



INTRODUCTION

- HSC[®] employed state-of-the-art computer hardware, CAD-CAM and FEM software complemented by worldwide experience to engineer its Premium Connection system.
- HSC[®] uses the latest computerized machine-tool technology to manufacture its Premium Connection system.
- HSC[®] Premium Connection system performs successfully down-hole in aggressive conditions throughout the world.
- HSC[®] offers a full range of Premium Threaded and Coupled options for all your applications.
- HSC[®] has supplied millions of feet, hundreds of thousands of joints in various sizes and weights of carbon and 13% Chromium steels, both tubing and casing.



HSC PREMIUM CONNECTION

The HSC[®] Premium Connection threaded and coupled system was developed to meet the needs of the Oil and Gas Industry. The design phase of HSC[®] Premium Thread Connection System employs various computer-oriented tools. Software images are created and subjected to Finite Element Analysis validated by the production of prototypes submitted to a programme of stringent mechanical testing (developed from API RP5C5). These tools, in addition to classical design methodology, are used to optimize crucial features of the joint (such as thread & seal interference and geometry) prior to "cutting metal". This highly successful premium connection is manufactured using the most modern machine-tool technology and gauging system. Maximization of product control and the accompanying close tolerancing ensure ultimate joint performance through consistency in make-up, elimination of snagging and improved running times. Verification of results of multiple made-up joints through in-field monitoring (using specialized torque-monitoring computer equipment) demonstrates excellent correlation with analysis predictions. The above improvements to an already proven concept have quickly established HSC[®] as a consistent, reliable, and cost effective threaded and coupled Premium Connection system.



TECHNICAL INFORMATION

The HSC[®] Premium Connection is a gas tight threaded and coupled tubing and casing system that is interchangeable with other premium connections with similar thread profiles.

Close Tolerances

HSC[®] uses state-of-the-art CNC machine tools and proven manufacturing systems to produce a high quality and close tolerance product, minimizing field problems.

Smooth Running

Consistency in manufacturing of HSC[®] products ensures repeatable make-up readings, both in thread and seal torque, resulting in improved running times and less snagging.

Inside the Joint

The 6 degree machined taper of the pin profile mates with the closely controlled bore of the HSC[®] coupling to allow very smooth product flow and no hang-ups of down-hole tooling.

Gas Tight Seals

Both HSC[®] tubing and casing metal to metal seal and torque shoulders ensure stored energy within the connection.

Testing

The HSC[®] tubing and casing performance and its interchangeability with other premium connections with similar thread profiles are fully proven by a stringent mechanical testing programme using helium-based pressure testing with multiple make and break checks (developed from API RP5C5). The tests have been supported by a series of rigorous field trials.

The Pin Thread

The HSC[®] pin has the classic Buttress profile, 3° load flank and 3/4" per foot taper with full thread "run-out".

The Coupling

The HSC[®] coupling is available in outside diameters to meet the following specifications:

- ES** Equal Strength
- R** Regular
- SC** Special Clearance
- SB** Special Bevel

The long coupling design ensures that the pin "run-out" thread on the pipe is always contained within the coupling thus ensuring that the tensile strength of the HSC[®] joint is at least equal to the pipe body. The long J-Section allows greater distribution of stress.

Anti-Galling Treatment

A high specification HSC[®] anti-galling surface treatment is applied to both pin and coupling. Extensive testing has proven that the occurrence of galling is reduced to an absolute minimum for assemblies of components using this preparation.

The Gauging System

The HSC[®] Gauging System, in addition to standard API 5B gauging methods, uses a precision-ground Certified Standard as the reference for the verification of the connection's dimensions.

Pin - The thread root and seal diameters are transferred from the Certified Standard to the precision-ground thread profile rolls and contact points. This gauge is then used to check the pin end.

Box - The thread crest and seal diameters are transferred from the Certified Standard to the precision-ground cylinder rolls and contact points. This gauge is then used to check the coupling.

The above system affords total control in the verification of both thread and seal interference.

The Joint in the Field

HSC[®] design ensures that the pin and coupling together are as strong as the pipe body itself and offer at least equal resistance to bending, tension, compression, internal and external pressure.

Pipe Protection

HSC[®] Tubing and Casing are externally coated with a clear mill varnish suitable for outdoor storage.

Thread Protection

HSC[®] Tubing and Casing threads are protected with polymer or polymer and steel reinforced thread protectors in types to meet customer requirements.



DIMENSIONS AND WEIGHTS

- Dimension Symbols**

- D** = Outside Diameter of pipe (inches)
- t** = Wall thickness of pipe (inches)
- d** = Nominal inside diameter of pipe (inches)
- d1** = Inside diameter of coupling (inches)
- W** = Outside diameter of regular coupling (inches)
- Wc** = Outside diameter of special clearance coupling (inches)
- L₄** = Minimum thread length (inches)
- N_L** = Length of coupling (inches)
- M_L** = Make up loss (inches)
- d^c** = Inside diameter of the coupling at root of thread at the critical cross-section
- e_w** = Weight gain or loss due to end finishing
- L^b** = Total length of bored section of assembled joint

- Dimensional Calculations**

Drift Diameter Formulae:

D	Drift Diameter
2 7/8" or less	d - 0.094"
3 1/2" to 8 5/8"	d - 0.125"
9 5/8" to 13 3/8"	d - 0.157"

(Drift size formulas taken from API 5CT Table 5.1)

- **Formula for Cross Section:**

Pipe Body: $S = \pi/4 (D^2 - d^2) \Pi$

Critical Cross Section of Couplings

Regular Couplings	Special Clearance Couplings
$S' = \pi/4 (W^2 - d^{c2})$	$S' = \pi/4 (W_c^2 - d^{c2})$

- **Calculations of Weight:**

Plain End Pipe Weight :

$W_{pe} = 10.68(D - t)$
(Calculation taken from API Buln. 5C3)

Weight gain or loss due to end finishing:

$e_W = A - B - L_4$	$W_{pe/12}$
$A = 0.2833 N_L$	$\pi/4 (W^2 - D^2)$
$B = 0.2833 L^b$	$\pi/4 (d_1^2 - D^2)$

Although prepared with great care and attention, the technical information appearing in this catalogue is for general information only. HSC® makes no representation or warranty for this information and customers should therefore carry out all necessary investigations to choose for themselves the technical solution suited to the installation and operating conditions under which our products will be used.



SIZES & GRADES OF HSC TUBING AND CASING

HSC[®] Tubing is available in sizes 2 3/8” to 4 1/2” and in Range 2 or 3

HSC[®] Casing is available in sizes 5” to 13 3/8” and in Range 2 or 3

HSC[®] Pup Joints are available for all sizes in lengths as required

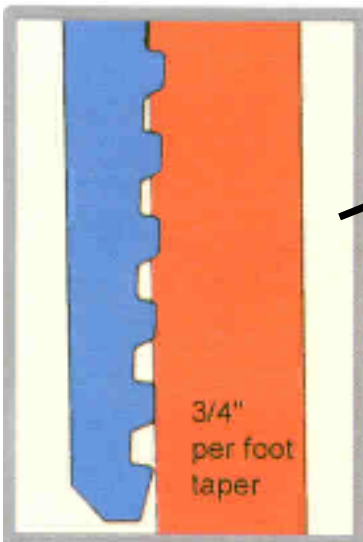
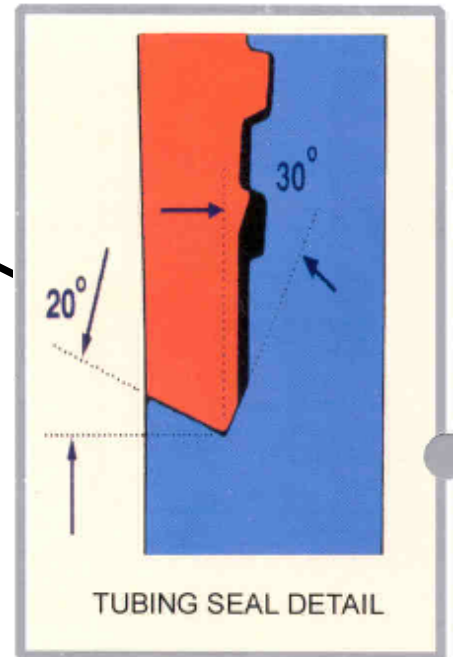
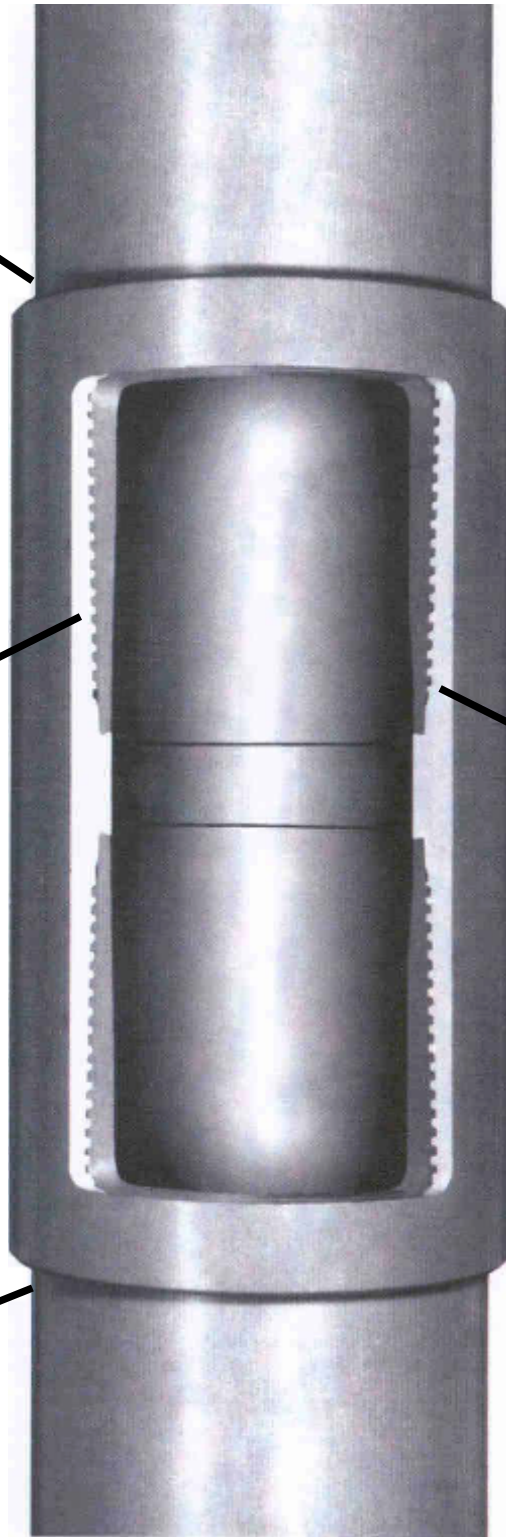
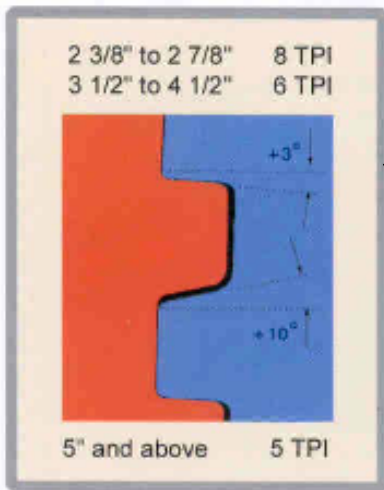
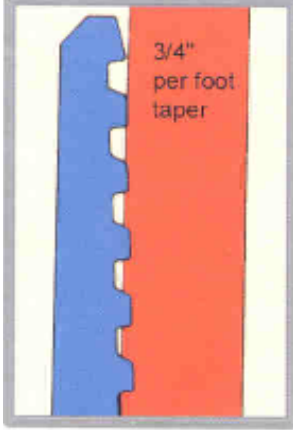
Grade		J55	K55	N80	L80	C90	C95	P110	Q125	150*
Yield Strength Yp (1000 psi)	Tubing	55	N/A	80	80	90	95	110	N/A	N/A
Tensile Strength Up	Tubing	75	N/A	100	95	100	105	125	N/A	N/A
Yield Strength Yp (1000 psi)	Casing	55	55	80	80	90	95	110	125	150
Tensile Strength Up	Casing	75	95	100	95	100	105	125	135	160

* 150 is not an API Grade



HSC PREMIUM CONNECTION

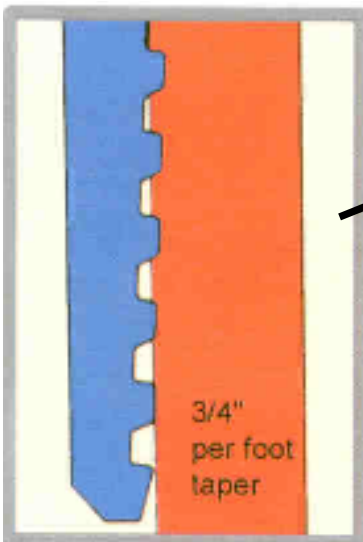
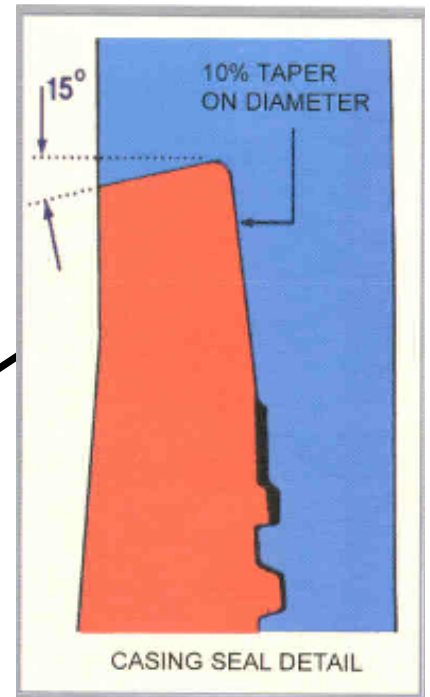
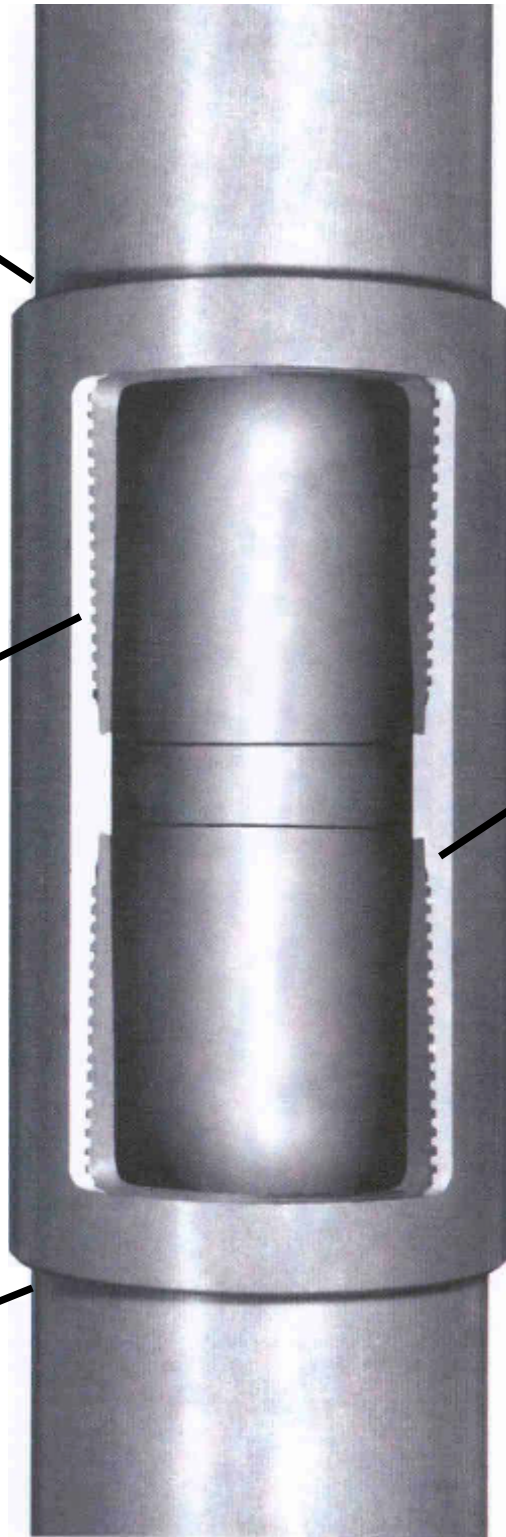
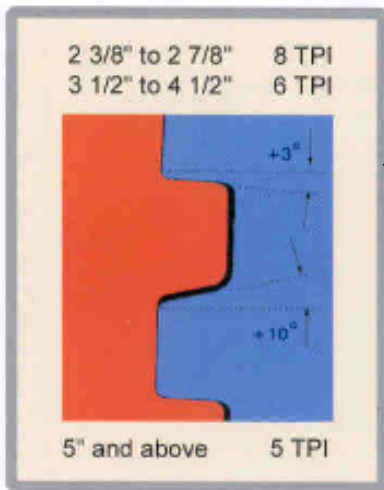
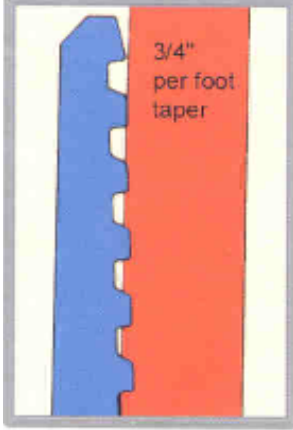
TUBING





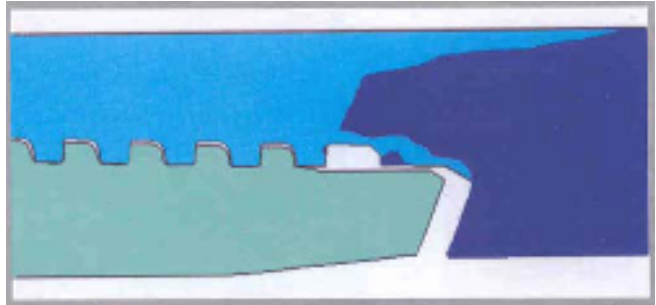
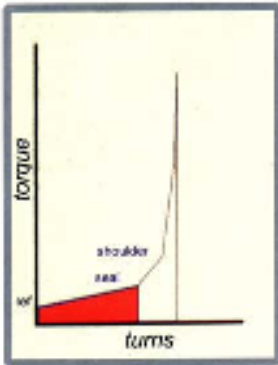
HSC PREMIUM CONNECTION

CASING

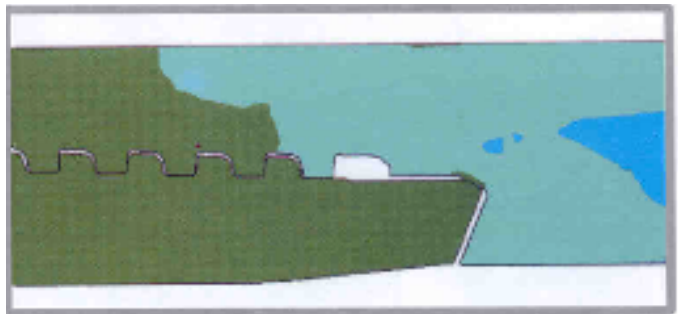
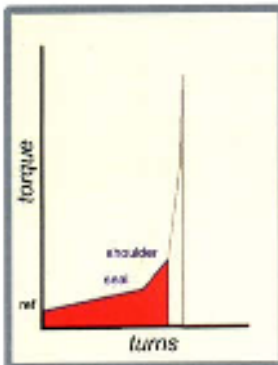




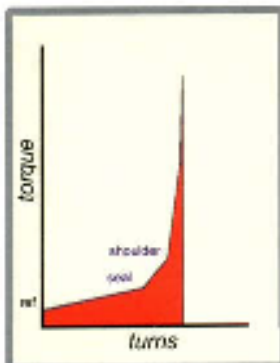
HSC TUBING MAKE-UP



Reference Torque + Thread Interference



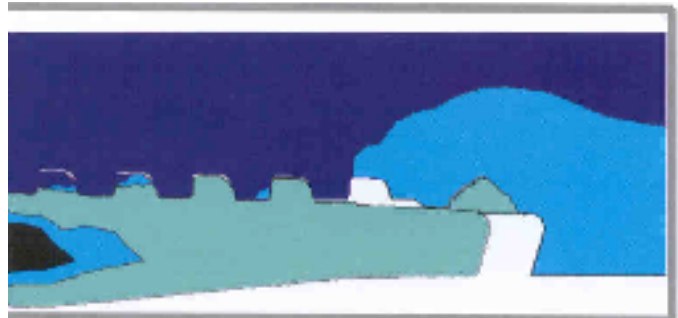
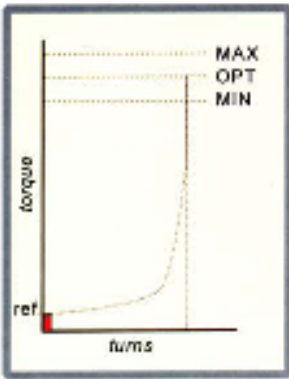
Seal Engagement



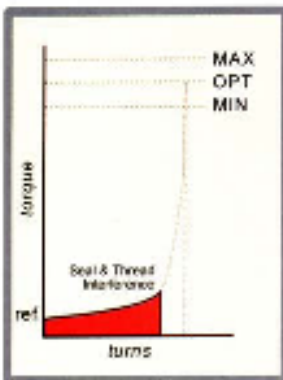
Fully Made-up with Pin Shouldering



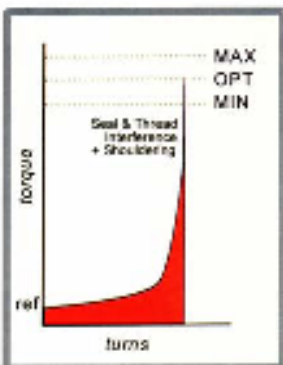
HSC CASING MAKE-UP



Reference Torque + First Stage Seal & Thread Interference



Second Stage Seal & Thread Interference up to shoulder

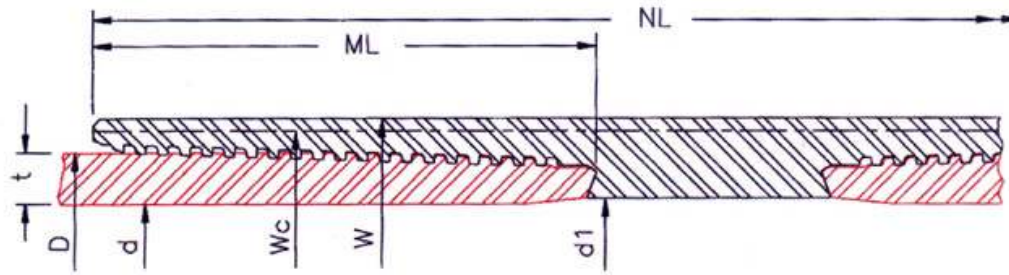


Fully Made-up with Pin Shouldering & Preloaded

TECHNICAL INFORMATION

TUBING

SIZE:	60.32 mm
NOMINAL WEIGHT:	6.85 kg/m
WALL THICKNESS:	4.83 mm
THREADS PER INCH:	8



P I P E B O D Y	OUTSIDE DIA.(mm)D	60.32	INSIDE DIA.(mm) d	50.67	DRIFT DIA. (mm)		48.29	PLAIN END WT (kg/m)			6.59
	GRADE			K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)			55.8	81.2	81.2	91.3	96.4	111.2	123.4	142.5
	INTERNAL YIELD PRESSURE (MPa)			53.1	77.2	77.2	86.9	91.7	106.2	120.7	144.8
	BODY YIELD STRENGTH (kN)			319	464	464	522	551	638	725	870
	ULTIMATE STRENGTH (kN)			551	580	551	580	609	725	783	928
	YIELD TORQUE (Nm)			4740	6890	6890	7750	8190	9480	10770	12920

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
	REGULAR	MINIMUM (Nm)	1420	1950	1950	2210	2210	2480	2820	3280	
		OPTIMUM (Nm)	1570	2160	2160	2450	2450	2750	3130	3630	
		MAXIMUM (Nm)	1720	2360	2360	2700	2700	3020	3440	3990	
	SPECIAL CLEARANCE	MINIMUM (Nm)	1270	1750	1750	1970	1970	2210	2510	2930	
		OPTIMUM (Nm)	1420	1950	1950	2210	2210	2480	2820	3280	
MAXIMUM (Nm)		1570	2160	2160	2450	2450	2750	3130	3630		

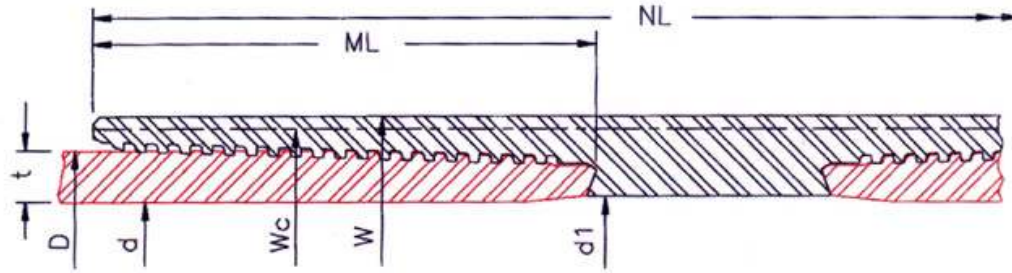
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		55.8	81.2	81.2	91.3	96.4	111.2	123.4	142.5	
	INTERNAL YIELD PRESSURE (MPa)		53.1	77.2	77.2	86.9	91.7	106.2	120.7	144.8	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		190	276	276	311	328	380	431	518	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		109	158	158	178	188	218	247	297	
	PARTING LOAD (kN)										
	REGULAR COUPLING O.D.		503	541	516	546	574	681	739	877	
	SPECIAL CLEARANCE COUPLING O.D.		429	451	429	451	474	564	610	722	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30° JOINT MUD DISPLACEMENT (m³)		
	REGULAR COUPLING		W	68.76	49.25	1.58		107		0.00785	
	SPECIAL CLEARANCE COUPLING		Wc	66.75	49.25	1.29		82		0.00782	
LENGTH OF COUPLING (mm)		NL	175.46								
MAKE UP LOSS (mm)		ML	63.86								

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TECHNICAL INFORMATION

TUBING

SIZE:	60.32 mm
NOMINAL WEIGHT:	7.59 kg/m
WALL THICKNESS:	5.54 mm
THREADS PER INCH:	8



PIPE BODY	OUTSIDE DIA.(mm)D	60.32	INSIDE DIA.(mm) d	49.25	DRIFT DIA. (mm)		46.86	PLAIN END WT (kg/m)		7.47
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		63.2	92.0	92.0	103.5	109.2	126.5	143.7	172.4
	INTERNAL YIELD PRESSURE (MPa)		60.9	88.6	88.6	99.7	105.2	121.8	138.4	166.1
	BODY YIELD STRENGTH (kN)		361	526	526	591	624	723	821	986
	ULTIMATE STRENGTH (kN)		624	657	624	657	690	821	887	1051
	YIELD TORQUE (Nm)		5240	7630	7630	8580	9060	10490	11920	14300

RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
MAKEUP	REGULAR	MINIMUM (Nm)	1420	1950	1950	2210	2210	2480	2820	3280
		OPTIMUM (Nm)	1570	2160	2160	2450	2450	2750	3130	3630
		MAXIMUM (Nm)	1720	2360	2360	2700	2700	3020	3440	3990
	SPECIAL CLEARANCE	MINIMUM (Nm)	1270	1750	1750	1970	1970	2210	2510	2930
		OPTIMUM (Nm)	1420	1950	1950	2210	2210	2480	2820	3280
		MAXIMUM (Nm)	1570	2160	2160	2450	2450	2750	3130	3630

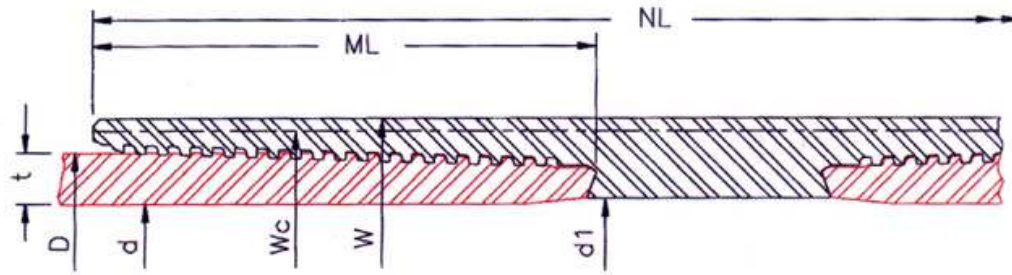
CONNECTION	COLLAPSE RESISTANCE (MPa)		63.2	92.0	92.0	103.5	109.2	126.5	143.7	172.4	
	INTERNAL YIELD PRESSURE (MPa)		60.9	88.6	88.6	99.7	105.2	121.8	138.4	166.1	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		220	320	320	360	380	440	500	600	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		109	158	158	178	188	218	247	297	
	PARTING LOAD (kN)										
	REGULAR COUPLING O.D.		570	613	584	619	650	772	837	993	
	SPECIAL CLEARANCE COUPLING O.D.		429	451	429	451	474	564	610	722	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30° JOINT MUD DISPLACEMENT (m³)		
	REGULAR COUPLING		W	69.49	49.25	1.69		103		0.00888	
	SPECIAL CLEARANCE COUPLING		Wc	66.75	49.25	1.29		72		0.00883	
LENGTH OF COUPLING (mm)		NL	175.46								
MAKE UP LOSS (mm)		ML	63.86								

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TECHNICAL INFORMATION

TUBING

SIZE:	60.32 mm
NOMINAL WEIGHT:	8.63 kg/m
WALL THICKNESS:	6.45 mm
THREADS PER INCH:	8



P I P E B O D Y	OUTSIDE DIA.(mm)D	60.32	INSIDE DIA.(mm) d	47.42	DRIFT DIA. (mm)	45.03	PLAIN END WT (kg/m)			8.56
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		72.4	105.4	105.4	118.5	125.1	144.9	164.6	197.6
	INTERNAL YIELD PRESSURE (MPa)		71.0	103.2	103.2	116.1	122.6	141.9	161.3	193.6
	BODY YIELD STRENGTH (kN)		414	602	602	678	715	828	941	1129
	ULTIMATE STRENGTH (kN)		715	753	715	753	791	941	1016	1205
	YIELD TORQUE (Nm)		5830	8480	8480	9550	10080	11670	13260	15910

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	1500	2030	2030	2390	2390	2660	2930	3440
		OPTIMUM (Nm)	1670	2250	2250	2640	2640	2940	3240	3820
		MAXIMUM (Nm)	1830	2470	2470	2900	2900	3230	3550	4200
	SPECIAL CLEARANCE	MINIMUM (Nm)	1340	1820	1820	2130	2130	2370	2620	3060
		OPTIMUM (Nm)	1500	2030	2030	2390	2390	2660	2930	3440
MAXIMUM (Nm)		1670	2250	2250	2640	2640	2940	3240	3820	

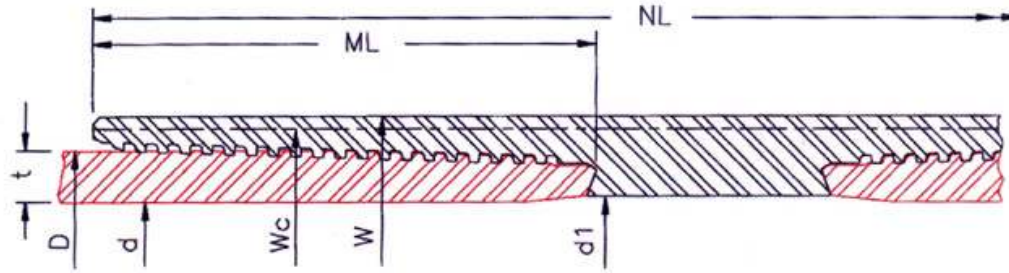
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		72.4	105.4	105.4	118.5	125.1	144.9	164.6	197.6
	INTERNAL YIELD PRESSURE (MPa)		71.0	103.2	103.2	116.1	122.6	141.9	161.3	193.6
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		272	396	396	445	470	544	618	742
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		190	276	276	311	328	380	431	518
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		653	702	669	709	744	884	959	1138
	SPECIAL CLEARANCE COUPLING O.D.		562	591	562	591	621	739	798	946
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	70.74	49.25	1.88		103		0.01017
	SPECIAL CLEARANCE COUPLING		Wc	68.76	49.25	1.58		83		0.01013
LENGTH OF COUPLING (mm)		NL	175.46							
MAKE UP LOSS (mm)		ML	63.86							

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TECHNICAL INFORMATION

TUBING

SIZE:	73.03 mm
NOMINAL WEIGHT:	9.52 kg/m
WALL THICKNESS:	5.51 mm
THREADS PER INCH:	8



P I P E B O D Y	OUTSIDE DIA.(mm)D	73.03	INSIDE DIA.(mm) d	62.00	DRIFT DIA. (mm)					59.61	PLAIN END WT (kg/m)		9.17
	GRADE	K55		N80	L80	C90	C95	P110	Q125	150			
	COLLAPSE RESISTANCE (MPa)	52.9		77.0	77.0	85.4	89.2	100.3	110.8	126.9			
	INTERNAL YIELD PRESSURE (MPa)	50.1		72.9	72.9	82.0	86.5	100.2	113.8	136.6			
	BODY YIELD STRENGTH (kN)	443		645	645	725	766	887	1008	1209			
	ULTIMATE STRENGTH (kN)	766		806	766	806	846	1008	1088	1290			
	YIELD TORQUE (Nm)	8040		11700	11700	13160	13890	16080	18280	21930			

RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
M A K E U P	REGULAR	MINIMUM (Nm)	2130	2930	2930	3440	3440	3890	4330	5120
		OPTIMUM (Nm)	2360	3240	3240	3820	3820	4310	4800	5690
		MAXIMUM (Nm)	2590	3550	3550	4200	4200	4730	5270	6260
	SPECIAL CLEARANCE	MINIMUM (Nm)	1900	2620	2620	3060	3060	3470	3850	4560
		OPTIMUM (Nm)	2130	2930	2930	3440	3440	3890	4330	5120
		MAXIMUM (Nm)	2360	3240	3240	3820	3820	4310	4800	5690

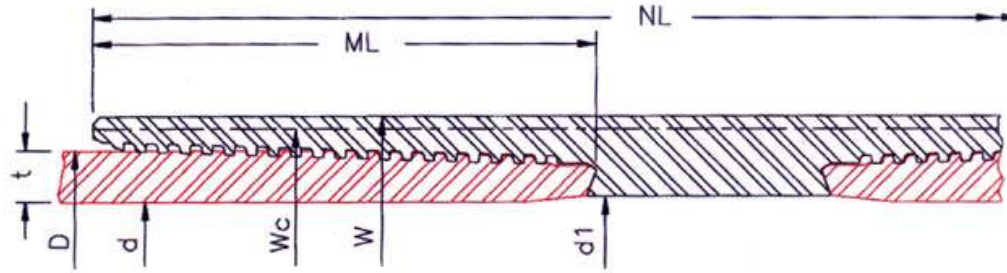
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		52.9	77.0	77.0	85.4	89.2	100.3	110.8	126.9	
	INTERNAL YIELD PRESSURE (MPa)		50.1	72.9	72.9	82.0	86.5	100.2	113.8	136.6	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		265	385	385	433	457	529	601	722	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		165	240	240	270	285	330	375	450	
	PARTING LOAD (kN)										
	REGULAR COUPLING O.D.		692	747	713	756	794	943	1024	1215	
	SPECIAL CLEARANCE COUPLING O.D.		611	643	611	643	675	803	868	1028	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)		
	REGULAR COUPLING		W	82.30	60.55	2.29		106		0.01092	
	SPECIAL CLEARANCE COUPLING		Wc	80.24	60.55	1.89		84		0.01087	
LENGTH OF COUPLING (mm)		NL	191.47								
MAKE UP LOSS (mm)		ML	71.86								

