

FED. SUPPLY CLASS

5305

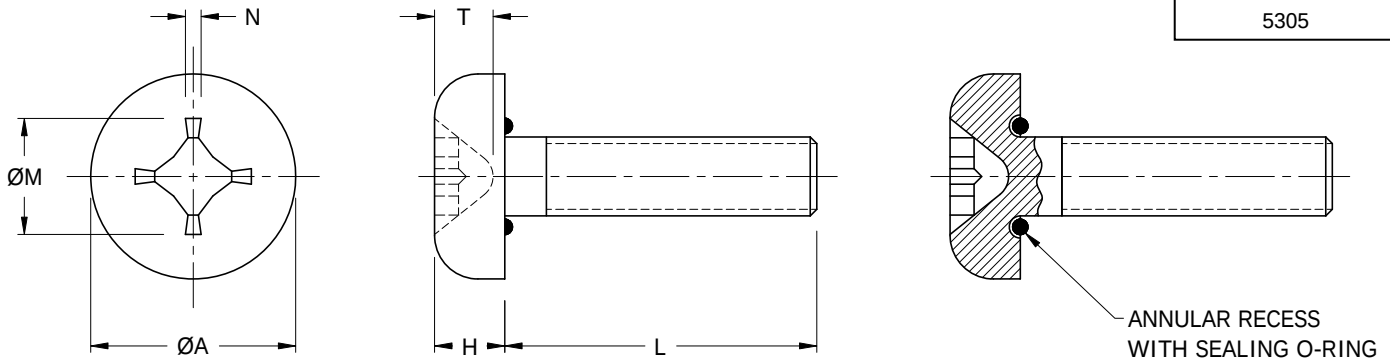


TABLE I - DIMENSIONS

| NOMINAL SIZE                         |            |           | #4<br>Ø.1120 | #6<br>Ø.1380 | #8<br>Ø.1640 | #10<br>Ø.1900 | #10<br>Ø.1900 | 1/4<br>Ø.2500 |
|--------------------------------------|------------|-----------|--------------|--------------|--------------|---------------|---------------|---------------|
| THREADS PER INCH AND<br>THREAD CLASS |            |           | 40UNC-2A     | 32UNC-2A     | 32UNC-2A     | 32UNF-2A      | 24UNC-2A      | 20UNC-2A      |
| ØA HEAD                              | MAX        |           | .238         | .294         | .347         | .403          | .403          | .517          |
|                                      | MIN        |           | .205         | .256         | .306         | .357          | .357          | .473          |
| H HEAD HEIGHT                        | MAX        |           | .080         | .097         | .115         | .133          | .133          | .175          |
|                                      | MIN        |           | .070         | .087         | .105         | .122          | .122          | .162          |
| ØM RECESS                            | MAX        |           | .122         | .166         | .182         | .199          | .199          | .281          |
|                                      | MIN        |           | .109         | .153         | .169         | .186          | .186          | .268          |
| T DEPTH OF RECESS                    | MAX        |           | .078         | .091         | .108         | .124          | .124          | .161          |
|                                      | MIN        |           | .060         | .066         | .082         | .100          | .100          | .135          |
| N WIDTH OF RECESS                    | MIN        |           | .019         | .028         | .030         | .031          | .031          | .036          |
| DRIVER SIZE                          |            |           | 1            | 2            | 2            | 2             | 2             | 3             |
|                                      | L LENGTH   | TOLERANCE | DASH NO.     | DASH NO.     | DASH NO.     | DASH NO.      | DASH NO.      | DASH NO.      |
| LENGTH<br>OF<br>THREAD<br>/6/        | .250       |           | 1            | 11           | 21           | -             | -             | -             |
|                                      | .312       | +.00      | 2            | 12           | 22           | -             | -             | -             |
|                                      | .375       | -.02      | 3            | 13           | 23           | 31            | 39            | 47            |
|                                      | .438       |           | 4            | 14           | 24           | 32            | 40            | 48            |
|                                      | .500       |           | 5            | 15           | 25           | 33            | 41            | 49            |
|                                      | .562 /11/  |           | 6            | 16           | 26           | 34            | 42            | 50            |
|                                      | .625       |           | 7            | 17           | 27           | 35            | 43            | 51            |
|                                      | .750       | +.00      | 8            | 18           | 28           | 36            | 44            | 52            |
|                                      | .875       | -.03      | 9            | 19           | 29           | 37            | 45            | 53            |
|                                      | 1.000      |           | 10           | 20           | 30           | 38            | 46            | 54            |
|                                      | 1.125 /11/ | +.00      | -            | -            | -            | -             | -             | 55            |
|                                      | 1.250      | -.06      | -            | -            | -            | -             | -             | 56            |

