



**BULON EXAG GRADO 5 UNF (SAE) BICROMATIZADO**

HOJA 7A

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"	34,092 21.6.12 250 500	53,561 21.8.12 250 500									
5/8"	36,474 21.6.16 250 500	59,640 21.8.16 250 500	91,27 21.9.16 100 200								
3/4"	41,403 21.6.19 250 500	66,951 21.8.19 100 200	97,35 21.9.19 100 200	143,60 21.11.19 50 100							
7/8"	45,017 21.6.22 250 500	74,262 21.8.22 100 200	108,27 21.9.22 100 200								
1"	48,632 21.6.25 250 500	79,109 21.8.25 100 200	115,58 21.9.25 100 200	164,30 21.11.25 100 200	237,25 21.12.25 50 100	310,28 21.14.25 50 100	413,70 21.16.25 50 100				
1.1/4"	54,711 21.6.32 100 200	88,23 21.8.32 100 200	133,82 21.9.32 100 200	188,61 21.11.32 100 200	267,72 21.12.32 50 100	352,83 21.14.32 50 100	468,49 21.16.32 50 100	742,21 21.19.32 25 50			
1.1/2"	63,912 21.6.38 100 200	103,43 21.8.38 100 200	155,10 21.9.38 100 200	212,93 21.11.38 50 100	298,12 21.12.38 50 100	395,46 21.14.38 50 100	535,36 21.16.38 25 50	803,09 21.19.38 25 50			
1.3/4"	73,030 21.6.44 100 200	112,54 21.8.44 100 200	170,29 21.9.44 100 200	237,25 21.11.44 50 100	334,59 21.12.44 50 100	438,02 21.14.44 25 50	571,92 21.16.44 25 50	888 21.19.44 25 50			
2"	79,109 21.6.50 100 200	127,74 21.8.50 100 200	191,65 21.9.50 100 200	261,64 21.11.50 50 100	372,96 21.12.50 50 100	474,57 21.14.50 25 50	632,71 21.16.50 25 50	973 21.19.50 10 20	1.369 21.22.50 10 20	1.856 21.25.50 10 20	
2.1/4"	93,57 21.6.56 100 200	152,06 21.8.56 100 200	219,01 21.9.56 50 100	298,12 21.11.56 50 100	413,70 21.12.56 25 50	523,2 21.14.56 25 50	693,58 21.16.56 25 50	1.065 21.19.56 10 20	1.486 21.22.56 10 20	2.008 21.25.56 10 20	
2.1/2"	102,69 21.6.63 100 200	164,30 21.8.63 50 100	243,32 21.9.63 50 100	322,43 21.11.63 50 100	450,17 21.12.63 25 50	584,08 21.14.63 25 50	754,37 21.16.63 25 50	1.126 21.19.63 10 20	1.575 21.22.63 10 20	2.196 21.25.63 10 20	
3"	115,58 21.6.76 50 100	188,6 21.8.76 50 100	279,88 21.9.76 50 100	383,31 21.11.76 50 100	523,21 21.12.76 25 50	681,42 21.14.76 25 50	882 21.16.76 10 20	1.308 21.19.76 10 20	1.814 21.22.76 10 20	2.475 21.25.76 5 10	
3.1/2"		219,01 21.8.90 50 100	322,43 21.9.90 50 100	438,02 21.11.90 25 50	596,2 21.12.90 25 50	766,53 21.14.90 25 50	973 21.16.90 10 20	1.491 21.19.90 10 20	2.052 21.22.90 10 20	2779,3 21.25.90 5 10	
4"		249,40 21.8.100 50 100	365,07 21.9.100 50 100	506,2 21.11.100 25 50	681,42 21.12.100 25 50	864 21.14.100 25 50	1.095 21.16.100 10 20	1.643 21.19.100 10 20	2.261 21.22.100 10 20	3077,5 21.25.100 5 10	
4.1/2"			401,54 21.9.110 25 50		754,37 21.12.110 25 50		1.217 21.16.110 10 20	1.825 21.19.110 10 20	2.440 21.22.110 5 10	3435,3 21.25.110 5 10	
5"			438,02 21.9.125 25 50		840 21.12.125 25 50		1.338 21.16.125 10 20	2.008 21.19.125 10 20	2.738 21.22.125 5 10	3674 21.25.125 5 10	
5.1/2"							1.460 21.16.140 10 20	2.160 21.19.140 10 20	2.977 21.22.140 5 10	3972 21.25.140 5 10	
6"							1.582 21.16.155 10 20	2.312 21.19.155 10 20	3.156 21.22.155 5 10	4211 21.25.155 5 10	
7"									3639,8 21.22.175 5 10	4817 21.25.175 5 10	
8"									4057 21.22.200 5 10	5354 21.25.200 5 10	


