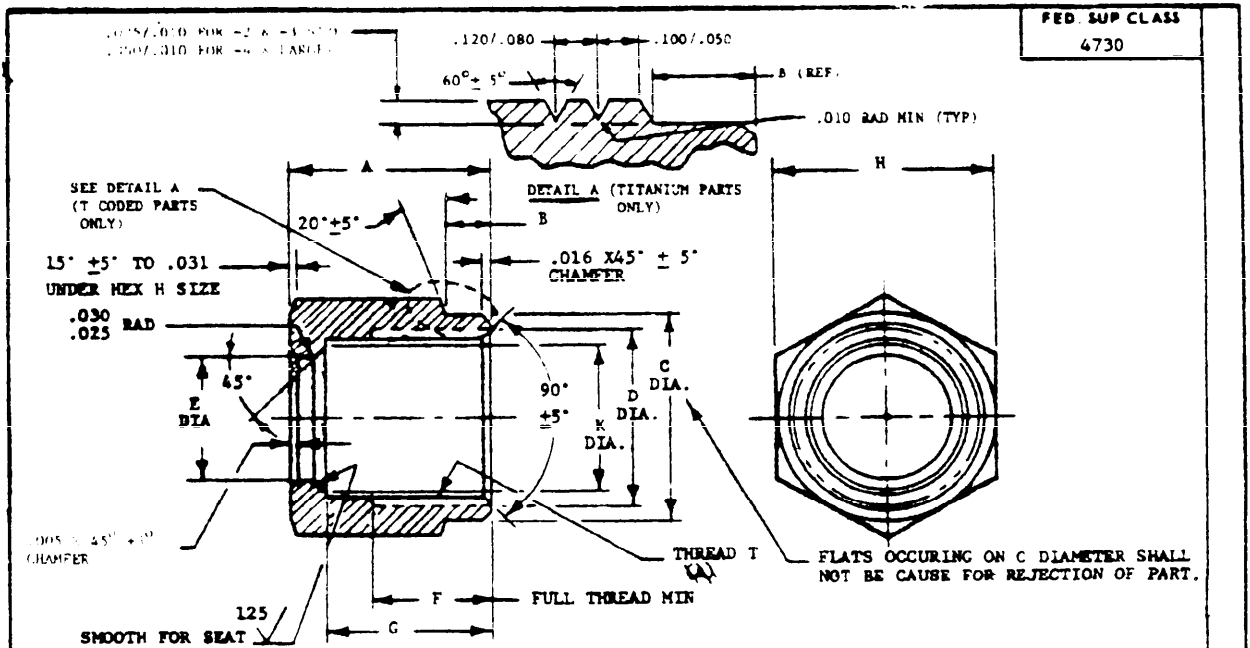


USER SYMBOLS:
NAVY - OS
ARMY - G1, CH, M1, A1

REVIEWER SYMBOLS:
ARMY - WC, M1

Review/user information is current as of the date of this document.
For future consideration of changes to this document, draft identification
should be based on the information in the current DODISS.

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



(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 "F" SIZE 20 PARTS WITH C 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:

1. MATERIAL: CARBON STEEL: BARS, RODS, PLATES AND FORGINGS
ALUMINUM ALLOY: BARS, RODS AND FORGINGS
CORROSION RESISTANT STEEL: BARS AND FORGINGS
2. FINISH: SEE PROCUREMENT SPECIFICATION.
3. SURFACE TEXTURE: IN ACCORDANCE WITH ANSI B46.1.
4. BREAK ALL SHARP EDGES AND REMOVE ALL HANGING BURRS AND SLIVERS.
5. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ± .005, ANGLES ± 1/2°.
6. CIRCULAR SURFACES OF DIAMETERS E, K, AND THREAD T SHALL BE CONCENTRIC WITHIN .005 TIR.
7. 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.
8. TITANIUM NOT RECOMMENDED FOR USE IN OXYGEN SYSTEMS.

SEE PROCUREMENT SPECIFICATION
NOTE: PARTS MADE FROM 1117 OR
1144 FORGINGS QUALIFIED TO MIL-
F-16290 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.

Ⓜ DENOTES CHANGES

P.A. NAVY - AS Other Code	INTERNATIONAL INTEREST	TITLE	MILITARY STANDARD
USAF - 99 ARMY - AV	*	NUT, SLEEVE COUPLING, FLARELESS	MS21921
PROCUREMENT SPECIFICATION MIL-F-16280	SUPERSEDES	MS 21917	SHEET 1 OF 2

DD FORM 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PROJECT NO. 4730-0161
PLATE NO. 2266A

