

REV. B

SAE MA2119

FEDERAL SUPPLY CLASS  
4730

RATIONALE

HARMONIZE STANDARD TO AECMA EN3248 EQUIVALENT STANDARD RELATED TO FINISH OF THE FITTING BODY;  
ADD AMS5732, AMS5737 AND AMS5853 OPTION FOR A286 LOCKRING MATERIAL AND OTHER GENERAL UPDATES.

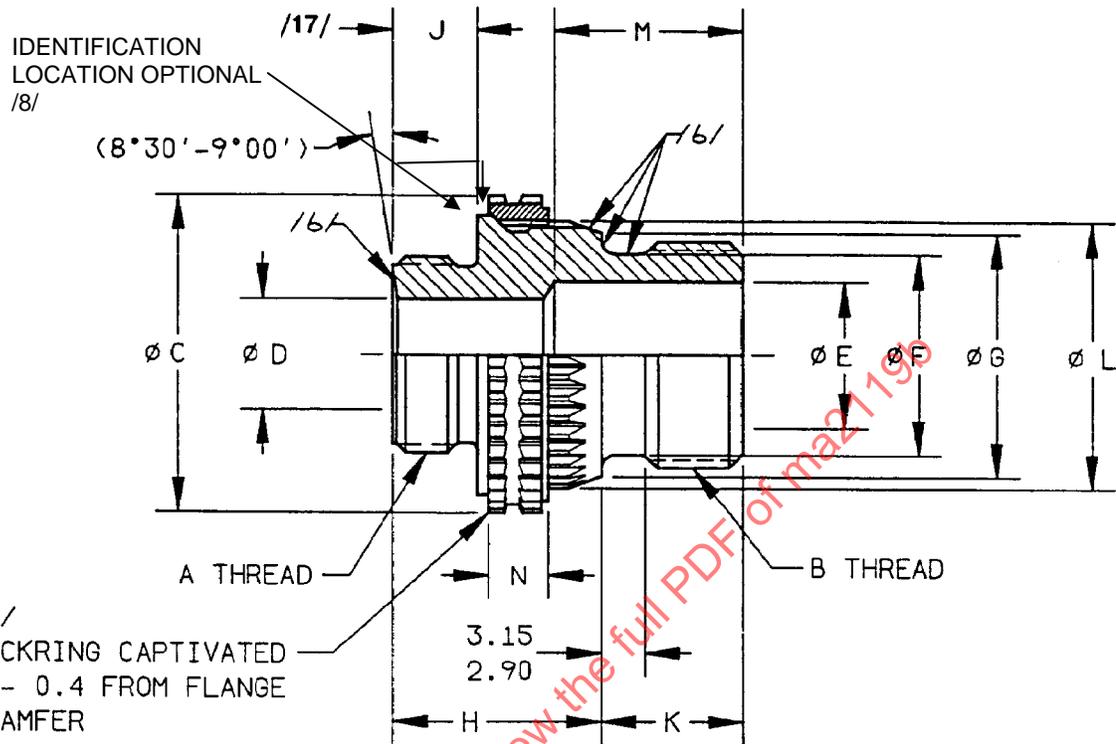


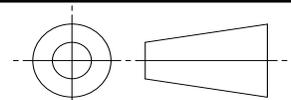
FIGURE 1 - ADAPTER, ASSEMBLY

TABLE 1A DIMENSIONS A THROUGH G

BASIC NO. MA2119 /18/ SIZE CODE	A THREAD MA1370 (ISO 5855)	B THREAD MA1370 (ISO 5855)	C ±0.09	(D)	E +0.20/0	F +0.15/-0.05	G MIN
08-06	MJ12 x 1.25-4g6g	MJ10 x 1-4h6h	17.80	5.00- 5.20	6.10	8.50	11.06
10-06	MJ12 x 1.25-4g6g	MJ12 x 1.25-4h6h	19.50	5.00- 5.20	7.70	10.20	12.78
10-08	MJ14 x 1.5-4g6g	MJ12 x 1.25-4h6h	19.50	6.70- 6.90	7.70	10.20	12.78
12-06	MJ12 x 1.25-4g6g	MJ14 x 1.5-4h6h	21.00	5.00- 5.20	9.00	11.90	14.38
12-08	MJ14 x 1.5-4g6g	MJ14 x 1.5-4h6h	21.00	6.70- 6.90	9.00	11.90	14.38
12-10	MJ16 x 1.5-4g6g	MJ14 x 1.5-4h6h	21.00	8.70- 8.90	9.00	11.90	14.38
14-06	MJ12 x 1.25-4g6g	MJ16 x 1.5-4h6h	22.60	5.00- 5.20	10.70	13.90	16.36
14-08	MJ14 x 1.5-4g6g	MJ16 x 1.5-4h6h	22.60	6.70- 6.90	10.70	13.90	16.36
14-10	MJ16 x 1.5-4g6g	MJ16 x 1.5-4h6h	22.60	8.70- 8.90	10.70	13.90	16.36
14-12	MJ18 x 1.5-4g6g	MJ16 x 1.5-4h6h	22.60	10.60-10.80	10.70	13.90	16.36

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/MA2119B>

THIRD ANGLE PROJECTION



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

PROCUREMENT SPECIFICATION: /4/ MA2005 (ISO 7169)

**SAE Aerospace**  
An SAE International Group

**METRIC AEROSPACE STANDARD**

ADAPTER, ASSEMBLY - PORT CONNECTION  
RING LOCKED TO 60° FLARELESS TUBE END,  
METRIC

**SAE MA2119**  
SHEET 1 OF 3

