



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"		20,605 101.5.12 500 6.000	27,348 101.6.12 500 4.000	45,236 101.8.12 500 3.000	68,276 101.9.12 200 1.600							
5/8"		22,384 101.5.16 500 6.000	31,562 101.6.16 500 4.000	50,481 101.8.16 500 2.500	76,237 101.9.16 200 1.600							
3/4"		25,756 101.5.19 500 6.000	34,653 101.6.19 500 4.000	55,164 101.8.19 200 2.400	84,104 101.9.19 200 1.600		176,36 101.12.19 200 800					
7/8"		29,221 101.5.22 500 6.000	36,807 101.6.22 500 4.000	60,409 101.8.22 200 2.400	79,975 1.9.22 #N/A 1.600							
1"		51,605 101.5.50 200 2.400	39,898 101.6.25 500 3.000	65,654 101.8.25 200 1.600	97,216 101.9.25 200 1.200	136,65 101.11.25 200 800	199,68 101.12.25 100 800	262,71 101.14.25 100 600	352,06 101.16.25 100 400			
1.1/4"		36,152 101.5.32 500 4.000	44,674 101.6.32 200 2.400	76,143 101.8.32 200 1.600	112,95 101.9.32 200 1.200	155,00 101.11.32 200 800	220,66 101.12.32 100 500	289,03 101.14.32 100 400	399,35 101.16.32 100 400	620,01 101.19.32 50 200		
1.1/2"		42,989 101.5.38 500 4.000	52,542 101.6.38 200 1.600	84,104 101.8.38 200 1.600	126,06 101.9.38 200 1.000	173,36 101.11.38 100 600	246,97 101.12.38 100 500	325,83 101.14.38 100 400	436,16 101.16.38 50 300	693,62 101.19.38 50 200		
1.3/4"		47,297 101.5.44 200 2.400	57,786 101.6.44 200 1.600	94,594 101.8.44 200 1.200	141,89 101.9.44 200 800	194,43 101.11.44 100 600	273,20 101.12.44 100 500	357,30 101.14.44 50 300	462,39 101.16.44 50 250	746,17 101.19.44 50 200		
2"		51,605 101.5.50 200 2.400	65,654 101.6.50 200 1.600	105,08 101.8.50 200 1.200	155,00 101.9.50 200 800	215,4 101.11.50 100 400	294,27 101.12.50 100 400	388,86 101.14.50 50 300	525,51 101.16.50 50 250	788,22 101.19.50 20 160	1.182,1 101.22.50 20 120	1.629,0 101.25.50 20 80
2.1/4"			78,859 101.6.56 200 1.200	128,78 101.8.56 200 800	189,2 101.9.56 100 600	246,97 101.11.56 100 600	346,81 101.12.56 50 300	436,16 101.14.56 50 300	588,54 101.16.56 50 200	893,30 101.19.56 20 120	1.287,4 101.22.56 20 80	
2.1/2"			86,726 101.6.63 200 1.200	141,89 101.8.63 100 800	204,9 101.9.63 100 600	273,20 101.11.63 100 400	378,37 101.12.63 50 300	483,46 101.14.63 50 200	630,59 101.16.63 50 200	972,2 101.19.63 20 120	1.366,2 101.22.63 20 80	1.904,8 101.25.63 20 80
2.3/4"			94,594 101.6.70 100 800	152,38 101.8.70 100 600	220,7 101.9.70 100 400	304,76 101.11.70 100 400	409,84 101.12.70 50 300	536,0 101.14.70 50 200	693,62 101.16.70 50 200	1.024,7 101.19.70 20 120	1.445,0 101.22.70 20 80	1.996,8 101.25.70 20 80
