



REV.
A

Documents

NOTES:

- /1/ FOR PART NUMBERS WHERE DIMENSION N IS EQUAL TO OR LESS THAN ONE TIMES THE NOMINAL DIAMETER OF THE THREAD, DATUM **A** (THREAD PD) SHALL REPLACE DATUM **B**.
2. MATERIAL: CORROSION AND HEAT RESISTANT NICKEL ALLOY: AMS5662 (COMPOSITION SIMILAR TO UNS N07718).
3. PROCUREMENT SPECIFICATION: MA3377.
4. HARDNESS: 40 TO 46 HRC OR EQUIVALENT.
5. FLUORESCENT PENETRANT INSPECTION: ASTM E1417/E1417M, TYPE 1, SENSITIVITY LEVEL 2 MIN.
6. SURFACE TEXTURE: SYMBOLS PER ANSI Y14.36-1978; REQUIREMENTS PER ANSI B46.1-1978. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 3.2 MICROMETERS Ra MAX.
- /7/ PART NUMBERS SHALL INCLUDE THE STANDARD NUMBER AND THE DASH NUMBER TO INDICATE DIAMETER AND LENGTH. EXAMPLE OF PART NUMBER:

 MA3369-030014 = BOLT, MJ3X0.5 THREAD, 14 LONG.
 MA3369-200114 = BOLT, MJ20X1.5 THREAD, 114 LONG.
- /8/ MARK PART NUMBER AND MANUFACTURER'S IDENTIFICATION PER AS478 CLASS A. FOR MJ3, MJ4, AND MJ5 MARK ONLY MA3369 AND MANUFACTURER'S IDENTIFICATION.
9. BREAK EDGES 0.1 TO 0.4, UNLESS OTHERWISE SPECIFIED.
- /10/ DIMENSIONING AND TOLERANCING: ANSI Y14.5M-1982 (ASME PUBLICATION). TOLERANCE GRADE PER ANSI B4.2-1978 (ASME PUBLICATION).
11. ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS OTHERWISE SPECIFIED.
12. UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
13. DO NOT USE UNASSIGNED PART NUMBERS.
14. REVISION INDICATOR: A 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, INCLUDING TECHNICAL REVISIONS. CHANGE BARS AND (R) ARE NOT USED IN ORIGINAL PUBLICATIONS, NOR IN DOCUMENTS THAT CONTAIN EDITORIAL CHANGES ONLY.

MA, AS, AND AMS ARE SAE INTERNATIONAL PUBLICATIONS.

ASME IS AN ASME INTERNATIONAL PUBLICATION.

ASTM IS AN ASTM INTERNATIONAL PUBLICATION.

	METRIC AEROSPACE STANDARD		MA3369™ SHEET 2 OF 15	REV. A
	BOLT, MACHINE-HEX HEAD, DRILLED, PD SHANK, LONG THREAD, NICKEL ALLOY UNS N07718, METRIC			

