

# Torque de Apriete para Uniones Roscadas

## Rosca Milimétrica

Diámetro Nominal		Sección Resistente	Carga en el límite elástico 0.2% (Kg.)				Fuerza de Pretensado 70/75% de carga en límite elástico (Kg.)				Torque de Apriete (Kgm.)			
Diámetro	Paso	mm <sup>2</sup>	5.6	8.8	10.9	12.9	5.6	8.8	10.9	12.9	5.6	8.8	10.9	12.9
12	1.75	84.3	2,530	5,400	7,600	9,100	1,900	3,830	5,400	6,450	4	9	12	15
14	2	115	3,450	7,350	10,350	12,400	2,600	5,250	7,400	8,850	7	14	19	23
16	2	157	4,710	10,000	14,100	17,000	3,550	7,300	10,200	12,300	11	21	30	36
18	2.5	192	5,760	12,300	17,300	20,700	4,320	8,800	12,400	14,800	15	29	41	49
20	2.5	245	7,350	15,700	22,000	26,500	5,500	11,400	16,000	19,200	20	41	58	69
22	2.5	303	9,090	19,400	27,300	32,700	6,800	14,100	19,900	23,900	27	55	78	93
24	3	353	10,590	22,600	31,800	36,100	7,900	16,400	23,000	27,600	35	70	100	120
27	3	459	13,770	29,400	41,300	49,600	10,300	21,500	30,200	36,300	50	105	150	180
30	3.5	651	16,830	35,900	50,500	60,600	12,600	26,200	36,800	44,200	68	145	200	240
33	3.5	694	20,820	44,400	62,500	75,000	15,620	33,300	46,800	56,200	94	200	280	340
36	4	817	24,510	52,300	73,500	88,200	18,380	39,200	55,100	66,200	120	260	360	430
39	4	976	29,280	62,500	87,800	105,400	21,960	46,800	65,900	79,100	160	330	470	560
42	4.5	1,117	33,510	71,500	100,500	120,600	25,130	53,600	75,400	90,500	190	410	580	690
45	4.5	1,302	39,060	83,300	117,200	140,600	29,300	62,500	87,900	105,500	240	510	720	860
48	5	1,469	44,070	94,000	132,200	158,700	33,100	70,500	99,200	119,000	290	620	870	1,040

## Rosca en Pulgadas

Diámetro Nominal		Sección Resistente	Carga en el límite elástico 0.2% (Kg.)				Fuerza de Pretensado 70/75% de carga en límite elástico (Kg.)				Torque de Apriete (Kgm.)			
Diámetro	Paso	mm <sup>2</sup>	B7M - L7M	A 325 - Gr. 5	B7 - B16 - L7	A490 - Gr. 8	B7M - L7M	A 325 - Gr. 5	B7 - B16 - L7	A490 - Gr. 8	B7M - L7M	A 325 - Gr. 5	B7 - B16 - L7	A490 - Gr. 8
1/2"	13 UNC	91.5	5,120	5,920	6,720	8,370	3,840	4,440	5,040	6,280	8	10	11	14
9/16"	12 UNC	117	6,550	7,570	8,590	10,710	4,910	5,680	6,440	8,030	12	14	16	20
5/8"	11 UNC	146	8,180	9,540	10,720	13,360	6,130	7,090	8,040	10,020	17	19	22	27
3/4"	10 UNC	215	12,040	13,910	15,780	19,670	9,030	10,430	11,840	14,750	29	34	38	48
7/8"	9 UNC	298	16,700	19,280	21,900	27,300	12,520	14,460	16,400	20,450	47	55	62	77
1"	8 UNC	391	21,900	25,300	28,700	35,800	16,420	18,970	21,520	26,800	71	82	93	120
1 1/8"	8 UN	510	28,560	29,100	37,400	46,700	21,420	21,800	28,100	35,000	98	100	130	160
1 1/4"	8 UN	645	36,120	36,800	47,300	59,000	27,100	27,600	35,500	44,300	140	140	180	230
1 3/8"	8 UN	795	44,520	45,300	58,400	72,700	33,400	34,000	43,800	54,600	190	190	240	300
1 1/2"	8 UN	962	53,870	54,830	70,600	88,000	40,400	41,100	53,000	66,000	250	250	320	400
1 5/8"	8 UN	1,145	64,120	65,270	84,000	104,800	48,090	48,900	63,000	78,600	320	320	420	520
1 3/4"	8 UN	1,343	75,210	76,600	98,600	122,900	56,400	57,400	73,900	92,200	400	450	530	660
1 7/8"	8 UN	1,557	87,190	88,700	114,300	142,500	65,400	66,600	85,700	160,800	500	510	650	810
2"	8 UN	1,788	100,130	101,900	131,200	163,600	75,100	76,400	98,400	122,700	610	620	800	1,000