

AS5182

FEDERAL SUPPLY CLASS
4730

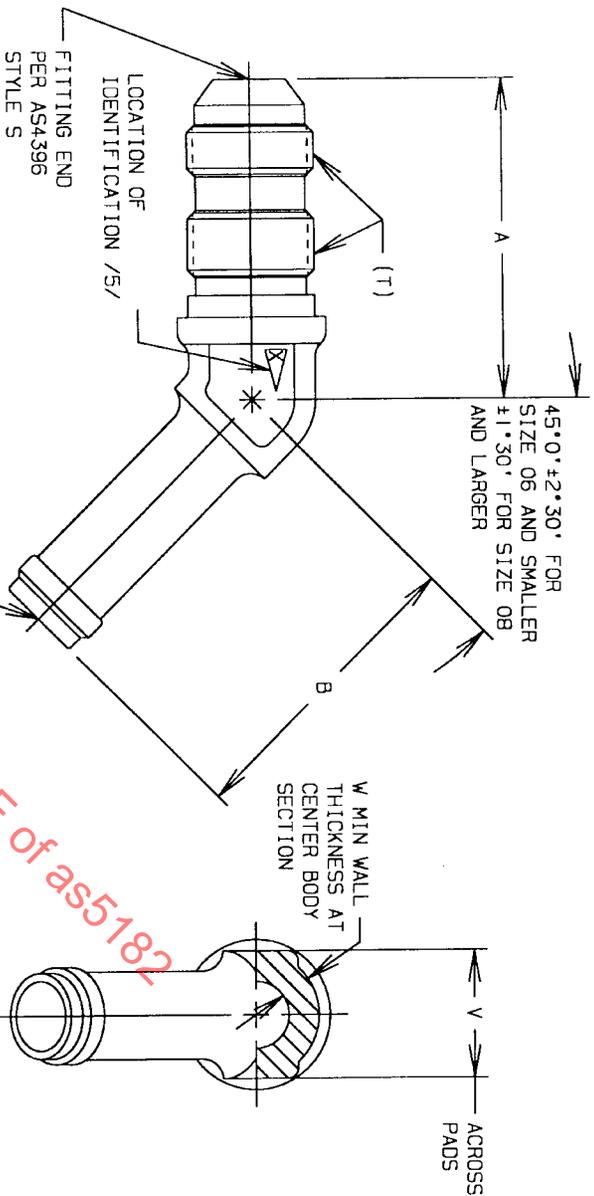
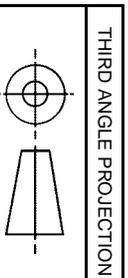


FIGURE 1 - FITTING, ELBOW, 45°

TABLE 1 - DIMENSIONS AND WEIGHTS

BASIC NO. AS5182 /13/ SIZE CODE	(NOMINAL TUBE SIZE)	T THREAD PER AS8879 CLASS 3A	A	B	V	W	AL	CU	STEEL
04	.250	.4375-20 UNJF	1.445	1.711	.423-.440	.110	.0284	.0865	.0817
06	.375	.5625-18 UNJF	1.586	1.742	.547-.565	.120	.0469	.143	.135
08	.500	.7500-16 UNJF	1.852	1.774	.735-.753	.150	.0991	.301	.285
10	.625	.8750-14 UNJF	2.070	1.820	.860-.878	.170	.144	.439	.414
12	.750	1.0625-12 UNJ	2.305	1.852	1.047-1.065	.185	.235	.714	.675
16	1.000	1.3125-12 UNJ	2.414	1.914	1.292-1.317	.205	.354	1.08	1.02
20	1.250	1.6250-12 UNJ	2.570	1.992	1.605-1.630	.240	.601	1.83	1.72
24	1.500	1.8750-12 UNJ	2.695	2.058	1.855-1.880	.250	.799	2.43	2.29