APPROVED 27 FEB 56 REVISED 2 MAR 73 G 14 JULY 1977 H 26 JUNE 1981

USER SYMBOLS:
NAVY - N
ARMY - A
AIR FORCE - F
NAVY - N
ARMY - A
AIR FORCE - F

REVISOR SYMBOLS:
NAVY - N
ARMY - A
AIR FORCE - F

DASH NO.										FED. WP CLASS 4730				
DASH NO.	ALUMINUM ALLOY						TUBE O.D.	THREAD T (A) MIL-S-8879	A ±.010	B ±.010	C ±.005 -.000	D ±.016	E ±.005 -.000	
	CRES CLASS													
	304	316	347	INACTIVE										
-2	-2D	-2W	-2J	-2K	-2S	-2T	1/8		.53	.14	.365	.328	.171	
-3	-3D	-3W	-3J	-3K	-3S	-3T	3/16	.3750-24 UNJF-3B	.58	.10	.427	.391	.232	
-4	-4D	-4W	-4J	-4K	-4S	-4T	1/4	.4375-20 UNJF-3B	.72	.18	.552	.453	.300	
-5	-5D	-5W	-5J	-5K	-5S	-5T	5/16	.5000-20 UNJF-3B	.76		.615	.516	.366	
-6	-6D	-6W	-6J	-6K	-6S	-6T	3/8	.5625-18 UNJF-3B	.80		.677	.578	.425	
-8	-8D	-8W	-8J	-8K	-8S	-8T	1/2	.7500-16 UNJF-3B	.86	.22	.865	.766	.552	
-10	-10D	-10W	-10J	-10K	-10S	-10T	5/8	.8750-14 UNJF-3B	.98		.990	.891	.590	
-12	-12D	-12W	-12J	-12K	-12S	-12T	3/4	1.0625-12 UNJ -3B	1.00		1.240	1.078	.826	
-16	-16D	-16W	-16J	-16K	-16S	-16T	1	1.3125-12 UNJ -3B	1.05	.26	1.490	1.328	1.074	
-20	-20D	-20W	-20J	-20K	-20S	-20T	1-1/4	1.6250-12 UNJ -3B			1.990	1.641	1.330	
-24	-24D	-24W	-24J	-24K	-24S	-24T	1-1/2	1.8750-12 UNJ -3B			1.03	.22	2.236	1.891
-32	-32D	-32W	-32J	-32K	-32S	-32T	2	2.5000-12 UNJ -3B	1.12	2.365	2.562		2.080	

DASH NO.	ALUMINUM ALLOY						G ±.010	H	(b)(c) K ±.010	WEIGHT LB MAX						
	CRES CLASS									STEEL	AL ALLOY	TI ALLOY				
	304	316	347	INACTIVE												
-2	-2D	-2W	-2J	-2K	-2S	-2T	.360	.425	.375	.003	.008	.003	.004			
-3	-3D	-3W	-3J	-3K	-3S	-3T	.366	.429	.438		.010	.004	.005			
-4	-4D	-4W	-4J	-4K	-4S	-4T	.431	.547	.562		.028	.010	.016			
-5	-5D	-5W	-5J	-5K	-5S	-5T	.444	.562	.625	.004	.032	.012	.018			
-6	-6D	-6W	-6J	-6K	-6S	-6T	.422	.578	.688		.037	.014	.021			
-8	-8D	-8W	-8J	-8K	-8S	-8T	.516	.609	.675		.070	.025	.040			
-10	-10D	-10W	-10J	-10K	-10S	-10T	.578	1.000	1.250	.083	.031	.047				
-12	-12D	-12W	-12J	-12K	-12S	-12T	.562						2.000	±.016	1.482	.470
-16	-16D	-16W	-16J	-16K	-16S	-16T	.687	2.500	±.020				1.731	.530	.250	.305
-20	-20D	-20W	-20J	-20K	-20S	-20T	.678	2.250		2.295	.360	.413				
-24	-24D	-24W	-24J	-24K	-24S	-24T	.587	2.375								

(H) ITEMS CODED "C" ON PREVIOUS ISSUES OF THIS STANDARD ARE NO LONGER TO BE FURNISHED, UNLESS OTHERWISE SPECIFIED. PARTS CODED J, K, OR S (AT SUPPLIER'S OPTION) SHALL BE FURNISHED IN LIEU OF "C" CODED PARTS.

- ADD D AFTER DASH NO. FOR ALUMINUM ALLOY (2014) (2024).
- ADD W AFTER DASH NO. FOR ALUMINUM ALLOY (7075).
- ADD J AFTER DASH NO. FOR CORROSION RESISTANT STEEL, CLASS 304.
- ADD K AFTER DASH NO. FOR CORROSION RESISTANT STEEL, CLASS 316.
- ADD S AFTER DASH NO. FOR CORROSION RESISTANT STEEL, CLASS 347.
- ADD T AFTER DASH NO. FOR TITANIUM ALLOY (6AL-4V).

EXAMPLE OF PART NUMBERS: MS21921-4 - NUT, 1/4 TUBING, CARBON STEEL.
 MS21921-8D - NUT, 1/2 TUBING, ALUMINUM ALLOY (2014) (2024).
 MS21921-8W - NUT, 1/2 TUBING, ALUMINUM ALLOY (7075).
 MS21921-8J - NUT, 1/2 TUBING, CORROSION RESISTANT STEEL, CLASS 304.
 MS21921-8K - NUT, 1/2 TUBING, CORROSION RESISTANT STEEL, CLASS 316.
 MS21921-8S - NUT, 1/2 TUBING, CORROSION RESISTANT STEEL, CLASS 347.
 MS21921-8T - NUT, 1/2 TUBING, TITANIUM ALLOY (6AL-4V).

P.A. NAVY - AS Other Com. USAF - 99 ARMY - AV	INTERNATIONAL INTEREST	TITLE NUT, SLEEVE COUPLING, FLARELESS	MILITARY STANDARD MS21921
PROCUREMENT SPECIFICATION SUPERSEDES MIL-F-18280		DATE	2 OF 2

APPROVED 27 FEB 56 REVISED (H) FOR CHANGES 1-1-56