

REV.  
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AS1986

FEDERAL SUPPLY CLASS  
4030

# RATIONALE

UPDATE OF MAXIMUM WEIGHT VALUES VERIFIED THROUGH CAD MODELING, AND UPDATE OF DRAWING INTERPRETATION SPECIFICATION.

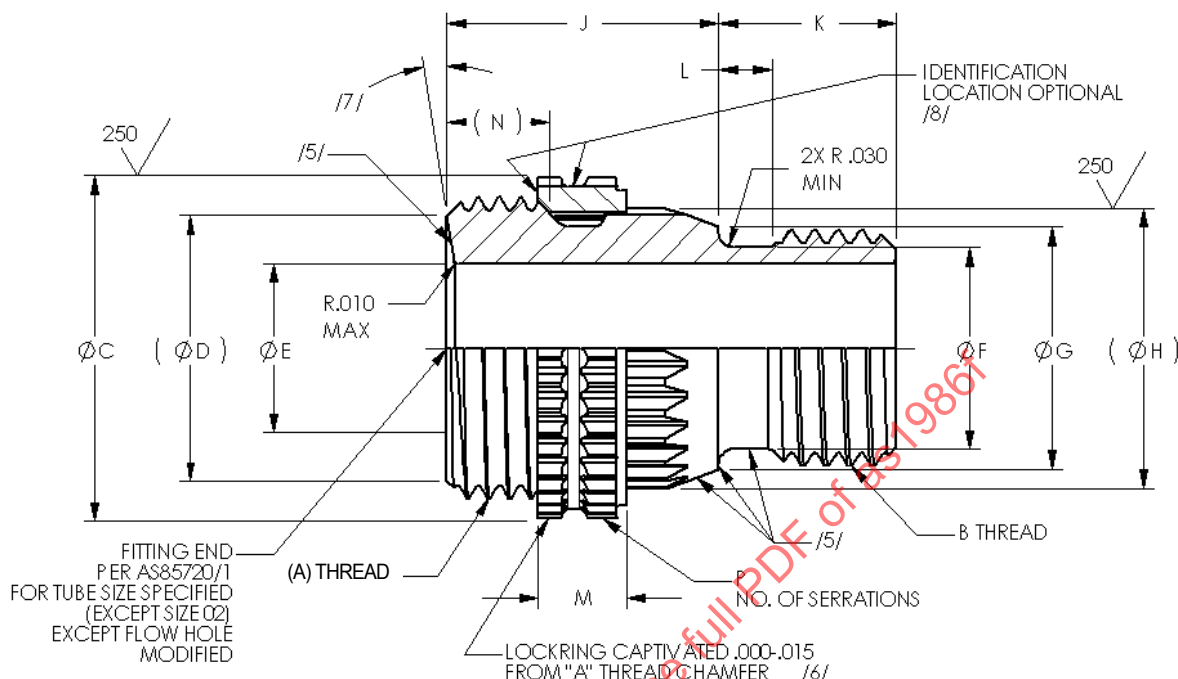


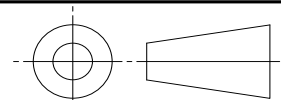
FIGURE 1 - ADAPTER, ASSEMBLY

TABLE 1A - DIMENSIONS A - F

| BASIC NO.<br>AS1986<br>/18/<br>SIZE CODE | (NOMINAL<br>TUBE<br>SIZE) | A<br>THREAD<br>AS8879 | B<br>THREAD<br>AS8879 | C     | D             | E             | F<br>+.005<br>-.002 |
|------------------------------------------|---------------------------|-----------------------|-----------------------|-------|---------------|---------------|---------------------|
| 02                                       | .125                      | .3125-32UNJEF-3A      | .2160-28UNJF-3A       | .400  | .265 - .271   | .090 - .096   | .154                |
| 03                                       | .188                      | .3750-28UNJS-3A       | .2500-28UNJF-3A       | .468  | .323 - .329   | .122 - .128   | .186                |
| 04                                       | .250                      | .4375-24UNJS-3A       | .3125-24UNJF-3A       | .514  | .377 - .383   | .169 - .175   | .239                |
| 05                                       | .312                      | .5000-24UNJS-3A       | .3750-24UNJF-3A       | .624  | .440 - .446   | .231 - .237   | .301                |
| 06                                       | .375                      | .5625-20UNJS-3A       | .4375-20UNJF-3A       | .700  | .490 - .497   | .294 - .300   | .364                |
| 08                                       | .500                      | .7188-20UNJS-3A       | .5625-18UNJF-3A       | .814  | .646 - .654   | .398 - .408   | .482                |
| 10                                       | .625                      | .8438-18UNJS-3A       | .6875-24UNJEF-3A      | 1.040 | .763 - .772   | .493 - .503   | .625                |
| 12                                       | .750                      | 1.0000-16UNJ-3A       | .8125-20UNJEF-3A      | 1.170 | .910 - .919   | .604 - .614   | .737                |
| 14                                       | .875                      | 1.1250-16UNJ-3A       | .9375-20UNJEF-3A      | 1.341 | 1.034 - 1.044 | .729 - .739   | .868                |
| 16                                       | 1.000                     | 1.2500-14UNJS-3A      | 1.1250-18UNJEF-3A     | 1.456 | 1.148 - 1.158 | .839 - .851   | 1.000               |
| 20                                       | 1.250                     | 1.5781-14UNJS-3A      | 1.3125-18UNJEF-3A     | 1.782 | 1.476 - 1.486 | 1.073 - 1.086 | 1.225               |
| 24                                       | 1.500                     | 1.8438-14UNJS-3A      | 1.6250-18UNJEF-3A     | 2.031 | 1.741 - 1.751 | 1.307 - 1.320 | 1.502               |

