

Common Sucker Rod Specifications

IMPERIAL MEASUREMENTS

API SUCKER ROD MAXIMUM PULL LOAD CHART

This table gives the maximum pull load that may be applied to the smallest rod in a sucker rod string. Chart values assure a steady slow pull with no jerk or pull that runs into the load.
(For use on stuck pumps - All loads given in kN - kiloNewton)

Rod Size	Grade C min yield	Grade K min yield	Grade D (Carbon) min yield	Grade D (Alloy) min yield
Inches	60,000 psi	60,000 psi	85,000 psi	105,100 psi
5/8	18,410	18,410	26,075	32,215
3/4	26,510	26,510	37,550	46,390
7/8	36,080	36,080	51,110	63,140
1	47,125	47,125	66,755	82,470
1-1/8	59,645	59,645	84,490	104,375

Caution: Load figures are based on the capacity of new steel. Sucker rods that have been in service for an extended period may break under quoted loads. Courtesy American Petroleum Institute.

ROD AND COUPLING DIMENSIONS*

COUPLINGS

Rod Size Inches	SUCKER RODS AND PONIES (in)			Nominal Size (in)	Outside Dia. + .005" or .010"	Minimum Tubing O.D.
	Width of Wrench Flat ±1/32	Length of Rod ±2"	Length of Pony Rod ±2"			
5/8	7/8			5/8	1-1/2	2-1/16
3/4	1	296, 356	20, 44	3/4	1-5/8	2-3/8
7/8	1		68, 92	7/8 SH*	1-5/8	2-3/8
1	1-5/16		116	7/8	1-13/16	2-7/8
1-1/8	1-1/2			1 SH*	2	2-7/8
*API SPEC. 11B				1	2-3/16	3-1/2
				1-1/8	2-3/8	3-1/2
				*SH - slimhole		

IDENTIFICATION AND MECHANICAL SPECIFICATIONS

Manufacturer	Type	Wrench Flat Marking	Yield Strength psi*	Tensile Strength psi*
API GRADE C				
Weatherford	S-60	S-60	90/105	100/115
Norris	30	WCN 30	70/80	95/105
Weatherford	C11	EVIOT C	60/75	90/115
Upco	35	UPCO 35C	60 min	90/115
API GRADE K				
Weatherford	S-59	S-59	90/105	100/115
Norris	40	WCN 40	70/80	90/100
Weatherford	K65	EVIOT K	60 min	90/100
Upco	45	UPCO K45	60 min	90/115
API GRADE D (Carbon Steel)				
Weatherford	S-67	S-67	110/125	120/135
Norris	54	54D	90/110	120/140
Weatherford	D56	EVIOT MD56	85/110	115/140
Upco	75	UPCO D75	85 min	115/140
API GRADE D (Chrome Moly)				
Norris	78	WCN 78D	95/110	120/140
Upco	75	UPCO 75A	85 min	115/140
Weatherford	D	EVIOT D	85 min	115/140
API GRADE D (Special Alloy)				
Weatherford	S-87	S-87	115/130	125/140
Norris	75	WCN 75D	105/115	120/140
Weatherford	KD	EVIOT KD63	85 min	115/140
SPECIAL SERVICE				
Weatherford	S-88	S-88	130/145	140/155
Norris	97	WCN 97D	110/120	140/150
Weatherford	XD66	TRICO XD66	115 min	140/150
Weatherford	EL	EL	-	-
Upco	50	UPCO 50	105/125	140/160