

## NUTS

### **AN 364/365 NYLON INSERT LOCKNUTS –**

These are the most common and inexpensive self-locking aircraft nuts. Almost infinitely reusable, tensile strength rated at 125,000 psi with a 250°F temperature rating. Thin pattern (AN 364) nuts should only be used in shear load applications.

### **AN 315/316 NON-LOCKING CHECKNUTS (JAMNUTS) –**

These free-spinning low profile nuts are used to lock rod ends and other threaded components into position. Available in right and left handed threads. Gold cad plated steel.

### **MS 21042/NAS1291 REDUCED DIMENSION ALL METAL LOCKNUTS (JETNUTS AND KAYNUTS)**

These nuts feature a good combination of light weight and high strength (160,000 psi tensile). Available in steel (450°F) and stainless (900°F). **See p. 30 for torquing information.**

### **HM 14/PH 135M REDUCED DIMENSION ALL METAL METRIC LOCKNUTS (JETNUTS AND KAYNUTS) –**

Identical to MS 21042/NAS 1291 in strength and configuration, but with metric sizing. Stocked in steel (450°F) only; moly coated (grey). Stainless steel (900°F) are available on special order.

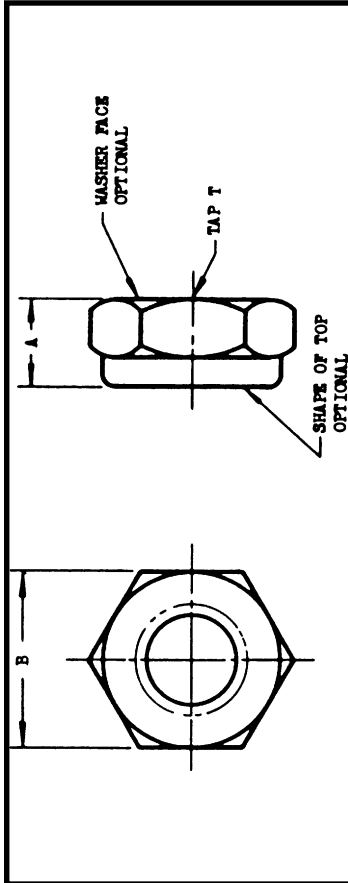
### **H93/NAS 1804 & H20/BACN10HR TWELVE POINT ALL METAL LOCKNUTS –**

For use in high strength or extremely critical applications. H93/NAS 1804 nuts have a minimum tensile strength of 180,000 psi; H20/BACN10HR nuts have a minimum tensile strength of 220,000 psi. Twelve point nuts are available in steel (450°F) and stainless (to 1200°F). **See p. 30 for torquing information.** Metric sizes available on special order.

### **KFN 542/HW14 ATTACHED WASHER ALL METAL LOCKNUTS –**

These nuts are used where reduced space or shortened assembly time makes the attached washer desirable (i.e. gear box covers, cam covers, CV joints). High strength (160,000 psi) alloy steel (450°F). Some metric sizes available on special order.

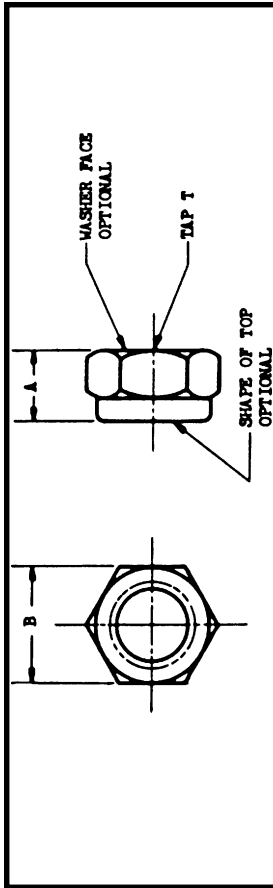
Self-locking nuts are available in combinations of configurations and specifications too numerous to document here. We can recommend and supply a nut for whatever performance requirements you have.



| FINE THREAD   |                   |                |               |            |                     |
|---------------|-------------------|----------------|---------------|------------|---------------------|
| Steel         | Dash Numbers      |                | Tap T         | A<br>+.016 | B<br>+.002<br>-.010 |
|               | Copper Base Alloy | Aluminum Alloy |               |            |                     |
| 1032          | B1032             | D1032          | #10-32 NF-3   | 0.172      | 0.375               |
| 428           | B428              | D428           | 1/4-28 NF-3   | 0.203      | 0.438               |
| 524           | B524              | D524           | 5/16-24 NF-3  | 0.250      | 0.5                 |
| 624           | B624              | D624           | 3/8-24 NF-3   | 0.266      | 0.563               |
| 720           | B720              | D720           | 7/16-20 NF-3  | 0.312      | 0.625               |
| 820           | B820              | D820           | 1/2-20 NF-3   | 0.312      | 0.75                |
| 918           | B918              | D918           | 9/16-18 NF-3  | 0.359      | 0.875               |
| 1018          | B1018             | D1018          | 5/8-18 NF-3   | 0.391      | 0.938               |
| 1216          | B1216             | D1216          | 3/4-16 NF-3   | 0.406      | 1.063               |
| 1414          | B1414             | D1414          | 7/8-14 NF-3   | 0.469      | 1.25                |
| 1614          | B1614             | D1614          | 1-14 NF-3     | 0.562      | 1.438               |
| 1812          | B1812             | D1812          | 1 1/8-12 NF-3 | 0.656      | 1.625               |
| 2012          | B2012             | D2012          | 1 1/4-12 NF-3 | 0.750      | 1.813               |
| COARSE THREAD |                   |                |               |            |                     |
| 632           |                   | D632           | #6-32 NC-2    | 0.125      | 0.312               |
| 832           |                   | D832           | #8-32 NC-2    | 0.172      | 0.344               |

