

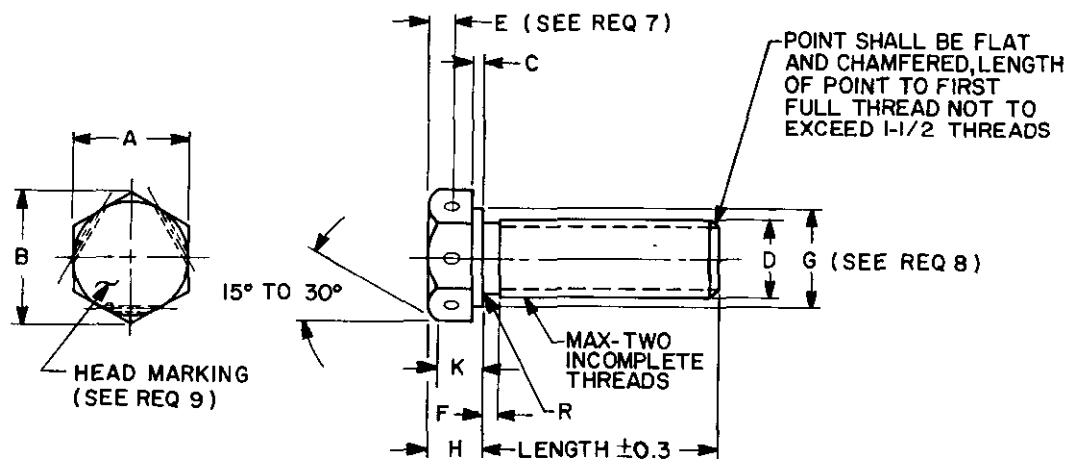
FED. SUP CLASS  
5305User: ARMY  
Review activities: ARMY-AV, EA  
DLA-1S

TABLE I. DIMENSIONS.

NOMINAL SCREW DIA AND THD PITCH D	WIDTH ACROSS FLATS A		WIDTH ACROSS CORNERS B		WASHER FACE THICKNESS C		FILLET LENGTH F	WASHER FACE DIA G	HEAD HEIGHT H		RADIUS OF FILLET R	WRENCH- ING HEIGHT K
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MIN	MIN
M3X0.5	5.50	5.32	6.35	6.07	0.4	0.2	1.0	4.6	2.12	1.88	0.1	1.3
M4X0.7	7.00	6.78	8.08	7.66	0.4	0.2	1.2	5.9	2.92	2.68	0.2	1.9
M5X0.8	8.00	7.78	9.24	8.79	0.5	0.2	1.2	6.9	3.65	3.35	0.2	2.4
M6X1	10.00	9.78	11.55	11.05	0.5	0.2	1.4	8.9	4.15	3.85	0.3	2.8
M8X1.25	13.00	12.73	15.01	14.38	0.6	0.3	2.0	11.6	5.50	5.10	0.4	3.7
M10X1.5	16.00	15.73	18.48	17.77	0.6	0.3	2.0	14.6	6.63	6.17	0.4	4.5
M12X1.75	18.00	17.73	20.78	20.03	0.6	0.3	3.0	16.6	7.76	7.24	0.6	5.2
M16X2	24.00	23.67	27.71	26.75	0.8	0.4	3.0	22.5	10.32	9.68	0.6	7.0
M20X2.5	30.00	29.16	34.64	32.95	0.8	0.4	4.0	28.2	12.88	12.12	0.8	8.8
M24X3	36.00	35.00	41.57	39.55	0.8	0.4	4.0	33.6	15.44	14.56	0.8	10.5
M30X3.5	46.00	45.00	53.12	50.85	0.8	0.4	6.0	42.7	19.48	17.92	1.0	13.1
M36X4	55.00	53.80	63.51	60.79	0.8	0.4	6.0	51.1	23.38	21.62	1.0	15.8
* M10X1.5	15.00	14.73	17.32	16.64	0.6	0.3	2.0	13.6	6.63	6.17	0.4	4.5

\* SEE NOTE 2.

METRIC

APPROVED 12 AUG 83 REVISED

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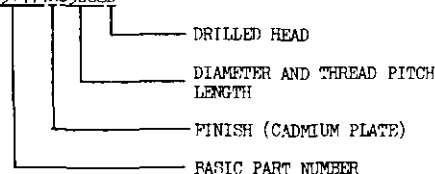
P. A. AR Other Cust.	International interest	TITLE  SCREW, CAP, HEX HEAD, FULLY THREADED-METRIC	MILITARY STANDARD DS51474(AR)
PROCUREMENT SPECIFICATION ANSI B18.2.3.1M-1979		SUPERSEDES:	PAGE 1 OF 3

User activities:  
ARMY - MEReview activities:  
ARMY - AV, EA  
DLA - ISFED. SUP CLASS  
5305

## REQUIREMENTS:

1. MATERIAL. STEEL, PROPERTY CLASS 10.9, IN ACCORDANCE WITH ANSI B18.2.3.1M-1979.
2. FINISH. CADMIUM PLATE IN ACCORDANCE WITH QQ-P-416, TYPE II, CLASS 3 (5.1  $\mu$ m THICK).
3. THREADS. STANDARD COARSE 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.
4. PART NUMBER. THE BASIC PART NUMBER IS FOLLOWED BY A FINISH CODE LETTER ("A" CADMIUM PLATE), FOLLOWED BY A FIVE DIGIT NUMBER TAKEN FROM TABLE II INDICATING DIAMETER AND THREAD PITCH AND LENGTH, FOLLOWED BY THE LETTER "D" IF A DRILLED HEAD IS REQUIRED, FOLLOWED BY THE LETTER "F" IF THE 15 mm WIDTH ACROSS FLATS IS REQUIRED FOR THE M10 DIAMETER SIZE.