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THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS85720



## AEROSPACE STANDARD

FITTING ASSEMBLY, ADAPTER  
RING LOCKED PORT CONNECTION TO BEAM SEAL  
4000 PSI AND 5000 PSI /9/

AS1986  
SHEET 1 OF 3

REV.  
F

TABLE 1B - DIMENSIONS G – P AND WEIGHT

| BASIC NO.<br>AS1986<br>/18/<br>SIZE CODE | G<br>MIN | H     | J<br>+.010<br>-.005 | K<br>+.000<br>-.015 | L<br>+.010<br>-.005 | M<br>±.007 | N<br>MIN | P  | WEIGHT<br>LB/EA<br>MAX |
|------------------------------------------|----------|-------|---------------------|---------------------|---------------------|------------|----------|----|------------------------|
| 02                                       | .246     | .317  | .519                | .300                | .125                | .192       | .141     | 24 | .009                   |
| 03                                       | .278     | .349  | .550                | .355                | .125                | .192       | .164     | 26 | .012                   |
| 04                                       | .331     | .400  | .592                | .355                | .125                | .192       | .197     | 30 | .016                   |
| 05                                       | .393     | .491  | .592                | .381                | .125                | .192       | .197     | 36 | .021                   |
| 06                                       | .456     | .544  | .633                | .395                | .125                | .210       | .205     | 36 | .027                   |
| 08                                       | .574     | .670  | .646                | .430                | .125                | .210       | .218     | 40 | .038                   |
| 10                                       | .717     | .824  | .710                | .465                | .125                | .210       | .274     | 38 | .066                   |
| 12                                       | .891     | .981  | .760                | .527                | .157                | .220       | .303     | 40 | .088                   |
| 14                                       | 1.022    | 1.118 | .778                | .572                | .157                | .220       | .318     | 50 | .111                   |
| 16                                       | 1.154    | 1.251 | .808                | .564                | .157                | .220       | .338     | 36 | .137                   |
| 20                                       | 1.379    | 1.466 | .832                | .569                | .157                | .240       | .335     | 56 | .198                   |
| 24                                       | 1.656    | 1.768 | .917                | .608                | .157                | .240       | .420     | 81 | .299                   |

## NOTES:

## 1. MATERIAL:

- a. FITTING: 6Al-4V TITANIUM ALLOY PER AMS4928, AMS4965, OR AMS4967.
- b. LOCKRING: A286 CORROSION RESISTANT STEEL PER AMS5731, AMS5732, AMS5734, AMS5737, OR AMS5853.

## 2. HEAT TREATMENT:

- a. FITTING: 130 KSI UTS MIN.
- b. LOCKRING: 34-40 HRC.

## 3. FINISH:

- a. FITTING: ANODIC TREATMENT PER AMS2488, TYPE 2.
- b. LOCKRING: PASSIVATE PER AMS2700, TYPE 2.

## /4/ PROCUREMENT SPECIFICATION:

- a. AS85421 (SIZES 02, 03, 05, 14, 20, AND 24): PRODUCT SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED BY AN ACCREDITED MANUFACTURER AS LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCTS LIST FOR PRI-QPL-AS85421 FOR THIS STANDARD. SEE <http://www.eAuditNet.com> FOR CURRENT QPL ONLINE.
- b. AS85720 (SIZES 04, 06, 08, 10, 12, AND 16): PRODUCT SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED BY AN ACCREDITED MANUFACTURER AS LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCTS LIST FOR PRI-QPL-AS85720 FOR THIS STANDARD. SEE <http://www.eAuditNet.com> FOR CURRENT QPL ONLINE.

/5/ SEALING SURFACE: NO VISIBLE DEFECTS. TO BE PROTECTED FOR SHIPMENT.

/6/ LOCKRING RETAINED ON FITTING BY CONTROLLED INTERFERENCE FIT.



## AEROSPACE STANDARD

FITTING ASSEMBLY, ADAPTER  
RING LOCKED PORT CONNECTION TO BEAM SEAL  
4000 PSI AND 5000 PSI /9/

AS1986  
SHEET 2 OF 3

REV.  
F