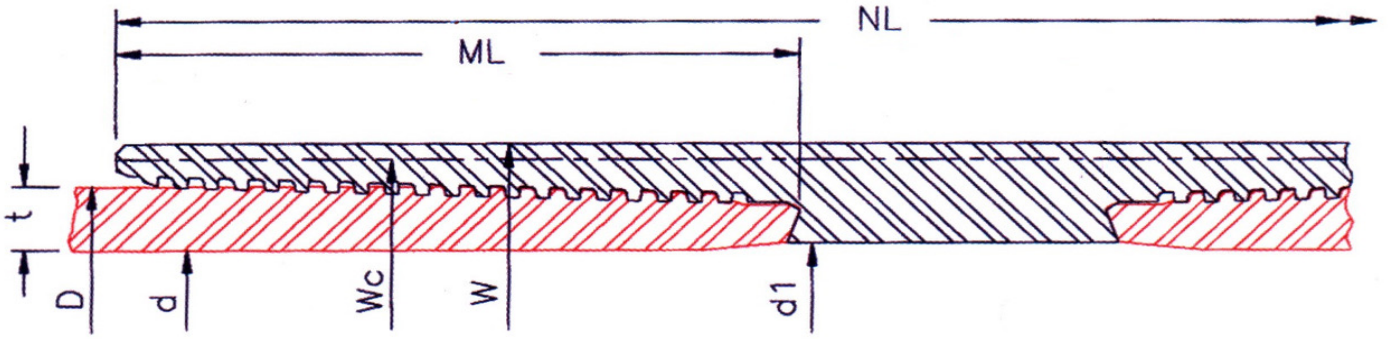
TECHNICAL INFORMATION

TUBING

SIZE:	**4 1/2" (114.30mm)**
NOMINAL WEIGHT:	**12.60 lb/ft (18.75 kg/m)**
WALL THICKNESS:	**0.271" (6.88mm)**
THREADS PER INCH:	**6**



PIPE BODY	OUTSIDE DIA. (in)	D	4.5	INSIDE DIA. (in)		d	3.958	DRIFT DIA. (in)	3.833	PLAIN END WT (lb/ft)		12.24
	GRADE			55	N80	80	90	95	C110	110	C125	125	140	150
	COLLAPSE RESISTANCE (psi)			5730	7500	7500	8120	8410	9210	9210	9890	9890	10460	10760
	INTERNAL YIELD PRESSURE (psi)			5800	8430	8430	9480	10010	11590	11590	13170	13170	14750	15810
	BODY YIELD STRENGTH (kips)			198	288	288	324	342	396	396	450	450	504	540
	ULTIMATE STRENGTH (kips)			342	360	342	360	378	414	450	468	486	540	576
	YIELD TORQUE (ft.lb)			19010	27650	27650	31110	32840	38020	38020	43210	43210	48390	51850
MAKE UP	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0													
	REGULAR (ft.lb)	MINIMUM		3190	4300	4300	4950	4950	5540	5540	6190	6190	6510	7170
		OPTIMUM		3540	4770	4770	5500	5500	6150	6150	6870	6870	7230	7960
		MAXIMUM		3890	5240	5240	6050	6050	6760	6760	7550	7550	7950	8750
	SPECIAL CLEARANCE (ft.lb)	MINIMUM		2840	3830	3830	4400	4400	4930	4930	5510	5510	5790	6380
		OPTIMUM		3190	4300	4300	4950	4950	5540	5540	6190	6190	6510	7170
		MAXIMUM		3540	4770	4770	5500	5500	6150	6150	6870	6870	7230	7960
CONNECTION	COLLAPSE RESISTANCE (psi)			5730	7500	7500	8120	8410	9210	9210	9890	9890	10460	10760
	INTERNAL YIELD PRESSURE (psi)			5800	8430	8430	9480	10010	11590	11590	13170	13170	14750	15810
	MAXIMUM LOAD OF COUPLING FACE (kips)	REGULAR		101	147	147	166	175	203	203	230	230	258	276
		S.C.		68	99	99	112	118	136	136	155	155	174	186
				PARTING LOAD (kips)										
	REGULAR COUPLING			298	328	314	334	351	388	416	439	453	503	537
	S.C. COUPLING			275	289	275	289	304	333	361	376	390	434	463

		OUTSIDE DIA. (in)	INSIDE DIA. (in)	WEIGHT (lb)	JOINT EFFICIENCY (%)	30' JOINT MUD DISPLACEMENT (in^3)
COUPLING OUTSIDE DIAMETER	W	4.892	3.994	10.62	101	1323
	Wc	4.813	3.994	8.94	85	1317
COUPLING LENGTH (in)	NL	9.820	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 (in)	ML	3.969				