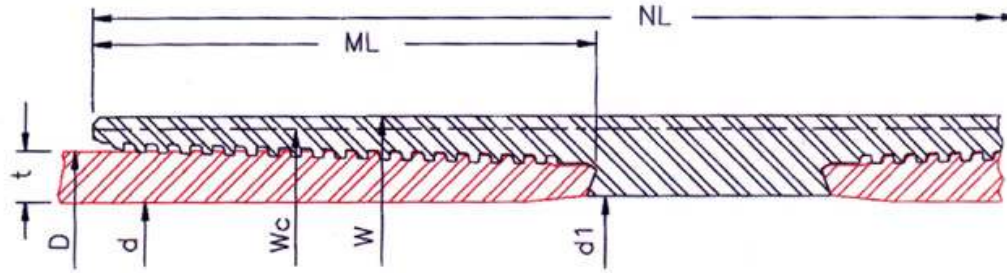


# TECHNICAL INFORMATION

# TUBING

SIZE:	4 1/2 "
NOMINAL WEIGHT:	13.50 lb/ft
WALL THICKNESS:	0.290 "
THREADS PER INCH:	6



PIPE BODY	OUTSIDE DIA.(in)D	4.500	INSIDE DIA.(in) d	3.920	DRIFT DIA. (in)			3.795	PLAIN END WT (lb/ft)		13.04
	GRADE			K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (psi)			6420	8540	8540	9300	9660	10690	11600	12880
	INTERNAL YIELD PRESSURE (psi)			6200	9020	9020	10150	10710	12410	14100	16920
	BODY YIELD STRENGTH (kips)			211	307	307	345	364	422	479	575
	ULTIMATE STRENGTH (kips)			364	384	364	384	403	479	518	614
	YIELD TORQUE (ft/lb)			20100	29200	29200	32900	34700	40200	45600	54800

MAKEUP	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
	REGULAR	MINIMUM (ft/lb)	3330	4430	4430	5080	5080	5740	6320	7470	
		OPTIMUM (ft/lb)	3690	4920	4920	5640	5640	6370	7020	8300	
		MAXIMUM (ft/lb)	4050	5410	5410	6200	6200	7000	7720	9130	
	SPECIAL CLEARANCE	MINIMUM (ft/lb)	2970	3940	3940	4520	4520	5110	5620	6640	
		OPTIMUM (ft/lb)	3330	4430	4430	5080	5080	5740	6320	7470	
		MAXIMUM (ft/lb)	3690	4920	4920	5640	5640	6370	7020	8300	

CONNECTION	COLLAPSE RESISTANCE (psi)		6420	8540	8540	9300	9660	10690	11600	12880	
	INTERNAL YIELD PRESSURE (psi)		6200	9020	9020	10150	10710	12410	14100	16920	
	MAXIMUM LOAD OF REG. COUPLING FACE (kips)		131	190	190	214	226	261	297	357	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kips)		68	99	99	112	118	136	155	186	
	PARTING LOAD (kips)										
	REGULAR COUPLING O.D.		318	349	334	355	374	443	482	573	
	SPECIAL CLEARANCE COUPLING O.D.		275	289	275	289	304	361	390	463	
			OUTSIDE DIA.(in)	INSIDE DIA.(in)	WEIGHT (lb)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (in <sup>3</sup> )		
	REGULAR COUPLING		W	4.961	3.994	12.33		109		1414	
	SPECIAL CLEARANCE COUPLING		Wc	4.813	3.994	9.17		79		1403	
	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