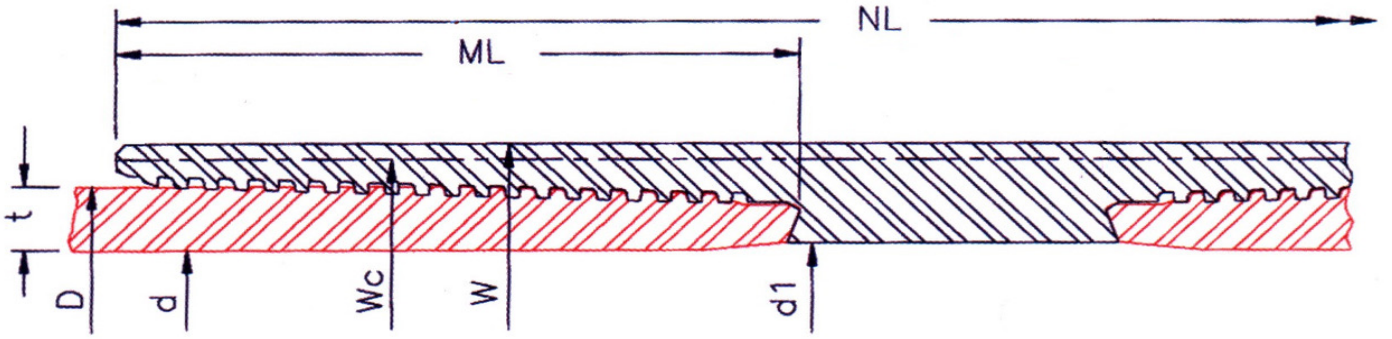
TECHNICAL INFORMATION

TUBING

SIZE:	4 1/2" (114.30mm)
NOMINAL WEIGHT:	15.10 lb/ft (22.47 kg/m)
WALL THICKNESS:	0.337" (8.56mm)
THREADS PER INCH:	6



PIPE BODY	OUTSIDE DIA. (in)	D	4.5	INSIDE DIA. (in)	d	3.826	DRIFT DIA. (in)	3.701	PLAIN END WT (lb/ft)	14.98		
	GRADE			55	N80	80	90	95	C110	110	C125	125	140	150
	COLLAPSE RESISTANCE (psi)			7620	11080	11080	12220	12760	14340	14340	15830	15830	17230	18100
	INTERNAL YIELD PRESSURE (psi)			7210	10480	10480	11800	12450	14420	14420	16380	16380	18350	19660
	BODY YIELD STRENGTH (kips)			242	353	353	397	419	485	485	551	551	617	661
	ULTIMATE STRENGTH (kips)			419	441	419	441	463	507	551	573	595	661	705
	YIELD TORQUE (ft.lb)			22610	32880	32880	36990	39050	45210	45210	51380	51380	57540	61650
MAKE UP	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0													
	REGULAR (ft.lb)	MINIMUM		3780	5220	5220	5990	5990	6840	6840	7470	7470	8150	8780
		OPTIMUM		4200	5790	5790	6650	6650	7590	7590	8300	8300	9050	9750
		MAXIMUM		4620	6360	6360	7310	7310	8340	8340	9130	9130	9950	10720
	SPECIAL CLEARANCE (ft.lb)	MINIMUM		3360	4650	4650	5330	5330	6090	6090	6640	6640	7250	7810
		OPTIMUM		3780	5220	5220	5990	5990	6840	6840	7470	7470	8150	8780
		MAXIMUM		4200	5790	5790	6650	6650	7590	7590	8300	8300	9050	9750
CONNECTION	COLLAPSE RESISTANCE (psi)			7620	11080	11080	12220	12760	14340	14340	15830	15830	17230	18100
	INTERNAL YIELD PRESSURE (psi)			7210	10480	10480	11800	12450	14420	14420	16380	16380	18350	19660
	MAXIMUM LOAD OF COUPLING FACE (kips)	REGULAR		152	221	221	248	262	304	304	345	345	386	414
		S.C.		101	147	147	166	175	203	203	230	230	258	276
				PARTING LOAD (kips)										
	REGULAR COUPLING			365	401	384	408	429	475	509	537	554	616	658
	S.C. COUPLING			329	346	329	346	364	398	433	450	468	520	554

		OUTSIDE DIA. (in)	INSIDE DIA. (in)	WEIGHT (lb)	JOINT EFFICIENCY (%)	30' JOINT MUD DISPLACEMENT (in^3)
COUPLING OUTSIDE DIAMETER	W	5.01	3.943	13.35	104	1621
	Wc	4.892	3.943	10.80	83	1612
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				