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS3213, REVISION B. PART NUMBERS REMAIN MS3213.

|                                               |                                                                                                                                            |                                                        |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| THIRD<br>ANGLE<br>PROJECTION                  | CUSTODIAN<br><br>NATIONAL AEROSPACE STANDARDS COMMITTEE                                                                                    | REVISION<br><br><b>2</b>                               |
| PROCUREMENT<br>SPECIFICATION<br><br>NASM82496 | TITLE<br><br><b>SCREW, MACHINE, PAN HEAD, CROSS-RECESSED,<br/>SELF-SEALING, INTEGRAL FLUOROSILICONE O-RING,<br/>PLAIN AND SELF-LOCKING</b> | CLASSIFICATION<br>PART STANDARD<br><br><b>NASM3213</b> |

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MATERIAL:

SCREW: CORROSION RESISTING STEEL (CRES) IN ACCORDANCE WITH ~~MIL-S-82496~~ NASM82496.

O-RING: FLUROSILICONE RUBBER, COMPOSITION B IN ACCORDANCE WITH ~~MIL-S-82496~~ NASM82496  
(RESISTANT TO MIL-PRF-5606 HYDRAULIC FLUID AND REFERENCE FUEL B TYPE III FUEL OF  
~~TT-S-735~~ PER ASTM D471).

FINISH:

SCREWS SHALL BE PASSIVATED IN ACCORDANCE WITH AMS2700, METHOD 1, CLASS 4.

CODE:

THE PART NUMBER CONSISTS OF THE NUMBER MS3213, PLUS THE ASSIGNED DASH NUMBER, PLUS THE  
LETTER "L" FOR SELF-LOCKING SCREWS.

EXAMPLE OF PART NUMBER:

MS3213-29 L

ADD "L" AFTER DASH NUMBER WHEN SELF-LOCKING FEATURE IS ADDED.

DASH NUMBER

BASIC NUMBER

- ② MS3213-29 = 0.875-INCH LONG .1640-32 UNC-2A SCREW.  
MS3213-29L = 0.875-INCH LONG .1640-32 UNC-2A SCREW WITH THE SELF-LOCKING FEATURE.

NOTES:

- (1) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (2) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (3) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- ② (4) 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.
- (5) THREADS SHALL BE IN ACCORDANCE WITH FED-STD-H28.
- /6/ LENGTH OF THREAD SHALL BE IN ACCORDANCE WITH ASME B18.6.3.
- (7) THE RECESS SHALL BE IN ACCORDANCE WITH THE DIMENSIONS OF TYPE I CROSS-RECESSED PAN HEAD MACHINE SCREWS OF ASME B18.6.3.
- (8) WHEN SELF-LOCKING SCREWS ARE REQUIRED, THE SELF-LOCKING ELEMENT SHALL BE A NON-METALLIC ELEMENT IN ACCORDANCE WITH MIL-DTL-18240 AND NASM15981.
- (9) REMOVE ALL BURRS AND SHARP EDGES.
- (10) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
- ② /11/ INACTIVE FOR NEW DESIGN AFTER 30 APRIL 1977. FOR DESCRIPTION OF STATUS NOTES SEE NAS380.

REVISION

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NASM3213

SHEET 2



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