



BULON EXAG. GRADO 2 UNC ZINCADO

HOJA 1A

DIAMETRO		3/16"	1/4"	5/16"	3/8"	7/16"	1/2" BSW	9/16"	5/8"	3/4"	7/8"	1"
Hilos por pulgada		24 - Nº10	20 - UNC	18 - UNC	16 - UNC	14 - UNC	12 - BSW	12 - UNC	11 - UNC	10 - UNC	9 - UNC	8 - UNC
Cabeza	Llave	5/16"	7/16"	1/2"	9/16"	5/8"	3/4"	13/16"	15/16"	1.1/8"	1.5/16"	1.1/2"
	Altura	3,05	4,14	5,36	6,17	7,39	8,20	9,42	10,24	12,27	14,30	15,93
1/2"		22,682 101.5.12 500 6.000	30,124 101.6.12 500 4.000	49,758 101.8.12 500 3.000	75,130 101.9.12 200 1.600							
5/8"		24,655 101.5.16 500 6.000	34,696 101.6.16 500 4.000	55,585 101.8.16 500 2.500	83,916 101.9.16 200 1.600							
3/4"		28,331 101.5.19 500 6.000	38,103 101.6.19 500 4.000	60,695 101.8.19 200 2.400	92,612 101.9.19 200 1.600		194,10 101.12.19 200 800					
7/8"		32,186 101.5.22 500 6.000	40,523 101.6.22 500 4.000	66,523 101.8.22 200 2.400	88,040 1.9.22 #N/A 1.600							
1"		56,840 101.5.50 200 2.400	43,930 101.6.25 500 3.000	72,261 101.8.25 200 1.600	107,05 101.9.25 200 1.200	150,44 101.11.25 200 800	219,83 101.12.25 100 800	289,22 101.14.25 100 600	387,57 101.16.25 100 400			
1.1/4"		39,806 101.5.32 500 4.000	49,220 101.6.32 200 2.400	83,826 101.8.32 200 1.600	124,35 101.9.32 200 1.200	170,61 101.11.32 200 800	242,87 101.12.32 100 500	318,18 101.14.32 100 400	439,66 101.16.32 100 400	682,53 101.19.32 50 200		
1.1/2"		47,337 101.5.38 500 4.000	57,827 101.6.38 200 1.600	92,612 101.8.38 200 1.600	138,78 101.9.38 200 1.000	190,87 101.11.38 100 600	271,92 101.12.38 100 500	358,70 101.14.38 100 400	480,18 101.16.38 50 300	763,58 101.19.38 50 200		
1.3/4"		52,089 101.5.44 200 2.400	63,654 101.6.44 200 1.600	104,18 101.8.44 200 1.200	156,18 101.9.44 200 800	214,00 101.11.44 100 600	300,79 101.12.44 100 500	393,31 101.14.44 50 300	509,05 101.16.44 50 250	821,41 101.19.44 50 200		
2"		56,840 101.5.50 200 2.400	72,261 101.6.50 200 1.600	115,65 101.8.50 200 1.200	170,61 101.9.50 200 800	237,1 101.11.50 100 400	323,92 101.12.50 100 400	428,10 101.14.50 50 300	578,53 101.16.50 50 250	867,67 101.19.50 20 160	1.301,3 101.22.50 20 120	1.793,2 101.25.50 20 80
2.1/4"			89,385 101.6.56 200 1.200	145,96 101.8.56 200 800	214,5 101.9.56 100 600	279,99 101.11.56 100 600	393,22 101.12.56 50 300	494,44 101.14.56 50 300	667,29 101.16.56 50 200	1.012,9 101.19.56 20 120	1.459,6 101.22.56 20 80	
2.1/2"			98,260 101.6.63 200 1.200	160,84 101.8.63 100 800	232,4 101.9.63 100 600	309,84 101.11.63 100 400	428,90 101.12.63 50 300	548,23 101.14.63 50 200	714,99 101.16.63 50 200	1.102,3 101.19.63 20 120	1.549,0 101.22.63 20 80	2.159,8 101.25.63 20 80
2.3/4"			107,23 101.6.70 100 800	172,76 101.8.70 100 600	250,2 101.9.70 100 400	345,61 101.11.70 100 400	464,67 101.12.70 50 300	607,7 101.14.70 50 200	786,44 101.16.70 50 200	1.161,8 101.19.70 20 120	1.638,3 101.22.70 20 80	2.264,1 101.25.70 20 80
