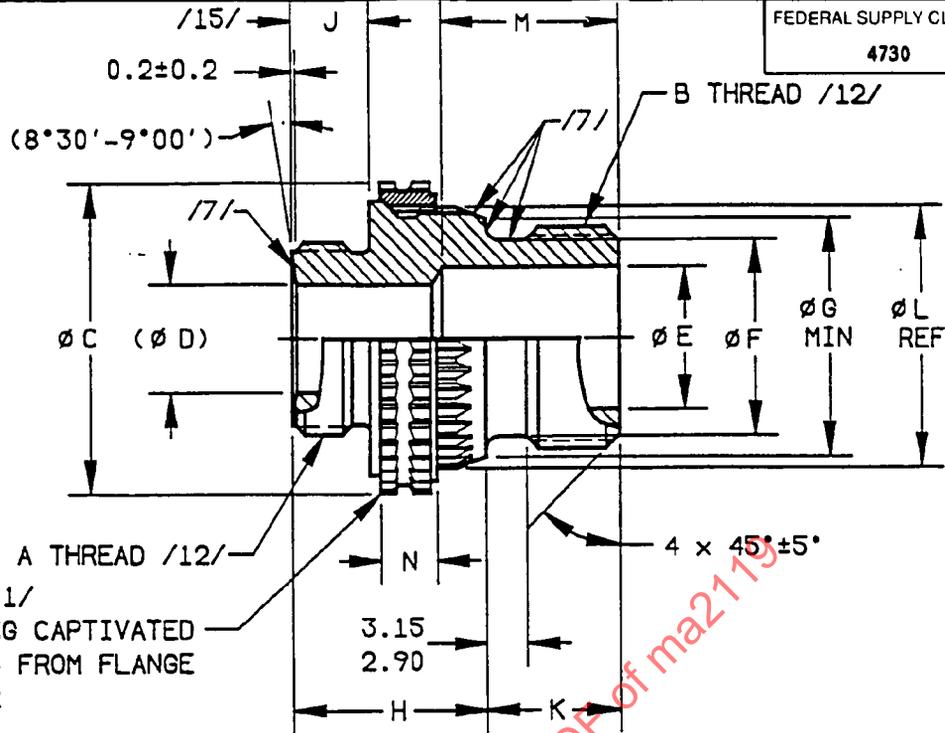


**MA2119**

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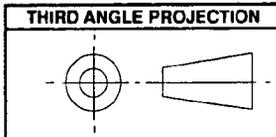


FEDERAL SUPPLY CLASS  
4730

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



CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: MA2005 (ISO 7169)

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

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

**MA2119**

SHEET 1 OF 3

400 Commonwealth Drive, Warrendale, PA 15096-0001

ISSUED 1992-06-22 REVISED

TABLE 2

MA IDENTIFICATION NUMBER	H	J	K	L	M	N	O-RING SIZE /B/ REF
	±0.2	±0.15	+0.50/0		±0.40	±0.20	
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: 6A1-4V 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  $\mu\text{m}$  Ra, SERRATION 6.3  $\mu\text{m}$  Ra, SEALING SURFACES 1.6  $\mu\text{m}$  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-19B2.