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REV. A
AS5186™

FEDERAL SUPPLY CLASS
4730

RATIONALE

REVISE EXISTING NOTE, CENTER BODY DIMENSION TO REFER TO AS1376 TABLE 9 IN LIEU OF TABLE 1. REVISION INDICATOR AND DISPOSITION OF EXISTING INVENTORY NOTE ADDED. OPTIONAL MATERIAL ADDED TO ALUMINUM FINISH. GENERAL UPDATE INCORPORATED.

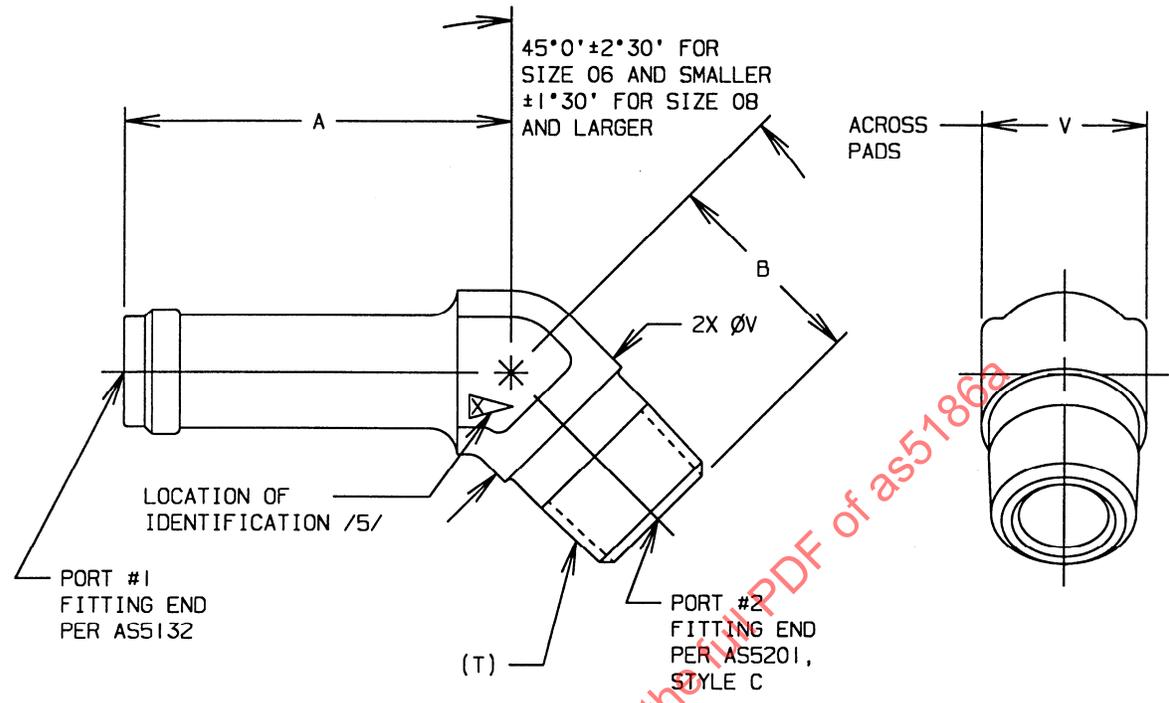
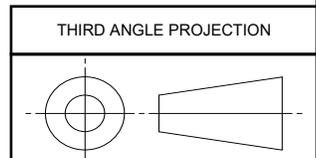


