

REV.
B

AS21915

FEDERAL SUPPLY CLASS
4730

RATIONALE

THIS DOCUMENT HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE 5-YEAR REVIEW POLICY.

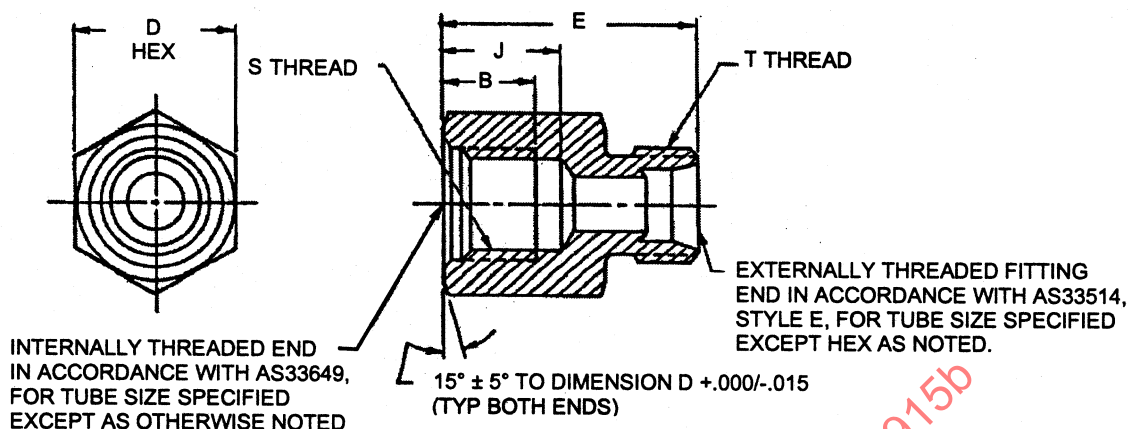


FIGURE 1 - ADAPTER, STRAIGHT, TUBE TO BOSS

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

CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: AS18280

SAE Aerospace
An SAE International Group

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AEROSPACE STANDARD

ADAPTER, STRAIGHT, TUBE TO BOSS

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REV. B	TABLE 1B - DIMENSIONS D AND E					
	DASH NO. /9/	OVERALL		WEIGHT, LB/EA, APPROX, REF.		
AS21915		D HEX	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:						
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 ±.016, ANGLES ±0°30'.						
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REV. B	5. PART NUMBERS: DASH “-” IN PART NUMBER FOR 4130 ALLOY STEEL IS CANCELLED AND REPLACED, SEE 7 /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 7 /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 7 /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 7 /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 7 /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 7 /D/ MS21915-8-4T ADAPTER, .500 TUBING (INTERNAL THD) TO .250 TUBING (EXTERNAL THD), TITANIUM ALLOY (6AL-4V) 6. TITANIUM NOT RECOMMENDED FOR USE IN 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. USERS OF THIS STANDARD SHALL PROCURE THE PRODUCT FROM ACCREDITED MANUFACTURERS OR ACCREDITED DISTRIBUTORS AS LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCTS LIST PRI-QPL-AS18280 FOR THIS STANDARD. SEE http://www.pri.sae.org/QPL/as18280.pdf FOR CURRENT QPL ONLINE. NOTE THAT MANUFACTURERS ARE ACCREDITED BY PART NUMBER, SIZE AND MATERIALS ON PRI-QPL-AS18280. 13. THE 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. 14. INTERPRETATION OF DRAWING PER ARP4296.
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