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REV.
B

AS5190™

RATIONALE

FEDERAL SUPPLY CLASS
4730

"INACTIVE IN PART" STATUS REPLACED BY "NOT RECOMMENDED IN PART." OPTIONAL MATERIALS ADDED TO NOTE 1. HEAT TREATMENT NOTE 2, REVISED. FINISH FOR MATERIAL CODE LETTER D AND S ADDED TO NOTE 3. QML STATEMENT REVISED. INTENDED USE NOTE REVISED, TABLE 2 REMOVED. NOTE 10 REVISED TO REFLECT CURRENT SPECIFICATION CALLOUT. USE OF TITANIUM AND CADMIUM IN OXYGEN OR POTABLE WATER SYSTEM WARNING NOTE REMOVED. CHANGE BAR NOTE REVISED.

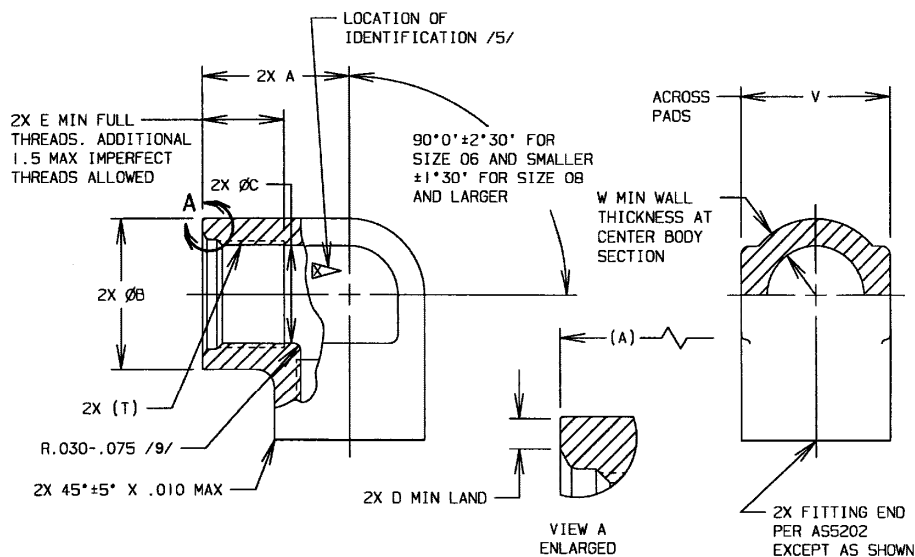
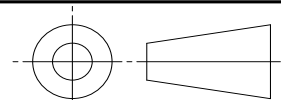


FIGURE 1 - FITTING, ELBOW, 90°

NOT RECOMMENDED IN PART /18/

For more information on this standard, visit
<https://www.sae.org/standards/content/AS5190B/>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS4875 /4/



AEROSPACE STANDARD

FITTING, ELBOW, 90°, INTERNAL
STRAIGHT THREAD PORT

AS5190™
SHEET 1 OF 4

REV.
B

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TABLE 1 - DIMENSIONS A-W AND WEIGHTS

BASIC NO. AS5190 /15/ SIZE CODE	(NOMINAL TUBE SIZE)	T THREAD PER AS8879 CLASS 3B	A	B ±.016	C -.015/+ .000	D	E	V	W	LB/EA APPROX REF AL	LB/EA APPROX REF STEEL	LB/EA APPROX REF TI
04	.250	.4375-20 UNJF	.787	.688	.397	.040	.483	.735-.753	.050	.0459	.135	.0743
05	.312	.5000-20 UNJF	.849	.750	.459	.040	.452	.735-.753	.050	.0486	.140	.0772
06	.375	.5625-18 UNJF	.849	.813	.516	.040	.475	.797-.815	.050	.0461	.132	.0732
08	.500	.7500-16 UNJF	1.037	1.063	.697	.071	.569	1.047-1.065	.050	.110	.312	.175
10	.625	.8750-14 UNJF	1.193	1.188	.815	.071	.638	1.173-1.191	.070	.122	.427	.235
12	.750	1.0625-12 UNJ	1.396	1.438	.991	.077	.730	1.418-1.443	.080	.250	.718	.396
16	1.000	1.3125-12 UNJ	1.568	1.688	1.241	.077	.777	1.668-1.693	.090	.341	.981	.540
20	1.250	1.6250-12 UNJ	1.771	2.000	1.553	.077	.824	1.980-2.005	.110	.471	1.350	.745

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 D: TYPE 2014-T6 ALUMINUM ALLOY FORGING PER AMS-QQ-A-367 OR AMS4133 OR TYPE 2024-T6 ALUMINUM ALLOY BAR PER AMS-QQ-225/6, OR TYPE 2024-T851 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6 OR AMS4339. /18/
- c. CODE LETTER J: TYPE 304 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5639.
- d. CODE LETTER K: TYPE 316 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5648.
- e. CODE LETTER R: TYPE 321 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5645.
- f. CODE LETTER T: TYPE 6AL-4V TITANIUM ALLOY FORGING OR BAR PER AMS4928.
- g. CODE LETTER S: TYPE 347 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5646. /18/
- h. 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-QQA-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 LETTERS D AND W: REFER TO ELECTRICAL CONDUCTIVITY AND HARDNESS REQUIREMENT PER PROCUREMENT SPECIFICATION.
- c. OTHER MATERIAL CODE LETTERS: NONE.

	AEROSPACE STANDARD		AS5190™ SHEET 2 OF 4	REV. B
	FITTING, ELBOW, 90°, INTERNAL STRAIGHT THREAD PORT			



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