



BULON EXAG GRADO 5 UNF (SAE) BICROMATIZADO

DIAMETRO	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"	
Hilos	28 - UNF	24 - UNF	24 - UNF	20 - UNF	20 - UNF	18 - UNF	18 - UNF	16 - UNF	14 - UNF	14 - UNS	
Cabeza	Llave	7/16"	1/2"	9/16"	5/8"	3/4"	13/16"	15/16"	1.1/8"	1.5/16"	1.1/2"
	Altura	4,14	5,36	6,17	7,39	8,20	9,42	10,24	12,27	14,30	15,93
1/2"	42,500 21.6.12 250 500	66,824 21.8.12 250 500	196,99 21.9.12 100 200								
5/8"	45,441 21.6.16 250 500	74,398 21.8.16 250 500	206,37 21.9.16 100 200								
3/4"	51,678 21.6.19 250 500	83,486 21.8.19 100 200	121,35 21.9.19 100 200	179,09 21.11.19 50 100	469,02 21.12.19 25 50						
7/8"	56,133 21.6.22 250 500	92,663 21.8.22 100 200	134,99 21.9.22 100 200								
1"	60,677 21.6.25 250 500	98,633 21.8.25 100 200	144,16 21.9.25 100 200	204,93 21.11.25 100 200	295,90 21.12.25 50 100	387,05 21.14.25 50 100	515,97 21.16.25 50 100				
1.1/4"	68,250 21.6.32 100 200	110,04 21.8.32 100 200	166,88 21.9.32 100 200	235,22 21.11.32 100 200	333,94 21.12.32 50 100	440,06 21.14.32 50 100	584,31 21.16.32 50 100	925,74 21.19.32 25 50			
1.1/2"	79,744 21.6.38 100 200	129,02 21.8.38 100 200	193,43 21.9.38 100 200	265,60 21.11.38 50 100	371,81 21.12.38 50 100	493,25 21.14.38 50 100	667,80 21.16.38 25 50	1.002 21.19.38 25 50			
1.3/4"	91,059 21.6.44 100 200	140,42 21.8.44 100 200	212,41 21.9.44 100 200	295,90 21.11.44 50 100	417,34 21.12.44 50 100	546,36 21.14.44 25 50	713,33 21.16.44 25 50	1.108 21.19.44 25 50			
2"	98,633 21.6.50 100 200	159,31 21.8.50 100 200	239,05 21.9.50 100 200	326,37 21.11.50 50 100	465,19 21.12.50 50 100	591,98 21.14.50 25 50	789,15 21.16.50 25 50	1.214 21.19.50 10 20	1.486 21.22.50 10 20	2.013 21.25.50 10 20	
2.1/4"	120,19 21.6.56 100 200	195,39 21.8.56 100 200	281,38 21.9.56 50 100	383,04 21.11.56 50 100	531,48 21.12.56 25 50	672,2 21.14.56 25 50	890,99 21.16.56 25 50	1.368 21.19.56 10 20	1.909 21.22.56 10 20	6.566 21.25.56 10 20	
2.1/2"	131,87 21.6.63 100 200	210,99 21.8.63 50 100	312,65 21.9.63 50 100	414,22 21.11.63 50 100	578,43 21.12.63 25 50	750,31 21.14.63 25 50	969,22 21.16.63 25 50	1.446 21.19.63 10 20	2.024 21.22.63 10 20	2.821 21.25.63 10 20	
2.3/4"	262,65 21.6.70 50 100	412,74 21.8.70 50 100	525,31 21.9.70 50 100	806,7 21.11.70 50 100	976 21.12.70 25 50	1.576 21.14.70 25 50	1.642 21.16.70 25 50	2.570 21.19.70 10 20	5.347 21.22.70 10 20	7.317 21.25.70 10 20	
3"	148,44 21.6.76 50 100	242,3 21.8.76 50 100	359,52 21.9.76 50 100	492,45 21.11.76 50 100	672,17 21.12.76 25 50	875,31 21.14.76 25 50	1.133 21.16.76 10 20	1.680 21.19.76 10 20	2.330 21.22.76 10 20	3.180 21.25.76 5 10	
3.1/4"	318,9 21.6.82 50 100	525,31 21.8.82 50 100	647,25 21.9.82 50 100	1.032 21.11.82 25 50	1219,5 21.12.82 25 50	1.839 21.14.82 25 50	2.139 21.16.82 10 20	2.824 21.19.82 10 20	5.722 21.22.82 10 20	8.396 21.25.82 5 10	
3.1/2"	351,8 21.6.90 50 100	281,38 21.8.90 50 100	414,13 21.9.90 50 100	562,75 21.11.90 25 50	766,0 21.12.90 25 50	984,81 21.14.90 25 50	1.251 21.16.90 10 20	1.915 21.19.90 10 20	2.637 21.22.90 10 20	3570,6 21.25.90 5 10	
4"	378,0 21.6.100 50 100	320,40 21.8.100 50 100	468,84 21.9.100 50 100	650,3 21.11.100 25 50	875,31 21.12.100 25 50	1.110 21.14.100 25 50	1.407 21.16.100 10 20	2.110 21.19.100 10 20	2.905 21.22.100 10 20	3953,6 21.25.100 5 10	
4.1/2"	487,78 21.6.110 25 50	666,01 21.8.110 50 100	515,80 21.9.110 25 50	1.407 21.11.110 25 50	969,22 21.12.110 25 50	2.448 21.14.110 25 50	1.563 21.16.110 10 20	2.345 21.19.110 10 20	3.135 21.22.110 5 10	4413,4 21.25.110 5 10	
5"	572,21 21.6.125 25 50	731,7 21.8.125 50 100	562,75 21.9.125 25 50	1.567 21.11.125 25 50	1.079 21.12.125 25 50	2.683 21.14.125 25 50	1.720 21.16.125 10 20	2.579 21.19.125 10 20	3.518 21.22.125 5 10	4720 21.25.125 5 10	
5.1/2"	712,91 21.6.140 25 50	787,96 21.8.140 50 100	1125,7 21.9.140 25 50	1.717 21.11.140 25 50	2.092 21.12.140 25 50	2.833 21.14.140 25 50	1.876 21.16.140 10 20	2.775 21.19.140 10 20	3.824 21.22.140 5 10	5103 21.25.140 5 10	
6"	787,96 21.6.155 25 50	853,62 21.8.155 50 100	1247,6 21.9.155 25 50	1.895 21.11.155 25 50	2.261 21.12.155 25 50	3.105 21.14.155 25 50	2.032 21.16.155 10 20	2.970 21.19.155 10 20	4.054 21.22.155 5 10	5409 21.25.155 5 10	
7"					3.039 21.12.175 25 50	4.090 21.14.175 5 10	4.371 21.16.175 5 10	6.097 21.19.175 5 10	4676,2 21.22.175 5 10	6189 21.25.175 5 10	
8"					3.611 21.12.200 25 50	4.662 21.14.200 5 10	4.850 21.16.200 5 10	6.848 21.19.200 5 10	5212 21.22.200 5 10	6878 21.25.200 5 10	
9"					4.080 21.12.225 5 10	5.347 21.14.225 5 10	5.610 21.16.225 5 10	7.476 21.19.225 5 10	11913 21.22.225 5 10	19324 21.25.225 5 10	


