**Title:** VISU-LOK, FASTENER, BLIND INTERNALLY THREADED, EXTERNAL SLEEVE ALLOY STEEL 100° FLUSH HEAD, SELF LOCKING HIGH STRENGTH

**PART NUMBER:** PLT1000-( )-( )

**CAGE CODE:** ALCOA

**MANUFACTURER'S IDENTIFICATION MARK** “1000” (ARRANGEMENT OPTIONAL)

**DESCRIPTION:**

- **Identification Mark:** MONOGRAm = N Voi-shAN = VS
- **Part Number:** PLT1000-( )-( )

**Dimensions:**

- **Fastener Diameter:**
  - **Part #:** PLT1000-05-( )
  - **THD DIAMMMETER:** 0.3105
  - **DIAMETER MIN:** 0.2996
  - **DIAMETER MAX:** 0.3200

- **Fastener Diameter:**
  - **Part #:** PLT1000-08-( )
  - **THD DIAMETER:** 0.2812
  - **DIAMETER MIN:** 0.2690
  - **DIAMETER MAX:** 0.3030

- **Fastener Diameter:**
  - **Part #:** PLT1000-12-( )
  - **THD DIAMETER:** 0.2190
  - **DIAMETER MIN:** 0.2041
  - **DIAMETER MAX:** 0.2408

**Notes:**

- **GAGE PROT.:** 0.010
- **SHEAR:** 2.180
- **TENSILE: LBS. MIN.:** 3600
- **PRESTRESSING:** 2.158
- **SHEAR:** 2.120
- **TENSILE: LBS. MIN.:** 3600

**Visual Mechanical Lock:**

- **Break-off limits:** (measured from head of nut)
- **Typical installation:**
PROCUREMENT SPEC: ESCBB-2 CLASS I.

MATERIAL:
NUT & SCREW: ALLOY STEEL: 4130 PER AMS-6758, 4140 PER AMS6382 OR AMS6349 OR 8740 PER AMS5322.
SLEEVE: CORROSION RESISTANT STEEL: 303 OR 304 PER AMS-QQ-S-763, AMS639 OR AMS5641.

HEAT TREAT:
NUT & SCREW: HEAT TREAT PER AMS2759. APPROXIMATELY 180,000 - 200,000 PSI TENSILE (HRC 39-43).
SLEEVE: AS REQUIRED FOR PERFORMANCE.

FINISH:
NUT & SCREW: CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2. CADMIUM PLATE PER NAS 672 IS PERMISSIBLE PROVIDED IT IS FOLLOWED BY A DICHROMATE POST TREATMENT PER AMS-QQ-P-416.
SLEEVE: PASSIVATE PER AMS2700. CADMIUM PLATE PER AMS-QQ-P-416, TYPE I, CLASS 3.

LUBRICANT:
LUBRICANTS LISTED BELOW MAY BE APPLIED TO ANY OR ALL COMPONENTS IF REQUIRED FOR PERFORMANCE.

NUT: WMM CARBO-WAX, PARAFFIN WAX AND/OR CETYL ALCOHOL PER AS87132.
SCREW & SLEEVE: DRY FILM LUBE PER AS5272 TYPE I OR MIL-PRF-81329, WMM CARBO-WAX, PARAFFIN WAX AND OR CETYL ALCOHOL PER AS87132.

PART CODE & EXAMPLE:
PLT1000 - 05 - 05
GRIP LENGTHS IN 1/16THS
NOMINAL BODY DIAMETER AS TABULATED
BASIC PART NUMBER, SELF LOCKING BLIND FASTENER

GENERAL NOTES:
1. OUTSIDE DIAMETER OF HEAD OF SCREW AND OUTSIDE DIAMETER OF SLEEVE SHALL NOT EXCEED MAXIMUM "D" DIAMETER.
2. CONCENTRICITY OF NUT HEAD CONICAL SURFACE TO "D" DIAMETER SHALL BE WITHIN .005" T.I.R., EXCEPT OVER INDENTATIONS.
3. REMOVE ALL LOOSE OR HANGING BURRS.
5. MANUFACTURER'S IDENTIFICATION:
LETTER "N" DESIGNATES MONOGRAM AEROSPACE FASTENERS.
LETTERS "VS" DESIGNATE VOI-SHAN.
6. HEAD MARKINGS ON NUT DEPRESSED .010" MAX.
7. THE PRODUCT DESCRIBED BY THIS DRAWING IS "EQUIVALENT TO" AND "INTERCHANGEABLE WITH" THE MANUFACTURER'S PRODUCT LISTED BELOW EXCEPT THE HEAD IDENTIFICATION MARKINGS AND SELF-LOCKING FEATURE. EXISTING STOCK MAY BE REWORKED TO INCORPORATE THE LOCK. WHEN THESE REWORKED FASTENERS ARE SUPPLIED, THE HEAD IDENTIFICATION MAY BE AS SHOWN BELOW:
MONOGRAM...: WF164-WF375 SERIES (MARKING: "N" OVERSTAMPED "L" OR "SL").
VOI-SHAN...: BAAF SERIES (MARKING: "VS", "A", AND "SL").
8. STANDARD FINISHES AND LUBES ARE SHOWN ABOVE. REFER TO ESCBB-4 FOR SPECIAL FINISHES AND/OR LUBES, IF REQUIRED.
9. HALF-GRIP SIZES MAY BE ORDERED BY ADDING (.5) TO THE GRIP DASH NUMBERS.
EXAMPLE: PLT1000-06-4.5 INDICATES A NOMINAL GRIP LENGTH OF 4.5 SIXTEENTHS = 0.281".
THE GRIP RANGE FOR THESE HALF-GRIP SIZES WILL BE NOMINAL GRIP +.031"/-.030".
EXCEPT: THE GRIP RANGE FOR -.5 GRIP SHALL BE MAX GRIP = 0.125", MIN GRIP = 0.078".
THE BASIC "G" DIMENSION WILL BE NOMINAL GRIP +.031" AND THE OVERALL SCREW LENGTH "L" DIMENSION MAY VARY AT MANUFACTURER'S OPTION.
STANDARD GRIP LENGTHS ARE AS TABULATED, SHORTER OR LONGER GRIPS THAN THOSE LISTED MAY BE AVAILABLE AS SPECIALS. ON GRIP LENGTHS SHORTER THAN THOSE LISTED, THE BREAKOFF LIMITS AND PREVAILING TORQUES AS TABULATED DO NOT APPLY.
12. DIMENSIONS "A", "A'", AND "H" ARE FOR ENGINEERING REFERENCE PURPOSES ONLY AND ARE NOT TO BE USED FOR INSPECTION PURPOSES. THESE DIMENSIONS ARE THEORETICAL VALUES DERIVED FROM "D", "S", "V", "W" AND HEAD ANGLE DIMENSIONS.
13. DIMENSIONS ARE EXCLUSIVE OF LUBRICATION.