**BULON CAB. REDONDA C/C METRICO 8.8**
**HOJA 7B**

DIAMETRO Paso - Rosca	M6 1,00 - MA	M8 1,25 - MA	M10 1,50 - MA	M12 1,75 - MA
LARGO				
16	47,667 <small>6.6.16 500 3.000</small>	85,994 <small>6.8.16 200 1.600</small>		
20	53,255 <small>6.6.20 500 3.000</small>	96,819 <small>6.8.20 200 1.600</small>	152,780 <small>6.10.20 200 1.200</small>	
25	57,445 <small>6.6.25 500 3.000</small>	104,414 <small>6.8.25 200 1.600</small>	159,154 <small>6.10.25 200 800</small>	280,156 <small>6.12.25 100 600</small>
30	60,239 <small>6.6.30 500 3.000</small>	111,399 <small>6.8.30 200 1.200</small>	182,202 <small>6.10.30 200 800</small>	312,021 <small>6.12.30 100 600</small>
35	65,827 <small>6.6.35 500 2.000</small>	121,264 <small>6.8.35 200 1.200</small>	188,487 <small>6.10.35 200 800</small>	316,823 <small>6.12.35 100 400</small>
40	73,509 <small>6.6.40 500 2.000</small>	130,518 <small>6.8.40 200 1.200</small>	203,765 <small>6.10.40 200 800</small>	343,887 <small>6.12.40 100 400</small>
45	80,581 <small>6.6.45 200 1.600</small>	140,034 <small>6.8.45 200 800</small>	222,885 <small>6.10.45 100 600</small>	370,602 <small>6.12.45 100 400</small>
50	84,073 <small>6.6.50 200 1.600</small>	148,328 <small>6.8.50 200 800</small>	235,544 <small>6.10.50 100 600</small>	382,038 <small>6.12.50 100 400</small>
55	91,057 <small>6.6.55 200 1.200</small>	159,154 <small>6.8.55 100 600</small>	248,290 <small>6.10.55 100 400</small>	426,650 <small>6.12.55 50 200</small>
60	98,041 <small>6.6.60 200 1.200</small>	171,900 <small>6.8.60 100 600</small>	261,036 <small>6.10.60 100 400</small>	433,023 <small>6.12.60 50 200</small>
70		191,019 <small>6.8.70 100 600</small>	292,902 <small>6.10.70 100 400</small>	499,897 <small>6.12.70 50 200</small>
80		218,345 <small>6.8.80 100 600</small>	335,506 <small>6.10.80 100 400</small>	534,906 <small>6.12.80 50 200</small>
90		233,710 <small>6.8.90 100 400</small>	369,292 <small>6.10.90 50 200</small>	573,057 <small>6.12.90 50 200</small>
100		280,156 <small>6.8.100 100 400</small>	394,785 <small>6.10.100 50 200</small>	639,932 <small>6.12.100 50 200</small>
110				674,940 <small>6.12.110 50 200</small>
120				732,298 <small>6.12.120 50 200</small>