All dimensions in inches.  
 (a) Minimum A not specified. Limited only by strength requirement of specification. For definition and application of drawing status note see ANA bulletin No. 337. Add "A" after dash number for nuts having nonmetallic inserts. Add "C" after dash number for nuts fabricated entirely from metal.  
 Examples of part nos.: AN364D428 = 1/4-28 steel nut, either all metal or with nonmetallic insert.  
 AN364B428A = 1/4-28 aluminum alloy nut, either all metal or with nonmetallic insert.  
 AN364B428C = 1/4-28 copper base alloy nut with nonmetallic insert  
 AN364-428C = 1/4-28 steel nut, all metal.  
 For installation instructions see drawing AND10068.

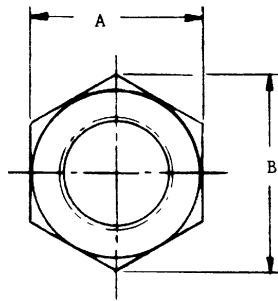
PROCUREMENT SPECIFICATION  
**AN-N5**  
**NUT - SELF LOCKING, THIN, 250°F**  
 TITLE  
**STANDARD PART AN364**  
 CLASSIFICATION



| FINE THREAD   |                   |                |               |            |                     |
|---------------|-------------------|----------------|---------------|------------|---------------------|
| Steel         | Dash Numbers      |                | Tap T         | A<br>+.016 | B<br>+.002<br>-.010 |
|               | Copper Base Alloy | Aluminum Alloy |               |            |                     |
| 1032          | B1032             | D1032          | #10-32 NF-3   | 0.234      | 0.38                |
| 428           | B428              | D428           | 1/4-28 NF-3   | 0.312      | 0.438               |
| 524           | B524              | D524           | 5/16-24 NF-3  | 0.344      | 0.50                |
| 624           | B624              | D624           | 3/8-24 NF-3   | 0.453      | 0.563               |
| 720           | B720              | D720           | 7/16-20 NF-3  | 0.453      | 0.625               |
| 820           | B820              | D820           | 1/2-20 NF-3   | 0.594      | 0.75                |
| 918           | B918              | D918           | 9/16-18 NF-3  | 0.688      | 0.875               |
| 1018          | B1018             | D1018          | 5/8-18 NF-3   | 0.75       | 0.938               |
| 1216          | B1216             | D1216          | 3/4-16 NF-3   | 0.875      | 1.063               |
| 1414          | B1414             | D1414          | 7/8-14 NF-3   | 1.00       | 1.25                |
| 1614          | B1614             | D1614          | 1-14 NF-3     | 1.125      | 1.438               |
| 1812          | B1812             | D1812          | 1 1/8-12 NF-3 | 1.25       | 1.625               |
| 2012          | B2012             | D2012          | 1 1/4-12 NF-3 | 1.438      | 1.813               |
| COARSE THREAD |                   |                |               |            |                     |
| 440           | B440              | D440           | #4-40 NC-2    | 0.141      | 0.25                |
| 632           | B632              | D632           | #6-32 NC-2    | 0.172      | 0.312               |
| 832           | B832              | D832           | #8-32 NC-2    | 0.234      | 0.344               |

All dimensions in inches.  
 (a) Minimum A not specified. Limited only by strength requirement of specification. For definition and application of drawing status note see ANA bulletin No. 337. Add "A" after dash number for nuts having nonmetallic inserts. MS20365 parts and AN365 parts of like dash numbers are universally, functionally and dimensionally interchangeable. Add "C" after dash number for nuts fabricated entirely from metal.  
 Examples of part nos.: AN365D428 = 1/4-28 steel nut, either all metal or with nonmetallic insert.  
 AN365D428 = 1/4-28 aluminum alloy nut, either all metal or with nonmetallic insert.  
 AN365B428A = 1/4-28 copper base alloy nut with nonmetallic insert  
 AN365-428C = 1/4-28 steel nut, all metal.  
 For installation instructions see drawing AND10068.

