

FICHA TÉCNICA TABLA DE TORQUE



A-325 - A-490

ASTM A325

Bolt Size	TPI	Tension		Tightening Torque Range (ft lbs) (Min - Max)	
		Min	Max	Galv+Waxed	Plain
1/2	13	12,000	14,000	50 - 58	100 - 117
5/8	11	19,000	23,000	99 - 120	198 - 240
3/4	10	28,000	34,000	175 - 213	350 - 425
7/8	9	39,000	47,000	284 - 343	569 - 685
1	8	51,000	61,000	425 - 508	850 - 1,017
1 1/8	7	56,000	67,000	525 - 625	1,050 - 1,256
1 1/4	7	71,000	85,000	740 - 885	1,479 - 1,771
1 3/8	6	85,000	102,000	974 - 1,169	1,948 - 2,338
1 1/2	6	103,000	124,000	1,288 - 1,550	2,575 - 3,100

ASTM A490

Bolt Size	TPI	Tension (lbs)		Tightening Torque Range (ft lbs) (Min - Max)	
		Min	Max	Lubricated	Plain
1/2	13	15,000	18,000	63 - 75	125 - 150
5/8	11	24,000	29,000	125 - 151	250 - 302
3/4	10	35,000	42,000	219 - 263	438 - 525
7/8	9	49,000	59,000	357 - 430	715 - 860
1	8	64,000	77,000	533 - 642	1,067 - 1,283
1 1/8	7	80,000	96,000	750 - 900	1,500 - 1,800
1 1/4	7	102,000	122,000	1,063 - 1,271	2,125 - 2,542
1 3/8	6	121,000	145,000	1,386 - 1,661	2,773 - 3,323
1 1/2	6	148,000	178,000	1,850 - 2,225	3,700 - 4,450