AIA AEROSPACE INDUSTRIES ASSOCIATION

# NATIONAL AEROSPACE STANDARD

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NAS NATIONAL AEROSPACE STANDARDS

FED. SUPPLY CLASS
5120

1. Scope. This design standard defines the dimensional requirements for Six Lobe, Internal Recess Driver Bits.

2. Applicable documents. The following documents of the issue in effect on date of invitation for bids or request for proposal form a part of this design standard to the extent specified herein:

| | | |
|---|---|---|
| ③ | ~~GGG-W-641~~ | ~~Wrench Socket; (and Sockets, Handles, and Attachments for Socket Wrenches; Hand)~~ |
| | NAS1799 | Bit, Six Lobe Drive, Internal Recess Specification for |
| | NAS1800 | Recess, Six Lobe Drive, Internal Dimensions for Recess and Gages |
| ③ | ASME B107.110 | Socket Wrenches, Handles, and Attachments |

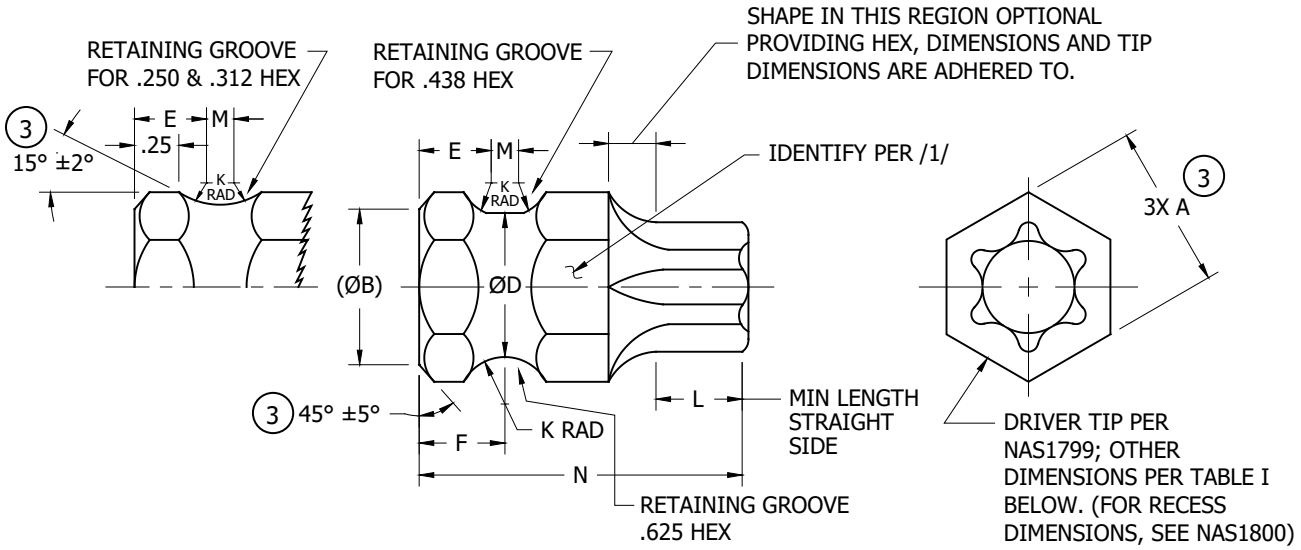



FIGURE 1 – TYPE A

③ TABLE I – TYPE A DIMENSIONS

| DRIVER PART NUMBER | RECESS NUMBER (REF) | A +.000 −.001 | (ØB) | ØD ±.010 | E ±.020 | F ±.020 | K RAD | L MIN | M ±.020 | N ±.12 |
|---|---|---|---|---|---|---|---|---|---|---|
| NAS1798-A4-7 | T7 | .250 | .203 | .188 | .375 | – | .094 | .060 | .062 | 1.25 |
| NAS1798-A4-10 | T10 | .250 | .203 | .188 | .375 | – | .094 | .080 | .062 | 1.25 |
| NAS1798-A4-20 | T20 | .250 | .203 | .188 | .375 | – | .094 | .090 | .062 | 1.25 |
| NAS1798-A4-30 | T30 | .250 | .203 | .188 | .375 | – | .094 | .125 | .062 | 1.25 |
| NAS1798-A5-30 | | .312 | .266 | .250 | .406 | – | .094 | | .062 | 1.25 |
| NAS1798-A4-40 | T40 | .250 | .203 | .188 | .375 | – | .094 | .130 | .062 | 1.25 |
| NAS1798-A5-40 | | .312 | .266 | .250 | .406 | – | .094 | | .062 | 1.25 |
| NAS1798-A5-50 | T50 | .312 | .266 | .250 | .406 | – | .094 | .180 | .062 | 1.25 |
| NAS1798-A7-50 | | .438 | .391 | .344 | .250 | – | .109 | | .047 | 1.25 |
| NAS1798-A7-55 | T55 | .438 | .391 | .344 | .250 | – | .109 | .200 | .047 | 1.25 |
| NAS1798-A10-55 | | .625 | .578 | .531 | – | .344 | .172 | | – | 1.25 |
| NAS1798-A10-60 | T60 | .625 | .578 | .531 | – | .344 | .172 | .300 | – | 1.25 |

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REVISION DATE: APRIL 30, 2019
ISSUE DATE: JUNE 1978

FORM 19-01

| THIRD ANGLE PROJECTION | CUSTODIAN | REVISION |
|---|---|---|
| | NATIONAL AEROSPACE STANDARDS COMMITTEE | 3 |
| PROCUREMENT SPECIFICATION | TITLE | CLASSIFICATION DESIGN STANDARD |
| NAS1799 | **BIT, SIX LOBE DRIVE, INTERNAL RECESS, FOR POWER AND HAND TOOLS** | **NAS1798** |



