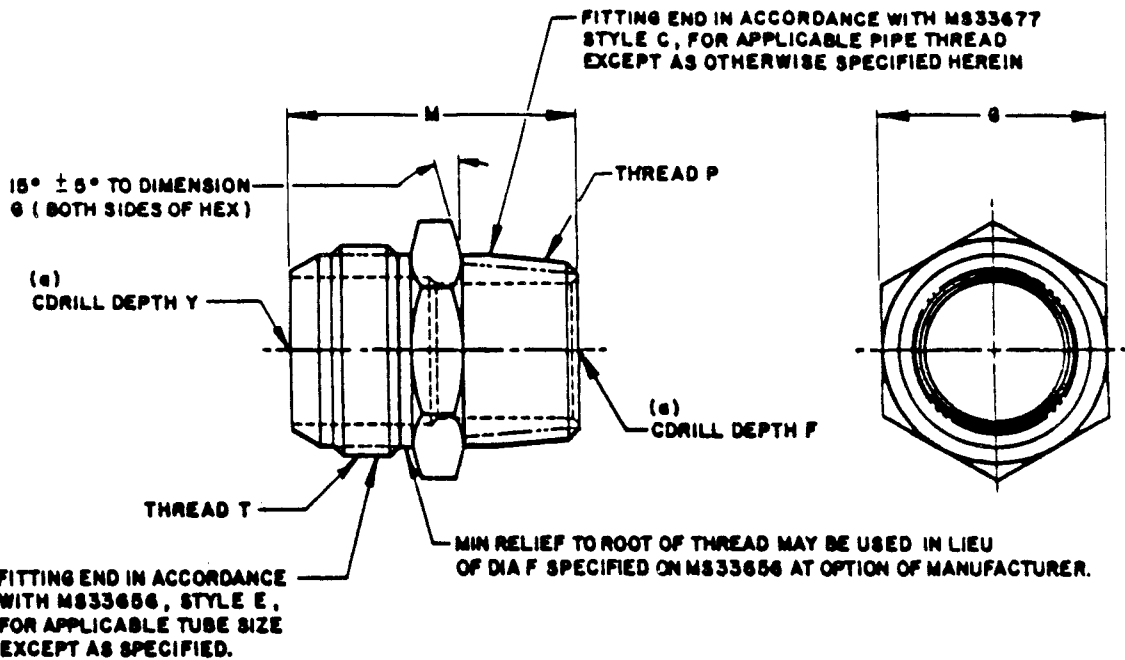


USER ACTIVITIES
ARMY-HE, AV
NAVY-AS
DLA-CS



(a) CORILL IS ONLY FROM THE END OF LARGER DRILL: THE LARGER COUNTERDRILL IS NOT MANDATORY. AT THE OPTION OF THE MANUFACTURER THE SMALLER DIA MAY BE DRILLED THROUGH THE FITTING FROM END TO END.

MATERIAL: STEEL, ALUMINUM ALLOY, COPPER ALLOY, CORROSION RESISTANT STEEL (CRES); BARS.
SEE PROCUREMENT SPECIFICATION

FINISH: SEE PROCUREMENT SPECIFICATION.

NO CODE LETTER IN PART NUMBER FOR CARBON STEEL
ADD B AFTER DASH NUMBER FOR COPPER ALLOY.
ADD D AFTER DASH NUMBER FOR ALUMINUM ALLOY (EXCEPT 7075-T73).
ADD J AFTER DASH NUMBER FOR CRES, TYPE 304.
ADD K AFTER DASH NUMBER FOR CRES, TYPE 316.
ADD S AFTER DASH NUMBER FOR CRES, TYPE 347.
ADD W AFTER DASH NUMBER FOR 7075-T73 ALUMINUM ALLOY.

EXAMPLE OF PART NUMBERS:
AN816-4 - ADAPTER, 1/4 TUBING OD TO 1/8 PIPE, CARBON STEEL.
AN816-4B - ADAPTER, 1/4 TUBING OD TO 1/8 PIPE, COPPER ALLOY.
AN816-4D - ADAPTER, 1/4 TUBING OD TO 1/8 PIPE, ALUMINUM ALLOY (EXCEPT 7075-T73).
AN816-8J - ADAPTER, 1/2 TUBING OD TO 3/8 PIPE, CRES, TYPE 304.
AN816-8K - ADAPTER, 1/2 TUBING OD TO 3/8 PIPE, CRES, TYPE 316.
AN816-8S - ADAPTER, 1/2 TUBING OD TO 3/8 PIPE, CRES, TYPE 347.
AN816-8W - ADAPTER, 1/2 TUBING OD TO 3/8 PIPE, 7075-T73 ALUMINUM ALLOY.

BREAK ALL SHARP EDGES AND REMOVE ALL HANGING BURRS AND SLIVERS.
DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: FRACTIONS ±1/64, DECIMALS ±.005,
ANGLES ±1/2°.