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TECHNICAL INFORMATION

TUBING

SIZE:	73.03 mm
NOMINAL WEIGHT:	11.61 kg/m
WALL THICKNESS:	7.01 mm
THREADS PER INCH:	8



PIPE BODY	OUTSIDE DIA.(mm)D	73.03	INSIDE DIA.(mm) d	59.00	DRIFT DIA. (mm)	56.62	PLAIN END WT (kg/m)			11.40	
	GRADE			K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)			65.8	95.7	95.7	107.7	113.7	131.6	149.6	179.5
	INTERNAL YIELD PRESSURE (MPa)			63.7	92.7	92.7	104.2	110.0	127.4	144.8	173.7
	BODY YIELD STRENGTH (kN)			551	802	802	902	952	1103	1253	1504
	ULTIMATE STRENGTH (kN)			952	1002	952	1002	1053	1253	1353	1604
	YIELD TORQUE (Nm)			9610	13970	13970	15720	16590	19210	21830	26200

RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
MAKEUP	REGULAR	MINIMUM (Nm)	2300	3090	3090	3540	3540	4070	4510	5300
		OPTIMUM (Nm)	2550	3430	3430	3920	3920	4510	5000	5880
		MAXIMUM (Nm)	2790	3770	3770	4300	4300	4960	5490	6470
	SPECIAL CLEARANCE	MINIMUM (Nm)	2060	2750	2750	3160	3160	3620	4030	4720
		OPTIMUM (Nm)	2300	3090	3090	3540	3540	4070	4510	5300
		MAXIMUM (Nm)	2550	3430	3430	3920	3920	4510	5000	5880

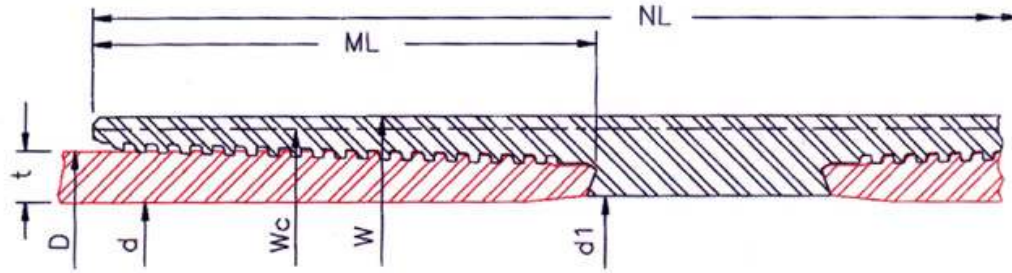
CONNECTION	COLLAPSE RESISTANCE (MPa)		65.8	95.7	95.7	107.7	113.7	131.6	149.6	179.5	
	INTERNAL YIELD PRESSURE (MPa)		63.7	92.7	92.7	104.2	110.0	127.4	144.8	173.7	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		387	563	563	634	669	774	880	1056	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		307	447	447	503	531	614	698	838	
	PARTING LOAD (kN)										
	REGULAR COUPLING O.D.		860	929	887	940	988	1172	1273	1511	
	SPECIAL CLEARANCE COUPLING O.D.		844	888	844	888	933	1110	1199	1421	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)		
	REGULAR COUPLING		W	84.76	60.55	2.78		108		0.01357	
	SPECIAL CLEARANCE COUPLING		Wc	83.16	60.55	2.46		93		0.01353	
LENGTH OF COUPLING (mm)		NL	191.47								
MAKE UP LOSS (mm)		ML	71.86								

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TECHNICAL INFORMATION

TUBING

SIZE:	73.03 mm
NOMINAL WEIGHT:	12.80 kg/m
WALL THICKNESS:	7.82 mm
THREADS PER INCH:	8



PIPE BODY	OUTSIDE DIA.(mm)D	73.03	INSIDE DIA.(mm) d	57.38	DRIFT DIA. (mm)		54.99	PLAIN END WT (kg/m)			12.56
	GRADE			K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)			72.5	105.5	105.5	118.7	125.3	145.1	164.9	197.9
	INTERNAL YIELD PRESSURE (MPa)			71.1	103.4	103.4	116.3	122.8	142.2	161.6	193.9
	BODY YIELD STRENGTH (kN)			608	884	884	994	1050	1215	1381	1657
	ULTIMATE STRENGTH (kN)			1050	1105	1050	1105	1160	1381	1492	1768
	YIELD TORQUE (Nm)			10360	15070	15070	16950	17890	20720	23540	28250

MAKEUP	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
	REGULAR	MINIMUM (Nm)	2560	3440	3440	3970	3970	4600	5120	6010	
		OPTIMUM (Nm)	2850	3820	3820	4410	4410	5100	5690	6670	
		MAXIMUM (Nm)	3130	4200	4200	4840	4840	5600	6260	7330	
	SPECIAL CLEARANCE	MINIMUM (Nm)	2280	3060	3060	3540	3540	4090	4560	5340	
		OPTIMUM (Nm)	2560	3440	3440	3970	3970	4600	5120	6010	
MAXIMUM (Nm)		2850	3820	3820	4410	4410	5100	5690	6670		

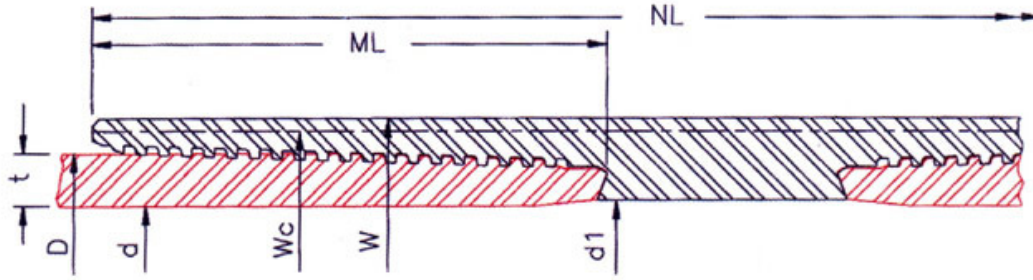
CONNECTION	COLLAPSE RESISTANCE (MPa)		72.5	105.5	105.5	118.7	125.3	145.1	164.9	197.9	
	INTERNAL YIELD PRESSURE (MPa)		71.1	103.4	103.4	116.3	122.8	142.2	161.6	193.9	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		422	614	614	691	729	844	959	1151	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		307	447	447	503	531	614	698	838	
	PARTING LOAD (kN)										
	REGULAR COUPLING O.D.		948	1024	978	1036	1089	1292	1403	1665	
	SPECIAL CLEARANCE COUPLING O.D.		844	888	844	888	933	1110	1199	1421	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)		
	REGULAR COUPLING		W	85.45	59.26	2.96		104		0.01494	
	SPECIAL CLEARANCE COUPLING		Wc	83.16	59.26	2.51		85		0.01489	
LENGTH OF COUPLING (mm)		NL	191.47								
MAKE UP LOSS (mm)		ML	71.86								

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TECHNICAL INFORMATION

TUBING

SIZE:	88.90 mm
NOMINAL WEIGHT:	11.46 kg/m
WALL THICKNESS:	5.49 mm
THREADS PER INCH:	6



PIPE BODY	OUTSIDE DIA.(mm)D	88.90	INSIDE DIA.(mm) d	77.93	DRIFT DIA. (mm)	74.75	PLAIN END WT (kg/m)			11.28
		GRADE		K55	N80	L80	C90	C95	P110	Q125
	COLLAPSE RESISTANCE (MPa)		41.2	54.2	54.2	58.9	61.0	67.1	72.4	79.4
	INTERNAL YIELD PRESSURE (MPa)		41.0	59.6	59.6	67.0	70.7	81.9	93.1	111.7
	BODY YIELD STRENGTH (kN)		545	793	793	892	942	1090	1239	1487
	ULTIMATE STRENGTH (kN)		942	991	942	991	1041	1239	1338	1586
	YIELD TORQUE (Nm)		12370	17990	17990	20240	21370	24740	28120	33740

RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0

MAKEUP		MINIMUM (Nm)	2820	3800	3800	4420	4420	4950	5570	6450
		REGULAR	OPTIMUM (Nm)	3130	4220	4220	4910	4910	5490	6180
	MAXIMUM (Nm)	3440	4640	4640	5400	5400	6030	6790	7860	
UP		MINIMUM (Nm)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	SPECIAL CLEARANCE	OPTIMUM (Nm)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		MAXIMUM (Nm)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

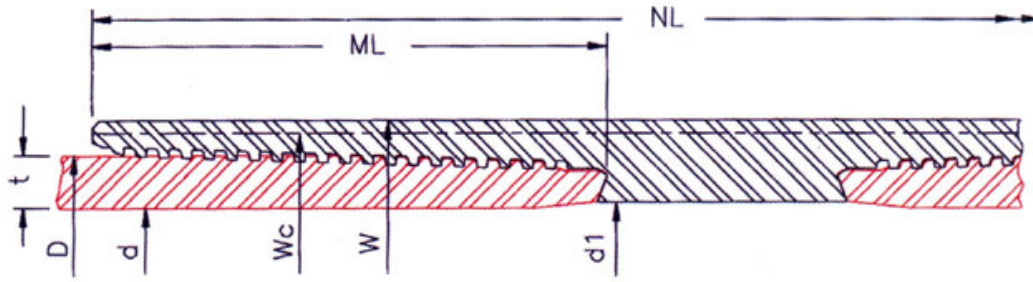
	COLLAPSE RESISTANCE (MPa)		41.2	54.2	54.2	58.9	61.0	67.1	72.4	79.4
	INTERNAL YIELD PRESSURE (MPa)		41.0	59.6	59.6	67.0	70.7	81.9	93.1	111.7
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		281	408	408	459	485	561	638	765
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
CONNECTION			PARTING LOAD (kN)							
		REGULAR COUPLING O.D.	839	912	872	925	972	1153	1254	1488
		SPECIAL CLEARANCE COUPLING O.D.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30° JOINT MUD DISPLACEMENT (m³)	
		REGULAR COUPLING	W	97.56	76.76	2.92	104		0.01343	
	SPECIAL CLEARANCE COUPLING	Wc	n/a	76.76	n/a	n/a		n/a		
	LENGTH OF COUPLING (mm)	NL	214.45							
	MAKE UP LOSS (mm)	ML	83.16							

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TECHNICAL INFORMATION

TUBING

SIZE:	88.90 mm
NOMINAL WEIGHT:	13.69 kg/m
WALL THICKNESS:	6.45 mm
THREADS PER INCH:	6



P I P E	B O D Y	OUTSIDE DIA.(mm)D	88.90	INSIDE DIA.(mm) d	76.00	DRIFT DIA. (mm)	72.82	PLAIN END WT (kg/m)			13.11
		GRADE	K55	N80	L80	C90	C95	P110	Q125	150	
		COLLAPSE RESISTANCE (MPa)	51.0	72.6	72.6	79.8	83.3	93.3	102.7	116.8	
		INTERNAL YIELD PRESSURE (MPa)	48.2	70.1	70.1	78.8	83.2	96.3	109.5	131.3	
		BODY YIELD STRENGTH (kN)	634	922	922	1037	1095	1267	1440	1728	
		ULTIMATE STRENGTH (kN)	1095	1152	1095	1152	1210	1440	1555	1843	
		YIELD TORQUE (Nm)	14070	20470	20470	23030	24310	28150	31990	38380	

RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0

M A K E U P	REGULAR	MINIMUM (Nm)	2930	3970	3970	4600	4600	5220	5830	6710
			OPTIMUM (Nm)	3240	4410	4410	5100	5100	5790	6470
	MAXIMUM (Nm)	3550	4840	4840	5600	5600	6360	7100	8200	
	SPECIAL CLEARANCE	MINIMUM (Nm)	2620	3540	3540	4090	4090	4650	5190	5970
		OPTIMUM (Nm)	2930	3970	3970	4600	4600	5220	5830	6710
		MAXIMUM (Nm)	3240	4410	4410	5100	5100	5790	6470	7460

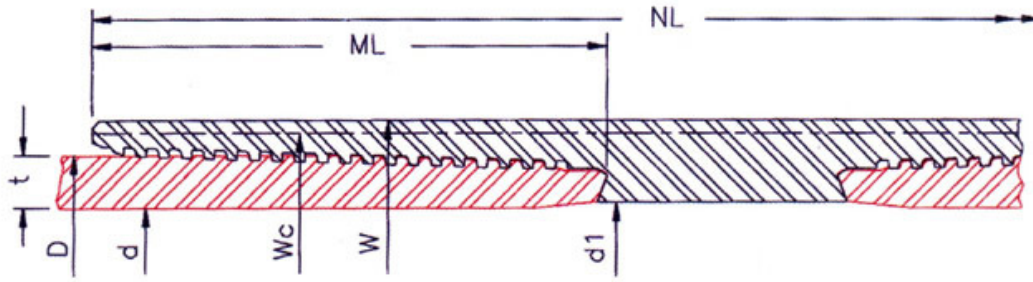
		COLLAPSE RESISTANCE (MPa)	51.0	72.6	72.6	79.8	83.3	93.3	102.7	116.8
		INTERNAL YIELD PRESSURE (MPa)	48.2	70.1	70.1	78.8	83.2	96.3	109.5	131.3
		MAXIMUM LOAD OF REG. COUPLING FACE (kN)	368	536	536	603	636	737	837	1004
		MAXIMUM LOAD OF S.C. COUPLING FACE (kN)	225	327	327	368	388	449	511	613
C O N N E C T I O N			PARTING LOAD (kN)							
		REGULAR COUPLING O.D.	976	1060	1013	1076	1130	1341	1457	1730
		SPECIAL CLEARANCE COUPLING O.D.	840	884	840	884	928	1105	1193	1414
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)	JOINT EFFICENCY (%)	30° JOINT MUD DISPLACEMENT (m³)			
		REGULAR COUPLING	W	99.06	76.76	3.31	103	0.01560		
		SPECIAL CLEARANCE COUPLING	Wc	96.60	76.76	2.68	81	0.01552		
	LENGTH OF COUPLING (mm)	NL	214.45							
	MAKE UP LOSS (mm)	ML	83.16							

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TECHNICAL INFORMATION

TUBING

SIZE:	88.90 mm
NOMINAL WEIGHT:	15.18 kg/m
WALL THICKNESS:	7.34 mm
THREADS PER INCH:	6



P I P E B O D Y	OUTSIDE DIA.(mm)D	88.90	INSIDE DIA.(mm) d	74.22	DRIFT DIA. (mm)					71.04	PLAIN END WT (kg/m)			14.75
		GRADE		K55	N80	L80	C90	C95	P110	Q125	150			
	COLLAPSE RESISTANCE (MPa)		57.5	83.6	83.6	94.0	99.2	114.9	130.6	151.3				
	INTERNAL YIELD PRESSURE (MPa)		54.8	79.7	79.7	89.7	94.6	109.6	124.5	149.4				
	BODY YIELD STRENGTH (kN)		713	1037	1037	1167	1232	1426	1621	1945				
	ULTIMATE STRENGTH (kN)		1232	1297	1232	1297	1362	1621	1751	2075				
	YIELD TORQUE (Nm)		15530	22590	22590	25410	26830	31060	35300	42360				

RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0

M A K E U P	REGULAR	MINIMUM (Nm)	3280	4510	4510	5220	5220	5920	6620	7780
		OPTIMUM (Nm)	3630	5000	5000	5790	5790	6580	7350	8640
		MAXIMUM (Nm)	3990	5490	5490	6360	6360	7230	8080	9490
		MINIMUM (Nm)	2930	4030	4030	4650	4650	5270	5880	6930
	SPECIAL CLEARANCE	OPTIMUM (Nm)	3280	4510	4510	5220	5220	5920	6620	7780
		MAXIMUM (Nm)	3630	5000	5000	5790	5790	6580	7350	8640

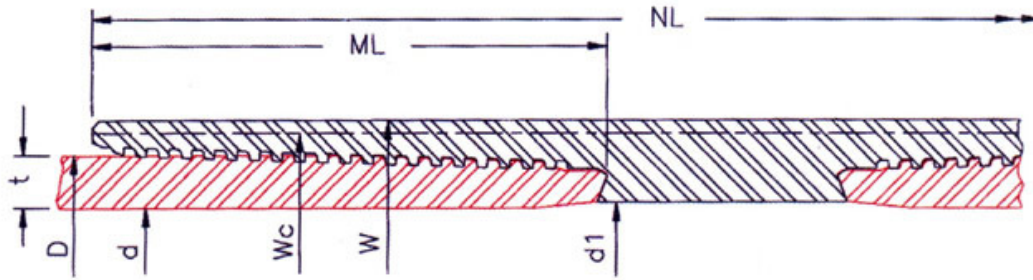
	COLLAPSE RESISTANCE (MPa)		57.5	83.6	83.6	94.0	99.2	114.9	130.6	151.3	
	INTERNAL YIELD PRESSURE (MPa)		54.8	79.7	79.7	89.7	94.6	109.6	124.5	149.4	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		460	670	670	753	795	921	1046	1256	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		312	453	453	510	538	623	708	850	
C O N N E C T I O N			PARTING LOAD (kN)								
		REGULAR COUPLING O.D.	1098	1193	1141	1211	1272	1509	1640	1947	
	SPECIAL CLEARANCE COUPLING O.D.	982	1034	982	1034	1086	1293	1396	1655		
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICENCY (%)		30° JOINT MUD DISPLACEMENT (m³)		
	REGULAR COUPLING	W	100.61	75.74	3.77		105		0.01757		
	SPECIAL CLEARANCE COUPLING	Wc	98.09	75.74	3.11		84		0.01749		
	LENGTH OF COUPLING (mm)	NL	214.45								
	MAKE UP LOSS (mm)	ML	83.16								

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TECHNICAL INFORMATION

TUBING

SIZE:	88.90 mm
NOMINAL WEIGHT:	18.90 kg/m
WALL THICKNESS:	9.52 mm
THREADS PER INCH:	6



P I P E B O D Y	OUTSIDE DIA.(mm)D	88.90	INSIDE DIA.(mm) d	69.85	DRIFT DIA. (mm)	66.68	PLAIN END WT (kg/m)			18.63
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		72.6	105.5	105.5	118.7	125.3	145.1	164.9	197.9
	INTERNAL YIELD PRESSURE (MPa)		71.1	103.4	103.4	116.3	122.8	142.2	161.6	193.9
	BODY YIELD STRENGTH (kN)		901	1310	1310	1474	1556	1801	2047	2456
	ULTIMATE STRENGTH (kN)		1556	1638	1556	1638	1720	2047	2211	2620
YIELD TORQUE (Nm)		18690	27190	27190	30590	32290	37380	42480	50980	

RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0

M A K E U P	REGULAR	MINIMUM (Nm)	3890	5220	5220	6010	6010	6810	7690	8830
		OPTIMUM (Nm)	4310	5790	5790	6670	6670	7550	8530	9800
		MAXIMUM (Nm)	4730	6360	6360	7330	7330	8300	9370	10780
	SPECIAL CLEARANCE	MINIMUM (Nm)	3470	4650	4650	5340	5340	6060	6850	7850
		OPTIMUM (Nm)	3890	5220	5220	6010	6010	6810	7690	8830
		MAXIMUM (Nm)	4310	5790	5790	6670	6670	7550	8530	9800

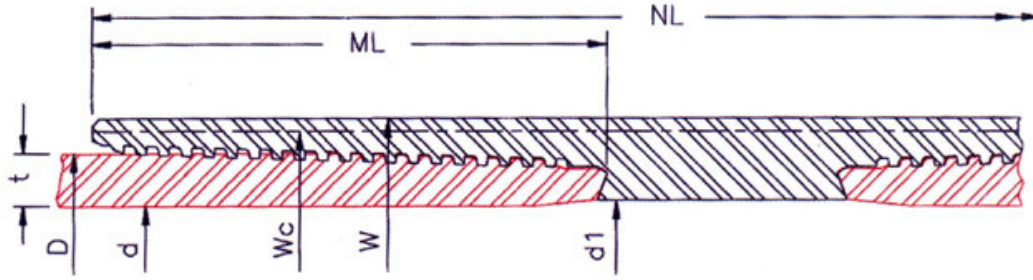
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		72.6	105.5	105.5	118.7	125.3	145.1	164.9	197.9	
	INTERNAL YIELD PRESSURE (MPa)		71.1	103.4	103.4	116.3	122.8	142.2	161.6	193.9	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		643	935	935	1052	1110	1285	1461	1753	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		460	670	670	753	795	921	1046	1256	
	PARTING LOAD (kN)										
	REGULAR COUPLING O.D.		1387	1507	1440	1529	1606	1906	2071	2459	
	SPECIAL CLEARANCE COUPLING O.D.		1227	1291	1227	1291	1356	1614	1743	2066	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICENCY (%)		30° JOINT MUD DISPLACEMENT (m³)		
	REGULAR COUPLING	W	103.61	74.55	4.64		103		0.02216		
	SPECIAL CLEARANCE COUPLING	Wc	100.61	74.55	3.83		83		0.02206		
LENGTH OF COUPLING (mm)	NL	214.45									
MAKE UP LOSS (mm)	ML	83.16									

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TECHNICAL INFORMATION

TUBING

SIZE:	88.90 mm
NOMINAL WEIGHT:	20.39 kg/m
WALL THICKNESS:	10.49 mm
THREADS PER INCH:	6



P I P E B O D Y	OUTSIDE DIA.(mm)D	88.90	INSIDE DIA.(mm) d	67.92	DRIFT DIA. (mm)	64.74	PLAIN END WT (kg/m)			20.27
		GRADE	K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)	78.9	114.8	114.8	129.2	136.3	157.9	179.4	215.3	
	INTERNAL YIELD PRESSURE (MPa)	78.3	113.9	113.9	128.1	135.3	156.6	178.0	213.6	
	BODY YIELD STRENGTH (kN)	980	1425	1425	1603	1693	1960	2227	2672	
	ULTIMATE STRENGTH (kN)	1693	1782	1693	1782	1871	2227	2405	2851	
	YIELD TORQUE (Nm)	19910	28960	28960	32590	34400	39830	45260	54310	

RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0

M A K E U P	REGULAR	MINIMUM (Nm)	4510	6100	6100	7080	7080	8040	9270	10630
		OPTIMUM (Nm)	5000	6770	6770	7850	7850	8920	10290	11810
	MAXIMUM (Nm)	5490	7430	7430	8620	8620	9800	11310	12990	
	SPECIAL CLEARANCE	MINIMUM (Nm)	4070	5490	5490	6370	6370	7240	8350	9450
		OPTIMUM (Nm)	4500	6090	6090	7060	7060	8030	9260	10630
		MAXIMUM (Nm)	4950	6680	6680	7760	7760	8830	10180	11810

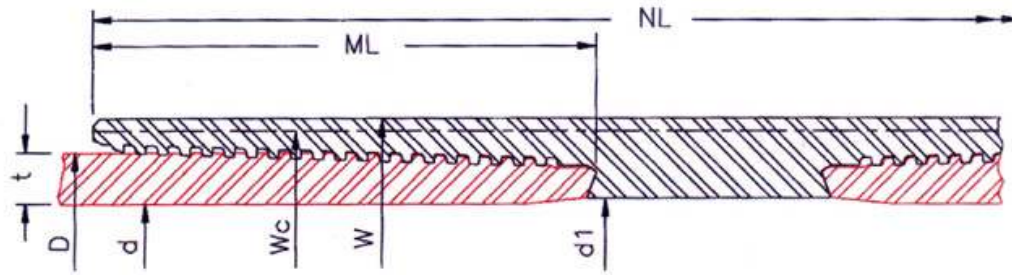
	COLLAPSE RESISTANCE (MPa)	78.9	114.8	114.8	129.2	136.3	157.9	179.4	215.3	
	INTERNAL YIELD PRESSURE (MPa)	78.3	113.9	113.9	128.1	135.3	156.6	178.0	213.6	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)	736	1070	1070	1204	1271	1472	1672	2007	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)	590	858	858	965	1018	1179	1340	1608	
C O N N E C T I O N	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.	1508	1640	1567	1663	1748	2073	2253	2675	
	SPECIAL CLEARANCE COUPLING O.D.	1439	1514	1439	1514	1590	1893	2044	2423	
		OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)	JOINT EFFICIENCY (%)	30° JOINT MUD DISPLACEMENT (m³)				
	REGULAR COUPLING	W	105.11	72.24	5.09	104	0.02412			
	SPECIAL CLEARANCE COUPLING	Wc	102.74	72.24	4.44	90	0.02404			
	LENGTH OF COUPLING (mm)	NL	214.45							
	MAKE UP LOSS (mm)	ML	83.16							

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TECHNICAL INFORMATION

TUBING

SIZE:	101.60 mm
NOMINAL WEIGHT:	14.14 kg/m
WALL THICKNESS:	5.74 mm
THREADS PER INCH:	6



PIPE BODY	OUTSIDE DIA.(mm)D	101.60	INSIDE DIA.(mm) d	90.12	DRIFT DIA. (mm)		86.94	PLAIN END WT (kg/m)		13.56
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		35.3	45.4	45.4	48.8	50.4	54.5	57.8	61.4
	INTERNAL YIELD PRESSURE (MPa)		37.5	54.5	54.5	61.4	64.8	75.0	85.2	102.3
	BODY YIELD STRENGTH (kN)		656	954	954	1073	1132	1311	1490	1788
	ULTIMATE STRENGTH (kN)		1132	1192	1132	1192	1251	1490	1609	1907
	YIELD TORQUE (Nm)		17180	24980	24980	28110	29670	34350	39040	46850

MAKEUP	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	3540	4870	4870	5650	5650	6360	7080	8300
		OPTIMUM (Nm)	3920	5400	5400	6280	6280	7060	7850	9220
		MAXIMUM (Nm)	4300	5920	5920	6900	6900	7770	8620	10140
	SPECIAL CLEARANCE	MINIMUM (Nm)	3190	4380	4380	5080	5080	5720	6370	7470
		OPTIMUM (Nm)	3530	4850	4850	5650	5650	6360	7060	8300
MAXIMUM (Nm)		3860	5330	5330	6210	6210	7000	7760	9120	

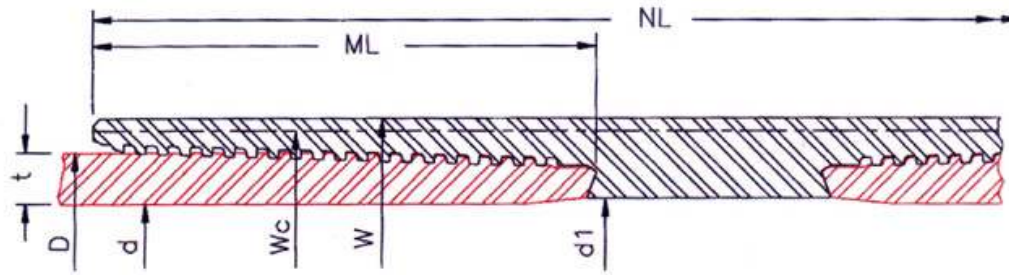
CONNECTION	COLLAPSE RESISTANCE (MPa)		35.3	45.4	45.4	48.8	50.4	54.5	57.8	61.4
	INTERNAL YIELD PRESSURE (MPa)		37.5	54.5	54.5	61.4	64.8	75.0	85.2	102.3
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		330	480	480	539	569	659	749	899
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		138	201	201	227	239	277	315	378
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		998	1091	1043	1109	1165	1381	1503	1784
	SPECIAL CLEARANCE COUPLING O.D.		804	847	804	847	889	1058	1143	1355
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	110.44	88.95	3.63		104		0.01616
	SPECIAL CLEARANCE COUPLING		Wc	107.49	88.95	2.72		75		0.01605
LENGTH OF COUPLING (mm)		NL	227.46							
MAKE UP LOSS (mm)		ML	89.61							

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TECHNICAL INFORMATION

TUBING

SIZE:	101.60 mm
NOMINAL WEIGHT:	16.22 kg/m
WALL THICKNESS:	6.65 mm
THREADS PER INCH:	6



PIPE BODY	OUTSIDE DIA.(mm)D	101.60	INSIDE DIA.(mm) d	88.29	DRIFT DIA. (mm)		85.12	PLAIN END WT (kg/m)		15.57	
	GRADE			K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)			45.5	60.7	60.7	66.2	68.8	76.2	82.9	92.4
	INTERNAL YIELD PRESSURE (MPa)			43.5	63.2	63.2	71.1	75.1	86.9	98.8	118.5
	BODY YIELD STRENGTH (kN)			753	1095	1095	1232	1300	1505	1711	2053
	ULTIMATE STRENGTH (kN)			1300	1369	1300	1369	1437	1711	1848	2190
	YIELD TORQUE (Nm)			19370	28180	28180	31700	33460	38750	44030	52840

MAKEUP	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	3710	5030	5030	5830	5830	6620	7320	8570
		OPTIMUM (Nm)	4120	5590	5590	6470	6470	7350	8130	9520
		MAXIMUM (Nm)	4530	6140	6140	7100	7100	8080	8950	10470
	SPECIAL CLEARANCE	MINIMUM (Nm)	3310	4470	4470	5190	5190	5880	6510	7620
		OPTIMUM (Nm)	3710	5030	5030	5830	5830	6620	7320	8570
MAXIMUM (Nm)		4120	5590	5590	6470	6470	7350	8130	9520	

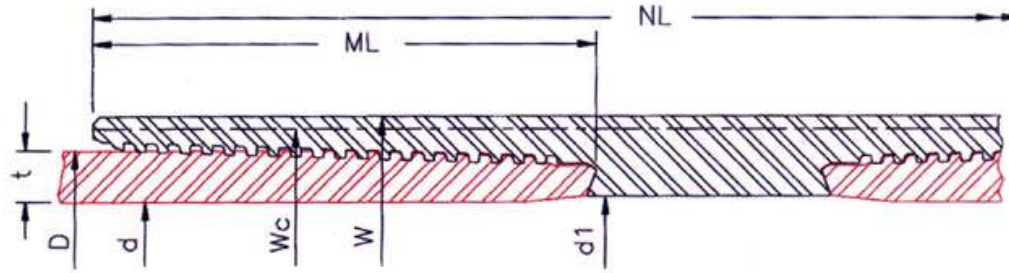
CONNECTION	COLLAPSE RESISTANCE (MPa)		45.5	60.7	60.7	66.2	68.8	76.2	82.9	92.4
	INTERNAL YIELD PRESSURE (MPa)		43.5	63.2	63.2	71.1	75.1	86.9	98.8	118.5
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		429	624	624	702	741	858	975	1170
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		295	429	429	482	509	589	670	804
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		1146	1252	1198	1273	1338	1586	1726	2049
	SPECIAL CLEARANCE COUPLING O.D.		1061	1117	1061	1117	1172	1396	1507	1787
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	111.94	88.95	4.09		104		0.01855
	SPECIAL CLEARANCE COUPLING		Wc	109.91	88.95	3.46		86		0.01847
LENGTH OF COUPLING (mm)		NL	227.46							
MAKE UP LOSS (mm)		ML	89.61							

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TECHNICAL INFORMATION

TUBING

SIZE:	101.60 mm
NOMINAL WEIGHT:	19.64 kg/m
WALL THICKNESS:	8.38 mm
THREADS PER INCH:	6



P I P E B O D Y	OUTSIDE DIA.(mm)D	101.60	INSIDE DIA.(mm) d	84.84	DRIFT DIA. (mm)		81.66	PLAIN END WT (kg/m)		19.24
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		57.4	83.5	83.5	93.9	99.2	114.8	130.4	151.1
	INTERNAL YIELD PRESSURE (MPa)		54.7	79.6	79.6	89.6	94.6	109.5	124.4	149.3
	BODY YIELD STRENGTH (kN)		931	1354	1354	1523	1608	1862	2116	2539
	ULTIMATE STRENGTH (kN)		1608	1692	1608	1692	1777	2116	2285	2708
	YIELD TORQUE (Nm)		23170	33700	33700	37910	40020	46340	52650	63190

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	4240	5830	5830	6710	6710	7590	8570	10130
		OPTIMUM (Nm)	4700	6470	6470	7460	7460	8430	9520	11250
		MAXIMUM (Nm)	5170	7100	7100	8200	8200	9270	10470	12380
	SPECIAL CLEARANCE	MINIMUM (Nm)	3780	5190	5190	5970	5970	6750	7620	9000
		OPTIMUM (Nm)	4240	5830	5830	6710	6710	7590	8570	10130
MAXIMUM (Nm)		4700	6470	6470	7460	7460	8430	9520	11250	

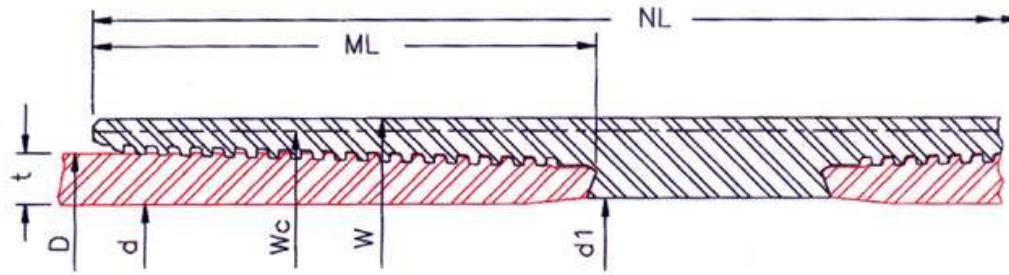
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		57.4	83.5	83.5	93.9	99.2	114.8	130.4	151.1
	INTERNAL YIELD PRESSURE (MPa)		54.7	79.6	79.6	89.6	94.6	109.5	124.4	149.3
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		616	896	896	1008	1064	1232	1400	1680
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		360	523	523	589	622	720	818	981
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		1418	1549	1481	1574	1654	1961	2134	2534
	SPECIAL CLEARANCE COUPLING O.D.		1168	1229	1168	1229	1291	1536	1659	1967
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	114.71	88.06	5.02		104		0.02293
	SPECIAL CLEARANCE COUPLING		Wc	110.90	88.06	3.82		76		0.02278
LENGTH OF COUPLING (mm)		NL	227.46							
MAKE UP LOSS (mm)		ML	89.61							

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TECHNICAL INFORMATION

TUBING

SIZE:	101.60 mm
NOMINAL WEIGHT:	22.02 kg/m
WALL THICKNESS:	9.65 mm
THREADS PER INCH:	6



P I P E B O D Y	OUTSIDE DIA.(mm)D	101.60	INSIDE DIA.(mm) d	82.30	DRIFT DIA. (mm)	79.12	PLAIN END WT (kg/m)			21.86
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		65.2	94.8	94.8	106.7	112.6	130.4	148.2	177.8
	INTERNAL YIELD PRESSURE (MPa)		63.0	91.7	91.7	103.2	108.9	126.1	143.3	171.9
	BODY YIELD STRENGTH (kN)		1057	1538	1538	1730	1826	2115	2403	2884
	ULTIMATE STRENGTH (kN)		1826	1922	1826	1922	2018	2403	2595	3076
	YIELD TORQUE (Nm)		25680	37350	37350	42020	44350	51350	58360	70030

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	5300	7320	7320	8470	8470	9720	11050	13060
		OPTIMUM (Nm)	5880	8130	8130	9410	9410	10790	12270	14510
		MAXIMUM (Nm)	6470	8950	8950	10340	10340	11860	13490	15960
	SPECIAL CLEARANCE	MINIMUM (Nm)	4770	6590	6590	7630	7630	8750	9950	11610
		OPTIMUM (Nm)	5300	7320	7320	8470	8470	9710	11050	13060
MAXIMUM (Nm)		5820	8050	8050	9310	9310	10680	12150	14510	

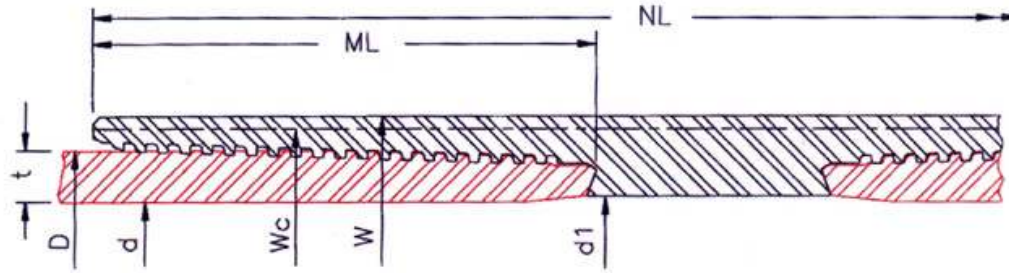
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		65.2	94.8	94.8	106.7	112.6	130.4	148.2	177.8
	INTERNAL YIELD PRESSURE (MPa)		63.0	91.7	91.7	103.2	108.9	126.1	143.3	171.9
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		774	1125	1125	1266	1336	1547	1758	2110
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		535	778	778	875	924	1069	1215	1458
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		1610	1759	1683	1788	1879	2228	2424	2878
	SPECIAL CLEARANCE COUPLING O.D.		1455	1531	1455	1531	1608	1914	2067	2450
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	116.99	85.24	5.89		106		0.02607
	SPECIAL CLEARANCE COUPLING		Wc	113.51	85.24	4.76		84		0.02593
LENGTH OF COUPLING (mm)		NL	227.46							
MAKE UP LOSS (mm)		ML	89.61							