3"			119,15 101.6.76 100 800	189,98 101.8.76 100 600	274,1 101.9.76 100 400	369,4 101.11.76 100 400	500,45 101.12.76 50 200	655,46 101.14.76 50 200	804,28 101.16.76 20 160	1.251,2 101.19.76 20 120	1.757,5 101.22.76 20 80	2.383,2 101.25.76 10 60
3.1/4"			125,07 101.6.82 100 600	214,45 101.8.82 100 400	297,8 101.9.82 100 400	393,22 101.11.82 50 300	548,05 101.12.82 50 200	714,99 101.14.82 50 200	863,90 101.16.82 20 160	1.340,5 101.19.82 20 80	1.876,6 101.22.82 20 80	2.621,6 101.25.82 10 60
3.1/2"			131,07 101.6.90 100 600	214,5 101.8.90 100 400	309,8 101.9.90 100 400	417,07 101.11.90 50 300	571,9 101.12.90 50 200	738,83 101.14.90 50 200	953,29 101.16.90 20 160	1.429,9 101.19.90 20 80	2.025,5 101.22.90 20 80	2.734,5 101.25.90 10 40
4"			149,00 101.6.100 100 600	244,2 101.8.100 100 400	351,44 101.9.100 100 400	476,60 101.11.100 50 300	655,28 101.12.100 50 200	834,14 101.14.100 50 200	1.042,7 101.16.100 20 120	1.578,9 101.19.100 20 80	2.204,3 101.22.100 20 80	2.979,0 101.25.100 10 40
4.1/2"				274,1 101.8.110 100 400	381,3 101.9.110 50 400	536,22 101.11.110 50 200	726,91 101.12.110 50 200	929,44 101.14.110 50 200	1.161,8 101.16.110 20 120	1.757,7 101.19.110 20 80	2.383,0 101.22.110 10 60	3.217,4 101.25.110 10 40
5"				297,8 101.8.125 100 400	428,90 101.9.125 50 300	583,8 101.11.125 50 200	798,27 101.12.125 50 200	1.024,8 101.14.125 25 150	1.281,1 101.16.125 20 120	1.906,6 101.19.125 20 80	2.680,8 101.22.125 10 60	3.574,8 101.25.125 10 40
5.1/2"				321,68 101.8.140 100 400	476,60 101.9.140 50 300	643,4 101.11.140 50 200	881,74 101.12.140 50 200	1.096,3 101.14.140 25 150	1.400,1 101.16.140 20 120	2.085,3 101.19.140 20 80	2.919,2 101.22.140 10 60	3.813,2 101.25.140 10 40
6"				351,44 101.8.155 100 400	512,28 101.9.155 50 200	691,05 101.11.155 50 200	953,20 101.12.155 50 200	1.215,4 101.14.155 25 100	1.489,5 101.16.155 20 120	2.264,1 101.19.155 20 80	3.157,5 101.22.155 10 40	4.170,7 101.25.155 10 40
7"							1.096,2 101.12.175 25 100		1.727,9 101.16.175 20 80	2.561,9 101.19.175 10 60	3.574,6 101.22.175 10 40	4.766,5 101.25.175 10 40
8"							1.239,2 101.12.200 25 100		1.936,3 101.16.200 20 80	2.919,4 101.19.200 10 40	3.991,6 101.22.200 10 40	5.362,4 101.25.200 10 20
9"									2.145,0 101.16.225 20 80	3.143,0 101.19.225 10 40	4.501,5 101.22.225 10 40	5.958,1 101.25.225 10 20
10"									2.418,9 101.16.250 20 60	3.560,6 101.19.250 10 40	4.938,7 101.22.250 10 30	6.453,3 101.25.250 10 20


BULON C. REDONDA C/CUADRADO GRADO 2 UNC ZINCADO
HOJA 1B

DIÁMETRO Hilos por pulgada	3/16" 24 - Nº10	1/4" 20 - UNC	5/16" 18 - UNC	3/8" 16 - UNC	7/16" 14 - UNC	1/2" BSW 12 - BSW	5/8" 11 - UNC