EXAMPLE: DS51474A0500BD



DS51474A0500BD INDICATES SCREW, CAP, HEX HEAD, FULLY THREADED METRIC, M5X0.8 DIAMETER AND THREAD PITCH, 8 mm LENGTH, CADMIUM PLATED WITH DRILLED HEAD.

5. QUALITY ASSURANCE. QUALITY ASSURANCE PROVISIONS IN ACCORDANCE WITH PROCUREMENT SPECIFICATIONS.
6. PACKAGING. PACKAGING IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.
7. 3 AND 4 mm DIAMETER SCREWS SHALL HAVE NO LOCKWIRE HOLES. "E" DIMENSION SHALL BE 1/2 OF "H" DIMENSION. WHEN SPECIFIED, DRILL HEAD HOLES AS FOLLOWS:  
 FOR 5 mm DIAMETER - DRILL THREE HOLES COUNTERSUNK 90° X 1 mm MINIMUM DIAMETER, WITHIN 0.3 mm OF CENTER OF HEX FLATS.  
 FOR 6 AND 8 mm DIAMETERS - DRILL THREE HOLES COUNTERSUNK 90° X 1.4 mm MINIMUM DIAMETER, WITHIN 0.3 mm OF CENTER OF HEX FLATS.  
 FOR 10 mm DIAMETER AND LARGER - DRILL THREE HOLES COUNTERSUNK 90° X 1.6 mm MINIMUM DIAMETER, WITHIN 0.3 mm OF CENTER OF HEX FLATS.
8. MAXIMUM DIAMETER OF WASHER FACE SHALL NOT EXCEED WIDTH ACROSS FLATS OF HEX HEAD OR BE LESS THAN THE "G" VALUES LISTED IN TABLE I.
9. HEAD MARKINGS. HEAD MARKINGS IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.

## NOTES:

1. DIMENSIONS. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS.
2. THIS SIZE IS NOT AN ISO STANDARD. UNLESS M10 SCREWS WITH 15 mm WIDTH ACROSS FLATS ARE SPECIFICALLY ORDERED, M10 SCREWS WITH 16 mm WIDTH ACROSS FLATS SHALL BE FURNISHED.
3. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON THE DATE OF INVITATIONS FOR BIDS, OR REQUEST FOR PROPOSAL, EXCEPT THAT REFERENCED ADOPTED INDUSTRY DOCUMENTS SHALL GIVE THE DATE OF THE ISSUE ADOPTED.
4. FOR DESIGN FEATURE PURPOSES THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.

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PROCUREMENT SPECIFICATION ANSI B18.2.3.1M-1979		SUPERSEDES:	PAGE 2 OF 3

User action:  
ARMY-MEReview activities:  
ARMY-AV, EA  
DLA-IS

TABLE II. DASH NUMBERS.

LENGTH +0.3 --	NOMINAL SCREW DIAMETER AND THREAD PITCH											
	M3X0.5	M4X0.7	M5X0.8	M6X1	M8X1.25	M10X1.5	M12X1.75	M16X2	M20X2.5	M24X3	M30X3.5	M36X4
5	03005											
6	03006	04006										
8	03008	04008	05008									
10	03010	04010	05010	06010								
12	03012	04012	05012	06012								
14	03014	04014	05014	06014	08014							
16	03016	04016	05016	06016	08016	10016						
20	03020	04020	05020	06020	08020	10020	12020					
25	03025	04025	05025	06025	08025	10025	12025	16025				
30	03030	04030	05030	06030	08030	10030	12030	16030	20030			
35		04035	05035	06035	08035	10035	12035	16035	20035	24035		
40		04040	05040	06040	08040	10040	12040	16040	20040	24040	30040	
45			05045	06045	08045	10045	12045	16045	20045	24045	30045	
50			05050	06050	08050	10050	12050	16050	20050	24050	30050	36050
60				06060	08060	10060	12060	16060	20060	24060	30060	36060
70					08070	10070	12070	16070	20070	24070	30070	36070
80					08080	10080	12080	16080	20080	24080	30080	36080
90						10090	12090	16090	20090	24090	30090	36090
100						10100	12100	16100	20100	24100	30100	36100
110							12110	16110	20110	24110	30110	36110
120							12120	16120	20120	24120	30120	36120
130								16130	20130	24130	30130	36130
140								16140	20140	24140	30140	36140
150								16150	20150	24150	30150	36150
160								16160	20160	24160	30160	36160
180									20180	24180	30180	36180
200									20200	24200	30200	36200

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