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AS1790

REV. E

FEDERAL SUPPLY CLASS
4730

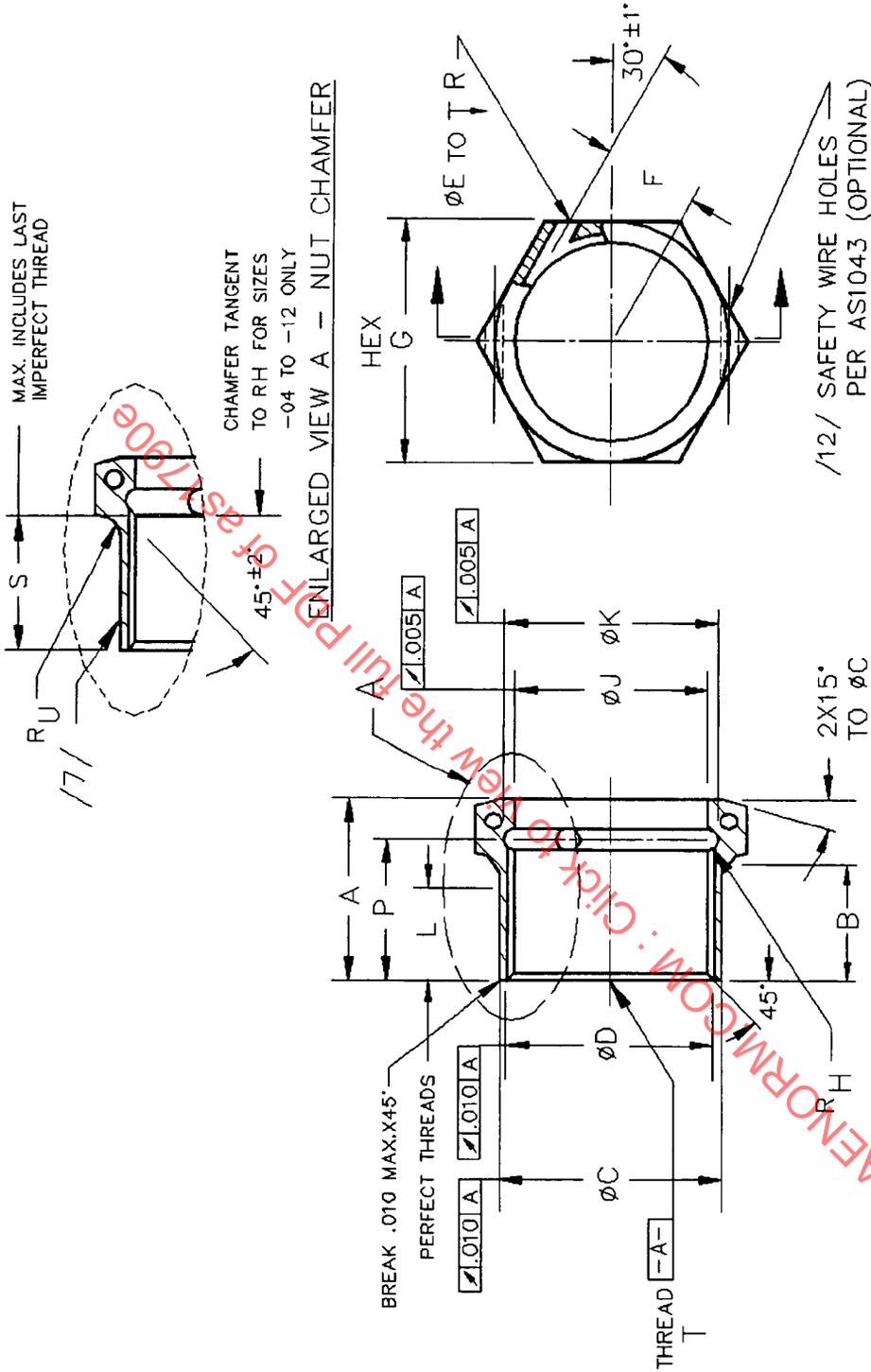
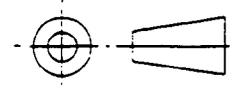


FIGURE 1 - NUT, RETAINED, LIGHTWEIGHT

THIRD ANGLE PROJECTION



CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ 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, RETAINED, LIGHTWEIGHT

AS1790

SHEET 1 DF 3

REV.