3/4"	33,627 102.5.19 500 4.000	42,196 102.6.19 500 3.000	68,558 102.8.19 200 1.200				
1"	38,005 102.5.25 500 4.000	43,966 102.6.25 500 2.000	87,280 102.8.25 200 1.200	114,20 102.9.25 100 800			
1.1/4"	44,898 102.5.32 500 4.000	53,654 102.6.32 500 2.000	86,815 102.8.32 200 1.200	137,02 102.9.32 100 800	197,48 102.11.32 100 400	255,04 102.12.32 50 400	
1.1/2"	51,418 102.5.38 500 3.000	66,881 102.6.38 200 1.600	97,620 102.8.38 200 800	154,16 102.9.38 100 600	223,74 102.11.38 100 400	291,65 102.12.38 50 400	
1.3/4"	55,144 102.5.44 500 2.000	65,670 102.6.44 200 1.600	111,31 102.8.44 200 800	173,54 102.9.44 100 600		318,57 102.12.44 50 300	
2"	67,253 102.5.50 500 2.000	74,240 102.6.50 200 1.200	122,77 102.8.50 200 800	194,12 102.9.50 100 600	266,59 102.11.50 100 400	341,39 102.12.50 50 300	576,59 102.16.50 20 120
2.1/4"		80,481 102.6.56 200 1.200	131,34 102.8.56 200 800	191,23 102.9.56 100 600		383,59 102.12.56 50 300	620,65 102.16.56 20 120
2.1/2"		85,604 102.6.63 200 800	145,59 102.8.63 200 800	216,94 102.9.63 100 400	307,76 102.11.63 50 300	409,95 102.12.63 50 300	685,11 102.16.63 20 120
2.3/4"		93,615 102.6.70 200 800	154,16 102.8.70 100 600	227,75 102.9.70 100 400		432,77 102.12.70 50 250	736,53 102.16.70 20 120
3"		97,061 102.6.76 200 800	165,62 102.8.76 100 600	245,54 102.9.76 100 400	348,94 102.11.76 50 300	455,59 102.12.76 50 200	782,17 102.16.76 20 120
3.1/4"		104,0 102.6.82 200 800	176,98 102.8.82 100 400	266,13 102.9.82 100 400		455,59 102.12.82 50 200	830,70 102.16.82 20 120
3.1/2"		111,96 102.6.90 100 600	182,66 102.8.90 100 400	274,04 102.9.90 100 400	384,80 102.11.90 50 200	524,06 102.12.90 50 200	839,27 102.16.90 20 120
4"		125,56 102.6.100 100 600	205,58 102.8.100 100 400	307,11 102.9.100 50 300	436,22 102.11.100 50 200	588,61 102.12.100 50 200	942,11 102.16.100 20 120
4.1/2"		137,02 102.6.110 100 600	228,40 102.8.110 100 400	337,94 102.9.110 50 250	480,74 102.11.110 50 200	626,89 102.12.110 25 150	1.033 102.16.110 20 80
5"		151,3 102.6.125 100 400	251,22 102.8.125 100 400	371,57 102.9.125 50 250	513,34 102.11.125 50 200	685,02 102.12.125 25 150	1.125 102.16.125 20 80
5.1/2"			270,04 102.8.140 100 400	397,28 102.9.140 50 250	577,24 102.11.140 50 200	746,77 102.12.140 25 150	1.217 102.16.140 20 80
6"			291,18 102.8.155 100 400	432,77 102.9.155 50 250	622,89 102.11.155 50 200	806,11 102.12.155 25 150	1.308 102.16.155 20 80
7"			342,23 102.8.175 50 300	514,27 102.9.175 50 200	712,78 102.11.175 50 200	912,39 102.12.175 25 100	1.467 102.16.175 40 10
8"			390,20 102.8.200 50 200	574,26 102.9.200 50 200	812,91 102.11.200 25 100	1.028 102.12.200 25 100	1.696 102.16.200 10 40