3"			105,08 101.6.76 100 800	167,65 101.8.76 100 600	241,7 101.9.76 100 400	325,8 101.11.76 100 400	441,41 101.12.76 50 200	578,05 101.14.76 50 200	709,36 101.16.76 20 160	1.103,5 101.19.76 20 120	1.550,1 101.22.76 20 80	2.101,9 101.25.76 10 60
3.1/4"			110,33 101.6.82 100 600	189,19 101.8.82 100 400	262,7 101.9.82 100 400	346,81 101.11.82 50 300	483,46 101.12.82 50 200	630,59 101.14.82 50 200	761,90 101.16.82 20 160	1.182,3 101.19.82 20 80	1.655,2 101.22.82 20 80	2.312,0 101.25.82 10 60
3.1/2"			115,57 101.6.90 100 600	189,2 101.8.90 100 400	273,2 101.9.90 100 400	367,79 101.11.90 50 300	504,4 101.12.90 50 200	651,57 101.14.90 50 200	840,76 101.16.90 20 160	1.261,1 101.19.90 20 80	1.786,6 101.22.90 20 80	2.411,7 101.25.90 10 40
4"			131,40 101.6.100 100 600	215,4 101.8.100 100 400	310,00 101.9.100 100 400	420,33 101.11.100 50 300	578,05 101.12.100 50 200	735,68 101.14.100 50 200	919,53 101.16.100 20 120	1.392,5 101.19.100 20 80	1.944,2 101.22.100 20 80	2.627,4 101.25.100 10 40
4.1/2"				241,7 101.8.110 100 400	336,3 101.9.110 50 400	472,87 101.11.110 50 200	641,08 101.12.110 50 200	819,69 101.14.110 50 200	1.024,7 101.16.110 20 120	1.550,1 101.19.110 20 80	2.101,9 101.22.110 10 60	2.837,5 101.25.110 10 40
5"				262,7 101.8.125 100 400	378,37 101.9.125 50 300	514,9 101.11.125 50 200	704,11 101.12.125 50 200	903,79 101.14.125 25 150	1.129,8 101.16.125 20 120	1.681,5 101.19.125 20 80	2.364,6 101.22.125 10 60	3.152,8 101.25.125 10 40
5.1/2"				283,78 101.8.140 100 400	420,33 101.9.140 50 300	567,5 101.11.140 50 200	777,73 101.12.140 50 200	966,8 101.14.140 25 150	1.234,9 101.16.140 20 120	1.839,1 101.19.140 20 80	2.574,8 101.22.140 10 60	3.363,0 101.25.140 10 40
6"				310,00 101.8.155 100 400	451,90 101.9.155 50 200	609,52 101.11.155 50 200	840,76 101.12.155 50 200	1.072,0 101.14.155 25 100	1.313,6 101.16.155 20 120	1.996,8 101.19.155 20 80	2.785,0 101.22.155 10 40	3.678,3 101.25.155 10 40
7"							966,8 101.12.175 25 100		1.523,9 101.16.175 20 80	2.259,5 101.19.175 10 60	3.152,8 101.22.175 10 40	4.203,7 101.25.175 10 40
8"							1.093,0 101.12.200 25 100		1.707,7 101.16.200 20 80	2.574,8 101.19.200 10 40	3.520,7 101.22.200 10 40	4.729,2 101.25.200 10 20
9"									1.891,7 101.16.225 20 80	2.771,9 101.19.225 10 40	3.970,4 101.22.225 10 40	5.254,7 101.25.225 10 20
10"									2.133,4 101.16.250 20 60	3.140,2 101.19.250 10 40	4.356,1 101.22.250 10 30	5.691,4 101.25.250 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"	29,543 102.5.19 500 4.000	37,069 102.6.19 500 3.000	60,214 102.8.19 200 1.200				
