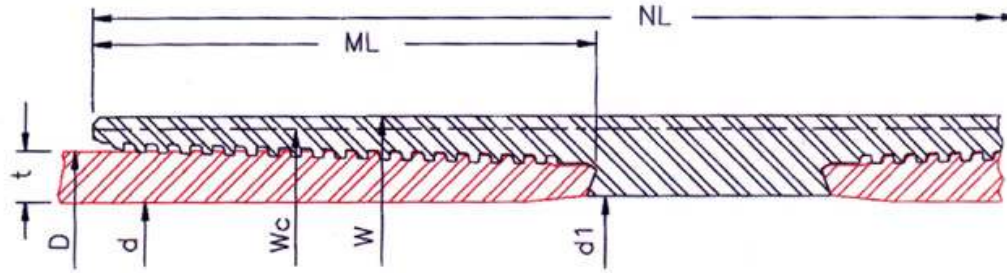


# TECHNICAL INFORMATION

# TUBING

SIZE:	4 1/2 "
NOMINAL WEIGHT:	15.10 lb/ft
WALL THICKNESS:	0.337 "
THREADS PER INCH:	6



<b>P I P E B O D Y</b>	OUTSIDE DIA.(in)D	4.500	INSIDE DIA.(in) d	3.826	DRIFT DIA. (in)			3.701	PLAIN END WT (lb/ft)		14.98
	GRADE			K55	N80	L80	C90	C95	P110	Q125	150
	COLLAPSE RESISTANCE (psi)			7620	11080	11080	12220	12760	14340	15830	18100
	INTERNAL YIELD PRESSURE (psi)			7210	10480	10480	11800	12450	14420	16380	19660
	BODY YIELD STRENGTH (kips)			242	353	353	397	419	485	551	661
	ULTIMATE STRENGTH (kips)			419	441	419	441	463	551	595	705
	YIELD TORQUE (ft/lb)			22600	32900	32900	37000	39000	45200	51400	61700

<b>M A K E U P</b>	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0										
	REGULAR	MINIMUM (ft/lb)	3780	5220	5220	5990	5990	6840	7470	8780	
		OPTIMUM (ft/lb)	4200	5790	5790	6650	6650	7590	8300	9750	
		MAXIMUM (ft/lb)	4620	6360	6360	7310	7310	8340	9130	10720	
	SPECIAL CLEARANCE	MINIMUM (ft/lb)	3360	4650	4650	5330	5330	6090	6640	7810	
		OPTIMUM (ft/lb)	3780	5220	5220	5990	5990	6840	7470	8780	
		MAXIMUM (ft/lb)	4200	5790	5790	6650	6650	7590	8300	9750	

<b>C O N N E C T I O N</b>	COLLAPSE RESISTANCE (psi)		7620	11080	11080	12220	12760	14340	15830	18100	
	INTERNAL YIELD PRESSURE (psi)		7210	10480	10480	11800	12450	14420	16380	19660	
	MAXIMUM LOAD OF REG. COUPLING FACE (kips)		152	221	221	248	262	304	345	414	
	MAXIMUM LOAD OF S.C. COUPLING FACE (kips)		101	147	147	166	175	203	230	276	
	PARTING LOAD (kips)										
	REGULAR COUPLING O.D.		365	401	384	408	429	509	554	658	
	SPECIAL CLEARANCE COUPLING O.D.		329	346	329	346	364	433	468	554	
			OUTSIDE DIA.(in)	INSIDE DIA.(in)	WEIGHT (lb)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (in <sup>3</sup> )		
	REGULAR COUPLING		W	5.010	3.943	13.58		104		1623	
	SPECIAL CLEARANCE COUPLING		Wc	4.892	3.943	11.02		83		1614	
	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