

REV.  
C

AS1792

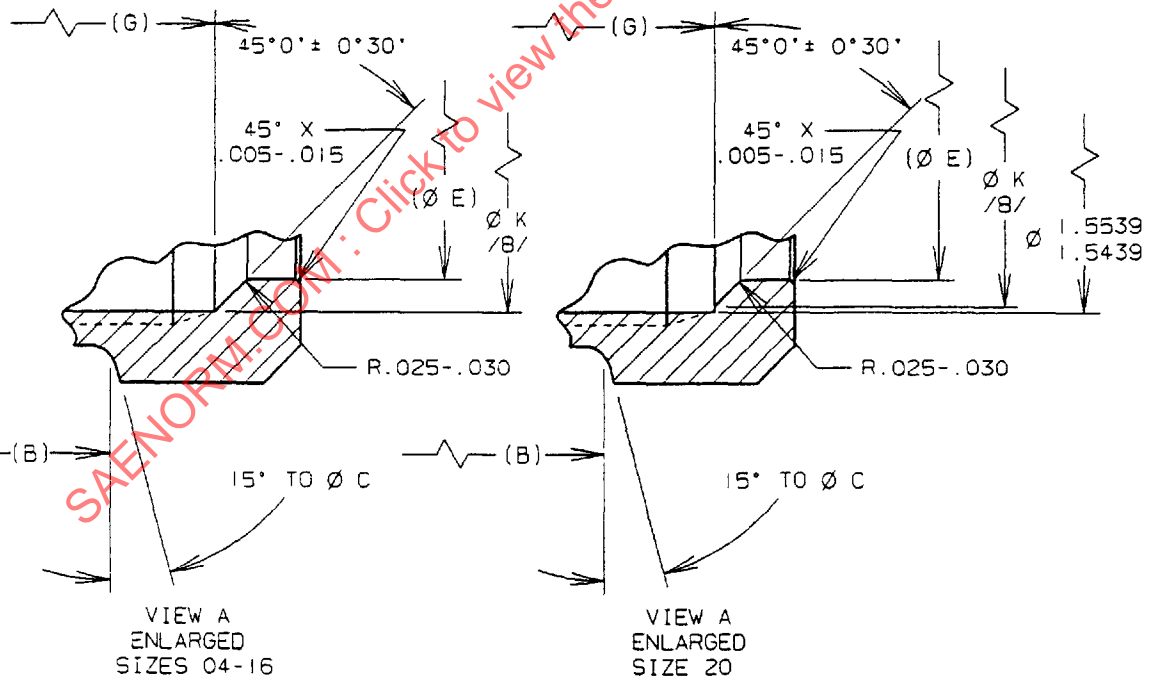
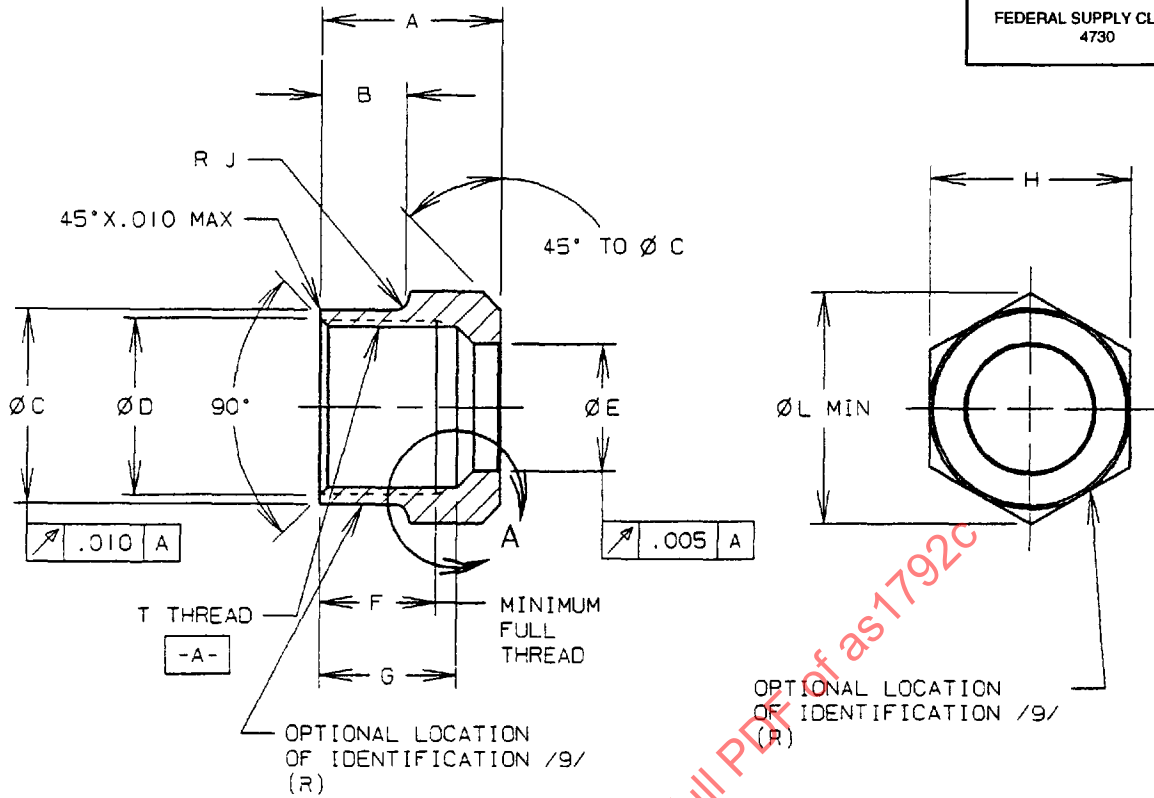
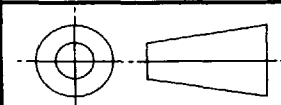
FEDERAL SUPPLY CLASS  
4730