CERTAIN PROVISIONS (SCREW THREADS, HEXAGON, AND UNDERCUT DIMENSIONS) OF THIS STANDARD ARE THE SUBJECT OF INTERNATIONAL STANDARDIZATION AGREEMENT ABC AIR STD 17/15. WHEN REVISION OR CANCELLATION OF THIS STANDARD IS PROPOSED, THE DEPARTMENTAL CUSTODIANS WILL INFORM THEIR RESPECTIVE DEPARTMENTAL STANDARDIZATION OFFICES SO THAT APPROPRIATE ACTION MAY BE TAKEN RESPECTING THE INTERNATIONAL AGREEMENT CONCERNED.

INACTIVE FOR DESIGN AFTER 9 JANUARY 1964, EXCEPT FOR USE ON OXYGEN SYSTEMS AND GROUND SERVICE EQUIPMENT.
SEE MIL-STD-962 FOR STATUS CRITERIA.

NOTES:
REFERENCED GOVERNMENT (OR NONGOVERNMENT) DOCUMENTS OF THE ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) SPECIFIED IN THE SOLICITATION FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HEREIN.

FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER ACQUISITION DOCUMENTS REFERENCED HEREIN.

(13) ENTIRE STANDARD REVISED

DISTRIBUTION STATEMENT A. APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED

REVIEWER ACTIVITIES
ARMY-HE, AF
NAVY-AS
DLA-CS

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

AMSC N/A

| | | | | |
|---|---------------------------|--------------------------------------|--|--------------|
| P. A. AIR FORCE - 82 Orbit Cost | INTERNATIONAL INTEREST | AIR FORCE-NAVY AERONAUTICAL STANDARD | | AN816 |
| | | ADAPTER, STRAIGHT, PIPE TO TUBE | | |
| AIR FORCE-99 | | | | |
| PROCUREMENT SPECIFICATION MIL - F - 8809 | SUPERSEDES | | | SHEET 1 OF 2 |

CANCELLED

APPROVED 13 DEC 40 REVISED (13) 15 APR 1953

| DASH NO. | TUBING OD | THD P ANPT ± .016 | THREAD T (REF) ± .016 | F ± .016 | G | M ± .016 | Y ± .016 |
|----------|-----------|----------------------|--------------------------|-------------|-------|------------------|-------------|
| -2 | 1/8 | | .3125-24UNJF-3A | | | 1.016 | |
| -3 | 3/16 | .125 | .3750-24UNJF-3A | .469 | .438 | + .003 - .004 | 1.047 |
| -4 | 1/4 | | .4375-20UNJF-3A | | .500 | | 1.109 |
| -4-4 | | .250 | | .688 | .563 | | 1.375 |
| -5 | 5/16 | .125 | .5000-20UNJF-3A | | .562 | | 1.141 625 |
| -5-4 | | .250 | | .688 | .563 | | 1.375 |
| -6-2 | 3/8 | .125 | .5625-18UNJF-3A | | .625 | ± .004 | 1.187 687 |
| -6 | | .250 | | | | | 1.375 |
| -6-6 | | .375 | | .688 | .750 | | 1.406 |
| -6-8 | | .500 | | .875 | .875 | | 1.625 |
| -7 | 1/2 | .250 | .7500-16UNJF-3A | | .813 | | 1.500 844 |
| -8 | | .375 | | .688 | | | |
| -10 | 5/8 | .500 | .8750-14UNJF-3A | .906 | .938 | | 1.828 |
| -10-12 | | .750 | | | | | 1.844 |
| -12-8 | 3/4 | .500 | | | 1.125 | | 1.953 1.062 |
| -12 | | .750 | 1.0625-12UNJ-3A | .906 | | ± .005 | |
| -12-16 | | 1.000 | | 1.062 | | | 2.187 |
| -16-12 | 1 | .750 | 1.3125-12UNJ-3A | | 1.375 | | 2.031 1.031 |
| -16 | | 1.000 | | 1.125 | | | 2.219 |
| -20 | 1-1/4 | 1.250 | 1.6250-12UNJ-3A | 1.187 | 1.688 | | 2.359 |
| -21 | | 1.000 | | | | ± .016 | 2.328 1.250 |
| -25 | 1-1/2 | 1.250 | 1.8750-12UNJ-3A | | 2.000 | | 2.547 1.344 |
| -28 | 1-3/4 | 1.500 | 2.2500-12UNJ-3A | | 2.375 | | 2.828 1.437 |
| -32 | 2 | 2.000 | 2.5000-12UNJ-3A | 1.437 | 2.625 | ± .020 | 3.109 |

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APPROVED 13 DEC 40 REVISED 13 FOR CHANGES SEE PAGES 1 & 2.

13 ENTIRE STANDARD REVISED

P. A.
AIR FORCE - 82
Other Code

AIR FORCE - 99

INTERNATIONAL
INTEREST

AIR FORCE - NAVY AERONAUTICAL STANDARD

ADAPTER, STRAIGHT, PIPE TO TUBE

AN816

PROCUREMENT SPECIFICATION
MIL - F - 5309

SUPERSEDES

SHEET 2 OF 2

DD FORM 1672-1 (COORDINATED)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE