

REV.
A

AS4223

FEDERAL SUPPLY CLASS
4730

RATIONALE

AS4223A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

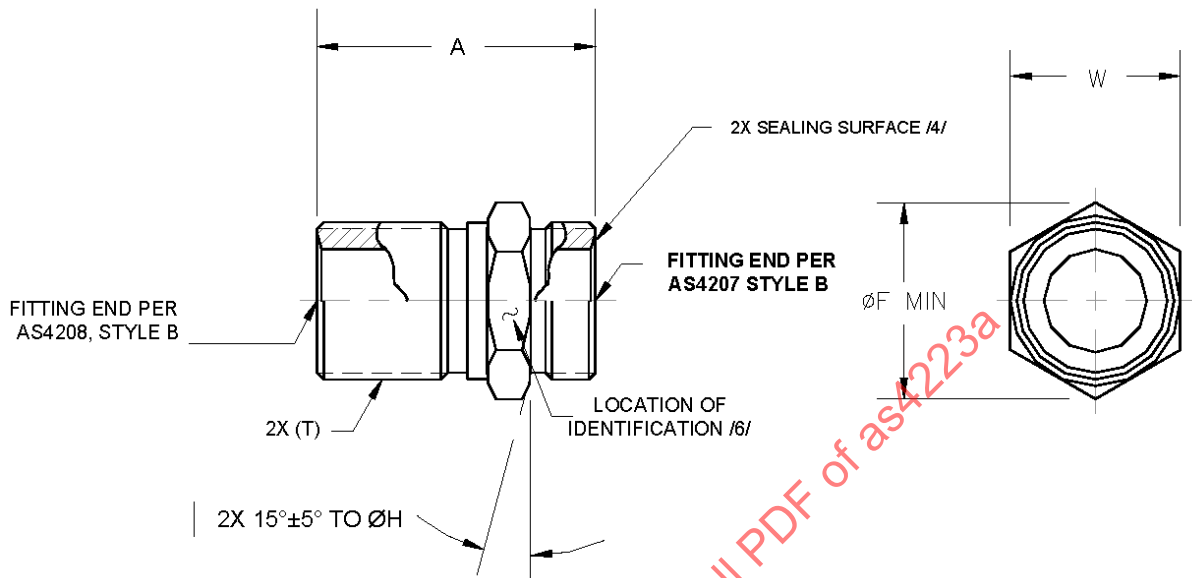


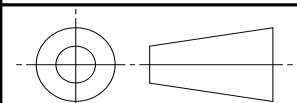
FIGURE 1 - FITTING, UNION, BULKHEAD

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	LB/EA MAX CRES	LB/EA MAX 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://www.sae.org/technical/standards/AS4223A>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /5/ AS85421, AS85720



AEROSPACE STANDARD

FITTING, UNION, BULKHEAD
BEAM SEAL

AS4223
SHEET 1 OF 3

REV.
A

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. OVERSPRAY IN BORE IS NOT PERMITTED.

/5/ PROCUREMENT SPECIFICATION:

- a. AS85421: PRODUCT SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED BY AN ACCREDITED MANUFACTURER AS LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCTS LIST FOR PRI-QPL-AS85421 FOR THIS STANDARD FOR SIZES 20 AND 24 ONLY. SEE <http://www.pri.sae.org/QPL/as85421.pdf> FOR CURRENT QPL ONLINE.
- b. AS85720: SAME AS 5a EXCEPT LIMITED TO SIZES 03 THROUGH 16.

/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 OR TRADEMARK, MATERIAL CODE LETTER, AND MAXIMUM PRESSURE RATING. (EXAMPLE: 5K = 5000 PSI.)
- b. FOR SIZES 08 (.500 OD TUBE SIZE) AND LARGER: MANUFACTURER'S NAME OR TRADEMARK, BASIC PART NUMBER, MATERIAL CODE LETTER, AND MAXIMUM PRESSURE RATING. (EXAMPLE: 5K = 5000 PSI.)

/7/ 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

8. INTERPRETATION OF DRAWING PER ARP4296.

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

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

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

	AEROSPACE STANDARD	AS4223 SHEET 2 OF 3	REV. A
	FITTING, UNION, BULKHEAD BEAM SEAL		