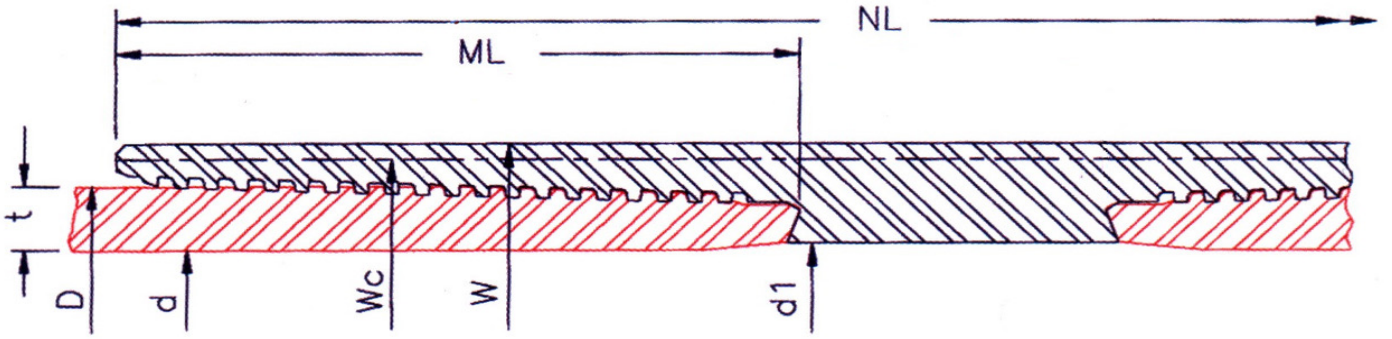
TECHNICAL INFORMATION

TUBING

SIZE:	**4 1/2" (114.30mm)**
NOMINAL WEIGHT:	**13.50 lb/ft (20.09 kg/m)**
WALL THICKNESS:	**0.290" (7.37mm)**
THREADS PER INCH:	**6**



PIPE BODY	OUTSIDE DIA. (in)	D	4.5	INSIDE DIA. (in)		d	3.92	DRIFT DIA. (in)	3.795	PLAIN END WT (lb/ft)		13.04
	GRADE			55	N80	80	90	95	C110	110	C125	125	140	150
	COLLAPSE RESISTANCE (psi)			6420	8540	8540	9300	9660	10690	10690	11600	11600	12410	12880
	INTERNAL YIELD PRESSURE (psi)			6200	9020	9020	10150	10710	12410	12410	14100	14100	15790	16920
	BODY YIELD STRENGTH (kips)			211	307	307	345	364	422	422	479	479	537	575
	ULTIMATE STRENGTH (kips)			364	384	364	384	403	441	479	499	518	575	614
	YIELD TORQUE (ft.lb)			20080	29210	29210	32860	34690	40170	40170	45640	45640	51120	54770
MAKE UP	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0													
	REGULAR (ft.lb)	MINIMUM		3330	4430	4430	5080	5080	5740	5740	6320	6320	7170	7470
		OPTIMUM		3690	4920	4920	5640	5640	6370	6370	7020	7020	7960	8300
		MAXIMUM		4050	5410	5410	6200	6200	7000	7000	7720	7720	8750	9130
	SPECIAL CLEARANCE (ft.lb)	MINIMUM		2970	3940	3940	4520	4520	5110	5110	5620	5620	6380	6640
		OPTIMUM		3330	4430	4430	5080	5080	5740	5740	6320	6320	7170	7470
		MAXIMUM		3690	4920	4920	5640	5640	6370	6370	7020	7020	7960	8300
CONNECTION	COLLAPSE RESISTANCE (psi)			6420	8540	8540	9300	9660	10690	10690	11600	11600	12410	12880
	INTERNAL YIELD PRESSURE (psi)			6200	9020	9020	10150	10710	12410	12410	14100	14100	15790	16920
	MAXIMUM LOAD OF COUPLING FACE (kips)	REGULAR		131	190	190	214	226	261	261	297	297	333	357
		S.C.		68	99	99	112	118	136	136	155	155	174	186
				PARTING LOAD (kips)										
	REGULAR COUPLING			318	349	334	355	374	413	443	467	482	536	573
	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	4.961	3.994	12.10	109	1412
	Wc	4.813	3.994	8.94	79	1401
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				