

REV.
A

AS100

FEDERAL SUPPLY CLASS
4730

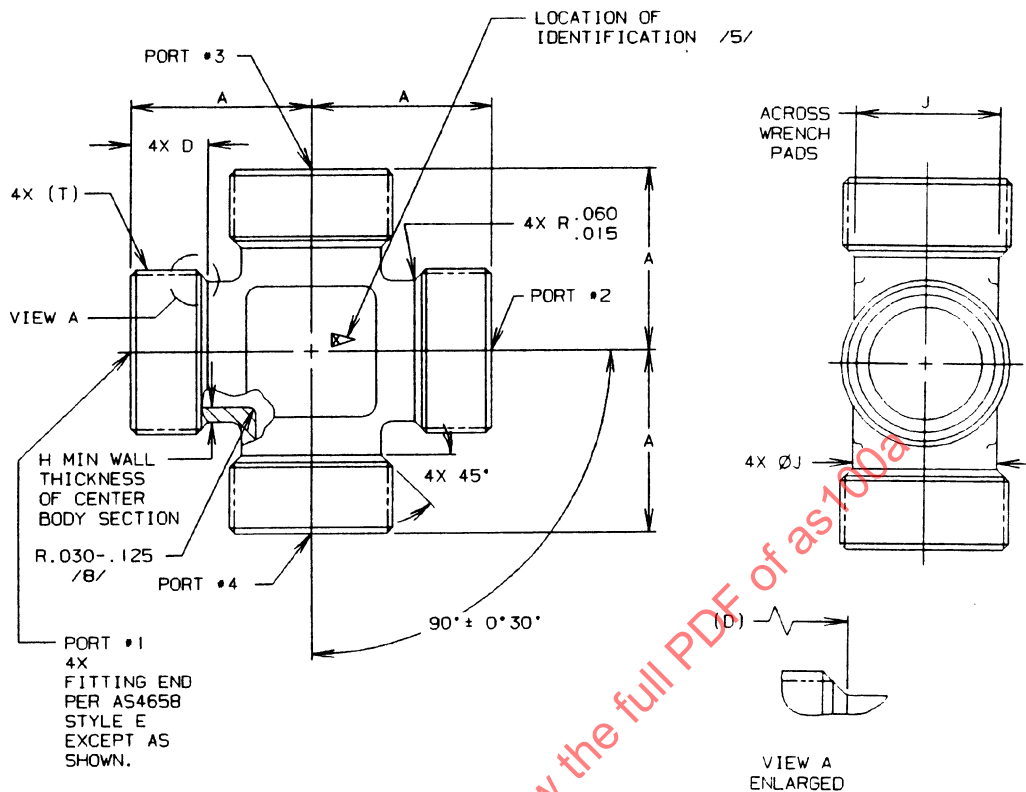
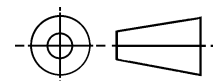


FIGURE 1 - FITTING, CROSS

TABLE 1 - DIMENSIONS AND WEIGHTS

BASIC NO.	AS100	(NOMINAL TUBE SIZE)	T (THREAD PER MIL-S-8879)	A	D	H	J (+.005/- .020)	LB/EA MAX ALUM	LB/EA MAX CRES	LB/EA MAX TI
/9/ /17/	SIZE CODE									
20		1.250	1.5625-12UNJ	1.673	.517	.122	1.375	.385	1.117	.650
24		1.500	1.8125-12UNJ	1.798	.614	.154	1.688	.559	1.620	.941

THIRD ANGLE PROJECTION



CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ MIL-F-18280

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

FITTING, CROSS, SHORT FLARELESS

AS100
SHEET 1 OF 3

**REV.
A**

REV. A	NOTES: /1/ MATERIAL: a. CODE LETTER T: TYPE 6AL-4V TITANIUM ALLOY FORGING OR BAR PER AMS 4928 b. CODE LETTER V: TYPE 15-5PH CORROSION RESISTANT STEEL FORGING OR BAR PER AMS 5659 c. CODE LETTER W: TYPE 7075-T73 ALUMINUM ALLOY BAR PER AMS 4141 OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS 4124 2. HEAT TREATMENT a. MATERIAL CODE LETTER T: NONE b. MATERIAL CODE LETTER V: HEAT TREAT TO CONDITION H-1075 PER AMS 2759/3 c. MATERIAL CODE LETTER W: NONE			
AS100	 /3/ FINISH: a. MATERIAL CODE LETTER T: FLUORIDE PHOSPHATE CONVERSION COAT PER AMS 2486 b. MATERIAL CODE LETTER V: 1. V CODE PARTS TO BE PASSIVATED ONLY WILL HAVE NO FINISH CODE LETTER AFTER THE SIZE CODE IN THE PART NUMBER. THE FINISH WILL BE: PASSIVATE PER QQ-P-35. TYPE II OR VIII. 2. V CODE PARTS TO BE CADMIUM PLATED ONLY WILL HAVE THE FINISH CODE LETTER "P" AFTER THE SIZE CODE IN THE PART NUMBER. THE FINISH WILL BE: CADMIUM PLATE PER QQ-P-416, TYPE II, CLASS 2. c. MATERIAL CODE LETTER W: ANODIZE PER AMS 2472 OR PER MIL-A-8625, TYPE II, CLASS 2 DYED BROWN SIMILAR TO COLOR 10080 OF FED-STD-595. /4/ PROCUREMENT SPECIFICATION: MIL-F-18280 EXCEPT AS SPECIFIED ON THIS STANDARD. THIS PART SHALL BE QUALIFIED TO THE PROCUREMENT SPECIFICATION AS APPLICABLE IN A COMPLETE ASSEMBLY. 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. MANUFACTURER'S NAME, TRADEMARK OR CAGE CODE, BASIC PART NUMBER AND MATERIAL CODE LETTER. 6. THIS PART IS DESIGNED FOR USE IN SYSTEMS WITH OPERATING PRESSURES AS FOLLOWS: a. SIZES -20 AND -24 TITANIUM ALLOY AND CORROSION RESISTANT STEEL AT 3000 psi b. SIZES -20 AND -24 ALUMINUM ALLOY AT 600 psi 7. WHEN MACHINED FROM BAR OR OVERSIZED FORGINGS THE CENTER BODY SECTION SHALL CONFORM TO AS1376 TABLE 10. /8/ RADIUS APPLICABLE FOR TITANIUM PARTS ONLY. /9/ THIS IS A NONREDUCER FITTING. ALL PORTS OF ANY GIVEN PART WILL BE THE SAME SIZE. FOR REDUCERS USE AS102. 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. INVENTORIED PARTS CONFORMING TO THE PREVIOUS "LETTER CHANGE" MAY BE USED TO DEPLETION. 12. INTERPRETATION OF DRAWING PER ARP4296. 13. SURFACE TEXTURE: SYMBOLS PER ANSI Y14.36; REQUIREMENTS PER ANSI/ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 μ in Ra. 14. BREAK EDGES .003 TO .015 UNLESS OTHERWISE SPECIFIED. 15. DIMENSIONING AND TOLERANCING: ANSI Y14.5M. 16. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS $\pm$.010, ANGULAR DIMENSIONS $\pm$ 5°.			
SAE Aerospace An SAE International Group		AEROSPACE STANDARD FITTING, CROSS, SHORT FLARELESS	AS100 SHEET 2 OF 3	REV. A