

USER SYMBOLS:

NAVY - OS
ARMY - G1, CH, M1, A1

REVIEWER SYMBOLS:

ARMY - MC, M1

"Review/revise information is correct as of the date of this document.
For future coordination of changes in this document, draft presentation
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 replacing use shall
be made from this document.

.005/.010 FOR 20, 24 & 32 .007/.010 FOR 48 & LARGER		.120/.080 .100/.050 60° ± 5° .010 RAD MIN (TYP) H (REF.) .016 X 45° ± 5° CHAMFER 20° ± 5° 15° ± 5° TO .031 UNDER HEX H SIZE .030 .025 RAD 45° E DIA. 90° ± 5° K DIA. C DIA. D DIA. F G 125 SMOOTH FOR SEAT FULL THREAD MIN THREAD T FLATS OCCURRING ON C DIAMETER SHALL NOT BE CAUSE FOR REJECTION OF PART.		FED. SUP CLASS 4730
<p>(A) PARTS WITH THREADS IN ACCORDANCE WITH MIL-S-7742 OF THE SAME THREAD SIZE, PITCH AND TOLERANCE CLASS ARE ACCEPTABLE FOR PROCUREMENT UNTIL 1 JULY 1979, BUT PARTS WITH MIL-S-7742 THREADS WILL NOT BE PROCURED THEREAFTER. EXISTING STOCKS ARE TO BE USED UNTIL EXHAUSTED.</p> <p>(b) USE TAP DRILL DIA FOR K EXCEPT IN SIZES 20, 24 AND 32.</p> <p>(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.</p>				
<p>NOTES:</p> <ol style="list-style-type: none"> 1. MATERIAL: CARBON STEEL: BARS, RODS, FLATES 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. <p>SEE PROCUREMENT SPECIFICATION NOTE: PARTS MADE FROM 1137 OR 1141 FORGINGS QUALIFIED TO MIL-F-16280 SHALL NOT BE SUPPLIED AFTER 30 JUNE 1984.</p>				
<p>* 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.</p>				
<p>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.</p>				
<p>Ⓜ DENOTES CHANGES</p>				
P.A. NAVY - AS Other Code USAF - 99 ARMY - AV	INTERNATIONAL INTEREST *	TITLE NUT, SLEEVE COUPLING, FLARELESS	MILITARY STANDARD MS21921	
PROCUREMENT SPECIFICATION MIL-F-16280	SUPERSEDES MS 21917	SHEET 1 OF 2	PLATE NO. 22064 PROJECT NO. 4730-0161	

USER SYMBOLS:
NAVY - N
ARMY - A
AIR - F, H, M, A

REVIEWER SYMBOLS:
NAVY - W, H
ARMY - W, H

Revisions/changes information is current as of the date of this document.
For future consideration of changes to this document, draft circulation
should be based on the information in the current 000159.

This military standard is approved for use by all Departments
in accordance with the provisions of Defense Standardization for all
procurement and design, specifications and for reporting and test
to make from this document.

DASH NO.										FED. WIP CLASS 4730				
DASH NO.	ALUMINUM ALLOY						TUBE O.D.	THREAD T (d) 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		.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		.865	.766	.552	
-10	-10D	-10W	-10J	-10K	-10S	-10T	5/8	.8750-14 UNJF-3B	.98	.22	.990	.891	.590	
-12	-12D	-12W	-12J	-12K	-12S	-12T	3/4	1.0625-12 UNJ -3B	1.00	.24	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	1.580	
-32	-32D	-32W	-32J	-32K	-32S	-32T	2	2.5000-12 UNJ -3B	1.12		2.365	2.562	2.030	

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		.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		.032	.012	.018	
-6	-6D	-6W	-6J	-6K	-6S	-6T	.422	.578	.688	±.003	.037	.014	.021	
-8	-8D	-8W	-8J	-8K	-8S	-8T	.516	.609	.675	±.004	.070	.025	.040	
-10	-10D	-10W	-10J	-10K	-10S	-10T	.578		1.000		.083	.031	.047	
-12	-12D	-12W	-12J	-12K	-12S	-12T			1.250		.148	.054	.085	
-16	-16D	-16W	-16J	-16K	-16S	-16T		.687	1.500		.220	.078	.126	
-20	-20D	-20W	-20J	-20K	-20S	-20T	.562		2.000	±.016	1.482	.470	.131	.271
-24	-24D	-24W	-24J	-24K	-24S	-24T		.675	2.250	±.020	1.731	.530	.250	.305
-32	-32D	-32W	-32J	-32K	-32S	-32T		.587	2.375		2.295	.360	.413	.496

(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.

(H) 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).

(H) 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 C.A. USAF - 49 ARMY - AV	INTERNATIONAL INTEREST	TITLE NUT, SLEEVE COUPLING, FLARELESS	MILITARY STANDARD MS21921
PROCUREMENT SPECIFICATION MIL-F-18280		SUPERSEDES "E" 21917	SHEET 2 OF 2

DD FORM 1672-1 (Continued)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATE NO. 2305