PROCUREMENT SPECIFICATION  
**AN-N5**  
**NUT - SELF LOCKING, STANDARD PART AN365**  
 TITLE  
**STANDARD PART AN365**  
 CLASSIFICATION



THREAD T SPECIFICATION  
MIL-S-7742 CSK 110° TO  
OD OF THREAD BOTH SIDES



| AN PART NO. | THREAD T       | Ultimate Tensile Strength, Min., Lbs. | A     |                  | B APPROX | H     |
|-------------|----------------|---------------------------------------|-------|------------------|----------|-------|
| AN315-3     | #10-32 UNF-3B  | 2210                                  | .375  | +0.002<br>-0.000 | .438     | .141  |
| AN316-4     | 1/4-28 UNF-3B  | 2,040                                 | 0.438 | +0.002<br>-0.010 | 0.50     | 0.125 |
| AN316-5     | 5/16-24 UNF-3B | 3,250                                 | 0.50  | +0.002<br>-0.010 | 0.578    | 0.156 |
| AN316-6     | 3/8-24 UNF-3B  | 5,050                                 | 0.563 | +0.002<br>-0.010 | 0.656    | 0.188 |
| AN316-7     | 7/16-20 UNF-3B | 6,800                                 | 0.625 | +0.002<br>-0.011 | 0.719    | 0.219 |
| AN316-8     | 1/2-20 UNF-3B  | 9,250                                 | 0.75  | +0.002<br>-0.012 | 0.875    | 0.25  |
| AN316-9     | 9/16-18 UNF-3B | 11,800                                | 0.875 | +0.002<br>-0.012 | 1.016    | 0.281 |
| AN316-10    | 5/8-18 UNF-3B  | 15,050                                | 1.00  | +0.002<br>-0.014 | 1.156    | 0.313 |
| AN316-12    | 3/4-16 UNF-3B  | 22,000                                | 1.125 | +0.002<br>-0.016 | 1.297    | 0.375 |
| AN316-14    | 7/8-14 UNF-3B  | 30,000                                | 1.313 | +0.002<br>-0.017 | 1.516    | 0.438 |
| AN316-18    | 1 -12 UNF-3B   | 40,350                                | 1.50  | +0.002<br>-0.019 | 1.379    | 0.50  |

All dimensions in inches. Unless otherwise specified, tolerances: ± 0.015; angles ± 1°

**MATERIAL:** Steel and corrosion-resistant steel. See procurement specification.

**FINISH:** Steel-cadmium plate in accordance with QQ-P-416, type II, class 2. Corrosion-resistant steel – passivate in accordance with QQ-P-35

Add "C" before dash number for corrosion-resistant steel nuts.

Add "R" after dash number for right-hand thread.

Add "L" after dash number for left-hand thread.

Examples of part nos.:

AN316-7R = nut, steel, 7/16-20 UNF-3, right-hand thread.

AN316-7L = nut, steel, 7/16-20 UNF-3, left-hand thread.

AN316C7L = nut, corrosion-resistant steel, 7/16-20 UNF-3, left-hand thread.

For sizes smaller than 1/4, use nut AN315.

