

MA2119

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user." SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

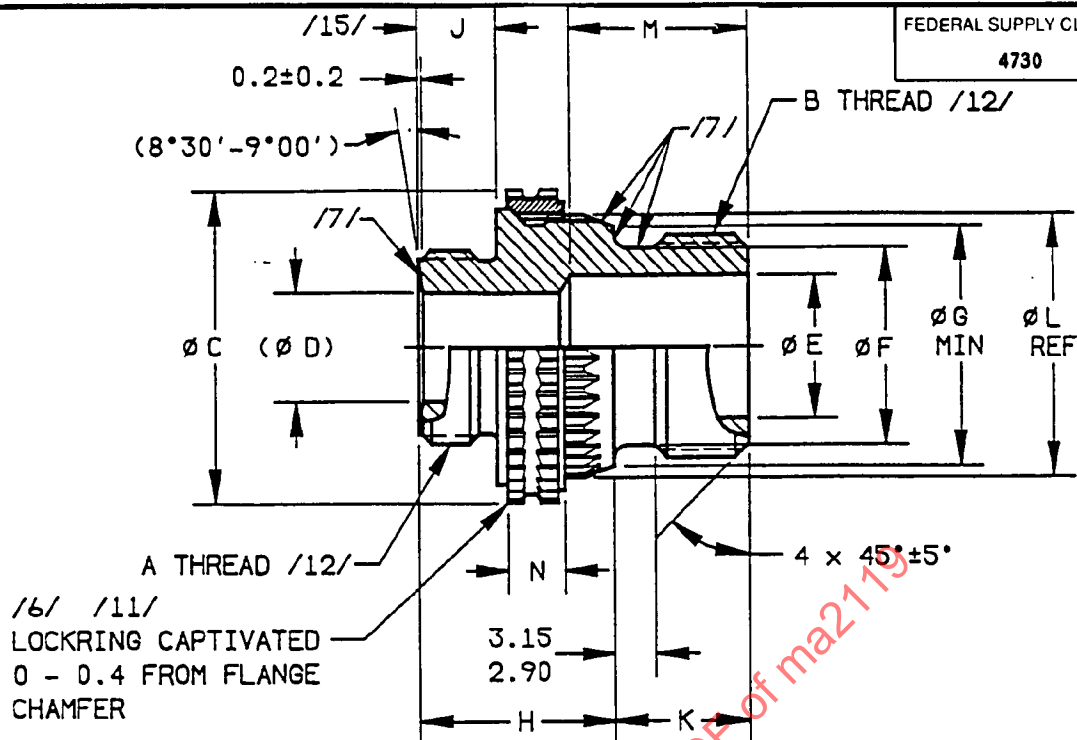
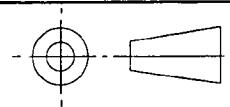


FIGURE 1

TABLE 1

MA IDENTIFICATION NUMBER /19/	A THREAD MA1370 (ISO 5855) 4g6g	B THREAD MA1370 (ISO 5855) 4h6h	C ±0.09	D REF	E +0.20/0	F +0.15/-0.05	G
MA2119-08-06	MJ12 X 1.25	MJ10 X 1	17.80	5.00- 5.20	6.10	8.50	11.06
MA2119-10-06	MJ12 X 1.25	MJ12 X 1.25	19.50	5.00- 5.20	7.70	10.20	12.78
MA2119-10-08	MJ14 X 1.5	MJ12 X 1.25	19.50	6.70- 6.90	7.70	10.20	12.78
MA2119-12-06	MJ12 X 1.25	MJ14 X 1.5	21.00	5.00- 5.20	9.00	11.90	14.35
MA2119-12-08	MJ14 X 1.5	MJ14 X 1.5	21.00	6.70- 6.90	9.00	11.90	14.38
MA2119-12-10	MJ16 X 1.5	MJ14 X 1.5	21.00	8.70- 8.90	9.00	11.90	14.38
MA2119-14-06	MJ12 X 1.25	MJ16 X 1.5	22.60	5.00- 5.20	10.70	13.90	16.36
MA2119-14-08	MJ14 X 1.5	MJ16 X 1.5	22.60	6.70- 6.90	10.70	13.90	16.36
MA2119-14-10	MJ16 X 1.5	MJ16 X 1.5	22.60	8.70- 8.90	10.70	13.90	16.36
MA2119-14-12	MJ18 X 1.5	MJ16 X 1.5	22.60	10.60-10.80	10.70	13.90	16.36

