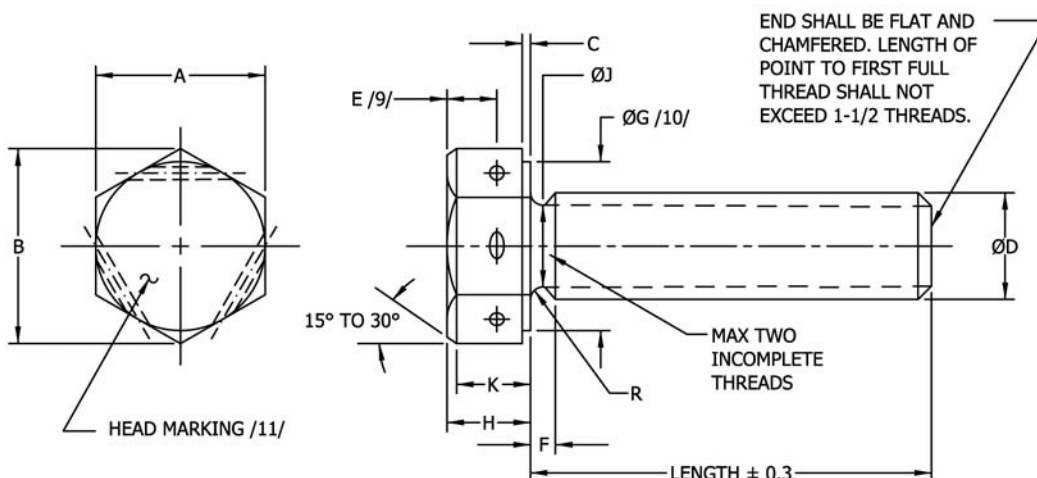


AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC.
11000 WILSON BLVD.
ARLINGTON, VA 22209

THIS DRAWING SUPERSEDES ALL ANTECEDENT STANDARD DRAWINGS FOR THE SAME PRODUCT AND SHALL BECOME EFFECTIVE NO LATER THAN SIX MONTHS FROM THE LAST REVISION DATE.

FORM 12-01



FED. SUPPLY CLASS

5306

TABLE I – DIMENSIONS

ØD NOMINAL BOLT AND THREAD PITCH	A WIDTH ACROSS FLATS		B WIDTH ACROSS CORNERS		C WASHER FACE THICKNESS	F UNDER CUT LENGTH	ØG WASHER FACE	H HEAD HEIGHT		ØJ UNDERCUT		R RADIUS OF FILLET	K WRENCHING HEIGHT
	MAX	MIN	MAX	MIN	MAX	MAX	MIN	MAX	MIN	MAX	MIN	MIN	MIN
M5 x 0,8	8,00	7,64	9,24	8,63	0,4	2,4	7,2	3,88	3,35	3,09	3,00	0,2	2,4
M6 x 1	10,00	9,64	11,55	10,89	0,4	3,0	9,1	4,38	3,85	5,32	5,21	0,3	2,8
M8 x 1	13,00	12,57	15,01	14,20	0,4	3,0	11,9	5,68	5,10	7,32	7,21	0,4	3,7
M10 x 1,25	16,00	15,57	18,48	17,59	0,4	4,0	14,7	6,85	6,17	9,16	9,04	0,4	4,5
M12 x 1,25	18,00	17,57	20,78	19,85	0,4	4,0	16,6	7,95	7,24	11,16	11,03	0,6	5,2
M14 x 1,5	21,00	20,16	24,25	22,78	0,4	4,5	19,1	9,25	8,51	12,99	12,85	0,6	6,2
M16 x 1,5	24,00	23,16	27,71	26,17	0,4	4,5	22,0	10,75	9,68	14,99	14,85	0,6	7,0
M20 x 1,5	30,00	29,16	34,64	32,95	0,4	4,5	27,7	13,40	12,12	18,99	18,85	0,8	8,8
M24 x 2	36,00	35,00	41,57	39,55	0,5	6,0	33,2	15,90	14,56	22,66	22,49	0,8	10,5
M30 x 2	46,00	45,00	53,12	50,55	0,5	6,0	42,7	19,75	17,92	28,66	28,49	1,0	13,1
M36 x 2	55,00	53,80	63,51	60,79	0,5	6,0	51,1	23,55	21,62	34,66	34,49	1,0	15,8
M42 x 2	65,00	62,90	75,06	71,71	0,6	6,0	59,7	27,05	25,03	40,66	40,49	1,2	18,2
M48 x 2	75,00	72,60	86,60	82,76	0,6	6,0	68,0	31,07	28,93	46,66	46,48	1,5	21,0
M56 x 2	85,00	82,20	98,15	93,71	0,6	6,0	78,0	36,20	33,80	54,66	54,48	2,0	24,5
M64 x 2	95,00	91,80	109,70	104,65	0,7	6,0	87,2	41,32	38,68	62,66	62,48	2,0	28,0
M72 x 2	105,00	101,40	121,24	115,60	0,7	6,0	96,3	46,45	43,55	70,66	70,48	2,0	31,5
M80 x 2	115,00	111,00	132,79	126,54	0,8	6,0	105,4	51,58	48,42	78,66	78,48	2,0	35,0
M90 x 2	130,00	125,50	150,11	143,07	0,8	6,0	119,2	57,74	54,26	88,66	88,48	2,0	39,2
M100 x 2	145,00	140,00	167,43	159,60	0,8	6,0	133,0	63,90	60,10	98,66	98,47	2,5	43,4
M10 x 1.25 / 2	15,00	14,57	17,32	16,46	0,4	4,0	13,6	6,85	6,17	9,16	9,04	0,4	4,5