PROCUREMENT  
SPECIFICATION

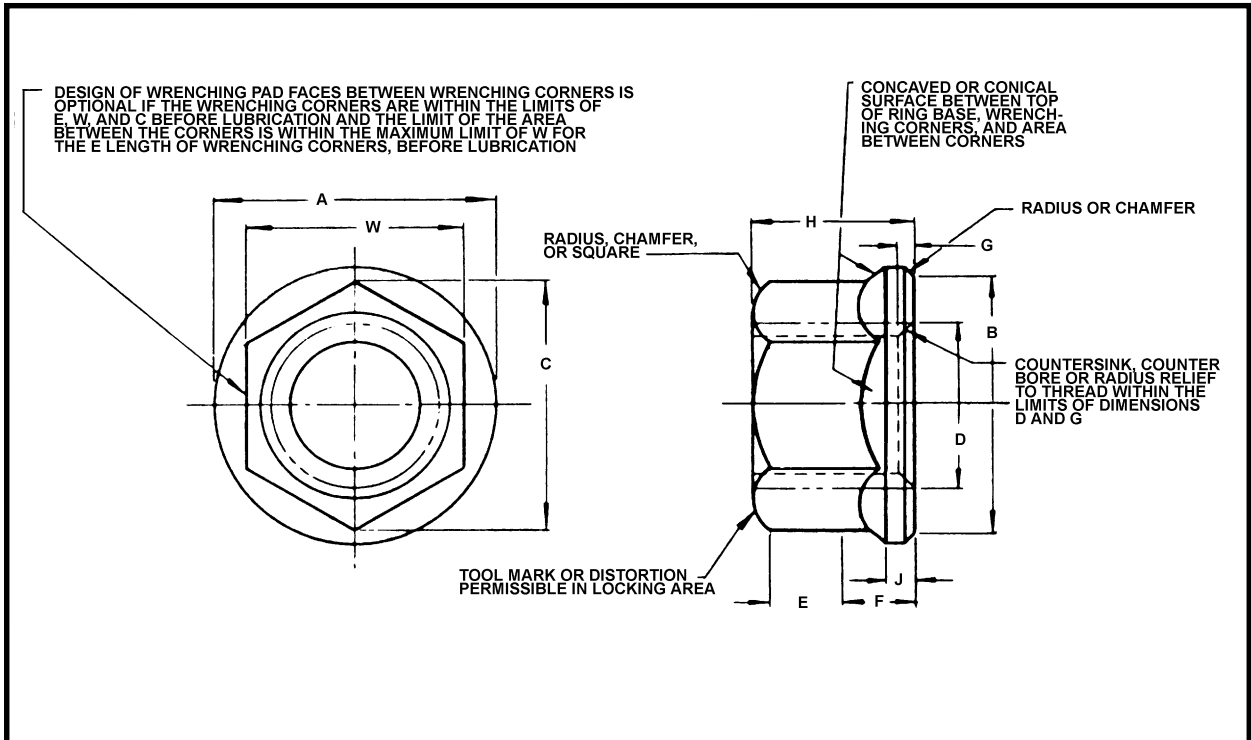
FF-N-836

TITLE

NUT, JAM, HEXAGON

CLASSIFICATION

STANDARD PART  
AN316



| SIZE DASH NO. | THREAD <sup>a</sup> | A     | B    | C    | D    |      | E <sup>d</sup> | F <sup>e</sup> | G    |      | H    |      | J    | W <sup>c</sup> |      | X <sup>b</sup> | AXIAL <sup>f</sup> STRENGTH MIN, lb | WEIGHT LB/100 MAX | WRENCHING TORQUE TEST <sup>f</sup> VALUE, in-lb |
|---------------|---------------------|-------|------|------|------|------|----------------|----------------|------|------|------|------|------|----------------|------|----------------|-------------------------------------|-------------------|---|
|               |                     |       |      |      | MAX  | MIN  |                |                | MAX  | MIN  | MAX  | MIN  |      | MAX            | MIN  |                |                                     |                   |   |
| 02            | 2-56 UNC-3B         | .167  | .137 | .138 | .106 | .086 | .045           | .019           | .021 | .004 | .100 | .080 |      | .127           | .122 | .0025          | 660                                 | .020              | 5   |
| 04            | 4-40 UNC-3B         | .206  | .176 | .171 | .142 | .112 | .050           | .028           | .027 | .005 | .125 | .103 | .010 | .158           | .150 |                | 1,110                               | .050              | 10  |
| 06            | 6-32 UNC-3B         | .244  | .214 | .207 | .168 | .138 | .055           | .039           |      |      | .141 | .115 |      | .190           | .181 |                | 1,670                               | .080              | 20  |
| 08            | 8-32 UNC-3B         | .290  | .260 | .244 | .194 | .164 | .060           | .041           | .031 | .006 | .188 | .125 |      | .221           | .213 | .003           | 2,490                               | .150              | 30  |
| 3             | 10-32 UNF-3B        | .330  | .290 | .277 | .220 | .190 | .065           | .043           |      |      | .154 | .105 | .015 | .252           | .243 |                | 3,470                               | .180              | 60  |
| 4             | 1/4-28 UNF-3B       | .420  | .386 | .347 | .280 | .250 | .090           | .057           | .036 | .007 | .219 | .204 | .019 | .316           | .304 |                | 6,200                               | .350              | 150   |
| 5             | 5/16-24 UNF-3B      | .520  | .482 | .419 | .342 | .312 | .120           | .077           |      |      | .266 | .251 | .023 | .378           | .367 |                | 9,820                               | .600              | 330   |
| 6             | 3/8-24 UNF-3B       | .620  | .575 | .491 | .405 | .375 | .125           | .089           | .042 | .008 | .282 | .267 | .030 | .440           | .430 |                | 15,200                              | .800              | 530   |
| 7             | 7/16-20 UNF-3B      | .708  | .680 | .562 | .467 | .437 | .160           |                |      |      | .328 | .313 | .035 | .504           | .494 | .004           | 20,600                              | 1.30              | 825   |
| 8             | 1/2-20 UNF-3B       | .814  | .786 | .633 | .530 | .500 | .225           |                |      |      | .410 | .350 | .040 | .566           | .556 |                | 27,500                              | 2.10              | 1,125   |
| 9             | 9/16-18 UNF-3B      | .912  | .874 | .775 | .592 | .562 | .320           |                |      |      | .480 | .420 | .045 | .692           | .680 |                | 34,800                              | 3.60              | 1,550   |
| 10            | 5/8-18 UNF-3B       | 1.014 | .976 | .846 | .655 | .625 | .365           |                |      |      | .550 | .490 | .050 | .755           | .743 |                | 43,600                              | 4.50              | 2,000   |

