

FED. SUPPLY CLASS

5305

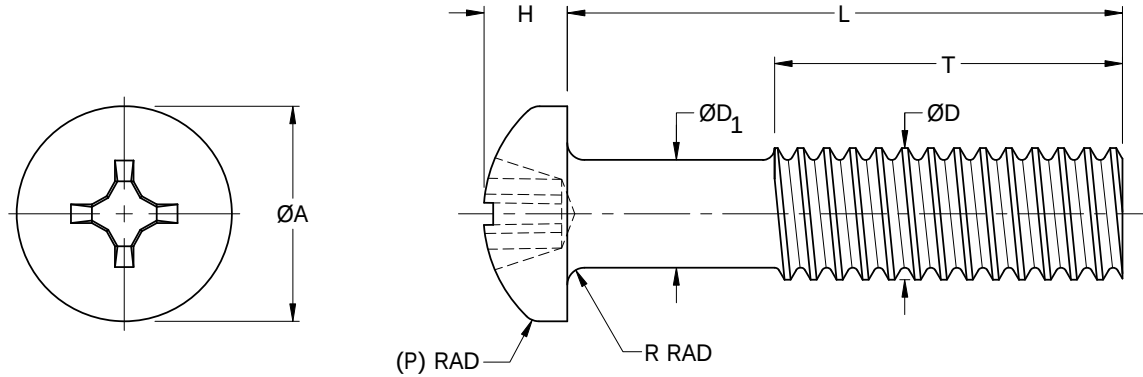


TABLE I – DASH NUMBERS AND DIMENSIONS

ØD	NOMINAL SIZE		#4	#6	#8	#10	1/4	5/16
			.1120	.1380	.1640	.1900	.2500	.3125
	THREADS PER INCH (UNC-2A)		40	32	32	24	20	18
ØD ₁	RELIEF	MAX	.088	.106	.124	.143	.185	.229
		MIN	.078	.096	.114	.133	.175	.219
ØA	HEAD	MAX	.219	.270	.322	.373	.492	.615
		MIN	.205	.256	.306	.357	.473	.594
H	HEAD HEIGHT	MAX	.080	.097	.115	.133	.175	.218
		MIN	.070	.087	.105	.122	.162	.203
(P)	HEAD RADIUS		.010	.015	.015	.020	.035	.040
R	FILLET RADIUS	MAX	.017	.021	.025	.029	.038	.047
T	THREAD LENGTH	MAX	.196	.242	.287	.333	.438	.547
		MIN	.176	.222	.267	.312	.417	.527
L	LENGTH	TOLERANCE	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
3/8	(.375)	+.000 -.031	1	–	–	–	–	–
7/16	(.438)		2	8	–	–	–	–
1/2	(.500)		3	9	–	–	–	–
5/8	(.625)		4	10	14	–	–	–
3/4	(.750)		5	11	15	19	24	–
7/8	(.875)		6	12	16	20	25	29
1	(1.000)	+.000 -.062	7	13	17	21	29	30
1 1/4	(1.250)		–	–	18	22	27	31
1 1/2	(1.500)		–	–	–	23	28	32

② COMPLETELY REVISED

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS51896, REV A, AMENDMENT 1. PART NUMBERS REMAIN MS51896.

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 2
PROCUREMENT SPECIFICATION FF-S-92	TITLE SCREW, EXTERNALLY RELIEVED BODY, PAN HEAD, CRUCIFORM RECESS, CRES, UNC-2A	CLASSIFICATION PART STANDARD



NAS
NATIONAL AEROSPACE STANDARDS

SHEET 1 OF 2

Document Sharing Hub

MATERIAL:

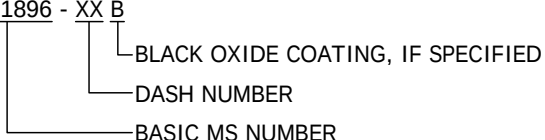
CRES – 300 SERIES AS SPECIFIED IN AMS-QQ-S-763 AND IN ACCORDANCE WITH ~~AMS-STD-66~~ AIR4127, AND SHALL ALSO BE EQUAL TO OR INTERCHANGEABLE WITH 16:18 OR 18:8 CHROME-NICKEL ALLOY STEEL.

FINISH:

BLACK OXIDE COATING IN ACCORDANCE WITH MIL-DTL-13924, CLASS 4, IF SPECIFIED.
PASSIVATION PER AMS2700, METHOD 1, CLASS 4.

CODE:

THE PART NUMBER CONSISTS OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER TAKEN FROM TABLE I. THE LETTER "B" FOR BLACK OXIDE COATING SHALL BE ADDED, IF SPECIFIED.

MS51896 - XX B


EXAMPLE OF PART NUMBER:

MS51896-1 = SCREW, EXTERNALLY RELIEVED BODY, PAN HEAD, CROSS RECESSED, CRES, PASSIVATED, NOM. SIZE .1120-40 UNC-2A, LENGTH .375.

MS51896-1B = SCREW, EXTERNALLY RELIEVED BODY, PAN HEAD, CROSS RECESSED, CRES, BLACK OXIDE COATED, NOM. SIZE .1120-40 UNC-2A, LENGTH .375.

NOTES:

- (1) THREADS SHALL BE IN ACCORDANCE WITH FED-STD-H28/2. ACCEPTABILITY OF SCREW THREADS SHALL BE IN ACCORDANCE WITH FED-STD-H28/20, SYSTEM 21.
- (2) 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.
- (3) THE SCREW RECESS SHALL BE IN ACCORDANCE WITH NASM9006.
- (4) ALL DIMENSIONS ARE IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (5) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (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) 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.
- (8) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.

REVISION

2

NASM51896

SHEET 2

② COMPLETELY REVISED