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REV.
B

MA2118

FEDERAL SUPPLY CLASS
4730

RATIONALE

MA2118B HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

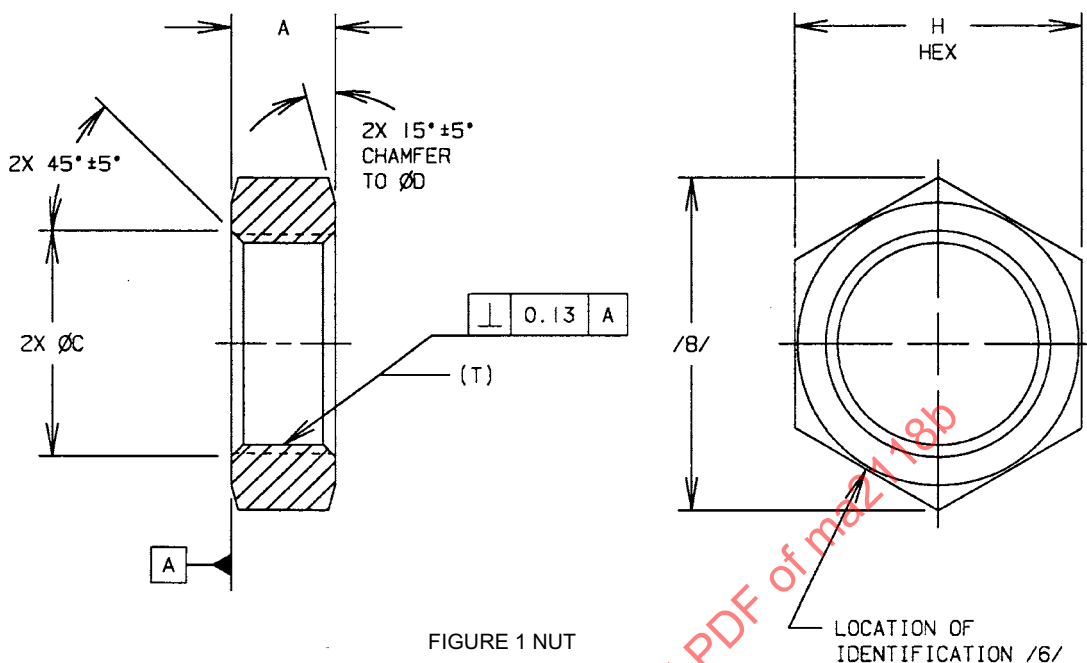


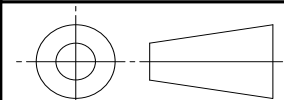
FIGURE 1 NUT

TABLE 1 - DIMENSIONS AND WEIGHTS

BASIC NO. MA2118 /16/ SIZE CODE	(NOMINAL TUBE SIZE DN) /1/	T THREAD PER MA1370 (ISO 5855-3) 4H5H	A	C	D ±0.25	H	Kg/100 MAX ALUM	Kg/100 MAX CRES	Kg/100 MAX TI
05	5	MJ 10 X 1	7.5	10.4-10.9	13.35	13.60-14.06	0.232	0.665	0.367
06	6	MJ 12 X 1.25	7.5	12.4-12.9	16.35	16.6 -17.1	0.349	1.00	0.552
08	8	MJ 14 X 1.5	8.5	14.4-14.9	18.35	18.6 -19.1	0.466	1.34	0.738
10	10	MJ 16 X 1.5	8.5	16.4-16.9	21.35	21.6 -22.1	0.629	1.80	0.995
12	12	MJ 18 X 1.5	8.5	18.4-18.9	23.35	23.6 -24.1	0.705	2.02	1.12
14	14	MJ 20 X 1.5	8.5	20.4-20.9	26.35	26.6 -27.1	0.903	2.59	1.43
16	16	MJ 22 X 1.5	8.5	22.4-22.9	29.35	29.6 -30.1	1.13	3.23	1.78
20	20	MJ 27 X 1.5	8.5	27.4-27.9	35.05	35.3 -36.2	1.54	4.41	2.43
25	25	MJ 33 X 1.5	8.5	33.4-33.9	40.05	40.3 -41.2	2.07	5.94	3.28
32	32	MJ 42 X 2	10.0	42.4-42.9	49.05	49.3 -50.2	2.65	7.59	4.19
40	40	MJ 50 X 2	10.0	50.4-50.9	58.95	59.2 -60.3	3.85	11.0	6.09

