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REV. A
AS5192

FEDERAL SUPPLY CLASS
4730

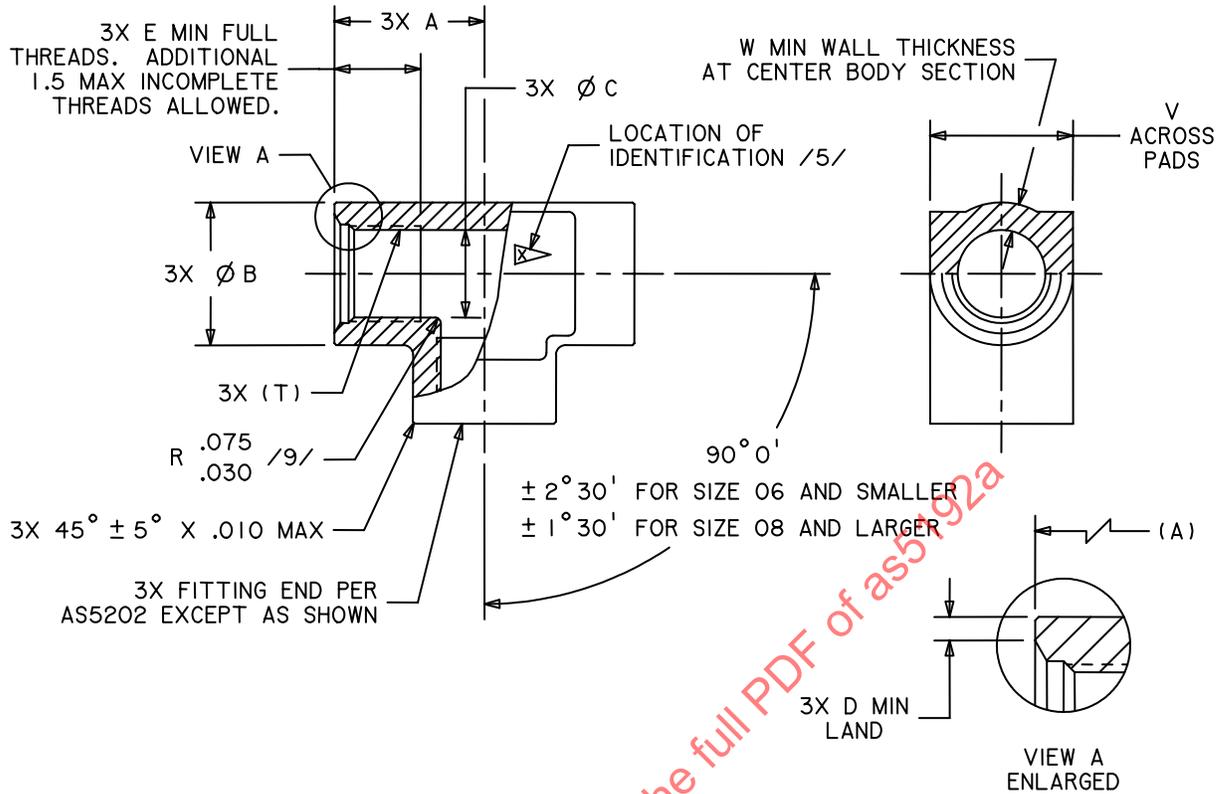
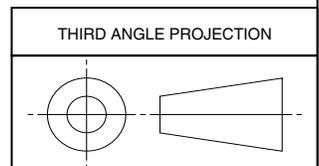


FIGURE 1 - FITTING, TEE

TABLE 1A - DIMENSIONS

BASIC NO. AS5192 /17/ SIZE CODE	(NOMINAL TUBE SIZE)	T THREAD PER AS8879 CLASS 3B	A	B ±.016	C +.000 -.015	D	E	V	W
04	.250	.4375-20 UNJF	.787	.688	.397	.040	.483	.735-.753	.050
05	.312	.5000-20 UNJF	.787	.750	.459	.040	.452	.735-.753	.050
06	.375	.5625-18 UNJF	.849	.813	.516	.040	.475	.797-.815	.050
08	.500	.7500-16 UNJF	1.037	1.063	.697	.071	.569	1.047-1.065	.050
10	.625	.8750-14 UNJF	1.193	1.188	.815	.071	.638	1.173-1.191	.070
12	.750	1.0625-12 UNJ	1.396	1.438	.991	.077	.730	1.418-1.443	.080
16	1.000	1.3125-12 UNJ	1.568	1.688	1.241	.077	.777	1.668-1.693	.090
20	1.250	1.6250-12 UNJ	1.771	2.000	1.553	.077	.824	1.980-2.005	.110



CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS4875



AEROSPACE STANDARD

FITTING, TEE, INTERNAL
STRAIGHT THREAD PORT

AS5192
SHEET 1 OF 4

REV. A

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TABLE 1B – WEIGHTS

BASIC NO. AS5192 /17/ SIZE CODE	LB/EA APPROX REF AL	LB/EA APPROX REF STEEL	LB/EA APPROX REF TI
04	.0599	.172	.0949
05	.0593	.170	.0939
06	.0592	.170	.0938
08	.140	.402	.222
10	.189	.542	.299
12	.315	.904	.499
16	.420	1.21	.666
20	.566	1.63	.897

NOTES:

/1/ MATERIAL:

- a. DASH AS CODE LETTER – TYPE 4130 STEEL FORGING OR BAR PER AMS-S-6758 OR AMS 6370, OR TYPE 4140 PER AMS 6382. /2/
- b. CODE LETTER J – TYPE 304 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS 5639.
- c. CODE LETTER K – TYPE 316 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS 5648.
- d. CODE LETTER R – TYPE 321 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS 5645.
- e. CODE LETTER T – TYPE 6AL-4V TITANIUM ALLOY FORGING OR BAR PER AMS 4928.
- f. 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. MATERIAL CODE LETTER W – SEE PROCUREMENT SPECIFICATION.
- c. OTHER MATERIAL CODE LETTERS - NONE.