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TECHNICAL INFORMATION

TUBING

SIZE:	101.60 mm
NOMINAL WEIGHT:	24.55 kg/m
WALL THICKNESS:	10.92 mm
THREADS PER INCH:	6



P I P E B O D Y	OUTSIDE DIA.(mm)D	101.60	INSIDE DIA.(mm) d	79.76	DRIFT DIA. (mm)		76.58	PLAIN END WT (kg/m)		24.39	
	GRADE			K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)			72.8	105.8	105.8	119.1	125.7	145.5	165.4	198.5
	INTERNAL YIELD PRESSURE (MPa)			71.3	103.8	103.8	116.7	123.2	142.7	162.1	194.6
	BODY YIELD STRENGTH (kN)			1180	1716	1716	1931	2038	2360	2682	3218
	ULTIMATE STRENGTH (kN)			2038	2145	2038	2145	2253	2682	2896	3432
	YIELD TORQUE (Nm)			27960	40680	40680	45760	48300	55930	63560	76270

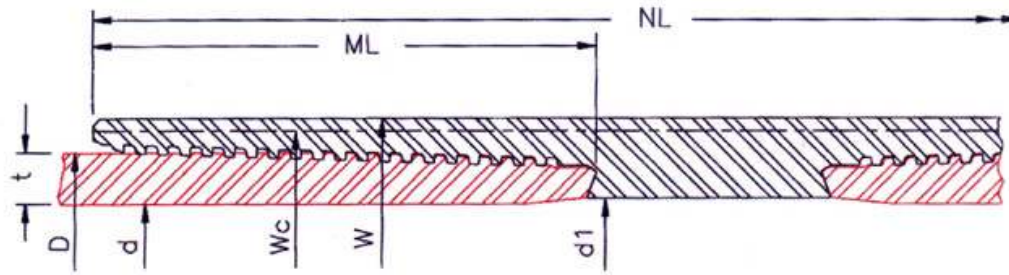
M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	5480	7430	7430	8660	8660	9720	11050	13350
		OPTIMUM (Nm)	6070	8240	8240	9610	9610	10790	12270	14710
		MAXIMUM (Nm)	6670	9060	9060	10560	10560	11860	13490	16070
	SPECIAL CLEARANCE	MINIMUM (Nm)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		OPTIMUM (Nm)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
MAXIMUM (Nm)		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	

C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		72.8	105.8	105.8	119.1	125.7	145.5	165.4	198.5
	INTERNAL YIELD PRESSURE (MPa)		71.3	103.8	103.8	116.7	123.2	142.7	162.1	194.6
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		863	1255	1255	1411	1490	1725	1960	2352
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		1797	1963	1878	1995	2097	2486	2705	3212
	SPECIAL CLEARANCE COUPLING O.D.		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30° JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	118.26	85.24	6.30		103		0.02905
	SPECIAL CLEARANCE COUPLING		Wc	n/a	85.24	n/a		n/a		n/a
LENGTH OF COUPLING (mm)		NL	227.46		The above information is for reference only. The information is subject to change or modification without notice. Please contact HSC for the latest information					
MAKE UP LOSS (mm)		ML	89.61							

TECHNICAL INFORMATION

TUBING

SIZE:	114.30 mm
NOMINAL WEIGHT:	15.63 kg/m
WALL THICKNESS:	5.69 mm
THREADS PER INCH:	6



PIPE BODY	OUTSIDE DIA.(mm)D	114.30	INSIDE DIA.(mm) d	102.92	DRIFT DIA. (mm)		99.75	PLAIN END WT (kg/m)		15.22
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		27.6	34.0	34.0	35.9	36.6	38.3	40.1	43.0
	INTERNAL YIELD PRESSURE (MPa)		33.0	48.0	48.0	54.1	57.1	66.1	75.1	90.1
	BODY YIELD STRENGTH (kN)		736	1071	1071	1205	1272	1472	1673	2008
	ULTIMATE STRENGTH (kN)		1272	1339	1272	1339	1405	1673	1807	2142
	YIELD TORQUE (Nm)		21990	31990	31990	35990	37990	43990	49980	59980

MAKEUP	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	4150	5480	5480	6360	6360	7160	8040	9270
		OPTIMUM (Nm)	4610	6070	6070	7060	7060	7950	8920	10290
		MAXIMUM (Nm)	5070	6670	6670	7770	7770	8730	9800	11310
	SPECIAL CLEARANCE	MINIMUM (Nm)	3690	4880	4880	5650	5650	6370	7160	8260
		OPTIMUM (Nm)	4150	5480	5480	6360	6360	7160	8040	9270
		MAXIMUM (Nm)	4610	6070	6070	7060	7060	7950	8920	10290

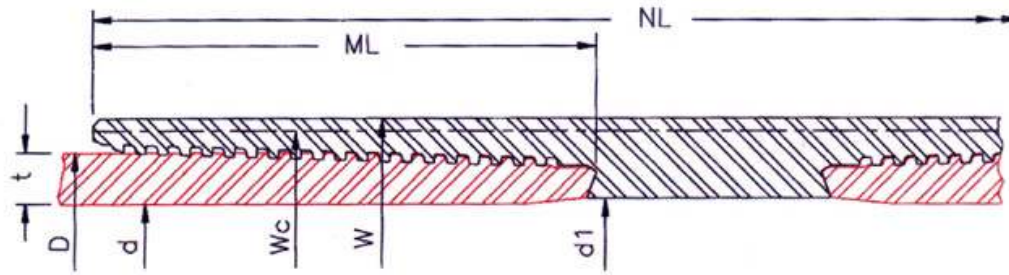
CONNECTION	COLLAPSE RESISTANCE (MPa)		27.6	34.0	34.0	35.9	36.6	38.3	40.1	43.0
	INTERNAL YIELD PRESSURE (MPa)		33.0	48.0	48.0	54.1	57.1	66.1	75.1	90.1
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		395	574	574	646	682	789	897	1076
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		304	441	441	497	524	607	690	828
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		1109	1218	1166	1240	1303	1545	1682	1998
	SPECIAL CLEARANCE COUPLING O.D.		1109	1218	1166	1240	1303	1545	1682	1998
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	123.49	101.45	4.63		114		0.01820
	SPECIAL CLEARANCE COUPLING		Wc	122.25	101.45	4.16		101		0.01814
	LENGTH OF COUPLING (mm)		NL	249.45						
MAKE UP LOSS (mm)		ML	100.81							

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TECHNICAL INFORMATION

TUBING

SIZE:	114.30 mm
NOMINAL WEIGHT:	17.26 kg/m
WALL THICKNESS:	6.35 mm
THREADS PER INCH:	6



P I P E B O D Y	OUTSIDE DIA.(mm)D	114.30	INSIDE DIA.(mm) d	101.60	DRIFT DIA. (mm)			98.42	PLAIN END WT (kg/m)		16.89
	GRADE			K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)			34.2	43.8	43.8	47.0	48.4	52.2	55.2	58.1
	INTERNAL YIELD PRESSURE (MPa)			36.9	53.6	53.6	60.3	63.7	73.7	83.8	100.5
	BODY YIELD STRENGTH (kN)			817	1188	1188	1336	1411	1633	1856	2227
	ULTIMATE STRENGTH (kN)			1411	1485	1411	1485	1559	1856	2004	2376
	YIELD TORQUE (Nm)			24120	35080	35080	39470	41660	48240	54810	65780

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	4240	5650	5650	6540	6540	7320	8220	9720
		OPTIMUM (Nm)	4700	6280	6280	7250	7250	8130	9120	10790
		MAXIMUM (Nm)	5170	6900	6900	7970	7970	8950	10030	11860
	SPECIAL CLEARANCE	MINIMUM (Nm)	3780	5030	5030	5820	5820	6510	7310	8650
		OPTIMUM (Nm)	4240	5650	5650	6540	6540	7320	8220	9720
MAXIMUM (Nm)		4700	6280	6280	7250	7250	8130	9120	10790	

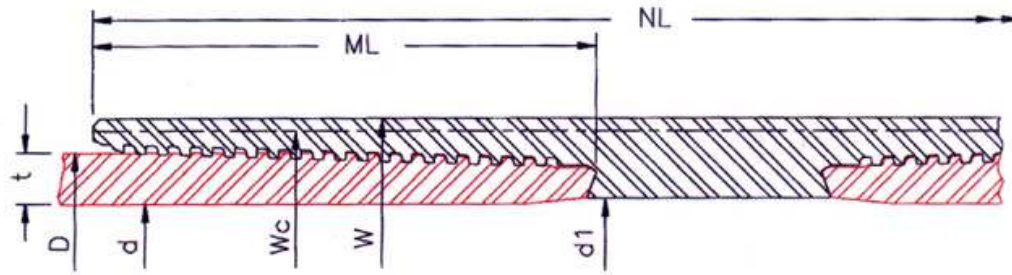
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		34.2	43.8	43.8	47.0	48.4	52.2	55.2	58.1
	INTERNAL YIELD PRESSURE (MPa)		36.9	53.6	53.6	60.3	63.7	73.7	83.8	100.5
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		395	574	574	646	682	789	897	1076
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		304	441	441	497	524	607	690	828
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		1230	1351	1293	1376	1446	1713	1866	2216
	SPECIAL CLEARANCE COUPLING O.D.		1222	1286	1222	1286	1351	1608	1736	2058
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	123.49	101.45	4.63		102		0.02013
	SPECIAL CLEARANCE COUPLING		Wc	122.25	101.45	4.16		91		0.02007
LENGTH OF COUPLING (mm)		NL	249.45							
MAKE UP LOSS (mm)		ML	100.81							

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TECHNICAL INFORMATION

TUBING

SIZE:	114.30 mm
NOMINAL WEIGHT:	18.75 kg/m
WALL THICKNESS:	6.88 mm
THREADS PER INCH:	6



P I P E B O D Y	OUTSIDE DIA.(mm)D	114.30	INSIDE DIA.(mm) d	100.53	DRIFT DIA. (mm)		97.36	PLAIN END WT (kg/m)		18.22
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		39.5	51.7	51.7	56.0	58.0	63.5	68.2	74.2
	INTERNAL YIELD PRESSURE (MPa)		40.0	58.1	58.1	65.4	69.0	79.9	90.8	109.0
	BODY YIELD STRENGTH (kN)		881	1281	1281	1441	1522	1762	2002	2402
	ULTIMATE STRENGTH (kN)		1522	1602	1522	1602	1682	2002	2162	2563
	YIELD TORQUE (Nm)		25770	37490	37490	42180	44520	51550	58580	70290

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	4330	5830	5830	6710	6710	7510	8390	9720
		OPTIMUM (Nm)	4800	6470	6470	7460	7460	8340	9310	10790
		MAXIMUM (Nm)	5270	7100	7100	8200	8200	9170	10240	11860
	SPECIAL CLEARANCE	MINIMUM (Nm)	3850	5190	5190	5970	5970	6680	7470	8650
		OPTIMUM (Nm)	4330	5830	5830	6710	6710	7510	8390	9720
MAXIMUM (Nm)		4800	6470	6470	7460	7460	8340	9310	10790	

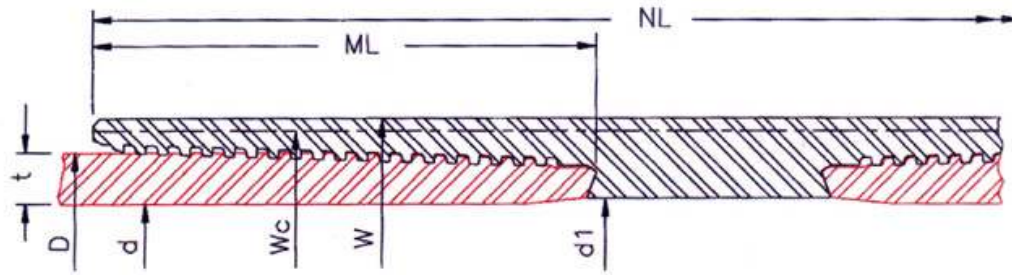
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		39.5	51.7	51.7	56.0	58.0	63.5	68.2	74.2
	INTERNAL YIELD PRESSURE (MPa)		40.0	58.1	58.1	65.4	69.0	79.9	90.8	109.0
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		451	656	656	738	779	902	1025	1230
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		304	441	441	497	524	607	690	828
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		1327	1457	1395	1484	1560	1848	2013	2391
	SPECIAL CLEARANCE COUPLING O.D.		1222	1286	1222	1286	1351	1608	1736	2058
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30° JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	124.26	101.45	4.92		101		0.02171
	SPECIAL CLEARANCE COUPLING		Wc	122.25	101.45	4.16		85		0.02161
LENGTH OF COUPLING (mm)		NL	249.45							
MAKE UP LOSS (mm)		ML	100.81							

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TECHNICAL INFORMATION

TUBING

SIZE:	114.30 mm
NOMINAL WEIGHT:	20.09 kg/m
WALL THICKNESS:	7.37 mm
THREADS PER INCH:	6



PIPE BODY	OUTSIDE DIA.(mm)D	114.30	INSIDE DIA.(mm) d	99.57	DRIFT DIA. (mm)	96.39	PLAIN END WT (kg/m)			19.41
	GRADE	K55		N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)	44.3	58.9	58.9	64.1	66.6	73.7	80.0	88.8	
	INTERNAL YIELD PRESSURE (MPa)	42.8	62.2	62.2	70.0	73.9	85.5	97.2	116.6	
	BODY YIELD STRENGTH (kN)	938	1365	1365	1536	1621	1877	2133	2559	
	ULTIMATE STRENGTH (kN)	1621	1706	1621	1706	1791	2133	2303	2730	
	YIELD TORQUE (Nm)	27230	39610	39610	44560	47030	54460	61880	74260	

MAKEUP	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	4510	6010	6010	6890	6890	7780	8570	10130
		OPTIMUM (Nm)	5000	6670	6670	7650	7650	8640	9520	11250
		MAXIMUM (Nm)	5490	7330	7330	8410	8410	9490	10470	12380
	SPECIAL CLEARANCE	MINIMUM (Nm)	4030	5340	5340	6130	6130	6930	7620	9000
		OPTIMUM (Nm)	4510	6010	6010	6890	6890	7780	8570	10130
MAXIMUM (Nm)		5000	6670	6670	7650	7650	8640	9520	11250	

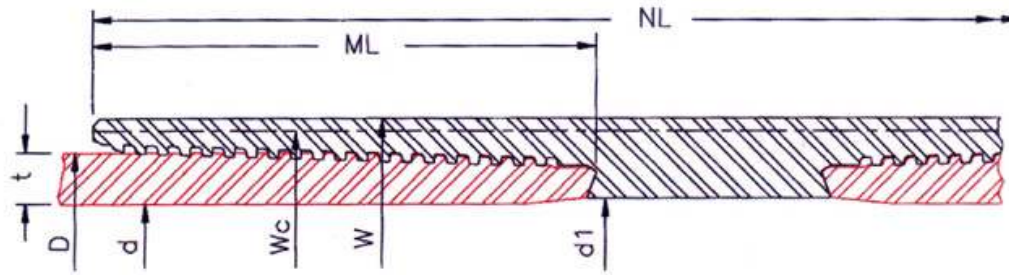
CONNECTION	COLLAPSE RESISTANCE (MPa)	44.3	58.9	58.9	64.1	66.6	73.7	80.0	88.8	
	INTERNAL YIELD PRESSURE (MPa)	42.8	62.2	62.2	70.0	73.9	85.5	97.2	116.6	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)	581	846	846	952	1004	1163	1322	1586	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)	304	441	441	497	524	607	690	828	
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.	1414	1552	1486	1581	1661	1969	2144	2547	
	SPECIAL CLEARANCE COUPLING O.D.	1222	1286	1222	1286	1351	1608	1736	2058	
		OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)	JOINT EFFICIENCY (%)		30° JOINT MUD DISPLACEMENT (m³)			
	REGULAR COUPLING	W	126.01	101.45	5.59		109		0.02317	
	SPECIAL CLEARANCE COUPLING	Wc	122.25	101.45	4.16		79		0.02299	
LENGTH OF COUPLING (mm)	NL	249.45								
MAKE UP LOSS (mm)	ML	100.81								

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TECHNICAL INFORMATION

TUBING

SIZE:	114.30 mm
NOMINAL WEIGHT:	22.47 kg/m
WALL THICKNESS:	8.56 mm
THREADS PER INCH:	6



PIPE BODY	OUTSIDE DIA.(mm)D	114.30	INSIDE DIA.(mm) d	97.18	DRIFT DIA. (mm)		94.01	PLAIN END WT (kg/m)		22.29
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		52.5	76.4	76.4	84.3	88.0	98.9	109.1	124.8
	INTERNAL YIELD PRESSURE (MPa)		49.7	72.3	72.3	81.3	85.8	99.4	112.9	135.5
	BODY YIELD STRENGTH (kN)		1078	1568	1568	1764	1862	2157	2451	2941
	ULTIMATE STRENGTH (kN)		1862	1961	1862	1961	2059	2451	2647	3137
	YIELD TORQUE (Nm)		30650	44580	44580	50150	52940	61300	69660	83590

MAKEUP	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	5120	7080	7080	8120	8120	9270	10130	11900
		OPTIMUM (Nm)	5690	7850	7850	9020	9020	10290	11250	13220
		MAXIMUM (Nm)	6260	8620	8620	9910	9910	11310	12380	14530
	SPECIAL CLEARANCE	MINIMUM (Nm)	4560	6300	6300	7230	7230	8260	9000	10590
		OPTIMUM (Nm)	5120	7080	7080	8120	8120	9270	10130	11900
MAXIMUM (Nm)		5690	7850	7850	9020	9020	10290	11250	13220	

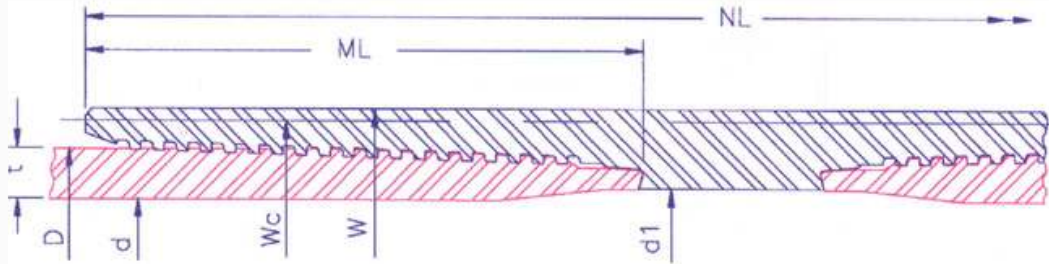
CONNECTION	COLLAPSE RESISTANCE (MPa)		52.5	76.4	76.4	84.3	88.0	98.9	109.1	124.8
	INTERNAL YIELD PRESSURE (MPa)		49.7	72.3	72.3	81.3	85.8	99.4	112.9	135.5
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		675	982	982	1105	1167	1351	1535	1842
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		451	656	656	738	779	902	1025	1230
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		1625	1783	1708	1817	1909	2263	2464	2927
	SPECIAL CLEARANCE COUPLING O.D.		1464	1541	1464	1541	1618	1926	2080	2465
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	127.25	100.15	6.16		104		0.02659
	SPECIAL CLEARANCE COUPLING		Wc	124.26	100.15	5.00		83		0.02645
LENGTH OF COUPLING (mm)		NL	249.45							
MAKE UP LOSS (mm)		ML	100.81							

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TECHNICAL INFORMATION

CASING

SIZE:	127.00 mm
NOMINAL WEIGHT:	19.35 kg/m
WALL THICKNESS:	6.43 mm
THREADS PER INCH:	5



PIPE BODY	OUTSIDE DIA.(mm)D	127.00	INSIDE DIA.(mm) d	114.15	DRIFT DIA. (mm)			110.97	PLAIN END WT (kg/m)		19.09
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)		28.6	35.4	35.4	37.4	38.3	40.3	41.6	44.9	
	INTERNAL YIELD PRESSURE (MPa)		33.6	48.8	48.8	54.9	58.0	67.2	76.3	91.6	
	BODY YIELD STRENGTH (kN)		923	1343	1343	1510	1594	1846	2098	2517	
	ULTIMATE STRENGTH (kN)		1594	1678	1594	1678	1762	2098	2266	2685	
	YIELD TORQUE (Nm)		30590	44490	44490	50060	52840	61180	69520	83430	

RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
MAKEUP	REGULAR	MINIMUM (Nm)	5120	5570	5570	5920	5920	6180	6450	6970
		OPTIMUM (Nm)	5690	6180	6180	6580	6580	6860	7160	7740
		MAXIMUM (Nm)	6260	6790	6790	7230	7230	7540	7860	8510
	SPECIAL CLEARANCE	MINIMUM (Nm)	5120	5570	5570	5920	5920	6180	6450	6970
		OPTIMUM (Nm)	5690	6180	6180	6580	6580	6860	7160	7740
		MAXIMUM (Nm)	6260	6790	6790	7230	7230	7540	7860	8510

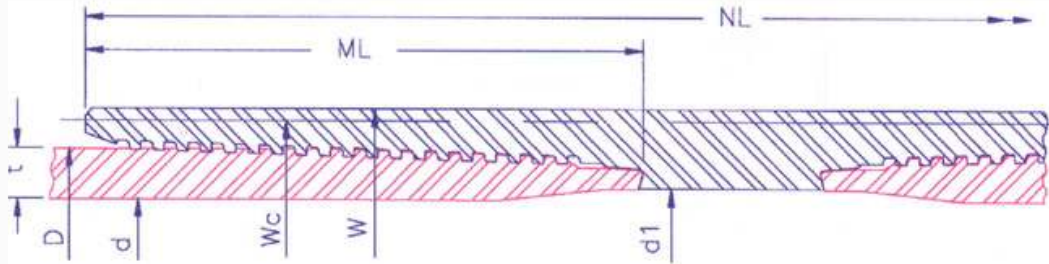
CONNECTION	COLLAPSE RESISTANCE (MPa)		28.6	35.4	35.4	37.4	38.3	40.3	41.6	44.9	
	INTERNAL YIELD PRESSURE (MPa)		33.6	48.8	48.8	54.9	58.0	67.2	76.3	91.6	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		798	1161	1161	1306	1379	1596	1814	2177	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		383	557	557	626	661	765	870	1044	
	PARTING LOAD (kN)										
	REGULAR COUPLING O.D.		1376	1518	1455	1549	1628	1929	2103	2498	
	SPECIAL CLEARANCE COUPLING O.D.		1376	1518	1455	1549	1628	1929	2103	2498	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)		
	REGULAR COUPLING		W	141.91	113.26	8.54		146		0.02318	
	SPECIAL CLEARANCE COUPLING		Wc	136.91	113.26	6.07		101		0.02286	
LENGTH OF COUPLING (mm)		NL	288.47								
MAKE UP LOSS (mm)		ML	119.99								

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TECHNICAL INFORMATION

CASING

SIZE:	127.00 mm
NOMINAL WEIGHT:	22.32 kg/m
WALL THICKNESS:	7.52 mm
THREADS PER INCH:	5



PIPE BODY	OUTSIDE DIA.(mm)D	127.00	INSIDE DIA.(mm) d	111.96	DRIFT DIA. (mm)			108.79	PLAIN END WT (kg/m)		22.13
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)		38.3	50.0	50.0	54.0	55.9	61.0	65.4	70.7	
	INTERNAL YIELD PRESSURE (MPa)		39.3	57.1	57.1	64.3	67.9	78.6	89.3	107.1	
	BODY YIELD STRENGTH (kN)		1070	1557	1557	1751	1848	2140	2432	2919	
	ULTIMATE STRENGTH (kN)		1848	1946	1848	1946	2043	2432	2627	3113	
	YIELD TORQUE (Nm)		34860	50710	50710	57050	60220	69730	79240	95080	

MAKEUP	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	5740	6280	6280	6540	6540	6810	7160	7690
		OPTIMUM (Nm)	6370	6970	6970	7250	7250	7550	7950	8530
		MAXIMUM (Nm)	7010	7660	7660	7970	7970	8300	8730	9370
	SPECIAL CLEARANCE	MINIMUM (Nm)	5740	6280	6280	6540	6540	6810	7160	7690
		OPTIMUM (Nm)	6370	6970	6970	7250	7250	7550	7950	8530
MAXIMUM (Nm)		7010	7660	7660	7970	7970	8300	8730	9370	

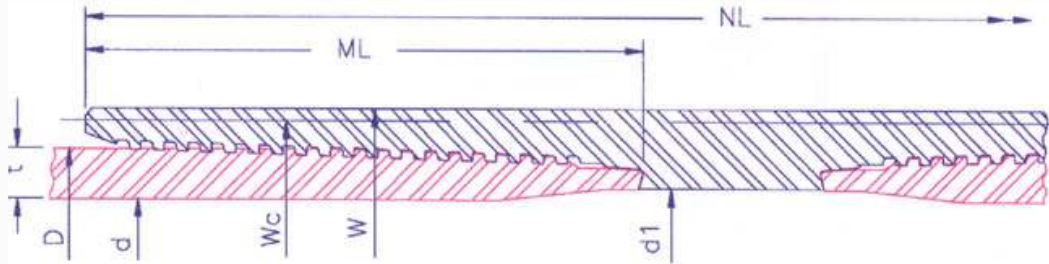
CONNECTION	COLLAPSE RESISTANCE (MPa)		38.3	50.0	50.0	54.0	55.9	61.0	65.4	70.7
	INTERNAL YIELD PRESSURE (MPa)		39.3	57.1	57.1	64.3	67.9	78.6	89.3	107.1
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		798	1161	1161	1306	1379	1596	1814	2177
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		383	557	557	626	661	765	870	1044
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		1595	1760	1686	1796	1888	2236	2438	2896
	SPECIAL CLEARANCE COUPLING O.D.		1534	1615	1534	1615	1696	2019	2180	2584
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	141.91	113.26	8.54		126		0.02669
	SPECIAL CLEARANCE COUPLING		Wc	136.91	113.26	6.07		87		0.02638
LENGTH OF COUPLING (mm)		NL	288.47							
MAKE UP LOSS (mm)		ML	119.99							

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TECHNICAL INFORMATION

CASING

SIZE:	127.00 mm
NOMINAL WEIGHT:	26.79 kg/m
WALL THICKNESS:	9.19 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	127.00	INSIDE DIA.(mm) d	108.61	DRIFT DIA. (mm)			105.44	PLAIN END WT (kg/m)		26.68
	GRADE			K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)			50.9	72.3	72.3	79.5	82.9	92.9	102.2	116.2
	INTERNAL YIELD PRESSURE (MPa)			48.0	69.9	69.9	78.6	83.0	96.1	109.2	131.0
	BODY YIELD STRENGTH (kN)			1290	1877	1877	2112	2229	2581	2933	3519
	ULTIMATE STRENGTH (kN)			2229	2346	2229	2346	2464	2933	3167	3754
	YIELD TORQUE (Nm)			40960	59570	59570	67020	70740	81910	93080	111700

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	6970	7510	7510	7860	7860	8220	8660	9270
		OPTIMUM (Nm)	7740	8340	8340	8730	8730	9120	9610	10290
		MAXIMUM (Nm)	8510	9170	9170	9600	9600	10030	10560	11310
	SPECIAL CLEARANCE	MINIMUM (Nm)	6970	7510	7510	7860	7860	8220	8660	9270
		OPTIMUM (Nm)	7740	8340	8340	8730	8730	9120	9610	10290
MAXIMUM (Nm)		8510	9170	9170	9600	9600	10030	10560	11310	

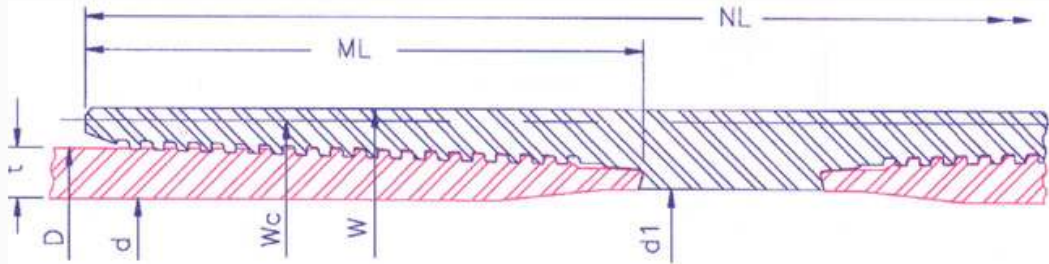
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		50.9	72.3	72.3	79.5	82.9	92.9	102.2	116.2
	INTERNAL YIELD PRESSURE (MPa)		48.0	69.9	69.9	78.6	83.0	96.1	109.2	131.0
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		798	1161	1161	1306	1379	1596	1814	2177
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		383	557	557	626	661	765	870	1044
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		1923	2122	2033	2166	2277	2696	2940	3492
	SPECIAL CLEARANCE COUPLING O.D.		1534	1615	1534	1615	1696	2019	2180	2584
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	141.91	112.24	8.62		105		0.03196
	SPECIAL CLEARANCE COUPLING		Wc	136.91	112.24	6.14		72		0.03164
LENGTH OF COUPLING (mm)		NL	288.47							
MAKE UP LOSS (mm)		ML	119.99							

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TECHNICAL INFORMATION

CASING

SIZE:	127.00 mm
NOMINAL WEIGHT:	30.21 kg/m
WALL THICKNESS:	10.36 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	127.00	INSIDE DIA.(mm) d	106.27	DRIFT DIA. (mm)			103.10	PLAIN END WT (kg/m)		29.78
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)		56.8	82.7	82.7	93.0	98.2	113.7	127.9	148.0	
	INTERNAL YIELD PRESSURE (MPa)		54.2	78.8	78.8	88.6	93.5	108.3	123.1	147.7	
	BODY YIELD STRENGTH (kN)		1440	2095	2095	2356	2487	2880	3273	3927	
	ULTIMATE STRENGTH (kN)		2487	2618	2487	2618	2749	3273	3535	4189	
	YIELD TORQUE (Nm)		44880	65280	65280	73440	77520	89760	102000	122400	

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	8390	9270	9270	9720	9720	10130	10620	11380
		OPTIMUM (Nm)	9310	10290	10290	10790	10790	11250	11800	12620
		MAXIMUM (Nm)	10240	11310	11310	11860	11860	12380	12980	13870
	SPECIAL CLEARANCE	MINIMUM (Nm)	8390	9270	9270	9720	9720	10130	10620	11380
		OPTIMUM (Nm)	9310	10290	10290	10790	10790	11250	11800	12620
MAXIMUM (Nm)		10240	11310	11310	11860	11860	12380	12980	13870	

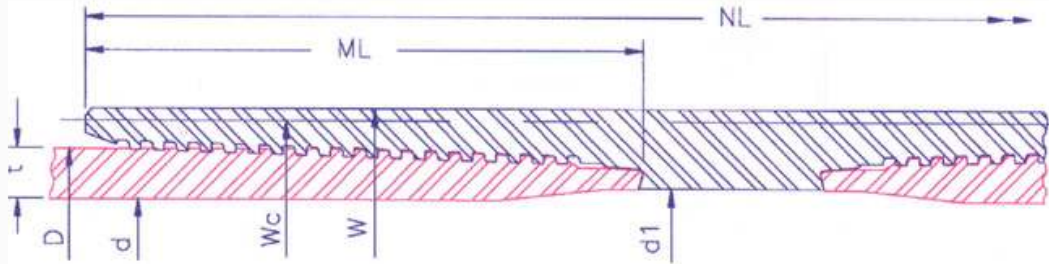
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		56.8	82.7	82.7	93.0	98.2	113.7	127.9	148.0
	INTERNAL YIELD PRESSURE (MPa)		54.2	78.8	78.8	88.6	93.5	108.3	123.1	147.7
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		798	1161	1161	1306	1379	1596	1814	2177
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		383	557	557	626	661	765	870	1044
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		2146	2333	2216	2333	2449	2916	3149	3732
	SPECIAL CLEARANCE COUPLING O.D.		1534	1615	1534	1615	1696	2019	2180	2584
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	141.91	109.55	8.80		94		0.03558
	SPECIAL CLEARANCE COUPLING		Wc	136.91	109.55	6.32		65		0.03526
LENGTH OF COUPLING (mm)		NL	288.47							
MAKE UP LOSS (mm)		ML	119.99							

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TECHNICAL INFORMATION

CASING

SIZE:	127.00 mm
NOMINAL WEIGHT:	31.85 kg/m
WALL THICKNESS:	11.10 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	127.00	INSIDE DIA.(mm) d	104.80	DRIFT DIA. (mm)			101.63	PLAIN END WT (kg/m)		31.70
	GRADE	K55		N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)	60.5		88.0	88.0	99.0	104.5	121.0	137.5	165.0	
	INTERNAL YIELD PRESSURE (MPa)	58.0		84.4	84.4	94.9	100.2	116.0	131.8	158.2	
	BODY YIELD STRENGTH (kN)	1533		2229	2229	2508	2647	3065	3483	4180	
	ULTIMATE STRENGTH (kN)	2647		2787	2647	2787	2926	3483	3762	4458	
	YIELD TORQUE (Nm)	47220		68690	68690	77280	81570	94450	107330	128790	

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	8750	9720	9720	10130	10130	10620	11050	11900
		OPTIMUM (Nm)	9710	10790	10790	11250	11250	11800	12270	13220
		MAXIMUM (Nm)	10670	11860	11860	12380	12380	12980	13490	14530
	SPECIAL CLEARANCE	MINIMUM (Nm)	8750	9720	9720	10130	10130	10620	11050	11900
		OPTIMUM (Nm)	9710	10790	10790	11250	11250	11800	12270	13220
MAXIMUM (Nm)		10670	11860	11860	12380	12380	12980	13490	14530	

C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		60.5	88.0	88.0	99.0	104.5	121.0	137.5	165.0	
	INTERNAL YIELD PRESSURE (MPa)		58.0	84.4	84.4	94.9	100.2	116.0	131.8	158.2	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		798	1161	1161	1306	1379	1596	1814	2177	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		383	557	557	626	661	765	870	1044	
	PARTING LOAD (kN)										
	REGULAR COUPLING O.D.		2216	2333	2216	2333	2449	2916	3149	3732	
	SPECIAL CLEARANCE COUPLING O.D.		1534	1615	1534	1615	1696	2019	2180	2584	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)		
	REGULAR COUPLING		W	141.91	109.55	8.80		88		0.03778	
	SPECIAL CLEARANCE COUPLING		Wc	136.91	109.55	6.32		61		0.03746	
LENGTH OF COUPLING (mm)		NL	288.47								
MAKE UP LOSS (mm)		ML	119.99								

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TECHNICAL INFORMATION

CASING

SIZE:	127.00 mm
NOMINAL WEIGHT:	34.53 kg/m
WALL THICKNESS:	12.14 mm
THREADS PER INCH:	5



PIPE BODY	OUTSIDE DIA.(mm)D	127.00	INSIDE DIA.(mm) d	102.72	DRIFT DIA. (mm)			PLAIN END WT (kg/m)		34.35
	GRADE	K55		N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)	65.6		95.4	95.4	107.3	113.3	131.1	149.0	178.8
	INTERNAL YIELD PRESSURE (MPa)	63.4		92.3	92.3	103.8	109.6	126.9	144.2	173.0
	BODY YIELD STRENGTH (kN)	1661		2416	2416	2719	2870	3323	3776	4531
	ULTIMATE STRENGTH (kN)	2870		3021	2870	3021	3172	3776	4078	4833
	YIELD TORQUE (Nm)	50380		73270	73270	82430	87010	100750	114490	137390

MAKEUP	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	9270	10130	10130	10620	10620	11050	11470	12410
		OPTIMUM (Nm)	10290	11250	11250	11800	11800	12270	12740	13760
		MAXIMUM (Nm)	11310	12380	12380	12980	12980	13490	14020	15120
	SPECIAL CLEARANCE	MINIMUM (Nm)	9270	10130	10130	10620	10620	11050	11470	12410
		OPTIMUM (Nm)	10290	11250	11250	11800	11800	12270	12740	13760
MAXIMUM (Nm)		11310	12380	12380	12980	12980	13490	14020	15120	

