

REV.
D

AS5174

FEDERAL SUPPLY CLASS
4730

RATIONALE

- 1 THIS STANDARD IS BEING REVISED TO REDUCE THE OPERATING PRESSURES FOR ALUMINUM, SIZES -10 AND ABOVE. THIS WAS PROMPTED BY MS20819/AS5176 WHICH ELIMINATED ALUMINUM AS AN OPTIONAL METAL. AND AS A RESULT, THE OPERATING PRESSURES FOR MANY OTHER MIL-F-5509/AS4841 AS4842/AS4843/AS4875 FLARED FITTING PARTS, THAT USED ALUMINUM, WERE REDUCED, FOR SIZES -10 AND ABOVE.
- 2 RESTORE 347 CORROSION RESISTANT STEEL AS A MATERIAL OPTION.
- 3 ADDED PRI/QML NOTE TO LATEST LANGUAGE APPROVED BY THE G-3 COMMITTEE.
- 4 INACTIVATED MATERIAL CODE LETTER D FOR CODE LETTER W.
- 5 ADDED CADMIUM WARNING NOTE PER AEROSPACE COUNCIL DIRECTIVE
- 6 UPDATED SPECIFICATION TO CURRENT AND ACTIVE G-3 DOCUMENT, STYLE FORMAT.
- 7 ADDED DOD ISA NOTE TO MAINTAIN NATO TREATY, STANAG AGREEMENT.
- 8 ADDED TITANIUM NOTE /22/
- 9 REDUCED WEIGHTS
- 10 ADDED IVD FINISH AND FLAG NOTE /23/ TO PIN FOR "V" FINISH OPTION FOR ALUMINUM.
- 11 CORRECTED THE PROCUREMENT SPECIFICATION CALLOUT FROM AS4875 TO AS4875/1.
- 12 REVISED FIGURE 1 DRAWING TO OBTAIN COAXIAL RELATIONSHIPS.
- 13 ADDED CODE S FOR 347 CRES WHICH WAS ORIGINALLY ON DOD DOCUMENTS AN815, AN919, MS24392 AND MS24399
- 14 ADDED NOTE /23/ FOR LEGACY OF 347 AND CODE D, AND TO SHOW G-3 AGREEMENT FROM PANEL MEETING MINUTES ON CRES 347 VS CRES 321, IN SAVANNAH GA., SEP, 2006.

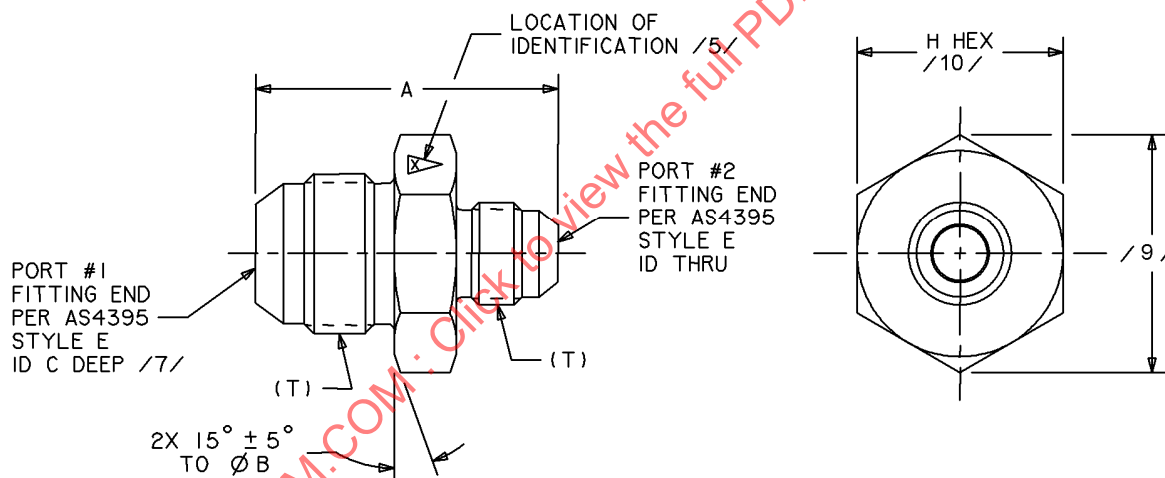
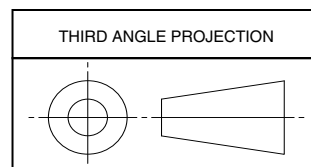