 Documents



Document Sharing Hub

TABLE 1A - PART NUMBERS, THREAD T, AND DIMENSIONS C THRU H

PART NUMBER /7/	NOM DIA	THREAD T	ØC	D	E MAX	F	F TOL GRADE /10/	ØG MIN	H
MA3369-030XXX	3	MJ3x0.3-4h6h	1.8- 2.3	3.1- 3.4	7.6	6.85- 7.00	h12	6.5	0.2-0.5
MA3369-040XXX	4	MJ4x0.7-4h6h	2.6- 3.1	3.6- 3.9	8.7	7.85- 8.00	h12	7.5	0.2-0.5
MA3369-050XXX	5	MJ5x0.8-4h6h	3.0- 4.0	2.7- 3.0	9.8	8.78- 9.00	h13	8.4	0.2-0.5
MA3369-060XXX	6	MJ6x1-4h6h	3.7- 4.7	3.2- 3.5	12.0	10.73-11.00	h13	10.3	0.2-0.5
MA3369-070XXX	7	MJ7x1-4h6h	4.7- 5.7	3.7- 4.0	13.2	11.73-12.00	h13	11.3	0.2-0.5
MA3369-080XXX	8	MJ8x1-4h6h	5.7- 6.7	4.2- 4.5	15.5	13.73-14.00	h13	13.3	0.3-0.6
MA3369-100XXX	10	MJ10x1.25-4h6h	7.4- 8.4	4.7- 5.0	18.9	16.73-17.00	h13	16.3	0.3-0.6
MA3369-120XXX	12	MJ12x1.25-4h6h	9.4-10.4	5.7- 6.0	21.1	18.67-19.00	h13	18.3	0.3-0.6
MA3369-140XXX	14	MJ14x1.5-4h6h	11.1-12.1	6.7- 7.0	24.5	21.67-22.00	h13	21.3	0.3-0.6
MA3369-160XXX	16	MJ16x1.5-4h6h	13.1-14.1	7.7- 8.0	26.8	23.67-24.00	h13	23.3	0.3-0.6
MA3369-180XXX	18	MJ18x1.5-4h6h	15.1-16.1	8.7- 9.0	30.2	26.67-27.00	h13	26.3	0.3-0.6
MA3369-200XXX	20	MJ20x1.5-4h6h	17.1-18.1	9.7-10.0	33.6	29.67-30.00	h13	29.3	0.3-0.6

TABLE 1B - PART NUMBERS AND DIMENSIONS J THRU AE

PART NUMBER /7/	NOM DIA	ØJ MIN	ØK	p TOL	R	W TOL	ØAA MAX	AC BASIC	AD BASIC	ØAE
MA3369-030XXX	3	6.4	2.55- 2.81	0.10	0.2-0.4	0.15	7.25	---	1.55	1.00-1.14
MA3369-040XXX	4	7.4	3.42- 3.68	0.12	0.2-0.4	0.20	8.25	---	1.80	1.00-1.14
MA3369-050XXX	5	8.3	4.35- 4.61	0.12	0.3-0.5	0.25	9.25	3.70	1.35	1.00-1.14
MA3369-060XXX	6	10.2	5.22- 5.48	0.12	0.5-0.7	0.30	11.25	4.50	1.60	1.40-1.54
MA3369-070XXX	7	11.2	6.22- 6.48	0.15	0.5-0.7	0.35	12.25	4.95	1.85	1.40-1.54
MA3369-080XXX	8	13.2	7.22- 7.48	0.15	0.5-0.7	0.40	14.25	5.80	2.10	1.40-1.54
MA3369-100XXX	10	16.0	9.06- 9.32	0.15	0.6-0.8	0.50	17.25	7.10	2.35	1.60-1.74
MA3369-120XXX	12	18.0	11.06-11.32	0.18	0.6-0.9	0.60	19.25	7.90	2.85	1.60-1.74
MA3369-140XXX	14	21.0	12.90-13.16	0.18	0.8-1.1	0.70	22.25	9.20	3.35	1.60-1.74
MA3369-160XXX	16	23.0	14.90-15.16	0.18	0.8-1.1	0.75	24.25	10.05	3.85	1.60-1.74
MA3369-180XXX	18	26.0	16.90-17.16	0.18	1.0-1.3	0.75	27.25	11.30	4.35	1.60-1.74
MA3369-200XXX	20	29.0	18.90-19.16	0.21	1.0-1.3	0.75	30.25	12.60	4.85	1.60-1.74