ISSUED 2000-01

CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS4843/1

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Automotive Engineers
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Related Occupations
INTERNATIONAL
400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD
FITTING, ELBOW, 45°, BULKHEAD,
FLARED TO HOSE

AS5182
SHEET 1 OF 3

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NOTES:

/1/ MATERIAL:

- a. DASH AS CODE LETTER - CARBON STEEL FORGING OR BAR, TYPE 4130 PER AMS-S-6758 OR AMS 6370, OR TYPE 4140 PER AMS 6382. /2/
- b. CODE LETTER B - TYPE 377 COPPER ALLOY FORGING PER ASTM B 124 OR AMS 4614 OR HALF HARD FORGING OR BAR PER ASTM B 138.
- c. CODE LETTER D - TYPE 2014-T6 ALUMINUM ALLOY FORGING PER AMS 4134, OR TYPE 2024-T6 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6, OR TYPE 2024-T851 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6 OR AMS 4339. /2/
- d. CODE LETTER J - TYPE 304 CORROSION RESISTANT STEEL FORGING OR BAR PER QQ-S-763 OR AMS 5639.
- e. CODE LETTER K - TYPE 316 CORROSION RESISTANT STEEL FORGING OR BAR PER QQ-S-763 OR AMS 5648.
- f. CODE LETTER R - TYPE 321 CORROSION RESISTANT STEEL FORGING OR BAR PER QQ-S-763 OR AMS 5645.
- g. CODE LETTER W - TYPE 7075-T73 ALUMINUM ALLOY FORGING PER AMS 4141, OR TYPE 7075-T73 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/9, OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS 4124. /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, DYE BLACK AND COAT WITH A LIGHT FILM OF OIL PER PROCUREMENT SPECIFICATION.
- b. CODE LETTER B - CADMIUM PLATE PER QQ-P-416, TYPE II, CLASS 3 OR NONE.
- c. CODE LETTER D - ANODIZE PER MIL-A-8625, TYPE II, CLASS 2, DYE BLUE, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.
- d. CODE LETTERS J, K AND R - PASSIVATE PER AMS-QQ-P-35, TYPE VI OR VII.
- e. CODE LETTER W - ANODIZE PER MIL-A-8625, TYPE II, CLASS 2, DYE BROWN, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.

/4/ PROCUREMENT SPECIFICATION: AS4843/1 EXCEPT AS SPECIFIED ON THIS STANDARD. THIS PART SHALL BE QUALIFIED TO THE PROCUREMENT SPECIFICATION IN A COMPLETE ASSEMBLY AS APPLICABLE. USERS OF THIS STANDARD ARE ADVISED TO CONTROL SOURCE APPROVAL(S) BY STANDARD PAGE SUPPLEMENT SHEET OR SIMILAR MEANS.

/5/ IDENTIFICATION AT LOCATION SHOWN: MARK PER AS478 CLASS C OR D OR METHOD 7A3, 15A3, OR 15B.

- a. FOR SIZE 06 AND SMALLER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, LETTER "AS" AND MATERIAL CODE LETTER.
- b. FOR SIZE 08 AND LARGER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, BASIC PART NUMBER AND MATERIAL CODE LETTER.

6. INTENDED USE: THIS PART IS DESIGNED FOR USE IN SYSTEMS WITH A MAXIMUM OPERATING PRESSURE OF 600 psi. THIS STANDARD IS THE FUNCTIONAL EQUIVALENT OF AN839 AND IS INTENDED TO BE SUITABLE AS A REPLACEMENT STANDARD.

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

8. INTERPRETATION OF DRAWING PER ARP4296.

9. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M; REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 μ m Ra. FORGED SURFACES MAY BE 250 μ m Ra.

10. BREAK EDGES .003 TO .015 UNLESS OTHERWISE SPECIFIED.

11. DIMENSIONING AND TOLERANCING: ASME Y14.5M-1994.

12. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS \pm .023, ANGULAR DIMENSIONS \pm 0°30'.