

RATIONALE

AS21925C HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

REV.  
C

AS21925

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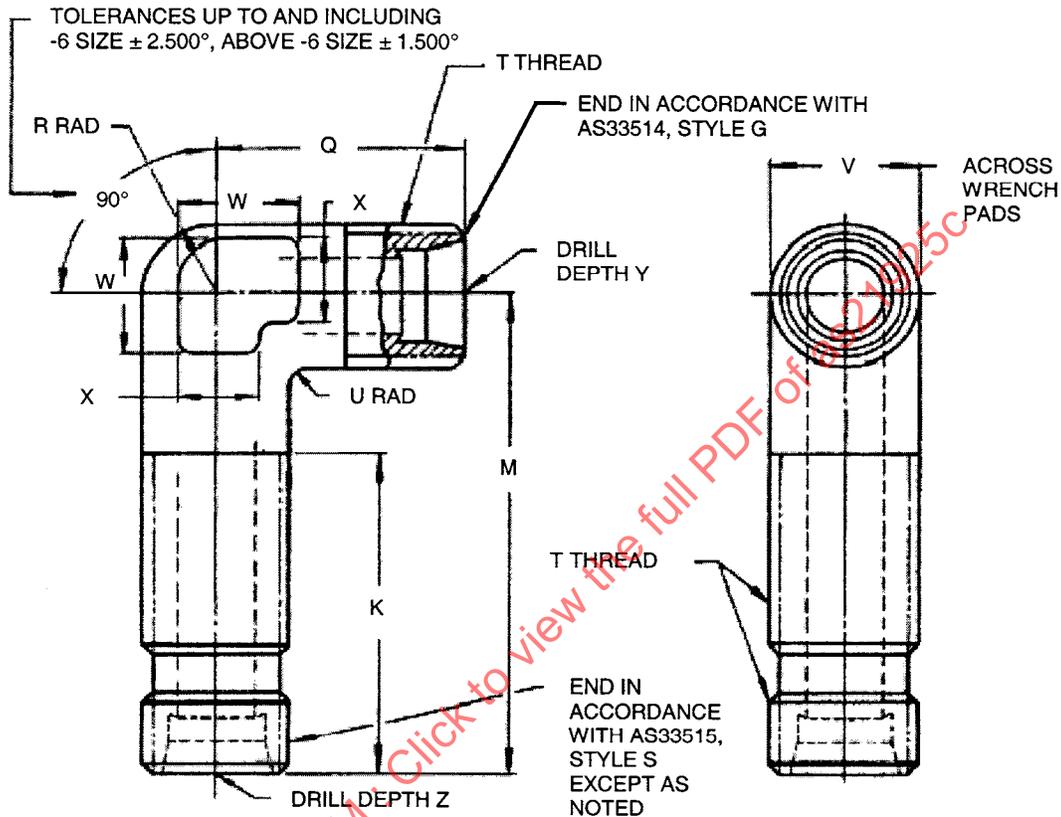
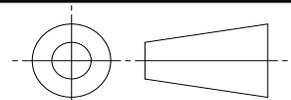


FIGURE 1 - ELBOW, 90° UNIVERSAL, FLARELESS TUBE, HIGH PROFILE

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS21925C>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /10/ AS18280



**AEROSPACE STANDARD**

ELBOW, 90° UNIVERSAL, FLARELESS TUBE, HIGH PROFILE

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SHEET 1 OF 4

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TABLE 1A - DIMENSIONS K-U

DASH NO. /5/	NOMINAL TUBE SIZE	T THREAD AS8879	K	M	Q	R	U
			MIN FULL THD	+ .047 - .000	+ .047 - .000		
-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	X	Y	Z	WEIGHT, LB/EA, APPROX, REF.		
		APPROX	APPROX	+ .047 - .000	+ .047 - .000	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	3.860	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:

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  $\pm 0.016$ , ANGLES  $\pm 0^{\circ}30'$ .

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5/ PART NUMBER:

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 (2014): 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 FOR TITANIUM ALLOY (6AL-4V).

EXAMPLES OF PART NUMBERS:

MS21925-4	ELBOW, .250 TUBING, 4130 ALLOY STEEL IS CANCELLED AND REPLACED, SEE TABLE 2 /A/
MS21925V4P	ELBOW, .250 TUBING, CORROSION RESISTANT STEEL (15-5PH), CADMIUM PLATED
MS21925V4	ELBOW, .250 TUBING, CORROSION RESISTANT STEEL (15-5PH), NOT CADMIUM PLATED
MS21925-4D	ELBOW, .250 TUBING, ALUMINUM ALLOY (2014) IS CANCELLED AND REPLACED, SEE TABLE 2 /C/
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) IS CANCELLED, SEE TABLE 2 /D/
MS21925-4T	ELBOW, .250 TUBING, TITANIUM ALLOY (6AL-4V).

- TITANIUM SHALL NOT BE USED FOR OXYGEN SYSTEMS.
- INACTIVE FOR DESIGN IN BOSS INSTALLATIONS.
- A CHANGE BAR (1) 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.
- SEE TABLE 2 FOR CANCELLED AND SUPERSEDED DOCUMENT AND PART NUMBERS.
- REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.
- 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.
- 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.
- SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M; REQUIREMENTS PER ASME B46.1; UNLESS OTHERWISE SPECIFIED MACHINED SURFACES SHALL BE 125 Ra.
- INTERPRETATION OF DRAWING PER ARP4296.
- FLUID PASSAGE, HOLE CONTOUR: ARP4266 (OPTIONAL)

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