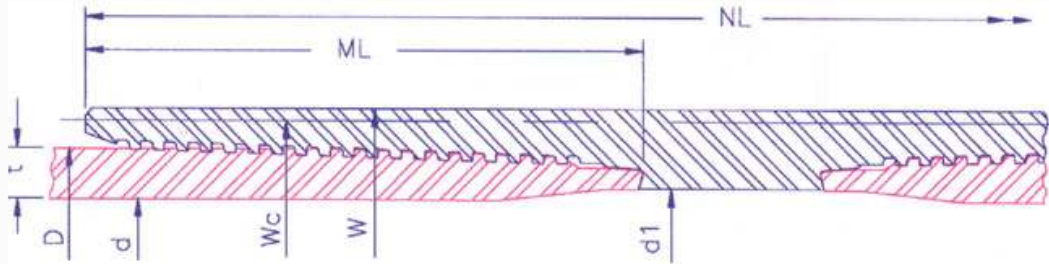
CONNECTION	COLLAPSE RESISTANCE (MPa)		65.6	95.4	95.4	107.3	113.3	131.1	149.0	178.8
	INTERNAL YIELD PRESSURE (MPa)		63.4	92.3	92.3	103.8	109.6	126.9	144.2	173.0
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		798	1161	1161	1306	1379	1596	1814	2177
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		383	557	557	626	661	765	870	1044
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		2216	2333	2216	2333	2449	2916	3149	3732
	SPECIAL CLEARANCE COUPLING O.D.		1534	1615	1534	1615	1696	2019	2180	2584
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	141.91	109.55	8.80		81		0.04084
	SPECIAL CLEARANCE COUPLING		Wc	136.91	109.55	6.32		56		0.04052
LENGTH OF COUPLING (mm)		NL	288.47							
MAKE UP LOSS (mm)		ML	119.99							

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TECHNICAL INFORMATION

CASING

SIZE:	127.00 mm
NOMINAL WEIGHT:	35.86 kg/m
WALL THICKNESS:	12.70 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	127.00	INSIDE DIA.(mm) d	101.60	DRIFT DIA. (mm)	98.42	PLAIN END WT (kg/m)			35.76	
	GRADE	K55			N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)	68.3			99.3	99.3	111.7	117.9	136.5	155.1	186.2
	INTERNAL YIELD PRESSURE (MPa)	66.4			96.5	96.5	108.6	114.6	132.7	150.8	181.0
	BODY YIELD STRENGTH (kN)	1729			2515	2515	2830	2987	3459	3930	4716
	ULTIMATE STRENGTH (kN)	2987			3144	2987	3144	3301	3930	4245	5031
	YIELD TORQUE (Nm)	51990			75620	75620	85070	89800	103980	118160	141790

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	9270	10130	10130	10620	10620	11470	11900	12870
		OPTIMUM (Nm)	10290	11250	11250	11800	11800	12740	13220	14280
		MAXIMUM (Nm)	11310	12380	12380	12980	12980	14020	14530	15690
	SPECIAL CLEARANCE	MINIMUM (Nm)	9270	10130	10130	10620	10620	11470	11900	12870
		OPTIMUM (Nm)	10290	11250	11250	11800	11800	12740	13220	14280
MAXIMUM (Nm)		11310	12380	12380	12980	12980	14020	14530	15690	

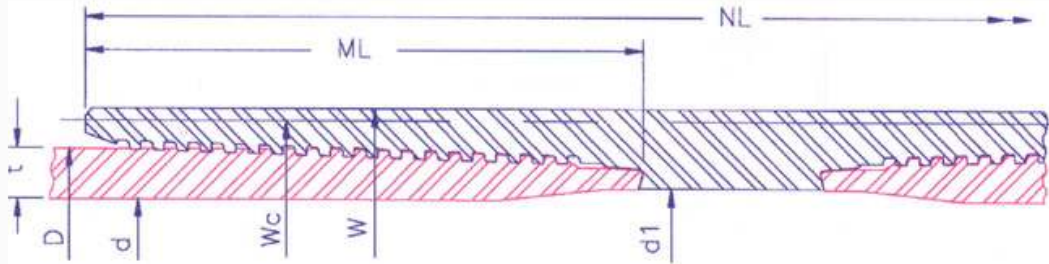
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)	68.3			99.3	99.3	111.7	117.9	136.5	155.1	186.2
	INTERNAL YIELD PRESSURE (MPa)	66.4			96.5	96.5	108.6	114.6	132.7	150.8	181.0
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)	798			1161	1161	1306	1379	1596	1814	2177
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)	383			557	557	626	661	765	870	1044
	PARTING LOAD (kN)										
	REGULAR COUPLING O.D.	2216			2333	2216	2333	2449	2916	3149	3732
	SPECIAL CLEARANCE COUPLING O.D.	1534			1615	1534	1615	1696	2019	2180	2584
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)			JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING	W	141.91	109.55	8.80			78		0.04245	
	SPECIAL CLEARANCE COUPLING	Wc	136.91	109.55	6.32			54		0.04213	
LENGTH OF COUPLING (mm)	NL	288.47									
MAKE UP LOSS (mm)	ML	119.99									

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TECHNICAL INFORMATION

CASING

SIZE:	139.70 mm
NOMINAL WEIGHT:	23.07 kg/m
WALL THICKNESS:	6.98 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	139.70	INSIDE DIA.(mm) d	125.73	DRIFT DIA. (mm)			122.56	PLAIN END WT (kg/m)		22.84
	GRADE	K55		N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)	27.9		34.4	34.4	36.3	37.1	38.8	40.5	43.5	
	INTERNAL YIELD PRESSURE (MPa)	33.2		48.3	48.3	54.3	57.3	66.4	75.4	90.5	
	BODY YIELD STRENGTH (kN)	1104		1606	1606	1807	1908	2209	2510	3012	
	ULTIMATE STRENGTH (kN)	1908		2008	1908	2008	2108	2510	2711	3213	
	YIELD TORQUE (Nm)	40310		58630	58630	65960	69620	80610	91610	109930	

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	5740	6280	6280	6620	6620	6970	7320	7950
		OPTIMUM (Nm)	6370	6970	6970	7350	7350	7740	8130	8830
		MAXIMUM (Nm)	7010	7660	7660	8080	8080	8510	8950	9710
	SPECIAL CLEARANCE	MINIMUM (Nm)	5740	6280	6280	6620	6620	6970	7320	7950
		OPTIMUM (Nm)	6370	6970	6970	7350	7350	7740	8130	8830
MAXIMUM (Nm)		7010	7660	7660	8080	8080	8510	8950	9710	

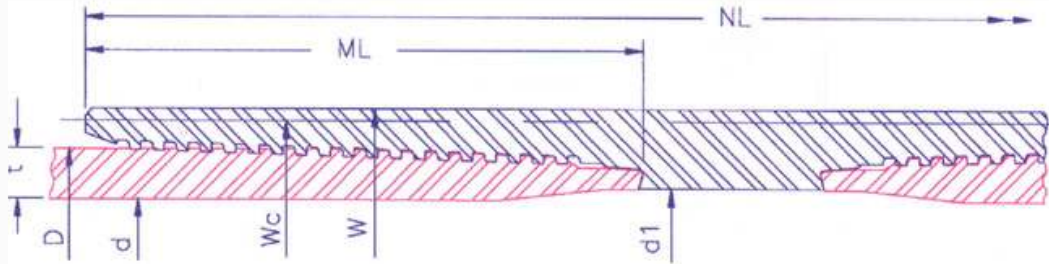
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		27.9	34.4	34.4	36.3	37.1	38.8	40.5	43.5
	INTERNAL YIELD PRESSURE (MPa)		33.2	48.3	48.3	54.3	57.3	66.4	75.4	90.5
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		853	1240	1240	1396	1473	1706	1938	2326
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		428	622	622	700	738	855	972	1166
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		1628	1805	1732	1847	1941	2298	2508	2980
	SPECIAL CLEARANCE COUPLING O.D.		1628	1797	1707	1797	1886	2246	2425	2875
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	154.30	125.76	9.41		133		0.02762
	SPECIAL CLEARANCE COUPLING		Wc	149.61	125.76	6.82		94		0.02729
LENGTH OF COUPLING (mm)		NL	294.46							
MAKE UP LOSS (mm)		ML	123.19							

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TECHNICAL INFORMATION

CASING

SIZE:	139.70 mm
NOMINAL WEIGHT:	25.30 kg/m
WALL THICKNESS:	7.72 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	139.70	INSIDE DIA.(mm) d	124.26	DRIFT DIA. (mm)			121.08	PLAIN END WT (kg/m)		25.11
	GRADE	K55		N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)	33.9		43.3	43.3	46.5	47.9	51.6	54.4	57.1	
	INTERNAL YIELD PRESSURE (MPa)	36.7		53.4	53.4	60.0	63.4	73.4	83.4	100.0	
	BODY YIELD STRENGTH (kN)	1214		1766	1766	1987	2097	2428	2759	3311	
	ULTIMATE STRENGTH (kN)	2097		2207	2097	2207	2318	2759	2980	3532	
	YIELD TORQUE (Nm)	43850		63780	63780	71750	75740	87690	99650	119580	

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	6180	6710	6710	7080	7080	7430	7780	8390
		OPTIMUM (Nm)	6860	7460	7460	7850	7850	8240	8640	9310
		MAXIMUM (Nm)	7540	8200	8200	8620	8620	9060	9490	10240
	SPECIAL CLEARANCE	MINIMUM (Nm)	6180	6710	6710	7080	7080	7430	7780	8390
		OPTIMUM (Nm)	6860	7460	7460	7850	7850	8240	8640	9310
MAXIMUM (Nm)		7540	8200	8200	8620	8620	9060	9490	10240	

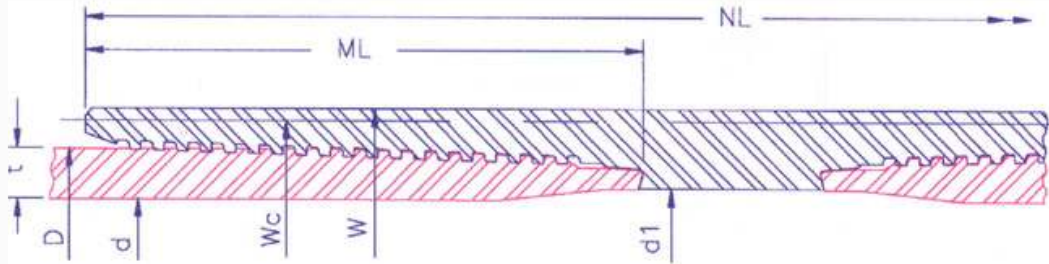
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		33.9	43.3	43.3	46.5	47.9	51.6	54.4	57.1
	INTERNAL YIELD PRESSURE (MPa)		36.7	53.4	53.4	60.0	63.4	73.4	83.4	100.0
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		853	1240	1240	1396	1473	1706	1938	2326
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		428	622	622	700	738	855	972	1166
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		1789	1985	1904	2030	2134	2526	2757	3276
	SPECIAL CLEARANCE COUPLING O.D.		1707	1797	1707	1797	1886	2246	2425	2875
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	154.30	125.76	9.41		121		0.03024
	SPECIAL CLEARANCE COUPLING		Wc	149.61	125.76	6.82		86		0.02991
LENGTH OF COUPLING (mm)		NL	294.46							
MAKE UP LOSS (mm)		ML	123.19							

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TECHNICAL INFORMATION

CASING

SIZE:	139.70 mm
NOMINAL WEIGHT:	29.76 kg/m
WALL THICKNESS:	9.17 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	139.70	INSIDE DIA.(mm) d	121.36	DRIFT DIA. (mm)			118.19	PLAIN END WT (kg/m)		29.48
	GRADE	K55		N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)	45.6		60.9	60.9	66.4	69.1	76.6	83.3	92.9	
	INTERNAL YIELD PRESSURE (MPa)	43.6		63.4	63.4	71.3	75.2	87.1	99.0	118.8	
	BODY YIELD STRENGTH (kN)	1426		2074	2074	2333	2463	2852	3241	3889	
	ULTIMATE STRENGTH (kN)	2463		2593	2463	2593	2722	3241	3500	4148	
	YIELD TORQUE (Nm)	50450		73380	73380	82550	87140	100900	114660	137590	

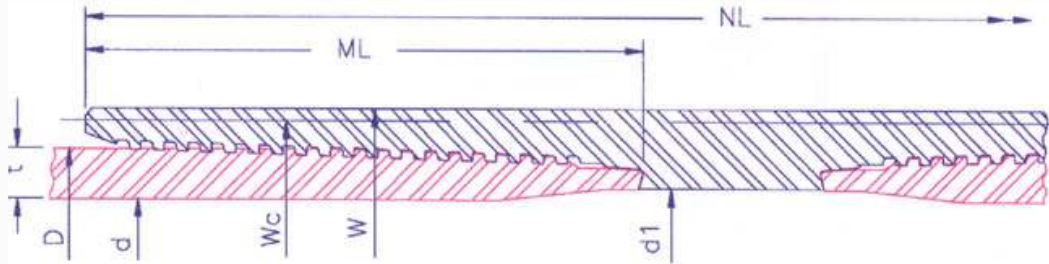
M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	7240	7950	7950	8300	8300	8750	9270	9720
		OPTIMUM (Nm)	8040	8830	8830	9220	9220	9710	10290	10790
		MAXIMUM (Nm)	8840	9710	9710	10140	10140	10670	11310	11860
	SPECIAL CLEARANCE	MINIMUM (Nm)	7240	7950	7950	8300	8300	8750	9270	9720
		OPTIMUM (Nm)	8040	8830	8830	9220	9220	9710	10290	10790
MAXIMUM (Nm)		8840	9710	9710	10140	10140	10670	11310	11860	

C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		45.6	60.9	60.9	66.4	69.1	76.6	83.3	92.9
	INTERNAL YIELD PRESSURE (MPa)		43.6	63.4	63.4	71.3	75.2	87.1	99.0	118.8
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		853	1240	1240	1396	1473	1706	1938	2326
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		428	622	622	700	738	855	972	1166
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		2102	2331	2236	2384	2506	2967	3238	3847
	SPECIAL CLEARANCE COUPLING O.D.		1707	1797	1707	1797	1886	2246	2425	2875
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	154.30	124.94	9.47		103		0.03531
	SPECIAL CLEARANCE COUPLING		Wc	149.61	124.94	6.88		73		0.03498
LENGTH OF COUPLING (mm)		NL	294.46		The above information is for reference only. The information is subject to change or modification without notice. Please contact HSC for the latest information					
MAKE UP LOSS (mm)		ML	123.19							

TECHNICAL INFORMATION

CASING

SIZE:	139.70 mm
NOMINAL WEIGHT:	34.23 kg/m
WALL THICKNESS:	10.54 mm
THREADS PER INCH:	5



PIPE BODY	OUTSIDE DIA.(mm)D	139.70	INSIDE DIA.(mm) d	118.62	DRIFT DIA. (mm)			PLAIN END WT (kg/m)		33.54
	GRADE	K55		N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)	52.9		77.0	77.0	85.3	89.2	100.2	110.7	126.8
	INTERNAL YIELD PRESSURE (MPa)	50.1		72.8	72.8	81.9	86.5	100.1	113.8	136.6
	BODY YIELD STRENGTH (kN)	1622		2359	2359	2654	2802	3244	3686	4423
	ULTIMATE STRENGTH (kN)	2802		2949	2802	2949	3096	3686	3981	4718
	YIELD TORQUE (Nm)	56280		81870	81870	92100	97220	112570	127920	153500

RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
MAKEUP	REGULAR	MINIMUM (Nm)	8660	9720	9720	10130	10130	10620	11470	12410
		OPTIMUM (Nm)	9610	10790	10790	11250	11250	11800	12740	13760
		MAXIMUM (Nm)	10560	11860	11860	12380	12380	12980	14020	15120
	SPECIAL CLEARANCE	MINIMUM (Nm)	8660	9720	9720	10130	10130	10620	11470	12410
		OPTIMUM (Nm)	9610	10790	10790	11250	11250	11800	12740	13760
		MAXIMUM (Nm)	10560	11860	11860	12380	12380	12980	14020	15120

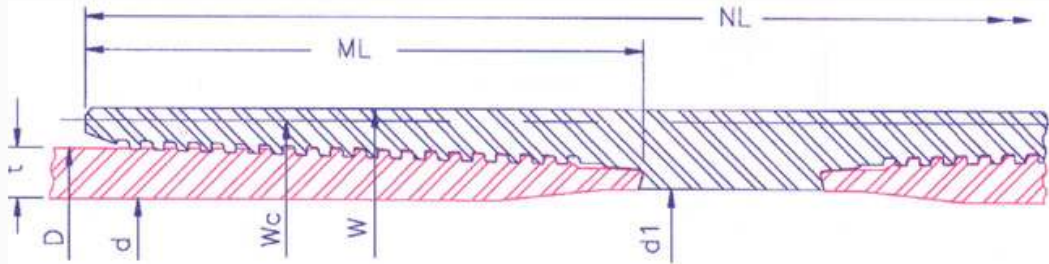
CONNECTION	COLLAPSE RESISTANCE (MPa)		52.9	77.0	77.0	85.3	89.2	100.2	110.7	126.8	
	INTERNAL YIELD PRESSURE (MPa)		50.1	72.8	72.8	81.9	86.5	100.1	113.8	136.6	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		853	1240	1240	1396	1473	1706	1938	2326	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		428	622	622	700	738	855	972	1166	
	PARTING LOAD (kN)										
	REGULAR COUPLING O.D.		2391	2531	2405	2531	2658	3164	3417	4050	
	SPECIAL CLEARANCE COUPLING O.D.		1707	1797	1707	1797	1886	2246	2425	2875	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)		
	REGULAR COUPLING		W	154.30	122.76	9.64		90		0.04002	
	SPECIAL CLEARANCE COUPLING		Wc	149.61	122.76	7.05		64		0.03969	
LENGTH OF COUPLING (mm)		NL	294.46								
MAKE UP LOSS (mm)		ML	123.19								

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TECHNICAL INFORMATION

CASING

SIZE:	139.70 mm
NOMINAL WEIGHT:	38.69 kg/m
WALL THICKNESS:	12.09 mm
THREADS PER INCH:	5



PIPE BODY	OUTSIDE DIA.(mm)D	139.70	INSIDE DIA.(mm) d	115.52	DRIFT DIA. (mm)			PLAIN END WT (kg/m)		
					112.34					38.01
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		60.0	87.2	87.2	98.1	103.6	119.9	136.3	163.5
	INTERNAL YIELD PRESSURE (MPa)		57.4	83.5	83.5	94.0	99.2	114.9	130.5	156.6
	BODY YIELD STRENGTH (kN)		1838	2674	2674	3008	3175	3676	4177	5013
	ULTIMATE STRENGTH (kN)		3175	3342	3175	3342	3509	4177	4512	5347
YIELD TORQUE (Nm)		62400	90770	90770	102120	107790	124810	141830	170190	

MAKEUP	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	9270	10130	10130	11050	11050	11470	11900	13350
		OPTIMUM (Nm)	10290	11250	11250	12270	12270	12740	13220	14710
		MAXIMUM (Nm)	11310	12380	12380	13490	13490	14020	14530	16070
	SPECIAL CLEARANCE	MINIMUM (Nm)	9270	10130	10130	11050	11050	11470	11900	13350
		OPTIMUM (Nm)	10290	11250	11250	12270	12270	12740	13220	14710
MAXIMUM (Nm)		11310	12380	12380	13490	13490	14020	14530	16070	

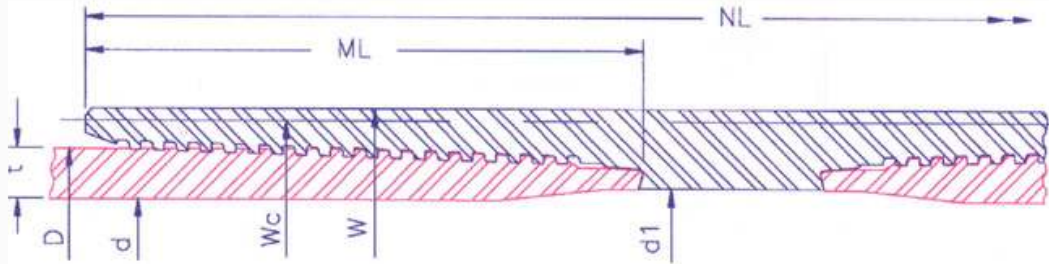
CONNECTION	COLLAPSE RESISTANCE (MPa)		60.0	87.2	87.2	98.1	103.6	119.9	136.3	163.5
	INTERNAL YIELD PRESSURE (MPa)		57.4	83.5	83.5	94.0	99.2	114.9	130.5	156.6
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		853	1240	1240	1396	1473	1706	1938	2326
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		428	622	622	700	738	855	972	1166
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		2405	2531	2405	2531	2658	3164	3417	4050
	SPECIAL CLEARANCE COUPLING O.D.		1707	1797	1707	1797	1886	2246	2425	2875
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	154.30	122.76	9.64		80		0.04516
	SPECIAL CLEARANCE COUPLING		Wc	149.61	122.76	7.05		57		0.04483
LENGTH OF COUPLING (mm)		NL	294.46							
MAKE UP LOSS (mm)		ML	123.19							

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TECHNICAL INFORMATION

CASING

SIZE:	168.28 mm
NOMINAL WEIGHT:	29.76 kg/m
WALL THICKNESS:	7.32 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	168.28	INSIDE DIA.(mm) d	153.64	DRIFT DIA. (mm)			PLAIN END WT (kg/m)		29.00
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		20.5	23.9	23.9	25.5	26.1	27.7	28.7	29.1
	INTERNAL YIELD PRESSURE (MPa)		28.8	42.0	42.0	47.2	49.8	57.7	65.6	78.7
	BODY YIELD STRENGTH (kN)		1403	2040	2040	2295	2423	2805	3188	3826
	ULTIMATE STRENGTH (kN)		2423	2550	2423	2550	2678	3188	3443	4081
	YIELD TORQUE (Nm)		62470	90870	90870	102230	107910	124950	141990	170380

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	6890	7780	7780	8220	8220	8750	9270	10130
		OPTIMUM (Nm)	7650	8640	8640	9120	9120	9710	10290	11250
		MAXIMUM (Nm)	8410	9490	9490	10030	10030	10670	11310	12380
	SPECIAL CLEARANCE	MINIMUM (Nm)	6890	7780	7780	8220	8220	8750	9270	10130
		OPTIMUM (Nm)	7650	8640	8640	9120	9120	9710	10290	11250
MAXIMUM (Nm)		8410	9490	9490	10030	10030	10670	11310	12380	

C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		20.5	23.9	23.9	25.5	26.1	27.7	28.7	29.1	
	INTERNAL YIELD PRESSURE (MPa)		28.8	42.0	42.0	47.2	49.8	57.7	65.6	78.7	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		1745	2538	2538	2855	3013	3489	3965	4758	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		644	936	936	1054	1112	1288	1463	1756	
			PARTING LOAD (kN)								
	REGULAR COUPLING O.D.		2016	2262	2175	2326	2445	2892	3162	3760	
	SPECIAL CLEARANCE COUPLING O.D.		2016	2194	2084	2194	2303	2742	2961	3510	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m ³)		
	REGULAR COUPLING	W	188.29	154.15	13.91		169		0.03550		
	SPECIAL CLEARANCE COUPLING	Wc	178.21	154.15	7.07		91		0.03462		
LENGTH OF COUPLING (mm)	NL	300.46									
MAKE UP LOSS (mm)	ML	126.11									

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TECHNICAL INFORMATION

CASING

SIZE:	168.28 mm
NOMINAL WEIGHT:	34.53 kg/m
WALL THICKNESS:	8.38 mm
THREADS PER INCH:	5



PIPE BODY	OUTSIDE DIA.(mm)D	168.28	INSIDE DIA.(mm) d	151.51	DRIFT DIA. (mm)			148.34	PLAIN END WT (kg/m)		33.02
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)		27.7	34.1	34.1	35.9	36.7	38.4	40.2	43.1	
	INTERNAL YIELD PRESSURE (MPa)		33.1	48.1	48.1	54.1	57.1	66.1	75.1	90.2	
	BODY YIELD STRENGTH (kN)		1597	2322	2322	2613	2758	3193	3629	4354	
	ULTIMATE STRENGTH (kN)		2758	2903	2758	2903	3048	3629	3919	4645	
	YIELD TORQUE (Nm)		70220	102140	102140	114900	121290	140440	159590	191500	

MAKEUP	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	7590	8470	8470	8830	8830	9720	10130	11080
		OPTIMUM (Nm)	8430	9410	9410	9800	9800	10790	11250	12310
		MAXIMUM (Nm)	9270	10340	10340	10780	10780	11860	12380	13530
	SPECIAL CLEARANCE	MINIMUM (Nm)	7590	8470	8470	8830	8830	9720	10130	11080
		OPTIMUM (Nm)	8430	9410	9410	9800	9800	10790	11250	12310
MAXIMUM (Nm)		9270	10340	10340	10780	10780	11860	12380	13530	

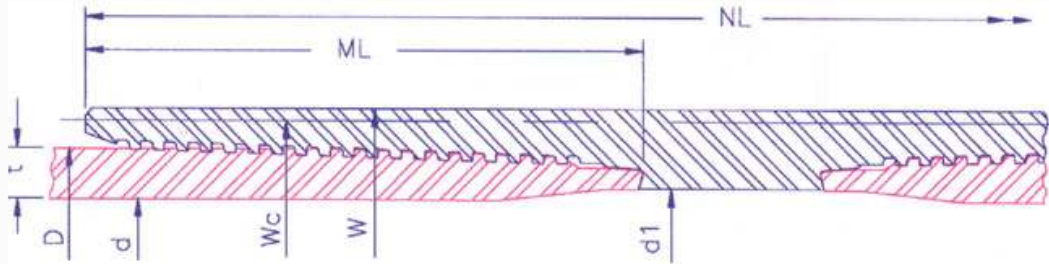
CONNECTION	COLLAPSE RESISTANCE (MPa)		27.7	34.1	34.1	35.9	36.7	38.4	40.2	43.1
	INTERNAL YIELD PRESSURE (MPa)		33.1	48.1	48.1	54.1	57.1	66.1	75.1	90.2
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		1745	2538	2538	2855	3013	3489	3965	4758
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		644	936	936	1054	1112	1288	1463	1756
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		2294	2575	2475	2648	2783	3291	3599	4279
	SPECIAL CLEARANCE COUPLING O.D.		2084	2194	2084	2194	2303	2742	2961	3510
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	188.29	154.15	13.91		149		0.04012
	SPECIAL CLEARANCE COUPLING		Wc	178.21	154.15	7.07		80		0.03925
LENGTH OF COUPLING (mm)		NL	300.46							
MAKE UP LOSS (mm)		ML	126.11							

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TECHNICAL INFORMATION

CASING

SIZE:	168.28 mm
NOMINAL WEIGHT:	35.72 kg/m
WALL THICKNESS:	8.94 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	168.28	INSIDE DIA.(mm) d	150.39	DRIFT DIA. (mm)			147.22	PLAIN END WT (kg/m)		35.09
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)		31.4	39.7	39.7	42.3	43.5	46.4	48.4	50.6	
	INTERNAL YIELD PRESSURE (MPa)		35.3	51.3	51.3	57.7	60.9	70.5	80.1	96.2	
	BODY YIELD STRENGTH (kN)		1697	2469	2469	2777	2931	3394	3857	4629	
	ULTIMATE STRENGTH (kN)		2931	3086	2931	3086	3240	3857	4166	4937	
	YIELD TORQUE (Nm)		74150	107850	107850	121330	128070	148290	168510	202220	

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	8470	9720	9720	10130	10130	10620	11470	12410
		OPTIMUM (Nm)	9410	10790	10790	11250	11250	11800	12740	13760
		MAXIMUM (Nm)	10340	11860	11860	12380	12380	12980	14020	15120
	SPECIAL CLEARANCE	MINIMUM (Nm)	8470	9720	9720	10130	10130	10620	11470	12410
		OPTIMUM (Nm)	9410	10790	10790	11250	11250	11800	12740	13760
MAXIMUM (Nm)		10340	11860	11860	12380	12380	12980	14020	15120	

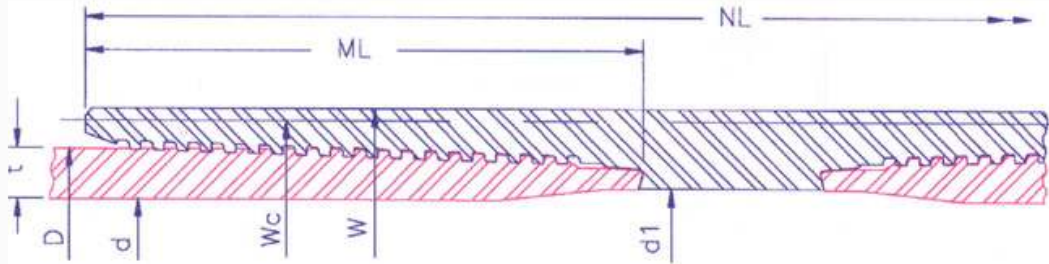
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		31.4	39.7	39.7	42.3	43.5	46.4	48.4	50.6
	INTERNAL YIELD PRESSURE (MPa)		35.3	51.3	51.3	57.7	60.9	70.5	80.1	96.2
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		1745	2538	2538	2855	3013	3489	3965	4758
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		644	936	936	1054	1112	1288	1463	1756
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		2439	2737	2631	2814	2959	3498	3826	4549
	SPECIAL CLEARANCE COUPLING O.D.		2084	2194	2084	2194	2303	2742	2961	3510
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	188.29	153.14	14.01		140		0.04254
	SPECIAL CLEARANCE COUPLING		Wc	178.21	153.14	7.17		75		0.04167
LENGTH OF COUPLING (mm)		NL	300.46							
MAKE UP LOSS (mm)		ML	126.11							

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TECHNICAL INFORMATION

CASING

SIZE:	168.28 mm
NOMINAL WEIGHT:	41.67 kg/m
WALL THICKNESS:	10.59 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	168.28	INSIDE DIA.(mm) d	147.09	DRIFT DIA. (mm)			143.92	PLAIN END WT (kg/m)		41.15
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)		42.6	56.3	56.3	61.2	63.6	70.1	75.8	83.6	
	INTERNAL YIELD PRESSURE (MPa)		41.8	60.8	60.8	68.4	72.1	83.5	94.9	113.9	
	BODY YIELD STRENGTH (kN)		1990	2894	2894	3256	3437	3979	4522	5426	
	ULTIMATE STRENGTH (kN)		3437	3618	3437	3618	3799	4522	4884	5788	
	YIELD TORQUE (Nm)		85250	124000	124000	139500	147250	170500	193750	232500	

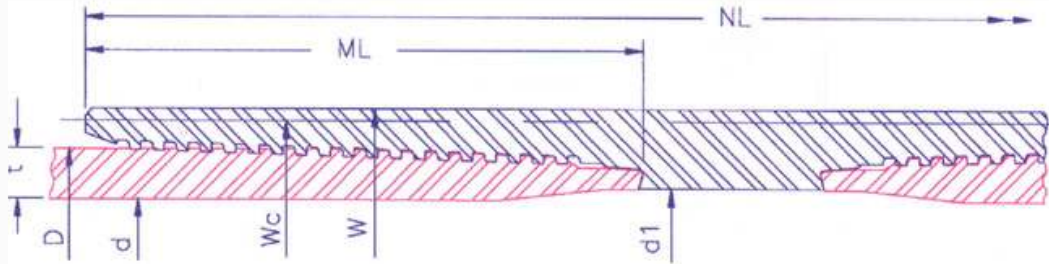
M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
	REGULAR	MINIMUM (Nm)	10620	11900	11900	12880	12880	13690	14170	15860	
		OPTIMUM (Nm)	11800	13220	13220	14240	14240	15190	15660	17630	
		MAXIMUM (Nm)	12980	14530	14530	15590	15590	16680	17150	19390	
	SPECIAL CLEARANCE	MINIMUM (Nm)	10620	11900	11900	12880	12880	13690	14170	15860	
		OPTIMUM (Nm)	11800	13220	13220	14240	14240	15190	15660	17630	
MAXIMUM (Nm)		12980	14530	14530	15590	15590	16680	17150	19390		

C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		42.6	56.3	56.3	61.2	63.6	70.1	75.8	83.6	
	INTERNAL YIELD PRESSURE (MPa)		41.8	60.8	60.8	68.4	72.1	83.5	94.9	113.9	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		1745	2538	2538	2855	3013	3489	3965	4758	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		644	936	936	1054	1112	1288	1463	1756	
	PARTING LOAD (kN)										
	REGULAR COUPLING O.D.		2859	3209	3085	3299	3469	4102	4486	5333	
	SPECIAL CLEARANCE COUPLING O.D.		2084	2194	2084	2194	2303	2742	2961	3510	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)		
	REGULAR COUPLING		W	188.29	151.26	14.19		119		0.04956	
	SPECIAL CLEARANCE COUPLING		Wc	178.21	151.26	7.35		64		0.04869	
LENGTH OF COUPLING (mm)		NL	300.46		The above information is for reference only. The information is subject to change or modification without notice. Please contact HSC for the latest information						
MAKE UP LOSS (mm)		ML	126.11								

TECHNICAL INFORMATION

CASING

SIZE:	168.28 mm
NOMINAL WEIGHT:	47.62 kg/m
WALL THICKNESS:	12.06 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	168.28	INSIDE DIA.(mm) d	144.15	DRIFT DIA. (mm)			PLAIN END WT (kg/m)		46.43
	GRADE	K55		N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)	50.5		71.2	71.2	78.1	81.5	91.2	100.2	113.8
	INTERNAL YIELD PRESSURE (MPa)	47.6		69.2	69.2	77.9	82.2	95.2	108.1	129.8
	BODY YIELD STRENGTH (kN)	2245		3266	3266	3674	3878	4491	5103	6123
	ULTIMATE STRENGTH (kN)	3878		4082	3878	4082	4286	5103	5511	6532
	YIELD TORQUE (Nm)	94550		137530	137530	154720	163310	189100	214880	257860

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	11050	12880	12880	13690	13690	14170	15050	16880
		OPTIMUM (Nm)	12270	14240	14240	15190	15190	15660	16680	18640
		MAXIMUM (Nm)	13490	15590	15590	16680	16680	17150	18300	20410
	SPECIAL CLEARANCE	MINIMUM (Nm)	11050	12880	12880	13690	13690	14170	15050	16880
		OPTIMUM (Nm)	12270	14240	14240	15190	15190	15660	16680	18640
MAXIMUM (Nm)		13490	15590	15590	16680	16680	17150	18300	20410	

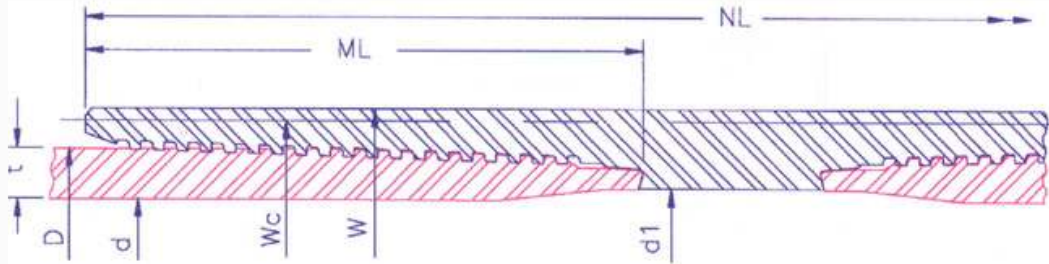
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		50.5	71.2	71.2	78.1	81.5	91.2	100.2	113.8
	INTERNAL YIELD PRESSURE (MPa)		47.6	69.2	69.2	77.9	82.2	95.2	108.1	129.8
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		1745	2538	2538	2855	3013	3489	3965	4758
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		644	936	936	1054	1112	1288	1463	1756
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		3227	3621	3481	3723	3914	4628	5062	6018
	SPECIAL CLEARANCE COUPLING O.D.		2084	2194	2084	2194	2303	2742	2961	3510
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	188.29	151.26	14.19		106		0.05563
	SPECIAL CLEARANCE COUPLING		Wc	178.21	151.26	7.35		57		0.05476
LENGTH OF COUPLING (mm)		NL	300.46							
MAKE UP LOSS (mm)		ML	126.11							

