

REV.
B

AS4223™

FEDERAL SUPPLY CLASS
4730

RATIONALE

REMOVE "DUAL" PROCUREMENT SPECIFICATION REQUIREMENTS BY REMOVING AS85720 AND 5000 psi PRESSURE REQUIREMENTS. MAKE REFERENCE TO AS8461 (5000 psi) ALTERNATIVE. ADD LEADER LINES FOR DIAMETER "H" AND STANDARDIZE THE FONTS IN THE DELINEATION AND NOTE 13 EXAMPLE OF PART NUMBERS. RE-FORMAT TABLE 1 TO CURRENT STYLE MANUAL REQUIREMENTS. MAKE CHANGES TO NOTE 7 PRESSURES THAT ARE ALIGNED WITH AS85421 PRESSURE REQUIREMENTS.

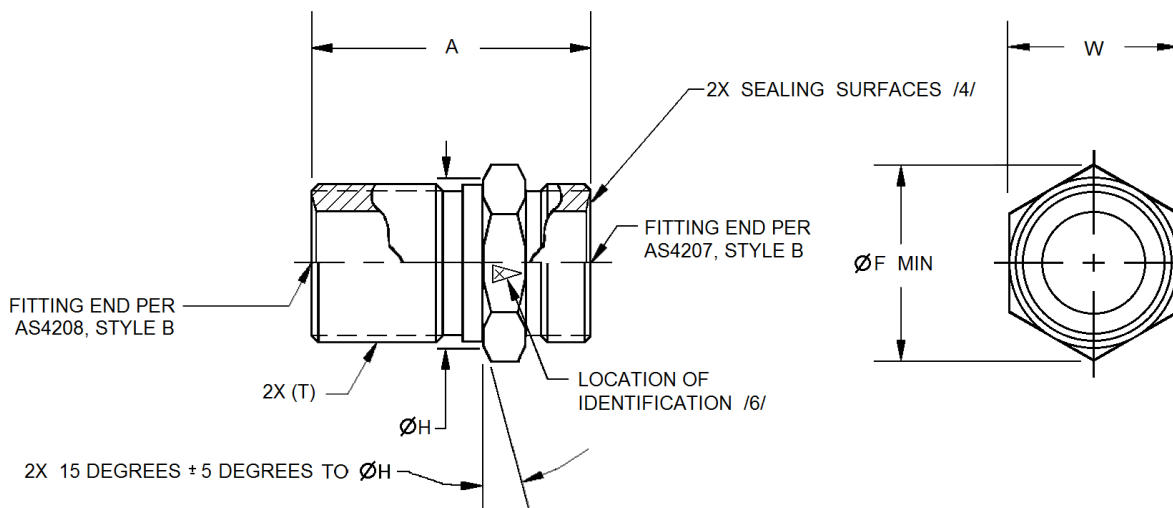


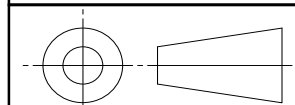
FIGURE 1 - FITTING, UNION, BULKHEAD

TABLE 1 - DIMENSIONS AND WEIGHTS

BASIC NO. AS4223 /13/ SIZE CODE	(NOMINAL TUBE SIZE)	T THREAD PER AS8879 CLASS A	A	F MIN	H ±.010	W	MASS LB/EA APPROX REF CRES	MASS LB/EA APPROX REF TI
03	.188	.3750-28 UNJS	1.019	.706	.605	.615-.628	.0348	.0199
04	.250	.4375-24 UNJS	1.187	.775	.668	.678-.691	.0541	.0309
05	.312	.5000-24 UNJS	1.197	.848	.730	.740-.753	.0684	.0391
06	.375	.5625-20 UNJS	1.302	.919	.792	.802-.815	.0874	.0499
08	.500	.7188-20 UNJS	1.363	1.120	.980	.990-1.003	.136	.0780
10	.625	.8438-18 UNJS	1.572	1.260	1.103	1.113-1.128	.187	.107
12	.750	1.0000-16 UNJ	1.774	1.400	1.228	1.238-1.253	.262	.150
14	.875	1.1250-16 UNJ	1.852	1.540	1.353	1.363-1.380	.325	.186
16	1.000	1.2500-14 UNJS	1.928	1.650	1.478	1.488-1.505	.398	.228
20	1.250	1.5781-14 UNJS	1.971	2.063	1.853	1.863-1.880	.574	.328
24	1.500	1.8438-14 UNJS	2.226	2.338	2.099	2.109-2.135	.896	.512

