

REV.
C

SAE AS21921

RATIONALE

STANDARD UPDATED TO CORRECT SAE TEMPLATE TO ADD A REVISION BLOCK; EXPANDED TOLERANCES OF DIMENSION H BY INCORPORATING THE REQUIREMENTS OF ARP1201, REVISED NOTES 9 AND 10 AND GENERAL SAE UPDATING.

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS21921. THIS SAE STANDARD RETAINS THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

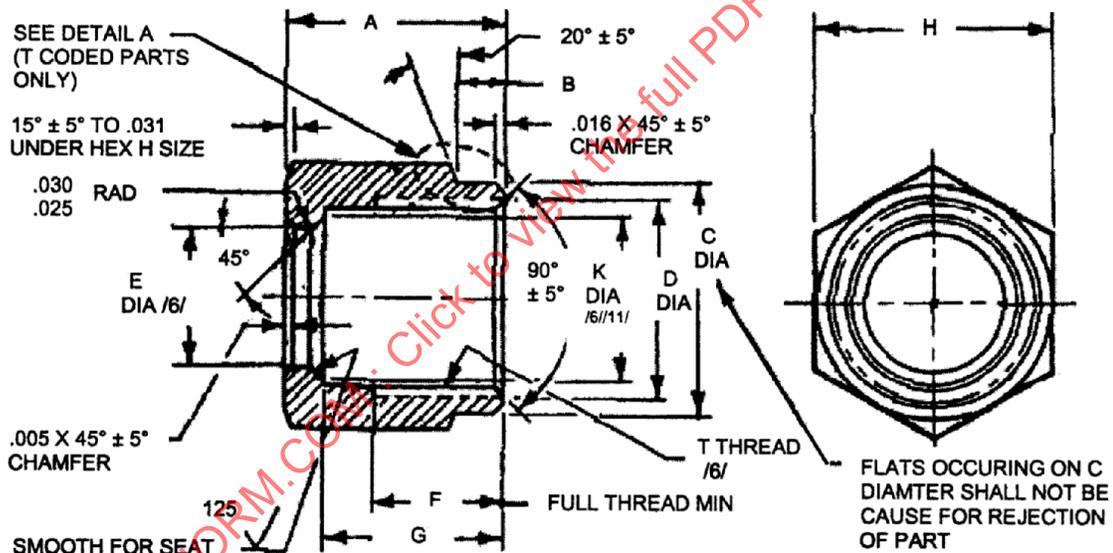
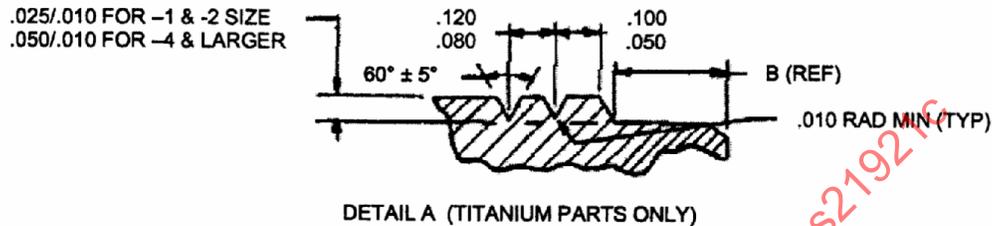
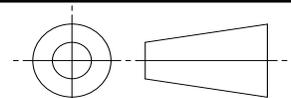


FIGURE 1 - NUT, SLEEVE COUPLING, FLARELESS

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THIRD ANGLE PROJECTION



CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: /14/ AS18280

SAE Aerospace
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AEROSPACE STANDARD

NUT, SLEEVE COUPLING, FLARELESS

SAE AS21921
SHEET 1 OF 4

REV. C

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ISSUED 1998-08 REAFFIRMED 2007-07 REVISED 2010-11