METRIC AEROSPACE STANDARD

BOLT, MACHINE-HEX HEAD, DRILLED, PD
SHANK, LONG THREAD, NICKEL ALLOY UNS N07718,
METRIC

MA3369™
SHEET 3 OF 15

**REV.
A**



Documents

Document Sharing Hub

TABLE 2 - DASH NO., DIMENSIONS L, M, N, Y, AND APPROX MASS

SIZE	DASH NO. /7/	L	M MAX	N MIN	Y TOL	APPROX MASS kg/100
MJ3x0.5-4h6h	030004	3.7- 4.3	1.4	0.4	0.012	0.107
	030006	5.7- 6.3	1.4	0.4	0.018	0.118
	030008	7.7- 8.3	1.4	0.4	0.024	0.126
	030010	9.7-10.3	1.4	0.4	0.030	0.135
	030012	11.7-12.3	1.4	0.4	0.036	0.143
	030014	13.7-14.3	2.0	0.4	0.042	0.152
	030016	15.7-16.3	4.0	1.5	0.048	0.161
	030018	17.7-18.3	6.0	3.5	0.054	0.169
	030020	19.7-20.3	8.0	5.5	0.060	0.178
	030022	21.7-22.3	10.0	7.5	0.066	0.187
	030024	23.7-24.3	12.0	9.5	0.072	0.195
	030026	25.7-26.3	14.0	11.5	0.078	0.204
	030028	27.7-28.3	16.0	13.5	0.084	0.213
	030030	29.7-30.3	18.0	15.5	0.090	0.221
	030032	31.7-32.3	20.0	17.5	0.096	0.230
	030034	33.7-34.3	22.0	19.5	0.102	0.239
	030036	35.7-36.3	24.0	21.5	0.108	0.247
	030038	37.7-38.3	26.0	23.5	0.114	0.256
	030040	39.7-40.3	28.0	25.5	0.120	0.265
	030042	41.7-42.3	30.0	27.5	0.126	0.273



METRIC AEROSPACE STANDARD

BOLT, MACHINE-HEX HEAD, DRILLED, PD
SHANK, LONG THREAD, NICKEL ALLOY UNS N07718,
METRIC

MA3369™
SHEET 4 OF 15

**REV.
A**



Documents

Document Sharing Hub

TABLE 2 - DASH NO., DIMENSIONS L, M, N, Y, AND APPROX MASS (CONTINUED)

SIZE	DASH NO. /7/	L	M MAX	N MIN	Y TOL	APPROX MASS kg/100
MJ4x0.7-4h6h	040006	5.7- 6.3	1.8	0.4	0.018	0.186
	040008	7.7- 8.3	1.8	0.4	0.024	0.203
	040010	9.7-10.3	1.8	0.4	0.030	0.218
	040012	11.7-12.3	1.8	0.4	0.036	0.233
	040014	13.7-14.3	1.8	0.4	0.042	0.249
	040016	15.7-16.3	2.0	0.4	0.048	0.263
	040018	17.7-18.3	4.0	1.1	0.054	0.278
	040020	19.7-20.3	6.0	3.1	0.060	0.293
	040022	21.7-22.3	8.0	5.1	0.066	0.309
	040024	23.7-24.3	10.0	7.1	0.072	0.325
	040026	25.7-26.3	12.0	9.1	0.078	0.338
	040028	27.7-28.3	14.0	11.1	0.084	0.355
	040030	29.7-30.3	16.0	13.1	0.090	0.370
	040032	31.7-32.3	18.0	15.1	0.096	0.386
	040034	33.7-34.3	20.0	17.1	0.102	0.402
	040036	35.7-36.3	22.0	19.1	0.108	0.417
	040038	37.7-38.3	24.0	21.1	0.114	0.432
	040040	39.7-40.3	26.0	23.1	0.120	0.447
	040042	41.7-42.3	28.0	25.1	0.126	0.462
	040044	43.7-44.3	30.0	27.1	0.132	0.477
	040046	45.7-46.3	32.0	29.1	0.138	0.492
	040048	47.7-48.3	34.0	31.1	0.144	0.507
	040050	49.7-50.3	36.0	33.1	0.150	0.522
	040052	51.7-52.3	38.0	35.1	0.156	0.537
	040054	53.7-54.3	40.0	37.1	0.162	0.552
	040056	55.7-56.3	42.0	39.1	0.168	0.568



METRIC AEROSPACE STANDARD

BOLT, MACHINE-HEX HEAD, DRILLED, PD
SHANK, LONG THREAD, NICKEL ALLOY UNS N07718,
METRIC

MA3369™
SHEET 5 OF 15

**REV.
A**



Documents

Document Sharing Hub