REVISION DATE: APRIL 30, 2015

ISSUE DATE: SEPTEMBER 1999

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES DS51417. PART NUMBERS REMAIN DS51417.

THIRD ANGLE PROJECTION 	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 3
PROCUREMENT SPECIFICATION ASME B18.2.3.5M	TITLE BOLT, MACHINE, HEX HEAD, FULLY THREADED, FINE THREAD, METRIC	CLASSIFICATION PART STANDARD NAM51417 SHEET 1 OF 3

MATERIAL:

STEEL, PROPERTY CLASS 10.9, IN ACCORDANCE WITH ASME B18.2.3.5M. (3)

FINISH:

CADMIUM PLATE IN ACCORDANCE WITH AMS-QQ-P-416, TYPE II, CLASS 3 (5,1 µm THICK).

CODE:

THE BASIC PART NUMBER IS FOLLOWED BY A FINISH CODE LETTER ("A" – CADMIUM PLATE), FOLLOWED BY A FIVE DIGIT NUMBER INDICATING DIAMETER AND THREAD PITCH AND LENGTH (TABLE II), FOLLOWED BY THE LETTER "D" IF A DRILLED HEAD IS REQUIRED, FOLLOWED BY THE LETTER "F" IF THE 15 mm HEX WIDTH ACROSS FLATS IS REQUIRED FOR THE M10 DIAMETER SIZE.

EXAMPLE OF PART NUMBER:

DS51417 A 05008 D = BOLT, MACHINE, HEX HEAD, FULLY THREADED, FINE THREAD, METRIC, M5 x 0,8
DIAMETER AND THREAD PITCH, 8 mm LENGTH, CADMIUM PLATED WITH DRILLED
HEAD.

DRILLED HEAD

DIAMETER AND THREAD PITCH AND LENGTH

FINISH (CADMIUM PLATE)

BASIC PART NUMBER

NOTES:

- (1) DIMENSIONS IN MILLIMETERS AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- /2/ THIS SIZE IS NOT AN ISO STANDARD. UNLESS M10 BOLTS WITH 15 mm WIDTH ACROSS FLATS ARE SPECIFICALLY ORDERED, M10 BOLTS WITH 16 mm WIDTH ACROSS FLATS SHALL BE FURNISHED.
- (3) UNLESS OTHERWISE SPECIFIED HEREIN, REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF MANUFACTURE. HOWEVER, EXISTING MATERIAL INVENTORY CERTIFIED TO A PREVIOUS REVISION OF THE APPLICABLE MATERIAL SPECIFICATION(S) IS ACCEPTABLE FOR USE UNTIL DEPLETION.
- (4) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (5) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- (6) THREADS: STANDARD FINE PITCH M PROFILE TOLERANCE CLASS 6g, IN ACCORDANCE WITH FED-STD-H28/21. ACCEPTABILITY OF SCREW THREADS SHALL BE IN ACCORDANCE WITH FED-STD-H28/20, SYSTEM 21.
- (7) QUALITY ASSURANCE PROVISIONS IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.
- /8/ PACKAGING IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.

REVISION

3

NAM51417

SHEET 2



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