbf	1,362	1,298	1,252	1,237
Weight Variation from Std.	%	0%	95%	92%	91%
Wt / ft	lbf/ft	44.47	42.33	40.83	40.34
Connection	API	NC 38			
OD	in	4.75			
ID	in	2.25			
BB + SRG (NS-2)		yes			
Connection Tensile Capacity	lbf	456,181			
Connection Torsional Capacity	ft.lbf	16,305			
Make up torque (with SRG)	ft.lbf	9,264			
B.S.R (With SRFs)		2.12			
Body					
Tensile Capacity	lbf	976,626	821,680	606,869	539,961
Torsional Capacity	ft.lbf	73,460	59,812	42,127	36,922
Stiffness					
ER Area moment of inertia	in^4	14.8	11.3	7.2	6.108
ER Bending inertia variation from Std.	%	0%	76%	49%	41%
SR Area moment of inertia	in	16.7	11.3	7.2	6.108
SR Bending inertia variation from Std.	%	0%	68%	43%	37%
Stiffness Ratio	<3.5	1.44	1.77	2.5	2.86
Dawson Paslay Equivalent Buckling Resistance	lbf WOB	29,577	25,317	19,884	18,192
Material minimum yield strength	psi	**110,000**	**110,000**	**110,000**	**110,000**

Created for DOS by Fearnley Procter Norge based on information supplied to them.
API formulae used where applicable