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REV. C
MA3428™

FEDERAL SUPPLY CLASS
5310

RATIONALE

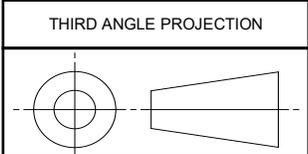
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CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: MA1937, SEE NOTE 6



METRIC AEROSPACE STANDARD
NUT, CASTELLATED, HEX - THIN,
UNS S66286, SILVER PLATE,
MJ THREAD, METRIC

MA3428™

REV. C

ISSUED 1985-12 REAFFIRMED 2006-05 REVISED 2016-04 STABILIZED 2021-05

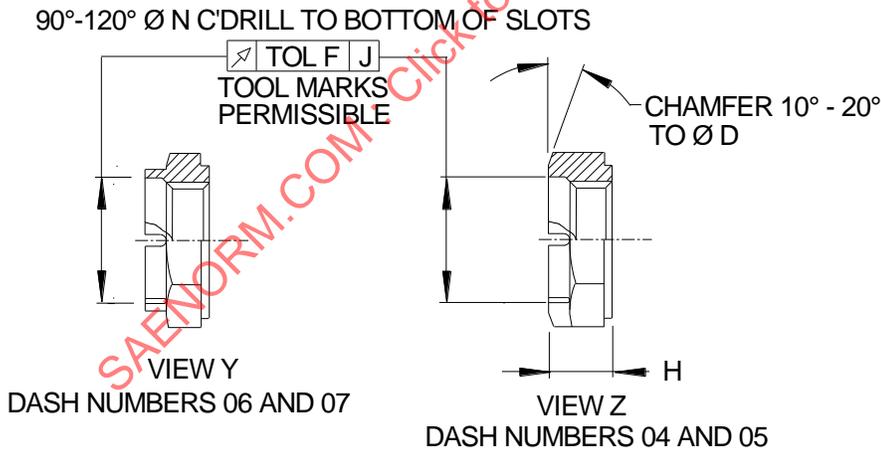
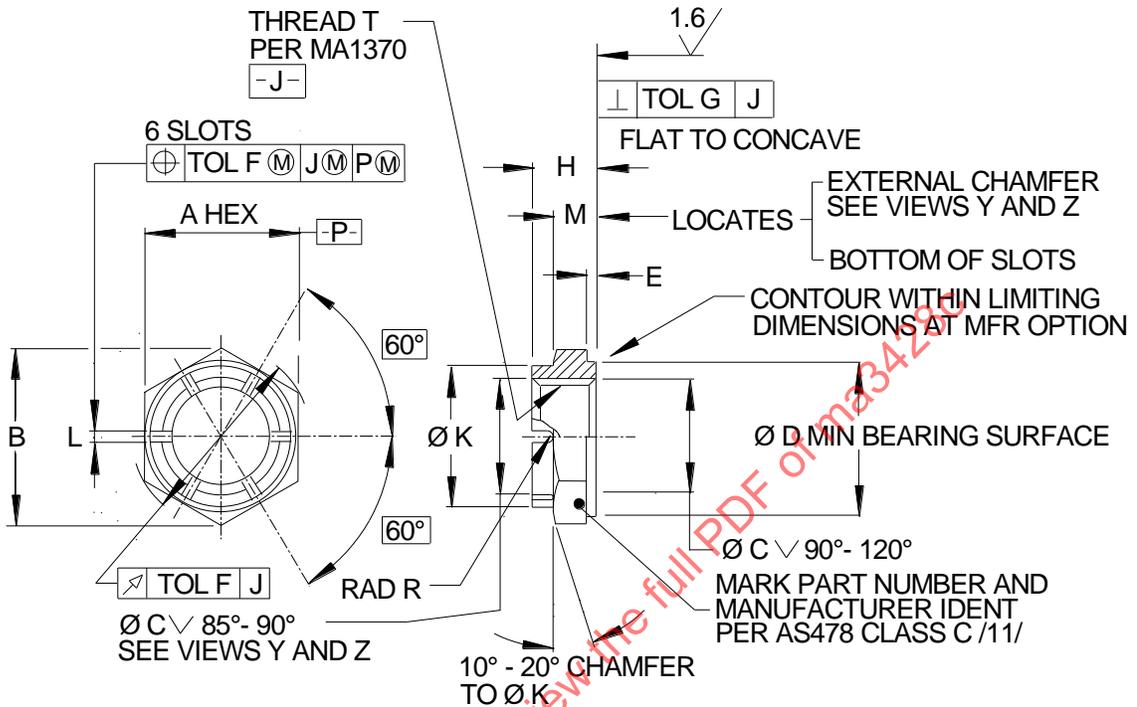


FIGURE 1

	METRIC AEROSPACE STANDARD	MA3428™ SHEET 1 OF 3	REV. C
	NUT, CASTELLATED, HEX - THIN, UNS S66286, SILVER PLATE, MJ THREAD, METRIC		

