

SECOND	G GRIP	GRIP RANGE		L REF.					
DASH NUMBER				PLT114					
		MIN	MAX	-05-()	-06-()	-08-()	-10-()	-12-()	
-	-	-	-	-	-	-	-	-	
-02	.156	.094	.156	.733	.853	-	-	-	
-03	.219	.157	.219	.795	.916	.944	-	-	
-04	.281	.220	.281	.858	.978	1.006	1.158	1.242	
-05	.344	.282	.344	.920	1.041	1.069	1.221	1.304	
-06	.406	.345	.406	.983	1.103	1.131	1.283	1.367	
-07	.469	.407	.469	1.045	1.166	1.194	1.346	1.429	
-08	.531	.470	.531	1.108	1.228	1.256	1.408	1.492	
-09	.594	.532	.594	1.170	1.291	1.319	1.471	1.554	
-10	.656	.595	.656	1.233	1.353	1.381	1.533	1.617	
-11	.719	.657	.719	1.295	1.416	1.444	1.596	1.679	
-12	.781	.720	.781	1.358	1.478	1.506	1.658	1.742	
-13	.844	.782	.844	1.420	1.541	1.569	1.721	1.804	
-14	.906	.845	.906	1.483	1.603	1.631	1.783	1.867	
-15	.969	.907	.969	1.545	1.666	1.694	1.846	1.929	
-16	1.031	.970	1.031	1.608	1.728	1.756	1.908	1.992	

.2590

.3095

.3725

.152

.3120 .3110

.3745 .3735

.423

.510

.102

.134

.160

.384

.427

.516

.325

.390

.470

.0409 .0357

.040

.015

.020

.023

.5389 .5385

.6532 .6528

.3150

.3780 .3750

SECOND	G GRIP	GRIP RANGE		L REF.					
DASH NUMBER				PLT114					
		MIN	MAX	-05-()	-06-()	-08-()	-10-()	-12-()	
-17	1.094	1.032	1.094	NOT AVAILABLE IN-05 DIAMETER	1.791	1.819	1.971	2.054	
-18	1.156	1.095	1.156		1.853	1.881	2.033	2.117	
-19	1.219	1.157	1.219		1.916	1.944	2.096	2.179	
-20	1.281	1.220	1.281		1.978	2.006	2.158	2.242	
-21	1.344	1.282	1.344		2.041	2.069	2.221	2.304	
-22	1.406	1.345	1.406		2.103	2.131	2.283	2.367	
-23	1.469	1.407	1.469		2.166	2.194	2.346	2.429	
-24	1.531	1.470	1.531		2.228	2.256	2.408	2.492	
-25	1.594	1.532	1.594		2.291	2.319	2.471	2.554	
-26	1.656	1.595	1.656		2.353	2.381	2.533	2.617	
-27	1.719	1.657	1.719		2.416	2.444	2.596	2.679	
-28	1.781	1.720	1.781		2.478	2.506	2.658	2.742	
-29	1.844	1.782	1.844		2.541	2.569	2.721	2.084	
-30	1.906	1.845	1.906		2.603	2.631	2.783	2.867	
-31	1.969	1.907	1.969		2.666	2.694	2.846	2.929	
-32	2.031	1.970	2.031		2.728	2.756	2.908	2.992	

DRAWING NO:

▲ "G" TOLERANCE: FOR -05 AND -06 SIZES +.030/-.010; FOR -08 & -10 SIZES +.040/-.010; FOR -12 SIZES +.050/- .010.



PLT114-08-()

PLT114-10-()

PLT114-12-()

.635 .626

.577

.696

.3115

.3740

3423 SOUTH GARFIELD AVENUE COMMERCE, CALIFORNIA 90040 (323) 722-4760 FAX (323) 727-1029

VISU-LOK, FASTENER, BLIND INTERNALLY THREADED, EXTERNAL SLEEVE **ALLOY STEEL** 100° FLUSH HEAD, SELF LOCKING (GROUND SHANK)

PLT114-()-() DRAWN BY: **G.MARTINEZ** 

07-10-13 CHECKED DATE: APPROVED BY:

TITLE:

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3.5

4.0

+.010

-.083

+.010 -.093

9000

12000

19500

2100

3600

5600



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PROCUREMENT SPEC: ESCBB2 CLASS I.

