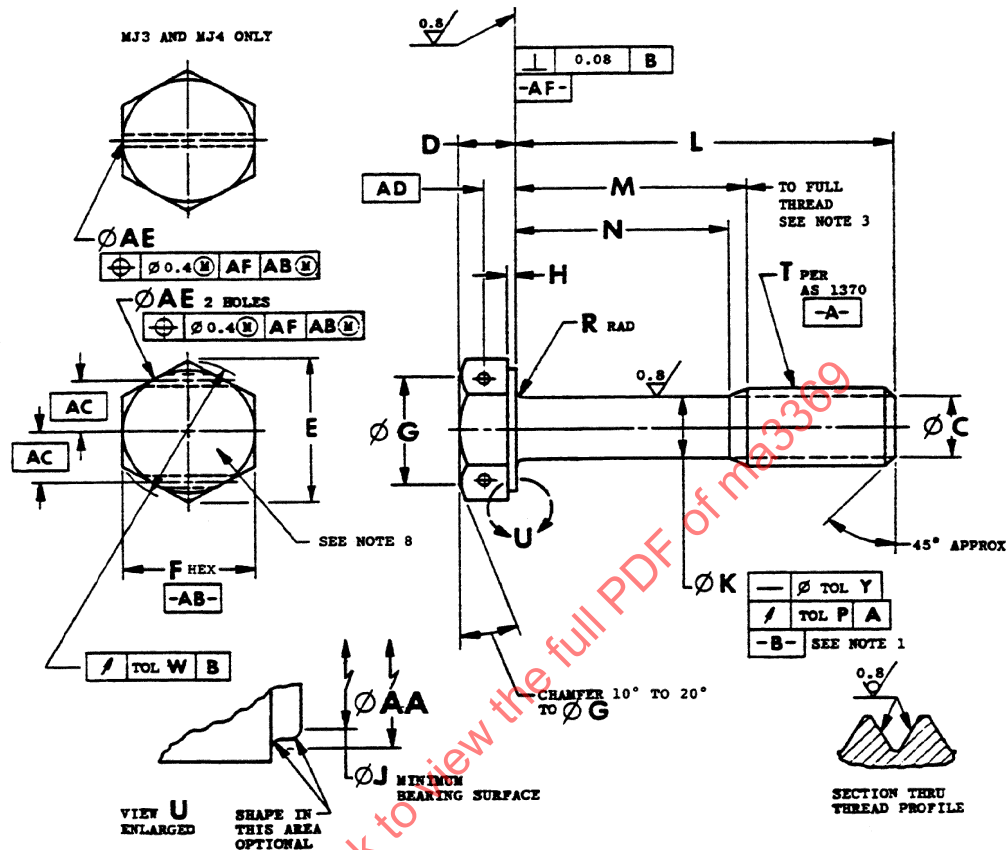


## RATIONALE

MA3369 HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

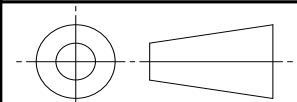
MA3369



1. FOR PART NUMBERS WHERE DIMENSION N IS EQUAL TO OR LESS THAN ONE TIMES THE NOMINAL DIAMETER OF THE THREAD, THE THREAD PD SHALL REPLACE DATUM B.
2. MATERIAL: CORROSION AND HEAT RESISTANT NICKEL ALLOY, AMS 5662 (UNS N07718).
3. PROCUREMENT SPECIFICATION: MA3377.
4. HARDNESS: 40-46 HRC OR EQUIVALENT.
5. FLOURESCENT PENETRANT INSPECTION: AMS 2645.
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 NUMBER 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 0.1-0.4, UNLESS OTHERWISE SPECIFIED.
10. DIMENSIONING AND TOLERANCING: ANSI Y14.5M-1982. TOLERANCE GRADE PER ANSI B4.2-1978.
11. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
12. DO NOT USE UNASSIGNED PART NUMBERS.

