

REV.
A

SAE AS4222

FEDERAL SUPPLY CLASS
4730

RATIONALE

AS4222A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

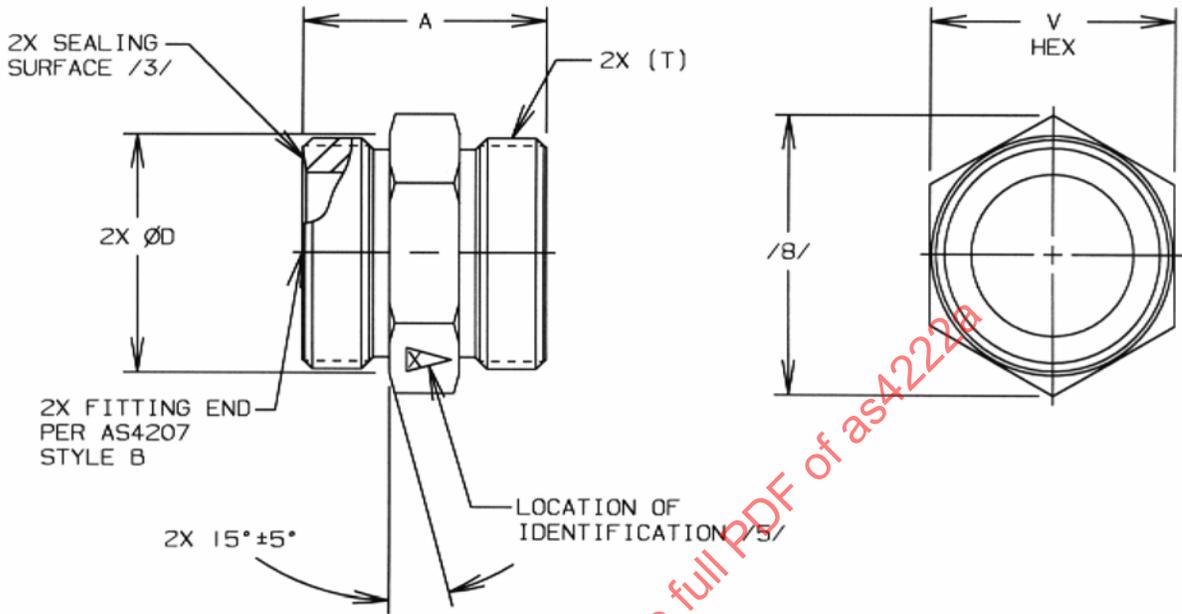


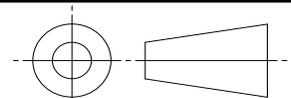
FIGURE 1 - FITTING, UNION

TABLE 1 - DIMENSIONS AND WEIGHTS

BASIC NO. AS4222 /15/ SIZE CODE	(NOMINAL TUBE SIZE)	T THREAD PER AS8879 CLASS 3A	A	D ±.010	V	LB/EA APPROX REF CRES	LB/EA APPROX REF TI
03	.188	.3750-28 UNJS	.622	.418	.428-.440	.0162	.00910
04	.250	.4375-24 UNJS	.712	.480	.490-.502	.0249	.0140
05	.312	.5000-24 UNJS	.724	.542	.552-.565	.0321	.0181
06	.375	.5625-20 UNJS	.778	.605	.615-.628	.0390	.0220
08	.500	.7188-20 UNJS	.858	.730	.740-.753	.0743	.0420
10	.625	.8438-18 UNJS	1.036	.855	.865-.878	.112	.0635
12	.750	1.0000-16 UNJ	1.124	1.040	1.050-1.065	.145	.0819
14	.875	1.1250-16 UNJ	1.166	1.166	1.176-1.191	.176	.0995
16	1.000	1.2500-14 UNJS	1.292	1.290	1.300-1.317	.239	.135
20	1.250	1.5781-14 UNJS	1.326	1.603	1.613-1.630	.403	.228
24	1.500	1.8438-14 UNJS	1.522	1.853	1.863-1.880	.606	.342

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS4222A>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS85421, AS85720

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

FITTING, UNION, BEAM SEAL

SAE AS4222
SHEET 1 OF 3

REV. A

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user." SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

ISSUED 1996-05 REVISED 2003-11 REAFFIRMED 2013-01

NOTES:

/1/ MATERIAL:

- a. CODE LETTER T - TYPE 6AL-4V TITANIUM ALLOY BAR PER AMS 4965.
- b. CODE LETTER P - TYPE 17-4PH CORROSION RESISTANT STEEL BAR, HEAT TREATED TO CONDITION H 1075 PER AMS 5643.
- c. CODE LETTER V - TYPE 15-5PH CORROSION RESISTANT STEEL BAR, HEAT TREATED TO CONDITION H 1075 PER AMS 5659.

2. FINISH:

- a. MATERIAL CODE LETTER T - NONE.
- b. MATERIAL CODE LETTERS P AND V - PASSIVATE PER AMS-QQ-P-35, TYPE II OR VIII.

/3/ SOLID FILM LUBRICANT: APPLY SOLID FILM LUBRICANT PER AS5272, TYPE I TO SEALING SURFACE. OVERSPRAY IN BORE IS NOT PERMITTED.

/4/ PROCUREMENT SPECIFICATION: AS85421 FOR OPERATING PRESSURES TO 4000 PSI AND AS85720 FOR OPERATING PRESSURES TO 5000 PSI, 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. /6/

- a. FOR SIZES 06 (.375 OD TUBE SIZE) AND SMALLER: MARK MANUFACTURER'S NAME OR TRADEMARK OR CAGE CODE, LETTERS "AS" AND MATERIAL CODE LETTER.
- b. FOR SIZES 08 (.500 OD TUBE SIZE) AND LARGER: MARK MANUFACTURER'S NAME OR TRADEMARK OR CAGE CODE, BASIC PART NUMBER AND MATERIAL CODE LETTER.

/6/ THIS PART IS DESIGNED FOR USE IN SYSTEMS WITH MAXIMUM OPERATING PRESSURES AS FOLLOWS:

- a. SIZES 03 THROUGH 16 AT 5000 PSI
- b. SIZE 20 AT 4000 PSI
- c. SIZE 24 AT 2000 PSI

7. INTERPRETATION OF DRAWING PER ARP4296.

/8/ HEX CORNERS MAY BE ROUND PER ARP1942 FOR PARTS MANUFACTURED FROM ROUND STOCK.

9. THE CHANGE BAR (1) 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.

10. INVENTORIED PARTS CONFORMING TO THE PREVIOUS LETTER CHANGE MAY BE USED TO DEPLETION.

 An SAE International Group	AEROSPACE STANDARD	SAE AS4222 SHEET 2 OF 3	REV. A
	FITTING, UNION, BEAM SEAL		