FIGURE 1 - FITTING, ELBOW, 45°

TABLE 1 - DIMENSIONS AND WEIGHTS

BASIC NO. AS5186 /13/ SIZE CODE	(NOMINAL HOSE SIZE) PORT #1	(NOMINAL PIPE SIZE) PORT #2	T-THREAD PER AS71051 ANPT	DIMENSIONS			LB/EA APPROX, REF AL	LB/EA APPROX, REF CU	LB/EA APPROX, REF STEEL
				A	B	V			
0402	.250	.188	1/8-27	1.648	.648	.423-.440	.0197	.0598	.0565
0604	.375	.250	1/4-18	1.711	.898	.610-.628	.0480	.146	.138
0806	.500	.375	3/8-18	1.742	.945	.735-.753	.0734	.223	.211
1008	.625	.500	1/2-14	1.805	1.180	.923-.941	.122	.370	.349
1212	.750	.750	3/4-14	1.836	1.227	1.110-1.128	.128	.389	.367
1612	1.000	.750	3/4-14	1.836	1.227	1.110-1.128	.124	.377	.357
1616	1.000	1.000	1-11 1/2	1.898	1.508	1.355-1.380	.213	.647	.611
2016	1.250	1.000	1-11 1/2	1.898	1.508	1.355-1.380	.200	.608	.575
2020	1.250	1.250	1 1/4-11 1/2	1.961	1.523	1.730-1.755	.345	1.05	.987
2420	1.500	1.250	1 1/4-11 1/2	2.023	1.461	1.730-1.755	.321	.972	.922
2424	1.500	1.500	1 1/2-11 1/2	2.023	1.586	1.980-2.005	.429	1.31	1.23

For more information on this standard, visit
<https://www.sae.org/standards/content/AS5186A>



CUSTODIAN: G-3G-3B PROCUREMENT SPECIFICATION: AS4843/2 /4/

	AEROSPACE STANDARD		AS5186™ SHEET 1 OF 3	REV. A
	FITTING, ELBOW, 45°, PIPE TO HOSE			

ISSUED 2000-01 REAFFIRMED 2015-04 REVISED 2021-09

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:

- a. DASH AS CODE LETTER: CARBON STEEL FORGING OR BAR, TYPE 4130 PER AMS-S-6758 OR AMS6370, OR TYPE 4140 PER AMS6382. /2/
- b. CODE LETTER B: TYPE 377 COPPER ALLOY FORGING PER ASTM B124 OR AMS4614 OR HALF HARD FORGING OR BAR PER ASTM B138.
- c. CODE LETTER D: TYPE 2014-T6 ALUMINUM ALLOY FORGING PER AMS4134, OR TYPE 2024-T6 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6, OR TYPE 2024-T851 ALUMINUM ALLOY BAR PER AMS-QQ-S-225/6 OR AMS4339. /2/
- d. CODE LETTER J: TYPE 304 CORROSION RESISTANT STEEL FORGING OR BAR PER QQ-S-763 OR AMS5639.
- e. CODE LETTER K: TYPE 316 CORROSION RESISTANT STEEL FORGING OR BAR PER QQ-S-763 OR AMS5648.
- f. CODE LETTER R: TYPE 321 CORROSION RESISTANT STEEL FORGING OR BAR PER QQ-S-763 OR AMS5645.
- g. CODE LETTER W: TYPE 7075-T73 ALUMINUM ALLOY FORGING PER AMS4141, OR TYPE 7075-T73 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/9, OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS4124. /2/

/2/ HEAT TREATMENT:

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

3. FINISH:

- a. DASH AS MATERIAL CODE LETTER: CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2, DYE BLACK AND COAT WITH A LIGHT FILM OF OIL PER PROCUREMENT SPECIFICATION.
- b. MATERIAL CODE LETTER B: CADMIUM PLATED PER AMS-QQ-P-416, TYPE II, CLASS 3 OR NONE.
- c. MATERIAL CODE LETTER D: ANODIZE PER AMS2472 OR MIL-A-8625, TYPE II, CLASS 2, DYE BLUE, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.
- d. MATERIAL CODE LETTERS J, K, AND R: PASSIVATE PER AMS2700 TYPE 6 OR 7.
- e. MATERIAL CODE LETTER W: ANODIZE PER AMS2472 OR MIL-A-8625, TYPE II, CLASS 2, DYE BROWN, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.

/4/ PROCUREMENT SPECIFICATION: AS4843/2 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 AN844 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 9.
8. INTERPRETATION OF DRAWING PER AS4296.

	AEROSPACE STANDARD	AS5186™ SHEET 2 OF 3	REV. A
	FITTING, ELBOW, 45°, PIPE TO HOSE		