

# Drill Pipe/Tool Joint Combination API Grade Drill Pipe

## New Drill Pipe Data

Nom. Size	Nom. Weight	Wall Thickness	Inside Diameter	Grade	Torsional Yield	Tensile Yield	Collapse Pressure	Internal Pressure	Upset Type
in. mm	lb/ft kg/m	in. mm	in. mm		ft-lb kg-m	lb ton	psi kg/cm2	psi kg/cm2	
<b>2 3/8 60.3</b>	6.65 9.91	0.280 7.11	1.815 46.1	E	6250 862	138220 62	15600 1096	15470 1087	EU
				X-95	7920 1092	175080 79	19760 1389	19600 1377	EU
				G-105	8750 1207	193500 87	21840 1535	21660 1522	EU
				E	11550 1593	214340 97	16510 1160	16530 1162	IU
<b>2 7/8 73.0</b>	10.40 15.5	0.362 9.19	2.151 54.6	E					IU
				X-95	14640 2020	271500 123	20910 1469	20930 1471	EU
				G-105	16180 2232	300080 136	23110 1624	23140 1626	EU
				S-135	20800 2870	385820 175	29720 2089	29750 2091	EU
				E	14150 1952	194270 88	10040 705	9520 669	EU
				X-95	23500 3243	343990 156	17880 1256	17480 1228	EU
<b>3 1/2 88.9</b>	13.30 19.8	0.368 9.35	2.764 70.2	E	18550 2559	271570 123	14110 991	13800 970	EU
				X-95	25970 3583	380190 172	19760 1389	19320 1358	EU
				G-105	33390 4607	488820 221	25400 1785	24840 1746	EU
				S-135	21090 2910	322780 146	16770 1178	16840 1183	EU
				X-95	26710 3685	408850 185	21250 1493	21330 1499	EU
				G-105	29520 4073	451890 205	23480 1650	23570 1656	EU
				S-135	37950 5237	581000 263	30190 2122	30310 2130	EU
				E	21090 2910	322780 146	16770 1178	16840 1183	EU

Note:

This data is based on the latest publications of API Spec. 7 and R.P.7G. It is for general information only. RSA does not accept responsibility for possible damage resulting from the use of these specifications.

- Hardbanding and Internal Plastic Coating can be provided upon request. Make and Break service of tool joint.
- Propriety Drill Pipe:
  - Grant Prideco H series Drill Pipe with High Torque connections.

## New Tool Joint Data

Designation	Outside Diameter	Inside Diameter	Torsional Yield	Tensile Yield	Make-up torque
	in. mm	in. mm	ft-lb kg-m	lb ton	ft-lb kg-m
NC26(I.F.)	3 3/8 85.7	1 3/4 44.5	6800 940	313680 142	3500 484
O..H	3 1/4 82.6	1 3/4 44.5	6400 885	294600 134	3300 456
NC26(I.F.)	3 3/8 85.7	1 3/4 44.5	6800 940	313680 142	3500 484
NC26(I.F.)	33/8 85.7	1 3/4 44.5	6800 940	313680 142	3500 484
E.H.	4 1/4 108.0	1 7/8 47.6	13400 1853	505080 229	6700 927
NC26(SH)	3 3/8 85.7	1 3/4 44.5	6800 940	313680 142	3400 470
PAC.	3 1/8 79.4	1 1/2 38.1	5800 802	269470 122	3500 484
NC31(I.F.)	4 1/8 104.8	2 1/8 54.0	11800 1632	447130 203	5900 816
O.H.	3 7/8 98.4	2 5/32 54.8	8900 1231	345360 157	4500 622
NC31(I.F.)	4 1/8 104.8	2 50.8	13200 1826	495730 225	6600 913
NC31(I.F.)	4 1/8 104.8	2 50.8	13200 1826	495730 225	6600 913
NC31(I.F.)	4 3/8 111.1	1 5/8 41.3	17000 2351	623840 283	8500 1176
NC38(I.F.)	4 3/4 120.7	2 11/16 68.2	18100 2503	587310 266	9100 1259
NC38(W.O.)	4 3/4 120.7	3 76.2	12800 1770	419800 190	6400 885
O.H.	4 3/4 120.7	3 76.2	12100 1673	392040 178	6100 844
NC31(S.H.)	4 1/8 104.8	2 1/8 54.0	11800 1632	447130 203	6000 830
NC38(I.F.)	4 3/4 120.7	2 11/16 68.3	18100 2503	587310 266	9100 1259
O.H.	4 3/4 120.7	2 11/16 68.3	17400 2406	559560 254	8700 1203
NC38(I.F.)	5 127.0	2 9/16 65.1	20300 2807	649160 294	10200 1411
NC38(I.F.)	5 127.0	2 7/16 61.9	22200 3070	708060 321	11100 1535
NC40(F.H.)	5 3/8 136.5	2 7/16 61.9	30000 4149	897160 407	15000 2075
NC38(I.F.)	5 127.0	2 1/8 54.0	26400 3651	836400 379	13300 1839
NC38(I.F.)	5 127.0	2 9/16 65.1	20300 2807	649160 294	10200 1411
NC38(I.F.)	5 127.0	2 7/16 61.9	22200 3070	708060 321	11100 1535
NC40(4 F.H.)	5 1/4 133.4	2 9/16 65.1	27800 3845	838260 380	13900 1922
NC38(I.F.)	5 127.0	2 1/8 54.0	26400 3651	836400 379	13300 1839
NC40(4 F.H.)	5 1/2 139.7	2 1/4 57.2	32900 4550	980000 445	16500 2282