TABLE 1A - DIMENSIONS A-E

DASH NO /8/	NOMINAL TUBE SIZE	T THREAD /6/ AS8879	A ±.010	B ±.010	C +.005 -0.000	D ±.016	E /6/ +.005 -0.000
-2	.125	.3125-24 UNJF-3B	.53	.14	.365	.328	.171
-3	.188	.3750-24 UNJF-3B	.58	.10	.427	.391	.232
-4	.250	.4375-20 UNJF-3B	.72	.18	.552	.453	.300
-5	.313	.5000-20 UNJF-3B	.76	.18	.615	.516	.366
-6	.375	.5625-18 UNJF-3B	.80	.18	.677	.578	.425
-8	.500	.7500-16 UNJF-3B	.86	.18	.865	.766	.552
-10	.625	.8750-14 UNJF-3B	.98	.22	.990	.891	.690
-12	.750	1.0625-12 UNJ-3B	1.00	.24	1.240	1.078	.826
-16	1.000	1.3125-12 UNJ-3B	1.05	.26	1.490	1.328	1.074
-20	1.250	1.6250-12 UNJ-3B	1.05	.26	1.990	1.641	1.330
-24	1.500	1.8750-12 UNJ-3B	1.03	.22	2.236	1.891	1.580
-32	2.000	2.5000-12 UNJ-3B	1.12	.22	2.865	2.562	2.080

TABLE 1B - DIMENSIONS F-K

DASH NO /8/	F MIN	G ±.010	H	K ±.010 /6/ /11/	WEIGHT, LB/EA, APPROX, REF		
					STEEL	AL ALLOY	TI ALLOY
-2	.360	.425	.365 - .377	-	.008	.003	.004
-3	.366	.429	.428 - .440	-	.010	.004	.005
-4	.431	.547	.552 - .565	-	.028	.010	.016
-5	.444	.562	.615 - .630	-	.032	.012	.018
-6	.422	.578	.678 - .691	-	.037	.014	.021
-8	.516	.609	.865 - .878	-	.070	.025	.040
-10	.578	.687	.990 - 1.003	-	.083	.031	.047
-12	.562	.687	1.238 - 1.253	-	.148	.054	.085
-16	.562	.687	1.488 - 1.505	-	.220	.078	.126
-20	.562	.678	1.988 - 2.005	1.482	.470	.181	.271
-24	.562	.678	2.234 - 2.260	1.731	.530	.250	.305
-32	.562	.687	2.859 - 2.885	2.295	.860	.413	.495

NOTES:

NOTICE

THIS DOCUMENT REFERENCES A PART WHICH CONTAINS CADMIUM AS A PLATING MATERIAL. CONSULT LOCAL OFFICIALS IF YOU HAVE QUESTIONS CONCERNING CADMIUM'S USE.

1. MATERIAL

SEE PROCUREMENT SPECIFICATION.

ALLOY STEEL

ALUMINUM ALLOY

CORROSION RESISTANT STEEL

TITANIUM ALLOY

2. FINISH: SEE PROCUREMENT SPECIFICATION.

3. BREAK EDGES .003 TO .015 UNLESS OTHERWISE SPECIFIED.

4. DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ±.005, ANGLES ±0 DEGREES 30'.

 An SAE International Group	AEROSPACE STANDARD	SAE AS21921 SHEET 2 OF 4	REV. C
	NUT, SLEEVE COUPLING, FLARELESS		

5. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M; REQUIREMENTS PER ASME B46.1; UNLESS OTHERWISE SPECIFIED MACHINED SURFACES SHALL BE 125 Ra.
- /6/ CIRCULAR SURFACES OF DIAMETERS E, K, AND THREAD T SHALL BE CONCENTRIC WITHIN .005.
7. INTERCHANGEABILITY RELATIONSHIP: MS21917 AND MS21921 PARTS IDENTIFIED BY THE SAME DASH NUMBERS ARE FUNCTIONALLY INTERCHANGEABLE. USE MS21921 AND MS21922 AS ASSEMBLY WHEN SUBSTITUTING FOR MS21917 AND MS21918.