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TECHNICAL INFORMATION

CASING

SIZE:	168.28 mm
NOMINAL WEIGHT:	52.09 kg/m
WALL THICKNESS:	13.34 mm
THREADS PER INCH:	5



PIPE BODY	OUTSIDE DIA.(mm)D	168.28	INSIDE DIA.(mm) d	141.60	DRIFT DIA. (mm)			138.43	PLAIN END WT (kg/m)		50.90
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)		55.3	80.5	80.5	90.6	95.6	109.4	121.3	139.8	
	INTERNAL YIELD PRESSURE (MPa)		52.6	76.5	76.5	86.1	90.8	105.2	119.5	143.4	
	BODY YIELD STRENGTH (kN)		2461	3580	3580	4028	4252	4923	5594	6713	
	ULTIMATE STRENGTH (kN)		4252	4475	4252	4475	4699	5594	6042	7161	
	YIELD TORQUE (Nm)		102120	148540	148540	167110	176390	204240	232090	278510	

MAKEUP	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	11900	13350	13350	14170	14170	15050	15860	17840
		OPTIMUM (Nm)	13220	14710	14710	15660	15660	16680	17630	19700
		MAXIMUM (Nm)	14530	16070	16070	17150	17150	18300	19390	21570
	SPECIAL CLEARANCE	MINIMUM (Nm)	11900	13350	13350	14170	14170	15050	15860	17840
		OPTIMUM (Nm)	13220	14710	14710	15660	15660	16680	17630	19700
MAXIMUM (Nm)		14530	16070	16070	17150	17150	18300	19390	21570	

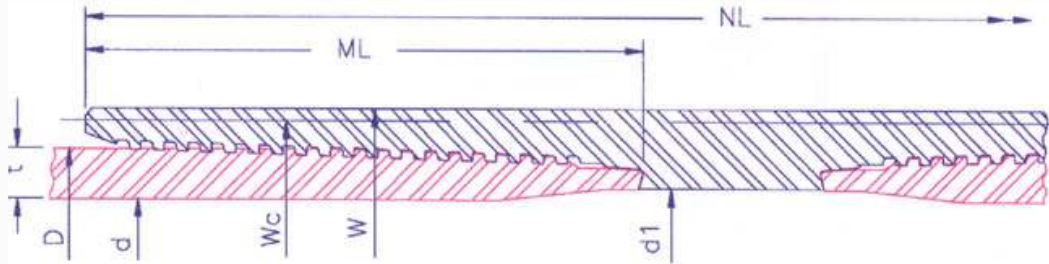
CONNECTION	COLLAPSE RESISTANCE (MPa)		55.3	80.5	80.5	90.6	95.6	109.4	121.3	139.8
	INTERNAL YIELD PRESSURE (MPa)		52.6	76.5	76.5	86.1	90.8	105.2	119.5	143.4
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		1745	2538	2538	2855	3013	3489	3965	4758
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		644	936	936	1054	1112	1288	1463	1756
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		3537	3970	3816	4081	4291	5074	5528	6552
	SPECIAL CLEARANCE COUPLING O.D.		2084	2194	2084	2194	2303	2742	2961	3510
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	188.29	151.26	14.19		96		0.06075
	SPECIAL CLEARANCE COUPLING		Wc	178.21	151.26	7.35		52		0.05988
LENGTH OF COUPLING (mm)		NL	300.46							
MAKE UP LOSS (mm)		ML	126.11							

The above information is for reference only. The information is subject to change or modification without notice. Please contact HSC for the latest information

TECHNICAL INFORMATION

CASING

SIZE:	177.80 mm
NOMINAL WEIGHT:	34.23 kg/m
WALL THICKNESS:	8.05 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	177.80	INSIDE DIA.(mm) d	161.70	DRIFT DIA. (mm)			158.52	PLAIN END WT (kg/m)		33.68
	GRADE	K55		N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)	22.5		26.4	26.4	27.7	28.5	30.6	32.0	32.9	
	INTERNAL YIELD PRESSURE (MPa)	30.1		43.7	43.7	49.2	51.9	60.1	68.3	82.0	
	BODY YIELD STRENGTH (kN)	1628		2368	2368	2664	2812	3257	3701	4441	
	ULTIMATE STRENGTH (kN)	2812		2961	2812	2961	3109	3701	3997	4737	
	YIELD TORQUE (Nm)	76350		111050	111050	124930	131870	152690	173520	208220	

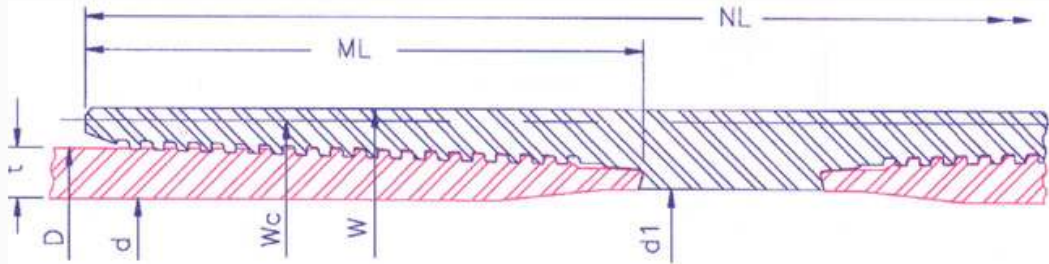
M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	7590	8570	8570	9270	9270	9720	10130	11470
		OPTIMUM (Nm)	8430	9520	9520	10290	10290	10790	11250	12740
		MAXIMUM (Nm)	9270	10470	10470	11310	11310	11860	12380	14020
	SPECIAL CLEARANCE	MINIMUM (Nm)	7590	8570	8570	9270	9270	9720	10130	11470
		OPTIMUM (Nm)	8430	9520	9520	10290	10290	10790	11250	12740
MAXIMUM (Nm)		9270	10470	10470	11310	11310	11860	12380	14020	

C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		22.5	26.4	26.4	27.7	28.5	30.6	32.0	32.9
	INTERNAL YIELD PRESSURE (MPa)		30.1	43.7	43.7	49.2	51.9	60.1	68.3	82.0
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		1384	2013	2013	2264	2390	2767	3145	3774
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		541	787	787	885	934	1082	1229	1475
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		2320	2614	2515	2692	2831	3346	3662	4354
	SPECIAL CLEARANCE COUPLING O.D.		2264	2383	2264	2383	2503	2979	3218	3814
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	195.10	163.25	14.81		137		0.04081
	SPECIAL CLEARANCE COUPLING		Wc	187.71	163.25	9.35		85		0.04012
LENGTH OF COUPLING (mm)		NL	313.46		The above information is for reference only. The information is subject to change or modification without notice. Please contact HSC for the latest information					
MAKE UP LOSS (mm)		ML	132.79							

TECHNICAL INFORMATION

CASING

SIZE:	177.80 mm
NOMINAL WEIGHT:	38.69 kg/m
WALL THICKNESS:	9.19 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	177.80	INSIDE DIA.(mm) d	159.41	DRIFT DIA. (mm)	156.24	PLAIN END WT (kg/m)			38.19
	GRADE	K55		N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)	29.8		37.3	37.3	39.6	40.6	43.0	44.5	47.4
	INTERNAL YIELD PRESSURE (MPa)	34.3		49.9	49.9	56.2	59.3	68.6	78.0	93.6
	BODY YIELD STRENGTH (kN)	1847		2686	2686	3022	3190	3694	4198	5037
	ULTIMATE STRENGTH (kN)	3190		3358	3190	3358	3526	4198	4533	5373
	YIELD TORQUE (Nm)	85500		124360	124360	139910	147680	171000	194310	233180

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	8830	10130	10130	10620	10620	11470	12410	13350
		OPTIMUM (Nm)	9800	11250	11250	11800	11800	12740	13760	14710
		MAXIMUM (Nm)	10780	12380	12380	12980	12980	14020	15120	16070
	SPECIAL CLEARANCE	MINIMUM (Nm)	8830	10130	10130	10620	10620	11470	12410	13350
		OPTIMUM (Nm)	9800	11250	11250	11800	11800	12740	13760	14710
MAXIMUM (Nm)		10780	12380	12380	12980	12980	14020	15120	16070	

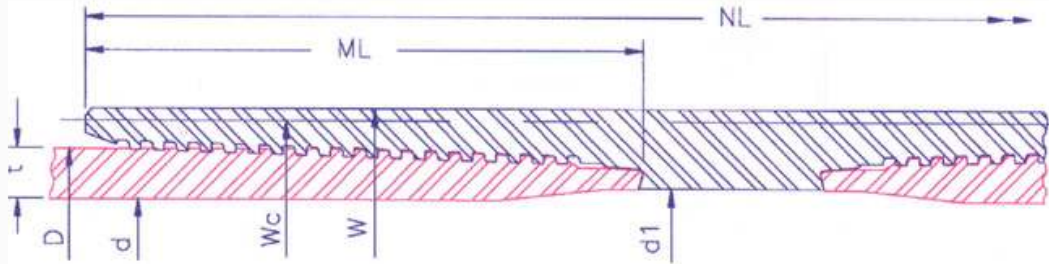
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)	29.8		37.3	37.3	39.6	40.6	43.0	44.5	47.4	
	INTERNAL YIELD PRESSURE (MPa)	34.3		49.9	49.9	56.2	59.3	68.6	78.0	93.6	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)	1384		2013	2013	2264	2390	2767	3145	3774	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)	541		787	787	885	934	1082	1229	1475	
	PARTING LOAD (kN)										
	REGULAR COUPLING O.D.	2631		2965	2852	3054	3211	3795	4154	4939	
	SPECIAL CLEARANCE COUPLING O.D.	2264		2383	2264	2383	2503	2979	3218	3814	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)			JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING	W	195.10	162.26	14.91			120		0.04605	
	SPECIAL CLEARANCE COUPLING	Wc	187.71	162.26	9.45			75		0.04536	
LENGTH OF COUPLING (mm)	NL	313.46									
MAKE UP LOSS (mm)	ML	132.79									

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TECHNICAL INFORMATION

CASING

SIZE:	177.80 mm
NOMINAL WEIGHT:	43.16 kg/m
WALL THICKNESS:	10.36 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	177.80	INSIDE DIA.(mm) d	157.07	DRIFT DIA. (mm)			153.90	PLAIN END WT (kg/m)		42.74
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)		37.3	48.4	48.4	52.3	54.0	58.8	62.8	67.5	
	INTERNAL YIELD PRESSURE (MPa)		38.7	56.3	56.3	63.3	66.8	77.4	87.9	105.5	
	BODY YIELD STRENGTH (kN)		2067	3007	3007	3383	3571	4134	4698	5638	
	ULTIMATE STRENGTH (kN)		3571	3758	3571	3758	3946	4698	5074	6014	
	YIELD TORQUE (Nm)		94450	137390	137390	154560	163150	188910	214670	257600	

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
	REGULAR	MINIMUM (Nm)	10130	11470	11470	12410	12410	13350	14170	15520	
		OPTIMUM (Nm)	11250	12740	12740	13760	13760	14710	15660	17150	
		MAXIMUM (Nm)	12380	14020	14020	15120	15120	16070	17150	18780	
	SPECIAL CLEARANCE	MINIMUM (Nm)	10130	11470	11470	12410	12410	13350	14170	15520	
		OPTIMUM (Nm)	11250	12740	12740	13760	13760	14710	15660	17150	
MAXIMUM (Nm)		12380	14020	14020	15120	15120	16070	17150	18780		

C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		37.3	48.4	48.4	52.3	54.0	58.8	62.8	67.5	
	INTERNAL YIELD PRESSURE (MPa)		38.7	56.3	56.3	63.3	66.8	77.4	87.9	105.5	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		1384	2013	2013	2264	2390	2767	3145	3774	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		541	787	787	885	934	1082	1229	1475	
	PARTING LOAD (kN)										
	REGULAR COUPLING O.D.		2945	3319	3193	3418	3594	4248	4649	5528	
	SPECIAL CLEARANCE COUPLING O.D.		2264	2383	2264	2383	2503	2979	3218	3814	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)		
	REGULAR COUPLING		W	195.10	161.04	15.03		108		0.05133	
	SPECIAL CLEARANCE COUPLING		Wc	187.71	161.04	9.57		67		0.05064	
LENGTH OF COUPLING (mm)		NL	313.46		The above information is for reference only. The information is subject to change or modification without notice. Please contact HSC for the latest information						
MAKE UP LOSS (mm)		ML	132.79								

TECHNICAL INFORMATION

CASING

SIZE:	177.80 mm
NOMINAL WEIGHT:	47.62 kg/m
WALL THICKNESS:	11.51 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	177.80	INSIDE DIA.(mm) d	154.79	DRIFT DIA. (mm)			PLAIN END WT (kg/m)		47.13
	GRADE	K55		N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)	44.6		59.3	59.3	64.6	67.2	74.3	80.7	89.7
	INTERNAL YIELD PRESSURE (MPa)	42.9		62.5	62.5	70.3	74.2	85.9	97.6	117.1
	BODY YIELD STRENGTH (kN)	2279		3316	3316	3730	3937	4559	5181	6217
	ULTIMATE STRENGTH (kN)	3937		4145	3937	4145	4352	5181	5595	6631
	YIELD TORQUE (Nm)	102840		149580	149580	168280	177630	205670	233720	280460

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	11050	12410	12410	13350	13350	14170	15050	16410
		OPTIMUM (Nm)	12270	13760	13760	14710	14710	15660	16680	18170
		MAXIMUM (Nm)	13490	15120	15120	16070	16070	17150	18300	19930
	SPECIAL CLEARANCE	MINIMUM (Nm)	11050	12410	12410	13350	13350	14170	15050	16410
		OPTIMUM (Nm)	12270	13760	13760	14710	14710	15660	16680	18170
MAXIMUM (Nm)		13490	15120	15120	16070	16070	17150	18300	19930	

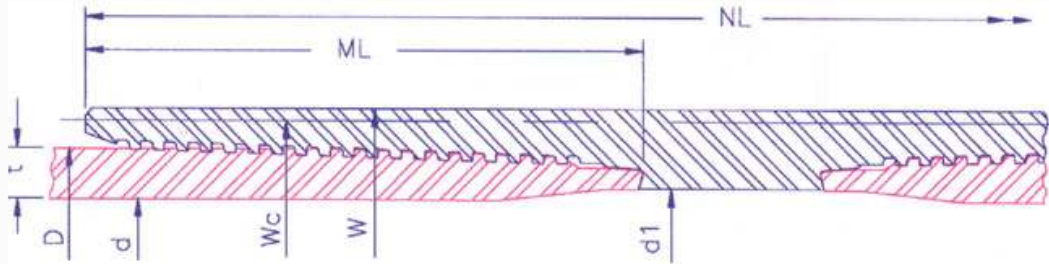
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)	44.6		59.3	59.3	64.6	67.2	74.3	80.7	89.7	
	INTERNAL YIELD PRESSURE (MPa)	42.9		62.5	62.5	70.3	74.2	85.9	97.6	117.1	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)	1384		2013	2013	2264	2390	2767	3145	3774	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)	541		787	787	885	934	1082	1229	1475	
		PARTING LOAD (kN)									
	REGULAR COUPLING O.D.	3248		3660	3521	3769	3963	4684	5126	6096	
	SPECIAL CLEARANCE COUPLING O.D.	2264		2383	2264	2383	2503	2979	3218	3814	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)		
	REGULAR COUPLING	W	195.10	161.04	15.03		98		0.05638		
	SPECIAL CLEARANCE COUPLING	Wc	187.71	161.04	9.57		61		0.05568		
LENGTH OF COUPLING (mm)	NL	313.46									
MAKE UP LOSS (mm)	ML	132.79									

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TECHNICAL INFORMATION

CASING

SIZE:	177.80 mm
NOMINAL WEIGHT:	52.09 kg/m
WALL THICKNESS:	12.65 mm
THREADS PER INCH:	5



PIPE BODY	OUTSIDE DIA.(mm)D	177.80	INSIDE DIA.(mm) d	152.50	DRIFT DIA. (mm)	149.33	PLAIN END WT (kg/m)			51.46
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		50.1	70.2	70.2	77.0	80.3	89.8	98.7	111.9
	INTERNAL YIELD PRESSURE (MPa)		47.2	68.7	68.7	77.3	81.5	94.4	107.3	128.8
	BODY YIELD STRENGTH (kN)		2489	3620	3620	4072	4299	4977	5656	6787
	ULTIMATE STRENGTH (kN)		4299	4525	4299	4525	4751	5656	6109	7240
	YIELD TORQUE (Nm)		110850	161240	161240	181400	191480	221710	251940	302330

MAKEUP	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	11470	12880	12880	13690	13690	14710	15520	16880
		OPTIMUM (Nm)	12740	14240	14240	15190	15190	16200	17150	18640
		MAXIMUM (Nm)	14020	15590	15590	16680	16680	17690	18780	20410
	SPECIAL CLEARANCE	MINIMUM (Nm)	11470	12880	12880	13690	13690	14710	15520	16880
		OPTIMUM (Nm)	12740	14240	14240	15190	15190	16200	17150	18640
MAXIMUM (Nm)		14020	15590	15590	16680	16680	17690	18780	20410	

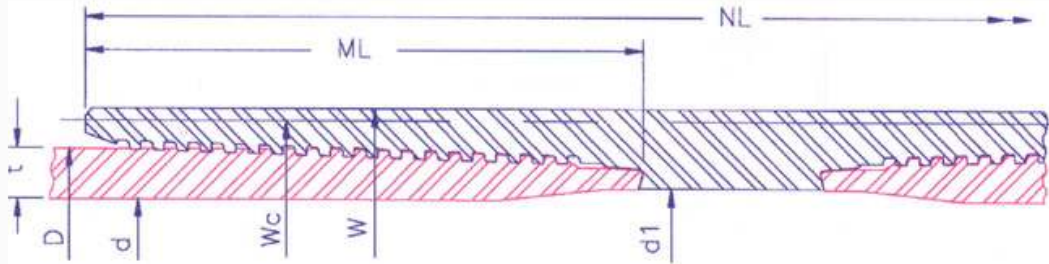
CONNECTION	COLLAPSE RESISTANCE (MPa)		50.1	70.2	70.2	77.0	80.3	89.8	98.7	111.9
	INTERNAL YIELD PRESSURE (MPa)		47.2	68.7	68.7	77.3	81.5	94.4	107.3	128.8
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		1384	2013	2013	2264	2390	2767	3145	3774
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		541	787	787	885	934	1082	1229	1475
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		3546	3839	3647	3839	4031	4799	5183	6142
	SPECIAL CLEARANCE COUPLING O.D.		2264	2383	2264	2383	2503	2979	3218	3814
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	195.10	161.04	15.03		89		0.06134
	SPECIAL CLEARANCE COUPLING		Wc	187.71	161.04	9.57		55		0.06064
LENGTH OF COUPLING (mm)		NL	313.46							
MAKE UP LOSS (mm)		ML	132.79							

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TECHNICAL INFORMATION

CASING

SIZE:	177.80 mm
NOMINAL WEIGHT:	56.55 kg/m
WALL THICKNESS:	13.72 mm
THREADS PER INCH:	5



PIPE BODY	OUTSIDE DIA.(mm)D	177.80	INSIDE DIA.(mm) d	150.37	DRIFT DIA. (mm)			147.19	PLAIN END WT (kg/m)		55.45
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)		54.0	78.5	78.5	88.4	92.6	104.3	115.4	132.6	
	INTERNAL YIELD PRESSURE (MPa)		51.2	74.5	74.5	83.8	88.4	102.4	116.3	139.6	
	BODY YIELD STRENGTH (kN)		2681	3900	3900	4387	4631	5362	6094	7312	
	ULTIMATE STRENGTH (kN)		4631	4875	4631	4875	5119	6094	6581	7800	
	YIELD TORQUE (Nm)		118020	171670	171670	193130	203850	236040	268230	321880	

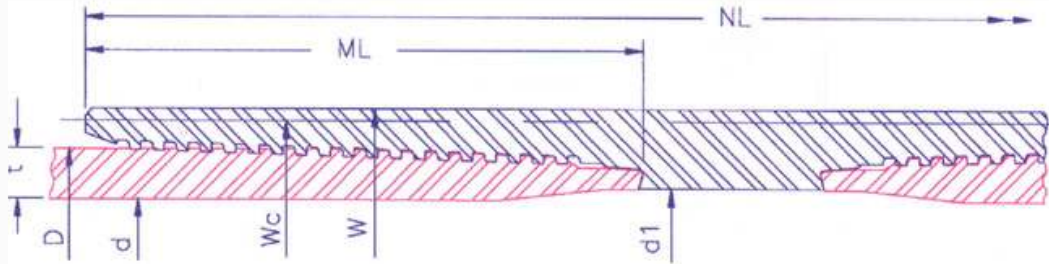
MAKEUP	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
	REGULAR	MINIMUM (Nm)	11900	13690	13690	14170	14170	15050	15860	17690	
		OPTIMUM (Nm)	13220	15190	15190	15660	15660	16680	17630	19590	
		MAXIMUM (Nm)	14530	16680	16680	17150	17150	18300	19390	21490	
	SPECIAL CLEARANCE	MINIMUM (Nm)	11900	13690	13690	14170	14170	15050	15860	17690	
		OPTIMUM (Nm)	13220	15190	15190	15660	15660	16680	17630	19590	
MAXIMUM (Nm)		14530	16680	16680	17150	17150	18300	19390	21490		

CONNECTION	COLLAPSE RESISTANCE (MPa)		54.0	78.5	78.5	88.4	92.6	104.3	115.4	132.6	
	INTERNAL YIELD PRESSURE (MPa)		51.2	74.5	74.5	83.8	88.4	102.4	116.3	139.6	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		1384	2013	2013	2264	2390	2767	3145	3774	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		541	787	787	885	934	1082	1229	1475	
	PARTING LOAD (kN)										
	REGULAR COUPLING O.D.		3647	3839	3647	3839	4031	4799	5183	6142	
	SPECIAL CLEARANCE COUPLING O.D.		2264	2383	2264	2383	2503	2979	3218	3814	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)		
	REGULAR COUPLING		W	195.10	161.04	15.03		83		0.06589	
	SPECIAL CLEARANCE COUPLING		Wc	187.71	161.04	9.57		52		0.06520	
LENGTH OF COUPLING (mm)		NL	313.46		The above information is for reference only. The information is subject to change or modification without notice. Please contact HSC for the latest information						
MAKE UP LOSS (mm)		ML	132.79								

TECHNICAL INFORMATION

CASING

SIZE:	177.80 mm
NOMINAL WEIGHT:	61.01 kg/m
WALL THICKNESS:	14.99 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	177.80	INSIDE DIA.(mm) d	147.83	DRIFT DIA. (mm)			PLAIN END WT (kg/m)		
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		58.5	85.1	85.1	95.8	101.1	117.1	133.0	157.2
	INTERNAL YIELD PRESSURE (MPa)		55.9	81.4	81.4	91.5	96.6	111.9	127.1	152.5
	BODY YIELD STRENGTH (kN)		2907	4228	4228	4757	5021	5814	6606	7928
	ULTIMATE STRENGTH (kN)		5021	5285	5021	5285	5549	6606	7135	8456
	YIELD TORQUE (Nm)		126160	183510	183510	206450	217920	252330	286740	344080

RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
M A K E U P	REGULAR	MINIMUM (Nm)	12880	14170	14170	15050	15050	15860	16880	18710
		OPTIMUM (Nm)	14240	15660	15660	16680	16680	17630	18640	20720
		MAXIMUM (Nm)	15590	17150	17150	18300	18300	19390	20410	22720
	SPECIAL CLEARANCE	MINIMUM (Nm)	12880	14170	14170	15050	15050	15860	16880	18710
		OPTIMUM (Nm)	14240	15660	15660	16680	16680	17630	18640	20720
		MAXIMUM (Nm)	15590	17150	17150	18300	18300	19390	20410	22720

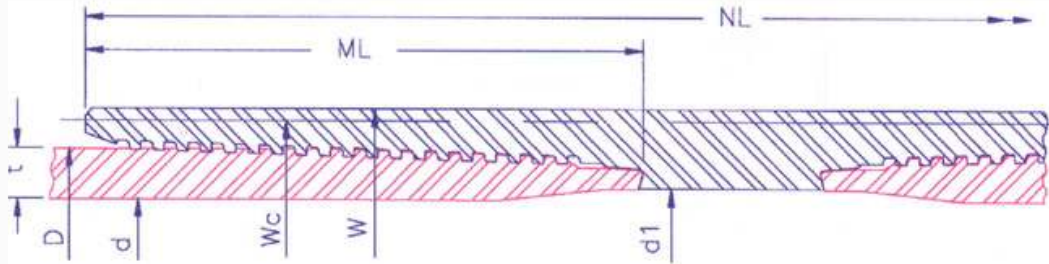
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		58.5	85.1	85.1	95.8	101.1	117.1	133.0	157.2	
	INTERNAL YIELD PRESSURE (MPa)		55.9	81.4	81.4	91.5	96.6	111.9	127.1	152.5	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		1384	2013	2013	2264	2390	2767	3145	3774	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		541	787	787	885	934	1082	1229	1475	
	PARTING LOAD (kN)										
	REGULAR COUPLING O.D.		3647	3839	3647	3839	4031	4799	5183	6142	
	SPECIAL CLEARANCE COUPLING O.D.		2264	2383	2264	2383	2503	2979	3218	3814	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)		
	REGULAR COUPLING		W	195.10	161.04	15.03		77		0.07122	
	SPECIAL CLEARANCE COUPLING		Wc	187.71	161.04	9.57		48		0.07052	
	LENGTH OF COUPLING (mm)		NL	313.46							
MAKE UP LOSS (mm)		ML	132.79								

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TECHNICAL INFORMATION

CASING

SIZE:	193.68 mm
NOMINAL WEIGHT:	39.29 kg/m
WALL THICKNESS:	8.33 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	193.68	INSIDE DIA.(mm) d	177.01	DRIFT DIA. (mm)			173.84	PLAIN END WT (kg/m)		38.04
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)		20.0	23.4	23.4	24.9	25.5	27.0	27.9	28.1	
	INTERNAL YIELD PRESSURE (MPa)		28.5	41.5	41.5	46.7	49.3	57.1	64.9	77.9	
	BODY YIELD STRENGTH (kN)		1840	2676	2676	3010	3177	3679	4181	5017	
	ULTIMATE STRENGTH (kN)		3177	3345	3177	3345	3512	4181	4515	5351	
	YIELD TORQUE (Nm)		94380	137280	137280	154440	163020	188760	214500	257400	

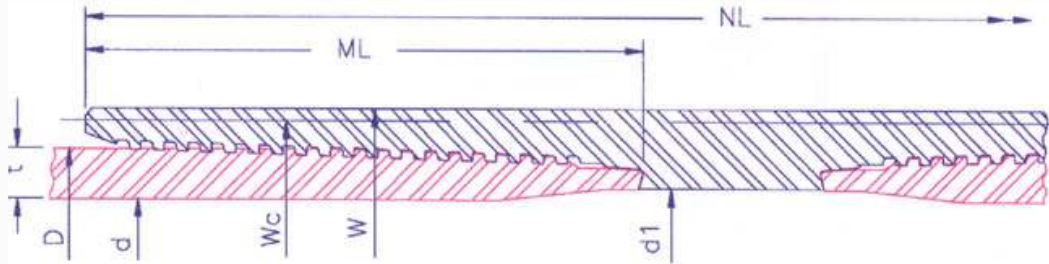
M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
	REGULAR	MINIMUM (Nm)	8750	9720	9720	10620	10620	11050	11900	13350	
		OPTIMUM (Nm)	9710	10790	10790	11800	11800	12270	13220	14710	
		MAXIMUM (Nm)	10670	11860	11860	12980	12980	13490	14530	16070	
	SPECIAL CLEARANCE	MINIMUM (Nm)	8750	9720	9720	10620	10620	11050	11900	13350	
		OPTIMUM (Nm)	9710	10790	10790	11800	11800	12270	13220	14710	
MAXIMUM (Nm)		10670	11860	11860	12980	12980	13490	14530	16070		

C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		20.0	23.4	23.4	24.9	25.5	27.0	27.9	28.1	
	INTERNAL YIELD PRESSURE (MPa)		28.5	41.5	41.5	46.7	49.3	57.1	64.9	77.9	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		2194	3191	3191	3590	3790	4388	4986	5983	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		958	1393	1393	1567	1654	1915	2176	2611	
	PARTING LOAD (kN)										
	REGULAR COUPLING O.D.		2583	2931	2823	3027	3183	3760	4120	4901	
	SPECIAL CLEARANCE COUPLING O.D.		2583	2931	2823	3027	3183	3760	4120	4901	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m ³)		
	REGULAR COUPLING		W	216.61	178.84	28.55		172		0.04669	
	SPECIAL CLEARANCE COUPLING		Wc	206.81	178.84	20.30		105		0.04564	
LENGTH OF COUPLING (mm)		NL	322.45		The above information is for reference only. The information is subject to change or modification without notice. Please contact HSC for the latest information						
MAKE UP LOSS (mm)		ML	137.31								

TECHNICAL INFORMATION

CASING

SIZE:	193.68 mm
NOMINAL WEIGHT:	44.20 kg/m
WALL THICKNESS:	9.52 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	193.68	INSIDE DIA.(mm) d	174.62	DRIFT DIA. (mm)			PLAIN END WT (kg/m)		43.22
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		27.0	33.0	33.0	34.7	35.4	36.9	39.1	41.7
	INTERNAL YIELD PRESSURE (MPa)		32.6	47.5	47.5	53.4	56.4	65.3	74.2	89.0
	BODY YIELD STRENGTH (kN)		2090	3039	3039	3419	3609	4179	4749	5699
	ULTIMATE STRENGTH (kN)		3609	3799	3609	3799	3989	4749	5129	6079
	YIELD TORQUE (Nm)		105900	154040	154040	173300	182920	211810	240690	288830

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	10130	11470	11470	12410	12410	13350	14170	15520
		OPTIMUM (Nm)	11250	12740	12740	13760	13760	14710	15660	17150
		MAXIMUM (Nm)	12380	14020	14020	15120	15120	16070	17150	18780
	SPECIAL CLEARANCE	MINIMUM (Nm)	10130	11470	11470	12410	12410	13350	14170	15520
		OPTIMUM (Nm)	11250	12740	12740	13760	13760	14710	15660	17150
MAXIMUM (Nm)		12380	14020	14020	15120	15120	16070	17150	18780	

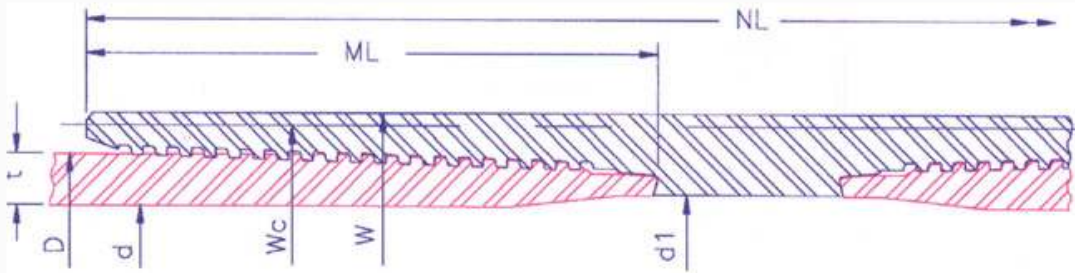
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		27.0	33.0	33.0	34.7	35.4	36.9	39.1	41.7	
	INTERNAL YIELD PRESSURE (MPa)		32.6	47.5	47.5	53.4	56.4	65.3	74.2	89.0	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		2194	3191	3191	3590	3790	4388	4986	5983	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		958	1393	1393	1567	1654	1915	2176	2611	
			PARTING LOAD (kN)								
	REGULAR COUPLING O.D.		2934	3330	3207	3439	3616	4271	4681	5567	
	SPECIAL CLEARANCE COUPLING O.D.		2934	3330	3171	3338	3505	4172	4506	5341	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)		
	REGULAR COUPLING	W	216.61	177.85	28.66		152		0.05268		
	SPECIAL CLEARANCE COUPLING	Wc	206.81	177.85	20.41		93		0.05163		
LENGTH OF COUPLING (mm)	NL	322.45									
MAKE UP LOSS (mm)	ML	137.31									

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TECHNICAL INFORMATION

CASING

SIZE:	193.68 mm
NOMINAL WEIGHT:	50.15 kg/m
WALL THICKNESS:	10.92 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	193.68	INSIDE DIA.(mm) d	171.83	DRIFT DIA. (mm)	168.66	PLAIN END WT (kg/m)			49.17
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		35.1	45.2	45.2	48.6	50.2	54.3	57.5	61.0
	INTERNAL YIELD PRESSURE (MPa)		37.4	54.4	54.4	61.2	64.6	74.8	85.1	102.1
	BODY YIELD STRENGTH (kN)		2378	3459	3459	3891	4107	4756	5404	6485
	ULTIMATE STRENGTH (kN)		4107	4323	4107	4323	4540	5404	5837	6918
	YIELD TORQUE (Nm)		118800	172800	172800	194400	205200	237600	270000	324000

RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
M A K E U P	REGULAR	MINIMUM (Nm)	12410	14170	14170	15050	15050	16410	17220	19520
		OPTIMUM (Nm)	13760	15660	15660	16680	16680	18170	19120	21560
		MAXIMUM (Nm)	15120	17150	17150	18300	18300	19930	21020	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	12410	14170	14170	15050	15050	16410	17220	19520
		OPTIMUM (Nm)	13760	15660	15660	16680	16680	18170	19120	21560
		MAXIMUM (Nm)	15120	17150	17150	18300	18300	19930	21020	23590

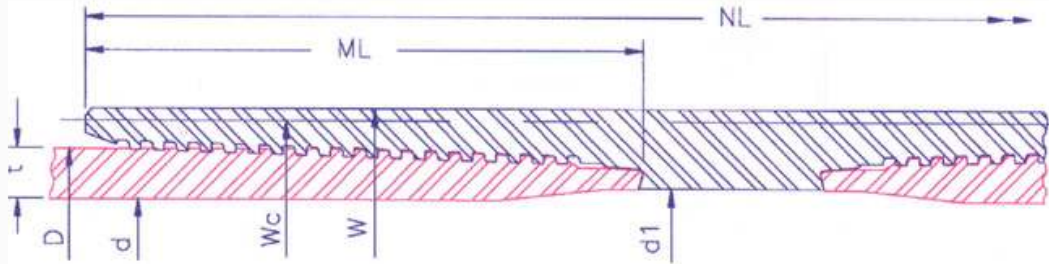
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		35.1	45.2	45.2	48.6	50.2	54.3	57.5	61.0	
	INTERNAL YIELD PRESSURE (MPa)		37.4	54.4	54.4	61.2	64.6	74.8	85.1	102.1	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		2194	3191	3191	3590	3790	4388	4986	5983	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		958	1393	1393	1567	1654	1915	2176	2611	
	PARTING LOAD (kN)										
	REGULAR COUPLING O.D.		3339	3789	3649	3913	4115	4861	5326	6336	
	SPECIAL CLEARANCE COUPLING O.D.		3171	3338	3171	3338	3505	4172	4506	5341	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m ³)		
	REGULAR COUPLING		W	216.61	176.25	28.83		133		0.05960	
	SPECIAL CLEARANCE COUPLING		Wc	206.81	176.25	20.59		81		0.05855	
	LENGTH OF COUPLING (mm)		NL	322.45							
MAKE UP LOSS (mm)		ML	137.31								

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TECHNICAL INFORMATION

CASING

SIZE:	193.68 mm
NOMINAL WEIGHT:	53.28 kg/m
WALL THICKNESS:	11.81 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	193.68	INSIDE DIA.(mm) d	170.05	DRIFT DIA. (mm)			166.88	PLAIN END WT (kg/m)		52.92
	GRADE			K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)			40.3	53.0	53.0	57.5	59.6	65.3	70.3	76.8
	INTERNAL YIELD PRESSURE (MPa)			40.5	58.9	58.9	66.2	69.9	80.9	92.0	110.4
	BODY YIELD STRENGTH (kN)			2559	3722	3722	4187	4420	5118	5816	6979
	ULTIMATE STRENGTH (kN)			4420	4653	4420	4653	4885	5816	6281	7444
	YIELD TORQUE (Nm)			126680	184270	184270	207300	218820	253370	287920	345500