FIGURE 1 - FITTING, UNION AND REDUCER

INACTIVE IN PART /23/



CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS4841

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

FITTING, UNION AND REDUCER, FLARED

AS5174
SHEET 1 OF 7

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TABLE 1A - DIMENSION A /12/

[illegible]

[illegible]

C±.031 PORT #2	C±.031 PORT #2	C±.031 PORT #2	C±.031 PORT #2	C±.031 PORT #2	C±.031 PORT #2	C±.031 PORT #2
SIZE CODE	SIZE CODE	SIZE CODE	SIZE CODE	SIZE CODE	SIZE CODE	SIZE CODE
04	05	06	08	10	12	16
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
.609		-	-	-	-	-
.625	.625		-	-	-	-
.719	.719	.719	-	-	-	-
.797	-	.797	.797	-	-	-
.891	.891	.891	.891	.891	-	-
.891	-	-	.891	.891	.891	-
.859	-	-	-	-	.859	.859
-	-	-	-	-	-	.906

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TABLE 1C - DIMENSIONS AND WEIGHTS /10/

PORT SIZE CODE	(NOMINAL TUBE SIZE)	T THREAD PER			LB/EA	LB/EA	LB/EA
		AS8879	B		APPROX	APPROX	APPROX
		CLASS 3A	±.010	H	REF AL	REF STEEL	REF TI
02	.125	.3125-24 UNJF	.542	.552- .565	0.014	0.039	0.022
03	.188	.3750-24 UNJF	.605	.615- .628	0.016	0.044	0.025
04	.250	.4375-20 UNJF	.668	.678- .691	0.016	0.046	0.026
05	.312	.5000-20 UNJF	.730	.740- .753	0.019	0.054	0.031
06	.375	.5625-18 UNJF	.792	.802- .815	0.029	0.082	0.047
08	.500	.7500-16 UNJF	.980	.990-1.003	0.049	0.139	0.080
10	.625	.8750-14 UNJF	1.103	1.113-1.128	0.075	0.213	0.122
12	.750	1.0625-12 UNJ	1.353	1.363-1.380	0.127	0.358	0.205
16	1.000	1.3125-12 UNJ	1.603	1.613-1.630	0.172	0.487	0.279
20	1.250	1.6250-12 UNJ	1.853	1.863-1.880	0.245	0.694	0.397
24	1.500	1.8750-12 UNJ	2.099	2.109-2.135	0.329	0.931	0.533
28	1.750	2.2500-12 UNJ	2.474	2.484-2.510	0.536	1.517	0.868
32	2.000	2.5000-12 UNJ	2.724	2.734-2.760	0.673	1.904	1.090
40	2.500	3.0000-12 UNJ	3.224	3.234-3.260	0.851	2.409	1.379
48	3.000	3.5000-12 UNJ	3.724	3.734-3.760	1.149	3.252	1.861

NOTES:

NOTICE

THIS DOCUMENT REFERENCES A PART WHICH CONTAINS CADMIUM AS A PLATING MATERIAL. CONSULT LOCAL OFFICIALS IF YOU HAVE QUESTIONS CONCERNING CADMIUM'S USE.

/1/ MATERIAL:

- a. DASH AS CODE LETTER - TYPE 4130 STEEL BAR PER AMS-S-6758 OR AMS 6370, OR TYPE 4140 STEEL BAR PER AMS 6382.
- b. CODE LETTER D - TYPE 2024-T6 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6, OR TYPE 2024-T851 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6 OR AMS 4339. /23/
- c. CODE LETTER J - TYPE 304 CORROSION RESISTANT STEEL BAR PER AMS 5639.
- d. CODE LETTER K - TYPE 316 CORROSION RESISTANT STEEL BAR PER AMS 5648.
- e. CODE LETTER R - TYPE 321 CORROSION RESISTANT STEEL BAR PER AMS 5645.
- f. CODE LETTER S - TYPE 347 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS 5646. /23/
- g. CODE LETTER T - TYPE 6AL-4V TITANIUM ALLOY BAR PER AMS 4928. /22/
- h. CODE LETTER W - TYPE 7075-T73 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/9, OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS 4124.