SAE values your input. To provide feedback on this Technical Report, please visit <http://standards.sae.org/AS4223B>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS85421 /5/



AEROSPACE STANDARD

(R) FITTING, UNION, BULKHEAD
BEAM SEAL

AS4223™
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NOTES:

/1/ MATERIAL:

- a. CODE LETTER "T": TYPE 6AL-4V TITANIUM ALLOY PER AMS4965.
- b. CODE LETTER "P": TYPE 17-4PH CORROSION RESISTANT STEEL BAR PER AMS5643.
- c. CODE LETTER "V": TYPE 15-5PH CORROSION RESISTANT STEEL BAR PER AMS5659.

2. HEAT TREATMENT:

- a. MATERIAL CODE LETTER "T": NONE.
- b. MATERIAL CODE LETTER "P" AND "V": HEAT TREAT TO CONDITION H1075 PER AMS2759/3.

3. FINISH:

- a. MATERIAL CODE LETTER "T": NONE.
- b. MATERIAL CODE "P" AND "V": PASSIVATE PER AMS2700, TYPE 2 OR 8.

/4/ SOLID FILM LUBRICANT: APPLY SOLID FILM LUBRICANT PER AS5272 TYPE I TO SEALING SURFACE. OVERSPRAY IN BORE IS NOT PERMITTED.

/5/ PROCUREMENT SPECIFICATION: AS85421 FOR OPERATING PRESSURES TO 4000 psi, EXCEPT AS SPECIFIED ON THIS STANDARD. THIS PART SHALL BE QUALIFIED TO THE PROCUREMENT SPECIFICATION AS APPLICABLE IN A COMPLETE ASSEMBLY. PRODUCT SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED BY THE ACCREDITED MANUFACTURER LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCT LIST (QPL) PRI-QPL-AS85421 AS APPLICABLE FOR THIS STANDARD. SEE www.eAuditNet.com FOR CURRENT QPL ONLINE.

/6/ IDENTIFICATION AT LOCATION SHOWN: MARK PER AS478 CLASS C OR D OR METHOD 7A3, 15A3, OR 15B. /7/

- a. FOR SIZES 06 (.375 OD TUBE SIZE) AND SMALLER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, MATERIAL CODE LETTER, AND MAXIMUM PRESSURE RATING. (EXAMPLE: 3K = 3000 psi.)
- b. FOR SIZES 08 (.500 OD TUBE SIZE) AND LARGER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, BASIC PART NUMBER, MATERIAL CODE LETTER, AND MAXIMUM PRESSURE RATING. (EXAMPLE: 4K = 4000 psi.)

/7/ THIS PART IS DESIGNED FOR USE IN SYSTEMS WITH MAXIMUM OPERATING PRESSURES AS FOLLOWS:

- a. SIZES 03 THRU 20 AT 4000 psi (FOR TI); 3000 psi (FOR CRES).
- b. SIZE 24 AT 2000 psi (FOR TI); 1500 psi (FOR CRES).
- c. FOR OPERATING PRESSURES UP TO 5000 psi, REFER TO AS8461.

8. INTERPRETATION OF DRAWING PER AS4296.

9. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M; REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 MICROINCHES Ra. SURFACES OF HEX FLATS MAY BE 125 MICROINCHES Ra.

10. REMOVE ALL BURRS AND BREAK EDGES .003 TO .015, UNLESS OTHERWISE SPECIFIED.

11. DIMENSIONING AND TOLERANCING: ASME Y14.5M-1994.

12. DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DIMENSIONS LINEAR ± 0.015 , ANGULAR $\pm 5^\circ$.

	AEROSPACE STANDARD	AS4223™ SHEET 2 OF 3	REV. B
	(R) FITTING, UNION, BULKHEAD BEAM SEAL		



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