THIRD ANGLE PROJECTION



CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: MA2005 (ISO 7169)

SAE The Engineering Society
For Advancing Mobility
Land Sea Air and Space
INTERNATIONAL

400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD

ADAPTER-REDUCER, PORT CONNECTION
RING LOCKED TO BEAM SEAL, METRIC
28 000 kPa

MA2119

SHEET 1 OF 3

TABLE 2

MA IDENTIFICATION NUMBER	H ±0.2	J ±0.15	K +0.50/0	L	M ±0.40	N ±0.20	O-RING SIZE /B/ REF
MA2119-08-06	25.2	8.75	9.30	13.87	16.15	7.00	A0080
MA2119-10-06	25.2	8.75	10.00	15.37	16.70	7.00	A0095
MA2119-10-08	27.0	10.55	10.00	15.37	16.70	7.00	A0095
MA2119-12-06	25.2	8.75	10.65	17.12	17.45	7.00	A0112
MA2119-12-08	27.0	10.55	10.65	17.12	17.45	7.00	A0112
MA2119-12-10	27.0	10.55	10.65	17.12	17.45	7.00	A0112
MA2119-14-06	25.2	8.75	11.30	18.77	17.90	7.00	A0132
MA2119-14-08	27.0	10.55	11.30	18.77	17.90	7.00	A0132
MA2119-14-10	27.0	10.55	11.30	18.77	17.90	7.00	A0132
MA2119-14-12	27.0	10.55	11.30	18.77	17.90	7.00	A0132

NOTES:

1. MATERIALS:
 - a. FITTING: 6Al-4V TITANIUM PER AMS 4928 OR AMS 4967.
 - b. LOCKRING: A286 CRES PER AMS 5731 OR AMS 5734.
2. FINISH:
 - a. FITTING: DRY FILM LUBRICANT PER MIL-L-46010, TYPE I ON ALL SURFACES EXCEPT NONE IN FLOW HOLE. FULL BUILDUP ON BEAM SEAL SEALING SURFACE AND ON SERRATED COLLAR FLANGE INCLUDING CHAMFERED SEALING SURFACE.
 - b. LOCKRING: PASSIVATE PER QQ-P-35.
3. HEAT TREATMENT: TITANIUM IS IN ANNEALED CONDITION, 900 MPa UTS MIN. CRES, A286 IS HEAT TREATED TO 34-40 HRC.
4. THIS PART SHALL BE QUALIFIED IN A COMPLETE ASSEMBLY IN ACCORDANCE WITH PROCUREMENT SPECIFICATION AND MA2005 (ISO 7169). USERS OF THIS STANDARD ARE ADVISED TO CONTROL SOURCE APPROVAL(S) BY STANDARD PAGE SUPPLEMENT SHEET OR SIMILAR MEANS.
5. THIS PART IS PRIMARILY DESIGNED FOR USE IN 28 000 kPa HYDRAULIC WORKING PRESSURE SYSTEMS COMPATIBLE WITH TITANIUM.
- /6/ LOCKRING RETAINED ON ADAPTER BY CONTROLLED INTERFERENCE FIT.
- /7/ SEALING SURFACE: NO VISIBLE DEFECTS. TO BE PROTECTED FOR SHIPMENT.
- /8/ THIS PART IS USED IN CONJUNCTION WITH AN O-RING. O-RING PER MA2010 (ISO 3601/1 SERIES A).
9. ALL INTERIOR PACKAGES SHALL BE MARKED MA2119-()-() IDENTIFICATION NUMBER PER MIL-STD-129 AND SHALL ALSO BE DURABLY MARKED WITH THE COMPLETE SUPPLIER PART NUMBER.
10. ADAPTERS TO BE INSTALLED INTO BOSS CAVITIES PER MA2110.
- /11/ LOCKRING EXTERNAL SERRATION DELETED ONE TOOTH FOR METRIC IDENTIFICATION PURPOSES.
- /12/ THREAD GAGING PER MA1566.
13. SURFACE ROUGHNESS: MACHINED SURFACES SHALL BE 3.2 μm Ra, SERRATION 6.3 μm Ra, SEALING SURFACES 1.6 μm Ra PER ANSI/ASME B46.1.
14. BREAK EDGES 0.1-0.4 UNLESS OTHERWISE SPECIFIED.
- /15/ ADAPTER END IN ACCORDANCE WITH AECMA STANDARD EN2604.
16. DIMENSIONING AND TOLERANCING: ANSI Y14.5M-1982.