9"			459,69 102.8.225 50 200	684,55 102.9.225 25 100		1.134 102.12.225 25 100	1.845 102.16.225 10 40
10"			511,20 102.8.250 50 100	753,57 102.9.250 50 200		1.253 102.12.250 20 80	2.028 102.16.250 20 60
11"				1.496 102.9.275 50 150		2.727 102.12.275 20 80	4.420 102.16.275 20 60
12"				1.610 102.9.300 50 100		2.955 102.12.300 50 25	4.765 102.16.300 25 50



BULON EXAGONAL GRADO 2 UNC PULIDO

DIAMETRO	3/16"	1/4"	5/16"	3/8"	7/16"	1/2" BSW	9/16"	5/8"	3/4"	7/8"	1"	
Hilos por pulgada	24 - Nº10	20 - UNC	18 - UNC	16 - UNC	14 - UNC	12 - BSW	12 - UNC	11 - UNC	10 - UNC	9 - UNC	8 - UNC	
Cabeza	Llave	5/16"	7/16"	1/2"	9/16"	5/8"	3/4"	13/16"	15/16"	1.1/8"	1.5/16"	1.1/2"
	Altura	3,05	4,14	5,36	6,17	7,39	8,20	9,42	10,24	12,27	14,30	15,93
1/2"	19,724 1.5.12 500 6.000	26,179 1.6.12 500 4.000	43,303 1.8.12 500 3.000	65,357 1.9.12 200 1.600								
5/8"	21,427 1.5.16 500 6.000	30,213 1.6.16 500 4.000	48,323 1.8.16 500 2.500	72,978 1.9.16 200 1.600								
3/4"	24,655 1.5.19 500 6.000	33,172 1.6.19 500 4.000	52,806 1.8.19 200 2.400	80,509 1.9.19 200 1.600		168,82 1.12.19 200 800						
7/8"	27,972 1.5.22 500 6.000	35,234 1.6.22 500 4.000	57,827 1.8.22 200 2.400	88,040 1.9.22 200 1.600								
1"	29,675 1.5.25 500 4.000	38,192 1.6.25 500 3.000	62,847 1.8.25 200 1.600	93,060 1.9.25 200 1.200	130,80 1.11.25 200 800	191,14 1.12.25 100 800	251,48 1.14.25 100 600	337,0 1.16.25 100 400				
1.1/4"	34,606 1.5.32 500 4.000	42,765 1.6.32 200 2.400	72,888 1.8.32 200 1.600	108,12 1.9.32 200 1.200	148,38 1.11.32 800 200	211,22 1.12.32 100 500	276,67 1.14.32 100 400	382,28 1.16.32 100 400	593,51 1.19.32 50 200			
1.1/2"	41,151 1.5.38 500 4.000	50,296 1.6.38 200 1.600	80,509 1.8.38 200 1.600	120,67 1.9.38 200 1.000	165,95 1.11.38 100 600	236,42 1.12.38 100 500	311,90 1.14.38 100 400	417,52 1.16.38 50 300	663,97 1.19.38 50 200			
1.3/4"	45,275 1.5.44 200 2.400	55,316 1.6.44 200 1.600	90,550 1.8.44 200 1.200	135,83 1.9.44 200 800	186,12 1.11.44 100 600	261,52 1.12.44 100 500	342,0 1.14.44 50 300	442,62 1.16.44 50 250	714,27 1.19.44 50 200			
2"	49,399 1.5.50 200 2.400	62,847 1.6.50 200 1.600	100,59 1.8.50 200 1.200	148,38 1.9.50 200 800	206,20 1.11.50 100 400	281,69 1.12.50 100 400	372,24 1.14.50 50 300	503,05 1.16.50 50 250	754,52 1.19.50 20 160	1.131,6 1.22.50 20 120	1.559,3 1.25.50 20 80	
2.1/4"		77,730 1.6.56 200 1.200	126,95 1.8.56 200 800	186,48 1.9.56 100 600	243,50 1.11.56 100 600	341,9 1.12.56 50 300	429,98 1.14.56 50 300	580,24 1.16.56 50 200	880,76 1.19.56 20 120	1.269,2 1.22.56 20 80		
2.1/2"		85,440 1.6.63 200 1.200	139,86 1.8.63 100 800	202,08 1.9.63 100 600	269,41 1.11.63 100 400	372,96 1.12.63 50 300	476,69 1.14.63 50 200	621,75 1.16.63 50 200	958,49 1.19.63 20 120	1.347,0 1.22.63 20 80	1.878,1 1.25.63 20 80	