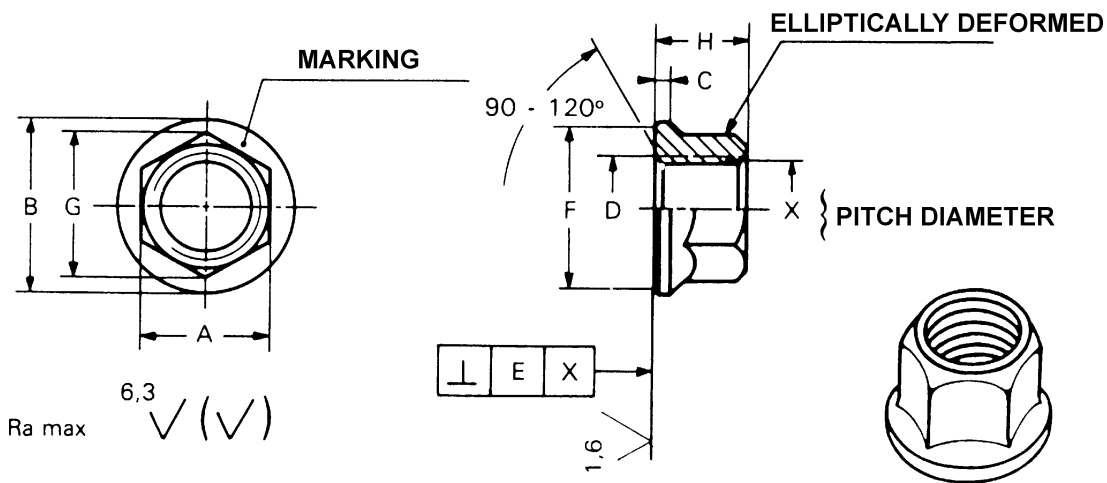
All dimensions in inches; nuts dash size 7 and larger use NAS1291 prefix, stainless steel nuts use NAS 1291C designation.

- (a) Threads in accordance with MIL-S-7742 before lubrication.
- (b) Bearing surface shall be square with pitch diameter within X when measured in accordance with MIL-N-25027.
- (c) Dimension across flats includes deformation of locking device.
- (d) Minimum length of each wrenching corner.
- (e) Minimum distance from the washer face of the nut to the beginning of the minimum length E of each wrenching corner.
- (f) For alloy steel nuts. For A286 nuts multiply these values by .694

**MATERIAL:** Alloy steel or A286 corrosion resistant steel (NAS 1291C designation)  
**PLATING:** Plain cadmium-plated nuts in accordance with QQ-P-416, Type II, Class 3. Dry film lubricated nuts in accordance with QQ-P-416. NAS 1291C designation nuts: silver plate per AMS2410.  
**LUBRICANT:** Dry film lubricant approved in accordance with MIL-N-25027. Other lubricants soluble in the cleaner specified in procurement specification. For USAF applications, nuts treated with dry film lubricants shall not be utilized in integral fuel tanks.  
**HARDNESS:** Rockwell C49 minimum. (alloy steel nuts)

Break all sharp edges and remove all hanging burrs and slivers which might become dislodged under usage. Surface roughness in accordance with MIL-STD-10. Unless otherwise specified the surface roughness shall not exceed 125 uin. These nuts shall be used in accordance with the limitations of MS33588.

|   |  |   |
|---|--|---|
| PROCUREMENT SPECIFICATION<br><b>MIL-N-25027</b> | TITLE<br><b>NUTS, SELF LOCKING, 450°F, REDUCED HEXAGON, REDUCED HEIGHT, RING BASE, NON-CORROSION RESISTANT STEEL</b> | CLASSIFICATION<br><b>STANDARD PART MS21042/NAS 1291</b> |
|---|--|---|



All dimensions in millimeters

| PART NUMBER | D<br>THREAD    | A<br>h 12 | B<br>max | C<br>min | E<br>max | F<br>min | G<br>min | H<br>max | Wt, kg<br>per 100 |
|-------------|----------------|-----------|----------|----------|----------|----------|----------|----------|-------------------|
| 3PH135M     | M3x0.50-4H5H   | 4         | 6        | 0.4      | 0.06     | 5.3      | 4.2      | 3        | 0.028             |
| 4PH135M     | M4x0.70-4H5H   | 5         | 7.4      | 0.5      | 0.08     | 6.7      | 5.3      | 4        | 0.050             |
| 5PH135M     | M5x0.80-4H5H   | 6         | 9.1      | 0.6      | 0.08     | 8.3      | 6.5      | 5        | 0.080             |
| 6PH135M     | M6x1.00-4H5H   | 7         | 10.6     | 0.7      | 0.08     | 9.8      | 7.6      | 5.4      | 0.115             |
| 8PH135M     | M8x1.25-4H5H   | 10        | 13.6     | 1.1      | 0.09     | 12.8     | 10.9     | 7        | 0.315             |
| 8100PH135M  | MJ8x1.00-4H5H  | 10        | 13.6     | 1.1      | 0.09     | 12.8     | 10.9     | 7        | 0.315             |
| 10PH135M    | M10x1.50-4H5H  | 12        | 16.8     | 1.3      | 0.10     | 15.8     | 13.2     | 8.5      | 0.475             |
| 10125PH135M | MJ10x1.25-4H5H | 12        | 16.8     | 1.3      | 0.10     | 15.8     | 13.2     | 8.5      | 0.475             |
| 12PH135M    | M12x1.50-4H5H  | 14        | 19.9     | 2        | 0.13     | 18.8     | 15.5     | 10.5     | 1.000             |
| 12125PH135M | MJ12x1.25-4H5H | 14        | 19.9     | 2        | 0.13     | 18.8     | 15.5     | 10.5     | 1.000             |
| 14PH135M    | M14x1.50-5H    | 16        | 23       | 2        | 0.15     | 21.9     | 17.9     | 12       | 1.180             |

