

① COMPLETELY REVISED

FED. SUPPLY CLASS
5305

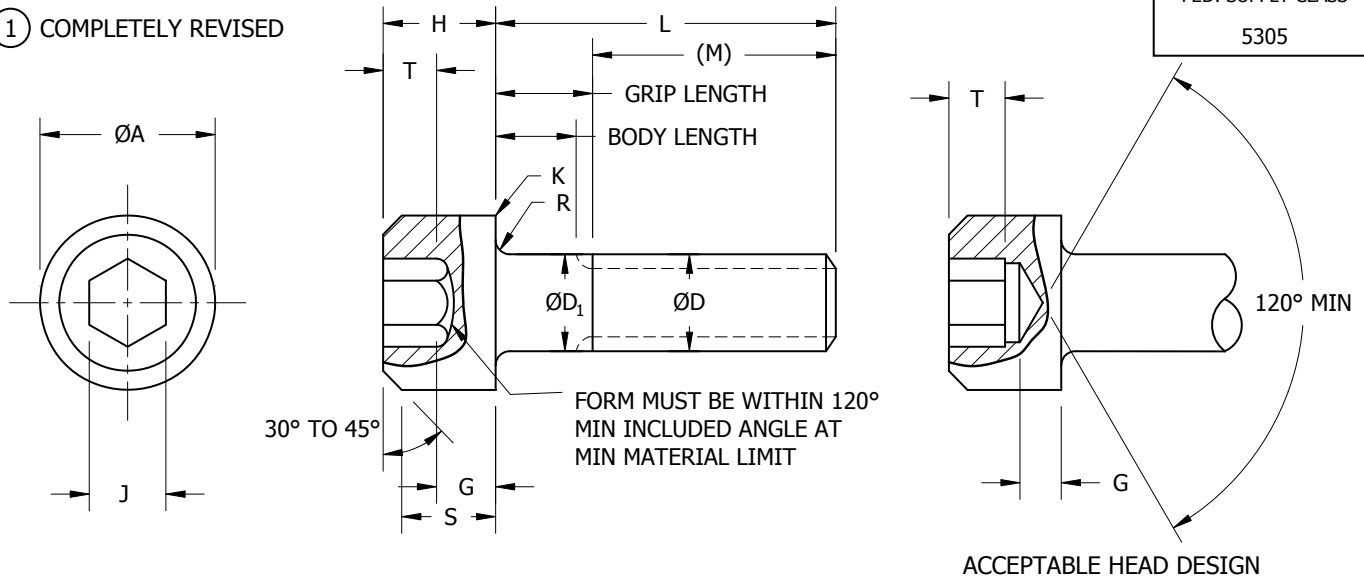


TABLE I – DIMENSIONS AND DASH NUMBERS

ØD NOM SIZE	THREADS PER INCH UNF-3A	ØD ₁ BODY		ØA HEAD		H HEAD HEIGHT		S HEAD SIDE HEIGHT	J SOCKET WIDTH ACROSS FLATS		T KEY ENGAGEMENT	G WALL THKNS	K CHAMFER OR RADIUS	R FILLET RADIUS		(M) BASIC THREAD LENGTH /2/	MIN TENSILE STRENGTH LOAD LBF /5/
		MAX	MIN	MAX	MIN	MAX	MIN	MIN	MAX	MIN	MIN	MIN	MAX	MAX	MIN		
#0 .0600	80	.0600	.0568	.096	.091	.060	.057	.054	.0510	.0500	.025	.020	.003	.007	.003	.500	140
#10 .1900	32	.1900	.1840	.313	.303	.190	.185	.171	.1587	.1562	.090	.065	.005	.014	.009	.875	1,600
1/4 .2500	28	.2500	.2435	.375	.365	.250	.244	.225	.1900	.1875	.120	.095	.008	.014	.009	1.000	2,910
5/16 .3125	24	.3125	.3053	.469	.457	.313	.306	.281	.2530	.2500	.151	.119	.008	.017	.015	1.125	4,640
3/8 .3750	24	.3750	.3678	.563	.550	.375	.368	.337	.3160	.3125	.182	.143	.008	.020	.015	1.250	7,020

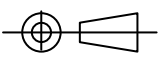
MATERIAL:

CRES, TYPES 302 (UNS S30200), 303 (UNS S30300), 304 (UNS S30400), 302HQ (UNS S30430), 305 (UNS S30500), AND 316 (UNS S31600), IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.

FINISH:

SCREWS SHALL BE CLEANED, DESCALED AND PASSIVATED IN ACCORDANCE WITH AMS2700, METHOD 1, CLASS 4.
WHEN SPECIFIED, SCREWS SHALL BE BLACK OXIDE COATED IN ACCORDANCE WITH MIL-DTL-13924, CLASS 4. (WHEN BLACK OXIDE COATING IS REQUIRED, THE DASH NUMBER SHALL BE FOLLOWED BY A CODE LETTER "B").

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS16996, REVISION F. PART NUMBERS REMAIN MS16996.

THIRD ANGLE PROJECTION 	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE		REVISION 1
	TITLE SCREW, CAP, SOCKET HEAD, HEXAGON, CRES, UNF-3A		CLASSIFICATION PART STANDARD MSM16996 SHEET 1 OF 3

CODE:

THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER, FOLLOWED BY A DASH NUMBER FROM TABLE II AND A CODE LETTER "B" FOR BLACK OXIDE, IF APPLICABLE.

EXAMPLE OF PART NUMBER:

MS16996-1 B = SCREW, CAP, SOCKET HEAD, HEXAGON, CRES, .0600-80 UNF-3A NOMINAL
THREAD SIZE, .125 LENGTH, BLACK OXIDE COATING

BLACK OXIDE COATING

DASH NUMBER

BASIC PART NUMBER

NOTES:

- (1) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- /2/ THE BASIC THREAD LENGTH "(M)" (TABLE I) IS A REFERENCED VALUE CONTROLLED BY THE GRIP LENGTH AND "L" LENGTH AS SPECIFIED.
- (3) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (4) 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.
- /5/ BASED ON 80 KSI MINIMUM TENSILE STRENGTH, LOAD POUNDS-FORCE ARE CALCULATED BY THE AREAS IN ACCORDANCE WITH FED-STD-H28/2.
- (6) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- (7) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
- (8) MAGNETIC PERMEABILITY SHALL BE LESS THAN 2.0 (AIR = 1.0) FOR A FIELD STRENGTH H = 200 OERSTEDS USING A MAGNETIC PERMEABILITY INDICATOR PER ASTM A342/A342M, TEST METHOD 3.
- (9) THREADS SHALL BE IN ACCORDANCE WITH FED-STD-H28/2. ACCEPTABILITY OF SCREW THREADS SHALL BE IN ACCORDANCE WITH FED-STD-H28/20, SYSTEM 22. ACCEPTABILITY OF SCREW THREADS FOR SIZES .0600 (#0) AND .1900 (#10) SHALL BE IN ACCORDANCE WITH FED-STD-H28/20, SYSTEM 21. SCREWS ABOVE DASHED LINE (TABLE II) SHALL HAVE COMPLETE (FULL FORM) THREADS EXTENDING TO WITHIN TWO THREADS OF THE HEAD.
- (10) HEAD STYLE: HEAD OF SCREW MAY BE KNURLED OR NOT KNURLED AT THE OPTION OF THE MANUFACTURER. TYPE OF KNURLING OPTIONAL.

REVISION
1
NASM16996
SHEET 2

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