3. FINISH:

- a. DASH AS 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. /16/
- b. MATERIAL CODE LETTER J – PASSIVATE PER AMS-QQ-P-35, TYPE VI OR VII.
- c. MATERIAL CODE LETTER K – PASSIVATE PER AMS-QQ-P-35, TYPE VI OR VII.
- d. MATERIAL CODE LETTER R – PASSIVATE PER AMS-QQ-P-35, TYPE VI OR VII.
- e. MATERIAL CODE LETTER T – ANODIZE PER AMS 2488 OR FLUORIDE PHOSPHATE CONVERSION COAT PER AMS 2486 WITH COLOR PER PROCUREMENT SPECIFICATION.
- f. MATERIAL CODE LETTER W:
 1. ANODIZE PER AMS 2472 OR MIL-A-8625, TYPE II, CLASS 2, DYE BROWN, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.
 2. W CODE PARTS TO BE COATED WITH HIGH PURITY ALUMINUM ONLY WILL HAVE THE FINISH CODE LETTER "V" AFTER THE SIZE CODE IN THE PART NUMBER. THE FINISH WILL BE: COAT WITH HIGH PURITY ALUMINUM PER MIL-DTL-83488, CLASS 3, TYPE II WITH MAXIMUM COATING THICKNESS OF .0005. GLASS BEAD PEEN PRESSURE SHALL BE 25 psi MAXIMUM.

REV.
A

AS5192

- /4/ PROCUREMENT SPECIFICATION: AS4875 EXCEPT AS SPECIFIED ON THIS STANDARD. USERS OF THIS STANDARD SHALL PROCURE THIS PRODUCT FROM ACCREDITED MANUFACTURER(S), OR ACCREDITED DISTRIBUTOR(S), AS LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED MANUFACTURERS LIST (QML) FOR THIS TYPE OF PRODUCT.
- /5/ IDENTIFICATION AT LOCATION SHOWN: MARK PER AS478 CLASS C OR D, OR METHOD 7A3, 15A3, OR 15B.
- a. FOR SIZES 06 AND SMALLER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, LETTERS "AS" AND MATERIAL CODE LETTER.
 - b. FOR SIZES 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 MAXIMUM OPERATING PRESSURES AS FOLLOWS:
- a. SIZES 04 THROUGH 12 IN ALUMINUM ALLOY AND SIZES 04 THROUGH 16 IN STEEL, CORROSION RESISTANT STEEL, AND TITANIUM AT 3000 psi.
 - b. SIZES 16 THROUGH 20 IN ALUMINUM ALLOY AND SIZE 20 IN STEEL, CORROSION RESISTANT STEEL, AND TITANIUM AT 1500 psi.
7. THIS STANDARD IS A FUNCTIONAL EQUIVALENT OF AN938 AND IS INTENDED TO BE SUITABLE AS A REPLACEMENT STANDARD.
8. WHEN MACHINED FROM BAR OR OVERSIZED FORGING, THE CENTER BODY DIMENSIONS SHALL CONFORM TO AS1376, TABLE 1.
- /9/ RADIUS APPLICABLE FOR TITANIUM ALLOY PARTS ONLY.
10. THE CHANGE BAR (I) LOCATED IN THE LEFT MARGIN IS FOR THE CONVENIENCE OF THE USER IN LOCATING AREAS WHERE TECHNICAL REVISIONS, NOT EDITORIAL CHANGES, HAVE BEEN MADE TO THE PREVIOUS ISSUE OF THIS DOCUMENT. AN (R) SYMBOL TO THE LEFT OF THE DOCUMENT TITLE INDICATES A COMPLETE REVISION OF THE DOCUMENT.
11. INTERPRETATION OF DRAWING PER ARP4296.
12. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M; REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 μ in Ra. FORGED SURFACES MAY BE 250 μ in Ra.
13. BREAK EDGES .003 TO .015 UNLESS OTHERWISE SPECIFIED.
14. DIMENSIONING AND TOLERANCING: ASME Y14.5M-1994.
15. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS \pm .010, ANGULAR DIMENSIONS \pm 0°30'.
- /16/ THIS DOCUMENT INCLUDES CADMIUM AS A PLATING MATERIAL. THE USE OF CADMIUM HAS BEEN RESTRICTED AND/OR BANNED FOR USE IN MANY COUNTRIES DUE TO ENVIRONMENTAL AND HEALTH CONCERNS. THE USER SHOULD CONSULT WITH LOCAL OFFICIALS ON APPLICABLE HEALTH AND ENVIRONMENTAL REGULATIONS REGARDING ITS USE.