| CODE | MATERIAL | HARDNESS | SURFACE TREATMENT                                    | STRENGTH<br>CLASS @ 20°C | TEMPERATURE<br>CLASS |
|------|----------|----------|--|--------------------------|----------------------|
| 35M  | 35CD4S   | 46-49HRC | Cadmium Plating<br>5 $\mu$ m mini + MOS <sub>2</sub> | 160,000 psi              | 450°F                |

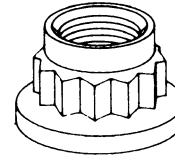
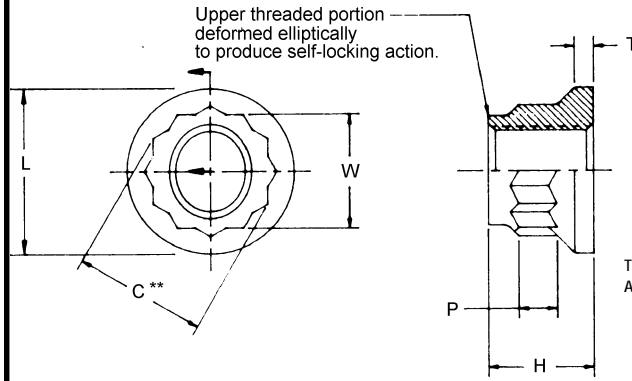
| THREAD               | CODE | PROFILE                  | TOLERANCES               | MARKING | <b>METRIC JETNUTS<br/>PH135</b> |
|----------------------|------|--------------------------|--------------------------|---------|---------------------------------|
| ISO                  | M    | NFL 05220<br>AICMA 0501A | NFL 05224<br>AICMA 2011A | SD      |                                 |
| MJ<br>(08 - 10 - 12) | MJ   | ISO 5855                 |                          | MJ - SD |                                 |

Some sizes available in high temperature (900°F) configuration: A286 material, silver plated.  
Please contact us for details.

# H20 TWELVE-POINT NUT

Same strength as BACN10HR

Material: Alloy steel, heat treated.  
 Finish: Cadmium plated per Fed. Spec. QQ-P-416, Type II plating. Kaylube molybdenum disulfide dry lubricant coated after plating.  
 Procurement Spec: MIL-N-25027, except for axial tensile strength, as tabulated, is equivalent to 220,000 psi, at the pitch of the diameter, and will be obtained when tested on bolts or screws having a minimum tensile strength of 240,000 psi.



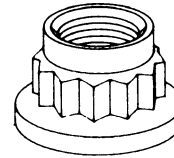
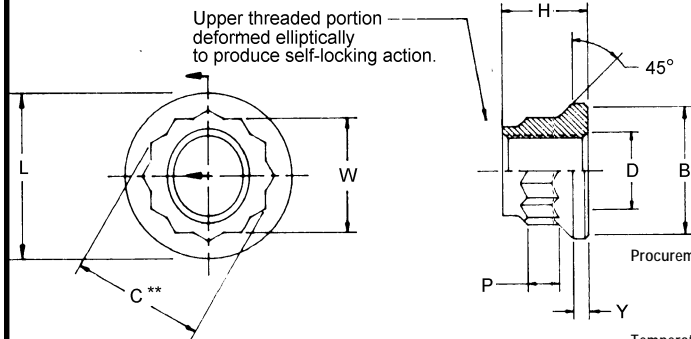
Temperature Range: To 450°F.  
 Application: The H20 series may be used with bolts having tensile strengths through 220,000 psi minimum that require high fatigue life in use. In addition, the increased minimum minor diameter of the H20 threads allow use with bolts having controlled thread root radius per MIL-S-8879. For light weight reduced wrench version, see H23 series.