SAE values your input. To provide feedback  
on this Technical Report, please visit  
<http://www.sae.org/technical/standards/MA3369>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25



## METRIC AEROSPACE STANDARD

BOLT, MACHINE-HEX HEAD, DRILLED, PD  
SHANK, LONG THREAD, AMS 5662, METRICMA3369  
SHEET 1 OF 7

TABLE I

| PART NUMBER<br>SEE NOTE 7 | NOM<br>DIA<br>REF | THREAD         |           |          | E<br>MIN | F           | G<br>MIN | H    |         |
|---------------------------|-------------------|----------------|-----------|----------|----------|-------------|----------|------|---------|
|                           |                   | T              | C         | D        |          |             |          |      |         |
| MA3369-030XXX             | 3                 | MJ3x0.5-4h6h   | 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   |          | 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   |          | 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 |          | 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 |          | 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 |          | 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 |          | 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 |          | 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 |          | 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 |          | 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 |          | 29.3 | 0.3-0.6 |

| PART NUMBER<br>SEE NOTE 7 | NOM<br>DIA<br>REF | J<br>MIN | K           | P<br>TOL | R       | W<br>TOL | AA<br>MAX | AC    | AD   | AE        |
|---------------------------|-------------------|----------|-------------|----------|---------|----------|-----------|-------|------|-----------|
| 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 |

TABLE II

| L<br>±0.3 | MJ3x0.5-4h6h           |          |          |          |                    | MJ4x0.7-4h6h           |          |          |          |                    |
|-----------|------------------------|----------|----------|----------|--------------------|------------------------|----------|----------|----------|--------------------|
|           | DASH NO.<br>SEE NOTE 7 | M<br>MAX | N<br>MIN | Y<br>TOL | MASS<br>kg/<br>100 | DASH NO.<br>SEE NOTE 7 | M<br>MAX | N<br>MIN | Y<br>TOL | MASS<br>kg/<br>100 |
| 4.0       | 030004                 | 1.4      | 0.4      | 0.012    | 0.107              | —                      | —        | —        | —        | —                  |
| 6.0       | 030006                 | 1.4      | 0.4      | 0.018    | 0.118              | 040006                 | 1.8      | 0.4      | 0.018    | 0.186              |
| 8.0       | 030008                 | 1.4      | 0.4      | 0.024    | 0.126              | 040008                 | 1.8      | 0.4      | 0.024    | 0.203              |
| 10.0      | 030010                 | 1.4      | 0.4      | 0.030    | 0.135              | 040010                 | 1.8      | 0.4      | 0.030    | 0.218              |
| 12.0      | 030012                 | 1.4      | 0.4      | 0.036    | 0.143              | 040012                 | 1.8      | 0.4      | 0.036    | 0.233              |
| 14.0      | 030014                 | 2.0      | 0.4      | 0.042    | 0.152              | 040014                 | 1.8      | 0.4      | 0.042    | 0.249              |
| 16.0      | 030016                 | 4.0      | 1.5      | 0.048    | 0.161              | 040016                 | 2.0      | 0.4      | 0.048    | 0.263              |
| 18.0      | 030018                 | 6.0      | 3.5      | 0.054    | 0.169              | 040018                 | 4.0      | 1.1      | 0.054    | 0.278              |
| 20.0      | 030020                 | 8.0      | 5.5      | 0.060    | 0.178              | 040020                 | 6.0      | 3.1      | 0.060    | 0.293              |
| 22.0      | 030022                 | 10.0     | 7.5      | 0.066    | 0.187              | 040022                 | 8.0      | 5.1      | 0.066    | 0.309              |
| 24.0      | 030024                 | 12.0     | 9.5      | 0.072    | 0.195              | 040024                 | 10.0     | 7.1      | 0.072    | 0.325              |
| 26.0      | 030026                 | 14.0     | 11.5     | 0.078    | 0.204              | 040026                 | 12.0     | 9.1      | 0.078    | 0.338              |
| 28.0      | 030028                 | 16.0     | 13.5     | 0.084    | 0.213              | 040028                 | 14.0     | 11.1     | 0.084    | 0.355              |
| 30.0      | 030030                 | 18.0     | 15.5     | 0.090    | 0.221              | 040030                 | 16.0     | 13.1     | 0.090    | 0.370              |
| 32.0      | 030032                 | 20.0     | 17.5     | 0.096    | 0.230              | 040032                 | 18.0     | 15.1     | 0.096    | 0.386              |
| 34.0      | 030034                 | 22.0     | 19.5     | 0.102    | 0.239              | 040034                 | 20.0     | 17.1     | 0.102    | 0.402              |
| 36.0      | 030036                 | 24.0     | 21.5     | 0.108    | 0.247              | 040036                 | 22.0     | 19.1     | 0.108    | 0.417              |
| 38.0      | 030038                 | 26.0     | 23.5     | 0.114    | 0.256              | 040038                 | 24.0     | 21.1     | 0.114    | 0.432              |
| 40.0      | 030040                 | 28.0     | 25.5     | 0.120    | 0.265              | 040040                 | 26.0     | 23.1     | 0.120    | 0.447              |
| 42.0      | 030042                 | 30.0     | 27.5     | 0.126    | 0.273              | 040042                 | 28.0     | 25.1     | 0.126    | 0.462              |
| 44.0      | —                      | —        | —        | —        | —                  | 040044                 | 30.0     | 27.1     | 0.132    | 0.477              |
| 46.0      | —                      | —        | —        | —        | —                  | 040046                 | 32.0     | 29.1     | 0.138    | 0.492              |
| 48.0      | —                      | —        | —        | —        | —                  | 040048                 | 34.0     | 31.1     | 0.144    | 0.507              |
| 50.0      | —                      | —        | —        | —        | —                  | 040050                 | 36.0     | 33.1     | 0.150    | 0.522              |
| 52.0      | —                      | —        | —        | —        | —                  | 040052                 | 38.0     | 35.1     | 0.156    | 0.537              |
| 54.0      | —                      | —        | —        | —        | —                  | 040054                 | 40.0     | 37.1     | 0.162    | 0.552              |
| 56.0      | —                      | —        | —        | —        | —                  | 040056                 | 42.0     | 39.1     | 0.168    | 0.568              |

TABLE II (CONTINUED)

| L<br>±0.3 | MJ5x0.8-4h6h           |          |          |          |                    | MJ6x1-4h6h             |          |          |          |                    |
|-----------|------------------------|----------|----------|----------|--------------------|------------------------|----------|----------|----------|--------------------|
|           | DASH NO.<br>SEE NOTE 7 | M<br>MAX | N<br>MIN | Y<br>TOL | MASS<br>kg/<br>100 | DASH NO.<br>SEE NOTE 7 | M<br>MAX | N<br>MIN | Y<br>TOL | MASS<br>kg/<br>100 |
| 8.0       | 050008                 | 2.1      | 0.5      | 0.024    | 0.259              | —                      | —        | —        | —        | —                  |
| 10.0      | 050010                 | 2.1      | 0.5      | 0.030    | 0.283              | 060010                 | 2.7      | 0.7      | 0.030    | 0.426              |
| 12.0      | 050012                 | 2.1      | 0.5      | 0.036    | 0.317              | 060012                 | 2.7      | 0.7      | 0.036    | 0.461              |
| 14.0      | 050014                 | 2.1      | 0.5      | 0.042    | 0.332              | 060014                 | 2.7      | 0.7      | 0.042    | 0.497              |
| 16.0      | 050016                 | 2.1      | 0.5      | 0.048    | 0.356              | 060016                 | 2.7      | 0.7      | 0.048    | 0.532              |
| 18.0      | 050018                 | 2.1      | 0.5      | 0.054    | 0.381              | 060018                 | 2.7      | 0.7      | 0.054    | 0.568              |
| 20.0      | 050020                 | 4.0      | 0.9      | 0.060    | 0.405              | 060020                 | 2.7      | 0.7      | 0.060    | 0.603              |
| 22.0      | 050022                 | 6.0      | 2.9      | 0.066    | 0.429              | 060022                 | 4.0      | 0.7      | 0.066    | 0.638              |
| 24.0      | 050024                 | 8.0      | 4.9      | 0.072    | 0.457              | 060024                 | 6.0      | 2.5      | 0.072    | 0.674              |
| 26.0      | 050026                 | 10.0     | 6.9      | 0.078    | 0.478              | 060026                 | 8.0      | 4.5      | 0.078    | 0.709              |
| 28.0      | 050028                 | 12.0     | 8.9      | 0.084    | 0.502              | 060028                 | 10.0     | 6.5      | 0.084    | 0.744              |
| 30.0      | 050030                 | 14.0     | 10.9     | 0.090    | 0.527              | 060030                 | 12.0     | 8.5      | 0.090    | 0.780              |
| 32.0      | 050032                 | 16.0     | 12.9     | 0.096    | 0.551              | 060032                 | 14.0     | 10.5     | 0.096    | 0.815              |
| 34.0      | 050034                 | 18.0     | 14.9     | 0.102    | 0.576              | 060034                 | 16.0     | 12.5     | 0.102    | 0.850              |
| 36.0      | 050036                 | 20.0     | 16.9     | 0.108    | 0.600              | 060036                 | 18.0     | 14.5     | 0.108    | 0.885              |
| 38.0      | 050038                 | 22.0     | 18.9     | 0.114    | 0.624              | 060038                 | 20.0     | 16.5     | 0.114    | 0.921              |
| 40.0      | 050040                 | 24.0     | 20.9     | 0.120    | 0.649              | 060040                 | 22.0     | 18.5     | 0.120    | 0.956              |
| 42.0      | 050042                 | 26.0     | 22.9     | 0.126    | 0.673              | 060042                 | 24.0     | 20.5     | 0.126    | 0.992              |
| 44.0      | 050044                 | 28.0     | 24.9     | 0.132    | 0.697              | 060044                 | 26.0     | 22.5     | 0.132    | 1.027              |
| 46.0      | 050046                 | 30.0     | 26.9     | 0.138    | 0.722              | 060046                 | 28.0     | 24.5     | 0.138    | 1.062              |
| 48.0      | 050048                 | 32.0     | 28.9     | 0.144    | 0.746              | 060048                 | 30.0     | 26.5     | 0.144    | 1.098              |
| 50.0      | 050050                 | 34.0     | 30.9     | 0.150    | 0.771              | 060050                 | 32.0     | 28.5     | 0.150    | 1.133              |
| 52.0      | 050052                 | 36.0     | 32.9     | 0.156    | 0.795              | 060052                 | 34.0     | 30.5     | 0.156    | 1.168              |
| 54.0      | 050054                 | 38.0     | 34.9     | 0.162    | 0.819              | 060054                 | 36.0     | 32.5     | 0.162    | 1.204              |
| 56.0      | 050056                 | 40.0     | 36.9     | 0.168    | 0.844              | 060056                 | 38.0     | 34.5     | 0.168    | 1.239              |
| 58.0      | 050058                 | 42.0     | 38.9     | 0.174    | 0.868              | 060058                 | 40.0     | 36.5     | 0.174    | 1.274              |
| 60.0      | 050060                 | 44.0     | 40.9     | 0.180    | 0.893              | 060060                 | 42.0     | 38.5     | 0.180    | 1.310              |
| 64.0      | 050064                 | 48.0     | 44.9     | 0.192    | 0.941              | 060064                 | 46.0     | 42.5     | 0.192    | 1.380              |
| 68.0      | 050068                 | 52.0     | 48.9     | 0.204    | 0.990              | 060068                 | 50.0     | 46.5     | 0.204    | 1.451              |
| 72.0      | —                      | —        | —        | —        | —                  | 060072                 | 54.0     | 50.5     | 0.216    | 1.522              |
| 76.0      | —                      | —        | —        | —        | —                  | 060076                 | 58.0     | 54.5     | 0.228    | 1.593              |
| 80.0      | —                      | —        | —        | —        | —                  | 060080                 | 62.0     | 58.5     | 0.240    | 1.663              |
| 84.0      | —                      | —        | —        | —        | —                  | 060084                 | 66.0     | 62.5     | 0.252    | 1.735              |



## METRIC AEROSPACE STANDARD

BOLT, MACHINE-HEX HEAD, DRILLED, PD  
SHANK, LONG THREAD, AMS 5662, METRICMA3369  
SHEET 3 OF 7

TABLE II (CONTINUED)

| L<br>±0.3 | MJ7x1-4h6h             |          |          |          |                    | MJ8x1-4h6h             |          |          |          |                    |
|-----------|------------------------|----------|----------|----------|--------------------|------------------------|----------|----------|----------|--------------------|
|           | DASH NO.<br>SEE NOTE 7 | M<br>MAX | N<br>MIN | Y<br>TOL | MASS<br>kg/<br>100 | DASH NO.<br>SEE NOTE 7 | M<br>MAX | N<br>MIN | Y<br>TOL | MASS<br>kg/<br>100 |
| 10.0      | 070010                 | 2.7      | 0.7      | 0.030    | 0.570              | 080010                 | 2.7      | 0.7      | 0.030    | 0.835              |
| 12.0      | 070012                 | 2.7      | 0.7      | 0.036    | 0.619              | 080012                 | 2.7      | 0.7      | 0.036    | 0.900              |
| 14.0      | 070014                 | 2.7      | 0.7      | 0.042    | 0.669              | 080014                 | 2.7      | 0.7      | 0.042    | 0.966              |
| 16.0      | 070016                 | 2.7      | 0.7      | 0.048    | 0.718              | 080016                 | 2.7      | 0.7      | 0.048    | 1.032              |
| 18.0      | 070018                 | 2.7      | 0.7      | 0.054    | 0.767              | 080018                 | 2.7      | 0.7      | 0.054    | 1.098              |
| 20.0      | 070020                 | 2.7      | 0.7      | 0.060    | 0.816              | 080020                 | 2.7      | 0.7      | 0.060    | 1.164              |
| 22.0      | 070022                 | 2.7      | 0.7      | 0.066    | 0.866              | 080022                 | 2.7      | 0.7      | 0.066    | 1.230              |
| 24.0      | 070024                 | 4.0      | 0.7      | 0.072    | 0.915              | 080024                 | 2.7      | 0.7      | 0.072    | 1.295              |
| 26.0      | 070026                 | 6.0      | 2.5      | 0.078    | 0.964              | 080026                 | 4.0      | 0.7      | 0.078    | 1.361              |
| 28.0      | 070028                 | 8.0      | 4.5      | 0.084    | 1.013              | 080028                 | 6.0      | 2.5      | 0.084    | 1.427              |
| 30.0      | 070030                 | 10.0     | 6.5      | 0.090    | 1.063              | 080030                 | 8.0      | 4.5      | 0.090    | 1.493              |
| 32.0      | 070032                 | 12.0     | 8.5      | 0.096    | 1.112              | 080032                 | 10.0     | 6.5      | 0.096    | 1.559              |
| 34.0      | 070034                 | 14.0     | 10.5     | 0.102    | 1.161              | 080034                 | 12.0     | 8.5      | 0.102    | 1.629              |
| 36.0      | 070036                 | 16.0     | 12.5     | 0.108    | 1.210              | 080036                 | 14.0     | 10.5     | 0.108    | 1.690              |
| 38.0      | 070038                 | 18.0     | 14.5     | 0.114    | 1.259              | 080038                 | 16.0     | 12.5     | 0.114    | 1.756              |
| 40.0      | 070040                 | 20.0     | 16.5     | 0.120    | 1.309              | 080040                 | 18.0     | 14.5     | 0.120    | 1.822              |
| 42.0      | 070042                 | 22.0     | 18.5     | 0.126    | 1.358              | 080042                 | 20.0     | 16.5     | 0.126    | 1.888              |
| 44.0      | 070044                 | 24.0     | 20.5     | 0.132    | 1.407              | 080044                 | 22.0     | 18.5     | 0.132    | 1.954              |
