

RATIONALE

"INACTIVE" STATUS REPLACED BY "NOT RECOMMENDED." CADMIUM WARNING NOTE ADDED. ALTERNATE MATERIALS ADDED TO NOTE 1. HIGH PURITY ALUMINUM OPTION ADDED TO NOTE 3.e. SPECIFICATION CALLOUTS UPDATED TO CURRENT ISSUE. QML STATEMENT REVISED. "INTENDED USE" NOTE REVISED. NEW NOTE 18 ADDED.

REV.  
C

AS5197™

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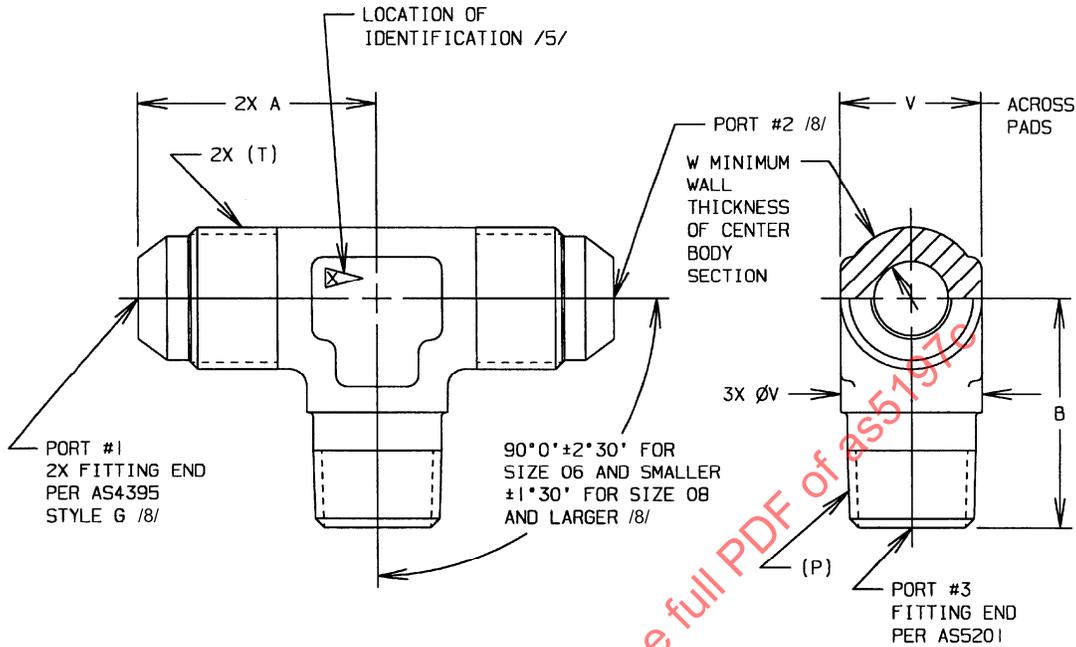
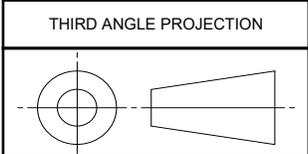


FIGURE 1 - FITTING

NOT RECOMMENDED IN PART - SEE NOTE /18/

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CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS4842/1 /4/



**AEROSPACE STANDARD**

(R) FITTING, TEE, FLARED  
TO PIPE ON SIDE

AS5197™  
SHEET 1 OF 4

REV.  
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**TABLE 1 - DIMENSIONS A-B**

BASIC NO. AS5197 /17/ SIZE CODE	(NOMINAL TUBE SIZE) PORT #1 & #2	(NOMINAL PIPE SIZE) PORT #3	P THREAD PER AS71051 ANPT	T THREAD PER AS8879 CLASS 3A	PORT #3 STYLE	A	B
020202	.125	.125	1/8-27	.3125-24 UNJF	B	.758	.712
030302	.188	.125	1/8-27	.3750-24 UNJF	B	.821	.712
040402	.250	.125	1/8-27	.4375-20 UNJF	C	.883	.774
050502	.312	.125	1/8-27	.5000-20 UNJF	C	.946	.774
060604	.375	.250	1/4-18	.5625-18 UNJF	A	1.055	1.086
080806	.500	.375	3/8-18	.7500-16 UNJF	C	1.243	1.212
101008	.625	.500	1/2-14	.8750-14 UNJF	C	1.446	1.462
121212	.750	.750	3/4-14	1.0625-12 UNJ	A	1.646	1.586
161612	1.000	.750	3/4-14	1.3125-12 UNJ	C	1.805	1.712
161616	1.000	1.000	1-11 1/2	1.3125-12 UNJ	A	1.805	1.962
202016	1.250	1.000	1-11 1/2	1.6250-12 UNJ	C	2.055	2.212
202020	1.250	1.250	1 1/4-11 1/2	1.6250-12 UNJ	B	2.055	2.368
242420	1.500	1.250	1 1/4-11 1/2	1.8750-12 UNJ	C	2.321	2.493
282824	1.750	1.500	1 1/2-11 1/2	2.2500-12 UNJ	C	2.805	2.774
323232	2.000	2.000	2-11 1/2	2.5000-12 UNJ	C	3.055	2.993

