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REV.
F

AS21925™

FEDERAL SUPPLY CLASS
4730

RATIONALE

REVISE TABLE 2 TO REFLECT PROPER LOCATION OF MATERIAL LETTER CODE IN PART NUMBER CALLOUT FOR MATERIAL D.

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS21925. THIS SAE STANDARD MAY RETAIN THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT. PROCUREMENT OF MS21925 PART NUMBERS TO THIS "AS" STANDARD MAY RESULT IN LOSS OF CONFIGURATION CONTROL WHERE DIFFERENCES IN THE CANCELLED MIL-F-18280 AND THE SUPERSEDING AS18280 PROCUREMENT SPECIFICATIONS EXIST.

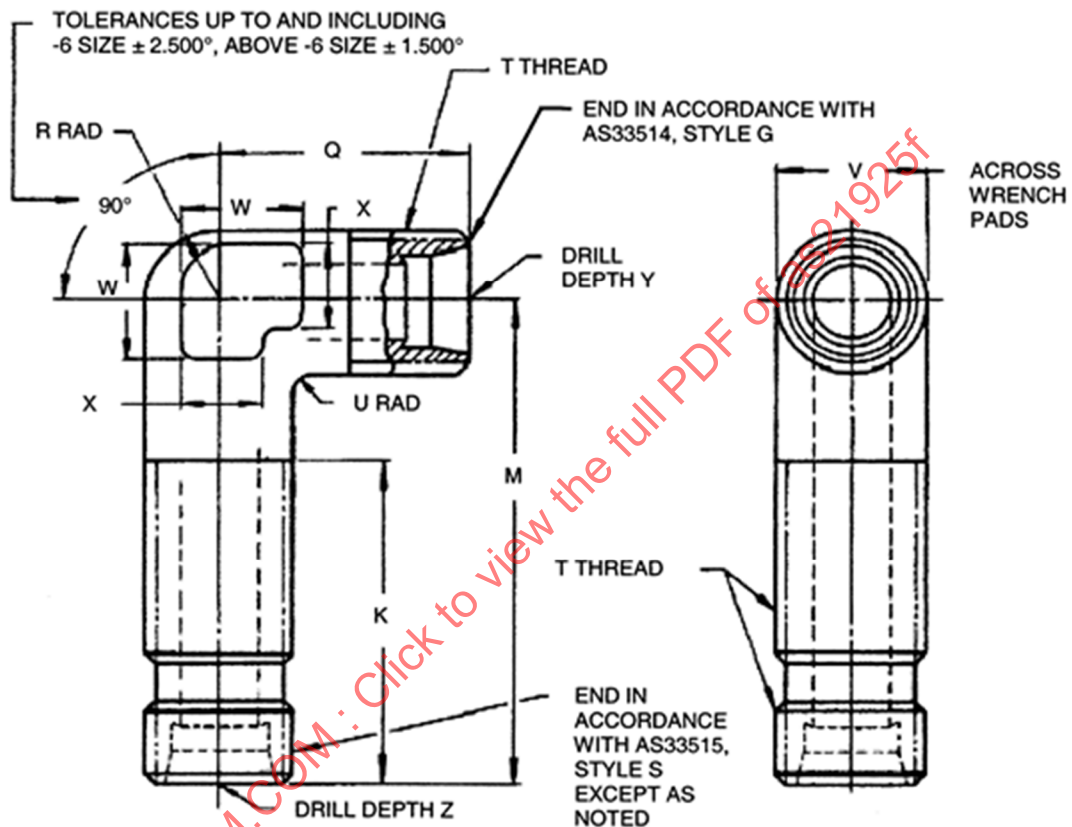
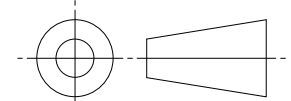


FIGURE 1 - ELBOW, 90° UNIVERSAL, FLARELESS TUBE, HIGH PROFILE

For more information on this standard, visit
<https://www.sae.org/standards/content/AS21925f>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS18280 /12/



AEROSPACE STANDARD

ELBOW, 90° UNIVERSAL,
FLARELESS TUBE,
HIGH PROFILE

AS21925™
SHEET 1 OF 4

REV.
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ISSUED 1998-07 REAFFIRMED 2007-07 REVISED 2024-01

TABLE 1A - DIMENSIONS K-U

DASH NO. /5/	NOMINAL TUBE SIZE REF	(T) THREAD AS8879	K MIN FULL THD	M +.047 -.000	Q +.047 -.000	R	U
-4	.250	.4375-20 UNJF-3A	.81	1.756	.940	.218	.062
-5	.313	.5000-20 UNJF-3A	.81	1.846	1.030	.250	.062
-6	.375	.5625-18 UNJF-3A	.85	2.076	1.060	.281	.093
-8	.500	.7500-16 UNJF-3A	1.01	2.545	1.310	.375	.093
-10	.625	.8750-14 UNJF-3A	1.14	3.065	1.500	.437	.125
-12	.750	1.0625-12 UNJ-3A	1.25	3.375	1.620	.531	.125
-16	1.000	1.3125-12 UNJ-3A	1.25	3.755	1.720	.656	.125
-20	1.250	1.6250-12 UNJ-3A	1.25	4.335	2.000	.812	.187