| 46.0      | 070046                 | 26.0     | 22.5     | 0.138    | 1.456              | 080046                 | 24.0     | 20.5     | 0.138    | 2.020              |
| 48.0      | 070048                 | 28.0     | 24.5     | 0.144    | 1.506              | 080048                 | 26.0     | 22.5     | 0.144    | 2.086              |
| 50.0      | 070050                 | 30.0     | 26.5     | 0.150    | 1.555              | 080050                 | 28.0     | 24.5     | 0.150    | 2.152              |
| 52.0      | 070052                 | 32.0     | 28.5     | 0.156    | 1.604              | 080052                 | 30.0     | 26.5     | 0.156    | 2.217              |
| 54.0      | 070054                 | 34.0     | 30.5     | 0.162    | 1.653              | 080054                 | 32.0     | 28.5     | 0.162    | 2.283              |
| 56.0      | 070056                 | 36.0     | 32.5     | 0.168    | 1.703              | 080056                 | 34.0     | 30.5     | 0.168    | 2.349              |
| 58.0      | 070058                 | 38.0     | 34.5     | 0.174    | 1.752              | 080058                 | 36.0     | 32.5     | 0.174    | 2.415              |
| 60.0      | 070060                 | 40.0     | 36.5     | 0.180    | 1.801              | 080060                 | 38.0     | 34.5     | 0.180    | 2.481              |
| 64.0      | 070064                 | 44.0     | 40.5     | 0.192    | 1.900              | 080064                 | 42.0     | 38.5     | 0.192    | 2.612              |
| 68.0      | 070068                 | 48.0     | 44.5     | 0.204    | 1.998              | 080068                 | 46.0     | 42.5     | 0.204    | 2.742              |
| 72.0      | 070072                 | 52.0     | 48.5     | 0.216    | 2.097              | 080072                 | 50.0     | 46.5     | 0.216    | 2.876              |
| 76.0      | 070076                 | 56.0     | 52.5     | 0.228    | 2.195              | 080076                 | 54.0     | 50.5     | 0.228    | 3.008              |
| 80.0      | 070080                 | 60.0     | 56.5     | 0.240    | 2.293              | 080080                 | 58.0     | 54.5     | 0.240    | 3.140              |
| 84.0      | 070084                 | 64.0     | 60.5     | 0.252    | 2.393              | 080084                 | 62.0     | 58.5     | 0.252    | 3.271              |
| 88.0      | 070088                 | 68.0     | 64.5     | 0.264    | 2.489              | 080088                 | 66.0     | 62.5     | 0.264    | 3.403              |
| 92.0      | 070092                 | 72.0     | 68.5     | 0.276    | 2.589              | 080092                 | 70.0     | 66.5     | 0.276    | 3.534              |
| 96.0      | 070096                 | 76.0     | 72.5     | 0.288    | 2.687              | 080096                 | 74.0     | 70.5     | 0.288    | 3.666              |
| 100.0     |                        |          |          |          |                    | 080100                 | 78.0     | 74.5     | 0.300    | 3.798              |
| 104.0     |                        |          |          |          |                    | 080104                 | 82.0     | 78.5     | 0.312    | 3.930              |
| 108.0     |                        |          |          |          |                    | 080108                 | 86.0     | 82.5     | 0.324    | 4.063              |
| 112.0     |                        |          |          |          |                    | 080112                 | 90.0     | 86.5     | 0.336    | 4.193              |