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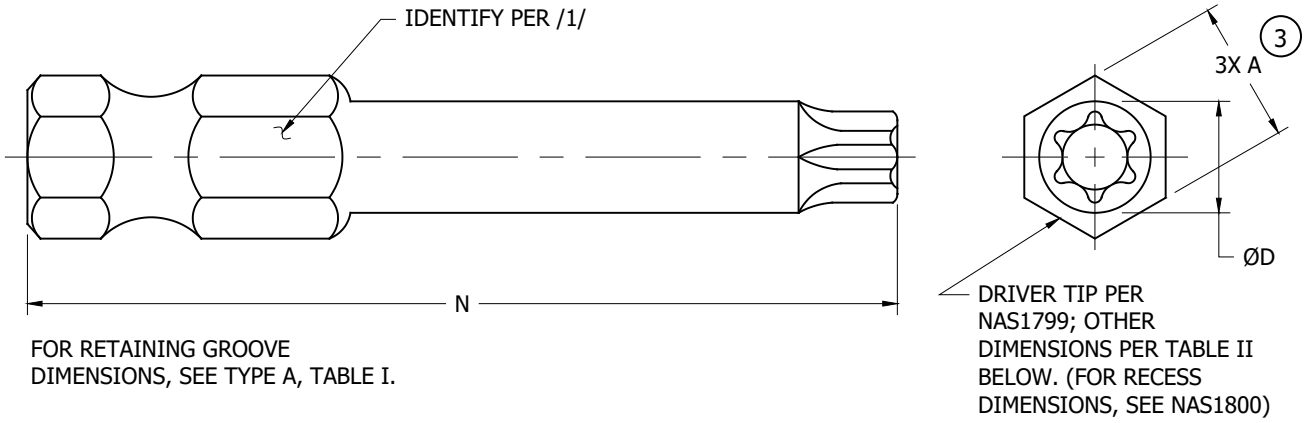
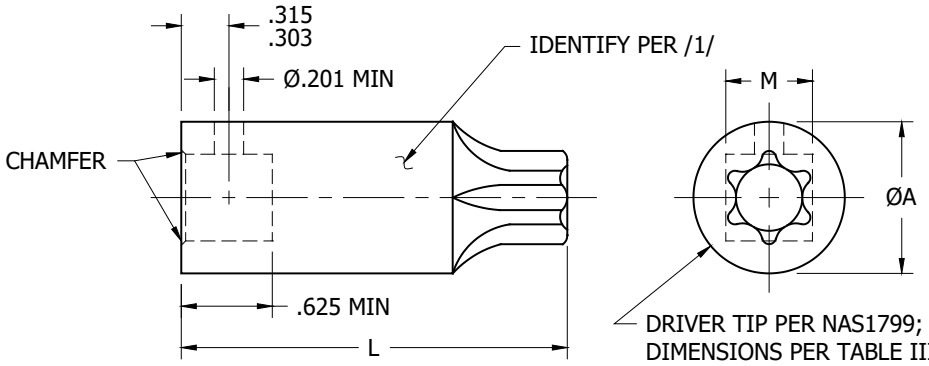



FIGURE 2 – TYPE B

3 TABLE II – TYPE B DIMENSIONS

| DRIVER PART NUMBER | RECESS NUMBER (REF) | A +.000 −.004 | ØD +.000 −.004 | N ±.12 | | | |
|---|---|---|---|---|---|---|---|
| NAS1798-B(/a/)-7 | T7 | .250 | .125 | 1.88 | 2.75 | 3.50 | 6.00 |
| NAS1798-B(/a/)-10 | T10 | .250 | .150 | 1.88 | 2.75 | 3.50 | 6.00 |
| NAS1798-B(/a/)-20 | T20 | .250 | .188 | 1.88 | 2.75 | 3.50 | 6.00 |
| NAS1798-B(/a/)-30 | T30 | .250 | .250 | 1.88 | 2.75 | 3.50 | 6.00 |
| NAS1798-B(/a/)-40 | T40 | .312 | .312 | 1.88 | 2.75 | 3.50 | 6.00 |
| NA81798-B(/a/)-50 | T50 | .438 | .438 | – | 2.75 | 3.50 | 6.00 |
| NAS1798-B(/a/)-55 | T55 | .438 | .438 | – | 2.75 | 3.50 | 6.00 |
| NAS1798-B(/a/)-60 | T60 | .625 | .625 | – | 2.75 | 3.50 | 6.00 |

/a/ Dash numbers indicate driver length "N" in hundredths of an inch. See sheet 4 for examples of part number call out.




CENTERLINE OF "ØA" SHALL BE PARALLEL TO THE CENTERLINE OF THE FEMALE SQUARE DRIVE SOCKET WITHIN .010. SOCKET DIMENSIONS SHALL CONFORM TO "M" (PER TABLE III) AND RELATED DIMENSIONS IN ASME B107.110. 3

FIGURE 3 – TYPE C

3 TABLE III – TYPE C DIMENSIONS

| DRIVER PART NUMBER | RECESS NUMBER (REF) | ØA +.000 −.004 | L ±.12 | M +.000 −.005 |
|---|---|---|---|---|
| NAS1798-C40 | T40 | .750 | 1.50 | .383 |
| NA81798-C50 | T50 | | | |
| NAS1798-C55 | T55 | | | |
| NAS1798-C60 | T60 | .750 | 1.50 | .383 |

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