BULON CAB. REDONDA C/C METRICO 8.8

DIAMETRO Paso - Rosca	M6 1,00 - MA	M8 1,25 - MA	M10 1,50 - MA	M12 1,75 - MA
LARGO				
16	52,121 6.6.16 500 3.000	94,028 6.8.16 200 1.600		
20	58,231 6.6.20 500 3.000	105,865 6.8.20 200 1.600	167,055 6.10.20 200 1.200	
25	62,813 6.6.25 500 3.000	114,170 6.8.25 200 1.600	174,023 6.10.25 200 800	306,331 6.12.25 100 600
30	65,867 6.6.30 500 3.000	121,807 6.8.30 200 1.200	199,225 6.10.30 200 800	341,174 6.12.30 100 600
35	71,977 6.6.35 500 2.000	132,594 6.8.35 200 1.200	206,098 6.10.35 200 800	346,424 6.12.35 100 400
40	80,377 6.6.40 500 2.000	142,713 6.8.40 200 1.200	222,803 6.10.40 200 800	376,016 6.12.40 100 400
45	88,109 6.6.45 200 1.600	153,118 6.8.45 200 800	243,709 6.10.45 100 600	405,227 6.12.45 100 400
50	91,928 6.6.50 200 1.600	162,186 6.8.50 200 800	257,551 6.10.50 100 600	417,732 6.12.50 100 400
55	99,565 6.6.55 200 1.200	174,023 6.8.55 100 600	271,488 6.10.55 100 400	466,512 6.12.55 50 200
60	107,201 6.6.60 200 1.200	187,961 6.8.60 100 600	285,425 6.10.60 100 400	473,481 6.12.60 50 200
70		208,866 6.8.70 100 600	320,268 6.10.70 100 400	546,603 6.12.70 50 200
80		238,745 6.8.80 100 600	366,852 6.10.80 100 400	584,883 6.12.80 50 200
90		255,546 6.8.90 100 400	403,795 6.10.90 50 200	626,599 6.12.90 50 200
100		306,331 6.8.100 100 400	431,670 6.10.100 50 200	699,721 6.12.100 50 200
110				738,000 6.12.110 50 200
120				800,718 6.12.120 50 200