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## New Drill String Data

Torsional Ratio	Tensile Ratio	Approx. Weight
to Drill Pipe	to Drill Pipe	lb/ft kg/m
1.10	2.27	7.00 10.4
1.02	2.13	6.90 10.3
0.87	1.79	7.10 10.6
0.79	1.62	7.10 10.6
1.16	2.36	11.20 16.7
0.59	1.44	10.39 15.5
0.50	1.27	10.28 15.3
1.03	2.09	10.89 16.3
0.77	1.61	10.78 16.1
0.90	1.83	11.07 16.5
0.82	1.65	11.07 16.5
0.82	1.62	11.54 17.2
1.28	3.02	10.59 15.8
0.91	2.16	10.33 15.4
0.86	2.02	10.32 15.4
0.64	1.65	13.55 20.2
0.98	2.16	13.95 20.8
0.94	2.06	13.95 20.8
0.87	1.89	14.59 21.8
0.86	1.86	14.68 21.9
0.90	1.84	13.68 20.4
0.80	1.72	14.89 22.2
0.97	2.01	16.59 24.8
0.83	1.73	16.76 25.0
0.93	1.86	17.05 25.4
0.90	1.86	16.97 25.3
0.87	1.69	17.71 26.4

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## New Drill Pipe Data

Nom. Size	Nom. Weight	Wall Thickness	Inside Diameter	Grade	Torsional Yield	Tensile Yield	Collapse Pressure	Internal Pressure	Upset Type	
in. mm	lb/ft kg/m	in. mm	in. mm		ft-lb kg-m	lb ton	psi kg/cm2	psi kg/cm2		
<b>4 101.6</b>	11.85 17.7	0.262 6.65	3.476 88.3	E	19470 2691	230750 104	8410 591	8600 604	EU	
									EU	
									EU	
	14.00 20.9	0.330 8.38	3.340 84.8	E	23290 3214	285360 129	11350 797	10830 761	IU	
									IU	
									EU	
					X-95	29500 4071	361460 164	14380 1010	13720 964	IU
										EU
										IU
					G-105	32600 4498	399500 181	15900 1117	15160 1065	IU
										EU
										IU
S-135	41920 5784	513650 233	20170 1417	19490 1370	IU					
					EU					
					EU					

Note:

- Hardbanding and Internal Plastic Coating can be provided upon request. Make and Break service of tool joint.
- Propriety Drill Pipe:
  - Grant Prideco H series Drill Pipe with High Torque connections.

