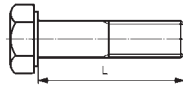


MARYLAND METRICS
P.O.Box 261 Owings Mills, MD 21117 USA
(410)358-3130 (800)638-1830 Faxes: (410)358-3142 (800)872-9329
http://mdmetric.com techinfo@mdmetric.com

TECHNICAL INFORMATION and DATA

Hex head bolts
partially threaded

Weights in kg / 100 pieces



Weights have been calculated for steel:

- Brass bolts weigh about 1,08 times these values
- Aluminium bolts weigh about 0,35 times these values
- Polyamid (nylon) bolts weigh about 0,15 times these values

ISO 4014 / DIN 931

L	M 3	M 4	M 5	M 6	M 8	M 10	M 12	M 14	M 16	M 18	M 20	M 22	M 24	M 27	M 30	M 33	M 36	M 39	M 42	M 45	M 48	L	
16	0,116	0,220																					16
18	0,127	0,240																					18
20	0,138	0,260	0,410																				20
22	0,149	0,280	0,441	0,675																			22
25	0,166	0,309	0,488	0,742																			25
28	0,182	0,339	0,534	0,808	1,560																		28
30	0,193	0,358	0,565	0,853	1,640																		30
35	0,221	0,408	0,642	0,964	1,840	3,220																	35
40	0,249	0,457	0,719	1,070	2,040	3,530	5,020																40
45	0,277	0,506	0,796	1,190	2,230	3,840	5,460	7,640	10,10														45
50	0,304	0,556	0,873	1,300	2,430	4,150	5,900	8,250	10,80	14,40													50
55		0,605	0,950	1,410	2,630	4,460	6,350	8,885	11,60	15,40	19,70												55
60		0,654	1,030	1,520	2,830	4,760	6,790	9,460	12,40	16,40	20,90	25,50											60
65		0,704	1,100	1,630	3,020	5,070	7,230	10,10	13,20	17,40	22,20	26,90	33,20										65
70		0,753	1,180	1,740	3,220	5,380	7,680	10,70	14,00	18,40	23,40	28,40	35,00	47,00									70
80		0,852	1,340	1,960	3,620	6,000	8,570	11,90	15,60	20,40	25,90	31,40	38,50	51,50	66,20								80
90			1,490	2,180	4,010	6,610	9,450	13,10	17,20	22,40	28,30	34,40	42,10	56,00	71,70	89,40	110,0						90
100			1,640	2,410	4,400	7,230	10,30	14,30	18,70	24,40	30,80	37,40	45,60	60,50	77,30	96,10	118,0	144,0					100
110				2,630	4,800	7,850	11,20	15,50	20,30	26,40	33,30	40,40	49,20	65,00	82,80	103,0	126,0	154,0	181,0	215,0			110
120				2,850	5,190	8,460	12,10	16,70	21,90	28,40	35,70	43,40	52,70	69,50	88,40	110,0	134,0	163,0	192,0	227,0	265,0		120
130				3,040	5,540	9,010	12,90	17,80	23,30	30,20	38,00	46,10	56,00	73,60	93,40	116,0	141,0	172,0	202,0	239,0	278,0		130
140				3,270	5,940	9,630	13,80	19,00	24,90	32,20	40,40	49,10	59,50	78,10	99,00	122,0	149,0	181,0	212,0	251,0	293,0		140
150				3,490	6,330	10,20	14,70	20,20	26,50	34,20	42,90	52,10	63,10	82,60	105,0	129,0	157,0	191,0	223,0	264,0	307,0		150
160					6,730	10,90	15,60	21,40	28,10	36,20	45,40	55,00	66,60	87,10	110,0	136,0	165,0	200,0	234,0	276,0	321,0		160
170					7,120	11,50	16,50	22,60	29,60	38,20	47,80	58,00	70,20	91,50	116,0	143,0	173,0	209,0	245,0	289,0	335,0		170
180					7,520	12,10	17,30	23,80	31,20	40,20	50,30	61,00	73,70	96,00	121,0	149,0	181,0	219,0	256,0	301,0	349,0		180
190					7,910	12,70	18,20	25,00	32,80	42,20	52,80	64,00	77,30	101,0	127,0	156,0	189,0	228,0	267,0	314,0	364,0		190
200					8,300	13,30	19,10	26,20	34,40	44,20	55,20	67,00	80,80	105,0	132,0	163,0	197,0	237,0	278,0	326,0	378,0		200