

RATIONALE

MA2111C HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

REV.  
C

MA2111

IDENTIFICATION  
LOCATION OPTIONAL

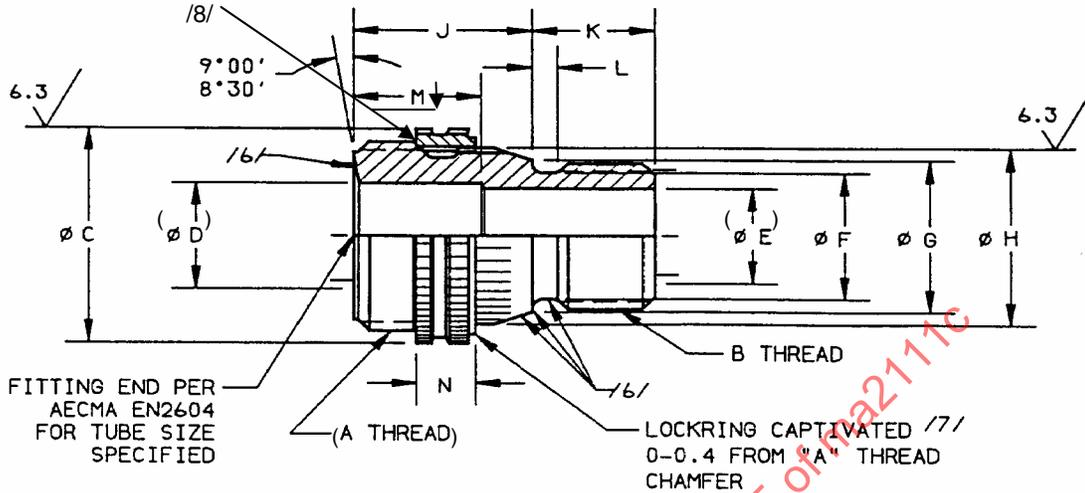


FIGURE 1 - ADAPTER, ASSEMBLY

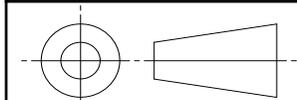
TABLE 1 - DIMENSIONS

TABLE 1A - A THROUGH G

BASIC NO. MA2111 /17/ SIZE CODE	(NOMINAL TUBE SIZE)	A THREAD PER MA1370	B THREAD PER MA1370	C ±0.09	D REF	E +0.20/0	F +0.15/-0.05	G MIN
05	5.0	MJ10 x 1-4g6g	MJ6 x 1-4h6h	12.90	4.20- 4.40	2.50	4.50	7.10
06	6.0	MJ12 x 1-25-4g6g	MJ8 x 1-4h6h	14.75	5.00- 5.20	4.40	6.50	9.05
08	8.0	MJ14 x 1.5-4g6g	MJ10 x 1-4h6h	17.80	6.70- 6.90	6.10	8.50	11.06
10	10.0	MJ16 x 1.5-4g6g	MJ12 x 1.25-4h6h	19.50	8.70- 8.90	7.70	10.20	12.78
12	12.0	MJ18 x 1.5-4g6g	MJ14 x 1.5-4h6h	21.00	10.60-10.80	9.00	11.90	14.38
14	14.0	MJ20 x 1.5-4g6g	MJ16 x 1.5-4h6h	22.60	11.45-11.65	10.70	13.90	16.36
16	16.0	MJ22 x 1.5-4g6g	MJ18 x 1.5-4h6h	26.40	13.30-13.60	12.50	15.90	18.37
18	18.0	MJ24 x 1.5-4g6g	MJ20 x 1.5-4h6h	28.00	15.30-15.60	14.20	17.90	20.37
20	20.0	MJ27 x 1.5-4g6g	MJ22 x 1.5-4h6h	30.20	18.00-18.30	15.90	19.90	22.38
22	22.0	MJ30 x 1.5-4g6g	MJ24 x 1.5-4h6h	33.70	20.80-21.10	17.65	21.90	24.35
25	25.0	MJ33 x 1.5-4g6g	MJ27 x 1.5-4h6h	37.00	22.40-22.70	20.20	24.90	27.35
28	28.0	MJ36 x 1.5-4g6g	MJ30 x 1.5-4h6h	40.95	25.60-25.90	22.80	27.90	30.37
32	32.0	MJ39 x 1.5-4g6g	MJ33 x 1.5-4h6h	43.00	28.30-28.60	25.40	30.90	33.37