REV. D	/2/ HEAT TREATMENT: a. DASH AS CODE LETTER - SEE HARDNESS REQUIREMENT PER PROCUREMENT SPECIFICATION. b. OTHER MATERIAL CODE LETTERS - NONE. 3. FINISH: a. DASH AS CODE LETTER - CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2, DYE BLACK AND COAT WITH A LIGHT FILM OF OIL PER PROCUREMENT SPECIFICATION. b. MATERIAL CODE LETTER D: 1. ANODIZE PER AMS 2472 OR MIL-A-8625, TYPE II, CLASS 2, DYE BLUE, DUPLEX SEAL PER PROCUREMENT SPECIFICATION. 2. D CODE PARTS TO BE COATED WITH HIGH PURITY ALUMINUM ONLY WILL HAVE THE FINISH CODE LETTER "V" PLACED AFTER THE SIZE CODE IN THE PART NUMBER. THE FINISH WILL BE: COAT WITH HIGH PURITY ALUMINUM PER MIL-DTL-83488, CLASS 3, TYPE II, WITH MAXIMUM COATING THICKNESS OF .0005. GLASS BEAD PEEN PRESSURE SHALL BE 25 psi MAXIMUM. c. MATERIAL CODE LETTER J - PASSIVATE PER AMS 2700, TYPE 6 OR 7. d. MATERIAL CODE LETTER K - PASSIVATE PER AMS 2700, TYPE 6 OR 7. e. MATERIAL CODE LETTER R - PASSIVATE PER AMS 2700, TYPE 6 OR 7. f. MATERIAL CODE LETTER S - PASSIVATE PER AMS 2700, TYPE 6 OR 7. g. MATERIAL CODE LETTER T - ANODIZE PER AMS 2488 OR FLUORIDE PHOSPHATE CONVERSION COAT PER AMS 2486 WITH COLOR PER PROCUREMENT SPECIFICATION. h. MATERIAL CODE LETTER W: 1. ANODIZE PER AMS 2472 OR MIL-A-8625, TYPE II, CLASS 2, DYE BROWN, DUPLEX SEAL PER PROCUREMENT SPECIFICATION. 2. W CODE PARTS TO BE COATED WITH HIGH PURITY ALUMINUM ONLY WILL HAVE THE FINISH CODE LETTER "V" PLACED AFTER THE SIZE CODE IN THE PART NUMBER. THE FINISH WILL BE: COAT WITH HIGH PURITY ALUMINUM PER MIL-DTL-83488, CLASS 3, TYPE II WITH MAXIMUM COATING THICKNESS OF .0005. GLASS BEAD PEEN PRESSURE SHALL BE 25 psi MAXIMUM. /4/ PROCUREMENT SPECIFICATION: AS4841 EXCEPT AS SPECIFIED ON THIS STANDARD. PRODUCT SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED BY AN ACCREDITED MANUFACTURER LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED MANUFACTURER LIST (QML) FOR THIS PRODUCT TYPE. THE QML IS AVAILABLE AT www.eAuditNet.com. /5/ IDENTIFICATION AT LOCATION SHOWN: MARK PER AS478 CLASS C OR D, OR METHOD 7A3, 15A3 OR 15B. a. FOR SIZES 06 AND SMALLER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, LETTERS "AS" AND MATERIAL CODE LETTER. b. FOR SIZES 08 AND LARGER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, BASIC PART NUMBER AND MATERIAL CODE LETTER.				
AS5174	 An SAE International Group		AEROSPACE STANDARD FITTING, UNION AND REDUCER, FLARED	AS5174 SHEET 5 OF 7	REV. D