

REV.
C

AS21915

FEDERAL SUPPLY CLASS
4730

RATIONALE

AS21915C HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

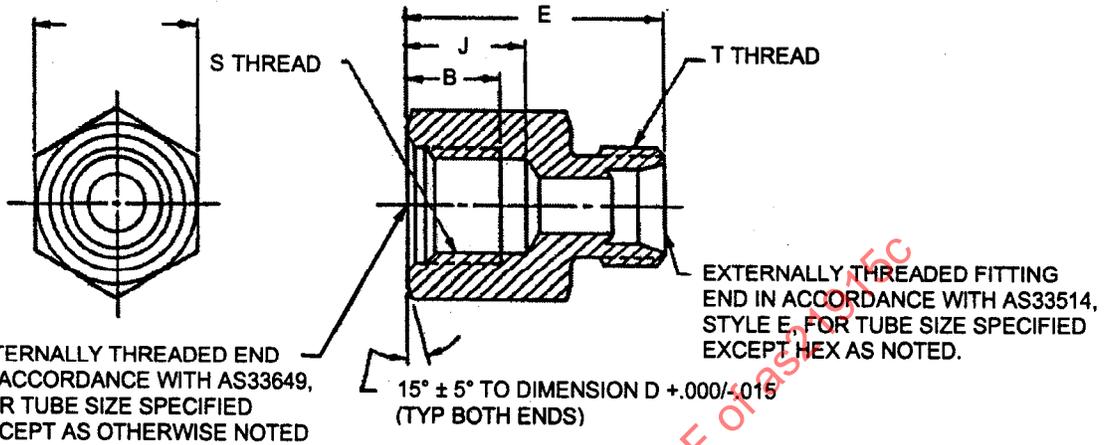
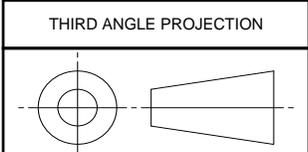


FIGURE 1 - ADAPTER, STRAIGHT, TUBE TO BOSS

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CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS18280



AEROSPACE STANDARD

ADAPTER, STRAIGHT, TUBE TO BOSS

AS21915
SHEET 1 OF 5

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ISSUED 1998-03 REVISED 2008-06 REAFFIRMED 2015-04

TABLE 1A - DIMENSIONS B AND J

DASH NO. /9/	INTERNALLY THREADED END		EXTERNALLY THREADED END		B FULL THREAD MIN	J +.032 -.000
	NOMINAL TUBE SIZE	S THREAD AS8879	NOMINAL TUBE SIZE	T THREAD AS8897		
-3-2	.188	.3750-24 UNJF-3B	.125	.3125-24 UNJF-3A	.406	.500
-4-2	.250	.4375-20 UNJF-3B	.125	.3125-24 UNJF-3A	.438	.594
-4-3	.250	.4375-20 UNJF-3B	.188	.3750-24 UNJF-3A	.438	.594
-5-4	.313	.5000-20 UNJF-3B	.250	.4375-20 UNJF-3A	.438	.594
-6-4	.375	.5625-18 UNJF-3B	.250	.4375-20 UNJF-3A	.469	.594
-6-5	.375	.5625-18 UNJF-3B	.313	.5000-20 UNJF-3A	.469	.594
-8-4	.500	.7500-16 UNJF-3B	.250	.4375-20 UNJF-3A	.562	.718
-8-5	.500	.7500-16 UNJF-3B	.313	.5000-20 UNJF-3A	.562	.718
-8-6	.500	.7500-16 UNJF-3B	.375	.5625-18 UNJF-3A	.562	.718
-10-4	.625	.8750-14 UNJF-3B	.250	.4375-20 UNJF-3A	.625	.781
-10-5	.625	.8750-14 UNJF-3B	.313	.5000-20 UNJF-3A	.625	.781
-10-6	.625	.8750-14 UNJF-3B	.375	.5625-18 UNJF-3A	.625	.781
-10-8	.625	.8750-14 UNJF-3B	.500	.7500-18 UNJF-3A	.625	.781
-12-6	.750	1.0625-12 UNJ-3B	.375	.5625-18 UNJF-3A	.688	.906
-12-8	.750	1.0625-12 UNJ-3B	.500	.7500-16 UNJF-3A	.688	.906
-12-10	.750	1.0625-12 UNJ-3B	.625	.8750-14 UNJF-3A	.688	.906
-16-6	1.000	1.3125-12 UNJ-3B	.375	.5625-18 UNJF-3A	.688	.938
-16-8	1.000	1.3125-12 UNJ-3B	.500	.7500-16 UNJF-3A	.688	.938
-16-10	1.000	1.3125-12 UNJ-3B	.625	.8750-14 UNJF-3A	.688	.938
-16-12	1.000	1.3125-12 UNJ-3B	.750	1.0625-12 UNJ-3A	.688	.938
-20-8	1.250	1.6250-12 UNJ-3B	.500	.7500-16 UNJF-3A	.688	.984
-20-10	1.250	1.6250-12 UNJ-3B	.625	.8750-14 UNJF-3A	.688	.984
-20-12	1.250	1.6250-12 UNJ-3B	.750	1.0625-12 UNJ-3A	.688	.984
-20-16	1.250	1.6250-12 UNJ-3B	1.000	1.3125-12 UNJ-3A	.688	.984

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TABLE 1B - DIMENSIONS D AND E