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on this Technical Report, please visit  
<http://www.sae.org/technical/standards/MA2111C>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B /5/

PROCUREMENT SPECIFICATION: /4/ MA2500 (ISO 7169)



**AEROSPACE STANDARD**

FITTING ASSEMBLY, ADAPTER RING LOCKED PORT  
CONNECTION TO 8°30' BEAM SEAL  
28,000 KPA, METRIC

MA2111  
SHEET 1 OF 3

REV.  
C

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TABLE 1B - H THROUGH N AND WEIGHTS

BASIC NO. MA2111 /17/ SIZE CODE	H REF	J ±0.20	K +0.50/0	L +0.15/-0.10	M ±0.4	N ±0.2	WEIGHT KG/EA MAX
05	9.37	16.35	7.95	3.00	11.0	5.3	0.007
06	11.53	18.85	8.60	3.00	13.0	6.1	0.009
08	13.87	21.60	9.30	3.00	15.0	7.0	0.015
10	15.37	21.60	10.00	3.00	15.0	7.0	0.018
12	17.12	21.65	10.65	3.00	15.0	7.0	0.022
14	18.77	21.85	11.30	3.00	15.0	7.0	0.026
16	20.93	21.85	12.00	3.00	15.0	7.0	0.033
18	23.85	22.65	12.70	3.00	15.0	7.0	0.038
20	24.92	23.25	13.35	3.00	15.5	7.0	0.044
22	27.41	23.25	14.00	3.00	15.5	7.0	0.050
25	31.47	23.65	15.05	3.00	15.5	7.0	0.065
28	33.60	23.65	16.05	3.00	15.5	7.0	0.077
32	37.57	23.65	17.05	3.00	15.5	7.0	0.086

NOTES:

1. MATERIAL:

- a. FITTING: 6AL-4V TITANIUM ALLOY PER AMS 4928, AMS 4965, OR AMS 4967.
- b. LOCKRING: A286 CORROSION RESISTANT STEEL PER AMS 5731, AMS 5732, AMS 5734 OR AMS 5737.

2. HEAT TREATMENT:

- a. FITTING: 900 MPa UTS MIN
- b. LOCKRING: 34-40 HRC

3. FINISH:

- a. FITTING: ANODIC TREATMENT PER AMS 2488 TYPE 2 ON ALL SURFACES AND SOLID FILM LUBE PER AS5272, TYPE I ON ALL SURFACES EXCEPT IN THE FLOW HOLE.

ALTERNATE FINISH: SOLID FILM LUBE PER AS5272, TYPE I ON ALL SURFACES EXCEPT IN THE FLOW HOLE.

- b. LOCKRING: PASSIVATE PER AMS 2700.

/4/ PROCUREMENT SPECIFICATION: MA2005 (ISO 7169) EXCEPT AS SPECIFIED ON THIS STANDARD. PRODUCT SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED BY AND ACCREDITED MANUFACTURER LISTED IN PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED MANUFACTURER LIST (QML) FOR THIS TYPE PRODUCT. THE QML IS AVAILABLE AT [www.eauditnet.com](http://www.eauditnet.com).

/5/ AECMA INTEREST: FUTURE REVISIONS TO THIS STANDARD SHALL BE COORDINATED WITH AECMA C4 COMMITTEE. AECMA IS ASSOCIATION EUROPEENNE DES CONSTRUCTEURS DE MATERIEL AEROSPATIAL (PARIS, FRANCE).

/6/ SEALING SURFACE: NO VISIBLE DEFECTS. TO BE PROTECTED FOR SHIPMENT.

/7/ LOCKRING RETAINED ON FITTING BY CONTROLLED INTERFERENCE FIT. LOCKRING EXTERNAL SERRATION DELETED ONE TOOTH FOR METRIC IDENTIFICATION PURPOSE.

	<b>AEROSPACE STANDARD</b>	<b>MA2111</b> SHEET 2 OF 3	<b>REV.</b> <b>C</b>
	FITTING ASSEMBLY, ADAPTER RING LOCKED PORT CONNECTION TO 8°30' BEAM SEAL 28,000 KPA, METRIC		