E

ISSUED 1983-03

REVISED 1994-07 (E)

REV.
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AS1790

TABLE 1 - DIMENSIONS A-H

| BASIC NO. AS1790 /12/ SIZE CODE | NOMINAL TUBE SIZE | T THREAD PER MIL-S-8879 | | | | | | | | |
|--|-------------------------|-------------------------------|------------|------------|-------|------------|------|-------|-------------|------------|
| | | | A ±.010 | B ±.010 | C | O ±.010 | E | F | G | H ±.001 |
| 02 | .125 | .3125-24UNJF-3B | .530 | .334 | .370 | .331 | .077 | .137 | .370-.380 | .038 |
| 03 | .188 | .3750-24UNJF-3B | .580 | .320 | .432 | .394 | .077 | .170 | .433-.443 | .038 |
| 04 | .250 | .4375-20UNJF-3B | .615 | .304 | .524 | .456 | .077 | .194 | .552-.567 | .038 |
| 05 | .312 | .5000-20UNJF-3B | .687 | .376 | .587 | .519 | .086 | .224 | .615-.630 | .043 |
| 06 | .375 | .5625-18UNJF-3B | .718 | .407 | .649 | .581 | .086 | .252 | .678-.693 | .043 |
| 08 | .500 | .7500-16UNJF-3B | .843 | .500 | .842 | .769 | .101 | .341 | .865-.880 | .050 |
| 10 | .625 | .8750-14UNJF-3B | .968 | .625 | .968 | .894 | .101 | .396 | .990-1.005 | .050 |
| 12 | .750 | 1.0625-12UNJ -3B | 1.015 | .640 | 1.177 | 1.082 | .131 | .485 | 1.240-1.255 | .065 |
| 14 | .875 | 1.1875-12UNJ -3B | 1.100 | .725 | 1.302 | 1.208 | .131 | .548 | 1.365-1.380 | .065 |
| 16 | 1.000 | 1.3125-12UNJ -3B | 1.125 | .750 | 1.427 | 1.332 | .131 | .610 | 1.484-1.516 | .065 |
| 20 | 1.250 | 1.6250-12UNJ -3B | 1.168 | .778 | 1.740 | 1.645 | .131 | .766 | 1.792-1.832 | .065 |
| 24 | 1.500 | 1.8750-12UNJ -3B | 1.358 | .920 | 2.055 | 1.895 | .131 | .893 | 2.105-2.145 | .065 |
| 32 | 2.000 | 2.5000-12UNJ -3B | 1.684 | 1.184 | 2.678 | 2.520 | .131 | 1.200 | 2.730-2.770 | .065 |

TABLE 2 - DIMENSIONS J-U

| BASIC NO. AS1790 /12/ SIZE CODE | | | | | | | | | LB/EA | LB/EA | LB/EA |
|--|---------------|-------|----------|------------|------------|-------|----------|-----------|-------|-----------|-----------|
| | J | K | L MIN | P ±.004 | R ±.015 | S | U MIN | U CRES | MAX | MAX TI | MAX AL |
| 02 | .2708-.2791 | .350 | .300 | .430 | .155 | .382 | .060 | .007 | .004 | .003 | |
| 03 | .3338-.3420 | .415 | .330 | .450 | .170 | .371 | .060 | .011 | .007 | .004 | |
| 04 | .3888-.3970 | .461 | .404 | .500 | .235 | .500 | .060 | .016 | .009 | .006 | |
| 05 | .4513-.4591 | .531 | .402 | .550 | .255 | .542 | .060 | .020 | .012 | .007 | |
| 06 | .5084-.5166 | .588 | .414 | .573 | .265 | .569 | .060 | .025 | .014 | .009 | |
| 08 | .6892-.6977 | .781 | .488 | .660 | .325 | .647 | .060 | .041 | .024 | .014 | |
| 10 | .8055-.8152 | .896 | .544 | .762 | .365 | .727 | .070 | .056 | .033 | .019 | |
| 12 | .9814-.9914 | 1.102 | .550 | .780 | .465 | .763 | .085 | .093 | .054 | .032 | |
| 14 | 1.1079-1.1179 | 1.231 | .557 | .850 | .500 | .790 | .085 | .117 | .068 | .041 | |
| 16 | 1.2314-1.2414 | 1.352 | .563 | .875 | .535 | .813 | .115 | .135 | .078 | .047 | |
| 20 | 1.5439-1.5539 | 1.664 | .589 | .959 | .735 | .813 | .115 | .183 | .106 | .064 | |
| 24 | 1.7939-1.8039 | 1.917 | .661 | 1.105 | .842 | .911 | .115 | .339 | .196 | .118 | |
| 32 | 2.4189-2.4289 | 2.542 | .844 | 1.340 | 1.026 | 1.094 | .115 | .590 | .341 | .205 | |