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	12880	14710	14710	15860	15860	16880	18090	19520
		OPTIMUM (Nm)	14240	16200	16200	17630	17630	18640	19590	21560
		MAXIMUM (Nm)	15590	17690	17690	19390	19390	20410	21490	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	12880	14710	14710	15860	15860	16880	18090	19520
		OPTIMUM (Nm)	14240	16200	16200	17630	17630	18640	19590	21560
MAXIMUM (Nm)		15590	17690	17690	19390	19390	20410	21490	23590	

C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		40.3	53.0	53.0	57.5	59.6	65.3	70.3	76.8
	INTERNAL YIELD PRESSURE (MPa)		40.5	58.9	58.9	66.2	69.9	80.9	92.0	110.4
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		2194	3191	3191	3590	3790	4388	4986	5983
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		958	1393	1393	1567	1654	1915	2176	2611
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		3594	4078	3927	4211	4428	5231	5732	6818
	SPECIAL CLEARANCE COUPLING O.D.		3171	3338	3171	3338	3505	4172	4506	5341
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	216.61	176.25	28.83		124		0.06390
	SPECIAL CLEARANCE COUPLING		Wc	206.81	176.25	20.59		76		0.06285
LENGTH OF COUPLING (mm)		NL	322.45							
MAKE UP LOSS (mm)		ML	137.31							

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TECHNICAL INFORMATION

CASING

SIZE:	193.68 mm
NOMINAL WEIGHT:	58.04 kg/m
WALL THICKNESS:	12.70 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	193.68	INSIDE DIA.(mm) d	168.28	DRIFT DIA. (mm)	165.10	PLAIN END WT (kg/m)			56.62	
	GRADE	K55			N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)	45.5			60.8	60.8	66.3	68.9	76.4	83.1	92.7
	INTERNAL YIELD PRESSURE (MPa)	43.5			63.3	63.3	71.2	75.2	87.0	98.9	118.7
	BODY YIELD STRENGTH (kN)	2738			3983	3983	4481	4729	5476	6223	7468
	ULTIMATE STRENGTH (kN)	4729			4978	4729	4978	5227	6223	6721	7965
	YIELD TORQUE (Nm)	134330			195380	195380	219810	232020	268650	305290	366340

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	13350	15050	15050	16410	16410	17220	18570	19520
		OPTIMUM (Nm)	14710	16680	16680	18170	18170	19120	20610	21560
		MAXIMUM (Nm)	16070	18300	18300	19930	19930	21020	22640	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	13350	15050	15050	16410	16410	17220	18570	19520
		OPTIMUM (Nm)	14710	16680	16680	18170	18170	19120	20610	21560
MAXIMUM (Nm)		16070	18300	18300	19930	19930	21020	22640	23590	

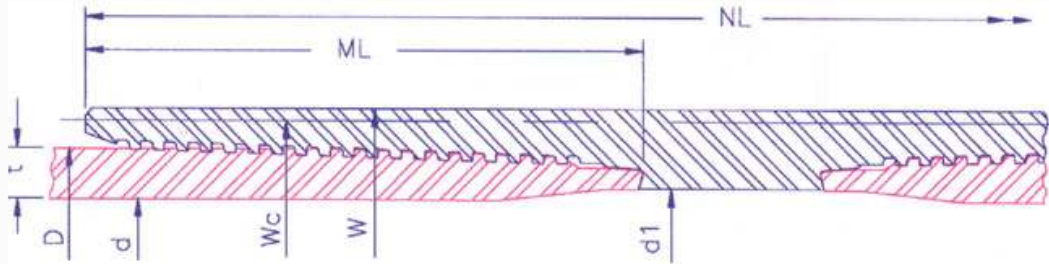
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)	45.5			60.8	60.8	66.3	68.9	76.4	83.1	92.7
	INTERNAL YIELD PRESSURE (MPa)	43.5			63.3	63.3	71.2	75.2	87.0	98.9	118.7
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)	2194			3191	3191	3590	3790	4388	4986	5983
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)	958			1393	1393	1567	1654	1915	2176	2611
	PARTING LOAD (kN)										
	REGULAR COUPLING O.D.	3845			4363	4202	4506	4738	5597	6133	7295
	SPECIAL CLEARANCE COUPLING O.D.	3171			3338	3171	3338	3505	4172	4506	5341
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)			JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m ³)	
	REGULAR COUPLING	W	216.61	176.25	28.83			116		0.06815	
	SPECIAL CLEARANCE COUPLING	Wc	206.81	176.25	20.59			71		0.06710	
LENGTH OF COUPLING (mm)	NL	322.45									
MAKE UP LOSS (mm)	ML	137.31									

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TECHNICAL INFORMATION

CASING

SIZE:	193.68 mm
NOMINAL WEIGHT:	63.69 kg/m
WALL THICKNESS:	14.27 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	193.68	INSIDE DIA.(mm) d	165.13	DRIFT DIA. (mm)			161.95	PLAIN END WT (kg/m)		63.08
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)		51.8	74.6	74.6	82.0	85.6	96.0	105.8	120.7	
	INTERNAL YIELD PRESSURE (MPa)		48.9	71.1	71.1	80.0	84.5	97.8	111.2	133.4	
	BODY YIELD STRENGTH (kN)		3051	4438	4438	4992	5270	6102	6934	8321	
	ULTIMATE STRENGTH (kN)		5270	5547	5270	5547	5824	6934	7489	8875	
	YIELD TORQUE (Nm)		147280	214230	214230	241010	254390	294560	334730	401680	

RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
M A K E U P	REGULAR	MINIMUM (Nm)	14710	16410	16410	17220	17220	18570	19520	19520
		OPTIMUM (Nm)	16200	18170	18170	19120	19120	20610	21560	21560
		MAXIMUM (Nm)	17690	19930	19930	21020	21020	22640	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	14710	16410	16410	17220	17220	18570	19520	19520
		OPTIMUM (Nm)	16200	18170	18170	19120	19120	20610	21560	21560
		MAXIMUM (Nm)	17690	19930	19930	21020	21020	22640	23590	23590

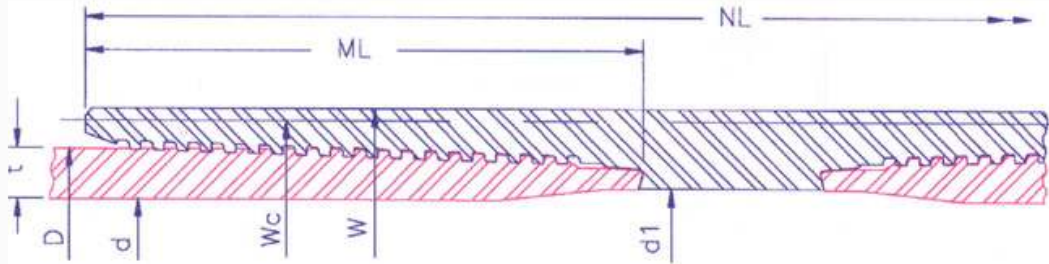
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		51.8	74.6	74.6	82.0	85.6	96.0	105.8	120.7	
	INTERNAL YIELD PRESSURE (MPa)		48.9	71.1	71.1	80.0	84.5	97.8	111.2	133.4	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		2194	3191	3191	3590	3790	4388	4986	5983	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		958	1393	1393	1567	1654	1915	2176	2611	
	PARTING LOAD (kN)										
	REGULAR COUPLING O.D.		4284	4862	4682	5021	5280	6236	6834	8129	
	SPECIAL CLEARANCE COUPLING O.D.		3171	3338	3171	3338	3505	4172	4506	5341	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m ³)		
	REGULAR COUPLING		W	216.61	176.25	28.83		104		0.07555	
	SPECIAL CLEARANCE COUPLING		Wc	206.81	176.25	20.59		63		0.07450	
LENGTH OF COUPLING (mm)		NL	322.45								
MAKE UP LOSS (mm)		ML	137.31								

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TECHNICAL INFORMATION

CASING

SIZE:	193.68 mm
NOMINAL WEIGHT:	67.41 kg/m
WALL THICKNESS:	15.11 mm
THREADS PER INCH:	5



PIPE BODY	OUTSIDE DIA.(mm)D	193.68	INSIDE DIA.(mm) d	163.45	DRIFT DIA. (mm)			PLAIN END WT (kg/m)		
					160.27					66.48
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		54.6	79.4	79.4	89.3	94.2	106.5	117.9	135.7
	INTERNAL YIELD PRESSURE (MPa)		51.8	75.3	75.3	84.7	89.4	103.6	117.7	141.2
	BODY YIELD STRENGTH (kN)		3215	4676	4676	5261	5553	6430	7307	8768
	ULTIMATE STRENGTH (kN)		5553	5845	5553	5845	6138	7307	7891	9353
YIELD TORQUE (Nm)		153880	223830	223830	251810	265790	307760	349730	419680	

MAKEUP	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	15050	16880	16880	17690	17690	18570	19520	19520
		OPTIMUM (Nm)	16680	18640	18640	19590	19590	20610	21560	21560
		MAXIMUM (Nm)	18300	20410	20410	21490	21490	22640	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	15050	16880	16880	17690	17690	18570	19520	19520
		OPTIMUM (Nm)	16680	18640	18640	19590	19590	20610	21560	21560
MAXIMUM (Nm)		18300	20410	20410	21490	21490	22640	23590	23590	

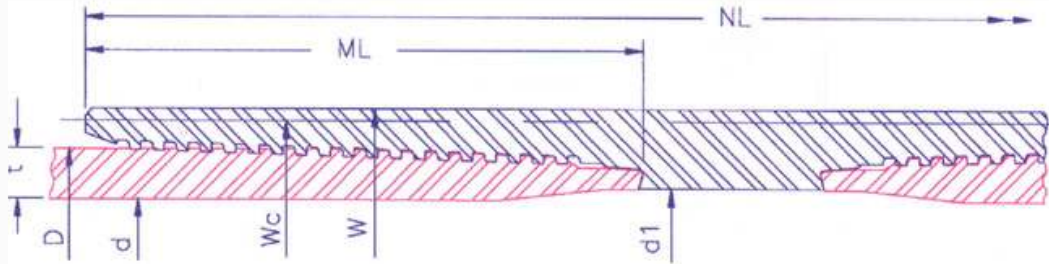
CONNECTION	COLLAPSE RESISTANCE (MPa)		54.6	79.4	79.4	89.3	94.2	106.5	117.9	135.7
	INTERNAL YIELD PRESSURE (MPa)		51.8	75.3	75.3	84.7	89.4	103.6	117.7	141.2
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		2194	3191	3191	3590	3790	4388	4986	5983
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		958	1393	1393	1567	1654	1915	2176	2611
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		4515	5123	4934	5291	5564	6571	7201	8566
	SPECIAL CLEARANCE COUPLING O.D.		3171	3338	3171	3338	3505	4172	4506	5341
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	216.61	176.25	28.83		99		0.07942
	SPECIAL CLEARANCE COUPLING		Wc	206.81	176.25	20.59		60		0.07837
LENGTH OF COUPLING (mm)		NL	322.45							
MAKE UP LOSS (mm)		ML	137.31							

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TECHNICAL INFORMATION

CASING

SIZE:	193.68 mm
NOMINAL WEIGHT:	70.09 kg/m
WALL THICKNESS:	15.88 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	193.68	INSIDE DIA.(mm) d	161.93	DRIFT DIA. (mm)			PLAIN END WT (kg/m)		69.53
	GRADE	K55		N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)	57.1		83.0	83.0	93.4	98.6	114.1	128.9	149.2
	INTERNAL YIELD PRESSURE (MPa)	54.4		79.1	79.1	89.0	94.0	108.8	123.6	148.4
	BODY YIELD STRENGTH (kN)	3363		4891	4891	5502	5808	6725	7642	9171
	ULTIMATE STRENGTH (kN)	5808		6114	5808	6114	6420	7642	8254	9782
	YIELD TORQUE (Nm)	159710		232300	232300	261340	275860	319410	362970	435570

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	15520	17220	17220	18570	18570	19520	19520	19520
		OPTIMUM (Nm)	17150	19120	19120	20610	20610	21560	21560	21560
		MAXIMUM (Nm)	18780	21020	21020	18360	18360	23590	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	15520	17220	17220	18570	18570	19520	19520	19520
		OPTIMUM (Nm)	17150	19120	19120	20610	20610	21560	21560	21560
MAXIMUM (Nm)		18780	21020	21020	18360	18360	23590	23590	23590	

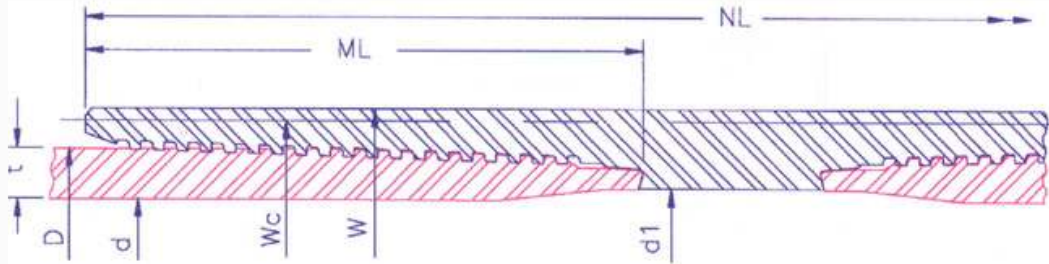
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		57.1	83.0	83.0	93.4	98.6	114.1	128.9	149.2
	INTERNAL YIELD PRESSURE (MPa)		54.4	79.1	79.1	89.0	94.0	108.8	123.6	148.4
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		2194	3191	3191	3590	3790	4388	4986	5983
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		958	1393	1393	1567	1654	1915	2176	2611
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		4722	5358	5161	5474	5747	6842	7389	8758
	SPECIAL CLEARANCE COUPLING O.D.		3171	3338	3171	3338	3505	4172	4506	5341
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m ³)	
	REGULAR COUPLING		W	216.61	176.25	28.83		94		0.08290
	SPECIAL CLEARANCE COUPLING		Wc	206.81	176.25	20.59		58		0.08185
LENGTH OF COUPLING (mm)		NL	322.45							
MAKE UP LOSS (mm)		ML	137.31							

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TECHNICAL INFORMATION

CASING

SIZE:	219.08 mm
NOMINAL WEIGHT:	41.67 kg/m
WALL THICKNESS:	7.72 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	219.08	INSIDE DIA.(mm) d	203.63	DRIFT DIA. (mm)			PLAIN END WT (kg/m)		40.21
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		12.9	14.9	14.9	15.2	15.2	15.2	15.2	15.2
	INTERNAL YIELD PRESSURE (MPa)		23.4	34.0	34.0	38.3	40.4	46.8	53.2	63.8
	BODY YIELD STRENGTH (kN)		1944	2828	2828	3181	3358	3888	4419	5302
	ULTIMATE STRENGTH (kN)		3358	3535	3358	3535	3712	4419	4772	5656
	YIELD TORQUE (Nm)		114590	166680	166680	187520	197940	229190	260440	312530

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	9270	10620	10620	11470	11470	12410	13350	14710
		OPTIMUM (Nm)	10290	11800	11800	12740	12740	13760	14710	16200
		MAXIMUM (Nm)	11310	12980	12980	14020	14020	15120	16070	17690
	SPECIAL CLEARANCE	MINIMUM (Nm)	9270	10620	10620	11470	11470	12410	13350	14710
		OPTIMUM (Nm)	10290	11800	11800	12740	12740	13760	14710	16200
MAXIMUM (Nm)		11310	12980	12980	14020	14020	15120	16070	17690	

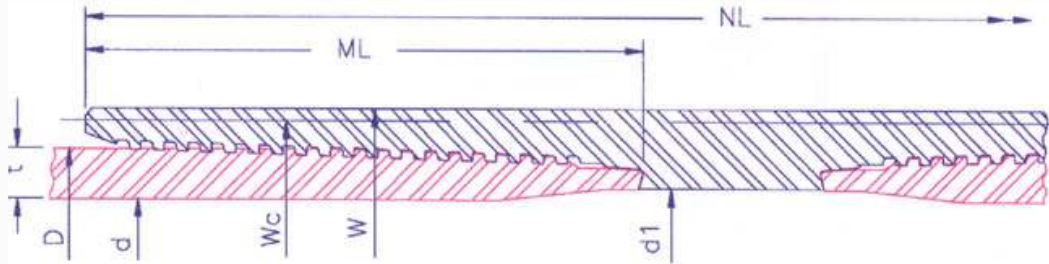
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		12.9	14.9	14.9	15.2	15.2	15.2	15.2	15.2
	INTERNAL YIELD PRESSURE (MPa)		23.4	34.0	34.0	38.3	40.4	46.8	53.2	63.8
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		2905	4225	4225	4754	5018	5810	6602	7923
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		1071	1557	1557	1752	1849	2141	2433	2920
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		2667	3060	2953	3175	3340	3940	4327	5149
	SPECIAL CLEARANCE COUPLING O.D.		2667	3060	2953	3175	3340	3940	4327	5149
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	245.11	204.14	27.65		207		0.04999
	SPECIAL CLEARANCE COUPLING		Wc	232.21	204.14	15.15		112		0.04840
LENGTH OF COUPLING (mm)		NL	329.46							
MAKE UP LOSS (mm)		ML	140.84							

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TECHNICAL INFORMATION

CASING

SIZE:	219.08 mm
NOMINAL WEIGHT:	47.62 kg/m
WALL THICKNESS:	8.94 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	219.08	INSIDE DIA.(mm) d	201.19	DRIFT DIA. (mm)			198.02	PLAIN END WT (kg/m)		46.28
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)		17.5	21.0	21.0	22.1	22.6	23.6	23.9	23.9	
	INTERNAL YIELD PRESSURE (MPa)		27.1	39.4	39.4	44.3	46.8	54.2	61.6	73.9	
	BODY YIELD STRENGTH (kN)		2238	3256	3256	3663	3866	4476	5087	6104	
	ULTIMATE STRENGTH (kN)		3866	4070	3866	4070	4273	5087	5494	6511	
	YIELD TORQUE (Nm)		130470	189770	189770	213490	225350	260930	296520	355820	

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	10130	11470	11470	12410	12410	13350	14170	15860
		OPTIMUM (Nm)	11250	12740	12740	13760	13760	14710	15660	17630
		MAXIMUM (Nm)	12380	14020	14020	15120	15120	16070	17150	19390
	SPECIAL CLEARANCE	MINIMUM (Nm)	10130	11470	11470	12410	12410	13350	14170	15860
		OPTIMUM (Nm)	11250	12740	12740	13760	13760	14710	15660	17630
MAXIMUM (Nm)		12380	14020	14020	15120	15120	16070	17150	19390	

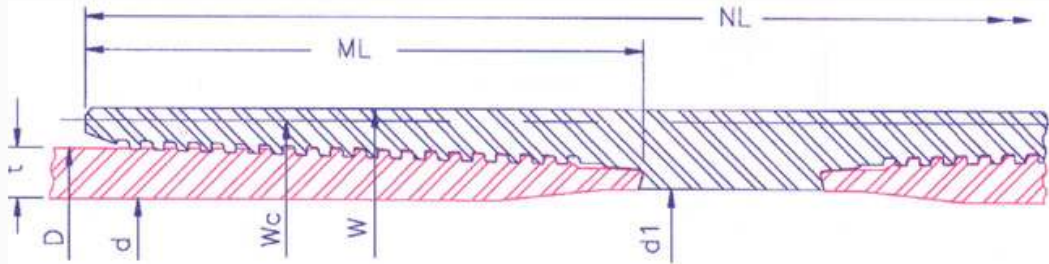
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		17.5	21.0	21.0	22.1	22.6	23.6	23.9	23.9
	INTERNAL YIELD PRESSURE (MPa)		27.1	39.4	39.4	44.3	46.8	54.2	61.6	73.9
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		2905	4225	4225	4754	5018	5810	6602	7923
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		1071	1557	1557	1752	1849	2141	2433	2920
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		3070	3523	3400	3655	3845	4536	4981	5928
	SPECIAL CLEARANCE COUPLING O.D.		3070	3523	3400	3655	3845	4536	4981	5928
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	245.11	204.14	27.65		180		0.05701
	SPECIAL CLEARANCE COUPLING		Wc	232.21	204.14	15.15		98		0.05541
LENGTH OF COUPLING (mm)		NL	329.46							
MAKE UP LOSS (mm)		ML	140.84							

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TECHNICAL INFORMATION

CASING

SIZE:	219.08 mm
NOMINAL WEIGHT:	53.57 kg/m
WALL THICKNESS:	10.16 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	219.08	INSIDE DIA.(mm) d	198.76	DRIFT DIA. (mm)			195.58	PLAIN END WT (kg/m)		52.29
	GRADE	K55		N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)	23.8		28.3	28.3	29.3	30.0	32.3	34.0	35.4	
	INTERNAL YIELD PRESSURE (MPa)	30.8		44.8	44.8	50.4	53.2	61.6	69.9	83.9	
	BODY YIELD STRENGTH (kN)	2529		3678	3678	4138	4368	5057	5747	6896	
	ULTIMATE STRENGTH (kN)	4368		4598	4368	4598	4827	5747	6207	7356	
	YIELD TORQUE (Nm)	145770		212030	212030	238540	251790	291550	331300	397560	

RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
M A K E U P	REGULAR	MINIMUM (Nm)	12410	14170	14170	15050	15050	16410	17690	19520
		OPTIMUM (Nm)	13760	15660	15660	16680	16680	18170	19590	21560
		MAXIMUM (Nm)	15120	17150	17150	18300	18300	19930	21490	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	12410	14170	14170	15050	15050	16410	17690	19520
		OPTIMUM (Nm)	13760	15660	15660	16680	16680	18170	19590	21560
		MAXIMUM (Nm)	15120	17150	17150	18300	18300	19930	21490	23590

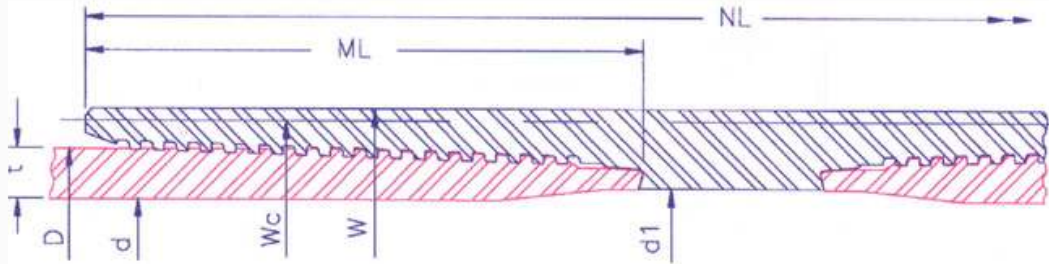
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		23.8	28.3	28.3	29.3	30.0	32.3	34.0	35.4	
	INTERNAL YIELD PRESSURE (MPa)		30.8	44.8	44.8	50.4	53.2	61.6	69.9	83.9	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		2905	4225	4225	4754	5018	5810	6602	7923	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		1071	1557	1557	1752	1849	2141	2433	2920	
	PARTING LOAD (kN)										
	REGULAR COUPLING O.D.		3468	3980	3841	4130	4344	5125	5627	6697	
	SPECIAL CLEARANCE COUPLING O.D.		3468	3776	3587	3776	3965	4720	5098	6042	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)		
	REGULAR COUPLING		W	245.11	202.74	27.83		159		0.06397	
	SPECIAL CLEARANCE COUPLING		Wc	232.21	202.74	15.33		87		0.06238	
	LENGTH OF COUPLING (mm)		NL	329.46							
MAKE UP LOSS (mm)		ML	140.84								

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TECHNICAL INFORMATION

CASING

SIZE:	219.08 mm
NOMINAL WEIGHT:	59.53 kg/m
WALL THICKNESS:	11.43 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	219.08	INSIDE DIA.(mm) d	196.22	DRIFT DIA. (mm)			193.04	PLAIN END WT (kg/m)		58.47
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)		30.3	38.1	38.1	40.5	41.5	44.1	45.7	48.4	
	INTERNAL YIELD PRESSURE (MPa)		34.6	50.4	50.4	56.7	59.8	69.2	78.7	94.4	
	BODY YIELD STRENGTH (kN)		2827	4113	4113	4627	4884	5655	6426	7711	
	ULTIMATE STRENGTH (kN)		4884	5141	4884	5141	5398	6426	6940	8225	
	YIELD TORQUE (Nm)		161130	234370	234370	263670	278310	322260	366200	439440	

RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
M A K E U P	REGULAR	MINIMUM (Nm)	13350	15050	15050	16410	16410	17220	18570	19520
		OPTIMUM (Nm)	14710	16680	16680	18170	18170	19120	20610	21560
		MAXIMUM (Nm)	16070	18300	18300	19930	19930	21020	22640	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	13350	15050	15050	16410	16410	17220	18570	19520
		OPTIMUM (Nm)	14710	16680	16680	18170	18170	19120	20610	21560
		MAXIMUM (Nm)	16070	18300	18300	19930	19930	21020	22640	23590

C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		30.3	38.1	38.1	40.5	41.5	44.1	45.7	48.4
	INTERNAL YIELD PRESSURE (MPa)		34.6	50.4	50.4	56.7	59.8	69.2	78.7	94.4
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		2905	4225	4225	4754	5018	5810	6602	7923
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		1071	1557	1557	1752	1849	2141	2433	2920
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		3878	4451	4295	4618	4857	5730	6292	7488
	SPECIAL CLEARANCE COUPLING O.D.		3587	3776	3587	3776	3965	4720	5098	6042
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	245.11	202.74	27.83		142		0.07108
	SPECIAL CLEARANCE COUPLING		Wc	232.21	202.74	15.33		77		0.06948
LENGTH OF COUPLING (mm)		NL	329.46							
MAKE UP LOSS (mm)		ML	140.84							

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TECHNICAL INFORMATION

CASING

SIZE:	219.08 mm
NOMINAL WEIGHT:	65.48 kg/m
WALL THICKNESS:	12.70 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	219.08	INSIDE DIA.(mm) d	193.68	DRIFT DIA. (mm)			PLAIN END WT (kg/m)		64.57
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		36.9	47.9	47.9	51.7	53.4	58.1	61.9	66.4
	INTERNAL YIELD PRESSURE (MPa)		38.5	56.0	56.0	63.0	66.4	76.9	87.4	104.9
	BODY YIELD STRENGTH (kN)		3122	4542	4542	5109	5393	6245	7096	8516
	ULTIMATE STRENGTH (kN)		5393	5677	5393	5677	5961	7096	7664	9083
	YIELD TORQUE (Nm)		175900	255850	255850	287840	303830	351800	399770	479730

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	14170	15860	15860	17220	17220	18570	19520	19520
		OPTIMUM (Nm)	15660	17630	17630	19120	19120	20610	21560	21560
		MAXIMUM (Nm)	17150	19390	19390	21020	21020	22640	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	14170	15860	15860	17220	17220	18570	19520	19520
		OPTIMUM (Nm)	15660	17630	17630	19120	19120	20610	21560	21560
MAXIMUM (Nm)		17150	19390	19390	21020	21020	22640	23590	23590	

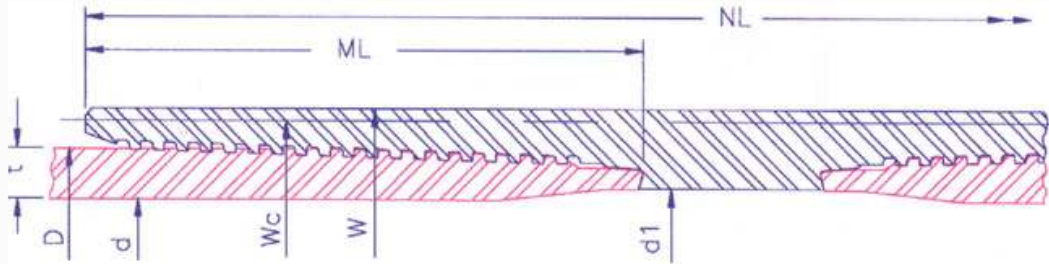
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		36.9	47.9	47.9	51.7	53.4	58.1	61.9	66.4	
	INTERNAL YIELD PRESSURE (MPa)		38.5	56.0	56.0	63.0	66.4	76.9	87.4	104.9	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		2905	4225	4225	4754	5018	5810	6602	7923	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		1071	1557	1557	1752	1849	2141	2433	2920	
			PARTING LOAD (kN)								
	REGULAR COUPLING O.D.		4283	4915	4743	5099	5363	6328	6949	8269	
	SPECIAL CLEARANCE COUPLING O.D.		3587	3776	3587	3776	3965	4720	5098	6042	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)		
	REGULAR COUPLING	W	245.11	202.74	27.83		129		0.07807		
	SPECIAL CLEARANCE COUPLING	Wc	232.21	202.74	15.33		70		0.07647		
LENGTH OF COUPLING (mm)	NL	329.46									
MAKE UP LOSS (mm)	ML	140.84									

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TECHNICAL INFORMATION

CASING

SIZE:	219.08 mm
NOMINAL WEIGHT:	72.92 kg/m
WALL THICKNESS:	14.15 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	219.08	INSIDE DIA.(mm) d	190.78	DRIFT DIA. (mm)	187.60	PLAIN END WT (kg/m)			71.42
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		44.4	59.1	59.1	64.4	66.9	74.0	80.4	89.2
	INTERNAL YIELD PRESSURE (MPa)		42.9	62.3	62.3	70.1	74.0	85.7	97.4	116.9
	BODY YIELD STRENGTH (kN)		3454	5024	5024	5652	5966	6908	7850	9420
	ULTIMATE STRENGTH (kN)		5966	6280	5966	6280	6594	7850	8478	10048
	YIELD TORQUE (Nm)		192040	279340	279340	314250	331710	384090	436460	523760

RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
M A K E U P	REGULAR	MINIMUM (Nm)	15050	16880	16880	18570	18570	19520	19520	19520
		OPTIMUM (Nm)	16680	18640	18640	20610	20610	21560	21560	21560
		MAXIMUM (Nm)	18300	20410	20410	22640	22640	23590	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	15050	16880	16880	18570	18570	19520	19520	19520
		OPTIMUM (Nm)	16680	18640	18640	20610	20610	21560	21560	21560
		MAXIMUM (Nm)	18300	20410	20410	22640	22640	23590	23590	23590

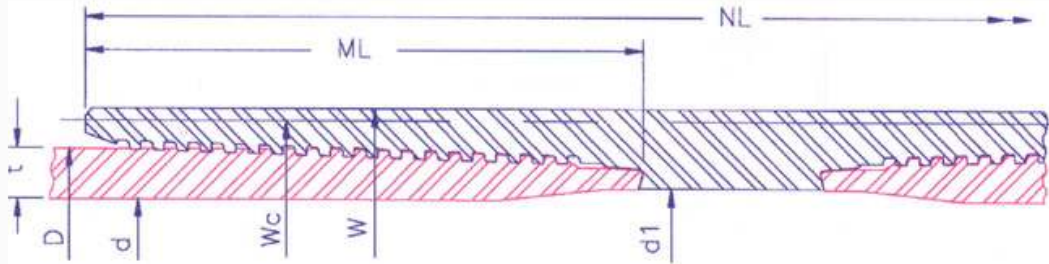
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		44.4	59.1	59.1	64.4	66.9	74.0	80.4	89.2
	INTERNAL YIELD PRESSURE (MPa)		42.9	62.3	62.3	70.1	74.0	85.7	97.4	116.9
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		2905	4225	4225	4754	5018	5810	6602	7923
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		1071	1557	1557	1752	1849	2141	2433	2920
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		4737	5437	5247	5641	5933	7000	7686	9148
	SPECIAL CLEARANCE COUPLING O.D.		3587	3776	3587	3776	3965	4720	5098	6042
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	245.11	202.74	27.83		116		0.08590
	SPECIAL CLEARANCE COUPLING		Wc	232.21	202.74	15.33		63		0.08431
LENGTH OF COUPLING (mm)		NL	329.46							
MAKE UP LOSS (mm)		ML	140.84							

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TECHNICAL INFORMATION

CASING

SIZE:	219.08 mm
NOMINAL WEIGHT:	77.38 kg/m
WALL THICKNESS:	15.11 mm
THREADS PER INCH:	5



PIPE BODY	OUTSIDE DIA.(mm)D	219.08	INSIDE DIA.(mm) d	188.85	DRIFT DIA. (mm)			PLAIN END WT (kg/m)		75.94	
	GRADE	K55			N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)	48.7			66.6	66.6	72.9	75.9	84.6	92.7	104.4
	INTERNAL YIELD PRESSURE (MPa)	45.8			66.6	66.6	74.9	79.1	91.6	104.0	124.9
	BODY YIELD STRENGTH (kN)	3672			5341	5341	6009	6343	7345	8346	10015
	ULTIMATE STRENGTH (kN)	6343			6677	6343	6677	7011	8346	9014	10683
	YIELD TORQUE (Nm)	202410			294410	294410	331210	349610	404810	460010	552020

MAKEUP	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	15860	17690	17690	18570	18570	19520	19520	19520
		OPTIMUM (Nm)	17630	19590	19590	20610	20610	21560	21560	21560
		MAXIMUM (Nm)	19390	21490	21490	22640	22640	23590	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	15860	17690	17690	18570	18570	19520	19520	19520
		OPTIMUM (Nm)	17630	19590	19590	20610	20610	21560	21560	21560
MAXIMUM (Nm)		19390	21490	21490	22640	22640	23590	23590	23590	

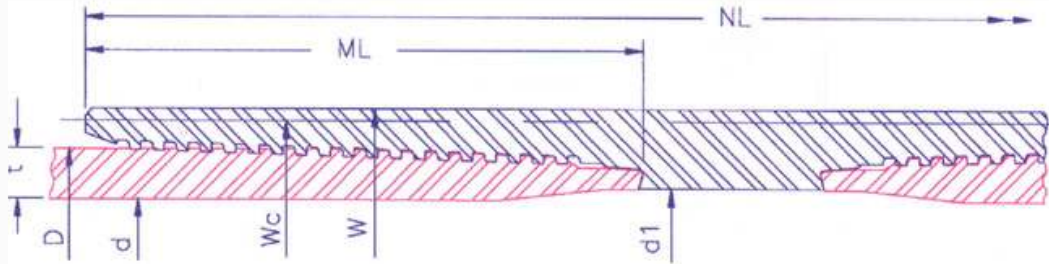
CONNECTION	COLLAPSE RESISTANCE (MPa)		48.7	66.6	66.6	72.9	75.9	84.6	92.7	104.4
	INTERNAL YIELD PRESSURE (MPa)		45.8	66.6	66.6	74.9	79.1	91.6	104.0	124.9
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		2905	4225	4225	4754	5018	5810	6602	7923
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		1071	1557	1557	1752	1849	2141	2433	2920
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		5037	5781	5578	5997	6308	7442	8172	9726
	SPECIAL CLEARANCE COUPLING O.D.		3587	3776	3587	3776	3965	4720	5098	6042
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	245.11	202.74	27.83		110		0.09105
	SPECIAL CLEARANCE COUPLING		Wc	232.21	202.74	15.33		60		0.08945
LENGTH OF COUPLING (mm)		NL	329.46							
MAKE UP LOSS (mm)		ML	140.84							

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TECHNICAL INFORMATION

CASING

SIZE:	244.48 mm
NOMINAL WEIGHT:	53.57 kg/m
WALL THICKNESS:	8.94 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	244.48	INSIDE DIA.(mm) d	226.59	DRIFT DIA. (mm)			222.63	PLAIN END WT (kg/m)		51.88
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)		13.9	16.3	16.3	16.8	17.0	17.1	17.1	17.1	
	INTERNAL YIELD PRESSURE (MPa)		24.3	35.3	35.3	39.7	41.9	48.5	55.2	66.2	
	BODY YIELD STRENGTH (kN)		2509	3649	3649	4105	4333	5018	5702	6842	
	ULTIMATE STRENGTH (kN)		4333	4561	4333	4561	4790	5702	6158	7298	
	YIELD TORQUE (Nm)		164580	239390	239390	269310	284270	329150	374040	448850	

RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
M A K E U P	REGULAR	MINIMUM (Nm)	10620	12410	12410	13690	13690	14710	15860	17690
		OPTIMUM (Nm)	11800	13760	13760	15190	15190	16200	17630	19590
		MAXIMUM (Nm)	12980	15120	15120	16680	16680	17690	19390	21490
	SPECIAL CLEARANCE	MINIMUM (Nm)	10620	12410	12410	13690	13690	14710	15860	17690
		OPTIMUM (Nm)	11800	13760	13760	15190	15190	16200	17630	19590
		MAXIMUM (Nm)	12980	15120	15120	16680	16680	17690	19390	21490

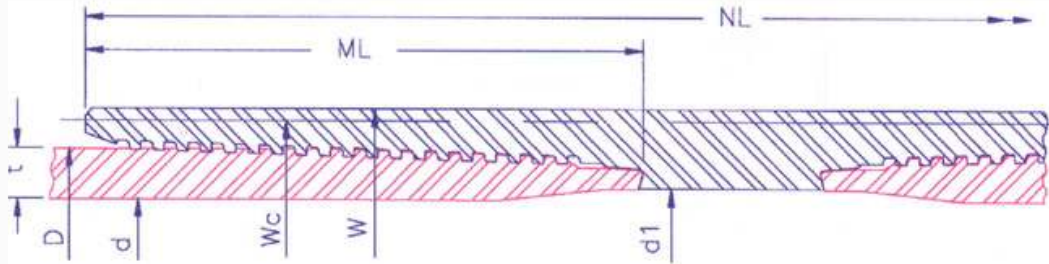
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		13.9	16.3	16.3	16.8	17.0	17.1	17.1	17.1	
	INTERNAL YIELD PRESSURE (MPa)		24.3	35.3	35.3	39.7	41.9	48.5	55.2	66.2	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		3216	4677	4677	5262	5554	6431	7308	8770	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		1186	1725	1725	1941	2049	2372	2695	3235	
	PARTING LOAD (kN)										
	REGULAR COUPLING O.D.		3359	3901	3772	4066	4277	5041	5547	6604	
	SPECIAL CLEARANCE COUPLING O.D.		3359	3901	3772	4066	4277	5041	5547	6604	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m ³)		
	REGULAR COUPLING		W	270.51	229.54	30.70		178		0.06386	
	SPECIAL CLEARANCE COUPLING		Wc	257.61	229.54	16.88		97		0.06210	
LENGTH OF COUPLING (mm)		NL	329.46								
MAKE UP LOSS (mm)		ML	140.84								

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TECHNICAL INFORMATION

CASING

SIZE:	244.48 mm
NOMINAL WEIGHT:	59.53 kg/m
WALL THICKNESS:	10.03 mm
THREADS PER INCH:	5



PIPE BODY	OUTSIDE DIA.(mm)D	244.48	INSIDE DIA.(mm) d	224.41	DRIFT DIA. (mm)			PLAIN END WT (kg/m)		57.95
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		17.7	21.3	21.3	22.4	22.9	23.9	24.3	24.3
	INTERNAL YIELD PRESSURE (MPa)		27.2	39.6	39.6	44.6	47.0	54.5	61.9	74.3
	BODY YIELD STRENGTH (kN)		2802	4076	4076	4585	4840	5604	6369	7642
	ULTIMATE STRENGTH (kN)		4840	5095	4840	5095	5350	6369	6878	8152
	YIELD TORQUE (Nm)		182200	265010	265010	298140	314700	364390	414080	496900

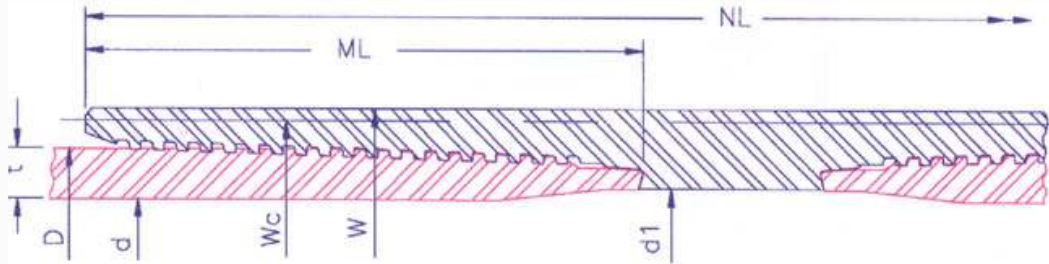
RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
MAKEUP	REGULAR	MINIMUM (Nm)	12880	15050	15050	16410	16410	17690	19520	19520
		OPTIMUM (Nm)	14240	16680	16680	18170	18170	19590	21560	21560
		MAXIMUM (Nm)	15590	18300	18300	19930	19930	21490	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	12880	15050	15050	16410	16410	17690	19520	19520
		OPTIMUM (Nm)	14240	16680	16680	18170	18170	19590	21560	21560
		MAXIMUM (Nm)	15590	18300	18300	19930	19930	21490	23590	23590

CONNECTION	COLLAPSE RESISTANCE (MPa)		17.7	21.3	21.3	22.4	22.9	23.9	24.3	24.3
	INTERNAL YIELD PRESSURE (MPa)		27.2	39.6	39.6	44.6	47.0	54.5	61.9	74.3
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		3216	4677	4677	5262	5554	6431	7308	8770
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		1186	1725	1725	1941	2049	2372	2695	3235
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		3752	4357	4213	4541	4778	5630	6195	7377
	SPECIAL CLEARANCE COUPLING O.D.		3752	4204	3994	4204	4414	5255	5676	6727
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m ³)	
	REGULAR COUPLING		W	270.51	228.35	30.87		159		0.07090
	SPECIAL CLEARANCE COUPLING		Wc	257.61	228.35	17.04		87		0.06913
	LENGTH OF COUPLING (mm)		NL	329.46		The above information is for reference only. The information is subject to change or modification without notice. Please contact HSC for the latest information				
MAKE UP LOSS (mm)		ML	140.84							

TECHNICAL INFORMATION

CASING

SIZE:	244.48 mm
NOMINAL WEIGHT:	64.74 kg/m
WALL THICKNESS:	11.05 mm
THREADS PER INCH:	5



PIPE BODY	OUTSIDE DIA.(mm)D	244.48	INSIDE DIA.(mm) d	222.38	DRIFT DIA. (mm)	218.41	PLAIN END WT (kg/m)			63.53
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		22.4	26.3	26.3	27.6	28.4	30.4	31.8	32.8
	INTERNAL YIELD PRESSURE (MPa)		30.0	43.6	43.6	49.1	51.8	60.0	68.2	81.8
	BODY YIELD STRENGTH (kN)		3073	4469	4469	5028	5307	6145	6983	8380
	ULTIMATE STRENGTH (kN)		5307	5587	5307	5587	5866	6983	7542	8938
	YIELD TORQUE (Nm)		198130	288190	288190	324210	342220	396260	450290	540350

MAKEUP	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	14710	17220	17220	18570	18570	19520	19520	19520
		OPTIMUM (Nm)	16200	19120	19120	20610	20610	21560	21560	21560
		MAXIMUM (Nm)	17690	21020	21020	22640	22640	23590	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	14710	17220	17220	18570	18570	19520	19520	19520
		OPTIMUM (Nm)	16200	19120	19120	20610	20610	21560	21560	21560
MAXIMUM (Nm)		17690	21020	21020	22640	22640	23590	23590	23590	

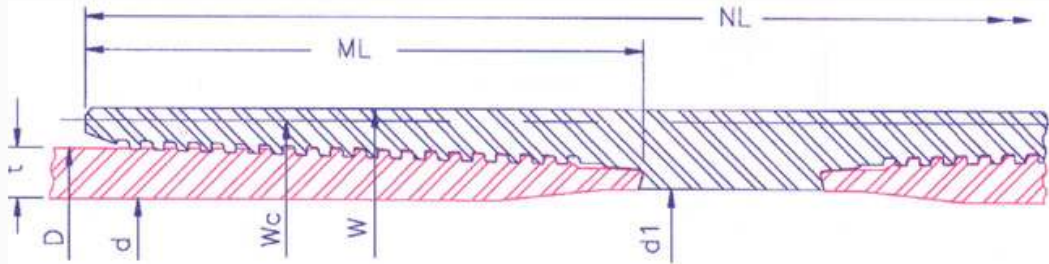
CONNECTION	COLLAPSE RESISTANCE (MPa)		22.4	26.3	26.3	27.6	28.4	30.4	31.8	32.8
	INTERNAL YIELD PRESSURE (MPa)		30.0	43.6	43.6	49.1	51.8	60.0	68.2	81.8
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		3216	4677	4677	5262	5554	6431	7308	8770
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		1186	1725	1725	1941	2049	2372	2695	3235
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		4114	4777	4619	4979	5239	6174	6793	8089
	SPECIAL CLEARANCE COUPLING O.D.		3994	4204	3994	4204	4414	5255	5676	6727
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	270.51	227.25	31.02		145		0.07738
	SPECIAL CLEARANCE COUPLING		Wc	257.61	227.25	17.20		79		0.07561
LENGTH OF COUPLING (mm)		NL	329.46							
MAKE UP LOSS (mm)		ML	140.84							

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TECHNICAL INFORMATION

CASING

SIZE:	244.48 mm
NOMINAL WEIGHT:	69.94 kg/m
WALL THICKNESS:	11.99 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	244.48	INSIDE DIA.(mm) d	220.50	DRIFT DIA. (mm)			216.54	PLAIN END WT (kg/m)		68.66
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)		26.8	32.8	32.8	34.4	35.1	36.5	38.8	41.4	
	INTERNAL YIELD PRESSURE (MPa)		32.5	47.3	47.3	53.3	56.2	65.1	74.0	88.8	
	BODY YIELD STRENGTH (kN)		3321	4830	4830	5434	5735	6641	7547	9056	
	ULTIMATE STRENGTH (kN)		5735	6037	5735	6037	6339	7547	8150	9660	
	YIELD TORQUE (Nm)		212480	309070	309070	347700	367020	424970	482920	579500	

RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
M A K E U P	REGULAR	MINIMUM (Nm)	15050	17690	17690	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	16680	19590	19590	21560	21560	21560	21560	21560
		MAXIMUM (Nm)	18300	21490	21490	23590	23590	23590	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	15050	17690	17690	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	16680	19590	19590	21560	21560	21560	21560	21560
		MAXIMUM (Nm)	18300	21490	21490	23590	23590	23590	23590	23590

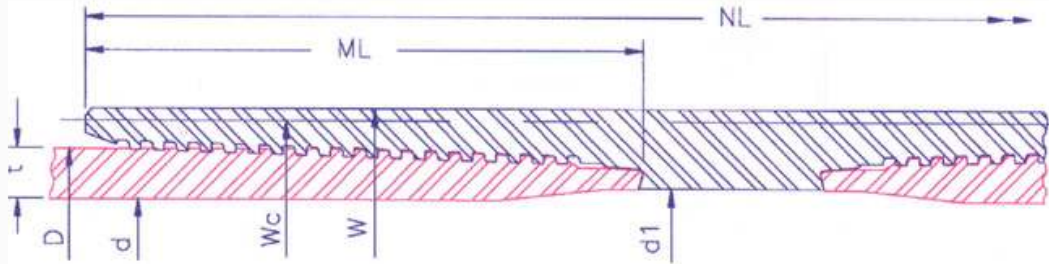
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		26.8	32.8	32.8	34.4	35.1	36.5	38.8	41.4
	INTERNAL YIELD PRESSURE (MPa)		32.5	47.3	47.3	53.3	56.2	65.1	74.0	88.8
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		3216	4677	4677	5262	5554	6431	7308	8770
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		1186	1725	1725	1941	2049	2372	2695	3235
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		4445	5163	4992	5381	5661	6672	7341	8741
	SPECIAL CLEARANCE COUPLING O.D.		3994	4204	3994	4204	4414	5255	5676	6727
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m ³)	
	REGULAR COUPLING		W	270.51	227.25	31.02		134		0.08327
	SPECIAL CLEARANCE COUPLING		Wc	257.61	227.25	17.20		73		0.08150
LENGTH OF COUPLING (mm)		NL	329.46							
MAKE UP LOSS (mm)		ML	140.84							

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TECHNICAL INFORMATION

CASING

SIZE:	244.48 mm
NOMINAL WEIGHT:	79.62 kg/m
WALL THICKNESS:	13.84 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	244.48	INSIDE DIA.(mm) d	216.79	DRIFT DIA. (mm)			212.83	PLAIN END WT (kg/m)		78.65
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)		35.4	45.6	45.6	49.1	50.6	54.8	58.2	61.8	
	INTERNAL YIELD PRESSURE (MPa)		37.6	54.7	54.7	61.5	64.9	75.2	85.4	102.5	
	BODY YIELD STRENGTH (kN)		3803	5532	5532	6224	6570	7607	8644	10373	
	ULTIMATE STRENGTH (kN)		6570	6915	6570	6915	7261	8644	9336	11065	
	YIELD TORQUE (Nm)		239750	348730	348730	392320	414110	479500	544880	653860	

RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
M A K E U P	REGULAR	MINIMUM (Nm)	16410	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	18170	21560	21560	21560	21560	21560	21560	21560
		MAXIMUM (Nm)	19930	23590	23590	23590	23590	23590	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	16410	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	18170	21560	21560	21560	21560	21560	21560	21560
		MAXIMUM (Nm)	19930	23590	23590	23590	23590	23590	23590	23590

C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		35.4	45.6	45.6	49.1	50.6	54.8	58.2	61.8	
	INTERNAL YIELD PRESSURE (MPa)		37.6	54.7	54.7	61.5	64.9	75.2	85.4	102.5	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		3216	4677	4677	5262	5554	6431	7308	8770	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		1186	1725	1725	1941	2049	2372	2695	3235	
	PARTING LOAD (kN)										
	REGULAR COUPLING O.D.		5092	5914	5718	6164	6485	7642	8409	10013	
	SPECIAL CLEARANCE COUPLING O.D.		3994	4204	3994	4204	4414	5255	5676	6727	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m ³)		
	REGULAR COUPLING		W	270.51	227.25	31.02		117		0.09470	
	SPECIAL CLEARANCE COUPLING		Wc	257.61	227.25	17.20		64		0.09294	
LENGTH OF COUPLING (mm)		NL	329.46								
MAKE UP LOSS (mm)		ML	140.84								

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TECHNICAL INFORMATION

CASING

SIZE:	244.48 mm
NOMINAL WEIGHT:	86.91 kg/m
WALL THICKNESS:	15.11 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	244.48	INSIDE DIA.(mm) d	214.25	DRIFT DIA. (mm)			PLAIN END WT (kg/m)		85.39
	GRADE	K55	N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)	41.3	54.4	54.4	59.1	61.3	67.3	72.7	79.7	
	INTERNAL YIELD PRESSURE (MPa)	41.0	59.7	59.7	67.1	70.9	82.0	93.2	111.9	
	BODY YIELD STRENGTH (kN)	4130	6007	6007	6757	7133	8259	9385	11262	
	ULTIMATE STRENGTH (kN)	7133	7508	7133	7508	7884	9385	10136	12013	
	YIELD TORQUE (Nm)	257630	374740	374740	421580	445000	515270	585530	702640	

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
	REGULAR	MINIMUM (Nm)	17220	19520	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	19120	21560	21560	21560	21560	21560	21560	21560	21560
		MAXIMUM (Nm)	21020	23590	23590	23590	23590	23590	23590	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	17220	19520	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	19120	21560	21560	21560	21560	21560	21560	21560	21560
MAXIMUM (Nm)		21020	23590	23590	23590	23590	23590	23590	23590	23590	

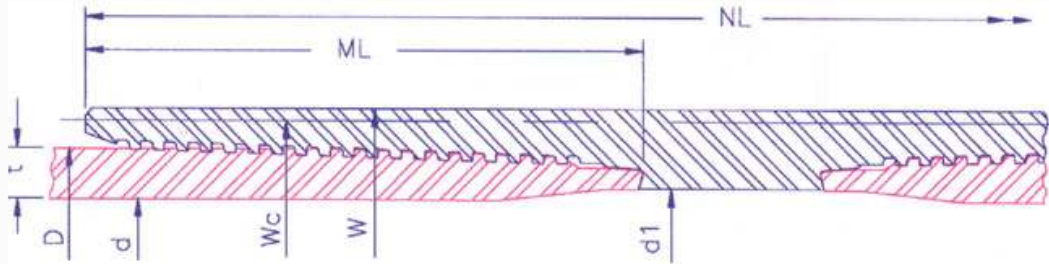
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		41.3	54.4	54.4	59.1	61.3	67.3	72.7	79.7
	INTERNAL YIELD PRESSURE (MPa)		41.0	59.7	59.7	67.1	70.9	82.0	93.2	111.9
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		3216	4677	4677	5262	5554	6431	7308	8770
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		1186	1725	1725	1941	2049	2372	2695	3235
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		5529	6421	6208	6692	7041	8298	9130	10871
	SPECIAL CLEARANCE COUPLING O.D.		3994	4204	3994	4204	4414	5255	5676	6727
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	270.51	227.25	31.02		108		0.10240
	SPECIAL CLEARANCE COUPLING		Wc	257.61	227.25	17.20		59		0.10064
LENGTH OF COUPLING (mm)		NL	329.46							
MAKE UP LOSS (mm)		ML	140.84							

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TECHNICAL INFORMATION

CASING

SIZE:	244.48 mm
NOMINAL WEIGHT:	88.40 kg/m
WALL THICKNESS:	15.47 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	244.48	INSIDE DIA.(mm) d	213.54	DRIFT DIA. (mm)			209.58	PLAIN END WT (kg/m)		87.27
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)		42.9	56.9	56.9	61.9	64.2	70.9	76.7	84.7	
	INTERNAL YIELD PRESSURE (MPa)		42.0	61.1	61.1	68.7	72.5	84.0	95.4	114.5	
	BODY YIELD STRENGTH (kN)		4220	6138	6138	6906	7289	8440	9591	11510	
	ULTIMATE STRENGTH (kN)		7289	7673	7289	7673	8057	9591	10359	12277	
	YIELD TORQUE (Nm)		262530	381860	381860	429590	453460	525060	596660	715990	

RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
M A K E U P	REGULAR	MINIMUM (Nm)	17690	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	19590	21560	21560	21560	21560	21560	21560	21560
		MAXIMUM (Nm)	21490	23590	23590	23590	23590	23590	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	17690	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	19590	21560	21560	21560	21560	21560	21560	21560
		MAXIMUM (Nm)	21490	23590	23590	23590	23590	23590	23590	23590

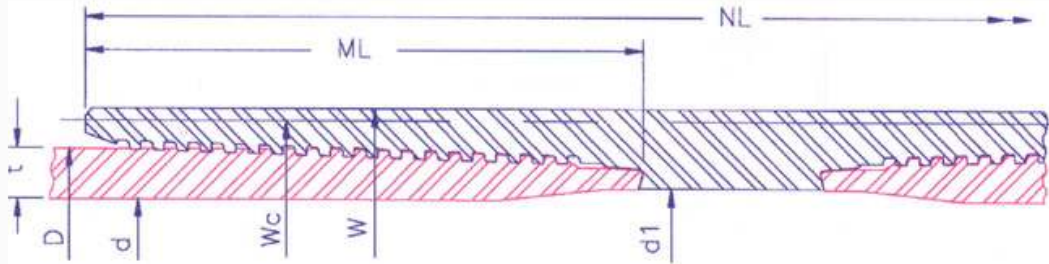
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		42.9	56.9	56.9	61.9	64.2	70.9	76.7	84.7	
	INTERNAL YIELD PRESSURE (MPa)		42.0	61.1	61.1	68.7	72.5	84.0	95.4	114.5	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		3216	4677	4677	5262	5554	6431	7308	8770	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		1186	1725	1725	1941	2049	2372	2695	3235	
	PARTING LOAD (kN)										
	REGULAR COUPLING O.D.		5650	6561	6344	6839	7195	8480	9330	11110	
	SPECIAL CLEARANCE COUPLING O.D.		3994	4204	3994	4204	4414	5255	5676	6727	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m ³)		
	REGULAR COUPLING		W	270.51	227.25	31.02		106		0.10454	
	SPECIAL CLEARANCE COUPLING		Wc	257.61	227.25	17.20		58		0.10277	
LENGTH OF COUPLING (mm)		NL	329.46								
MAKE UP LOSS (mm)		ML	140.84								

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TECHNICAL INFORMATION

CASING

SIZE:	273.05 mm
NOMINAL WEIGHT:	60.27 kg/m
WALL THICKNESS:	8.89 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	273.05	INSIDE DIA.(mm) d	255.27	DRIFT DIA. (mm)			PLAIN END WT (kg/m)		57.86
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		10.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
	INTERNAL YIELD PRESSURE (MPa)		21.6	31.4	31.4	35.4	37.3	43.2	49.1	58.9
	BODY YIELD STRENGTH (kN)		2798	4069	4069	4578	4832	5595	6358	7630
	ULTIMATE STRENGTH (kN)		4832	5087	4832	5087	5341	6358	6867	8139
	YIELD TORQUE (Nm)		206630	300550	300550	338120	356910	413260	469610	563540

RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
M A K E U P	REGULAR	MINIMUM (Nm)	11470	13690	13690	15050	15050	16410	17690	19520
		OPTIMUM (Nm)	12740	15190	15190	16680	16680	18170	19590	21560
		MAXIMUM (Nm)	14020	16680	16680	18300	18300	19930	21490	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	11470	13690	13690	15050	15050	16410	17690	19520
		OPTIMUM (Nm)	12740	15190	15190	16680	16680	18170	19590	21560
		MAXIMUM (Nm)	14020	16680	16680	18300	18300	19930	21490	23590

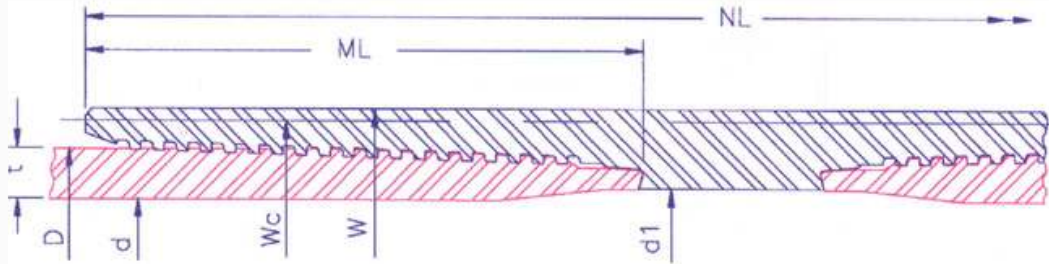
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		10.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
	INTERNAL YIELD PRESSURE (MPa)		21.6	31.4	31.4	35.4	37.3	43.2	49.1	58.9
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		3559	5177	5177	5824	6148	7119	8090	9707
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		1328	1932	1932	2173	2294	2656	3018	3622
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		3642	4289	4157	4495	4730	5567	6140	7315
	SPECIAL CLEARANCE COUPLING O.D.		3642	4289	4157	4495	4730	5567	6140	7315
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m ³)	
	REGULAR COUPLING		W	299.01	257.99	34.44		177		0.07123
	SPECIAL CLEARANCE COUPLING		Wc	286.21	257.99	19.10		98		0.06928
LENGTH OF COUPLING (mm)		NL	332.46							
MAKE UP LOSS (mm)		ML	141.96							

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TECHNICAL INFORMATION

CASING

SIZE:	273.05 mm
NOMINAL WEIGHT:	67.71 kg/m
WALL THICKNESS:	10.16 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	273.05	INSIDE DIA.(mm) d	252.73	DRIFT DIA. (mm)			PLAIN END WT (kg/m)		65.81
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		14.4	17.0	17.0	17.6	17.8	18.0	18.0	18.0
	INTERNAL YIELD PRESSURE (MPa)		24.7	35.9	35.9	40.4	42.7	49.4	56.1	67.3
	BODY YIELD STRENGTH (kN)		3182	4628	4628	5207	5496	6364	7232	8678
	ULTIMATE STRENGTH (kN)		5496	5785	5496	5785	6075	7232	7810	9257
	YIELD TORQUE (Nm)		232840	338680	338680	381020	402180	465690	529190	635030

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	14170	17220	17220	18570	18570	19520	19520	19520
		OPTIMUM (Nm)	15660	19120	19120	20610	20610	21560	21560	21560
		MAXIMUM (Nm)	17150	21020	21020	22640	22640	23590	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	14170	17220	17220	18570	18570	19520	19520	19520
		OPTIMUM (Nm)	15660	19120	19120	20610	20610	21560	21560	21560
MAXIMUM (Nm)		17150	21020	21020	22640	22640	23590	23590	23590	

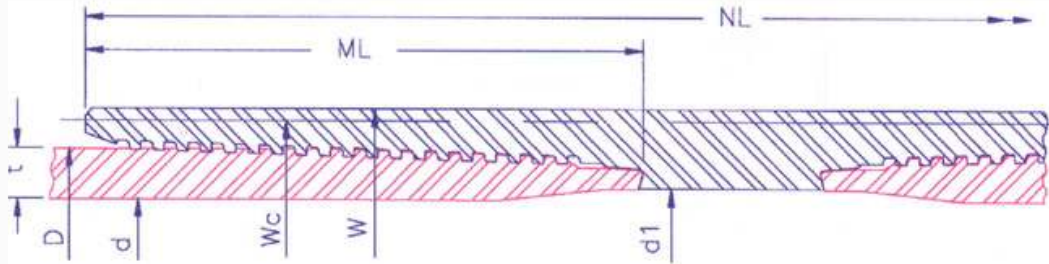
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		14.4	17.0	17.0	17.6	17.8	18.0	18.0	18.0
	INTERNAL YIELD PRESSURE (MPa)		24.7	35.9	35.9	40.4	42.7	49.4	56.1	67.3
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		3559	5177	5177	5824	6148	7119	8090	9707
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		1328	1932	1932	2173	2294	2656	3018	3622
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		4143	4878	4728	5112	5379	6331	6983	8320
	SPECIAL CLEARANCE COUPLING O.D.		4143	4714	4479	4714	4950	5893	6364	7543
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	299.01	256.79	34.63		156		0.08044
	SPECIAL CLEARANCE COUPLING		Wc	286.21	256.79	19.29		86		0.07848
LENGTH OF COUPLING (mm)		NL	332.46							
MAKE UP LOSS (mm)		ML	141.96							

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TECHNICAL INFORMATION

CASING

SIZE:	273.05 mm
NOMINAL WEIGHT:	75.90 kg/m
WALL THICKNESS:	11.43 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	273.05	INSIDE DIA.(mm) d	250.19	DRIFT DIA. (mm)					246.23	PLAIN END WT (kg/m)		73.66
	GRADE			K55	N80	L80	C90	C95	P110	Q125	150		
	COLLAPSE RESISTANCE (MPa)			18.7	22.2	22.2	23.4	24.0	25.2	25.8	25.9		
	INTERNAL YIELD PRESSURE (MPa)			27.8	40.4	40.4	45.5	48.0	55.6	63.1	75.8		
	BODY YIELD STRENGTH (kN)			3562	5182	5182	5829	6153	7125	8096	9716		
	ULTIMATE STRENGTH (kN)			6153	6477	6153	6477	6801	8096	8744	10364		
	YIELD TORQUE (Nm)			258280	375680	375680	422640	446120	516550	586990	704390		

RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
M A K E U P	REGULAR	MINIMUM (Nm)	15050	17690	17690	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	16680	19590	19590	21560	21560	21560	21560	21560
		MAXIMUM (Nm)	18300	21490	21490	23590	23590	23590	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	15050	17690	17690	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	16680	19590	19590	21560	21560	21560	21560	21560
		MAXIMUM (Nm)	18300	21490	21490	23590	23590	23590	23590	23590

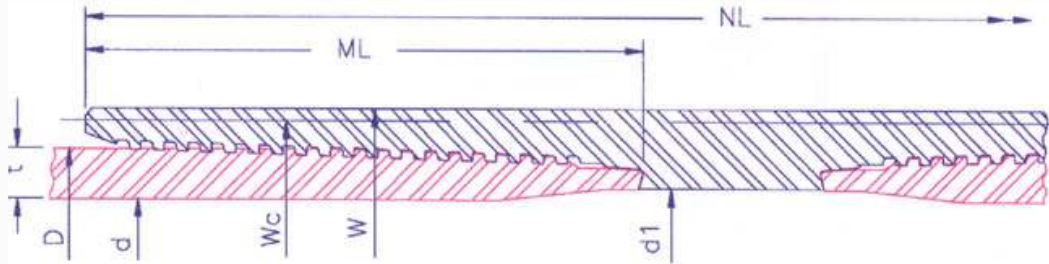
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		18.7	22.2	22.2	23.4	24.0	25.2	25.8	25.9
	INTERNAL YIELD PRESSURE (MPa)		27.8	40.4	40.4	45.5	48.0	55.6	63.1	75.8
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		3559	5177	5177	5824	6148	7119	8090	9707
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		1328	1932	1932	2173	2294	2656	3018	3622
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		4638	5461	5293	5723	6022	7089	7818	9314
	SPECIAL CLEARANCE COUPLING O.D.		4479	4714	4479	4714	4950	5893	6364	7543
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	299.01	254.99	34.92		139		0.08958
	SPECIAL CLEARANCE COUPLING		Wc	286.21	254.99	19.58		77		0.08762
LENGTH OF COUPLING (mm)		NL	332.46							
MAKE UP LOSS (mm)		ML	141.96							

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TECHNICAL INFORMATION

CASING

SIZE:	273.05 mm
NOMINAL WEIGHT:	82.59 kg/m
WALL THICKNESS:	12.57 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	273.05	INSIDE DIA.(mm) d	247.90	DRIFT DIA. (mm)			PLAIN END WT (kg/m)		
					243.94					80.67
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		23.4	27.7	27.7	28.7	29.5	31.8	33.4	34.7
	INTERNAL YIELD PRESSURE (MPa)		30.6	44.4	44.4	50.0	52.8	61.1	69.4	83.3
	BODY YIELD STRENGTH (kN)		3902	5675	5675	6384	6739	7803	8867	10641
	ULTIMATE STRENGTH (kN)		6739	7094	6739	7094	7448	8867	9577	11350
YIELD TORQUE (Nm)		280520	408020	408020	459020	484530	561030	637530	765040	

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
	REGULAR	MINIMUM (Nm)	15860	18570	18570	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	17630	20610	20610	21560	21560	21560	21560	21560	21560
		MAXIMUM (Nm)	19390	22640	22640	23590	23590	23590	23590	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	15860	18570	18570	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	17630	20610	20610	21560	21560	21560	21560	21560	21560
MAXIMUM (Nm)		19390	22640	22640	23590	23590	23590	23590	23590	23590	

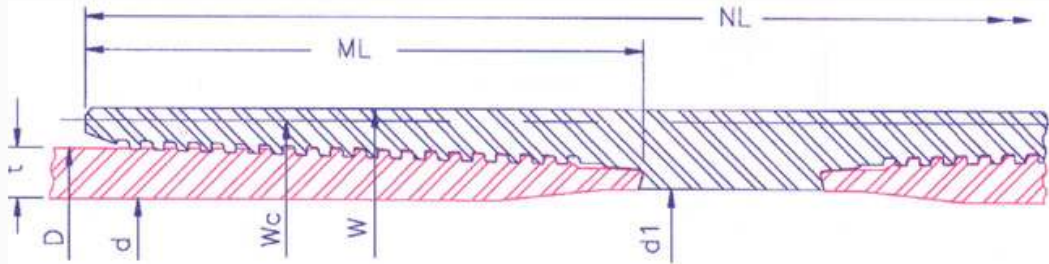
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		23.4	27.7	27.7	28.7	29.5	31.8	33.4	34.7
	INTERNAL YIELD PRESSURE (MPa)		30.6	44.4	44.4	50.0	52.8	61.1	69.4	83.3
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		3559	5177	5177	5824	6148	7119	8090	9707
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		1328	1932	1932	2173	2294	2656	3018	3622
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		5080	5981	5797	6268	6596	7763	8562	10201
	SPECIAL CLEARANCE COUPLING O.D.		4479	4714	4479	4714	4950	5893	6364	7543
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	299.01	254.99	34.92		127		0.09763
	SPECIAL CLEARANCE COUPLING		Wc	286.21	254.99	19.58		70		0.09567
LENGTH OF COUPLING (mm)		NL	332.46							
MAKE UP LOSS (mm)		ML	141.96							

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TECHNICAL INFORMATION

CASING

SIZE:	273.05 mm
NOMINAL WEIGHT:	90.33 kg/m
WALL THICKNESS:	13.84 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	273.05	INSIDE DIA.(mm) d	245.36	DRIFT DIA. (mm)			241.40	PLAIN END WT (kg/m)		88.40
	GRADE	K55		N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)	28.7		35.6	35.6	37.6	38.5	40.5	41.8	45.1	
	INTERNAL YIELD PRESSURE (MPa)	33.6		48.9	48.9	55.1	58.1	67.3	76.5	91.8	
	BODY YIELD STRENGTH (kN)	4275		6218	6218	6995	7384	8549	9715	11658	
	ULTIMATE STRENGTH (kN)	7384		7772	7384	7772	8161	9715	10493	12436	
	YIELD TORQUE (Nm)	304510		442930	442930	498290	525980	609030	692080	830490	

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
	REGULAR	MINIMUM (Nm)	16880	19520	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	18640	21560	21560	21560	21560	21560	21560	21560	21560
		MAXIMUM (Nm)	20410	23590	23590	23590	23590	23590	23590	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	16880	19520	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	18640	21560	21560	21560	21560	21560	21560	21560	21560
MAXIMUM (Nm)		20410	23590	23590	23590	23590	23590	23590	23590	23590	

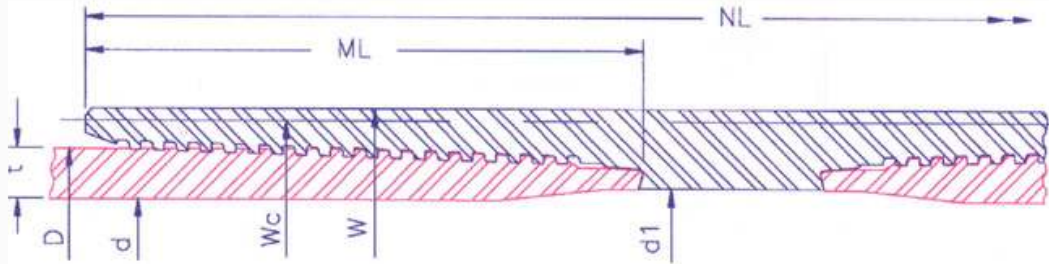
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		28.7	35.6	35.6	37.6	38.5	40.5	41.8	45.1
	INTERNAL YIELD PRESSURE (MPa)		33.6	48.9	48.9	55.1	58.1	67.3	76.5	91.8
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		3559	5177	5177	5824	6148	7119	8090	9707
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		1328	1932	1932	2173	2294	2656	3018	3622
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		5565	6553	6351	6867	7227	8506	9381	11177
	SPECIAL CLEARANCE COUPLING O.D.		4479	4714	4479	4714	4950	5893	6364	7543
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	299.01	254.99	34.92		116		0.10647
	SPECIAL CLEARANCE COUPLING		Wc	286.21	254.99	19.58		64		0.10451
LENGTH OF COUPLING (mm)		NL	332.46							
MAKE UP LOSS (mm)		ML	141.96							

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TECHNICAL INFORMATION

CASING

SIZE:	273.05 mm
NOMINAL WEIGHT:	97.77 kg/m
WALL THICKNESS:	15.11 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	273.05	INSIDE DIA.(mm) d	242.82	DRIFT DIA. (mm)			238.86	PLAIN END WT (kg/m)		96.03
	GRADE	K55		N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)	33.9		43.5	43.5	46.6	48.0	51.7	54.6	57.4	
	INTERNAL YIELD PRESSURE (MPa)	36.7		53.4	53.4	60.1	63.4	73.5	83.5	100.2	
	BODY YIELD STRENGTH (kN)	4644		6755	6755	7599	8022	9288	10555	12666	
	ULTIMATE STRENGTH (kN)	8022		8444	8022	8444	8866	10555	11399	13510	
	YIELD TORQUE (Nm)	327780		476770	476770	536360	566160	655550	744950	893940	