## New Tool Joint Data

Designation	Outside Diameter	Inside Diameter	Torsional Yield	Tensile Yield	Make-up torque	Torsional Ratio to Drill Pipe	Tensile Ratio to Drill Pipe	Approx. Weight lb/ft kg/m
	in. mm	in. mm	ft-lb kg-m	lb ton	ft-lb kg-m			
NC46(I.F.)	6 152.4	3 1/4 82.6	33600 4647	901170 409	16900 2337	1.73	3.91	13.52 20.2
NC46(W.O.)	5 3/4 146.1	3 7/16 87.3	29100 4023	782990 355	14400 1992	1.49	3.39	12.91 19.3
O.H.	5 1/4 133.4	3 15/32 88.1	22200 3070	621240 282	11300 1563	1.14	2.69	12.10 18.1
NC40(F.H.)	5 1/4 133.4	2 13/16 71.4	23500 3250	711610 323	11800 1632	1.01	2.49	15.05 22.5
S.H.	4 5/8 117.5	2 9/16 65.1	15000 2075	512040 232	7700 1065	0.64	1.79	14.36 21.4
NC46(I.F.)	6 152.4	3 1/4 82.6	33600 4647	901160 409	16900 2337	1.43	3.16	15.86 23.7
O.H.	5 1/2 139.7	3 1/4 82.6	27400 3789	759340 344	13800 1909	1.18	2.66	15.03 22.4
NC40(F.H.)	5 1/4 133.4	2 11/16 68.3	25400 3513	776400 352	12700 1756	0.86	2.15	15.28 22.8
NC46(I.F.)	6 152.4	3 1/4 82.6	33600 4647	901170 409	16900 2337	1.13	2.49	16.15 24.1
NC40(F.H.)	5 1/2 139.7	2 7/16 61.9	30000 4149	897160 407	15000 2075	0.93	2.25	15.86 23.7
NC46(I.F.)	6 152.4	3 1/4 82.6	33600 4647	901170 409	16900 2337	1.02	2.26	16.15 24.1
NC40(F.H.)	5 1/2 139.7	2 50.8	36400 5034	1080120 490	18200 2517	0.87	2.10	16.14 24.1
NC46(I.F.)	6 152.4	3 76.2	39200 5421	1048430 476	19600 2711	0.94	2.04	16.38 24.4

Note:

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## New Drill String Data

# Drill Pipe/Tool Joint Combination API Grade Drill Pipe

## New Drill Pipe Data

Nom. Size	Nom. Weight	Wall Thickness	Inside Diameter	Grade	Torsional Yield	Tensile Yield	Collapse Pressure	Internal Pressure	Upset Type								
in. mm	lb/ft kg/m	in. mm	in. mm		ft-lb kg-m	lb ton	psi kg/cm2	psi kg/cm2									
4 1/2 114.3	13.75 20.5	0.271 6.88	3.958 100.5	E	25910 3582	270030 122	7200 506	7900 555	IU								
									EU								
	16.60 24.7	0.337 8.56	3.826 97.2	E	30810 4251	330560 150	10390 730	9830 691	EU								
									EU								
									IEU								
									IEU								
									X-95 E	39020 5384	418700 190	12750 896	12450 875	EU			
														IEU			
									G-105	43130 5951	462780 210	13820 971	13760 967	EU			
														IEU			
									S-135	55450 7652	595000 270	16800 1181	17690 1243	EU			
														IEU			
									20.00 29.8	0.430 10.92	3.640 92.5	E	36900 5092	412360 187	12960 911	12540 881	EU
																	IEU
	IEU																
	X-95	46740 6450	522320 237	16420 1154	15890 1117	EU											
						IEU											
	G-105	51660 7129	577300 262	18150 1275	17560 1234	EU											
						IEU											
	S-135	66420 9165	742240 336	23330 1640	22580 1587	EU											
						IEU											

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  - Grant Prideco H series Drill Pipe with High Torque connections.