BULON EXAG. MB 8.8 BICROMATIZADO
HOJA 7C

MEDIDA		M10	M12	M12	M14	M16	M18	M20	M22	M24
Paso - Rosca		1,25 - MC	1,25 - MC	1,50 - MB	1,50 - MB	1,50 - MB	1,50 - MB	1,50 - MB	1,50 - MB	2,00 - MB
Cabeza	Llave	17	19	19	22	24	27	30	32	36
	Altura	6,40	7,50	7,50	8,80	10,00	11,50	12,50	14,00	15,00
LARGO										
16		277,896 <small>19.10.125.15 50 100</small>								
20		159,816 <small>19.10.125.20 100 200</small>	240,897 <small>19.12.125.20 100 200</small>	237,848 <small>19.12.150.20 100 200</small>						
25		182,073 <small>19.10.125.25 100 200</small>	263,53 <small>19.12.125.25 50 100</small>	260,19 <small>19.12.150.25 50 100</small>	393,998 <small>19.14.150.25 50 100</small>	520,384 <small>19.16.150.25 25 50</small>				
30		200,665 <small>19.10.125.30 50 100</small>	286,07 <small>19.12.125.30 50 100</small>	282,449 <small>19.12.150.30 50 100</small>	426,729 <small>19.14.150.30 50 100</small>	564,986 <small>19.16.150.30 25 50</small>	787,821 <small>19.18.150.30 25 50</small>			
35		225,868 <small>19.10.125.35 50 100</small>	316,22 <small>19.12.125.35 50 100</small>	312,213 <small>19.12.150.35 50 100</small>	460,857 <small>19.14.150.35 50 100</small>	624,43 <small>19.16.150.35 25 50</small>	862,274 <small>19.18.150.35 25 50</small>			
40		240,985 <small>19.10.125.40 50 100</small>	346,361 <small>19.12.125.40 50 100</small>	341,977 <small>19.12.150.40 50 100</small>	505,459 <small>19.14.150.40 50 100</small>	669,028 <small>19.16.150.40 25 50</small>	921,627 <small>19.18.150.40 25 50</small>			
45		263,528 <small>19.10.125.45 50 100</small>	368,904 <small>19.12.125.45 50 100</small>	364,234 <small>19.12.150.45 50 100</small>	535,22 <small>19.14.150.45 25 50</small>	713,717 <small>19.16.150.45 25 50</small>	981,154 <small>19.18.150.45 25 50</small>	1.263,78 <small>19.20.150.45 10 20</small>		
50		286,071 <small>19.10.125.50 50 100</small>	399,049 <small>19.12.125.50 50 100</small>	394,00 <small>19.12.150.50 50 100</small>	579,737 <small>19.14.150.50 25 50</small>	773,070 <small>19.16.150.50 25 50</small>	1.055,43 <small>19.18.150.50 25 50</small>	1.338,14 <small>19.20.150.50 10 20</small>	4.710,16 <small>19.22.150.50 5 10</small>	6.146,07 <small>19.24.200.50 10 20</small>
55		555,792 <small>19.10.125.55 50 100</small>	796,635 <small>19.12.125.55 25 50</small>	451,78 <small>19.12.150.55 50 100</small>	1.143,24 <small>19.14.150.55 25 50</small>	872,84 <small>19.16.150.55 25 50</small>				
60		348,925 <small>19.10.125.60 50 100</small>	511,851 <small>19.12.125.60 25 50</small>	490,01 <small>19.12.150.60 25 50</small>	689,103 <small>19.14.150.60 25 50</small>	934,108 <small>19.16.150.60 25 50</small>	1.225,02 <small>19.18.150.60 10 20</small>	1.569,71 <small>19.20.150.60 10 20</small>	4.920,51 <small>19.22.150.60 5 10</small>	6.767,99 <small>19.24.200.60 10 20</small>
65		629,897 <small>19.10.125.65 50 100</small>	935,582 <small>19.12.125.65 25 50</small>	520,646 <small>19.12.150.65 25 50</small>	734,927 <small>19.14.150.65 25 50</small>	964,74 <small>19.16.150.65 25 50</small>	1.301,48 <small>19.18.150.65 10 20</small>	1.646,17 <small>19.20.150.65 10 20</small>		6.859,45 <small>19.24.200.65 5 10</small>
70		395,513 <small>19.10.125.70 50 100</small>	558,350 <small>19.12.125.70 25 50</small>	551,283 <small>19.12.150.70 25 50</small>	796,200 <small>19.14.150.70 25 50</small>	1.055,17 <small>19.16.150.70 25 50</small>	1.378,03 <small>19.18.150.70 10 20</small>	1.761,12 <small>19.20.150.70 10 20</small>	5.066,85 <small>19.22.150.70 5 10</small>	7.005,79 <small>19.24.200.70 5 10</small>