TABLE II (CONTINUED)

| L<br>±0.3 | MJ10x1.25-4h6h         |          |          |          |                    | MJ12x1.25-4h6h         |          |          |          |                    |
|-----------|------------------------|----------|----------|----------|--------------------|------------------------|----------|----------|----------|--------------------|
|           | DASH NO.<br>SEE NOTE 7 | M<br>MAX | N<br>MIN | Y<br>TOL | MASS<br>kg/<br>100 | DASH NO.<br>SEE NOTE 7 | M<br>MAX | N<br>MIN | Y<br>TOL | MASS<br>kg/<br>100 |
| 14.0      | 100014                 | 3.3      | 0.8      | 0.035    | 1.554              | —                      | —        | —        | —        | —                  |
| 16.0      | 100016                 | 3.3      | 0.8      | 0.040    | 1.657              | 120016                 | 3.4      | 0.9      | 0.040    | 2.467              |
| 18.0      | 100018                 | 3.3      | 0.8      | 0.045    | 1.760              | 120018                 | 3.4      | 0.9      | 0.045    | 2.620              |
| 20.0      | 100020                 | 3.3      | 0.8      | 0.050    | 1.863              | 120020                 | 3.4      | 0.9      | 0.050    | 2.773              |
| 22.0      | 100022                 | 3.3      | 0.8      | 0.055    | 1.966              | 120022                 | 3.4      | 0.9      | 0.055    | 2.926              |
| 24.0      | 100024                 | 3.3      | 0.8      | 0.060    | 2.069              | 120024                 | 3.4      | 0.9      | 0.060    | 3.079              |
| 26.0      | 100026                 | 3.3      | 0.8      | 0.065    | 2.173              | 120026                 | 3.4      | 0.9      | 0.065    | 3.232              |
| 28.0      | 100028                 | 3.3      | 0.8      | 0.070    | 2.276              | 120028                 | 3.4      | 0.9      | 0.070    | 3.385              |
| 30.0      | 100030                 | 4.0      | 0.8      | 0.075    | 2.379              | 120030                 | 3.4      | 0.9      | 0.075    | 3.539              |
| 32.0      | 100032                 | 6.0      | 2.0      | 0.080    | 2.482              | 120032                 | 3.4      | 0.9      | 0.080    | 3.691              |
| 34.0      | 100034                 | 8.0      | 4.0      | 0.085    | 2.589              | 120034                 | 4.0      | 0.9      | 0.085    | 3.845              |
| 36.0      | 100036                 | 10.0     | 6.0      | 0.090    | 2.689              | 120036                 | 6.0      | 2.0      | 0.090    | 3.998              |
| 38.0      | 100038                 | 12.0     | 8.0      | 0.095    | 2.792              | 120038                 | 8.0      | 4.0      | 0.095    | 4.150              |
| 40.0      | 100040                 | 14.0     | 10.0     | 0.100    | 2.895              | 120040                 | 10.0     | 6.0      | 0.100    | 4.303              |
| 42.0      | 100042                 | 16.0     | 12.0     | 0.105    | 2.998              | 120042                 | 12.0     | 8.0      | 0.105    | 4.457              |
| 44.0      | 100044                 | 18.0     | 14.0     | 0.110    | 3.101              | 120044                 | 14.0     | 10.0     | 0.110    | 4.610              |
| 46.0      | 100046                 | 20.0     | 16.0     | 0.115    | 3.204              | 120046                 | 16.0     | 12.0     | 0.115    | 4.763              |
| 48.0      | 100048                 | 22.0     | 18.0     | 0.120    | 3.307              | 120048                 | 18.0     | 14.0     | 0.120    | 4.916              |
| 50.0      | 100050                 | 24.0     | 20.0     | 0.125    | 3.411              | 120050                 | 20.0     | 16.0     | 0.125    | 5.069              |
| 52.0      | 100052                 | 26.0     | 22.0     | 0.130    | 3.514              | 120052                 | 22.0     | 18.0     | 0.130    | 5.222              |
| 54.0      | 100054                 | 28.0     | 24.0     | 0.135    | 3.617              | 120054                 | 24.0     | 20.0     | 0.135    | 5.375              |
| 56.0      | 100056                 | 30.0     | 26.0     | 0.140    | 3.720              | 120056                 | 26.0     | 22.0     | 0.140    | 5.528              |
| 58.0      | 100058                 | 32.0     | 28.0     | 0.145    | 3.824              | 120058                 | 28.0     | 24.0     | 0.145    | 5.681              |
| 60.0      | 100060                 | 34.0     | 30.0     | 0.150    | 3.926              | 120060                 | 30.0     | 26.0     | 0.150    | 5.834              |