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/MA2118B>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: NONE /5/



AEROSPACE STANDARD

(R) NUT, BULKHEAD,
FITTING, METRIC

MA2118
SHEET 1 OF 3

REV.
B

NOTES:

- /1/ DN = NOMINAL TUBE OUTSIDE DIAMETER.
- /2/ MATERIAL:
- a. CODE LETTER D - TYPE 2024-T6 OR T851 ALUMINUM ALLOY BAR PER AMS 4112 OR QQ-A-225/6.
 - b. CODE LETTER J - TYPE 304 CORROSION RESISTANT STEEL BAR PER AMS 5639 OR QQ-S-763.
 - c. CODE LETTER K - TYPE 316 CORROSION RESISTANT STEEL BAR PER AMS 5648 OR QQ-S-763.
 - d. CODE LETTER T - TYPE 6AL-4V TITANIUM ALLOY BAR PER AMS 4928.
 - e. CODE LETTER W - TYPE 7075-T73 OR T7351 ALUMINUM ALLOY BAR PER AMS 4124 OR QQ-A-225/9.
3. HEAT TREATMENT: NONE.
4. FINISH
- a. MATERIAL CODE LETTER D - ANODIZE PER MIL-A-8625, TYPE II, CLASS 2, DYED GREEN SIMILAR TO COLOR NO. 14187 OF FED-STD-595 AND DUPLEX SEALED.
 - b. MATERIAL CODE LETTERS J AND K - PASSIVATE PER QQ-P-35, TYPE VI OR VII.
 - c. MATERIAL CODE LETTER T - ANODIZE PER AMS 2488 OR FLUORIDE PHOSPHATE CONVERSION COAT PER AMS 2486.
 - d. MATERIAL CODE LETTER W - ANODIZE PER MIL-A-8625, TYPE II, CLASS 2, DYED BROWN SIMILAR TO COLOR NO. 10080 OF FED-STD-595 AND DUPLEX SEALED.
- /5/ THIS NUT IS INTENDED FOR USE WITH BULKHEAD FITTING ENDS ON FITTINGS PER MA2005 (ISO 7169).
- /6/ IDENTIFICATION AT LOCATION SHOWN: MARK PER AS478 CLASS C OR METHOD 7A3, 15A3, OR 15B.
- a. FOR SIZES DN10 AND SMALLER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK AND MATERIAL CODE LETTER.
 - b. FOR SIZES DN12 AND LARGER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, BASIC PART NUMBER AND MATERIAL CODE LETTER.
7. THIS PART IS DESIGNED FOR USE IN SYSTEMS AT TYPE II TEMPERATURE (-55 TO 135 °C).
- /8/ HEX CORNERS MAY BE ROUNDED PER ARP1942.
9. THE CHANGE BAR (I) LOCATED IN THE LEFT MARGIN IS FOR THE CONVENIENCE OF THE USER IN LOCATING AREAS WHERE TECHNICAL REVISIONS, NOT EDITORIAL CHANGES, HAVE BEEN MADE TO THE PREVIOUS ISSUE OF THIS DOCUMENT. AN (R) SYMBOL TO THE LEFT OF THE DOCUMENT TITLE INDICATES A COMPLETE REVISION OF THE DOCUMENT.
10. INVENTORIED PARTS CONFORMING TO THE PREVIOUS "LETTER CHANGE" MAY BE USED TO DEPLETION.
11. INTERPRETATION OF DRAWING PER MAP4296.
12. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M; REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 3.2 µm Ra. HEX FLATS MAY BE 12.5 µm Ra.
13. BREAK EDGES 0.1 TO 0.4 UNLESS OTHERWISE SPECIFIED.
14. DIMENSIONING AND TOLERANCING: ASME Y14.5M-1994.

	AEROSPACE STANDARD		MA2118 SHEET 2 OF 3	REV. B
	(R) NUT, BULKHEAD, FITTING, METRIC			