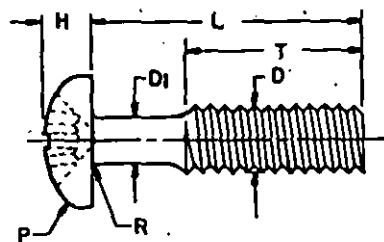
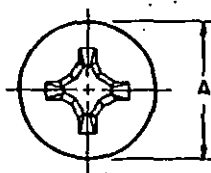


USER ACTIVITIES  
ARMY-AT,ME,MI  
NAVY-OS

REVIEWER ACTIVITIES  
ARMY-AV,EA  
AIR FORCE-82  
DLA-15

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.



FED. SUP CLASS  
5305

TABLE I. DASH NUMBERS AND DIMENSIONS.

D NOMINAL SIZE		#4	#6	#8	#10	1/4	5/16
THREADS PER INCH		40UNC-2A	32UNC-2A	32UNC-2A	24UNC-2A	20UNC-2A	18UNC-2A
D <sub>1</sub> RELIEF DIAMETER	MAX	.088	.106	.124	.143	.185	.229
	MIN	.078	.096	.114	.133	.175	.219
A HEAD DIAMETER	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	MIN	.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 (0.375)	+.000 -.031	1	--	--	--	--	--
7/16 (0.438)		2	8	--	--	--	--
1/2 (0.500)		3	9	--	--	--	--
5/8 (0.625)		4	10	14	--	--	--
3/4 (0.750)		5	11	15	19	24	--
7/8 (0.875)		6	12	16	20	25	29
1 (1.000)		7	13	17	21	26	30
1-1/4 (1.250)	+.000 -.062	--	--	18	22	27	31
1-1/2 (1.500)		--	--	--	23	28	32

REQUIREMENTS:

1. MATERIAL. STEEL, CORROSION-RESISTANT, 300 SERIES, AS SPECIFIED IN QQ-S-763 AND IN ACCORDANCE WITH FED-STD-66. STEEL, CORROSION-RESISTANT, 300 SERIES SHALL ALSO BE EQUAL TO OR INTERCHANGEABLE WITH 16-18 OR 18-8 CHROME-NICKEL ALLOY STEEL.
2. FINISH. THE SCREWS SHALL BE BLACK OXIDE COATED IN ACCORDANCE WITH MIL-C-13924, CLASS 4, IF SPECIFIED, (SEE REQ. 7).
3. CLEANING AND DESCALING. THE SCREWS SHALL BE CLEANED, DESCALED, AND PASSIVATED IN ACCORDANCE WITH ASTM A 380-78.
4. THREADS. THREADS SHALL BE IN ACCORDANCE WITH FED-STD-H2R/2. ACCEPTABILITY OF SCREW THREADS SHALL BE IN ACCORDANCE WITH FED-STD-H2R/20, SYSTEM 21.
5. MAGNETIC PERMEABILITY. THE SCREWS SHALL HAVE A MAGNETIC PERMEABILITY OF 2.0 MAXIMUM (AIR=1.0) FOR A FIELD STRENGTH OF 10-200 OERSTEDS USING A MAGNETIC INDICATOR IN ACCORDANCE WITH MIL-I-17124.
6. RECESSES. THE SCREW RECESSES SHALL BE IN ACCORDANCE WITH MS9006.
7. PART NUMBER. THE PART NUMBER CONSISTS OF THE BASIC MS SHEET NUMBER FOLLOWED BY A DASH NUMBER TAKEN FROM TABLE I. THE LETTER "B" FOR BLACK OXIDE COATING SHALL BE ADDED, IF SPECIFIED.

EXAMPLE: MS51896-1  
DASH NUMBER  
BASIC MS SHEET NUMBER

MS51896-1 = SCREW, EXTERNALLY RELIEVED BODY, PAN HEAD, CROSS-RECESSED, CRPS,  
NOM. SIZE .1120-40UNC-2A, LENGTH 0.375.

NOTES:

1. DIMENSIONS. ALL DIMENSIONS ARE IN INCHES.
2. 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.
3. FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.

(A) DENOTES CHANGES

P.A.	AR	INTERNATIONAL INTEREST	TITLE	MILITARY STANDARD
Other Cost	AS 99		SCREW, EXTERNALLY RELIEVED BODY, PAN-HEAD, CROSS-RECESSED, CORROSION-RESISTING STEEL, UNC-2A	MS51896
PROCUREMENT SPECIFICATION	SUPERSEDED		PAGE	OF
FF-S-92			1	1