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REV.
A

AS4316™

FEDERAL SUPPLY CLASS
4730

RATIONALE

OPTION FOR NUTS WITH SAFETY WIRE HOLES ADDED. "NOT RECOMMENDED IN PART" NOTE ADDED TO SHEET 1. WEIGHTS WERE PREVIOUSLY SPECIFIED AS "MAXIMUM" WEIGHTS. WEIGHTS FOR TITANIUM FITTINGS ADDED TO TABLE 1B. MATERIAL AND FINISH SPECIFIC SPECS ADDED TO NUT AND WIRE ENSURING "LIKE MATERIALS" ARE USED ON FITTING ASSEMBLY. OPTIONAL MATERIAL CODES R, T, AND W ADDED. PROCUREMENT SPECIFICATION NOTE REVISED TO INCLUDE "USER TO CONTROL SOURCE OF SUPPLY." MARKING NOTE /5/-a REVISED TO INCLUDE LETTERS "AS" WHEN MARKING SIZES 06 AND SMALLER. NOTE /6/ STATING "COMPONENTS OF LIKE MATERIAL SHALL BE ASSEMBLED ON BODY" REMOVED (SPECIFIC MATERIALS ARE NOW SPECIFIED ON THIS STANDARD) AND REPLACED BY INVENTORY DISPOSITION NOTE. ALLOWANCE FOR FORGED SURFACES TO BE 250 MICROINCHES ADDED TO NOTE 10. OPTION FOR NUTS WITH SAFETY WIRE HOLES ADDED. RECOMMENDED MATERIAL REPLACEMENT NOTE /16/ ADDED. REVISION INDICATOR NOTE 17 ADDED.

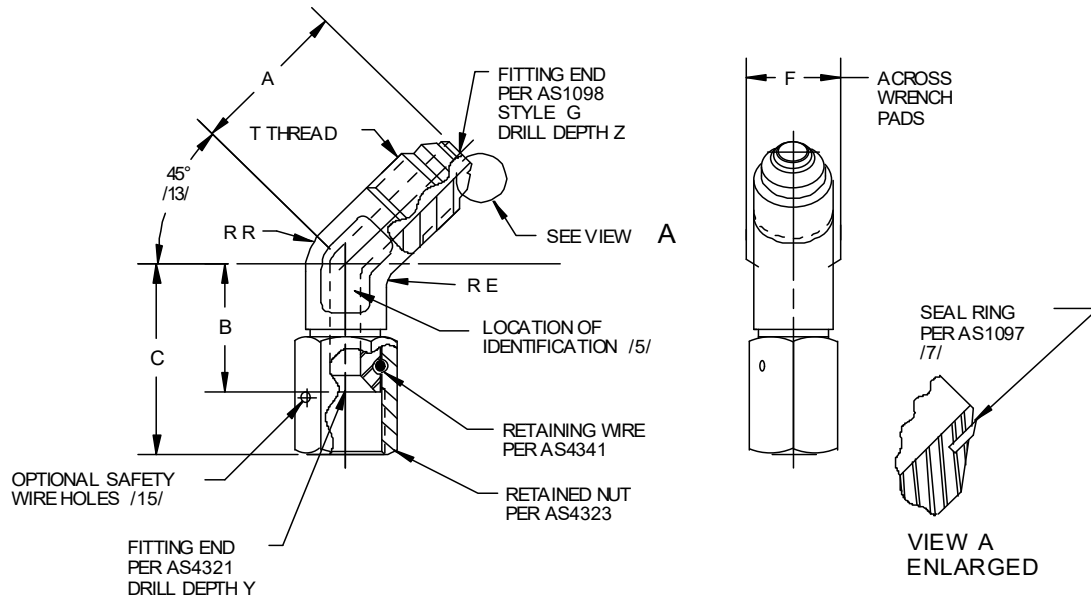
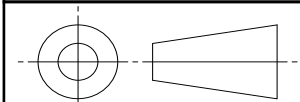


