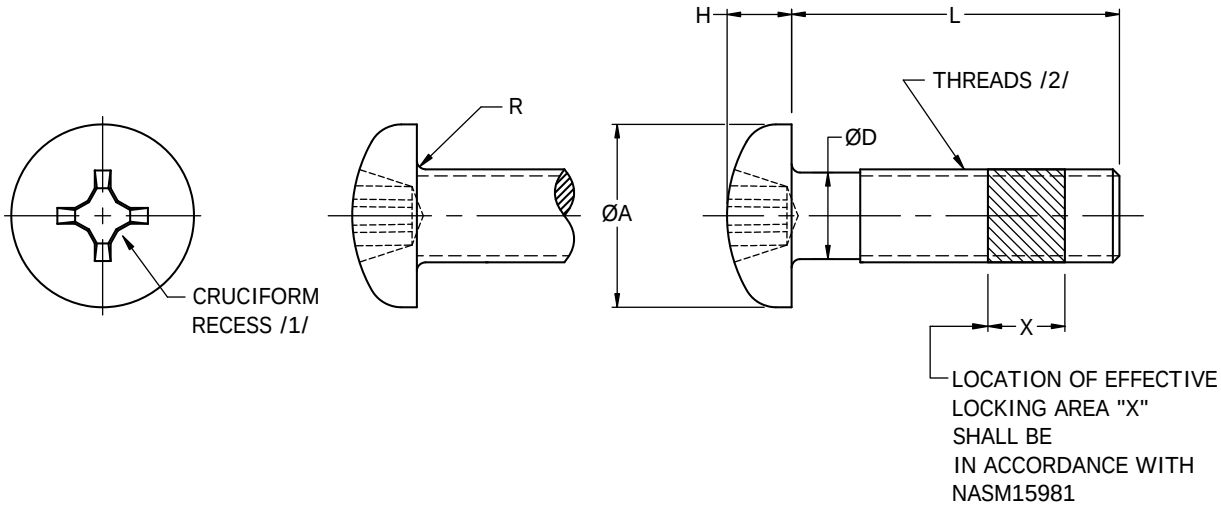


FED. SUPPLY CLASS

5305



② TABLE I – DIMENSIONS AND STRENGTH VALUES

DIA DASH NO	THREAD /2/	ØD		ØA		H		R	ULTIMATE TENSILE STRENGTH LBF MIN /3/	DRIVER SIZE
		MAX	MIN	MAX	MIN	MAX	MIN	MAX		
02	.0860–56 UNC-2A	.0860	.0717	.167	.155	.062	.053	.013	200	1
04	.1120–40 UNC-2A	.1120	.0925	.219	.205	.080	.070	.018	330	
06	.1380–32 UNC-2A	.1380	.1141	.270	.256	.097	.087		500	
08	.1640–32 UNC-2A	.1640	.1399	.322	.306	.115	.105	.023	770	2
3	.1900–32 UNF-2A	.1900	.1658	.373	.357	.133	.122		1,100	
4	.2500–28 UNF-2A	.2500	.2225	.492	.473	.175	.162	.026	2,000	3
5	.3125–24 UNF-2A	.3125	.2806	.615	.594	.218	.203	.031	3,200	4
6	.3750–24 UNF-2A	.3740	.3430	.740	.716	.261	.244		4,800	

MATERIAL: CARBON STEEL PER FED-STD-66 AIR4127.

FINISH: CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 3.

LOCKING ELEMENT:

IN ACCORDANCE WITH MIL-DTL-18240. LOCKING ELEMENT AREA MUST PASS THROUGH A RING GAGE EQUAL TO MAXIMUM MAJOR THREAD DIAMETER +.010 FREELY WITH FINGER PRESSURE.

CODE: THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER PLUS A DIA DASH NUMBER TAKEN FROM TABLE I AND A LENGTH DASH NUMBER TAKEN FROM THE APPROPRIATE COLUMN ON TABLE II. UNASSIGNED DASH NUMBERS SHALL NOT BE USED.

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS21090, REVISION A. PART NUMBERS REMAIN MS21090.

THIRD ANGLE PROJECTION		CUSTODIAN	REVISION
		NATIONAL AEROSPACE STANDARDS COMMITTEE	2
PROCUREMENT SPECIFICATION FF-S-92/ MIL-DTL-18240		TITLE	CLASSIFICATION PART STANDARD
			SCREW, SELF-LOCKING, 250 °F, STEEL, 55 KSI Ft_u, PAN HEAD, CROSS RECESSED MSM21090 SHEET 1 OF 2



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EXAMPLE OF PART NUMBER:

- (2) MS21090-0201 = SCREW, SELF-LOCKING, 250 °F, CARBON STEEL, CADMIUM PLATED, .0860-56 UNC-2A, .1875 LONG.
MS21090-351 = SCREW, SELF-LOCKING, 250 °F, CARBON STEEL, CADMIUM PLATED, .1900-32 UNF-2A, .500 LONG.

NOTES:

- /1/ DRIVE RECESS: RECESS SHALL BE PER NASM9006.
/2/ THREADS SHALL BE IN ACCORDANCE WITH FED-STD-H28. THE THREADS SHALL EXTEND TO WITHIN 2 THREADS OR LESS OF HEAD SURFACE ON SCREW LENGTHS 2 INCHES OR SHORTER. LENGTHS OVER 2 INCHES SHALL HAVE A MINIMUM COMPLETE THREAD LENGTH OF 1-3/4 INCHES.
/3/ BASED ON STRESS AREA EQUAL TO $\pi \left(\frac{E}{2} - \frac{3H}{16} \right)^2$. SEE FED-STD-H28.
(4) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
(5) FOR DESIGN AND USAGE LIMITATIONS, SEE NASM15981.
(6) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
(2) (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) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
(9) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.

TABLE II – LENGTH DASH NUMBERS (a)

L		THREAD SIZE AND PITCH							
LENGTH	TOLERANCE	.0860-56	.1120-40	.1380-32	.1640-32	.1900-32	.2500-28	.3125-24	.3750-24
.1875	+.000 -.031	01	09	19	33				
.250		02	10	20	34	47			
.312		03	11	21	35	48	62		
.375		04	12	22	36	49	63	76	
.4375		05	13	23	37	50	64	77	
.500		06	14	24	38	51	65	78	89
.625		07	15	25	39	52	66	79	90
.750		08	16	26	40	53	67	80	91
.875	+.000 -.062		17	27	41	54	68	81	92
1.000			18	28	42	55	69	82	93
1.250				29	43	56	70	83	94
1.500				30	44	57	71	84	95
1.750				31	45	58	72	85	96
2.000				32	46	59	73	86	97
2.250						60	74	87	98
2.500						61	75	88	99
2.750	+.000 -.094								100
3.000									101

- (a) MIL-DTL-18240 DOES NOT ESTABLISH REQUIREMENTS FOR LENGTH OF THREADS LESS THAN 9 PITCHES. THEREFORE, ONLY POSITIVE INDICATION OF TORQUE IS REQUIRED FOR SCREWS HAVING LENGTHS ABOVE THIS HEAVY LINE.

REVISION

2

NASM21090

SHEET 2

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