FIGURE 1 - NUT, LIGHTWEIGHT, FLARELESS

THIRD ANGLE PROJECTION



CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: /5/ MIL-F-18280

**SAE** The Engineering Society  
For Advancing Mobility  
Land Sea Air and Space  
**INTERNATIONAL**  
400 Commonwealth Drive, Warrendale, PA 15096-0001

**AEROSPACE STANDARD**NUT, FITTING, LIGHTWEIGHT,  
FLARELESSAS1792  
SHEET 1 OF 3REV.  
C

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(R) TABLE 1A - DIMENSIONS

| BASIC NO.<br>AS1792<br>/16/<br>SIZE CODE | (NOMINAL<br>TUBE<br>SIZE) | T THREAD<br>PER<br>MIL-S-8879 | A    | B    | C<br>±.005 | D     | E<br>+.005/- .000 |
|------------------------------------------|---------------------------|-------------------------------|------|------|------------|-------|-------------------|
| 04                                       | .250                      | .4375-20 UNJF-3B              | .720 | .352 | .524       | .452  | .300              |
| 05                                       | .312                      | .5000-20 UNJF-3B              | .740 | .336 | .587       | .514  | .366              |
| 06                                       | .375                      | .5625-18 UNJF-3B              | .760 | .325 | .649       | .576  | .425              |
| 08                                       | .500                      | .7500-16 UNJF-3B              | .800 | .379 | .842       | .764  | .552              |
| 10                                       | .625                      | .8750-14 UNJF-3B              | .876 | .440 | .968       | .890  | .690              |
| 12                                       | .750                      | 1.0625-12 UNJ-3B              | .900 | .395 | 1.177      | 1.078 | .826              |
| 16                                       | 1.000                     | 1.3125-12 UNJ-3B              | .900 | .370 | 1.427      | 1.328 | 1.074             |
| 20                                       | 1.250                     | 1.6250-12 UNJ-3B              | .900 | .385 | 1.740      | 1.640 | 1.330             |

(R) TABLE 1B - DIMENSIONS AND WEIGHTS

| BASIC<br>AS1792<br>/16/<br>SIZE CODE | F<br>MIN | G    | H           | J<br>MIN | K<br>/8/      | L     | LB/EA<br>MAX<br>TI | LB/EA<br>MAX<br>CRES |
|--------------------------------------|----------|------|-------------|----------|---------------|-------|--------------------|----------------------|
| 04                                   | .431     | .547 | .552- .565  | .060     | .3888- .3970  | .638  | .0159              | .0278                |
| 05                                   | .444     | .562 | .615- .628  | .060     | .4513- .4591  | .709  | .0190              | .0332                |
| 06                                   | .422     | .578 | .678- .691  | .060     | .5084- .5166  | .780  | .0228              | .0398                |
| 08                                   | .516     | .609 | .865- .878  | .060     | .6892- .6977  | .993  | .0344              | .0602                |
| 10                                   | .578     | .687 | .990-1.003  | .070     | .8055- .8152  | 1.120 | .0438              | .0767                |
| 12                                   | .562     | .687 | 1.238-1.253 | .085     | .9814- .9914  | 1.400 | .0764              | .134                 |
| 16                                   | .562     | .687 | 1.488-1.505 | .115     | 1.2314-1.2414 | 1.650 | .0977              | .171                 |
| 20                                   | .562     | .687 | 1.988-2.005 | .125     | 1.4720-1.4870 | 2.200 | .184               | .322                 |