1"	33,400 102.5.25 500 4.000	38,575 102.6.25 500 2.000	76,679 102.8.25 200 1.200	100,29 102.9.25 100 800			
1.1/4"	39,422 102.5.32 500 4.000	47,136 102.6.32 500 2.000	76,209 102.8.32 200 1.200	120,33 102.9.32 100 800	173,49 102.11.32 100 400	224,11 102.12.32 50 400	
1.1/2"	45,161 102.5.38 500 3.000	58,709 102.6.38 200 1.600	85,711 102.8.38 200 800	135,39 102.9.38 100 600	196,54 102.11.38 100 400	256,29 102.12.38 50 400	
1.3/4"	48,454 102.5.44 500 2.000	57,674 102.6.44 200 1.600	97,75 102.8.44 200 800	152,42 102.9.44 100 600		279,81 102.12.44 50 300	
2"	59,085 102.5.50 500 2.000	65,201 102.6.50 200 1.200	107,82 102.8.50 200 800	170,48 102.9.50 100 600	234,18 102.11.50 100 400	299,85 102.12.50 50 300	506,46 102.16.50 20 120
2.1/4"		70,752 102.6.56 200 1.200	115,35 102.8.56 200 800	168,04 102.9.56 100 600		337,01 102.12.56 50 300	545,13 102.16.56 20 120
2.1/2"		75,268 102.6.63 200 800	127,86 102.8.63 200 800	190,52 102.9.63 100 400	270,31 102.11.63 50 300	360,06 102.12.63 50 300	601,77 102.16.63 20 120
2.3/4"		82,230 102.6.70 200 800	135,39 102.8.70 100 600	200,12 102.9.70 100 400		380,10 102.12.70 50 250	646,93 102.16.70 20 120
3"		85,241 102.6.76 200 800	145,46 102.8.76 100 600	215,64 102.9.76 100 400	306,43 102.11.76 50 300	400,14 102.12.76 50 200	687,01 102.16.76 20 120
3.1/4"		91,262 102.6.82 200 800	155,43 102.8.82 100 400	233,71 102.9.82 100 400		400,14 102.12.82 50 200	729,63 102.16.82 20 120
3.1/2"		98,32 102.6.90 100 600	160,51 102.8.90 100 400	240,67 102.9.90 100 400	337,95 102.11.90 50 200	460,36 102.12.90 50 200	737,15 102.16.90 20 120
4"		110,36 102.6.100 100 600	180,55 102.8.100 100 400	269,84 102.9.100 50 300	383,11 102.11.100 50 200	517,00 102.12.100 50 200	827,48 102.16.100 20 120
4.1/2"		120,33 102.6.110 100 600	200,59 102.8.110 100 400	296,84 102.9.110 50 250	422,25 102.11.110 50 200	550,58 102.12.110 25 150	907,64 102.16.110 20 80
5"		132,8 102.6.125 100 400	220,63 102.8.125 100 400	326,47 102.9.125 50 250	450,85 102.11.125 50 200	601,77 102.12.125 25 125	988 102.16.125 20 80
5.1/2"			237,19 102.8.140 100 400	349,05 102.9.140 50 250	507,02 102.11.140 50 200	655,96 102.12.140 25 150	1.069 102.16.140 20 80
6"			255,72 102.8.155 100 400	380,10 102.9.155 50 250	547,10 102.11.155 50 200	708,08 102.12.155 25 150	1.149 102.16.155 20 80
7"			286,30 102.8.175 50 300	430,25 102.9.175 50 200	626,04 102.11.175 50 200	801,32 102.12.175 25 100	1.289 102.16.175 40 10
8"			326,47 102.8.200 50 200	480,40 102.9.200 50 200	714,01 102.11.200 25 100	902,65 102.12.200 25 100	1.489 102.16.200 10 40