TABLE 1B - DIMENSIONS V-Z

DASH NO. /5/	V	W APPROX	X APPROX	Y +.047 -.000	Z +.047 -.000	WEIGHT, LB/EA, APPROX, REF		
						STEEL	AL ALLOY	TI ALLOY
-4	.437	.375	.250	.969	1.790	.085	.031	.049
-5	.500	.500	.312	1.062	1.880	-	-	-
-6	.562	.500	.312	1.094	2.110	.148	.054	.085
-8	.750	.625	.438	1.344	2.580	.319	.117	.184
-10	.875	.750	.438	1.562	3.130	-	-	-
-12	1.060	.875	.500	1.719	3.470	-	-	-
-16	1.310	1.062	.625	1.812	3.850	1.203	.442	.694
-20	1.620	1.250	.750	2.125	4.460	-	-	-

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:

REFER TO PROCUREMENT SPECIFICATION
 ALLOY STEEL
 ALUMINUM ALLOY
 CORROSION-RESISTANT STEEL
 TITANIUM ALLOY

2. FINISH: REFER TO PROCUREMENT SPECIFICATION.

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

4. DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS $\pm .016$, ANGLES $\pm 0^{\circ}30'$.

AEROSPACE STANDARD

ELBOW, 90° UNIVERSAL,
 FLARELESS TUBE,
 HIGH PROFILE

AS21925™
 SHEET 2 OF 4

REV.
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/5/ PART NUMBER:

MATERIAL CODE DASH "-" IN PART NUMBER FOR 4130 ALLOY STEEL.

ADD MATERIAL CODE "V(SIZE)P" IN PLACE OF DASH FOR CORROSION-RESISTANT STEEL (15-5PH), CADMIUM PLATED.

ADD MATERIAL CODE "V" IN PLACE OF DASH FOR CORROSION-RESISTANT STEEL (15-5PH), NOT CADMIUM PLATED

ADD MATERIAL CODE "D" AFTER DASH NUMBER FOR ALUMINUM ALLOY (2014).

ADD MATERIAL CODE "W" IN PLACE OF DASH FOR ALUMINUM ALLOY (7075).

ADD MATERIAL CODE "J" IN PLACE OF DASH FOR CORROSION-RESISTANT STEEL (TYPE 304).

ADD MATERIAL CODE "K" IN PLACE OF DASH FOR CORROSION-RESISTANT STEEL (TYPE 316).

ADD MATERIAL CODE "R" AFTER DASH NUMBER FOR CORROSION-RESISTANT STEEL (TYPE 321).

ADD MATERIAL CODE "S" AFTER DASH NUMBER FOR CORROSION-RESISTANT STEEL (TYPE 347). /17D/

ADD MATERIAL CODE "T" AFTER DASH FOR TITANIUM ALLOY (6AL-4V).

EXAMPLES OF PART NUMBERS:

MS21925-4 ELBOW, .250 TUBING, 4130 ALLOY STEEL.

MS21925V4P ELBOW, .250 TUBING, CORROSION-RESISTANT STEEL (15-5PH), CADMIUM PLATED. SEE TABLE 2. /17A/

MS21925V4 ELBOW, .250 TUBING, CORROSION-RESISTANT STEEL (15-5PH), NOT CADMIUM PLATED.

MS21925-4D ELBOW, .250 TUBING, ALUMINUM ALLOY (2014). SEE TABLE 2. /17C/

MS21925W4 ELBOW, .250 TUBING, ALUMINUM ALLOY (7075).

MS21925J4 ELBOW, .250 TUBING, CORROSION-RESISTANT STEEL (TYPE 304).

MS21925K4 ELBOW, .250 TUBING, CORROSION-RESISTANT STEEL (TYPE 316).

MS21925-4R ELBOW, .250 TUBING, CORROSION-RESISTANT STEEL (TYPE 321).

MS21925-4S ELBOW, .250 TUBING, CORROSION-RESISTANT STEEL (TYPE 347). (REPLACED) SEE TABLE 2. /17D/

MS21925-4T ELBOW, .250 TUBING, TITANIUM ALLOY (6AL-4V).

6. PART MARKING: REFER TO PROCUREMENT SPECIFICATION.

7. DIMENSIONING AND TOLERANCING: ASME Y14.5M-1982.

8. REVISION INDICATOR: 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.

9. INVENTORIED PARTS CONFORMING TO THE PREVIOUS LETTER CHANGE MAY BE USED TO DEPLETION.

10. REFERENCED DOCUMENTS ARE THE ISSUES 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/ PROCUREMENT SPECIFICATION: AS18280, EXCEPT AS SPECIFIED IN THIS STANDARD. PRODUCT MANUFACTURED TO THIS STANDARD SHALL MEET THE REQUIREMENTS SPECIFIED HEREIN AND THE PROCUREMENT SPECIFICATION. ORIGINAL COMPONENT MANUFACTURERS (OCM) SHALL BE LISTED IN THE PRI QUALIFIED PRODUCTS LIST (QPL) PRI-QPL-AS18280 FOR THIS STANDARD. SEE 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 MICROINCHES Ra.

14. INTERPRETATION OF DRAWING PER AS4296.

15. FLUID PASSAGE, HOLE CONTOUR: AS4266 (OPTIONAL).

16. WHEN MACHINED FROM BAR OR OVERSIZE FORGING, THE CENTER BODY DIMENSIONS SHALL CONFORM TO AS1376, TABLE 1.

	AEROSPACE STANDARD	AS21925™ SHEET 3 OF 4	REV. F
	ELBOW, 90° UNIVERSAL, FLARELESS TUBE, HIGH PROFILE		