

FED. SUPPLY CLASS

5305

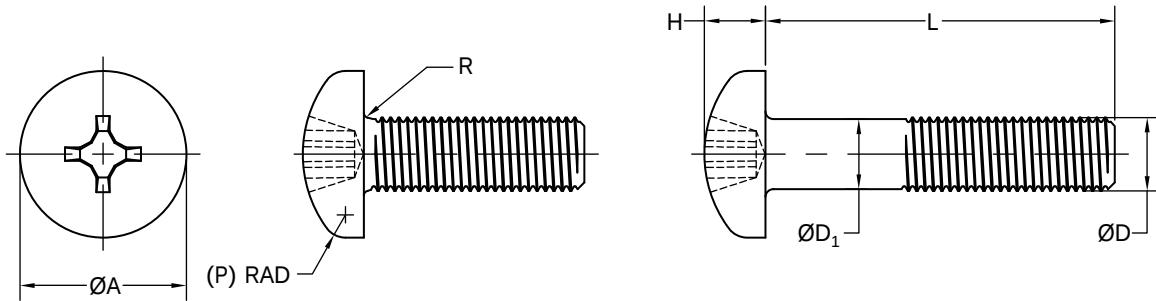


TABLE I – DIMENSIONS AND DASH NUMBERS

ØD NOMINAL SIZE			.060	.086	.112	.138	.164	.190	.250	.3125	.375
THREADS PER INCH - UNF-2A			80	64	48	40	36	32	28	24	24
ØD ₁ BODY DIAMETER	MAX		.0600	.0860	.1120	.1380	.1640	.1900	.2500	.3125	.3750
	MIN		.0496	.0733	.0954	.1184	.1424	.1658	.2225	.2806	.3430
ØA HEAD DIAMETER	MAX		.116	.167	.219	.270	.322	.373	.492	.615	.740
	MIN		.104	.155	.205	.256	.306	.357	.473	.594	.716
H HEAD HEIGHT	MAX		.044	.062	.080	.097	.115	.133	.175	.218	.261
	MIN		.036	.053	.070	.087	.105	.122	.162	.203	.244
(P) HEAD RADIUS			.005	.010	.010	.015	.015	.020	.035	.040	.040
R FILLET RADIUS			MAX	.009	.013	.017	.021	.025	.029	.038	.047
DRIVER SIZE				0	1	1	2	2	2	3	4
MINIMUM TENSILE STRENGTH LBF /5/				140	310	530	810	1,180	1,600	2,910	4,640
L	LENGTH	TOL	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
THREADED TO WITHIN A DISTANCE OF NOT LESS THAN 2 THREADS OF THE BEARING SURFACE OF THE HEAD	.125	+.000 -.031	120	1	11	24	39	58 /4/	76	92	107
	.188		121	2	12	25	40				
	.250		122	3	13	26	41	59			
	.313		123	4	14	27	42	60			
	.375		124	5	15	28	43	61	77		
	.438		125	6	16	29	44	62	78	93	
	.500		126	7	17	30	45	63	79	94	107
	.625			8	18	31	46	64	80	95	108
	.750			9	19	32	47	65	81	96	109
	.875			10 /4/		20	33	48	66	82	97
	1.000					21	34	49	67	83	98
	1.250	+.000 -.063			22 /4/	35	50	68	84	99	112
	1.500				23 /4/	36	51	69	85	100	113
	1.750					37	52	70	86	101	114
	2.000					38	53	71	87	102	115
MINIMUM COMPLETE THREAD LENGTH OF 1.750	2.250	+.000 -.094					54 /4/	72	88	103	116
	2.500						55 /4/	73	89	104	117
	2.750						56 /4/	74 /4/	90 /4/	105 /4/	118
	3.000						57 /4/	75 /4/	91 /4/	106 /4/	119

② COMPLETELY REVISED

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS51958, REVISION C, AMENDMENT 1. PART NUMBERS REMAIN MS51958.

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 2	
		CLASSIFICATION PART STANDARD	
PROCUREMENT SPECIFICATION FF-S-92	TITLE SCREW, MACHINE, PAN HEAD, CRUCIFORM RECESS, CORROSION RESISTING STEEL, UNF-2A		MS51958

MATERIAL:

STEEL, CORROSION-RESISTING, 300 SERIES AS SPECIFIED IN AMS-QQ-S-763 ~~AND AMS-STD-66~~ OR AIR4127, COMPOSITION 304 OR 316 OR EQUAL TO OR INTERCHANGEABLE WITH 16-18 OR 18-8 CHROMIUM-NICKEL ALLOY STEEL.

FINISH:

PASSIVATE IN ACCORDANCE WITH AMS2700, METHOD 1, TYPE 6 OR TYPE 7, CLASS 1, EXCEPT 303 CRES SHALL USE TYPE 2.
BLACK OXIDE COATING IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.

CODE:

WHEN BLACK OXIDE COATING IS REQUIRED, THE DASH NUMBER SHALL BE FOLLOWED BY A "B".

EXAMPLE OF PART NUMBER:

THE PART NUMBER CONSISTS OF THE MS NUMBER PLUS THE DASH NUMBER AND CODE LETTER IF APPLICABLE (SEE CODE).

MS51958-45 = SCREW, MACHINE, PAN HEAD, CRUCIFORM RECESS, CRES, PASSIVATED,
.164-36 UNF-2A, .500 LONG.
MS51958-45B = SCREW, MACHINE, PAN HEAD, CRUCIFORM RECESS, CRES, BLACK OXIDE COATED,
.164-36 UNF-2A, .500 LONG.

NOTES:

- (1) DIMENSIONS IN INCHES.
- (2) 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.
- (3) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- /4/ MANUFACTURER'S NON-STOCK PRODUCTION ITEMS.
- /5/ TENSILE STRENGTH IS BASED ON 80,000 PSI MINIMUM TENSILE STRENGTH. POUNDS FORCE ARE CALCULATED BY THE STRESS AREAS INDICATED IN 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) DIMENSIONS APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (8) REMOVE ALL BURRS AND SHARP EDGES.
- (9) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
- (10) MAGNETIC PERMEABILITY: THE SCREW SHALL MEET THE MAGNETIC PERMEABILITY REQUIREMENTS OF THE PROCUREMENT SPECIFICATION.
- (11) THREADS: THREADS SHALL BE IN ACCORDANCE WITH FED-STD-H28/2.
- (12) RECESS: THE RECESS SHALL BE IN ACCORDANCE WITH NASM9006.

REVISION
2
NASM51958
SHEET 2

② COMPLETELY REVISED



Document Sharing Hub