9"			367,12 102.8.225 50 200	546,63 102.9.225 25 100		996 102.12.225 25 100	1.620 102.16.225 10 40
10"			408,23 102.8.250 50 100	601,77 102.9.250 50 200		1.101 102.12.250 20 80	1.781 102.16.250 20 60
11"				657 102.9.275 50 150		1.198 102.12.275 20 80	2.912 102.16.275 20 60
12"				707 102.9.300 50 100		1.298 102.12.300 50 25	3.139 102.16.300 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"	17,917 1.5.12 500 6.000	23,781 1.6.12 500 4.000	39,336 1.8.12 500 3.000	59,370 1.9.12 200 1.600								
5/8"	19,464 1.5.16 500 6.000	27,446 1.6.16 500 4.000	43,897 1.8.16 500 2.500	66,293 1.9.16 200 1.600								
3/4"	22,396 1.5.19 500 6.000	30,133 1.6.19 500 4.000	47,969 1.8.19 200 2.400	73,134 1.9.19 200 1.600		153,35 1.12.19 200 800						
7/8"	25,410 1.5.22 500 6.000	32,006 1.6.22 500 4.000	52,529 1.8.22 200 2.400	79,975 1.9.22 200 1.600								
1"	26,957 1.5.25 500 4.000	34,694 1.6.25 500 3.000	57,090 1.8.25 200 1.600	84,536 1.9.25 200 1.200	118,82 1.11.25 200 800	173,63 1.12.25 100 800	228,44 1.14.25 100 600	306,1 1.16.25 100 400				
1.1/4"	31,436 1.5.32 500 4.000	38,847 1.6.32 200 2.400	66,211 1.8.32 200 1.600	98,22 1.9.32 200 1.200	134,78 1.11.32 800 200	191,87 1.12.32 100 500	251,33 1.14.32 100 400	347,26 1.16.32 100 400	539,14 1.19.32 50 200			
1.1/2"	37,381 1.5.38 500 4.000	45,688 1.6.38 200 1.600	73,134 1.8.38 200 1.600	109,62 1.9.38 200 1.000	150,75 1.11.38 100 600	214,76 1.12.38 100 500	283,33 1.14.38 100 400	379,27 1.16.38 50 300	603,15 1.19.38 50 200			
1.3/4"	41,128 1.5.44 200 2.400	50,249 1.6.44 200 1.600	82,255 1.8.44 200 1.200	123,38 1.9.44 200 800	169,07 1.11.44 100 600	237,56 1.12.44 100 500	310,7 1.14.44 50 300	402,07 1.16.44 50 250	648,84 1.19.44 50 200			
2"	44,874 1.5.50 200 2.400	57,090 1.6.50 200 1.600	91,377 1.8.50 200 1.200	134,78 1.9.50 200 800	187,31 1.11.50 100 400	255,89 1.12.50 100 400	338,14 1.14.50 50 300	456,97 1.16.50 50 250	685,41 1.19.50 20 160	1.027,9 1.22.50 20 120	1.416,5 1.25.50 20 80	
2.1/4"		68,573 1.6.56 200 1.200	111,98 1.8.56 200 800	164,51 1.9.56 100 600	214,76 1.11.56 100 600	301,6 1.12.56 50 300	379,27 1.14.56 50 300	511,77 1.16.56 50 200	776,78 1.19.56 20 120	1.119,5 1.22.56 20 80		
2.1/2"		75,414 1.6.63 200 1.200	123,38 1.8.63 100 800	178,19 1.9.63 100 600	237,56 1.11.63 100 400	329,02 1.12.63 50 300	420,40 1.14.63 50 200	548,34 1.16.63 50 200	845,36 1.19.63 20 120	1.188,0 1.22.63 20 80	1.656,3 1.25.63 20 80	
