

REV.
B

AS21904

FEDERAL SUPPLY CLASS
4730

RATIONALE

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

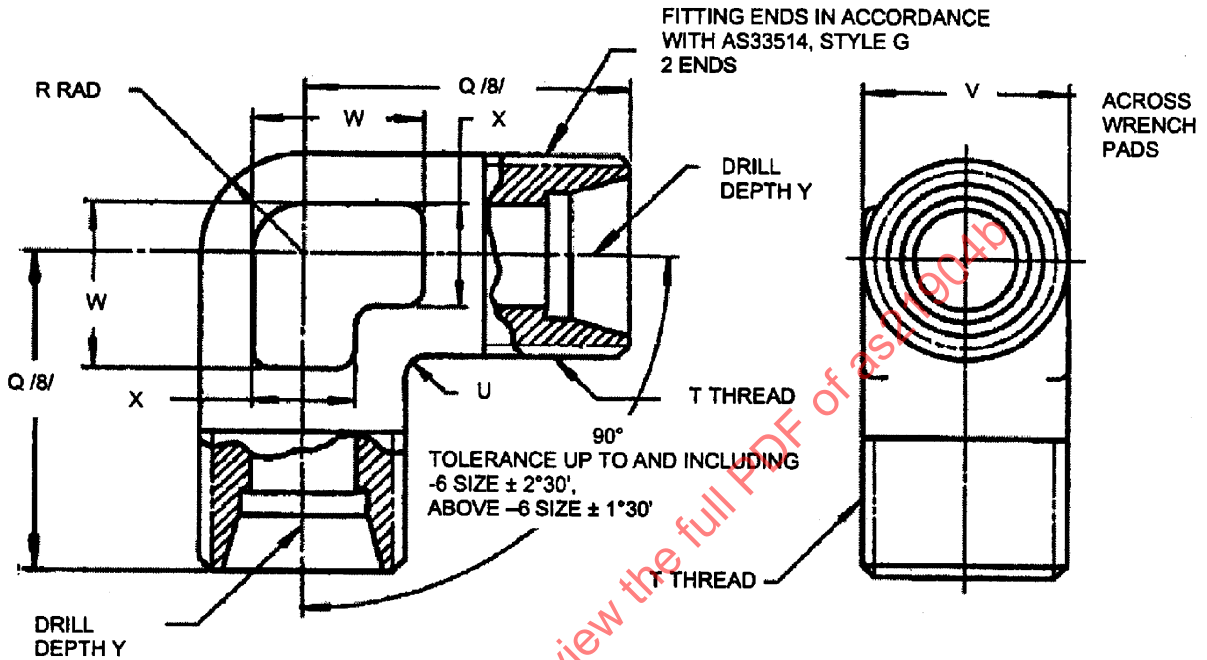


FIGURE 1 - ELBOW, FLARELESS TUBE, 90°

CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: AS18280

SAE Aerospace
An SAE International Group

(R)

AEROSPACE STANDARD

ELBOW, FLARELESS TUBE, 90°

AS21904
SHEET 1 OF 4

**REV.
B**

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ISSUED 1998-03 REVISED 2003-06 REAFFIRMED 2007-07

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TABLE 1A - DIMENSIONS G-V

DASH NO.	NOMINAL TUBE SIZE	T THREAD AS8879	Q /8/ +.047 -.000	R RAD	U RAD	V
-2	.125	.3125-24 UNJF-3A	.75	.156	.063	.313
-3	.188	.3750-24 UNJF-3A	.813	.188	.063	.875
-4	.250	.4375-20 UNJF-3A	.875	.219	.063	.438
-5	.313	.5000-20 UNJF-3A	.938	.250	.063	.500
-6	.375	.5625-18 UNJF-3A	1.031	.281	.094	.563
-8	.500	.7500-16 UNJF-3A	1.250	.375	.094	.750
-10	.625	.8750-14 UNJF-3A	1.406	.438	.094	.875
-12	.750	1.0625-12 UNJ-3A	1.563	.531	.094	1.063
-16	1.000	1.3125-12 UNJ-3A	1.719	.656	.125	1.313
-20	1.250	1.6250-12 UNJ-3A	1.875	.813	.125	1.625
-24	1.500	1.8750-12 UNJ-3A	2.000	.938	.125	1.875
-32	2.000	2.5000-12 UNJ-3A	2.438	1.250	.250	2.563

TABLE 1B - DIMENSIONS W-Y

DASH NO.	W APPROX	X APPROX	Y +.047 -.000	WEIGHT, LB/EA, APPROX, REF.		
				STEEL	AL ALLOY	TI ALLOY
-2	.313	.188	.781	.040	.014	.023
-3	.313	.250	.844	.056	.020	.032
-4	.375	.250	.922	.062	.022	.035
-5	.500	.313	.984	.086	.031	.049
-6	.500	.313	1.063	.104	.037	.060
-8	.625	.438	1.313	.191	.064	.110
-10	.750	.438	1.469	.258	.087	.148
-12	.875	.500	1.625	.402	.135	.231
-16	1.063	.625	1.844	.535	.200	.308
-20	1.250	.750	2.000	.792	.265	.456
-24	1.438	.875	2.313	1.262	.463	.728
-32	2.000	1.188	2.688	3.062	1.125	1.766

REV. B	NOTES: - MATERIAL: SEE PROCUREMENT SPECIFICATION. ALLOY STEEL ALUMINUM ALLOY CORROSION RESISTANT STEEL TITANIUM ALLOY - FINISH: SEE PROCUREMENT SPECIFICATION - BREAK EDGES .003 TO .015 UNLESS OTHERWISE SPECIFIED. - DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ± 0.016, ANGLES $\pm 0^{\circ}30'$. - 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 (2014): 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: MS21904-4 ELBOW, .250 TUBING, 4130 ALLOY STEEL IS CANCELLED AND REPLACED, SEE 7 /A/ MS21904V4P ELBOW, .250 TUBING, CORROSION RESISTANT STEEL (15-5PH), CADMIUM PLATED MS21904V4 ELBOW, .250 TUBING, CORROSION RESISTANT STEEL (15-5PH), NOT CADMIUM PLATED MS21904D4 ELBOW, .250 TUBING, ALUMINUM ALLOY (2014) IS CANCELLED AND REPLACED, SEE 7 /C/ MS21904W4 ELBOW, .250 TUBING, ALUMINUM ALLOY (7075) MS21904J4 ELBOW, .250 TUBING, CORROSION RESISTANT STEEL (TYPE 304) MS21904K4 ELBOW, .250 TUBING, CORROSION RESISTANT STEEL (TYPE 316) MS21904-R4 ELBOW, .250 TUBING, CORROSION RESISTANT STEEL (TYPE 321) MS21904-S4 ELBOW, .250 TUBING, CORROSION RESISTANT STEEL (TYPE 347) IS CANCELLED, SEE 7 /D/ MS21904-T4 ELBOW, .250 TUBING, TITANIUM ALLOY (6AL-4V)
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