

REV. C

SAE AS1655

FEDERAL SUPPLY CLASS  
4730

RATIONALE

AS1655C HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

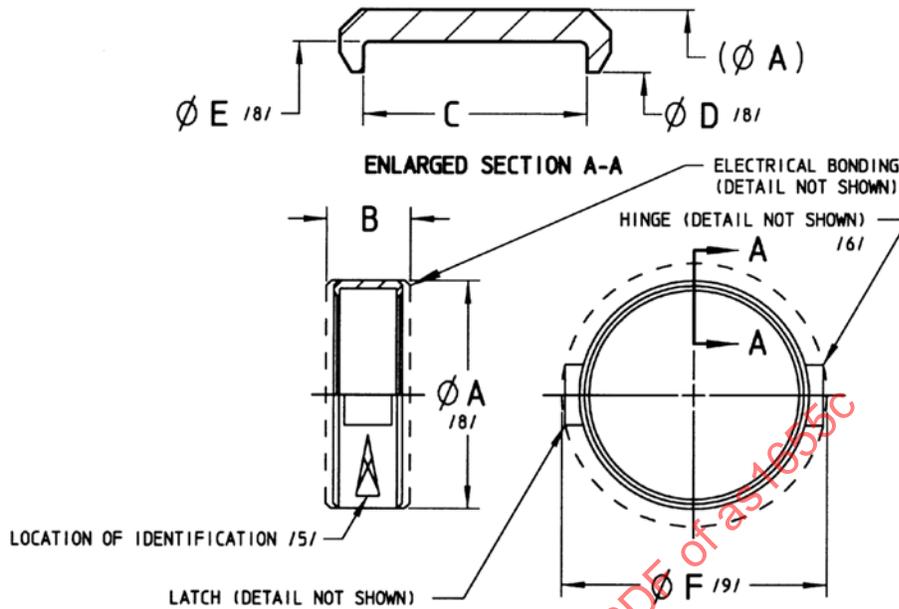


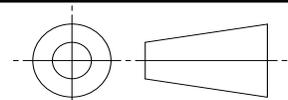
FIGURE 1 - COUPLING BODY

TABLE 1 - DIMENSIONS AND WEIGHTS /6/

BASIC NO. AS1655 /16/ SIZE CODE	NOM TUBE SIZE REF	A MAX /8/	B MAX	C +.003 -.007	D MAX /8/	E MIN /8/	F MAX /9/	LB/EA MAX ALUM	LB/EA MAX GRES	LB/EA MAX TI
08	.500	1.120	.891	.609	.640	.766	1.600	.035	.096	TBD
10	.625	1.200	.891	.609	.765	.891	1.720	.036	.102	TBD
12	.750	1.320	.971	.689	.925	1.071	1.850	.044	.121	TBD
16	1.000	1.540	1.051	.769	1.190	1.347	2.100	.054	.152	TBD
20	1.250	1.800	1.051	.769	1.440	1.597	2.350	.059	.166	TBD
24	1.500	2.080	1.051	.769	1.690	1.867	2.600	.066	.186	TBD
28	1.750	2.300	1.051	.769	1.940	2.118	2.850	.072	.197	TBD
32	2.000	2.580	1.091	.799	2.193	2.391	3.100	.084	.228	TBD
36	2.250	2.920	1.091	.799	2.443	2.640	3.350	.097	.274	TBD
40	2.500	3.080	1.091	.799	2.693	2.891	3.600	.107	.302	TBD
48	3.000	3.740	1.131	.799	3.193	3.391	4.120	.156	.440	TBD
56	3.500	4.240	1.131	.799	3.693	3.905	4.620	.188	.530	TBD
64	4.000	4.840	1.131	.799	4.193	4.411	5.120	.257	.725	TBD

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS1655C>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3A

PROCUREMENT SPECIFICATION: /4/ AS1650

**SAE Aerospace**  
An SAE International Group

**AEROSPACE STANDARD**

COUPLING BODY, THREADLESS - FLEXIBLE,  
FIXED CAVITY, SELF-BONDING

**SAE AS1655**  
SHEET 1 OF 3

**REV. C**

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ISSUED 1992-03 REVISED 2007-07 REAFFIRMED 2013-01

NOTES:

