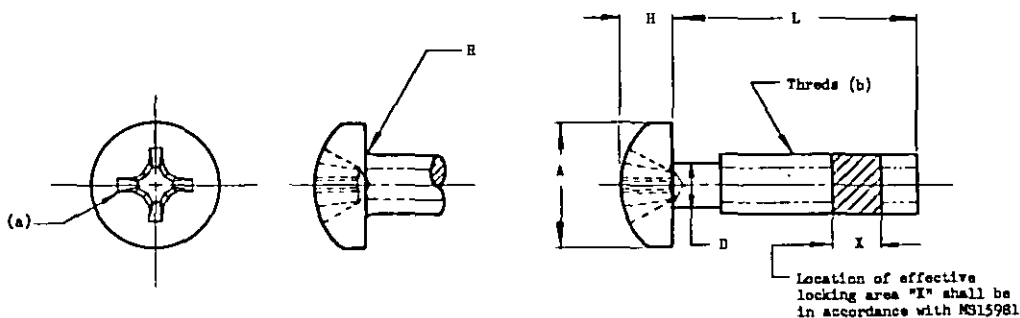


FED. SUP CLASS
5305

| DASH NO DIA | THREAD (b) | D DIA | | A DIA | | H | | R | ULTIMATE TENSILE STRENGTH (c) | | DRIVER SIZE |
|-------------------|---------------|----------|-------|----------|------|------|------|------|-------------------------------------|-----|----------------|
| | | MAX | MIN | MAX | MIN | MAX | MIN | MAX | LES | MIN | |
| 02 | 2-56UNC-2A | .0860 | .0717 | .167 | .155 | .062 | .053 | .013 | 200 | | 1 |
| 04 | 4-40UNC-2A | .1120 | .0925 | .219 | .205 | .080 | .070 | .018 | 330 | | |
| 06 | 6-32UNC-2A | .1380 | .1141 | .270 | .256 | .097 | .087 | | 500 | | 2 |
| 08 | 8-32UNC-2A | .1640 | .1399 | .322 | .306 | .115 | .105 | .023 | 770 | | |
| 3 | 10-32UNF-2A | .1900 | .1658 | .373 | .357 | .133 | .122 | | 1,100 | | 3 |
| 4 | 1/4-28UNF-2A | .2500 | .2225 | .492 | .473 | .175 | .162 | .026 | 2,000 | | |
| 5 | 5/16-24UNF-2A | .3125 | .2806 | .615 | .594 | .218 | .203 | | 3,200 | | 4 |
| 6 | 3/8-24UNF-2A | .3740 | .3430 | .740 | .716 | .261 | .244 | .031 | 4,800 | | |

(a) DRIVE RECESS: Recess shall conform with Standard MS 9006.

(b) Threads shall be in accordance with screw thread standards for Federal Services, Handbook H-28. 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.

(c) Based on stress area equal to $\pi \left(\frac{R}{2} - \frac{3H}{16} \right)^2$. See Handbook H-28.

MATERIAL: Carbon steel, FED-STD-66.

PLATING: Cadmium plate, Specification QQ-P-416, Type II, Class 3.

LOCKING ELEMENT: In accordance with MIL-F-18240. Locking element area must pass through a ring gage equal to maximum major thread diameter +.010" freely with finger pressure.

DIMENSIONS: All dimensions are in inches.

DESIGN AND USAGE LIMITATIONS: See MS15981.

EXAMPLE OF PART NUMBER: MS21090-0201-Screw Locking 250° F, Carbon Steel, Cadmium Plated, 2-56UNC-2A, 3/16 Long

MS21090-351-Screw, Self Locking 250° F, Carbon Steel, Cadmium Plated, 10-32UNF-2A, 1/2 Long

Unassigned dash numbers shall not be used.

REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.
THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.

FOR CHANGES SEE SHEETS 1 AND 2.

| | | | |
|---------------------------|-------------|--|-------------------|
| P.A. | NAVY - AS | TITLE | MILITARY STANDARD |
| Other Cus | USAF - 11 | SCREW, SELF-LOCKING, 250° F, STEEL, 55 KSI Ptu, PANHEAD, CROSS RECESSED | MS21090(ASG) |
| PROCUREMENT SPECIFICATION | SUPERSEDES: | | SHEET 1 OF 2 |
| MIL-F-18240/FF-S-92 | | | |

DD FORM 672-1 (Limited coordination)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

Review activities: NAVY - AS
USAF - 11

This standard has been approved by the Bufile (Department of the Navy), and the Department of the USAF, and is mandatory for use by that activity. All other military activities are required to comply with this standard where suitable.

APPROVED 2 NOV 65 REVISED 11 Sept 67

FED. SUP CLASS
5305

| L | | LENGTH DASH NUMBER | | | | | | | |
|--------|----------------|-----------------------|------|------|------|-------|--------|---------|--------|
| LENGTH | TOLERANCE | THREAD SIZE AND PITCH | | | | | | | |
| | | 2-56 | 4-40 | 6-32 | 8-32 | 10-32 | 1/4-28 | 5/16-24 | 3/8-24 |
| .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 | | | 17 | 27 | 41 | 54 | 68 | 81 | 92 |
| 1.000 | | | 18 | 28 | 42 | 55 | 69 | 82 | 93 |
| 1.250 | +.000 -.062 | | | 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 | +.000 -.094 | | | | | 60 | 74 | 87 | 98 |
| 2.500 | | | | | | 61 | 75 | 88 | 99 |
| 2.750 | | | | | | | | | 100 |
| 3.000 | | | | | | | | | 101 |

- (a) MIL-P-18210 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.

Review activities:
NAVY - AS
USAF - 11

This standard has been approved by the Bureau (Department of the Navy) and the Department of the USAF and is mandatory for use by all military activities. All other military activities are required to comply with this standard where suitable.

| | | |
|--|---|-----------------------------------|
| P.A. NAVY - AS Other Cust USAF - 11 | TITLE SCREW, SELF-LOCKING, 250° F, STEEL, 55 KSI Ftu, PANHEAD, CROSS RECESSED | MILITARY STANDARD MS21090(ASG) |
| PROCUREMENT SPECIFICATION MIL-P-18210/FF-S-92 | SUPERSEDES: | SHEET 2 OF |

DD FORM 672-1 (limited coordination)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

U.S. GOVERNMENT PRINTING OFFICE: 1971-28-311/128

APPROVED 2 Nov 65 REVISED 4 FOR CHANGES SEE SHEETS 1 AND 2.