**BULON EXAG. MB 8.8 BICROMATIZADO**

HOJA

7C

MEDIDA		M10	M12	M12	M14	M16	M18	M20
Paso - Rosca		1,25 - MC	1,25 - MC	1,50 - MB	1,50 - MB	1,50 - MB	1,50 - MB	1,50 - MB
Cabeza	Llave	17	19	19	22	24	27	30
	Altura	6,40	7,50	7,50	8,80	10,00	11,50	12,50
LARGO								
20		142,843	212,699	206,055				
		19.10.125.20	19.12.125.20	19.12.150.20				
		100 200	100 200	100 200				
25		159,453	239,27	232,63	352,220	465,166		
		19.10.125.25	19.12.125.25	19.12.150.25	19.14.150.25	19.16.150.25		
		100 200	50 100	50 100	50 100	25 50		
30		179,479	259,21	252,562	381,453	505,029	704,440	
		19.10.125.30	19.12.125.30	19.12.150.30	19.14.150.30	19.16.150.30	19.18.150.30	
		50 100	50 100	50 100	50 100	25 50	25 50	
35		192,767	285,78	279,138	412,015	558,28	770,879	
		19.10.125.35	19.12.125.35	19.12.150.35	19.14.150.35	19.16.150.35	19.18.150.35	
		50 100	50 100	50 100	50 100	25 50	25 50	
40		212,699	312,357	305,713	451,878	598,138	824,030	
		19.10.125.40	19.12.125.40	19.12.150.40	19.14.150.40	19.16.150.40	19.18.150.40	
		50 100	50 100	50 100	50 100	25 50	25 50	
45		225,987	332,289	325,645	478,45	638,002	877,276	1.129,74
		19.10.125.45	19.12.125.45	19.12.150.45	19.14.150.45	19.16.150.45	19.18.150.45	19.20.150.45
		50 100	50 100	50 100	25 50	25 50	25 50	10 20
50		245,918	358,864	352,22	518,412	691,153	943,715	1.196,28
		19.10.125.50	19.12.125.50	19.12.150.50	19.14.150.50	19.16.150.50	19.18.150.50	19.20.150.50
		50 100	50 100	50 100	25 50	25 50	25 50	10 20
55				392,08		757,59		
				19.12.150.55		19.16.150.55		
				50 100		25 50		
60		299,069	438,591	425,30	598,138	810,742	1.063,30	1.362,37
		19.10.125.60	19.12.125.60	19.12.150.60	19.14.150.60	19.16.150.60	19.18.150.60	19.20.150.60
		50 100	25 50	25 50	25 50	25 50	10 20	10 20
65				451,878	638,002	837,32	1.129,74	1.428,81
				19.12.150.65	19.14.150.65	19.16.150.65	19.18.150.65	19.20.150.65
				25 50	25 50	25 50	10 20	10 20
70		338,932	478,454	478,454	691,153	915,810	1.196,28	1.528,57
		19.10.125.70	19.12.125.70	19.12.150.70	19.14.150.70	19.16.150.70	19.18.150.70	19.20.150.70
		50 100	25 50	25 50	25 50	25 50	10 20	10 20
80		372,152	544,987	531,700	744,30	996,87	1.295,93	1.661,44
		19.10.125.80	19.12.125.80	19.12.150.80	19.14.150.80	19.16.150.80	19.18.150.80	19.20.150.80
		50 100	25 50	25 50	25 50	10 20	10 20	10 20
90		418,659	598,138	598,138	877,28	1.129,74	1.462,03	1.827,54
		19.10.125.90	19.12.125.90	19.12.150.90	19.14.150.90	19.16.150.90	19.18.150.90	19.20.150.90
		50 100	25 50	25 50	25 50	10 20	10 20	10 20
100		451,878	651,289	651,289	917,14	1.196,28	1.595,00	1.993,73
		19.10.125.100	19.12.125.100	19.12.150.100	19.14.150.100	19.16.150.100	19.18.150.100	19.20.150.100
		25 50	25 50	25 50	25 50	10 20	10 20	10 20
110		491,742	717,728	717,728	996,87	1.329,15	1.727,88	2.159,83
		19.10.125.110	19.12.125.110	19.12.150.110	19.14.150.110	19.16.150.110	19.18.150.110	19.20.150.110
		25 50	25 50	25 50	10 20	10 20	10 20	10 20
120		531,700	770,879	770,879	1.063,30	1.428,81	1.827,54	2.326,02
		19.10.125.120	19.12.125.120	19.12.150.120	19.14.150.120	19.16.150.120	19.18.150.120	19.20.150.120
		25 50	25 50	25 50	10 20	10 20	10 20	10 20
130						1.495,25	1.993,73	2.458,90
						19.16.150.130	19.18.150.130	19.20.150.130
						10 20	10 20	40 80
140						1.595,00	2.093,39	2.625,09
						19.16.150.140	19.18.150.140	19.20.150.140
						10 20	10 20	10 20
150						1.727,88	2.193,05	2.848,99
						19.16.150.150	19.18.150.150	19.20.150.150
						10 20	10 20	5 10



**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		76,855	119,906		
		341.6.16 500	341.8.16 200		
20				209,768	
				341.10.20 200	
25				214,175	
				341.10.25 100	
30		98,677		232,345	349,733
		341.6.30 500		341.10.30 100	341.12.30 100
40					415,577
					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"		88,603
		322.8.19S 1.600
1"		98,407
		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"		147,791
		322.9.19 1.200
1"		167,049
		322.9.25 800
1.1/4"		177,942
		322.9.32 800
1.1/2"		201,208
		322.9.38 800