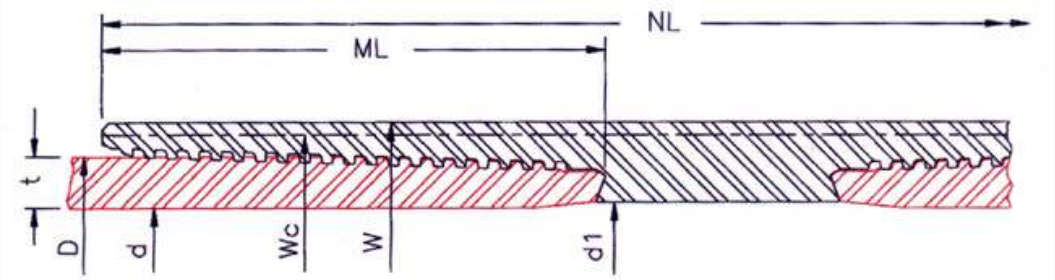
TECHNICAL INFORMATION TUBING

SIZE:	4 1/2 "
NOMINAL WEIGHT:	12.60 lb/ft
WALL THICKNESS:	0.271 "
THREADS PER INCH:	6



PIPE BODY	OUTSIDE DIA.(in)D	4.500	INSIDE DIA.(in) d	3.958	DRIFT DIA. (in)	3.833	PLAIN END WT (lb/ft)	12.24		
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (psi)		5730	7500	7500	8120	8410	9210	9890	10760
	INTERNAL YIELD PRESSURE (psi)		5800	8430	8430	9480	10010	11590	13170	15810
	BODY YIELD STRENGTH (kips)		198	288	288	324	342	396	450	540
	ULTIMATE STRENGTH (kips)		342	360	342	360	378	450	486	576
	YIELD TORQUE (ft/lb)		19000	27700	27700	31100	32800	38000	43200	51800

MAKE UP	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0								
	REGULAR	MINIMUM (ft/lb)	3190	4300	4300	4950	4950	5540	6190	7170
		OPTIMUM (ft/lb)	3540	4770	4770	5500	5500	6150	6870	7960
		MAXIMUM (ft/lb)	3890	5240	5240	6050	6050	6760	7550	8750
	SPECIAL CLEARANCE	MINIMUM (ft/lb)	2840	3830	3830	4400	4400	4930	5510	6380
		OPTIMUM (ft/lb)	3190	4300	4300	4950	4950	5540	6190	7170
		MAXIMUM (ft/lb)	3540	4770	4770	5500	5500	6150	6870	7960

CONNECTION	COLLAPSE RESISTANCE (psi)		5730	7500	7500	8120	8410	9210	9890	10760
	INTERNAL YIELD PRESSURE (psi)		5800	8430	8430	9480	10010	11590	13170	15810
	MAXIMUM LOAD OF REG. COUPLING FACE (kips)		101	147	147	166	175	203	230	276
	MAXIMUM LOAD OF S.C. COUPLING FACE (kips)		68	99	99	112	118	136	155	186
			PARTING LOAD (kips)							
	REGULAR COUPLING O.D.		298	328	314	334	351	416	453	537
	SPECIAL CLEARANCE COUPLING O.D.		275	289	275	289	304	361	390	463

		OUTSIDE DIA.(in)	INSIDE DIA.(in)	WEIGHT (lb)	JOINT EFFICENCY (%)	30' JOINT MUD DISPLACEMENT (in^3)
REGULAR COUPLING	W	4.892	3.994	10.84	101	1325
SPECIAL CLEARANCE COUPLING	Wc	4.813	3.994	9.17	85	1319
LENGTH OF COUPLING (in)	NL	9.821				
MAKE UP LOSS (in)	ML	3.969				

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