



PENTA COMPLETIONS

"COMPLETE ROD PUMPING OPTIMIZATION, DESIGN & SERVICES"

MAXIMUM PULL LOAD CAPACITY API SUCKER RODS

(For Use on Stuck Pumps)
(All Load Values in Pounds)

Rod Size		TYPE C Minimum Yield <u>65,000 PSI</u>		TYPE D Minimum Yield <u>100,000 PSI</u>		TYPE HIGH STRENGTH Minimum Yield <u>110,000 PSI</u>	
		Lbs.	daN	Lbs.	daN	Lbs.	daN
In.	mm.						
5/8"	15.875	17,000	7,560	24,600	10,900	-	-
3/4"	19.05	24,000	10,800	35,400	15,800	44,700	19,900
7/8"	22.225	33,200	14,760	48,000	21,350	62,700	27,900
1.0"	25.4	43,400	19,300	62,800	27,900	82,000	36,500
1 1/8"	28.58	-	-	80,500	35,800	102,800	45,700

1b X .448 = dan

1 dan = 2248 #

Special Notes:

A) The above table gives the maximum pull load that may be applied to the smallest rod in a sucker rod string. This assumes a steady slow pull with no jerk or pull that runs into the load.

B) CAUTION: These load figures are based on the capacity of new steel. Sucker rods that have been in service for a long period of time may break under these loads.

C) For old rods or rods which have seen heavy loads during their life cycle, then the pull loads should be de-rated to 70% of above load values.

D) If two or more different grades are combined in the rod string, then pull to the lesser value.