

REV. A

AS5191™

FEDERAL SUPPLY CLASS  
4730

RATIONALE

CADMIUM WARNING NOTICE ADDED. OPTIONAL MATERIALS ADDED TO NOTE 1. HEAT TREATMENT NOTE 2, REVISED. QML STATEMENT REVISED TO CURRENT WORDING. INTENDED USE NOTE REVISED.

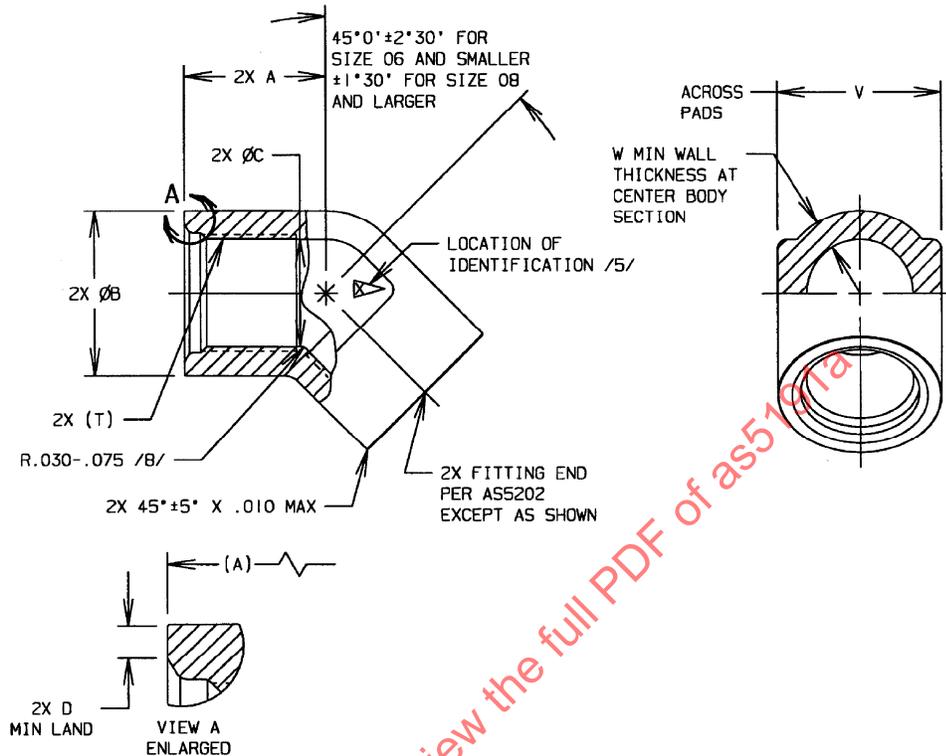
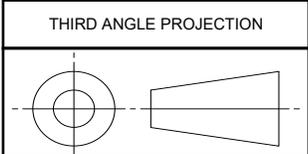


FIGURE 1 - FITTING, ELBOW, 45°

TABLE 1 - DIMENSIONS A-W AND WEIGHTS

BASIC NO. AS5191 /15/ SIZE CODE	(NOMINAL TUBE SIZE)	T THREAD PER AS8879 CLASS 3B	A	B ±.016	C -.015/+0.00	D	V	W	LB/EA	LB/EA	LB/EA
									APPROX REF AL	APPROX REF STEEL	APPROX REF TI
04	.250	.4375-20 UNJF	.711	.688	.397	.040	.735-.753	.050	.0479	.137	.0758
05	.312	.5000-20 UNJF	.719	.750	.459	.040	.735-.753	.050	.0486	.139	.0769
06	.375	.5625-18 UNJF	.734	.813	.516	.040	.797-.815	.050	.0491	.141	.0778
08	.500	.7500-16 UNJF	.906	1.063	.697	.071	1.047-1.065	.050	.117	.337	.186
10	.625	.8750-14 UNJF	1.086	1.188	.815	.071	1.173-1.191	.070	.156	.449	.248
12	.750	1.0625-12 UNJ	1.242	1.438	.991	.077	1.418-1.443	.080	.256	.736	.406
16	1.000	1.3125-12 UNJ	1.367	1.688	1.241	.077	1.668-1.693	.090	.337	.969	.534
20	1.250	1.6250-12 UNJ	1.477	2.000	1.553	.077	1.980-2.005	.110	.452	1.30	.716

For more information on this standard, visit  
<https://www.sae.org/standards/content/AS5191A/>



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS4875 /4/



AEROSPACE STANDARD

FITTING, ELBOW, 45°, INTERNAL  
STRAIGHT THREAD PORT

AS5191™  
SHEET 1 OF 3

REV. A

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ISSUED 2000-07 REAFFIRMED 2015-04 REVISED 2021-02

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: TYPE 4130 CARBON STEEL FORGING OR BAR PER AMS-S-6758 OR AMS6370, OR TYPE 4140 STEEL BAR PER AMS6349 OR AMS6382. /2/
- b. CODE LETTER J: TYPE 304 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5639.
- c. CODE LETTER K: TYPE 316 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5648.
- d. CODE LETTER R: TYPE 321 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5645.
- e. CODE LETTER T: TYPE 6AL-4V TITANIUM ALLOY FORGING OR BAR PER AMS4928.
- f. CODE LETTER W: TYPE 7075-T73 ALUMINUM ALLOY FORGING PER AMS-QQ-A-367 OR 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: REFER TO HARDNESS REQUIREMENT PER PROCUREMENT SPECIFICATION.
- b. MATERIAL CODE LETTER W: REFER TO 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 LETTERS J, K, AND R: PASSIVATE PER AMS2700 TYPE 6 OR TYPE 7.
- c. MATERIAL CODE LETTER T: ANODIZE PER AMS2488, TYPE 2 OR FLUORIDE PHOSPHATE CONVERSION COAT PER AMS2486 WITH COLOR PER PROCUREMENT SPECIFICATION.
- d. 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: AS4875 EXCEPT AS SPECIFIED ON THIS STANDARD. PRODUCT MANUFACTURED TO THIS STANDARD SHALL MEET THE REQUIREMENTS SPECIFIED HEREIN AND THE PROCUREMENT SPECIFICATION. ORIGINAL COMPONENT MANUFACTURERS (OCM) AND VALUE ADDED DISTRIBUTORS (VAD) SHALL BE LISTED IN THE NADCAP QUALIFIED MANUFACTURER LIST (QML) FOR THIS PRODUCT TYPE. THE QML IS AVAILABLE AT [www.eAuditNet.com](http://www.eAuditNet.com).

/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, LETTERS "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.

	<b>AEROSPACE STANDARD</b>	<b>AS5191™</b> SHEET 2 OF 3	<b>REV.</b> <b>A</b>
	FITTING, ELBOW, 45°, INTERNAL STRAIGHT THREAD PORT		