**REV. B**

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ISSUED 1992-06 REAFFIRMED 2004-07 REVISED 2013-04

TABLE 1B - DIMENSIONS H THROUGH N

BASIC NO. MA2119 /18/ SIZE CODE	H ±0.2	J ±0.15	K +0.50/0	(L)	M ±0.40	N ±0.20
08-06	25.2	8.75	9.30	13.87	16.15	7.00
10-06	25.2	8.75	10.00	15.37	16.70	7.00
10-08	27.0	10.55	10.00	15.37	16.70	7.00
12-06	25.2	8.75	10.65	17.12	17.45	7.00
12-08	27.0	10.55	10.65	17.12	17.45	7.00
12-10	27.0	10.55	10.65	17.12	17.45	7.00
14-06	25.2	8.75	11.30	18.77	17.90	7.00
14-08	27.0	10.55	11.30	18.77	17.90	7.00
14-10	27.0	10.55	11.30	18.77	17.90	7.00
14-12	27.0	10.55	11.30	18.77	17.90	7.00

## NOTES:

## 1. MATERIAL

- a. FITTING: 6Al-4V TITANIUM ALLOY PER AMS4928, AMS4965, OR AMS4967.
- b. LOCKRING: A286 CORROSION RESISTANT STEEL PER AMS5731, AMS5732, AMS5734, AMS5737, OR AMS5853.

## 2. HEAT TREATMENT:

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

## 3. FINISH:

- a. FITTING: ANODIC TREATMENT PER AMS2488, 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 AMS2700, TYPE 2.

/4/ PROCUREMENT SPECIFICATION: MA2005 (ISO 7169) EXCEPT AS SPECIFIED ON THIS STANDARD. PRODUCT SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED BY AN 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.

## 8. IDENTIFICATION:

- a. MARK AT LOCATION(S) SHOWN PER AS478 METHOD 2 OR 15, MANUFACTURER'S NAME, TRADEMARK, OR CAGE CODE.
- b. MARK PER AS478 CLASS 35D, MANUFACTURER'S NAME, TRADEMARK OR CAGE CODE AND PART NUMBER.

 An SAE International Group	<b>METRIC AEROSPACE STANDARD</b>	<b>SAE MA2119</b> SHEET 2 OF 3	<b>REV.</b> <b>B</b>
	ADAPTER, ASSEMBLY - PORT CONNECTION RING LOCKED TO 60° FLARELESS TUBE END, METRIC		