2.3/4"		82,255 1.6.70 100 800	132,50 1.8.70 100 600	191,87 1.9.70 100 400	265,01 1.11.70 100 400	356,39 1.12.70 50 300	466,09 1.14.70 50 200	603,15 1.16.70 50 200	891,05 1.19.70 20 120	1.256,6 1.22.70 20 80	1.736,3 1.25.70 20 80	
3"		91,377 1.6.76 100 800	145,78 1.8.76 100 600	210,2 1.9.76 100 400	283,3 1.11.76 100 400	383,83 1.12.76 50 200	502,65 1.14.76 50 200	616,83 1.16.76 20 160	959,5 1.19.76 20 120	1.347,9 1.22.76 20 80	1.827,7 1.25.76 10 60	
3.1/4"		95,94 1.6.82 100 600	164,51 1.8.82 100 400	228,4 1.9.82 100 400	301,58 1.11.82 50 300	420,40 1.12.82 50 200	548,34 1.14.82 50 200	662,52 1.16.82 20 160	1.028,1 1.19.82 20 80	1.439,3 1.22.82 20 80	2.010,5 1.25.82 10 60	
3.1/2"		100,50 1.6.90 100 600	164,51 1.8.90 100 400	237,6 1.9.90 100 400	319,82 1.11.90 50 300	438,64 1.12.90 50 200	566,58 1.14.90 50 200	731,10 1.16.90 20 160	1.096,6 1.19.90 20 80	1.553,6 1.22.90 20 80	2.097,1 1.25.90 10 40	
4"		114,26 1.6.100 100 600	187,3 1.8.100 100 400	269,57 1.9.100 100 400	365,51 1.11.100 50 300	502,65 1.12.100 50 200	639,72 1.14.100 50 200	799,59 1.16.100 20 120	1.210,9 1.19.100 20 80	1.690,6 1.22.100 20 80	2.284,7 1.25.100 10 40	
4.1/2"			210,2 1.8.110 100 400	292,45 1.9.110 50 400	411,20 1.11.110 50 200	557,46 1.12.110 50 200	712,77 1.14.110 50 200	891,05 1.16.110 20 120	1.347,9 1.19.110 20 80	1.827,7 1.22.110 10 60	2.467,4 1.25.110 10 40	
5"			228,4 1.8.125 100 400	329,02 1.9.125 50 300	447,76 1.11.125 50 200	612,27 1.12.125 50 200	785,91 1.14.125 25 150	982,4 1.16.125 20 120	1.462,2 1.19.125 20 80	2.056,1 1.22.125 10 60	2.741,5 1.25.125 10 40	
5.1/2"			246,77 1.8.140 100 400	365,51 1.9.140 50 300	493,45 1.11.140 50 200	676,29 1.12.140 50 200	840,71 1.14.140 25 150	1.073,8 1.16.140 20 120	1.599,3 1.19.140 20 80	2.239,0 1.22.140 10 60	2.924,4 1.25.140 10 40	
6"			269,57 1.8.155 100 400	392,95 1.9.155 50 200	530,02 1.11.155 50 200	731,10 1.12.155 50 200	932,2 1.14.155 25 100	1.142,3 1.16.155 20 120	1.736,3 1.19.155 20 80	2.421,7 1.22.155 10 40	3.198,5 1.25.155 10 40	
7"						840,71 1.12.175 25 100		1.325,1 1.16.175 20 80	1.964,8 1.19.175 10 60	2.741,5 1.22.175 10 40	3.655,4 1.25.175 10 40	
8"						950,4 1.12.200 25 100		1.485,0 1.16.200 20 80	2.239,0 1.19.200 10 40	3.061,4 1.22.200 10 40	4.112,4 1.25.200 5 20	
9"								1.644,9 1.16.225 20 80	2.410,3 1.19.225 10 40	3.452,5 1.22.225 10 40	4.569,3 1.25.225 5 20	
10"								1.855,1 1.16.250 20 60	2.730,6 1.19.250 10 40	3.787,9 1.22.250 10 30	4.949,0 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"	25,531 2.5.19 500 4.000	32,036 2.6.19 500 3.000	52,038 2.8.19 200 1.200				
1"	28,865 2.5.25 500 4.000	33,337 2.6.25 500 2.000	66,268 2.8.25 200 1.200	86,676 2.9.25 100 800			