ALLOY STEEL: 4130 PER AMS-S-6758, 4140 PER AMS6382 OR AMS6349 OR 8740 PER AMS6322. MATERIAI: **NUT & SCREW:** 

> SLEEVE: CORROSION RESISTANT STEEL: 303 OR 304 PER AMS-QQ-S-763, AMS5639 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: CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2. CADMIUM PLATE PER NAS672 IS PERMISSIBLE NUT & SCREW:

PROVIDED IT IS FOLLOWED BY A DICHROMATE POST TREATMENT PER AMS-QQ-P-416.

SI FFVF: 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.

WWM CARBO-WAX, PARAFFIN WAX AND/OR CETYL ALCOHOL PER AS87132.

DRY FILM LUBE PER AS5272 TYPE I OR MIL-PRF-81329, WWM CARBO-WAX, PARAFFIN WAX AND/OR SCREW & SLEEVE:

CETYL ALCOHOL PER AS87132

PART CODE & EXAMPLE:

PLT114 - 05 - 05 GRIP LENGTHS IN 1/16THS NOMINAL BODY DIAMETER IN 1/32NDS BASIC PART NUMBER, SELF LOCKING BLIND FASTENER

## **GENERAL NOTES:**

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/12.

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OUTSIDE DIAMETER OF HEAD OF SCREW AND OUTSIDE DIAMETER OF SLEEVE SHALL NOT EXCEED MAXIMUM "D" DIAMETER. 1.

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.

NUT:

LOCKING FEATURE CONSISTS OF THREE (3) INDENTATIONS LOCATED 120° APART ON THE PERIPHERY OF THE NUT COMPONENT AND APPROXIMATELY .040" ABOVE THE INTERSECTION OF THE NUT NOSE ANGLE AND O.D. (MEAN GRIP OF FASTENER).

MANUFACTURER'S IDENTIFICATION:

LETTER "N" DESIGNATES MONOGRAM AEROSPACE FASTENERS.

LETTERS "VS" DESIGNATE VOI-SHAN.

6. HEAD MARKINGS ON NUT DEPRESSED .010" MAX.

> THE PRODUCT DESCRIBED BY THIS DRAWING IS "EQUIVALENT TO" AND "INTERCHANGEABLE WITH" THE MANUFACTURER'S PRODUCT LISTED BELOW EXCEPT FOR 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...: FFG164-FFG375 SERIES (MARKING: "-" AND/OR "N" OVERSTAMPED "L" OR "SL").
VOI-SHAN...: BAGAF SERIES (MARKING: "VS", "AG", AND "SL"; NUT HEAD MAYBE COLORED ORANGE).

STANDARD FINISHES AND LUBES ARE SHOWN ABOVE. REFER TO ESCBB-4 FOR SPECIAL FINISHES AND/OR LUBES, IF REQUIRED.

HALF-GRIP SIZES MAY BE ORDERED BY ADDING (.5) TO THE GRIP DASH NUMBERS.

**EXAMPLE** PLT114-06-4.5 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"

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.

"GROUND SHANK VISU-LOKS SHOULD NOT BE USED, EXCEPT WITH CONSIDERABLE CAUTION. IN APPLICATIONS WHICH EXCEED .0005 INTERFERENCE FIT GROUND SHANK VISU-LOKS WILL PERFORM SATISFACTORILY WHEN INSTALLED IN THE TABULATED HOLE SIZES.

DISTORTION OF "D" DIAMETER SHALL NOT PREVENT INSERTION OF THE FASTENER INTO A RING GAUGE OF LENGTH EQUAL TO ONE DIAMETER AND DIAMETER EQUAL TO MAXIMUM "D" MAX + .001". FORCE FOR INSERTION SHALL NOT EXCEED FIVE (5) POUNDS (22.23 NEWTONS).

13. DIMENSIONS ARE EXCLUSIVE OF LUBRICATION.

> 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", "M", "W" AND HEAD ANGLE DIMENSIONS.



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PLT114-()-() 07-10-13 **G.MARTINEZ** APPROVED BY CHECKED DATE MONOGRAM 14-0652

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