| PART NUMBERS | THREAD (MIL-S-8879) | C** (MIN) | H (MAX) | L (MAX) | P (MIN) | T (REF) | W**         | BEARING SURFACE SQUARENESS* | AXIAL TENSILE STRENGTH LBS. MIN. | APPROX. WT. LBS./100 |
|--------------|---------------------|-----------|---------|---------|---------|---------|-------------|-----------------------------|----------------------------------|----------------------|
| H20-4        | .2500-28 UNJF-3B    | .491      | .359    | .460    | .100    | .045    | .376-.367   | .003                        | 8900                             | .64                  |
| H20-5        | .3125-24 UNJF-3B    |           | .421    | .560    | .125    | .050    | .439-.430   | .004                        | 14100                            | 1.00                 |
| H20-6        | .3750-24 UNJF-3B    | .581      | .468    | .670    | .155    | .060    | .502-.492   | .005                        | 20800                            | 1.50                 |
| H20-7        | .4375-20 UNJF-3B    | .631      | .531    | .770    | .165    | .075    | .584-.553   |                             | 28300                            | 2.10                 |
| H20-8        | .5000-20 UNJF-3B    | .706      | .578    | .870    | .180    | .080    | .627-.616   | .006                        | 37800                            | 2.80                 |
| H20-9        | .5625-18 UNJF-3B    | .775      | .633    | .950    | .205    | .090    | .690-.679   |                             | 47900                            | 3.60                 |
| H20-10       | .6250-18 UNJF-3B    | .881      | .687    | 1.050   | .235    | .100    | .783-.772   | .006                        | 59900                            | 5.00                 |
| H20-12       | .7500-16 UNJF-3B    | 1.059     | .796    | 1.250   | .310    | .120    | .940-.928   | .009                        | 88900                            | 8.80                 |
| H20-14       | .8750-14 UNJF-3B    | 1.200     | .968    | 1.438   | .345    | .140    | 1.064-1.052 | .010                        | 119000                           | 12.50                |
| H20-16       | 1.0000-14 UNJS-3B   | 1.331     | 1.158   | 1.625   | .385    | .160    | 1.194-1.177 | .011                        | 157000                           | 18.00                |

# H93 TWELVE-POINT NUT

Interchangeable with NAS 1804

Material: Alloy steel, heat treated.  
 Finish: Cadmium plated per Fed. Spec. QQ-P-416, Type II plating. Kaylube molybdenum disulfide dry lubricant coated after plating.

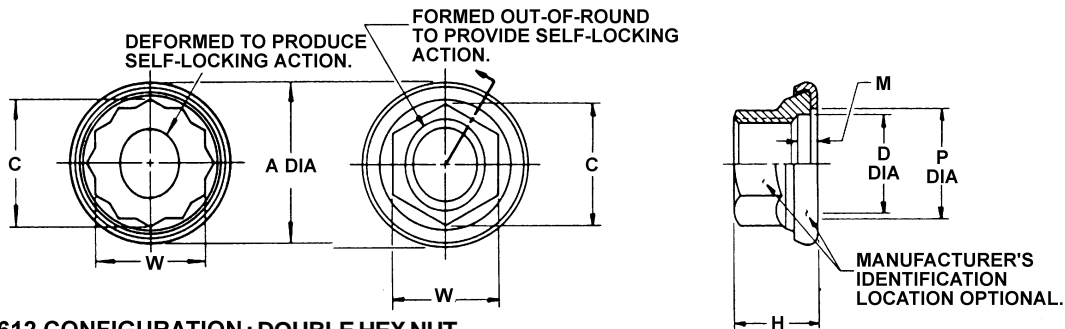


Procurement Spec: MIL-N-25027, except for axial tensile strength, as tabulated, is equivalent to 180,000 psi, at the pitch of the diameter, and will be obtained when tested on bolts or screws having a minimum tensile strength of 200,000 psi.

Temperature Range: To 450°F.  
 Application: For light weight reduced wrench version, see H23 series. For socket wrench that may be used with high strength nuts, see the WS15.

| PART NUMBERS | THREAD (MIL-S-8879) | B (MIN) | C** (MIN) | D           | H (MAX) | L (MAX) | P (MIN) | T (REF) | W**         | BEARING SURFACE SQUARENESS* | AXIAL TENSILE STRENGTH LBS. MIN. |
|--------------|---------------------|---------|-----------|-------------|---------|---------|---------|---------|-------------|-----------------------------|----------------------------------|
| H93-4        | .2500-28 UNJF-3B    | .394    | .348      | .280-.250   | .250    | .434    | .082    | .020    | .313-.305   | .003                        | 7270                             |
| H93-5        | .3125-24 UNJF-3B    | .492    | .420      | .342-.312   | .285    | .532    | .120    | .035    | .378-.367   | .004                        | 11500                            |
| H93-6        | .3750-24 UNJF-3B    | .591    | .490      | .405-.375   | .375    | .631    | .130    | .056    | .439-.430   |                             | 17100                            |
| H93-7        | .4375-20 UNJF-3B    | .689    | .633      | .473-.438   | .438    | .729    | .164    | .069    | .564-.553   | .005                        | 23200                            |
| H93-8        | .5000-20 UNJF-3B    | .788    | .704      | .535-.500   | .500    | .828    | .180    | .074    | .627-.616   |                             | 30900                            |
| H93-9        | .5625-18 UNJF-3B    | .886    | .775      | .597-.562   | .562    | .928    | .230    | .079    | .690-.679   | .006                        | 39100                            |
| H93-10       | .6250-18 UNJF-3B    | .984    | .846      | .680-.625   | .625    | 1.024   | .250    | .084    | .752-.741   |                             | 49100                            |
| H93-12       | .7500-16 UNJF-3B    | 1.181   | 1.059     | .785-.750   | .750    | 1.221   | .310    | .094    | .940-.928   | .007                        | 71000                            |
| H93-14       | .8750-14 UNJF-3B    | 1.378   | 1.200     | .990-.875   | .875    | 1.418   | .350    | .109    | 1.064-1.052 | .008                        | 97000                            |
| H93-16       | 1.0000-14 UNJS-3B   | 1.575   | 1.334     | 1.035-1.000 | 1.000   | 1.625   | .400    | .122    | 1.190-1.177 | .009                        | 126000                           |