## NOTES:

- /1/ MATERIAL:
- (R) a. CODE LETTER T - TYPE 6AL-4V TITANIUM ALLOY PER AMS 4928 OR MIL-T-9047, CONDITION A.  
b. CODE LETTER V - TYPE 15-5PH CORROSION RESISTANT STEEL PER AMS 5659 (FORMERLY CODE LETTER C /5/).
2. HEAT TREATMENT:
- (R) a. TITANIUM ALLOY - NONE.  
b. CORROSION RESISTANT STEEL - HEAT TREAT TO CONDITION H 1075 PER AMS 2759/3 OR MIL-H-6875.
3. FINISH:
- a. MATERIAL CODE LETTER T - FLUORIDE PHOSPHATE CONVERSION COAT PER AMS 2486 OR ANODIZE PER AMS 2488. IF REQUIRED, APPLY DRY FILM LUBRICANT PER MIL-L-46010, TYPE I TO THE INTERNAL SURFACE. MINOR OVERSPRAY ON EXTERNAL SURFACE IS PERMITTED. /10/  
b. MATERIAL CODE LETTER C - PASSIVATE PER QQ-P-35, TYPE II OR VIII. IF REQUIRED, APPLY DRY FILM LUBRICANT PER MIL-L-46010, TYPE I TO THE INTERNAL SURFACE. MINOR OVERSPRAY ON EXTERNAL SURFACE IS PERMITTED. CORROSION RESISTANT STEEL IN SIZE 16 AND 20 MUST BE DRY FILM COATED. /10/
4. THE (R) IS FOR THE CONVENIENCE OF THE USER IN LOCATING AREAS WHERE TECHNICAL REVISIONS, NOT EDITORIAL CHANGES, HAVE BEEN MADE TO THE PREVIOUS ISSUE OF THIS SPECIFICATION. IF THE SYMBOL IS NEXT TO THE SPECIFICATION TITLE, IT INDICATES A COMPLETE REVISION OF THE SPECIFICATION.
- /5/ INVENTORIED PARTS CONFORMING TO THE PREVIOUS "LETTER CHANGE" MAY BE USED TO DEPLETION.
- (R) PARTS FORMERLY CODED "C" MAY BE SUPPLIED IN PLACE OF PARTS CODED "V".
- /6/ PROCUREMENT SPECIFICATION: MIL-F-18280 EXCEPT AS SPECIFIED ON THIS STANDARD. THIS PART SHALL BE QUALIFIED TO THE PROCUREMENT SPECIFICATION AS APPLICABLE IN A COMPLETE ASSEMBLY. USERS OF THIS STANDARD ARE ADVISED TO CONTROL SOURCE APPROVAL(S) BY STANDARD PAGE SUPPLEMENT SHEET OR SIMILAR MEANS.
7. INTENDED USE: THIS PART IS A LIGHTWEIGHT VERSION OF MS21921 FLARELESS NUT.
- /8/ DIMENSION "K" CORRESPONDS TO THE MINOR DIAMETER OF THE THREAD EXCEPT SIZE 20.
- /9/ IDENTIFICATION AT LOCATION SHOWN: MARK PER AS478, CLASS C OR D OR METHOD 7A3, 15A3, OR 15B.  
a. FOR SIZE 06 AND SMALLER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, LETTER "AS" AND MATERIAL CODE LETTER.  
b. FOR SIZE 08 AND LARGER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, BASIC PART NUMBER AND MATERIAL CODE LETTER.
- /10/ SUFFIX LETTER "N": APPLY DRY FILM LUBRICANT PER MIL-L-46010, TYPE I TO THE INTERNAL SURFACE, MINOR OVERSPRAY ON EXTERNAL SURFACE IS PERMITTED.
11. INTERPRETATION OF DRAWING PER ARP4296.

**AEROSPACE STANDARD**NUT, FITTING, LIGHTWEIGHT,  
FLARELESS**AS1792**  
SHEET 2 OF 3**REV.**  
**C**