75		722,529 <small>19.10.125.75 50 100</small>	1.046,74 <small>19.12.125.75 25 50</small>	1.033,49 <small>19.12.150.75 25 50</small>	1.527,37 <small>19.14.150.75 25 50</small>	1.902,35 <small>19.16.150.75 25 50</small>	2.816,95 <small>19.18.150.75 10 20</small>	3.036,45 <small>19.20.150.75 10 20</small>	5.359,52 <small>19.22.150.75 5 10</small>	7.719,17 <small>19.24.200.75 5 10</small>
80		434,233 <small>19.10.125.80 50 100</small>	635,879 <small>19.12.125.80 25 50</small>	612,468 <small>19.12.150.80 25 50</small>	857,47 <small>19.14.150.80 25 50</small>	1.148,48 <small>19.16.150.80 10 20</small>	1.492,90 <small>19.18.150.80 10 20</small>	1.914,21 <small>19.20.150.80 10 20</small>	5.761,94 <small>19.22.150.80 5 10</small>	7.810,63 <small>19.24.200.80 5 10</small>
90		488,512 <small>19.10.125.90 50 100</small>	697,938 <small>19.12.125.90 25 50</small>	689,103 <small>19.12.150.90 25 50</small>	1.010,57 <small>19.14.150.90 25 50</small>	1.301,66 <small>19.16.150.90 10 20</small>	1.684,31 <small>19.18.150.90 10 20</small>	2.105,63 <small>19.20.150.90 10 20</small>	6.274,11 <small>19.22.150.90 5 10</small>	8.139,88 <small>19.24.200.90 5 10</small>
100		527,321 <small>19.10.125.100 25 50</small>	759,997 <small>19.12.125.100 25 50</small>	750,376 <small>19.12.150.100 25 50</small>	1.056,57 <small>19.14.150.100 25 50</small>	1.378,29 <small>19.16.150.100 10 20</small>	1.837,49 <small>19.18.150.100 10 20</small>	2.297,04 <small>19.20.150.100 10 20</small>	6.841,16 <small>19.22.150.100 5 10</small>	9.530,07 <small>19.24.200.100 5 10</small>
110		573,821 <small>19.10.125.110 25 50</small>	837,526 <small>19.12.125.110 25 50</small>	826,924 <small>19.12.150.110 25 50</small>	1.148,39 <small>19.14.150.110 10 20</small>	1.531,30 <small>19.16.150.110 10 20</small>	1.990,59 <small>19.18.150.110 10 20</small>	2.488,45 <small>19.20.150.110 10 20</small>	7.344,19 <small>19.22.150.110 5 10</small>	10.005,7 <small>19.24.200.110 5 10</small>
120		620,321 <small>19.10.125.120 25 50</small>	899,584 <small>19.12.125.120 25 50</small>	888,197 <small>19.12.150.120 25 50</small>	1.225,02 <small>19.14.150.120 10 20</small>	1.646,17 <small>19.16.150.120 10 20</small>	2.105,37 <small>19.18.150.120 10 20</small>	2.679,87 <small>19.20.150.120 10 20</small>	7.920,38 <small>19.22.150.120 5 10</small>	10.819,6 <small>19.24.200.120 5 10</small>
130					1.301,48 <small>19.14.150.130 10 20</small>	1.722,71 <small>19.16.150.130 10 20</small>	2.296,78 <small>19.18.150.130 10 20</small>	2.833,05 <small>19.20.150.130 40 80</small>	8.331,95 <small>19.22.150.130 5 10</small>	11.679,4 <small>19.24.200.130 5 10</small>
140					1.416,44 <small>19.14.150.140 10 20</small>	1.837,58 <small>19.16.150.140 10 20</small>	2.411,64 <small>19.18.150.140 10 20</small>	3.024,46 <small>19.20.150.140 10 20</small>	8.944,73 <small>19.22.150.140 5 10</small>	12.292,1 <small>19.24.200.140 5 10</small>
150					1.492,90 <small>19.14.150.150 10 20</small>	1.990,76 <small>19.16.150.150 10 20</small>	2.526,51 <small>19.18.150.150 10 20</small>	3.282,47 <small>19.20.150.150 5 10</small>	9.255,69 <small>19.22.150.150 5 10</small>	13.151,9 <small>19.24.200.150 5 10</small>