# 6 POINT CAPTIVE WASHER



-9 THRU -1612 CONFIGURATION : DOUBLE HEX NUT

-06 THRU -8 CONFIGURATION: HEX NUT

| PART NO.    | THREADS<br>PER MIL-S-8879 | A<br>MAX | C<br>MIN | D              | H<br>MAX | M            | P<br>MAX | W              | AXIAL<br>TENSILE<br>STRENGTH<br>LB MIN | APPROX.<br>WEIGHT<br>LBS/100 |
|-------------|---------------------------|----------|----------|----------------|----------|--------------|----------|----------------|--|------------------------------|
| ▲KFN542 -06 | .1380-32UNJC-3B           | .320     | .207     | .176<br>.171   | .200     | .097<br>.087 | .181     | .189<br>.181   | 13,000                                 | .10                          |
| -08         | .1640-32UNJC-3B           | .340     | .242     | .202<br>.197   | .240     | .097<br>.087 | .207     | .220<br>.212   | 2,800                                  | .17                          |
| -836        | .1640-36UNJF-3B           | .340     | .242     | .202<br>.197   | .220     | .097<br>.087 | .207     | .220<br>.212   | 2,800                                  | .17                          |
| -3          | .1900-32UNJF-3B           | .363     | .277     | .228<br>.223   | .243     | .097<br>.087 | .233     | .251<br>.243   | 3,470                                  | .24                          |
| -4          | .2500-28UNJF-3B           | .460     | .348     | .288<br>.283   | .280     | .097<br>.087 | .293     | .313<br>.306   | 6,200                                  | .47                          |
| -5          | .3125-24UNJF-3B           | .560     | .419     | .352<br>.347   | .340     | .097<br>.087 | .357     | .376<br>.367   | 9,800                                  | .78                          |
| -6          | .3750-24UNJF-3B           | .660     | .491     | .417<br>.412   | .355     | .097<br>.087 | .422     | .439<br>.430   | 13,000                                 | .93                          |
| -7          | .4375-20UNJF-3B           | .760     | .561     | .484<br>.479   | .400     | .097<br>.087 | .489     | .502<br>.492   | 18,000                                 | 1.44                         |
| -8          | .5000-20UNJF-3B           | .860     | .631     | .551<br>.546   | .430     | .097<br>.087 | .556     | .564<br>.553   | 24,000                                 | 1.94                         |
| -9          | .5625-18UNJF-3B           | 1.005    | .700     | .640<br>.635   | .530     | .115<br>.105 | .645     | .627<br>.616   | 33,000                                 | 3.08                         |
| -10         | .6250-18UNJF-3B           | 1.100    | .846     | .710<br>.705   | .575     | .115<br>.105 | .715     | .752<br>.741   | 43,000                                 | 5.00                         |
| -12         | .7500-16UNJF-3B           | 1.310    | .987     | .845<br>.840   | .670     | .125<br>.115 | .850     | .877<br>.865   | 61,000                                 | 7.88                         |
| -14         | .8750-14UNJF-3B           | 1.480    | 1.130    | .985<br>.980   | .770     | .145<br>.135 | .990     | 1.002<br>.990  | 73,900                                 | 11.45                        |
| -1612       | 1.000-12UNJF-3B           | 1.690    | 1.271    | 1.125<br>1.120 | .870     | .165<br>.155 | 1.130    | 1.127<br>1.115 | 85,700                                 | 16.00                        |

**MATERIAL:** Nut — Alloy steel per MIL-S-6049 (8740), MIL-S-5000 (4340), or MIL-S-5626 (4140).  
Washer — Carbon steel.

**HEAT TREAT:** Nut — Rc 39-43 per MIL-H-6875.  
Washer — Rc 40-45.

**FINISH:** KFN542-(\*) — Nut and washer — Cadmium plated per QQ-P-416, Type II, Class 2. (-836 size finish: Cadmium plated per QQ-P-416, Type II, Class 2, plus olive drab chromate finish for identification purposes.)

**PERFORMANCE:** KFS1009, except axial tensile strength as tabulated.

**APPLICATION:** For use on standard to .032 oversize shank bolts.

**PACKAGING:** Parts are normally supplied in bulk packaging. Add "S" after dash number for spindle packaged nuts for use with K-Fast tools (-836 through -5 sizes only). Example: KFN542-3S.

**NOTES:** "C" and "W" dimensions apply before forming self-locking feature.