

REV.
B

MA2047

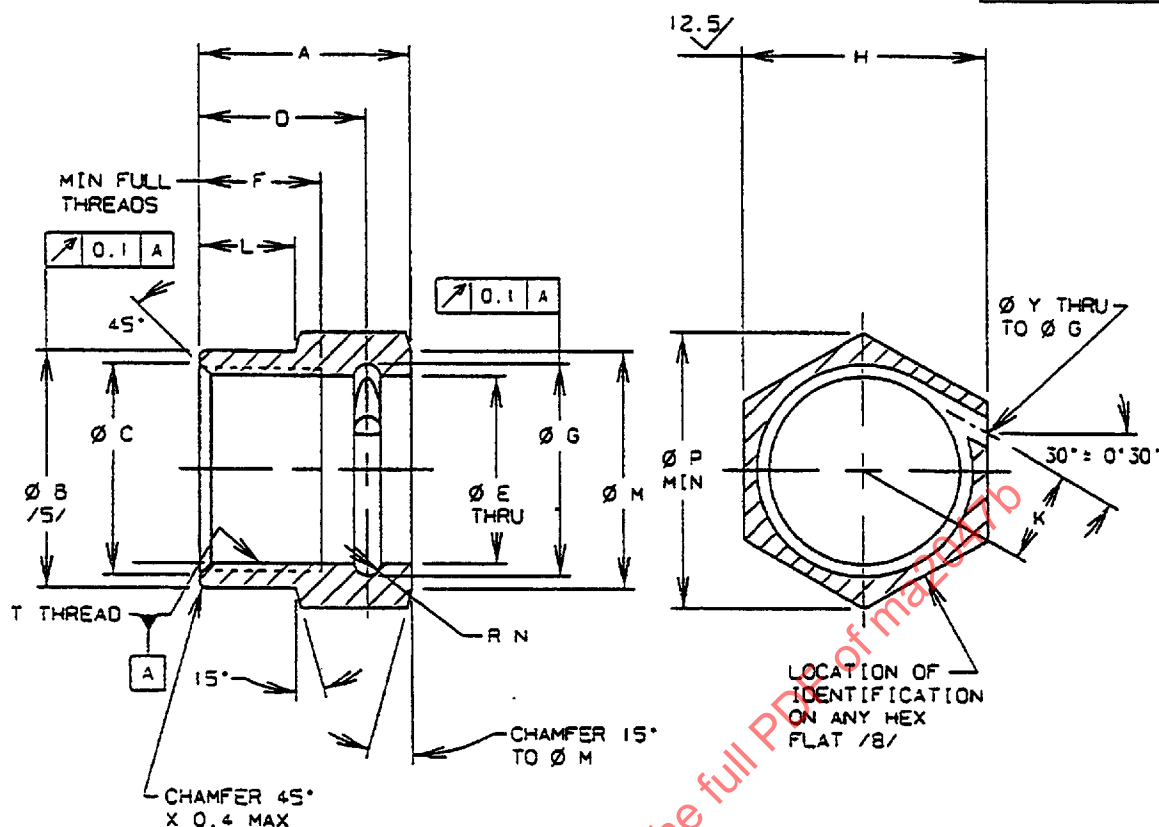
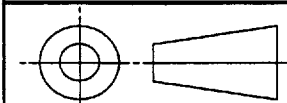
FEDERAL SUPPLY CLASS
4730

FIGURE 1 - NUT

(R) TABLE 1A - DIMENSIONS

BASIC NO. MA2047 /17/ SIZE CODE	(NOMINAL TUBE SIZE DN) /3/	T PER MA1370 4H 5H /6/	A ±0.3	B ±0.06	C	D
05	5	MJ10 X 1	15.5	—	10.4-10.9	12.0
06	6	MJ12 X 1.25	16.5	—	12.4-12.9	13.0
08	8	MJ14 X 1.5	17.5	16.06	14.4-14.9	14.0
10	10	MJ16 X 1.5	19.0	18.06	16.4-16.9	15.0
12	12	MJ18 X 1.5	20.5	21.06	18.4-18.9	15.7
14	14	MJ20 X 1.5	20.5	23.06	20.4-20.9	15.7
16	16	MJ22 X 1.5	21.5	25.06	22.4-22.9	16.2
20	20	MJ27 X 1.5	22.0	31.06	27.4-27.9	16.7
25	25	MJ33 X 1.5	25.0	38.06	33.4-33.9	18.2
32	32	MJ42 X 2	27.2	45.06	42.4-42.9	20.7
40	40	MJ50 X 2	28.4	57.06	50.4-50.9	21.4

THIRD ANGLE PROJECTION



CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: /7/ 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

