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REV.
C

AS4301

FEDERAL SUPPLY CLASS
4730

RATIONALE

CORRECTED END 2 TO STYLE "E" IN FIGURE 1, UPDATED NOTE /4/ TO DELETE "PRI" STATEMENT AND CORRECT THE NADCAP SCOPE TO AC7112, AC7112/2.

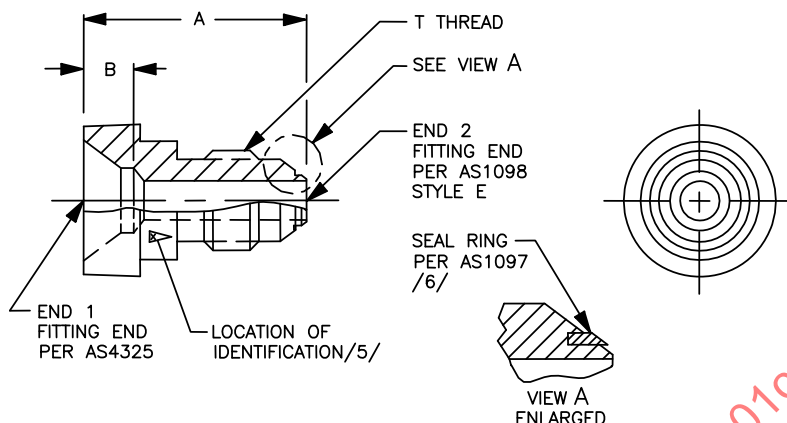


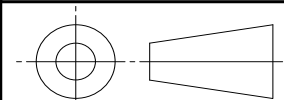
FIGURE 1 - FITTING, REDUCER, ADAPTER, CONICAL END TO FLARED TUBE

TABLE 1 - DIMENSIONS AND WEIGHTS

BASIC NUMBER AS4301 /14/ SIZE CODE	(NOMINAL TUBE SIZE) END 1	(NOMINAL TUBE SIZE) END 2	T THREAD PER AS8879 CLASS 3A END 2	A + .000 - .075	B	LB/EA APPROX REF ALUM	LB/EA APPROX REF CRES
0604	.375	.250	.4375-20UNJF	.974	.219	.0100	.0278
0804	.500	.250	.4375-20UNJF	1.005	.313	.0139	.0385
0806	.500	.375	.5625-18UNJF	1.005	.313	.0164	.0455
1006	.625	.375	.5625-18UNJF	1.036	.281	.0197	.0546
1204	.750	.250	.4375-20UNJF	1.099	.313	.0245	.0679
1206	.750	.375	.5625-18UNJF	1.099	.313	.0269	.0746
1208	.750	.500	.7500-16 UNJF	1.193	.313	.0363	.101
1608	1.000	.500	.7500-16 UNJF	1.271	.344	.0488	.135
1612	1.000	.750	1.0625-12UNJ	1.474	.344	.0743	.206
2008	1.250	.500	.7500-16 UNJF	1.411	.438	.0685	.190
2012	1.250	.750	1.0625-12UNJ	1.536	.375	.0891	.247
2016	1.250	1.000	1.3125-12UNJ	1.599	.438	.109	.301
2412	1.500	.750	1.0625-12UNJ	1.630	.406	.109	.303
2416	1.500	1.000	1.3125-12UNJ	1.630	.406	.124	.344
2420	1.500	1.250	1.6250-12UNJ	1.693	.500	.165	.442
3216	2.000	1.000	1.3125-12UNJ	2.036	.625	.284	.786
3220	2.000	1.250	1.6250-12UNJ	1.786	.469	.277	.766
3224	2.000	1.500	1.8750-12UNJ	1.911	.531	.184	.510

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS4301C>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ KSC-F-124



AEROSPACE STANDARD

FITTING, ADAPTER, CONICAL END
TO FLARED TUBE REDUCER
FOR SEAL RING

AS4301
SHEET 1 OF 3

REV.
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NOTES:

/1/ MATERIAL:

- a. CODE LETTER D: TYPE 2024-T6 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6 OR AMS4112; OR TYPE 2024-T851 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6.
- b. CODE LETTER J: 304 CORROSION RESISTANT STEEL BAR PER AMS-QQ-S-763 OR AMS5639.
- c. CODE LETTER K: 316 CORROSION RESISTANT STEEL BAR PER AMS-QQ-S-763 OR AMS5648.
- d. CODE LETTER R: 321 CORROSION RESISTANT STEEL BAR PER AMS-QQ-S-763 OR AMS5645.
- e. CODE LETTER S: 347 CORROSION RESISTANT STEEL BAR PER AMS-QQ-S-763 OR AMS5646.
- f. CODE LETTER W: TYPE 7075-T73 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/9 OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS4124.

2. HEAT TREAT:

- a. ALL CODE LETTERS: NONE

3. FINISH:

- a. MATERIAL CODE LETTER D: ANODIZE PER AMS2472 OR MIL-A-8625 TYPE II, CLASS 2, DYE BLUE AND DUPLEX SEAL PER PROCUREMENT SPECIFICATION.
- b. MATERIAL CODE LETTERS J, K, R, AND S; PASSIVATE PER AMS2700, TYPE 6 OR TYPE 7.
- c. MATERIAL CODE LETTER W: ANODIZE PER AMS2472 OR MIL-A-8625, TYPE II, CLASS 2, DYE BROWN, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.

/4/ PROCUREMENT SPECIFICATION: KSC-F-124 JOHN F KENNEDY SPACE CENTER, NASA, SPECIFICATION FOR FITTINGS (PRESSURE CONNECTIONS), FLARED TUBE. PRODUCT SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED BY AN ACCREDITED MANUFACTURER LISTED IN THE NATIONAL AEROSPACE AND DEFENSE CONTRACTORS ACCREDITATION PROGRAM (NADCAP) QUALIFIED MANUFACTURERS LIST (QML) AC7112, AC7112/2 FOR SIMILAR FLARED FITTINGS. THE QML IS AVAILABLE AT www.eAuditNet.com.

/5/ IDENTIFICATION: MARK PER AS478 CLASS C OR CLASS D; METHOD 7A3, 15A3, OR 15B.

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

/6/ THE SEAL RING IS ORDERED SEPARATELY AS AN AS1097.

7. INTERPRETATION OF DRAWING PER AS4296.

8. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES ARE TO BE 125 MICROINCHES Ra.

9. BREAK EDGES .003 TO .015 UNLESS OTHERWISE SPECIFIED.

10. DIMENSIONING AND TOLERANCING: ANSI Y14.5M-1982.

	AEROSPACE STANDARD	AS4301 SHEET 2 OF 3	REV. C
	FITTING, ADAPTER, CONICAL END TO FLARED TUBE REDUCER FOR SEAL RING		