

AS21921

NOTICE

THIS DOCUMENT HAS BEEN TAKEN DIRECTLY FROM U.S. MILITARY SPECIFICATION MS21921H, NOTICE 1 AND CONTAINS ONLY MINOR EDITORIAL AND FORMAT CHANGES REQUIRED TO BRING IT INTO CONFORMANCE WITH THE PUBLISHING REQUIREMENTS OF SAE TECHNICAL STANDARDS. THE INITIAL RELEASE OF THIS DOCUMENT IS INTENDED TO REPLACE MS21921H, NOTICE 1. ANY PART NUMBERS ESTABLISHED BY THE ORIGINAL SPECIFICATION REMAIN UNCHANGED.

THE ORIGINAL MILITARY SPECIFICATION WAS ADOPTED AS AN SAE STANDARD UNDER THE PROVISIONS OF THE SAE TECHNICAL STANDARDS BOARD (TSB) RULES AND REGULATIONS (TSB 001) PERTAINING TO ACCELERATED ADOPTION OF GOVERNMENT SPECIFICATIONS AND STANDARDS. TSB RULES PROVIDE FOR (A) THE PUBLICATION OF PORTIONS OF UNREVISED GOVERNMENT SPECIFICATIONS AND STANDARDS WITHOUT CONSENSUS VOTING AT THE SAE COMMITTEE LEVEL, AND (B) THE USE OF THE EXISTING GOVERNMENT SPECIFICATION OR STANDARD FORMAT.

UNDER DEPARTMENT OF DEFENSE POLICIES AND PROCEDURES, ANY QUALIFICATION REQUIREMENTS AND ASSOCIATED QUALIFIED PRODUCTS LISTS ARE MANDATORY FOR DOD CONTRACTS. ANY REQUIREMENT RELATING TO QUALIFIED PRODUCTS LISTS (QPL'S) HAS NOT BEEN ADOPTED BY SAE AND IS NOT PART OF THIS TECHNICAL REPORT.

SAENORM.COM : Click to view the full PDF of as21921

THIRD ANGLE PROJECTION



ISSUED 1998-08

PREPARED BY SAE COMMITTEE G-3

PROCUREMENT SPECIFICATION: 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

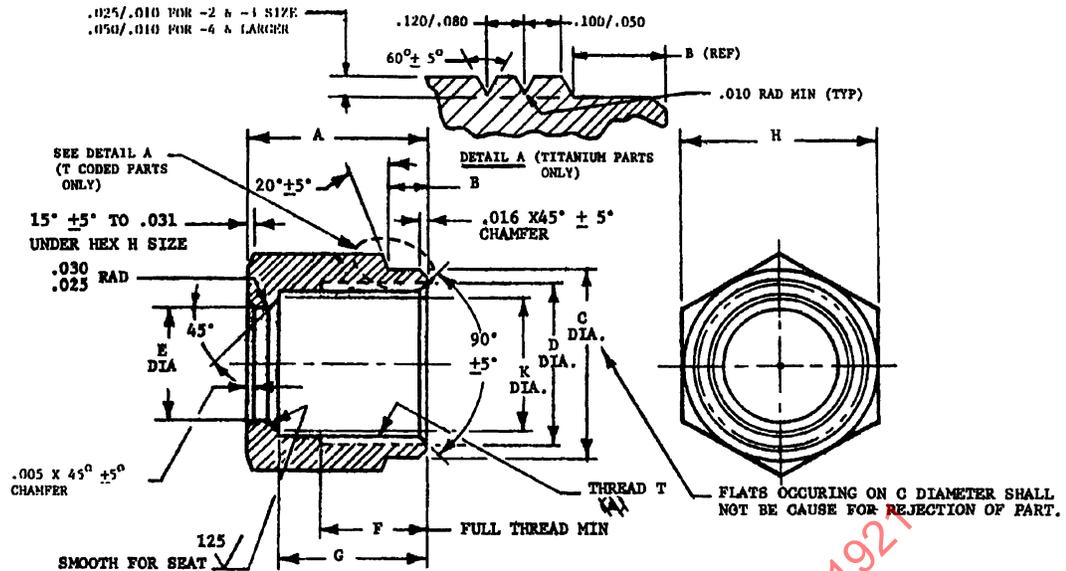
NUT, SLEEVE COUPLING, FLARELESS

AS21921
SHEET 1 OF 3

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

AS21921



(a) PARTS WITH THREADS IN ACCORDANCE WITH MIL-S-7742 OF THE SAME THREAD SIZE, PITCH AND TOLERANCE CLASS ARE ACCEPTABLE FOR PROCUREMENT UNTIL 14 JULY 1979, BUT PARTS WITH MIL-S-7742 THREADS WILL NOT BE PROCURED THEREAFTER. EXISTING STOCKS ARE TO BE USED UNTIL EXHAUSTED.

(b) USE TAP DRILL DIA FOR K EXCEPT IN SIZES 20, 24 AND 32.

(c) REVISION "r" SIZE 20 PARTS WITH G DIMENSION 0.687 AND K DIMENSION 1.456; AND SIZE 24 PARTS WITH G DIMENSION 0.687 AND K DIMENSION 1.705; ARE INACTIVE FOR DESIGN AND ARE NOT ACCEPTABLE FOR PROCUREMENT AFTER 14 JULY 1979, EXISTING STOCKS ARE TO BE USED UNTIL EXHAUSTED.

NOTES:

- MATERIAL: CARBON STEEL: BARS, RODS, PLATES AND FORGINGS
ALUMINUM ALLOY; BARS, RODS AND FORGINGS
CORROSION RESISTANT STEEL: BARS AND FORGINGS
TITANIUM ALLOY - BARS
- FINISH: SEE PROCUREMENT SPECIFICATION.
- SURFACE TEXTURE: IN ACCORDANCE WITH ANSI B46.1.
- BREAK ALL SHARP EDGES AND REMOVE ALL HANGING BURRS AND SLIVERS.
- DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS $\pm .005$, ANGLES $\pm 1/2^\circ$.
- CIRCULAR SURFACES OF DIAMETERS E, K, AND THREAD T SHALL BE CONCENTRIC WITHIN .005 TIR.
- INTERCHANGEABILITY RELATIONSHIP: MS21917 AND MS21921 PARTS IDENTIFIED BY THE SAME DASH NUMBERS ARE FUNCTIONALLY INTERCHANGEABLE. USE MS21921 AND MS21922 AS AN ASSEMBLY WHEN SUBSTITUTING FOR MS21917 AND MS21918.
- TITANIUM NOT RECOMMENDED FOR USE IN OXYGEN SYSTEMS.

SEE PROCUREMENT SPECIFICATION
NOTE: PARTS MADE FROM 1137 OR
1141 FORGINGS QUALIFIED TO MIL-
F-18280C SHALL NOT BE SUPPLIED
AFTER 30 JUNE 1984.

*CERTAIN PROVISIONS (SCREW THREADS AND HEXAGON SIZE) OF THIS STANDARD ARE THE SUBJECT OF INTERNATIONAL STANDARDIZATION AGREEMENT ASCC AIR STD 17/15. WHEN REVISION, OR CANCELLATION OF THIS STANDARD IS PROPOSED WHICH WILL AFFECT OR VIOLATE THE INTERNATIONAL AGREEMENT CONCERNED, THE PREPARING ACTIVITY WILL TAKE APPROPRIATE RECONCILIATION ACTION THROUGH INTERNATIONAL STANDARDIZATION CHANNELS, INCLUDING DEPARTMENTAL STANDARDIZATION OFFICES, IF REQUIRED.

FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.