FEDERAL SUPPLY CLASS
4730

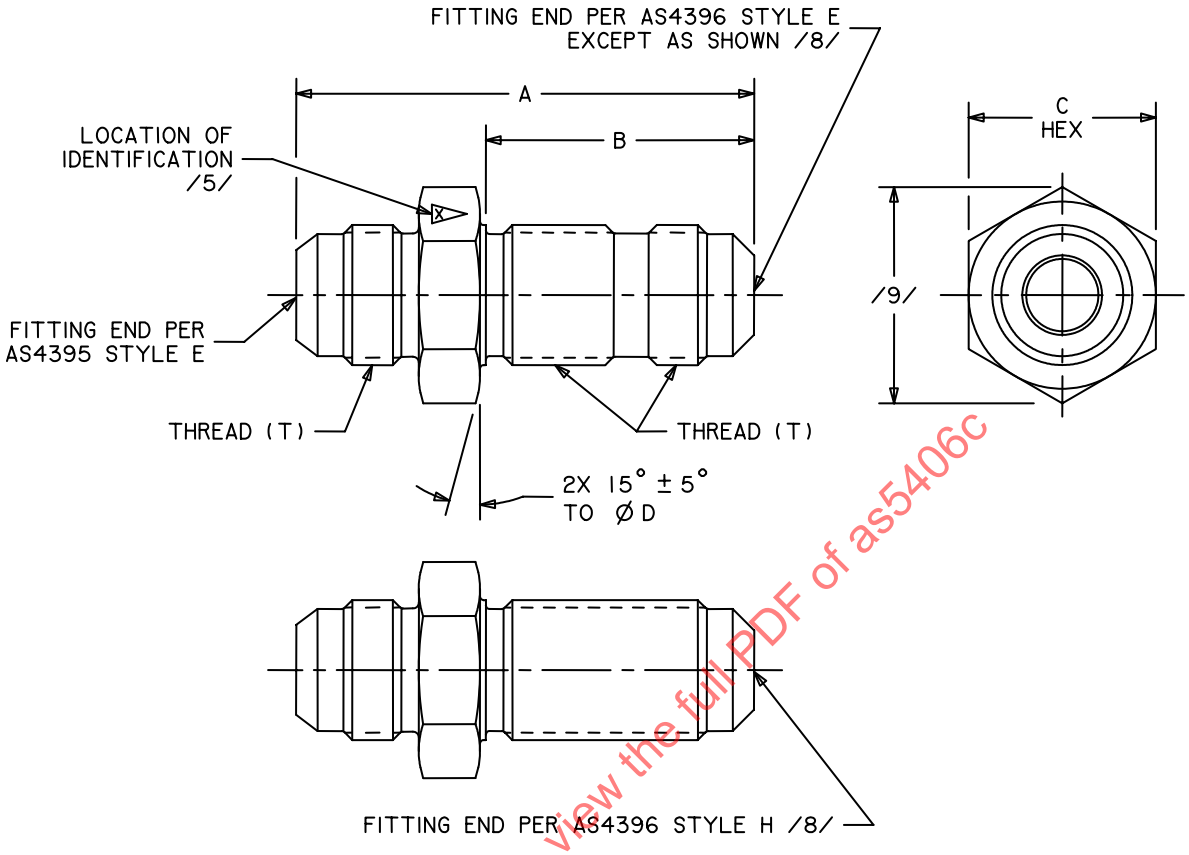
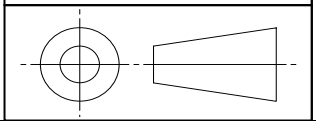


FIGURE 1 – FITTING, UNION

INACTIVE IN PART - SEE NOTE /18/

ISSUED 1999-07 REVISED 2005-01

THIRD ANGLE PROJECTION



SAE 100
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CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS4841

SAE Aerospace
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AEROSPACE STANDARD