NUT, RETAINED, FLARELESS,
METRIC

MA2047

SHEET 1 OF 3

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(R) TABLE 1B - DIMENSIONS

BASIC NO. MA2047 /17/ SIZE CODE	E /4/	F	G ±0.05	H	K	L
05	9.026- 9.216	9.1	11.00	11.60-12.06	4.2- 4.3	—
06	10.782-10.994	9.9	12.75	13.60-14.06	5.1- 5.2	—
08	12.539-12.775	10.7	14.50	16.60-17.10	6.0- 6.1	10.0
10	14.539-14.775	11.7	16.50	18.60-19.10	7.0- 7.1	10.0
12	16.539-16.775	12.1	19.00	21.60-22.10	8.0- 8.1	10.0
14	18.539-18.775	12.0	21.00	23.60-24.10	9.0- 9.1	10.0
16	20.539-20.775	12.1	23.00	26.60-27.10	10.0-10.1	10.0
20	25.539-25.775	12.7	28.45	31.60-32.10	12.4-12.5	11.0
25	31.539-31.775	13.7	34.45	40.60-41.20	15.4-15.5	11.0
32	40.051-40.351	14.4	42.95	45.60-46.20	19.7-19.8	11.0
40	48.051-48.351	13.6	51.45	59.60-60.30	23.7-23.8	11.0

(R) TABLE 1C - DIMENSIONS AND WEIGHTS

BASIC NO. MA2047 /17/ SIZE CODE	M ±0.2	N ±0.03	P	Y	KG/100 MAX ALUM	KG/100 MAX CRES	KG/100 MAX TI
05	11.4	1.05	13.62	2.2-2.3	0.303	0.840	0.480
06	13.4	1.05	16.17	2.2-2.3	0.410	1.14	0.650
08	16.4	1.05	19.63	2.2-2.3	0.625	1.73	0.990
10	18.4	1.05	21.94	2.2-2.3	0.804	2.23	1.27
12	21.4	1.35	25.40	2.7-2.8	1.08	3.00	1.71
14	23.4	1.35	27.71	2.7-2.8	1.20	3.33	1.90
16	26.4	1.35	31.18	2.7-2.8	1.58	4.38	2.50
20	31.4	1.60	36.95	3.2-3.3	2.42	6.70	3.83
25	40.4	1.60	47.34	3.2-3.3	4.20	11.6	6.65
32	45.4	1.60	53.12	3.2-3.3	4.34	12.0	6.88
40	59.4	1.85	69.28	3.7-3.8	9.46	26.2	15.0

NOTES:

/1/ MATERIAL:

- (R) a. NO CODE LETTER (USE HYPHEN) - TYPE 4130 STEEL BAR PER MIL-S-6758.
 b. CODE LETTER D - TYPE 2024-T6 ALUMINUM ALLOY BAR PER AMS 4112 OR TYPE 2024-T6 OR 2024-T851 ALUMINUM ALLOY BAR PER QQ-A-225/6.
 c. CODE LETTER J - TYPE 304 CORROSION RESISTANT STEEL BAR PER QQ-S-763, CLASS 304 OR AMS 5639.
 d. CODE LETTER K - TYPE 316 CORROSION RESISTANT STEEL BAR PER QQ-S-763, CLASS 316 OR AMS 5648.
 e. CODE LETTER R - TYPE 321 CORROSION RESISTANT STEEL BAR PER QQ-S-763, CLASS 321 OR AMS 5645.
 f. CODE LETTER T - TYPE 6AL-4V TITANIUM ALLOY BAR PER AMS 4928.
 g. CODE LETTER W - TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS 4124 OR TYPE 7075-T73 ALUMINUM ALLOY BAR PER QQ-A-225/9.

2. FINISH:

- a. NO MATERIAL CODE LETTER (HYPHEN) - CADMIUM PLATE PER QQ-P-416, TYPE II, CLASS 2. DIP IN OIL PER MIL-H-6083 OR MIL-H-46170.
 b. MATERIAL CODE LETTER T - ANODIZE PER AMS 2488 OR FLUORIDE PHOSPHATE CONVERSION COAT PER AMS 2486.
 c. MATERIAL CODE LETTERS D AND W - ANODIZE PER MIL-A-8625, TYPE 2.
 d. MATERIAL CODE LETTERS J, K, AND R - PASSIVATE PER QQ-P-35, TYPE VI OR VII. THE INSIDE ONLY OF SIZES 25 THROUGH 40 NUTS SHALL BE COATED WITH SOLID FILM LUBRICANT PER MIL-L-46010, TYPE I. MINOR OVERSPRAY OF THE LUBRICANT ON THE OUTSIDE OF THE NUT IS PERMITTED.

/3/ DN = NOMINAL TUBE OUTSIDE DIAMETER.

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NUT, RETAINED, FLARELESS,
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