2.3/4"		93,240 1.6.70 100 800	150,26 1.8.70 100 600	217,59 1.9.70 100 400	300,52 1.11.70 100 400	404,07 1.12.70 50 300	528,42 1.14.70 50 200	683,88 1.16.70 50 200	1.010,3 1.19.70 20 120	1.424,6 1.22.70 20 80	1.968,8 1.25.70 20 80	
3"		103,64 1.6.76 100 800	165,23 1.8.76 100 600	238,3 1.9.76 100 400	321,2 1.11.76 100 400	435,18 1.12.76 50 200	569,93 1.14.76 50 200	699,39 1.16.76 20 160	1.088,0 1.19.76 20 120	1.528,2 1.22.76 20 80	2.072,3 1.25.76 10 60	
3.1/4"		108,75 1.6.82 100 600	186,48 1.8.82 100 400	259,0 1.9.82 100 400	341,94 1.11.82 50 300	476,60 1.12.82 50 200	621,75 1.14.82 50 200	751,21 1.16.82 20 160	1.165,7 1.19.82 20 80	1.631,9 1.22.82 20 80	2.279,6 1.25.82 10 60	
3.1/2"		113,95 1.6.90 100 600	186,48 1.8.90 100 400	269,4 1.9.90 100 400	362,65 1.11.90 50 300	497,31 1.12.90 50 200	642,46 1.14.90 50 200	828,94 1.16.90 20 160	1.243,4 1.19.90 20 80	1.761,3 1.22.90 20 80	2.377,9 1.25.90 10 40	
4"		129,55 1.6.100 100 600	212,4 1.8.100 100 400	305,63 1.9.100 100 400	414,47 1.11.100 50 300	569,84 1.12.100 50 200	725,30 1.14.100 50 200	906,67 1.16.100 20 120	1.373,0 1.19.100 20 80	1.916,8 1.22.100 20 80	2.590,4 1.25.100 10 40	
4.1/2"			238,3 1.8.110 100 400	331,54 1.9.110 50 400	466,29 1.11.110 50 200	632,06 1.12.110 50 200	808,23 1.14.110 50 200	1.010,3 1.16.110 20 120	1.528,4 1.19.110 20 80	2.072,2 1.22.110 10 60	2.797,7 1.25.110 10 40	
5"			259,0 1.8.125 100 400	372,96 1.9.125 50 300	507,71 1.11.125 50 200	694,19 1.12.125 50 200	891,16 1.14.125 25 150	1.113,9 1.16.125 20 120	1.657,9 1.19.125 20 80	2.331,2 1.22.125 10 60	3.108,6 1.25.125 10 40	
5.1/2"			279,72 1.8.140 100 400	414,47 1.9.140 50 300	559,53 1.11.140 50 200	766,72 1.12.140 50 200	953,29 1.14.140 25 150	1.217,5 1.16.140 20 120	1.813,3 1.19.140 20 80	2.538,4 1.22.140 10 60	3.315,8 1.25.140 10 40	
6"			305,63 1.8.155 100 400	445,49 1.9.155 50 200	600,95 1.11.155 50 200	828,85 1.12.155 50 200	1.056,9 1.14.155 25 100	1.295,2 1.16.155 20 120	1.968,8 1.19.155 20 80	2.745,6 1.22.155 10 40	3.626,7 1.25.155 10 40	
7"						953,20 1.12.175 25 100		1.373,0 1.16.175 20 80	2.227,8 1.19.175 10 60	3.108,3 1.22.175 10 40	4.144,8 1.25.175 10 40	
8"						1.077,5 1.12.200 25 100		1.502,5 1.16.200 20 80	2.538,6 1.19.200 10 40	3.470,9 1.22.200 10 40	4.662,9 1.25.200 5 20	
9"								1.683,8 1.16.225 20 80	2.733,0 1.19.225 10 40	3.914,4 1.22.225 10 40	5.181,0 1.25.225 5 20	
10"								1.865,2 1.16.250 20 60	3.096,2 1.19.250 10 40	4.294,6 1.22.250 10 30	5.611,5 1.25.250 5 20	


BULON C. REDONDA C/CUADRADO GRADO 2 UNC PULIDO

DIÁMETRO Hilos por pulgada	3/16" 24 - Nº10	1/4" 20 - UNC	5/16" 18 - UNC	3/8" 16 - UNC	7/16" 14 - UNC	1/2" BSW 12 - BSW	5/8" 11 - UNC