1.1/4"	34,069 2.5.32 500 4.000	40,736 2.6.32 500 2.000	65,861 2.8.32 200 1.200	104,00 2.9.32 100 800			
1.1/2"	39,029 2.5.38 500 3.000	50,737 2.6.38 200 1.600	74,073 2.8.38 200 800	117,00 2.9.38 100 600	169,86 2.11.38 100 400	221,49 2.12.38 50 400	
1.3/4"	41,875 2.5.44 500 2.000	49,843 2.6.44 200 1.600	84,481 2.8.44 200 800	131,72 2.9.44 100 600		241,82 2.12.44 50 300	
2"	51,063 2.5.50 500 2.000	56,348 2.6.50 200 1.200	93,18 2.8.50 200 800	147,33 2.9.50 100 600	202,38 2.11.50 100 400	259,13 2.12.50 50 300	437,69 2.16.50 20 120
2.1/4"		61,145 2.6.56 200 1.200	99,69 2.8.56 200 800	145,22 2.9.56 100 600		291,25 2.12.56 50 300	471,11 2.16.56 20 120
2.1/2"		65,048 2.6.63 200 800	110,50 2.8.63 200 800	164,65 2.9.63 100 400	233,60 2.11.63 50 300	311,17 2.12.63 50 300	520,06 2.16.63 20 120
2.3/4"		71,065 2.6.70 200 800	117,00 2.8.70 100 600	172,95 2.9.70 100 400		328,49 2.12.70 50 250	559,09 2.16.70 20 120
3"		73,667 2.6.76 200 800	125,71 2.8.76 100 600	186,36 2.9.76 100 400	264,83 2.11.76 50 300	345,81 2.12.76 50 200	593,72 2.16.76 20 120
3.1/4"		78,871 2.6.82 200 800	134,32 2.8.82 100 400	201,97 2.9.82 100 400		345,81 2.12.82 50 200	630,56 2.16.82 20 120
3.1/2"		84,969 2.6.90 100 600	138,71 2.8.90 100 400	207,99 2.9.90 100 400	292,07 2.11.90 50 200	397,85 2.12.90 50 200	637,06 2.16.90 20 120
4"		95,38 2.6.100 100 600	156,03 2.8.100 100 400	233,20 2.9.100 50 300	331,09 2.11.100 50 200	446,80 2.12.100 50 200	715,12 2.16.100 20 120
4.1/2"		104,00 2.6.110 100 600	173,35 2.8.110 100 400	256,5 2.9.110 50 250	364,92 2.11.110 50 200	475,83 2.12.110 25 150	784,40 2.16.110 20 80
5"		114,81 2.6.125 100 400	190,67 2.8.125 100 400	282,15 2.9.125 50 250	389,64 2.11.125 50 200	520,06 2.12.125 25 150	853,75 2.16.125 20 80
5.1/2"			204,98 2.8.140 100 400	301,66 2.9.140 50 250	438,18 2.11.140 50 200	566,89 2.12.140 25 150	924 2.16.140 20 80
6"			221,00 2.8.155 100 400	328,49 2.9.155 50 250	472,82 2.11.155 50 200	611,94 2.12.155 25 150	993 2.16.155 20 80
7"			247,43 2.8.175 50 300	371,83 2.9.175 50 200		692,52 2.12.175 25 100	1.114 2.16.175 10 40
8"			282,15 2.8.200 50 200	415,17 2.9.200 50 200		780,09 2.12.200 25 100	1.287 2.16.200 10 40
9"			317,27 2.8.225 50 200	472,41 2.9.225 25 100		860,67 2.12.225 25 100	1.400 2.16.225 10 40
10"			352,80 2.8.250 50 300	520,06 2.9.250 50 200		951 2.12.250 20 80	1.539 2.16.250 20 60
11"				568 2.9.275 50 150		1.035 2.12.275 20 80	2.516 2.16.275 20 60
12"				611 2.9.300 50 100		1.122 2.12.300 25 50	2.713 2.16.300 25 50