/1/ MATERIAL:

- a. CODE LETTER A - TYPE 2024-T351, T6, T851, T8510 OR T8511 ALUMINUM ALLOY PER AMS-QQ-A-225/6, AMS 4120, AMS 4339, AMS-QQ-A-200/3, WW-T-700/3, ASTM B 211 OR ASTM B 241.
- b. CODE LETTER C -
  - 1. TYPE 17-4PH, CONDITION H1075 STA, CORROSION RESISTANT STEEL PER AMS 5643.
  - 2. TYPE 15-5PH, CONDITION H1150 STA, CORROSION RESISTANT STEEL PER AMS 5659.
  - 3. TYPE 303 SERIES, CONDITION A, CORROSION RESISTANT STEEL PER AMS 5638, AMS 5640 OR ASTM A 582.
  - 4. TYPE 304, CONDITION A, CORROSION RESISTANT STEEL PER AMS 5560, AMS 5639, AMS-QQ-S-763 OR ASTM A 376.
- c. CODE LETTER T -
  - 1. TYPE 6AL-4V, CONDITION A, TITANIUM ALLOY PER AMS 4928, AMS 4967 OR AMS-T-9047.
  - 2. TYPE CP-70, CONDITION A, COMMERCIALLY PURE TITANIUM PER AMS 4921 OR AMS-T-9047.

2. HEAT TREATMENT:

- a. MATERIAL CODE LETTER A - IF THE RAW MATERIAL IS PROCURED IN THE SOLUTION TREATED CONDITION, AGE TO THE FINAL CONDITION PER AMS-H-6088 OR AMS 2770.
- b. MATERIAL CODE LETTER C -
  - 1. TYPE 17-4PH - AGE TO CONDITION H1075 PER MIL-H-6875 OR AMS 2759/3.
  - 2. TYPE 15-5PH - AGE TO CONDITION H1150 PER MIL-H-6875 OR AMS 2759/3.
  - 3. TYPE 303 SERIES OR 304 - NONE.
- c. MATERIAL CODE LETTER T - NONE.

3. FINISH:

- a. MATERIAL CODE LETTER A - ANODIZE PER AMS 2472, CLASS 2, DYE MAGENTA SIMILAR IN COLOR TO FED-STD-595 NO. 17142 OR MIL-A-8625, TYPE II, CLASS 2, DYE MAGENTA SIMILAR IN COLOR TO FED-STD-595 NO. 17142, EXCEPT NICKEL ACETATE OR DUPLEX SEALED ONLY.
- b. MATERIAL CODE LETTER C -
  - 1. TYPE 17-4PH OR 15-5PH - PASSIVATE PER AMS2700, METHOD 1, TYPE 2 OR TYPE 8.
  - 2. TYPE 303 SERIES - PASSIVATE PER AMS 2700, METHOD 1, TYPE 2.
  - 3. TYPE 304 - PASSIVATE PER AMS2700, METHOD 1, TYPE 6 OR TYPE 7.
- c. MATERIAL CODE LETTER T - NONE.

/4/ QUALIFICATION: PARTS SHALL BE QUALIFIED TO THE PROCUREMENT SPECIFICATION AS A COMPLETE ASSEMBLY. USERS OF THIS STANDARD ARE ADVISED TO CONTROL SOURCE APPROVAL(S) BY STANDARD PAGE SUPPLEMENT SHEETS OR SIMILAR MEANS.

/5/ IDENTIFICATION: MARK PER AS478-30 USING .062 in OR LARGER CHARACTERS. MARK AS A MINIMUM THE MANUFACTURER'S NAME, TRADEMARK AND/OR CAGE CODE, COMPLETE "AS" NUMBER AND DATE OF MANUFACTURE IN QUARTERS (1Q98 = FIRST QUARTER 1998). SIZES 12 AND SMALLER MAY BE INDIVIDUALLY BAGGED WITH A TAG PER AS478-35D CONTAINING THE PREVIOUS INFORMATION.

 An SAE International Group	<b>AEROSPACE STANDARD</b>	<b>SAE AS1655</b> SHEET 2 OF 3	<b>REV.</b> <b>C</b>
	COUPLING BODY, THREADLESS - FLEXIBLE, FIXED CAVITY, SELF-BONDING		