FITTING, UNION, TUBE, .375 BULKHEAD

AS5406
SHEET 1 OF 4

REV. C

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TABLE 1 – DIMENSIONS

BASIC NO. AS5406 /17/ SIZE CODE	NOMINAL TUBE SIZE	T THREAD PER AS8879	A	B	C	D ±.010
02	.125	.3125-24 UNJF-3A	1.828	1.109	.552-.565	.542
03	.188	.3750-24 UNJF-3A	1.859	1.109	.615-.628	.605
04	.250	.4375-20 UNJF-3A	2.047	1.203	.678-.691	.668
05	.312	.5000-20 UNJF-3A	2.047	1.203	.740-.753	.730
06	.375	.5625-18 UNJF-3A	2.219	1.281	.802-.815	.792
08	.500	.7500-16 UNJF-3A	2.453	1.437	.990-1.003	.980
10	.625	.8750-14 UNJF-3A	2.719	1.578	1.113-1.128	1.103
12	.750	1.0625-12 UNJ-3A	3.031	1.750	1.363-1.380	1.353
16	1.000	1.3125-12 UNJ-3A	3.078	1.750	1.613-1.630	1.603
20	1.250	1.6250-12 UNJ-3A	3.156	1.797	1.863-1.880	1.853
24	1.500	1.8750-12 UNJ-3A	3.312	1.812	2.109-2.135	2.099
28	1.750	2.2500-12 UNJ-3A	3.578	1.969	2.484-2.510	2.474
32	2.000	2.5000-12 UNJ-3A	3.828	2.094	2.734-2.760	2.724

NOTES:

/1/ MATERIAL:

a. DASH AS CODE LETTER –TYPE 4130 PER AMS 6370, OR TYPE 4140 PER AMS 6382. /2/
b. CODE LETTER D –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 AMS 4339. /18/
c. CODE LETTER J – TYPE 304 CORROSION RESISTANT STEEL BAR PER AMS-QQ-S-763 OR AMS 5639.
d. CODE LETTER K – TYPE 316 CORROSION RESISTANT STEEL BAR PER AMS-QQ-S-763 OR AMS 5648.
e. CODE LETTER R – TYPE 321 CORROSION RESISTANT STEEL BAR PER AMS-QQ-S-763 OR AMS 5645.
f. CODE LETTER T – TYPE 6AL-4V TITANIUM ALLOY BAR PER AMS 4928.
g. CODE LETTER W – TYPE 7075-T73 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/9, OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS 4124.

/2/ HEAT TREATMENT:

a. DASH AS CODE LETTER – SEE HARDNESS REQUIREMENT PER PROCUREMENT SPECIFICATION.
b. 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 D – ANODIZE PER AMS 2472 OR MIL-A-8625, TYPE II, CLASS 2, DYE BLUE, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.
   c. MATERIAL CODE LETTER J – PASSIVATE PER AMS-QQ-P-35, TYPE VI OR VII.
   d. MATERIAL CODE LETTER K – PASSIVATE PER AMS-QQ-P-35, TYPE VI OR VII.
   e. MATERIAL CODE LETTER R – PASSIVATE PER AMS-QQ-P-35, TYPE VI OR VII.
   f. MATERIAL CODE LETTER T – ANODIZE PER AMS 2488 OR FLUORIDE PHOSPHATE CONVERSION COAT PER AMS 2486 WITH COLOR PER PROCUREMENT SPECIFICATION.
   g. 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.

/4/ PROCUREMENT SPECIFICATION: AS4841 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: (CAUTION: AS4396 STYLE APPLICATION IN INTERNALLY THREADED PORTS IS SUITABLE FOR 1500 psi MAXIMUM PRESSURE ONLY.)

   a. SIZES 02 THROUGH 12 IN ALUMINUM ALLOY AND SIZES 02 THROUGH 16 IN STEEL, CORROSION RESISTANT STEEL, AND TITANIUM AT 3000 psi.
   b. SIZES 16 THROUGH 32 IN ALUMINUM ALLOY AND SIZES 20 THROUGH 32 IN STEEL, CORROSION RESISTANT STEEL, AND TITANIUM AT 1500 psi.

7. THIS STANDARD IS A FUNCTIONAL EQUIVALENT OF AN832 AND MS24393 AND IS INTENDED TO BE SUITABLE AS A REPLACEMENT STANDARD FOR APPLICATIONS REQUIRING ASSEMBLY OF BULKHEAD END THROUGH .375 INCH THICK ARMOR PLATE. USE AS1037 FOR APPLICATIONS NOT INVOLVING ARMOR PLATE.

/8/ FITTINGS WITH AS4396 STYLE E ENDS MAY BE ASSEMBLED INTO INTERNALLY THREADED PORTS BUT ARE HISTORICALLY UNRELIABLE AND ARE ONLY SUITABLE IN THAT APPLICATION FOR 1500 PSI MAX PRESSURE. FITTINGS WITH AS4396 STYLE H ENDS MAY BE DESIGNATED WITH THE SUFFIX H AFTER THE PART NUMBER AND CANNOT BE USED IN PORTS.

/9/ THE HEX CORNERS MAY BE ROUNDED PER ARP1942.

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 µin Ra. SURFACES OF HEX FLATS MAY BE 250 µin Ra.