## New Tool Joint Data

Designation	Outside Diameter	Inside Diameter	Torsional Yield	Tensile Yield	Make-up torque
	in. mm	in. mm	ft-lb kg-m	lb ton	ft-lb kg-m
NC46(4I.F.)	6 152.4	3 3/8 85.7	31000 4287	823120 373	15500 2144
NC50(I.F.)	6 1/4 158.8	3 7/8 98.4	34300 4744	849550 385	17100 2365
NC50(I.F.)	6 3/8 161.9	3 3/4 95.3	37700 5214	944000 428	18900 2614
O.H.	5 7/8 149.2	3 3/4 95.3	27500 3803	713880 324	13800 1909
F.H.	6 152.4	3 76.2	34800 4813	976160 443	17400 2406
NC46(E.H.)	6 1/4 158.8	3 1/4 82.6	33900 4688	901170 409	17000 2351
NC50(I.F.)	6 3/8 161.9	3 3/4 95.3	37700 5214	939360 426	18900 2614
F.H.	6 152.4	3 76.2	34800 4813	976160 443	17400 2406
NC46(E.H.)	6 1/4 158.8	3 76.2	39600 5477	1048430 476	9800 12738
NC50(I.F.)	6 3/8 161.9	3 3/4 95.3	37700 5214	939360 426	18900 2614
F.H.	6 152.4	3 76.2	34800 4813	976160 443	17400 2406
NC46(E.H.)	6 1/4 158.8	3 76.2	39600 5477	1048430 476	9800 2738
NC50(4I.F.)	6 3/8 161.9	3 1/2 88.9	44900 6210	1110240 504	22400 3098
NC46(E.H.)	6 1/4 158.8	2 3/4 69.9	44900 6210	1183920 537	22500 3112
NC50(I.F.)	6 3/8 161.9	3 5/8 92.1	41200 5698	1030880 468	20600 2849
NC46(E.H.)	6 1/4 158.8	3 76.2	39600 5477	1048430 476	19800 2738
F.H.	6 152.4	3 76.2	34800 4813	976160 443	17400 2406
NC50(4 IF)	6 3/8 161.9	3 1/2 88.9	44900 6210	1110240 504	22400 3098
NC46(E.H.)	6 1/4 158.8	2 3/4 69.9	44900 6210	1183920 537	22500 3112
F.H.	6 152.4	2 1/2 63.5	44300 6127	1235400 560	22200 3070
NC50(4 I.F.)	6 3/8 161.9	3 1/2 88.9	44900 6210	1110240 504	22400 3098
NC46(E.H.)	6 1/4 158.8	2 1/2 63.5	49600 6860	1307640 593	24800 3430
NC50(4 IF)	6 5/8 168.3	3 76.2	57800 7994	1416430 643	30000 4149
NC46(E.H.)	6 1/4 158.8	2 1/4 57.2	53800 7441	1419480 644	26900 3720

Note:

- Hardbanding and Internal Plastic Coating can be provided upon request. Make and Break service of tool joint.
- Propriety Drill Pipe:
  - Grant Prideco H series Drill Pipe with High Torque connections.

## New Drill String Data

Torsional Ratio Tool Joints to Drill Pipe	Tensile Ratio Tool Joints to Drill Pipe	Approx. Weight lb/ft kg/m
1.20	3.05	15.63 23.3
1.32	3.15	15.45 23.0
1.23	2.84	17.96 26.8
0.89	2.16	17.08 25.5
1.12	2.95	18.16 27.1
1.09	2.73	18.38 27.4
0.97	2.24	18.31 27.3
0.89	2.33	18.25 27.2
1.01	2.50	18.71 27.9
0.88	2.03	18.31 27.3
0.81	2.11	18.25 27.2
0.91	2.27	18.71 27.9
0.81	1.87	18.57 27.7
0.81	1.99	18.92 28.2
1.02	2.49	21.61 32.2
1.07	2.54	22.12 33.0
0.95	2.37	21.66 32.3
0.96	2.13	22.05 32.9
0.96	2.27	22.60 33.7
0.95	2.37	22.33 33.3
0.86	1.92	22.05 32.9
0.96	2.27	22.79 34.0
0.87	1.91	23.00 34.3
0.81	1.91	22.97 34.3

# Drill Pipe/Tool Joint Combination API Grade Drill Pipe

## New Drill Pipe Data

Nom. Size	Nom. Weight	Wall Thickness	Inside Diameter	Grade	Torsional Yield	Tensile Yield	Collapse Pressure	Internal Pressure	Upset Type			
in. mm	lb/ft kg/m	in. mm	in. mm		ft-lb kg-m	lb ton	psi kg/cm2	psi kg/cm2				
<b>5 127.0</b>	19.50 29.0	0.362 9.19	4.276 108.6	E	41170 5681	395600 179	10000 703	9500 667	IEU			
				X-95	52140 7195	501090 227	12010 844	12040 846	IEU			
				G-105	57600 7948	553830 251	12990 913	13300 934	IEU			
				S-135	74100 10225	712070 323	15700 1103	17110 1202	IEU			
				E	52260 7211	530150 240	13500 949	13120 922	IEU			
				X-95	66190 9134	671520 304	17100 1202	16620 1168	IEU			
	25.60 38.1	0.500 12.70	4.000 101.6	G-105	73160 10096	742200 336	18900 1328	18380 1292	IEU			
				S-135	94060 12980	954260 433	24300 1708	23620 1660	IEU			
				21.90 32.6	0.361 9.17	4.778 121.4	E	50710 6997	437120 198	8440 593	8610 605	IEU
							X-95	64230 8863	553680 251	10000 703	10910 766	IEU
							G-105	70990 9796	611960 277	10740 755	12060 847	IEU
							S-135	91280 12596	786810 357	12710 893	15510 1090	IEU
<b>5 1/2 139.7</b>	24.70 36.8	0.415 10.54	4.670 118.6	E	56570 7806	497220 225	10460 735	9900 695	IEU			
				X-95	71660 9889	629810 285	12920 908	12540 881	IEU			
				G-105	79200 10929	696110 316	14000 984	13860 974	IEU			
				S-135	101830 14052	895000 406	17050 1198	17830 1253	IEU			