BULON METRICO CON FLANGE G8.8 DORADO

MEDIDA		M6	M8	M10	M12
PASO		1,00 - MA	1,25 - MA	1,50 - MA	1,75 - MA
Cabeza	Llave	10	13	15	16
	Altura	6,60	8,10	9,20	11,50
Largo de rosca		14,20	18,00	22,30	26,60
Largo					
16		86,362	134,738		
		341.6.16 500	341.8.16 200		
20				235,716	
				341.10.20 200	
25				240,669	
				341.10.25 100	
30		110,884		261,087	392,995
		341.6.30 500		341.10.30 100	341.12.30 100
40					466,985
					341.12.40 100

SILO G.5 DORADO SIN ARANDELA

MEDIDA		5/16"
Hilos por pulgada		18 - UNC
Cabeza	Llave	1/2"
	Altura	7,40
Diám. Máx. Flange		18,50
Largo		
3/4"		99,563
		322.8.19S 1.600
1"		110,580
		322.8.25S 1.600



SILO G.5 DORADO CON ARANDELA

MEDIDA		3/8"
Hilos por pulgada		16 - UNC
Cabeza	Llave	9/16"
	Altura	9,00
Diám. Max. Flange		20,60
Largo		
3/4"		166,073
		322.9.19 1.200
1"		187,713
		322.9.25 800
1.1/4"		199,953
		322.9.32 800
1.1/2"		226,098
		322.9.38 800