**TABLE 1A - DIMENSIONS AND WEIGHTS V-W**

BASIC NO. AS5197 /17/ SIZE CODE	V	W	LB/EA APPROX REF AL	LB/EA APPROX REF COPPER	LB/EA APPROX REF STEEL
020202	.297- .314	.090	.0119	.0360	.0340
030302	.360- .377	.100	.0165	.0501	.0473
040402	.423- .440	.110	.0223	.0677	.0640
050502	.485- .502	.120	.0287	.0871	.0824
060604	.547- .565	.120	.0410	.125	.118
080806	.735- .753	.150	.0815	.248	.234
101008	.860- .878	.170	.124	.376	.356
121212	1.047-1.065	.185	.193	.585	.553
161612	1.292-1.317	.205	.297	.900	.852
161616	1.292-1.317	.205	.294	.895	.845
202016	1.605-1.630	.240	.539	1.64	1.55
202020	1.605-1.630	.240	.478	1.45	1.37
242420	1.855-1.880	.250	.707	2.15	2.03
282824	2.230-2.260	.350	1.20	3.64	3.44
323232	2.542-2.572	.350	1.79	5.44	5.13

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 - LOW ALLOY STEEL FORGING OR BAR, TYPE 4130 PER AMS-S-6758 OR AMS6370, OR TYPE 4140 PER AMS6349 OR AMS6382.
- b. CODE LETTER B - TYPE 377 COPPER ALLOY FORGING PER ASTM B124/B-124M OR AMS4614, OR BAR PER ASTM B138/B-138M.

	<b>AEROSPACE STANDARD</b>	<b>AS5197™</b> SHEET 2 OF 4	<b>REV.</b> <b>C</b>
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- c. 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-A-225/6, OR TYPE 2024-T851 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6 OR AMS4339. /17/
  - d. CODE LETTER J – TYPE 304 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5639.
  - e. CODE LETTER K – TYPE 316 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5648.
  - f. CODE LETTER R – TYPE 321 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5645.
  - g. 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. HEAT TREATMENT:
- a. DASH AS 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 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. MATERIAL CODE LETTER B - CADMIUM PLATE PER QQ-P-416, TYPE II, CLASS 3 OR NONE.
  - c. MATERIAL CODE LETTER D - ANODIZE PER 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:
    - 1. ANODIZE PER AMS2472 OR MIL-A-8625, TYPE II, CLASS 2, DYE BROWN, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.
    - 2. MATERIAL CODE W PARTS TO BE COATED WITH HIGH PURITY ALUMINUM ONLY WILL HAVE THE FINISH CODE LETTER "V" PLACED AFTER THE SIZE CODE IN THE PART NUMBER. HIGH PURITY ALUMINUM COAT PER PROCUREMENT SPECIFICATION. /17/
- /4/ PROCUREMENT SPECIFICATION: AS4842/1 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.
6. INVENTORIED PARTS CONFORMING TO THE PREVIOUS "LETTER CHANGE" MAY BE USED TO DEPLETION.
7. INTENDED USE: THIS PART IS DESIGNED FOR USE IN SYSTEMS WITH MAXIMUM OPERATING PRESSURES AS SPECIFIED IN THE PROCUREMENT SPECIFICATION.
- /8/ AT THE OPTION OF THE MANUFACTURER, THE SMALLEST ID OF EITHER THE AS4395 OR AS5201 FITTING ENDS FOR A GIVEN PART NUMBER MAY BE MACHINED INTO THE OTHER FITTING ENDS FOR THAT PART NUMBER.
9. THIS STANDARD IS THE FUNCTIONAL EQUIVALENT OF MS20825 AND IS INTENDED TO BE SUITABLE AS A REPLACEMENT STANDARD.
10. WHEN MACHINED FROM BAR OR OVERSIZED FORGING, THE CENTER BODY DIMENSIONS SHALL CONFORM TO AS1376, TABLE 1.

	<b>AEROSPACE STANDARD</b>	<b>AS5197™</b> SHEET 3 OF 4	<b>REV.</b> <b>C</b>
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