Note:

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## New Tool Joint Data

Designation	Outside Diameter	Inside Diameter	Torsional Yield	Tensile Yield	Make-up torque
	in. mm	in. mm	ft-lb kg-m	lb ton	ft-lb kg-m
5 1/2 F.H.	7 177.8	3 3/4 95.3	62200 8602	1448400 657	31500 4356
NC50(E.H.)	6 3/8 161.9	3 3/4 95.3	37700 5214	943990 428	18900 2614
5 1/2 F.H.	7 177.8	3 3/4 95.3	62200 8602	1448400 657	31500 4356
NC50(E.H.)	6 3/8 161.9	3 1/2 88.9	44900 6210	1110240 504	22400 3098
5 1/2 F.H.	7 177.8	3 3/4 95.3	62200 8602	1448400 657	31500 4356
NC50(E.H.)	6 1/2 165.1	3 1/4 82.6	51400 7109	1269240 576	25800 3568
5 1/2 F.H.	7 1/4 184.2	3 1/2 88.9	72500 10026	1619230 734	36300 5020
NC50(E.H.)	6 5/8 168.3	2 3/4 69.9	63400 8768	1551960 704	31800 4398
5 1/2 F.H.	7 177.8	3 1/2 88.9	62200 8602	1619280 735	31500 4356
NC50(E.H.)	6 3/8 161.9	3 1/2 88.9	44900 6210	1110240 504	22400 3098
5 1/2 F.H.	7 177.8	3 1/2 88.9	62200 8602	1619280 735	31500 4356
NC50(E.H.)	6 1/2 165.1	3 76.2	57000 7883	1416480 643	28600 3955
5 1/2 F.H.	7 1/4 184.2	3 1/2 88.9	72500 10026	1619280 735	36300 5020
NC50(E.H.)	6 5/8 188.3	2 3/4 69.9	63400 8768	1551960 704	31800 4398
5 1/2 F.H.	7 1/4 184.2	3 1/4 82.6	77700 10746	1778280 807	38900 5380
F.H.	7 177.8	4 101.6	56300 7786	1265760 574	28000 3872
F.H.	7 177.8	3 3/4 95.3	62200 8602	1448400 657	31500 4356
F.H.	7 1/4 184.2	3 1/2 88.9	72500 10026	1619280 735	36300 5020
F.H.	7 1/2 190.5	3 76.2	86800 12004	1825520 873	43700 6044
F.H.	7 177.8	4 101.6	56300 7786	1265760 574	28000 3872
F.H.	7 1/4 184.2	3 1/2 88.9	72500 10026	1619280 735	36300 5020
F.H.	7 1/4 184.2	3 1/2 88.9	72500 10026	1619280 735	36300 5020
F.H.	7 1/2 190.5	3 76.2	86800 12004	1925520 873	43700 6044

Note:

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- Proprietary Drill Pipe:
  - Grant Prideco H series Drill Pipe with High Torque connections.