FIGURE 1 - ELBOW ASSEMBLY 45°, FLARED TUBE TO RETAINED NUT

NOT RECOMMENDED IN PART /16/

For more information on this standard, visit
<https://www.sae.org/standards/content/AS4316A/>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: KSC-F-124 /4/



AEROSPACE STANDARD

(R) ELBOW ASSEMBLY 45°, FLARED TUBE
TO RETAINED NUT, FOR SEAL RING

AS4316™
SHEET 1 OF 4

REV.
A

Documents

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TABLE 1 - DIMENSIONS A-Z

BASIC NUMBER AS4316 /14/ SIZE CODE	(NOMINAL TUBE SIZE)	T THREAD PER AS8879 CLASS 3A	A +.000 -.063	B +.000 -.031	C REF	E ±.030	F	R ±.030	Y +.016 -.011	Z +.047 -.011
04	.250	.4375-20 UNJF	.750	.610	.938	.063	.438	.242	.656	.766
06	.375	.5625-18 UNJF	.860	.766	1.125	.094	.563	.317	.828	.891
08	.500	.7500-16 UNJF	1.016	.875	1.281	.094	.750	.414	.953	1.063
10	.625	.8750-14 UNJF	1.141	.954	1.438	.125	.875	.484	1.047	1.203
12	.750	1.0625-12 UNJ	1.313	.954	1.500	.125	1.063	.586	1.063	1.391
16	1.000	1.3125-12 UNJ	1.500	1.172	1.750	.125	1.313	.719	1.328	1.625
20	1.250	1.6250-12 UNJ	1.625	1.422	2.031	.125	1.625	.875	1.625	1.797
24	1.500	1.8750-12 UNJ	1.813	1.532	2.250	.125	1.875	1.031	1.781	2.031
28	1.750	2.2500-12 UNJ	2.000	1.766	2.619	.188	2.250	1.125	2.031	2.266
32	2.000	2.5000-12 UNJ	2.250	1.985	2.906	.250	2.500	1.383	2.313	2.578

TABLE 1B - WEIGHTS

BASIC NUMBER AS4316 /14/ SIZE CODE	(NOMINAL TUBE SIZE)	LB/EA APPROX REF ALUM	LB/EA APPROX REF CRES	LB/EA APPROX REF TITANIUM
04	.250	.0260	.0722	.040
06	.375	.0443	.123	.068
08	.500	.0808	.224	.124
10	.625	.124	.343	.191
12	.750	.206	.570	.317
16	1.000	.307	.852	.472
20	1.250	.579	1.600	.891
24	1.500	.769	2.130	1.183
28	1.750	.854	2.370	1.314
32	2.000	1.010	2.790	1.554

NOTES:

/1/ MATERIAL:

a. CODE LETTER D: /16/

- (1) BODY: TYPE 2014-T6 ALUMINUM ALLOY FORGING PER AMS-QQ-A-367 OR AMS4133; OR 2024-T6 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6; OR 2024-T851 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6 OR AMS4339.
- (2) NUT: CODE LETTER D OF AS4323 (TYPE 2024 ALUMINUM ALLOY).
- (3) WIRE: PER AS4341 (TYPE 302, 304, OR 305 CORROSION-RESISTANT STEEL).

b. CODE LETTER J:

- (1) BODY: TYPE 304 CORROSION-RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5639.
- (2) NUT: CODE LETTER J OF AS4323 (TYPE 304 CORROSION-RESISTANT STEEL).
- (3) WIRE: PER AS4341 (TYPE 302, 304, OR 305 CORROSION-RESISTANT STEEL).

	AEROSPACE STANDARD		AS4316™ SHEET 1 OF 1	REV. A
	(R) ELBOW ASSEMBLY 45°, FLARED TUBE TO RETAINED NUT, FOR SEAL RING			