TABLE 1 - DIMENSIONS

PART NO.	THREAD T	A		B MIN	C	D MIN	E	F	G
		1/							
MA3428-04	MJ4 X 0.7-4H6H	6.85 - 7.00	H12	7.6	4.2 - 4.8	6.4	0.2 - 0.5	0.20	0.10
MA3428-05	MJ5 X 0.8-4H6H	7.85 - 8.00		8.7	5.2 - 5.8	7.4	0.2 - 0.5	0.20	0.10
MA3428-06	MJ6 X 1-4H5H	9.78 - 10.00		10.9	6.3 - 7.1	9.3	0.2 - 0.5	0.20	0.10
MA3428-07	MJ7 X 1-4H5H	10.73 - 11.00		12.0	7.3 - 8.1	10.2	0.2 - 0.5	0.20	0.10
MA3428-08	MJ8 X 1-4H5H	11.73 - 12.00	H13	13.2	8.3 - 9.1	11.2	0.2 - 0.5	0.20	0.10
MA3428-10	MJ10 X 1.25-4H5H	13.73 - 14.00		15.5	10.3 - 11.1	13.2	0.3 - 0.6	0.25	0.13
MA3428-12	MJ12 X 1.25-4H5H	16.73 - 17.00		18.9	12.3 - 13.1	16.0	0.3 - 0.6	0.25	0.13
MA3428-14	MJ14 X 1.5-4H5H	18.67 - 19.00		21.1	14.4 - 15.2	18.0	0.3 - 0.6	0.25	0.15
MA3428-16	MJ16 X 1.5-4H5H	21.67 - 22.00		24.5	16.4 - 17.2	21.0	0.3 - 0.6	0.30	0.18
MA3428-18	MJ18 X 1.5-4H5H	23.67 - 24.00		26.8	18.4 - 19.2	23.0	0.3 - 0.6	0.30	0.18
MA3428-20	MJ20 X 1.5-4H5H	26.67 - 27.00		30.2	20.4 - 21.2	26.0	0.3 - 0.6	0.30	0.18

1/ TOLERANCE GRADES TO ANSI B4.2-1978.

TABLE 1 - DIMENSIONS (CONTINUED)

PART NO.	H	L		M		N		R	K	APPROX MASS KG/100
		H14 1/		H14 1/		H15 1/				
MA3428-04	3.85 - 4.35	1.30 - 1.55		1.85 - 2.10		4.00 - 4.48		0.1 - 0.6	-	0.0761
MA3428-05	4.55 - 5.05	1.70 - 1.95		2.15 - 2.40		5.00 - 5.48		0.2 - 0.8	-	0.1516
MA3428-06	5.15 - 5.65	1.70 - 1.95		2.75 - 3.00		6.00 - 6.48		0.2 - 0.8	8.75 - 9.25	0.1784
MA3428-07	5.55 - 6.05	2.10 - 2.35		2.75 - 3.00		7.00 - 7.58		0.2 - 1.0	9.75 - 10.25	0.2058
MA3428-08	5.75 - 6.25	2.10 - 2.35		2.90 - 3.20		-		0.2 - 1.0	10.75 - 11.25	0.2606
MA3428-10	7.30 - 7.80	2.60 - 2.85		3.70 - 4.00		-		0.3 - 1.3	12.25 - 12.75	0.3939
MA3428-12	8.10 - 8.60	2.60 - 2.85		4.50 - 4.80		-		0.3 - 1.3	14.25 - 14.75	0.6637
MA3428-14	9.75 - 10.25	3.20 - 3.50		5.30 - 5.60		-		0.3 - 1.6	16.75 - 17.25	0.9560
MA3428-16	10.55 - 11.05	3.20 - 3.50		6.04 - 6.40		-		0.3 - 1.6	18.75 - 19.25	1.416
MA3428-18	12.15 - 12.65	4.00 - 4.30		6.84 - 7.20		-		0.4 - 2.0	21.75 - 22.25	1.862
MA3428-20	12.95 - 13.45	4.00 - 4.30		7.64 - 8.00		-		0.4 - 2.0	23.75 - 24.25	2.557

NOTES:

- MATERIAL: CRES, AMS5731, AMS5732, AMS5734, OR AMS5737 (UNS S66286).
- HEAT TREATMENT: AMS5731 AND AMS5734 PRECIPITATION HEAT TREAT PER MATERIAL SPEC.
- HARDNESS: 26 TO 39 HRC OR EQUIVALENT.
- FINISH: SILVER PLATE PER AMS2411. SEE PROCUREMENT SPECIFICATION FOR THICKNESS REQUIREMENTS. DIMENSIONS ARE AFTER PLATING.
- FLUORESCENT PENETRANT INSPECTION: ASTM E1417/E1417M BEFORE PLATING. ACCEPTANCE CRITERIA PER MA1937.
- PROCUREMENT SPECIFICATION: MA1937, STRENGTH CLASS 516 MPa.
- SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 3.2 MICROMETERS Ra.
- BREAK EDGES 0.1 TO 0.4 UNLESS OTHERWISE SPECIFIED.
- DIMENSIONING AND TOLERANCING: ANSI Y14.5M-1982 (ASME PUBLICATION)
- ALL LINEAR DIMENSIONS IN SI MILLIMETERS.

	METRIC AEROSPACE STANDARD	MA3428™ SHEET 2 OF 3	REV. C
	NUT, CASTELLATED, HEX - THIN, UNS S66286, SILVER PLATE, MJ THREAD, METRIC		