## New Drill String Data

Torsional Ratio Tool Joints to Drill Pipe	Tensile Ratio Tool Joints to Drill Pipe	Approx. Weight lb/ft kg/m
1.53	3.66	22.11 32.9
0.92	2.37	20.87 31.1
1.19	2.89	22.36 33.3
0.88	2.22	21.38 31.9
1.08	2.62	22.36 33.3
0.89	2.29	21.86 32.6
0.98	2.28	23.19 34.6
0.86	2.18	22.54 33.6
1.21	3.06	28.12 41.9
0.86	2.09	26.88 40.1
0.95	2.41	28.34 42.3
0.86	2.11	27.81 41.5
0.99	2.18	28.88 43.1
0.87	2.09	28.26 42.1
0.83	1.86	29.14 43.4
1.11	2.90	23.79 35.5
0.98	2.62	24.41 36.4
1.02	2.65	25.25 37.6
0.96	2.45	26.37 39.3
0.99	2.55	26.32 39.2
1.01	2.57	27.74 41.4
0.92	2.33	27.74 41.4
0.86	2.15	28.86 43.0

# Drill Pipe/Tool Joint Combination

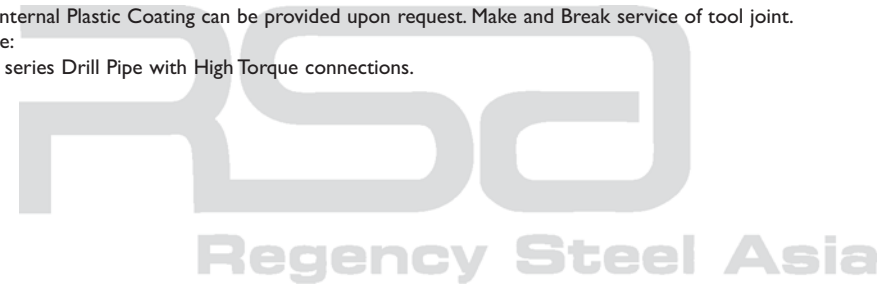
## API Grade Drill Pipe

### New Drill Pipe Data

Nom. Size	Nom. Weight	Wall Thickness	Inside Diameter	Grade	Torsional Yield	Tensile Yield	Collapse Pressure	Internal Pressure	Upset Type
in. mm	lb/ft kg/m	in. mm	in. mm		ft-lb kg-m	lb ton	psi kg/cm2	psi kg/cm2	
<b>6 5/8</b> <b>168.3</b>	25.20	0.330 8.38	5.965 151.5	E-75	70580 9740	489406 222	4810 338	6540 460	IEU
				X-95	89400 12337	619990 281	5310 373	8280 582	IEU
				G-105	98810 13635	685250 311	5490 385	9150 643	IEU
				5-135	127050 17531	881040 400	6040 424	11770 827	IEU
	27.70 41.3	0.362 9.19	5.902 149.9	E-75	76447 10556	533850 242	5920 416	7164 504	IEU
				X-95	96833 13363	676211 307	6728 473	9075 638	IEU
				G-105	107021 14769	746696 339	7084 498	10028 705	IEU
				5-135	137598 18988	960037 436	7839 551	12893 906	IEU

Note:

- Hardbanding and Internal Plastic Coating can be provided upon request. Make and Break service of tool joint.
- Propriety Drill Pipe:
  - Grant Prideco H series Drill Pipe with High Torque connections.



### New Tool Joint Data

Designation	Outside Diameter	Inside Diameter	Torsional Yield	Tensile Yield	Make-up torque
	in. mm	in. mm	ft-lb kg-m	lb ton	ft-lb kg-m
65/8 F.H.	8 203.2	5 127.0	74201 10729	1448137 821	37100 5433
65/8 F.H.	8 203.2	5 127.0	74201 10729	1448137 821	37100 5433
65/8 F.H.	8 203.2	5 127.0	74201 10729	1448137 821	37100 5433
65/8 F.H.	8 203.2	5 127.0	74201 10729	1448137 821	37100 5433
65/8 F.H.	8 203.2	5 127.0	74201 10729	1448137 821	37100 5433
65/8 F.H.	8 203.2	5 127.0	74201 10729	1448137 821	37100 5433
65/8 F.H.	8 203.2	5 127.0	74201 10729	1448137 821	37100 5433
65/8 F.H.	8 203.2	5 127.0	74201 10729	1448137 821	37100 5433

Note:

- Hardbanding and Internal Plastic Coating can be provided upon request. Make and Break service of tool joint.
- Propriety Drill Pipe:
  - Grant Prideco H series Drill Pipe with High Torque connections.



### New Drill String Data

Torsional Ratio	Approx. Weight
	lb/ft kg/m
1.05	27.20 40.5
0.83	27.20 40.5
0.75	27.20 40.5
0.58	27.20 40.5
0.97	28.84 42.96
0.76	28.84 42.96
0.69	28.84 42.96
0.54	28.84 42.96