

REV.
A

AS4214

RATIONALE

AS4214A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

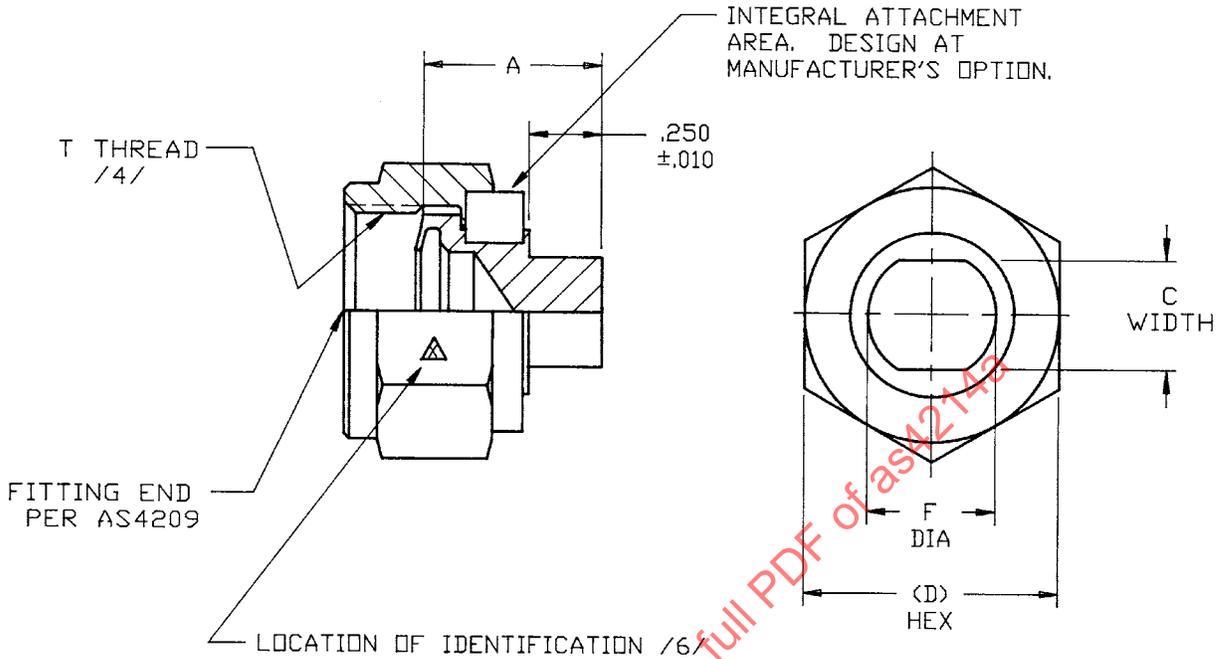


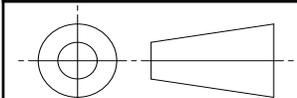
FIGURE 1 - CAP ASSEMBLY BEAM SEAL

TABLE 1A - DIMENSIONS A-D

BASIC NO. AS4214 /12/ SIZE CODE	(NOMINAL TUBE SIZE)	PER AS8879 CLASS 3B T THREAD	A ±.015	C ±.020	(D)
03	.188	.3750-28 UNJS	.604	.188	.500
04	.250	.4375-24 UNJS	.600	.188	.562
05	.312	.5000-24 UNJS	.600	.250	.625
06	.375	.5625-20 UNJS	.640	.250	.688
08	.500	.7188-20 UNJS	.615	.375	.875
10	.625	.8438-18 UNJS	.615	.375	1.000
12	.750	1.0000-16 UNJ	.646	.375	1.125
14	.875	1.1250-16 UNJ	.705	.500	1.375
16	1.000	1.2500-14 UNJS	.721	.500	1.500
20 /7/	1.250	1.5781-14 UNJS	.791	.500	1.875
24 /7/	1.500	1.8438-14 UNJS	.808	.500	2.125

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS4214A>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /5/ MIL-F-85421, MIL-F-85720



AEROSPACE STANDARD

(R) FITTING, CAP ASSEMBLY, BEAM SEAL, HYDRAULIC

AS4214
SHEET 1 OF 3

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TABLE 1B - DIMENSION F AND WEIGHT

BASIC NO. AS4214 /12/ SIZE CODE	F ±.010	LB/EA MAX CRES	LB/EA MAX TI
03	.220	.018	.010
04	.220	.034	.019
05	.330	.037	.021
06	.330	.050	.028
08	.440	.060	.034
10	.440	.106	.060
12	.440	.144	.082
14	.600	TBD	TBD
16	.600	.285	.162
20 /7/	.600	.492	.280
24 /7/	.600	.532	.303

NOTES:

1. MATERIAL:
 - a. CODE LETTER P-TYPE 17-4PH CORROSION RESISTANT STEEL PER AMS 5643
 - b. CODE LETTER T-TYPE 6AL-4V TITANIUM ALLOY (SOLUTION AND PRECIPITATION HEAT TREATED) PER AMS 4965
 - c. CODE LETTER V-TYPE 15-5PH CORROSION RESISTANT STEEL PER AMS 5659
2. HEAT TREATMENT: CORROSION RESISTANT STEEL TO CONDITION H1075 PER AMS 275/3.
3. FINISH:
 - a. CORROSION RESISTANT STEEL: PASSIVATE PER QQ-P-35, TYPE II OR VIII
 - b. TITANIUM: NONE
- /4/ SOLID FILM LUBRICANT: APPLY SOLID FILM LUBRICANT PER AS5272, TYPE 1 TO INTERNAL SURFACES OF NUT, OVER SPRAY ON NUT IS PERMITTED.
- /5/ PROCUREMENT SPECIFICATIONS: MIL-F-85421 FOR OPERATING PRESSURES TO 4000 PSI AND MIL-F-85720 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.
- /6/ IDENTIFICATION AT LOCATION SHOWN: MARK PER AS478-7A3, -15A3, -15B CLASS C OR CLASS D.
 - a. FOR SIZES 06 (.375 OD TUBE SIZE) AND SMALLER, MANUFACTURER'S NAME OR TRADEMARK, MATERIAL CODE LETTER, AND PRESSURE RATING (EXAMPLE: 4k - 4000 PSI)
 - b. FOR SIZE 08 (.500 OD TUBE SIZE) AND LARGER, MANUFACTURER'S NAME OR TRADEMARK, BASIC PART NUMBER, MATERIAL CODE LETTER, AND PRESSURE RATING (EXAMPLE: 4k = 4000 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 3000 PSI
 - c. SIZE 24 AT 2000 PSI
8. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO 125 µin Ra.
9. BREAK EDGES .003 TO .015 UNLESS OTHERWISE SPECIFIED.

	AEROSPACE STANDARD	AS4214 SHEET 2 OF 3	REV. A
	(R) FITTING, CAP ASSEMBLY, BEAM SEAL, HYDRAULIC		