3/4"	31,298 2.5.19 500 4.000	39,309 2.6.19 500 3.000	63,714 2.8.19 200 1.200				
1"	33,068 2.5.25 500 4.000	38,191 2.6.25 500 2.000	75,916 2.8.25 200 1.200	99,297 2.9.25 100 800			
1.1/4"	39,029 2.5.32 500 4.000	46,668 2.6.32 500 2.000	75,451 2.8.32 200 1.200	119,14 2.9.32 100 800			
1.1/2"	44,711 2.5.38 500 3.000	58,125 2.6.38 200 1.600	84,859 2.8.38 200 800	134,04 2.9.38 100 600	194,59 2.11.38 100 400	253,64 2.12.38 50 400	
1.3/4"	47,972 2.5.44 500 2.000	57,100 2.6.44 200 1.600	96,782 2.8.44 200 800	150,90 2.9.44 100 600		277,02 2.12.44 50 300	
2"	58,497 2.5.50 500 2.000	64,552 2.6.50 200 1.200	106,75 2.8.50 200 800	168,79 2.9.50 100 600	231,85 2.11.50 100 400	296,87 2.12.50 50 300	501,42 2.16.50 20 120
2.1/4"		69,955 2.6.56 200 1.200	114,20 2.8.56 200 800	166,27 2.9.56 100 600		333,57 2.12.56 50 300	539,70 2.16.56 20 120
2.1/2"		74,426 2.6.63 200 800	126,59 2.8.63 200 800	188,63 2.9.63 100 400	267,62 2.11.63 50 300	356,48 2.12.63 50 300	595,78 2.16.63 20 120
2.3/4"		81,412 2.6.70 200 800	134,04 2.8.70 100 600	198,03 2.9.70 100 400		376,32 2.12.70 50 250	640,49 2.16.70 20 120
3"		84,393 2.6.76 200 800	144,01 2.8.76 100 600	213,50 2.9.76 100 400	303,39 2.11.76 50 300	396,16 2.12.76 50 200	680,17 2.16.76 20 120
3.1/4"		90,354 2.6.82 200 800	153,88 2.8.82 100 400	231,38 2.9.82 100 400		396,16 2.12.82 50 200	722,37 2.16.82 20 120
3.1/2"		97,341 2.6.90 100 600	158,82 2.8.90 100 400	238,27 2.9.90 100 400	334,59 2.11.90 50 200	455,68 2.12.90 50 200	729,82 2.16.90 20 120
4"		109,17 2.6.100 100 600	178,75 2.8.100 100 400	267,06 2.9.100 50 300	379,30 2.11.100 50 200	511,85 2.12.100 50 200	819,24 2.16.100 20 120
4.1/2"		119,14 2.6.110 100 600	198,59 2.8.110 100 400	293,9 2.9.110 50 250	418,05 2.11.110 50 200	545,11 2.12.110 25 150	898,61 2.16.110 20 80
5"		131,53 2.6.125 100 400	218,43 2.8.125 100 400	323,13 2.9.125 50 250	446,37 2.11.125 50 200	595,69 2.12.125 25 150	978,06 2.16.125 20 80
5.1/2"			234,83 2.8.140 100 400	345,49 2.9.140 50 250	501,98 2.11.140 50 200	649,34 2.12.140 25 150	1.059 2.16.140 20 80
6"			253,18 2.8.155 100 400	376,32 2.9.155 50 250	541,66 2.11.155 50 200	700,95 2.12.155 25 150	1.137 2.16.155 20 80
7"			297,61 2.8.175 50 300	447,21 2.9.175 50 200		793,35 2.12.175 25 100	1.276 2.16.175 10 40
8"			339,34 2.8.200 50 200	499,37 2.9.200 50 200		893,58 2.12.200 25 100	1.475 2.16.200 10 40
9"			399,70 2.8.225 50 200	595,22 2.9.225 25 100		985,89 2.12.225 25 100	1.604 2.16.225 10 40
10"			444,51 2.8.250 50 300	655,30 2.9.250 50 200		1.090 2.12.250 20 80	1.763 2.16.250 20 60
11"				1.301 2.9.275 50 150		2.371 2.12.275 20 80	3.844 2.16.275 20 60
12"				1.400 2.9.300 50 100		2.570 2.12.300 25 50	4.144 2.16.300 25 50