

AS5241

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user." SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

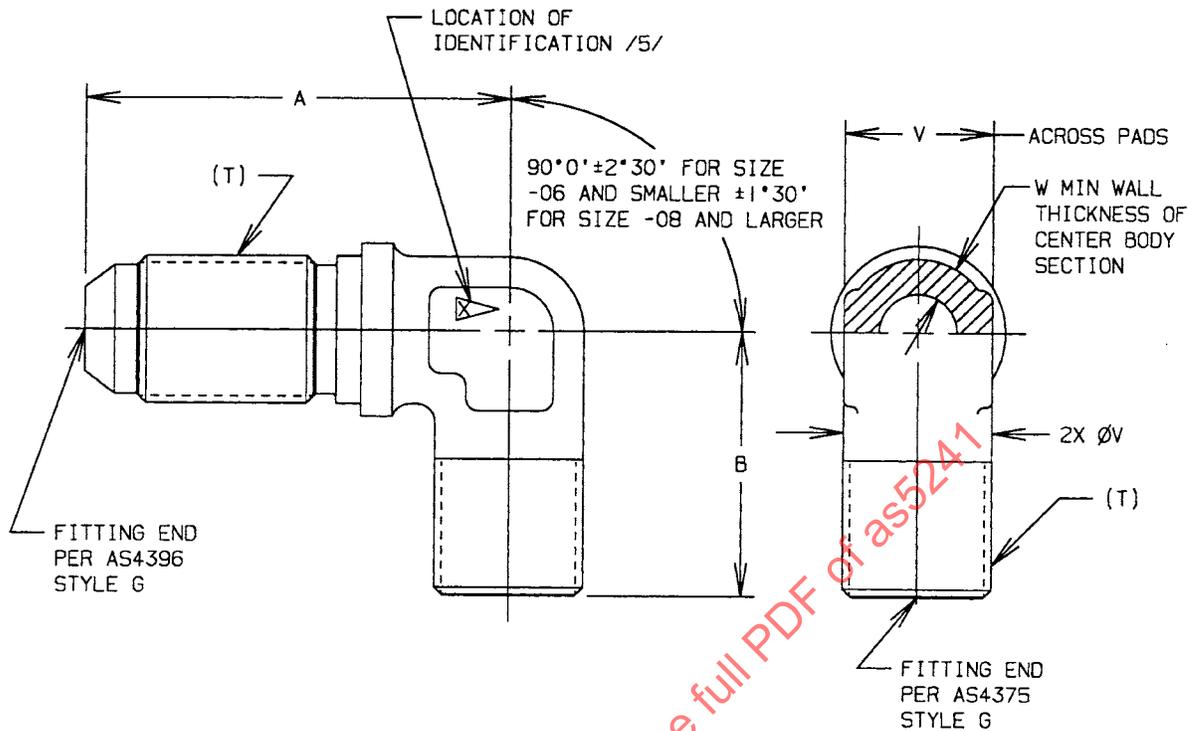
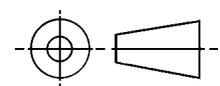


FIGURE 1 - FITTING, ELBOW, 90°

TABLE 1A - DIMENSIONS

BASIC NO. AS5241 /13/ SIZE CODE	(NOMINAL TUBE SIZE)	T THREAD PER MIL-S-8879 CLASS 3A	A ±.023	B ±.023	V
03	.188	.3750-24 UNJF	1.461	.929	.360- .377
04	.250	.4375-20 UNJF	1.601	.961	.423- .440
05	.312	.5000-20 UNJF	1.632	1.054	.485- .502
06	.375	.5625-18 UNJF	1.820	1.086	.547- .565
08	.500	.7500-16 UNJF	2.117	1.336	.735- .753
10	.625	.8750-14 UNJF	2.398	1.523	.860- .878
12	.750	1.0625-12 UNJ	2.679	1.648	1.047-1.065
16	1.000	1.3125-12 UNJ	2.804	1.742	1.292-1.317
20	1.250	1.6250-12 UNJ	3.132	2.023	1.605-1.630
24	1.500	1.8750-12 UNJ	3.226	2.211	1.855-1.880
32	2.000	2.5000-12 UNJ	4.117	2.398	2.542-2.572

THIRD ANGLE PROJECTION



CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS4444

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

FITTING, ELBOW, 90°, BULKHEAD,
FLARED TO FLARELESS

AS5241
SHEET 1 OF 3

AS5241

TABLE 1B - DIMENSIONS AND WEIGHTS

BASIC NO. AS5241 /13/ SIZE CODE	W	LB/EA MAX AL	LB/EA MAX STEEL	LB/EA MAX TI
03	.100	.0245	.0703	.0388
04	.110	.0334	.0959	.0529
05	.120	.0432	.124	.0684
06	.120	.0545	.156	.0863
08	.150	.116	.332	.183
10	.170	.173	.497	.274
12	.185	.267	.768	.424
16	.205	.386	1.11	.612
20	.240	.661	1.90	1.05
24	.250	.852	2.45	1.35
32	.350	1.91	5.49	3.03

NOTES:

/1/ MATERIAL:

- a. DASH AS CODE LETTER - TYPE 4130 STEEL FORGING OR BAR PER AMS 6370 OR MIL-S-6758. /2/
- b. CODE LETTER D - TYPE 2014-T6 ALUMINUM ALLOY FORGING PER AMS 4134 OR QQ-A-367; OR TYPE 2024-T6 ALUMINUM ALLOY BAR PER AMS 4112 OR QQ-A-225/6; OR TYPE 2024-T851 ALUMINUM ALLOY BAR PER QQ-A-225/6. /2/
- c. CODE LETTER J - TYPE 304 CORROSION RESISTANT STEEL PER AMS 5639 OR QQ-S-763.
- d. CODE LETTER K - TYPE 316 CORROSION RESISTANT STEEL PER AMS 5648 OR QQ-S-763.
- e. CODE LETTER R - TYPE 321 CORROSION RESISTANT STEEL PER AMS 5645 OR QQ-S-763.
- f. CODE LETTER T - TYPE 6AL-4V TITANIUM ALLOY PER AMS 4928.
- g. CODE LETTER W - TYPE 7075-T73 ALUMINUM ALLOY FORGING PER AMS 4141 OR QQ-A-367; OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS 4124; OR TYPE 7075-T73 ALUMINUM ALLOY BAR PER QQ-A-225/9. /2/

/2/ HEAT TREATMENT:

- a. DASH AS CODE LETTER - SEE HARDNESS REQUIREMENT PER PROCUREMENT SPECIFICATION.
- b. CODE LETTERS D AND W - SEE ELECTRICAL CONDUCTIVITY AND HARDNESS REQUIREMENT PER PROCUREMENT SPECIFICATION.
- c. OTHER CODE LETTERS - NONE.

3. FINISH:

- a. DASH AS CODE LETTER - CADMIUM PLATE PER QQ-P-416, TYPE II, CLASS 2 AND COAT WITH A LIGHT FILM OF OIL PER PROCUREMENT SPECIFICATION.
- b. CODE LETTER D - ANODIZE PER MIL-A-8625, TYPE II, CLASS 2, DYE GREEN, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.
- c. CODE LETTER J, K AND R - PASSIVATE PER QQ-P-35, TYPE VI OR VII.
- d. CODE LETTER T - ANODIZE PER AMS 2488 OR FLUORIDE PHOSPHATE CONVERSION COAT PER AMS 2486 WITH COLOR PER PROCUREMENT SPECIFICATION.
- e. CODE LETTER W - ANODIZE PER MIL-A-8625, TYPE II, CLASS 2, DYE BROWN, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.