DASH NO. /5/, /9/	OVERALL		WEIGHT, LB/EA, APPROX, REF.		
	D	E	STEEL	AL ALLOY	TI ALLOY
-3-2	.621- .629	1.125	.070	.025	.040
-4-2	.684- .692	1.234	.078	.027	.045
-4-3	.684- .692	1.250	.079	.028	.045
-5-4	.746- .754	1.281	.086	.032	.049
-6-4	.809- .817	1.313	.104	.037	.060
-6-5	.809- .817	1.281	.110	.038	.063
-8-4	.996-1.004	1.484	.120	.059	.069
-8-5	.996-1.004	1.453	.125	.060	.072
-8-6	.996-1.004	1.469	.130	.061	.075
-10-4	1.120-1.130	1.578	.175	.069	.100
-10-5	1.120-1.130	1.563	.206	.073	.118
-10-6	1.120-1.130	1.563	.210	.076	.121
-10-8	1.120-1.130	1.656	.230	.080	.132
-12-6	1.370-1.380	1.734	.360	.127	.207
-12-8	1.370-1.380	1.828	.370	.133	.213
-12-10	1.370-1.380	1.891	.380	.138	.219
-16-6	1.609-1.641	1.844	.515	.188	.297
-16-8	1.609-1.641	1.938	.496	.182	.286
-16-10	1.609-1.641	1.984	.510	.188	.294
-16-12	1.609-1.641	2.031	.550	.195	.317
-20-8	1.859-1.891	2.078	.655	.240	.377
-20-10	1.859-1.891	2.125	.655	.240	.377
-20-12	1.859-1.891	2.156	.665	.232	.383
-20-16	1.859-1.891	2.078	.625	.224	.360

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 ±0.016, ANGLES ±0°30'.

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5/ 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" IN PLACE OF DASH FOR ALUMINUM ALLOY (2024): CANCELLED AND REPLACED, SEE TABLE 2 /C/
 ADD "W" IN PLACE OF DASH FOR ALUMINUM ALLOY (7075)
 ADD "J" IN PLACE OF DASH FOR CORROSION RESISTANT STEEL (TYPE 304)
 ADD "K" IN PLACE OF DASH 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:

MS21915-8-4	ADAPTER, .500 TUBING (INTERNAL THD) TO .250 TUBING (EXTERNAL THD), 4130 ALLOY STEEL IS CANCELLED AND REPLACED, SEE TABLE 2 /A/
MS21915V8-4P	ADAPTER, .500 TUBING (INTERNAL THD) TO .250 TUBING (EXTERNAL THD), CORROSION RESISTANT STEEL (15-5PH), CADMIUM PLATED
MS21915V8-4	ADAPTER, .500 TUBING (INTERNAL THD) TO .250 TUBING (EXTERNAL THD), CORROSION RESISTANT STEEL (15-5PH), NOT CADMIUM PLATED
MS21915D8-4	ADAPTER, .500 TUBING (INTERNAL THD) TO .250 TUBING (EXTERNAL THD), ALUMINUM ALLOY (2024) IS CANCELLED AND REPLACED, SEE TABLE 2 /C/
MS21915W8-4	ADAPTER, .500 TUBING (INTERNAL THD) TO .250 TUBING (EXTERNAL THD), ALUMINUM ALLOY (7075)
MS21915J8-4	ADAPTER, .500 TUBING (INTERNAL THD) TO .250 TUBING (EXTERNAL THD), CORROSION RESISTANT STEEL (TYPE 304)
MS21915K8-4	ADAPTER, .500 TUBING (INTERNAL THD) TO .250 TUBING (EXTERNAL THD), CORROSION RESISTANT STEEL (TYPE 316)
MS21915-8-4R	ADAPTER, .500 TUBING (INTERNAL THD) TO .250 TUBING (EXTERNAL THD), CORROSION RESISTANT STEEL (TYPE 321)
MS21915-8-4S	ADAPTER, .500 TUBING (INTERNAL THD) TO .250 TUBING (EXTERNAL THD), CORROSION RESISTANT STEEL (TYPE 347) IS CANCELLED, SEE TABLE 2 /D/
MS21915-8-4T	ADAPTER, .500 TUBING (INTERNAL THD) TO .250 TUBING (EXTERNAL THD), TITANIUM ALLOY (6AL-4V)

6. TITANIUM SHALL NOT BE USED FOR OXYGEN SYSTEMS.
7. SEE TABLE 2 FOR CANCELLED AND SUPERSEDED DOCUMENT AND PART NUMBERS.
8. THE PART NUMBERS FOR CANCELED DOCUMENT MS21915 AND THE PART NUMBERS FOR THE SUPERSEDING DOCUMENT AS21915 ARE IDENTICAL.
- 9/ THE DASH NUMBERS IN THE PART NUMBER ARE CODED FOR THE TWO EQUIVALENT TUBE SIZES, EXPRESSED IN SIXTEENTHS. FOR EXAMPLE: MS21915-4-3 REFERS TO A CARBON STEEL FITTING WITH AN INTERNALLY THREADED END FOR .250 OD TUBE AND AN EXTERNALLY THREADED END FOR .188 OD TUBE.
10. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.
11. 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.
12. PRODUCT SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED BY AN ACCREDITED MANUFACTURER AS LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCTS LIST PRI-QPL-AS18280 FOR THIS STANDARD. SEE <http://www.eauditnet.com> FOR CURRENT QPL ONLINE.
13. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M; REQUIREMENTS PER ASME B46.1; UNLESS OTHERWISE SPECIFIED MACHINED SURFACES SHALL BE 125 Ra.

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