| 64.0      | 100064                 | 38.0     | 34.0     | 0.160    | 4.133              | 120064                 | 34.0     | 30.0     | 0.160    | 6.140              |
| 68.0      | 100068                 | 42.0     | 38.0     | 0.170    | 4.339              | 120068                 | 38.0     | 34.0     | 0.170    | 6.446              |
| 72.0      | 100072                 | 46.0     | 42.0     | 0.180    | 4.546              | 120072                 | 42.0     | 38.0     | 0.180    | 6.752              |
| 76.0      | 100076                 | 50.0     | 46.0     | 0.190    | 4.752              | 120076                 | 46.0     | 42.0     | 0.190    | 7.058              |
| 80.0      | 100080                 | 54.0     | 50.0     | 0.200    | 4.958              | 120080                 | 50.0     | 46.0     | 0.200    | 7.365              |
| 84.0      | 100084                 | 58.0     | 54.0     | 0.210    | 5.165              | 120084                 | 54.0     | 50.0     | 0.210    | 7.671              |
| 88.0      | 100088                 | 62.0     | 58.0     | 0.220    | 5.371              | 120088                 | 58.0     | 54.0     | 0.220    | 7.977              |
| 92.0      | 100092                 | 66.0     | 62.0     | 0.230    | 5.577              | 120092                 | 62.0     | 58.0     | 0.230    | 8.283              |
| 96.0      | 100096                 | 70.0     | 66.0     | 0.240    | 5.784              | 120096                 | 66.0     | 62.0     | 0.240    | 8.589              |
| 100.0     | 100100                 | 74.0     | 70.0     | 0.250    | 5.990              | 120100                 | 70.0     | 66.0     | 0.250    | 8.895              |
| 104.0     | 100104                 | 78.0     | 74.0     | 0.260    | 6.196              | 120104                 | 74.0     | 70.0     | 0.260    | 9.201              |
| 108.0     | 100108                 | 82.0     | 78.0     | 0.270    | 6.403              | 120108                 | 78.0     | 74.0     | 0.270    | 9.507              |
| 112.0     | 100112                 | 86.0     | 82.0     | 0.280    | 6.609              | 120112                 | 82.0     | 78.0     | 0.280    | 9.813              |
| 116.0     | 100116                 | 90.0     | 86.0     | 0.290    | 6.815              | 120116                 | 86.0     | 82.0     | 0.290    | 10.120             |
| 120.0     | 100120                 | 94.0     | 90.0     | 0.300    | 7.022              | 120120                 | 90.0     | 86.0     | 0.300    | 10.425             |
| 124.0     | 100124                 | 98.0     | 94.0     | 0.310    | 7.229              | 120124                 | 94.0     | 90.0     | 0.310    | 10.731             |
| 128.0     | 100128                 | 102.0    | 98.0     | 0.320    | 7.434              | 120128                 | 98.0     | 94.0     | 0.320    | 11.038             |
| 132.0     | 100132                 | 106.0    | 102.0    | 0.330    | 7.641              | 120132                 | 102.0    | 98.0     | 0.330    | 11.344             |
| 136.0     | 100136                 | 110.0    | 106.0    | 0.340    | 7.747              | 120136                 | 106.0    | 102.0    | 0.340    | 11.650             |
| 140.0     | 100140                 | 114.0    | 110.0    | 0.350    | 8.054              | 120140                 | 110.0    | 106.0    | 0.350    | 11.965             |
| 144.0     |                        |          |          |          |                    | 120144                 | 114.0    | 110.0    | 0.360    | 12.262             |
| 148.0     |                        |          |          |          |                    | 120148                 | 118.0    | 114.0    | 0.370    | 12.568             |
| 152.0     |                        |          |          |          |                    | 120152                 | 122.0    | 118.0    | 0.380    | 12.874             |
| 156.0     |                        |          |          |          |                    | 120156                 | 126.0    | 122.0    | 0.390    | 13.180             |
| 160.0     |                        |          |          |          |                    | 120160                 | 130.0    | 126.0    | 0.400    | 13.486             |
| 164.0     |                        |          |          |          |                    | 120164                 | 134.0    | 130.0    | 0.410    | 13.792             |
| 168.0     |                        |          |          |          |                    | 120168                 | 138.0    | 134.0    | 0.420    | 14.099             |