/8/ PART NUMBERS:

DASH "" IN PART NUMBER FOR 4130 ALLOY STEEL IS CANCELLED AND REPLACED, SEE TABLE 2 /A/
 ADD "V(SIZE)P" IN PLACE OF DASH FOR CORROSION RESISTANT STEEL (15-5PH), CADMIUM PLATED
 ADD "V" IN PLACE OF DASH FOR CORROSION RESISTANT STEEL (15-5PH), NOT CADMIUM PLATED
 ADD "D" AFTER DASH NUMBER FOR ALUMINUM ALLOY (2024): CANCELLED AND REPLACED, SEE TABLE 2 /C/
 ADD "W" AFTER DASH NUMBER FOR ALUMINUM ALLOY (7075)
 ADD "J" AFTER DASH NUMBER FOR CORROSION RESISTANT STEEL (TYPE 304)
 ADD "K" AFTER DASH NUMBER FOR CORROSION RESISTANT STEEL (TYPE 316)
 ADD "R" AFTER DASH NUMBER FOR CORROSION RESISTANT STEEL (TYPE 321)
 ADD "S" AFTER DASH NUMBER FOR CORROSION RESISTANT STEEL (TYPE 347): CANCELLED, SEE TABLE 2 /D/
 ADD "T" AFTER DASH NUMBER FOR TITANIUM ALLOY (6AL-4V)

EXAMPLES OF PART NUMBERS:

MS21921-4	NUT, .250 TUBING, 4130 ALLOY STEEL IS CANCELLED AND REPLACED, SEE TABLE 2 /A/
MS21921V4P	NUT, .250 TUBING, CORROSION RESISTANT STEEL (15-5PH), CADMIUM PLATED
MS21921V4	NUT, .250 TUBING, CORROSION RESISTANT STEEL (15-5PH), NOT CADMIUM PLATED
MS21921-4D	NUT, .250 TUBING, ALUMINUM ALLOY (2024) IS CANCELLED AND REPLACED, SEE TABLE 2 /C/
MS21921-4W	NUT, .250 TUBING, ALUMINUM ALLOY (7075)
MS21921-4J	NUT, .250 TUBING, CORROSION RESISTANT STEEL (TYPE 304)
MS21921-4K	NUT, .250 TUBING, CORROSION RESISTANT STEEL (TYPE 316)
MS21921-4R	NUT, .250 TUBING, CORROSION RESISTANT STEEL (TYPE 321)
MS21921-4S	NUT, .250 TUBING, CORROSION RESISTANT STEEL (TYPE 347) IS CANCELLED, SEE TABLE 2 /D/
MS21921-4T	NUT, .250 TUBING, TITANIUM ALLOY (6AL-4V)

9. PART MARKING: SEE PROCUREMENT SPECIFICATION.

10. DIMENSIONING AND TOLERANCING: ASME Y14.5M-1994.

/11/ USE TAP DRILL DIA FOR K EXCEPT IN SIZES 20, 24 AND 32.

12. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

13. IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS STANDARD AND THE REFERENCES CITED HEREIN, THE TEXT OF THIS STANDARD SHALL TAKE PRECEDENCE.

/14/ PROCUREMENT SPECIFICATION: AS18280 EXCEPT AS SPECIFIED ON THIS STANDARD. PRODUCT SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED BY AN ACCREDITED MANUFACTURER LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCTS LIST (QPL) PRI-QPL-AS18280 FOR THIS STANDARD. SEE www.eauditnet.com FOR CURRENT QPL ON-LINE.

15. A CHANGE BAR (I) LOCATED IN THE LEFT MARGIN IS FOR THE CONVENIENCE OF THE USER IN LOCATING AREAS WHERE TECHNICAL REVISIONS, NOT EDITORIAL CHANGES, HAVE BEEN MADE TO THE PREVIOUS ISSUE OF THIS DOCUMENT. AN (R) SYMBOL TO THE LEFT OF THE DOCUMENT TITLE INDICATES A COMPLETE REVISION OF THE DOCUMENT, INCLUDING TECHNICAL REVISIONS. CHANGE BARS AND (R) ARE NOT USED IN ORIGINAL PUBLICATIONS NOR IN DOCUMENTS THAT CONTAIN EDITORIAL CHANGES ONLY.

16. INTERPRETATION OF DRAWING PER ARP4296.

 An SAE International Group	AEROSPACE STANDARD	SAE AS21921 SHEET 3 OF 4	REV. C
	NUT, SLEEVE COUPLING, FLARELESS		