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REV.
E

AS5174

FEDERAL SUPPLY CLASS
4730

RATIONALE

AS5174E HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

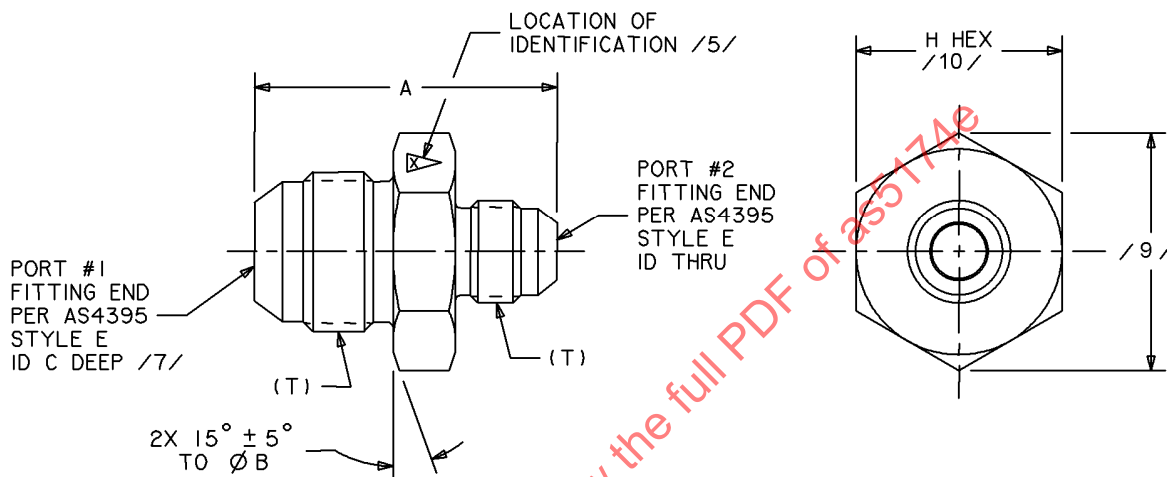
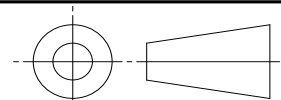


FIGURE 1 - FITTING, UNION AND REDUCER

INACTIVE IN PART /23/

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/AS5174E>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS4841



AEROSPACE STANDARD

FITTING, UNION AND REDUCER, FLARED

AS5174
SHEET 1 OF 7

REV.
E

TABLE 1A - DIMENSION A /12/

PORT #1 /19/ SIZE CODE	A PORT #2 SIZE CODE	A PORT #2 SIZE CODE	A PORT #2 SIZE CODE	A PORT #2 SIZE CODE	A PORT #2 SIZE CODE	A PORT #2 SIZE CODE	A PORT #2 SIZE CODE	A PORT #2 SIZE CODE	A PORT #2 SIZE CODE	A PORT #2 SIZE CODE	A PORT #2 SIZE CODE	A PORT #2 SIZE CODE	A PORT #2 SIZE CODE	A PORT #2 SIZE CODE	A PORT #2 SIZE CODE	A PORT #2 SIZE CODE	A PORT #2 SIZE CODE	A PORT #2 SIZE CODE
02	1.219	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03	1.172	1.219	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04	1.250	1.281	1.250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05	-	-	1.359	1.250	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06	1.297	1.328	1.406	1.406	1.375	-	-	-	-	-	-	-	-	-	-	-	-	-
08	1.422	1.453	1.531	1.531	1.531	1.562	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	1.656	-	1.656	1.750	1.828	-	-	-	-	-	-	-	-	-	-	-
12	-	-	1.797	1.797	1.797	1.891	2.000	2.109	-	-	-	-	-	-	-	-	-	-
16	-	-	1.844	-	-	2.156	2.047	2.156	2.188	-	-	-	-	-	-	-	-	-
20	-	-	1.891	-	-	-	-	2.250	2.250	2.281	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	2.359	2.359	2.406	2.531	-	-	-	-	-	-	-
28	-	-	-	-	-	-	-	-	-	2.812	-	-	-	-	-	-	-	-
32	-	-	-	-	-	-	-	-	-	-	-	3.062	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.875	-	-
48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.062

[illegible]

TABLE 1C - DIMENSIONS AND WEIGHTS /10/

PORT SIZE CODE	(NOMINAL TUBE SIZE)	T THREAD PER AS8879			LB/EA APPROX REF AL	LB/EA APPROX REF STEEL	LB/EA APPROX REF TI
		CLASS 3A	B ±.010	H			
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 AMS6370, OR TYPE 4140 STEEL BAR PER AMS6382.
- 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 AMS4339. /23/
- c. CODE LETTER J - TYPE 304 CORROSION RESISTANT STEEL BAR PER AMS5639.
- d. CODE LETTER K - TYPE 316 CORROSION RESISTANT STEEL BAR PER AMS5648.
- e. CODE LETTER R - TYPE 321 CORROSION RESISTANT STEEL BAR PER AMS5645.
- f. CODE LETTER S - TYPE 347 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS5646. /23/
- g. CODE LETTER T - TYPE 6AL-4V TITANIUM ALLOY BAR PER AMS4928. /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 AMS4124.

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	FITTING, UNION AND REDUCER, FLARED			

/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 AMS2472 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. SEE PROCUREMENT SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

c. MATERIAL CODE LETTER J - PASSIVATE PER AMS2700, TYPE 6 OR 7.

d. MATERIAL CODE LETTER K - PASSIVATE PER AMS2700, TYPE 6 OR 7.

e. MATERIAL CODE LETTER R - PASSIVATE PER AMS2700, TYPE 6 OR 7.

f. MATERIAL CODE LETTER S - PASSIVATE PER AMS2700, TYPE 6 OR 7.

g. MATERIAL CODE LETTER T - ANODIZE PER AMS2488 OR FLUORIDE PHOSPHATE CONVERSION COAT PER AMS2486 WITH COLOR PER PROCUREMENT SPECIFICATION.

h. MATERIAL CODE LETTER W:

1. ANODIZE PER AMS2472 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. SEE PROCUREMENT SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

/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.

	AEROSPACE STANDARD	AS5174 SHEET 5 OF 7	REV. E
	FITTING, UNION AND REDUCER, FLARED		