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
	REGULAR	MINIMUM (Nm)	17690	19520	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	19590	21560	21560	21560	21560	21560	21560	21560	21560
		MAXIMUM (Nm)	21490	23590	23590	23590	23590	23590	23590	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	17690	19520	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	19590	21560	21560	21560	21560	21560	21560	21560	21560
MAXIMUM (Nm)		21490	23590	23590	23590	23590	23590	23590	23590	23590	

C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		33.9	43.5	43.5	46.6	48.0	51.7	54.6	57.4
	INTERNAL YIELD PRESSURE (MPa)		36.7	53.4	53.4	60.1	63.4	73.5	83.5	100.2
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		3559	5177	5177	5824	6148	7119	8090	9707
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		1328	1932	1932	2173	2294	2656	3018	3622
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		6046	7119	6900	7461	7851	9241	10192	12142
	SPECIAL CLEARANCE COUPLING O.D.		4479	4714	4479	4714	4950	5893	6364	7543
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	299.01	254.99	34.92		107		0.11519
	SPECIAL CLEARANCE COUPLING		Wc	286.21	254.99	19.58		59		0.11324
LENGTH OF COUPLING (mm)		NL	332.46							
MAKE UP LOSS (mm)		ML	141.96							

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TECHNICAL INFORMATION

CASING

SIZE:	298.45 mm
NOMINAL WEIGHT:	69.94 kg/m
WALL THICKNESS:	9.52 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	298.45	INSIDE DIA.(mm) d	279.40	DRIFT DIA. (mm)			PLAIN END WT (kg/m)		
					275.44					
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		10.4	11.2	11.2	11.2	11.2	11.2	11.2	11.2
	INTERNAL YIELD PRESSURE (MPa)		21.2	30.8	30.8	34.7	36.6	42.4	48.1	57.8
	BODY YIELD STRENGTH (kN)		3279	4769	4769	5365	5663	6557	7451	8942
	ULTIMATE STRENGTH (kN)		5663	5961	5663	5961	6259	7451	8047	9538
YIELD TORQUE (Nm)		265010	385470	385470	433650	457740	530020	602290	722750	

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (Nm)	12880	15520	15520	17220	17220	18570	19520	19520
		OPTIMUM (Nm)	14240	17150	17150	19120	19120	20610	21560	21560
		MAXIMUM (Nm)	15590	18780	18780	21020	21020	22640	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	12880	15520	15520	17220	17220	18570	19520	19520
		OPTIMUM (Nm)	14240	17150	17150	19120	19120	20610	21560	21560
MAXIMUM (Nm)		15590	18780	18780	21020	21020	22640	23590	23590	

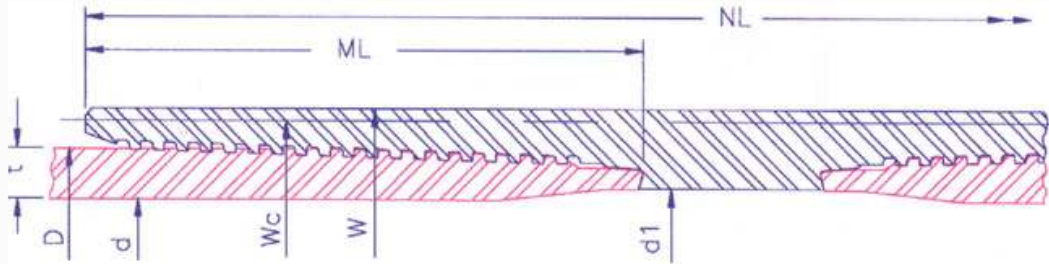
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		10.4	11.2	11.2	11.2	11.2	11.2	11.2	11.2
	INTERNAL YIELD PRESSURE (MPa)		21.2	30.8	30.8	34.7	36.6	42.4	48.1	57.8
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		3873	5633	5633	6337	6689	7745	8801	10562
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		1448	2106	2106	2369	2500	2895	3290	3948
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		4161	4963	4820	5226	5501	6467	7147	8520
	SPECIAL CLEARANCE COUPLING O.D.		4161	4963	4820	5145	5403	6432	6946	8232
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m ³)	
	REGULAR COUPLING		W	324.41	282.14	37.75		165		0.08316
	SPECIAL CLEARANCE COUPLING		Wc	311.61	282.14	21.07		91		0.08103
LENGTH OF COUPLING (mm)		NL	332.46							
MAKE UP LOSS (mm)		ML	141.96							

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TECHNICAL INFORMATION

CASING

SIZE:	298.45 mm
NOMINAL WEIGHT:	80.36 kg/m
WALL THICKNESS:	11.05 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	298.45	INSIDE DIA.(mm) d	276.35	DRIFT DIA. (mm)			PLAIN END WT (kg/m)		78.23
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		14.3	16.8	16.8	17.4	17.6	17.7	17.7	17.7
	INTERNAL YIELD PRESSURE (MPa)		24.6	35.7	35.7	40.2	42.4	49.1	55.8	67.0
	BODY YIELD STRENGTH (kN)		3783	5503	5503	6190	6534	7566	8598	10317
	ULTIMATE STRENGTH (kN)		6534	6878	6534	6878	7222	8598	9286	11005
	YIELD TORQUE (Nm)		302690	440280	440280	495310	522830	605380	687930	825520

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
	REGULAR	MINIMUM (Nm)	17690	19520	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	19590	21560	21560	21560	21560	21560	21560	21560	21560
		MAXIMUM (Nm)	21490	23590	23590	23590	23590	23590	23590	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	17690	19520	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	19590	21560	21560	21560	21560	21560	21560	21560	21560
MAXIMUM (Nm)		21490	23590	23590	23590	23590	23590	23590	23590	23590	

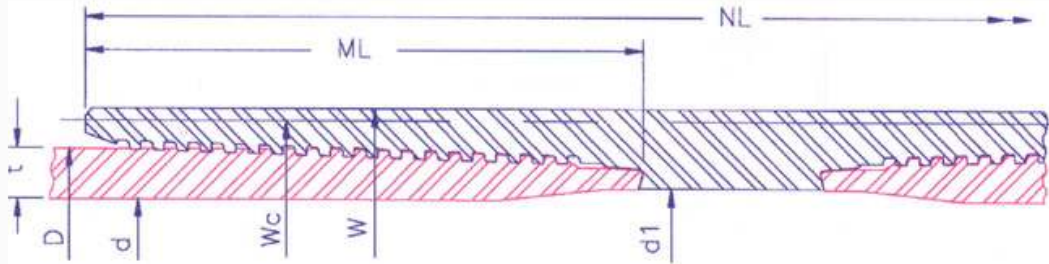
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		14.3	16.8	16.8	17.4	17.6	17.7	17.7	17.7
	INTERNAL YIELD PRESSURE (MPa)		24.6	35.7	35.7	40.2	42.4	49.1	55.8	67.0
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		3873	5633	5633	6337	6689	7745	8801	10562
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		1448	2106	2106	2369	2500	2895	3290	3948
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		4801	5726	5562	6030	6347	7462	8247	9831
	SPECIAL CLEARANCE COUPLING O.D.		4801	5145	4888	5145	5403	6432	6946	8232
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	324.41	280.49	38.04		143		0.09526
	SPECIAL CLEARANCE COUPLING		Wc	311.61	280.49	21.36		79		0.09313
LENGTH OF COUPLING (mm)		NL	332.46							
MAKE UP LOSS (mm)		ML	141.96							

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TECHNICAL INFORMATION

CASING

SIZE:	298.45 mm
NOMINAL WEIGHT:	89.29 kg/m
WALL THICKNESS:	12.42 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	298.45	INSIDE DIA.(mm) d	273.61	DRIFT DIA. (mm)		269.65	PLAIN END WT (kg/m)		87.52
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		18.4	21.9	21.9	23.1	23.7	24.8	25.4	25.4
	INTERNAL YIELD PRESSURE (MPa)		27.6	40.2	40.2	45.2	47.7	55.2	62.8	75.3
	BODY YIELD STRENGTH (kN)		4232	6156	6156	6926	7310	8465	9619	11543
	ULTIMATE STRENGTH (kN)		7310	7695	7310	7695	8080	9619	10389	12312
	YIELD TORQUE (Nm)		335550	488080	488080	549090	579590	671110	762620	915150

RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
M A K E U P	REGULAR	MINIMUM (Nm)	18570	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	20610	21560	21560	21560	21560	21560	21560	21560
		MAXIMUM (Nm)	22640	23590	23590	23590	23590	23590	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	18570	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	20610	21560	21560	21560	21560	21560	21560	21560
		MAXIMUM (Nm)	22640	23590	23590	23590	23590	23590	23590	23590

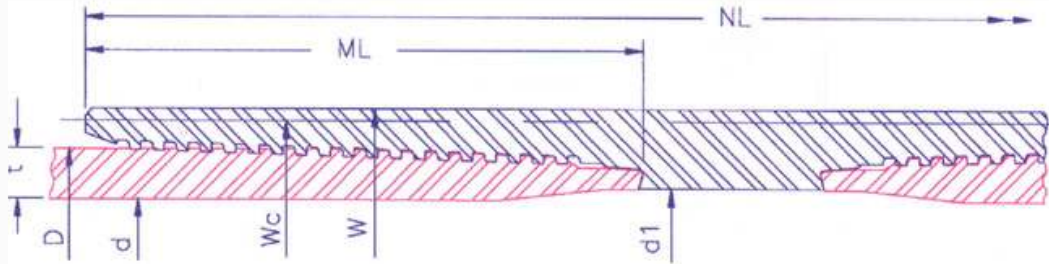
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		18.4	21.9	21.9	23.1	23.7	24.8	25.4	25.4
	INTERNAL YIELD PRESSURE (MPa)		27.6	40.2	40.2	45.2	47.7	55.2	62.8	75.3
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		3873	5633	5633	6337	6689	7745	8801	10562
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		1448	2106	2106	2369	2500	2895	3290	3948
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		5372	6406	6222	6746	7101	8348	9227	10998
	SPECIAL CLEARANCE COUPLING O.D.		4888	5145	4888	5145	5403	6432	6946	8232
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m ³)	
	REGULAR COUPLING		W	324.41	279.98	38.13		128		0.10596
	SPECIAL CLEARANCE COUPLING		Wc	311.61	279.98	21.45		70		0.10384
	LENGTH OF COUPLING (mm)		NL	332.46						
MAKE UP LOSS (mm)		ML	141.96							

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TECHNICAL INFORMATION

CASING

SIZE:	298.45 mm
NOMINAL WEIGHT:	96.73 kg/m
WALL THICKNESS:	13.56 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	298.45	INSIDE DIA.(mm) d	271.32	DRIFT DIA. (mm)			267.36	PLAIN END WT (kg/m)		95.20
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)		22.7	26.7	26.7	27.9	28.8	30.8	32.3	33.3	
	INTERNAL YIELD PRESSURE (MPa)		30.2	43.9	43.9	49.4	52.1	60.3	68.5	82.3	
	BODY YIELD STRENGTH (kN)		4603	6696	6696	7533	7951	9207	10462	12555	
	ULTIMATE STRENGTH (kN)		7951	8370	7951	8370	8788	10462	11299	13392	
	YIELD TORQUE (Nm)		362200	526830	526830	592680	625610	724390	823170	987810	

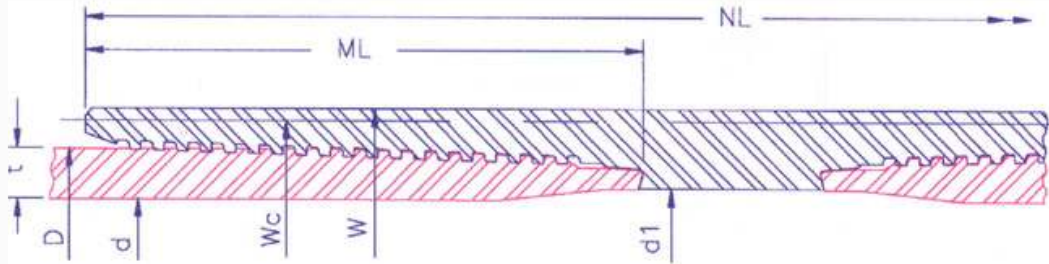
RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
M A K E U P	REGULAR	MINIMUM (Nm)	19520	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	21560	21560	21560	21560	21560	21560	21560	21560
		MAXIMUM (Nm)	23590	23590	23590	23590	23590	23590	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	19520	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	21560	21560	21560	21560	21560	21560	21560	21560
		MAXIMUM (Nm)	23590	23590	23590	23590	23590	23590	23590	23590

C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		22.7	26.7	26.7	27.9	28.8	30.8	32.3	33.3	
	INTERNAL YIELD PRESSURE (MPa)		30.2	43.9	43.9	49.4	52.1	60.3	68.5	82.3	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		3873	5633	5633	6337	6689	7745	8801	10562	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		1448	2106	2106	2369	2500	2895	3290	3948	
	PARTING LOAD (kN)										
	REGULAR COUPLING O.D.		5843	6968	6768	7338	7723	9080	10036	11963	
	SPECIAL CLEARANCE COUPLING O.D.		4888	5145	4888	5145	5403	6432	6946	8232	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)		
	REGULAR COUPLING		W	324.41	279.98	38.13		117		0.11476	
	SPECIAL CLEARANCE COUPLING		Wc	311.61	279.98	21.45		65		0.11263	
	LENGTH OF COUPLING (mm)		NL	332.46		The above information is for reference only. The information is subject to change or modification without notice. Please contact HSC for the latest information					
MAKE UP LOSS (mm)		ML	141.96								

TECHNICAL INFORMATION

CASING

SIZE:	339.72 mm
NOMINAL WEIGHT:	81.10 kg/m
WALL THICKNESS:	9.65 mm
THREADS PER INCH:	5



PIPE BODY	OUTSIDE DIA.(mm)D	339.72	INSIDE DIA.(mm) d	320.42	DRIFT DIA. (mm)			PLAIN END WT (kg/m)		78.49
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		7.8	7.9	7.9	7.9	7.9	7.9	7.9	7.9
	INTERNAL YIELD PRESSURE (MPa)		18.9	27.4	27.4	30.9	32.6	37.7	42.9	51.4
	BODY YIELD STRENGTH (kN)		3795	5521	5521	6211	6556	7591	8626	10351
	ULTIMATE STRENGTH (kN)		6556	6901	6556	6901	7246	8626	9316	11041
	YIELD TORQUE (Nm)		351670	511520	511520	575460	607430	703330	799240	959090

MAKEUP	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
	REGULAR	MINIMUM (Nm)	14170	17690	17690	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	15660	19590	19590	21560	21560	21560	21560	21560	21560
		MAXIMUM (Nm)	17150	21490	21490	23590	23590	23590	23590	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	14170	17690	17690	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	15660	19590	19590	21560	21560	21560	21560	21560	21560
MAXIMUM (Nm)		17150	21490	21490	23590	23590	23590	23590	23590	23590	

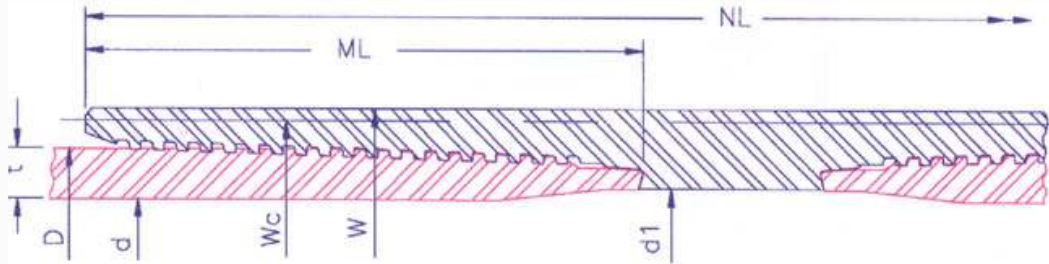
CONNECTION	COLLAPSE RESISTANCE (MPa)		7.8	7.9	7.9	7.9	7.9	7.9	7.9	7.9
	INTERNAL YIELD PRESSURE (MPa)		18.9	27.4	27.4	30.9	32.6	37.7	42.9	51.4
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		4387	6381	6381	7179	7578	8774	9971	11965
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		2896	4213	4213	4739	5003	5793	6582	7899
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		4615	5626	5483	5973	6289	7379	8185	9765
	SPECIAL CLEARANCE COUPLING O.D.		4615	5626	5483	5973	6289	7379	8185	9765
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	365.71	324.05	42.64		162		0.09612
	SPECIAL CLEARANCE COUPLING		Wc	358.80	324.05	32.39		123		0.09482
LENGTH OF COUPLING (mm)		NL	332.46							
MAKE UP LOSS (mm)		ML	143.31							

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TECHNICAL INFORMATION

CASING

SIZE:	339.72 mm
NOMINAL WEIGHT:	90.78 kg/m
WALL THICKNESS:	10.92 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	339.72	INSIDE DIA.(mm) d	317.88	DRIFT DIA. (mm)			313.92	PLAIN END WT (kg/m)		88.47
	GRADE	K55		N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)	10.6	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	
	INTERNAL YIELD PRESSURE (MPa)	21.3	31.0	31.0	34.9	36.9	42.7	48.5	58.2		
	BODY YIELD STRENGTH (kN)	4278	6223	6223	7001	7390	8557	9723	11668		
	ULTIMATE STRENGTH (kN)	7390	7779	7390	7779	8168	9723	10501	12446		
	YIELD TORQUE (Nm)	393460	572310	572310	643850	679610	786920	894230	1073080		

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
	REGULAR	MINIMUM (Nm)	18570	19520	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	20610	21560	21560	21560	21560	21560	21560	21560	21560
		MAXIMUM (Nm)	22640	23590	23590	23590	23590	23590	23590	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	18570	19520	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	20610	21560	21560	21560	21560	21560	21560	21560	21560
MAXIMUM (Nm)		22640	23590	23590	23590	23590	23590	23590	23590	23590	

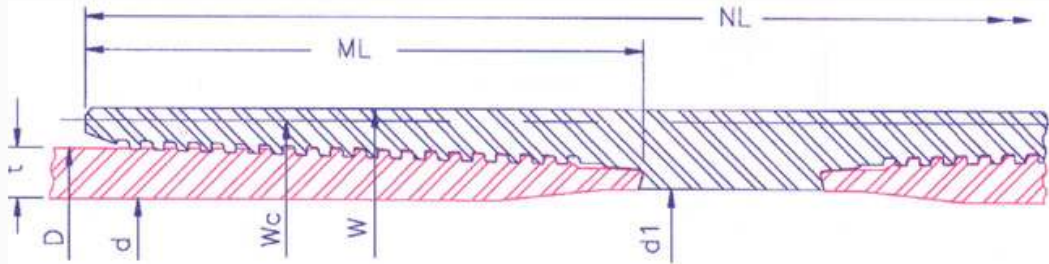
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		10.6	11.5	11.5	11.5	11.5	11.5	11.5	11.5
	INTERNAL YIELD PRESSURE (MPa)		21.3	31.0	31.0	34.9	36.9	42.7	48.5	58.2
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		4387	6381	6381	7179	7578	8774	9971	11965
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		2896	4213	4213	4739	5003	5793	6582	7899
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		5202	6341	6181	6733	7089	8318	9226	11007
	SPECIAL CLEARANCE COUPLING O.D.		5202	6341	6181	6733	7089	8318	9226	11007
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	365.71	322.30	42.97		144		0.10772
	SPECIAL CLEARANCE COUPLING		Wc	358.80	322.30	32.72		109		0.10642
LENGTH OF COUPLING (mm)		NL	332.46							
MAKE UP LOSS (mm)		ML	143.31							

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TECHNICAL INFORMATION

CASING

SIZE:	339.72 mm
NOMINAL WEIGHT:	101.20 kg/m
WALL THICKNESS:	12.19 mm
THREADS PER INCH:	5



PIPE BODY	OUTSIDE DIA.(mm)D	339.72	INSIDE DIA.(mm) d	315.34	DRIFT DIA. (mm)			311.38	PLAIN END WT (kg/m)		98.37
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)		13.4	15.6	15.6	16.0	16.1	16.1	16.1	16.1	
	INTERNAL YIELD PRESSURE (MPa)		23.8	34.6	34.6	39.0	41.1	47.6	54.1	65.0	
	BODY YIELD STRENGTH (kN)		4757	6920	6920	7785	8217	9515	10812	12974	
	ULTIMATE STRENGTH (kN)		8217	8650	8217	8650	9082	10812	11677	13839	
	YIELD TORQUE (Nm)		434270	631660	631660	710620	750090	868530	986970	1184360	

MAKEUP	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
	REGULAR	MINIMUM (Nm)	19520	19520	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	21560	21560	21560	21560	21560	21560	21560	21560	21560
		MAXIMUM (Nm)	23590	23590	23590	23590	23590	23590	23590	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	19520	19520	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	21560	21560	21560	21560	21560	21560	21560	21560	21560
MAXIMUM (Nm)		23590	23590	23590	23590	23590	23590	23590	23590	23590	

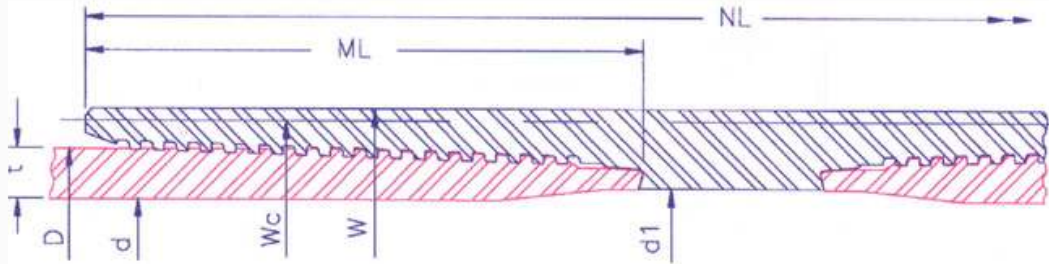
CONNECTION	COLLAPSE RESISTANCE (MPa)		13.4	15.6	15.6	16.0	16.1	16.1	16.1	16.1
	INTERNAL YIELD PRESSURE (MPa)		23.8	34.6	34.6	39.0	41.1	47.6	54.1	65.0
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		4387	6381	6381	7179	7578	8774	9971	11965
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		2896	4213	4213	4739	5003	5793	6582	7899
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		5785	7051	6873	7486	7883	9249	10259	12239
	SPECIAL CLEARANCE COUPLING O.D.		5785	7051	6873	7486	7883	9249	10259	12239
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	365.71	319.89	43.44		129		0.11927
	SPECIAL CLEARANCE COUPLING		Wc	358.80	319.89	33.19		98		0.11796
LENGTH OF COUPLING (mm)		NL	332.46							
MAKE UP LOSS (mm)		ML	143.31							

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TECHNICAL INFORMATION

CASING

SIZE:	339.72 mm
NOMINAL WEIGHT:	107.15 kg/m
WALL THICKNESS:	13.06 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	339.72	INSIDE DIA.(mm) d	313.61	DRIFT DIA. (mm)			309.65	PLAIN END WT (kg/m)		105.06
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (MPa)		15.3	18.4	18.4	19.2	19.4	19.8	19.9	19.9	
	INTERNAL YIELD PRESSURE (MPa)		25.5	37.1	37.1	41.7	44.1	51.0	58.0	69.6	
	BODY YIELD STRENGTH (kN)		5081	7390	7390	8314	8776	10162	11547	13857	
	ULTIMATE STRENGTH (kN)		8776	9238	8776	9238	9700	11547	12471	14781	
	YIELD TORQUE (Nm)		461450	671210	671210	755110	797060	922910	1048760	1258510	

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
	REGULAR	MINIMUM (Nm)	19520	19520	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	21560	21560	21560	21560	21560	21560	21560	21560	21560
		MAXIMUM (Nm)	23590	23590	23590	23590	23590	23590	23590	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	19520	19520	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	21560	21560	21560	21560	21560	21560	21560	21560	21560
MAXIMUM (Nm)		23590	23590	23590	23590	23590	23590	23590	23590	23590	

C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		15.3	18.4	18.4	19.2	19.4	19.8	19.9	19.9
	INTERNAL YIELD PRESSURE (MPa)		25.5	37.1	37.1	41.7	44.1	51.0	58.0	69.6
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		4387	6381	6381	7179	7578	8774	9971	11965
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		2896	4213	4213	4739	5003	5793	6582	7899
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		6178	7531	7340	7996	8419	9878	10957	13072
	SPECIAL CLEARANCE COUPLING O.D.		6178	7531	7340	7996	8419	9878	10852	12861
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	365.71	319.89	43.44		121		0.12696
	SPECIAL CLEARANCE COUPLING		Wc	358.80	319.89	33.19		92		0.12565
LENGTH OF COUPLING (mm)		NL	332.46							
MAKE UP LOSS (mm)		ML	143.31							

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TECHNICAL INFORMATION

CASING

SIZE:	339.72 mm
NOMINAL WEIGHT:	114.59 kg/m
WALL THICKNESS:	13.97 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	339.72	INSIDE DIA.(mm) d	311.79	DRIFT DIA. (mm)			PLAIN END WT (kg/m)		112.10
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		17.8	21.3	21.3	22.5	23.0	24.1	24.5	24.5
	INTERNAL YIELD PRESSURE (MPa)		27.3	39.7	39.7	44.7	47.1	54.6	62.0	74.4
	BODY YIELD STRENGTH (kN)		5421	7886	7886	8872	9364	10843	12322	14786
	ULTIMATE STRENGTH (kN)		9364	9857	9364	9857	10350	12322	13307	15772
	YIELD TORQUE (Nm)		489760	712370	712370	801420	845940	979510	1113090	1335700

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
	REGULAR	MINIMUM (Nm)	19520	19520	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	21560	21560	21560	21560	21560	21560	21560	21560	21560
		MAXIMUM (Nm)	23590	23590	23590	23590	23590	23590	23590	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	19520	19520	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	21560	21560	21560	21560	21560	21560	21560	21560	21560
MAXIMUM (Nm)		23590	23590	23590	23590	23590	23590	23590	23590	23590	

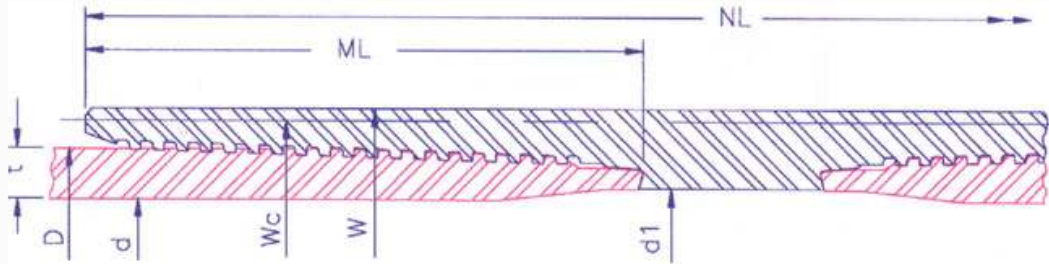
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		17.8	21.3	21.3	22.5	23.0	24.1	24.5	24.5
	INTERNAL YIELD PRESSURE (MPa)		27.3	39.7	39.7	44.7	47.1	54.6	62.0	74.4
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		4387	6381	6381	7179	7578	8774	9971	11965
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		2896	4213	4213	4739	5003	5793	6582	7899
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		6592	8036	7832	8532	8983	10541	11691	13948
	SPECIAL CLEARANCE COUPLING O.D.		6592	8036	7637	8038	8440	10048	10852	12861
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	365.71	319.89	43.44		113		0.13504
	SPECIAL CLEARANCE COUPLING		Wc	358.80	319.89	33.19		86		0.13373
LENGTH OF COUPLING (mm)		NL	332.46							
MAKE UP LOSS (mm)		ML	143.31							

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TECHNICAL INFORMATION

CASING

SIZE:	339.72 mm
NOMINAL WEIGHT:	120.09 kg/m
WALL THICKNESS:	14.73 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	339.72	INSIDE DIA.(mm) d	310.26	DRIFT DIA. (mm)			PLAIN END WT (kg/m)		117.95
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		20.4	23.8	23.8	25.3	26.0	27.6	28.5	28.8
	INTERNAL YIELD PRESSURE (MPa)		28.8	41.9	41.9	47.1	49.7	57.6	65.4	78.5
	BODY YIELD STRENGTH (kN)		5704	8297	8297	9334	9852	11408	12963	15556
	ULTIMATE STRENGTH (kN)		9852	10371	9852	10371	10889	12963	14000	16593
	YIELD TORQUE (Nm)		512970	746130	746130	839400	886030	1025930	1165830	1399000

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
	REGULAR	MINIMUM (Nm)	19520	19520	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	21560	21560	21560	21560	21560	21560	21560	21560	21560
		MAXIMUM (Nm)	23590	23590	23590	23590	23590	23590	23590	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	19520	19520	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	21560	21560	21560	21560	21560	21560	21560	21560	21560
MAXIMUM (Nm)		23590	23590	23590	23590	23590	23590	23590	23590	23590	

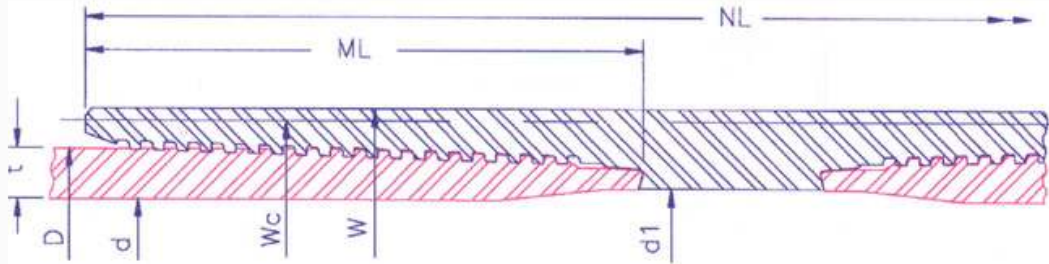
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		20.4	23.8	23.8	25.3	26.0	27.6	28.5	28.8
	INTERNAL YIELD PRESSURE (MPa)		28.8	41.9	41.9	47.1	49.7	57.6	65.4	78.5
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		4387	6381	6381	7179	7578	8774	9971	11965
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		2896	4213	4213	4739	5003	5793	6582	7899
	PARTING LOAD (kN)									
	REGULAR COUPLING O.D.		6936	8454	8240	8976	9451	11090	12300	14675
	SPECIAL CLEARANCE COUPLING O.D.		6936	8038	7637	8038	8440	10048	10852	12861
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)	
	REGULAR COUPLING		W	365.71	319.89	43.44		108		0.14173
	SPECIAL CLEARANCE COUPLING		Wc	358.80	319.89	33.19		82		0.14042
LENGTH OF COUPLING (mm)		NL	332.46							
MAKE UP LOSS (mm)		ML	143.31							

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TECHNICAL INFORMATION

CASING

SIZE:	339.72 mm
NOMINAL WEIGHT:	126.49 kg/m
WALL THICKNESS:	15.44 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	339.72	INSIDE DIA.(mm) d	308.84	DRIFT DIA. (mm)			PLAIN END WT (kg/m)		123.37
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		22.7	26.7	26.7	27.9	28.8	30.8	32.3	33.3
	INTERNAL YIELD PRESSURE (MPa)		30.2	43.9	43.9	49.4	52.1	60.3	68.6	82.3
	BODY YIELD STRENGTH (kN)		5966	8678	8678	9763	10305	11932	13559	16271
	ULTIMATE STRENGTH (kN)		10305	10847	10305	10847	11390	13559	14644	17356
	YIELD TORQUE (Nm)		534320	777190	777190	874340	922920	1068640	1214370	1457240

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
	REGULAR	MINIMUM (Nm)	19520	19520	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	21560	21560	21560	21560	21560	21560	21560	21560	21560
		MAXIMUM (Nm)	23590	23590	23590	23590	23590	23590	23590	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	19520	19520	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	21560	21560	21560	21560	21560	21560	21560	21560	21560
MAXIMUM (Nm)		23590	23590	23590	23590	23590	23590	23590	23590	23590	

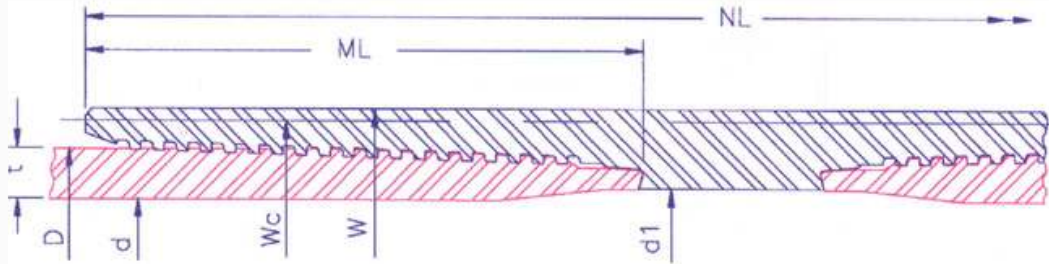
C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		22.7	26.7	26.7	27.9	28.8	30.8	32.3	33.3	
	INTERNAL YIELD PRESSURE (MPa)		30.2	43.9	43.9	49.4	52.1	60.3	68.6	82.3	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		4387	6381	6381	7179	7578	8774	9971	11965	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		2896	4213	4213	4739	5003	5793	6582	7899	
			PARTING LOAD (kN)								
	REGULAR COUPLING O.D.		7255	8843	8619	9389	9885	11599	12866	15349	
	SPECIAL CLEARANCE COUPLING O.D.		7255	8038	7637	8038	8440	10048	10852	12861	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)		
	REGULAR COUPLING	W	365.71	319.89	43.44		103		0.14793		
	SPECIAL CLEARANCE COUPLING	Wc	358.80	319.89	33.19		78		0.14662		
LENGTH OF COUPLING (mm)	NL	332.46									
MAKE UP LOSS (mm)	ML	143.31									

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TECHNICAL INFORMATION

CASING

SIZE:	339.72 mm
NOMINAL WEIGHT:	127.98 kg/m
WALL THICKNESS:	15.88 mm
THREADS PER INCH:	5



P I P E B O D Y	OUTSIDE DIA.(mm)D	339.72	INSIDE DIA.(mm) d	307.98	DRIFT DIA. (mm)			PLAIN END WT (kg/m)		126.66
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (MPa)		24.2	28.9	28.9	30.0	30.5	32.8	34.6	36.2
	INTERNAL YIELD PRESSURE (MPa)		31.0	45.1	45.1	50.7	53.6	62.0	70.5	84.6
	BODY YIELD STRENGTH (kN)		6125	8909	8909	10022	10579	12250	13920	16704
	ULTIMATE STRENGTH (kN)		10579	11136	10579	11136	11693	13920	15034	17818
	YIELD TORQUE (Nm)		547140	795840	795840	895330	945070	1094290	1243510	1492210

M A K E U P	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
	REGULAR	MINIMUM (Nm)	19520	19520	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	21560	21560	21560	21560	21560	21560	21560	21560	21560
		MAXIMUM (Nm)	23590	23590	23590	23590	23590	23590	23590	23590	23590
	SPECIAL CLEARANCE	MINIMUM (Nm)	19520	19520	19520	19520	19520	19520	19520	19520	19520
		OPTIMUM (Nm)	21560	21560	21560	21560	21560	21560	21560	21560	21560
MAXIMUM (Nm)		23590	23590	23590	23590	23590	23590	23590	23590	23590	

C O N N E C T I O N	COLLAPSE RESISTANCE (MPa)		24.2	28.9	28.9	30.0	30.5	32.8	34.6	36.2	
	INTERNAL YIELD PRESSURE (MPa)		31.0	45.1	45.1	50.7	53.6	62.0	70.5	84.6	
	MAXIMUM LOAD OF REG. COUPLING FACE (kN)		4387	6381	6381	7179	7578	8774	9971	11965	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kN)		2896	4213	4213	4739	5003	5793	6582	7899	
	PARTING LOAD (kN)										
	REGULAR COUPLING O.D.		7447	9078	8848	9638	10148	11908	13208	15758	
	SPECIAL CLEARANCE COUPLING O.D.		7447	8038	7637	8038	8440	10048	10852	12861	
			OUTSIDE DIA.(mm)	INSIDE DIA.(mm)	WEIGHT (kg)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (m³)		
	REGULAR COUPLING		W	365.71	319.89	43.44		100		0.15167	
	SPECIAL CLEARANCE COUPLING		Wc	358.80	319.89	33.19		76		0.15037	
LENGTH OF COUPLING (mm)		NL	332.46								
MAKE UP LOSS (mm)		ML	143.31								

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