

PART NUMBER	NOM DIA.	THEO DIA.	A' DIA. MIN.	C MAX.	D DIA.	F DRIVING FLATS	H REF.	J DIA. MAX.	K MAX.	M GAGE PROT.	R RAD.	S MAX.	W GAGE DIA.	HOLE SIZE	BREAK-OFF LIMITS	PREVAILING TORQUE IN. LBS. MIN.	DOUBLE SHEAR STRENGTH LBS. MIN.	TENSILE STRENGTH LBS. MIN.
PLT1010-5(-)	.1635	.2612 .2564	.241	.285	.1645 .1625	.086 .081	.040	.244	.257	.0265 .0237	.030 .010	.010	.1992 .1990	.168 .165	+0.020 -.068	1.0	3150	750
PLT1010-6(-)	.1980	.3016 .2966	.270	.320	.1990 .1970	.104 .099	.047	.300	.288	.0246 .0218	.030 .015	.015	.2440 .2438	.202 .199	+0.015 -.073	1.5	4600	1250
PLT1010-8(-)	.2590	.3948 .3898	.363	.355	.2600 .2580	.135 .130	.061	.384	.320	.0271 .0242	.030 .015	.015	.3314 .3312	.263 .260	+0.010 -.078	2.5	7900	1900
PLT1010-10(-)	.3105	.4739 .4689	.442	.440	.3115 .3095	.152 .147	.068	.427	.396	.0296 .0266	.040 .020	.015	.4047 .4045	.315 .312	+0.010 -.083	3.5	11350	3250
PLT1010-12(-)	.3735	.5604 .5554	.529	.525	.3745 .3725	.185 .180	.078	.516	.473	.0321 .0290	.040 .020	.015	.4854 .4852	.378 .375	+0.010 -.093	4.0	16450	5050

SECOND DASH NUMBER	G GRIP	GRIP RANGE		L REF.				
		MIN	MAX	PLT1010				
				-5(-)	-6(-)	-8(-)	-10(-)	-12(-)
-	-	-	-	-	-	-	-	-
-2	.156	.094	.156	.733	.853	-	-	-
-3	.219	.157	.219	.795	.916	.944	-	-
-4	.281	.220	.281	.858	.978	1.006	1.158	1.242
-5	.344	.282	.344	.920	1.041	1.069	1.221	1.304
-6	.406	.345	.406	.983	1.103	1.131	1.283	1.367
-7	.469	.407	.469	1.045	1.166	1.194	1.346	1.429
-8	.531	.470	.531	1.108	1.228	1.256	1.408	1.492
-9	.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

SECOND DASH NUMBER	G GRIP	GRIP RANGE		L REF.				
		MIN	MAX	PLT1010				
				-5(-)	-6(-)	-8(-)	-10(-)	-12(-)
-17	1.094	1.032	1.094	NOT AVAILABLE IN -5 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	2.804
-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

▲ "G" TOLERANCE: FOR -5 AND -6 SIZES +.030/- .010; FOR -8 AND -10 SIZES +.040/- .010; FOR -12 SIZES +.050/- .010.

**MONOGRAM AEROSPACE FASTENERS**  
a TriMas company  
3423 SOUTH GARFIELD AVENUE  
COMMERCE, CALIFORNIA 90040  
(323) 722-4760 FAX (323) 727-1029

TITLE:

VISU-LOK, FASTENER, BLIND  
INTERNALLY THREADED, EXTERNAL SLEEVE  
TITANIUM  
100° REDUCED FLUSH HEAD, SELF LOCKING  
75 KSI SHEAR

DRAWING NO:

PLT1010( )-( )-( )

DRAWN BY:

B. GEE

DRAWN DATE:

09-21-13

APPROVED BY:

CHECKED DATE:

PROPRIETARY AND CONFIDENTIAL:

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02/05/14

REV:

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SHEET 1 OF 2



PROCUREMENT SPEC: ESCBB-9, CLASS I, EXCEPT AS SPECIFIED HEREIN.

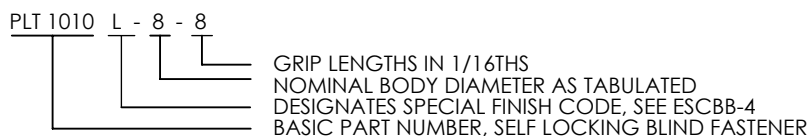
MATERIAL: NUT & SCREW: 6AL-4V TITANIUM PER AMS4928 OR AMS4967.  
SLEEVE: CORROSION RESISTANT STEEL.

HEAT TREAT: NUT & SCREW: HEAT TREAT PER MIL-H-81200 MAX. HYDROGEN 125 PPM.  
SLEEVE: AS REQUIRED FOR PERFORMANCE.

FINISH:  $\triangle 7$  " - " NUT & SCREW: NONE.  
SLEEVE: PASSIVATE PER MIL-S-5002 (QQ-P-35).  
" L " NUT: ALUMINUM COAT (.0002 - .0007) THICK PER NAS4006.  
SLEEVE: PASSIVATE PER AMS-QQ-P-35 (MIL-S-5002) ALUMINUM COAT (.0002 - .0007 THICK) PER NAS4006.  
SCREW: NONE.

LUBRICANT:  $\triangle 7$  LUBRICANTS LISTED BELOW MAY BE APPLIED TO ANY OR ALL COMPONENTS IF REQUIRED FOR PERFORMANCE:  
DRY FILM LUBE PER MIL-L-46010 OR MIL-L-81329, WWM CARBO-WAX, PARAFFIN WAX AND/OR CETYL ALCOHOL PER MIL-L-87132.

PART CODE & EXAMPLE:



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 INDENTS).
3. REMOVE ALL LOOSE OR HANGING BURRS.
4. 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).
5. MANUFACTURER'S IDENTIFICATION:  
LETTER "N" DESIGNATES MONOGRAM AEROSPACE FASTENERS.  
LETTERS "VS" DESIGNATE VOI-SHAN.
6. HEAD MARKINGS ON NUT DEPRESSED .010" MAX, LOCATION OPTIONAL.
7. STANDARD FINISHES AND LUBRICANTS ARE SHOWN ABOVE. REFER TO SPECIFICATION ESCBB-4 FOR SPECIAL FINISHES AND/OR LUBRICANTS, IF REQUIRED.
8. HALF-GRIP SIZES MAY BE ORDERED BY ADDING (.5) TO THE GRIP DASH NUMBERS.  
  
EXAMPLE: PLT1010-6-4.5 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.
9. 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.
10. 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" + .001". FORCE FOR INSERTION SHALL NOT EXCEED FIVE (5) POUNDS.
11. 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.
12. DIMENSIONS ARE EXCLUSIVE OF LUBRICATION.



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TITANIUM  
100° REDUCED FLUSH HEAD, SELF LOCKING  
75 KSI SHEAR

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