



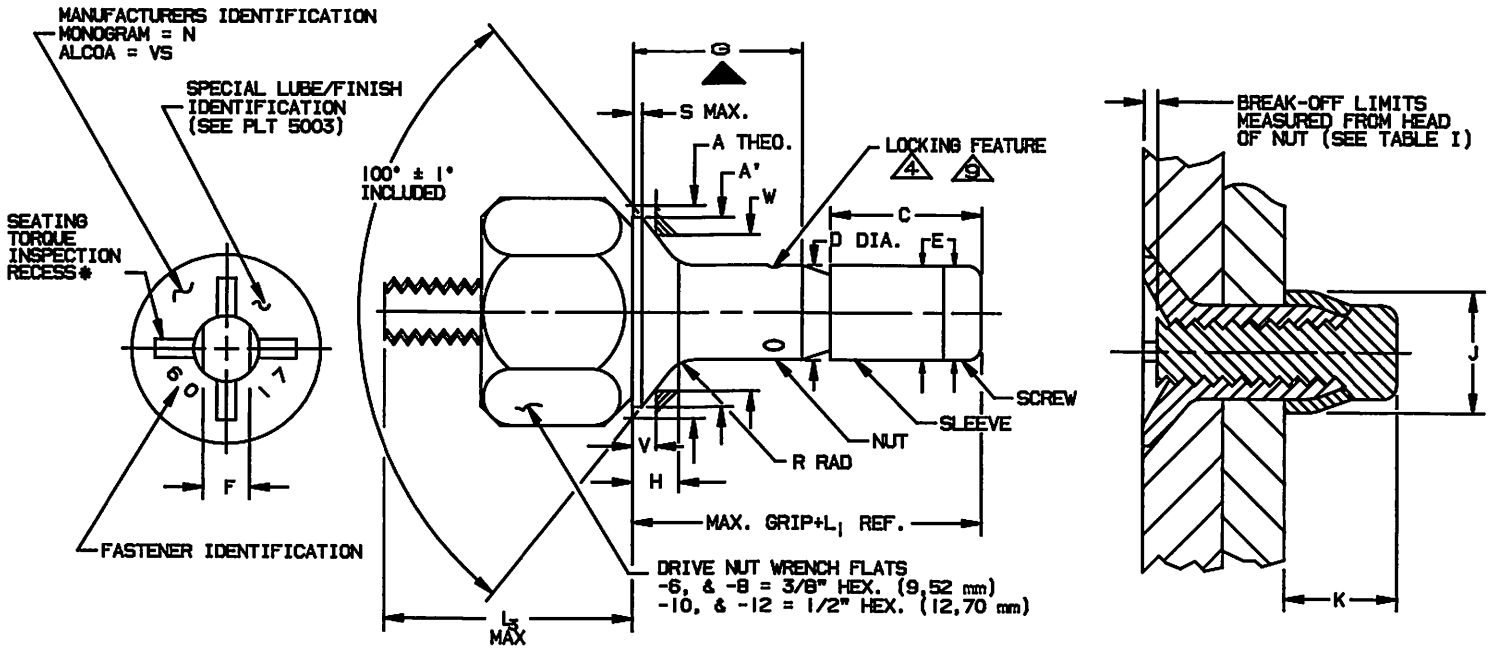
ALCOA

Alcoa Fastening Systems

CUSTODIAN: ENGINEERING STANDARD COMMITTEE FOR BLIND BOLTS  
3423 SOUTH GARFIELD AVENUE  
LOS ANGELES, CALIFORNIA 90040



MONOGRAM  
AEROSPACE  
FASTENERS



HEAD MARKINGS DEPRESSED .010 INCH (0.254 mm MAX.) (POSITION OPTIONAL)  
\*DRIVE-NUT NOT SHOWN FOR CLARITY OF HEAD MARKINGS.

TABLE I

PART NUMBER	NOM. DIA.		A DIA. THEO.		A' DIA. MIN.		C MAX.		D DIA.		E DIA. MAX.		F FLATS		H REF.		J DIA. MAX.		K MAX.		R RAD.		S MAX.	
	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm
PLT 6017-6-()	.2332	5.92	.385 .378	9.78 9.60	.342	8.69	.364	9.25	.2335 .2330	5.93 5.92	.2300	5.84	.104 .099	2.64 2.52	.062	1.57	.315	8.00	.333	8.46	.030 .015	0.76 0.38	.015	0.38
PLT 6017-8-()	.2942	7.47	.507 .499	12.88 12.67	.463	11.76	.398	10.11	.2945 .2940	7.48 7.47	.2910	7.39	.135 .130	3.43 3.30	.088	2.24	.401	10.19	.366	9.30	.030 .015	0.76 0.38	.015	0.38
PLT 6017-10-()	.3457	8.78	.635 .626	16.13 15.95	.577	14.66	.482	12.24	.3460 .3455	8.79 8.78	.3425	8.70	.152 .147	3.86 3.73	.119	3.02	.442	11.23	.447	11.35	.040 .020	1.02 0.51	.020	0.51
PLT 6017-12-()	.4087	10.38	.782 .752	19.35 19.10	.686	17.68	.567	14.40	.4090 .4065	10.38 10.38	.4055	10.30	.185 .180	4.70 4.57	.146	3.71	.531	13.49	.527	13.39	.040 .020	1.02 0.51	.023	0.58

TABLE I (CONT.)

PART NUMBER	V GAGE PROT.		W GAGE DIA.		BREAK-OFF LIMITS		MINIMUM AVAILABLE GRIP LENGTH (TABLE II)	HOLE SIZE		PREVAILING TORQUE MIN.		DOUBLE SHEAR STRENGTH MIN.		TENSILE STRENGTH MIN.		L1 REF.		L3 MAX	
	INCH	mm	INCH	mm	INCH	mm		INCH	mm	IN-LB	Nm	LBS.	N	LBS.	N	INCH	mm	INCH	mm
PLT 6017-6-()	.0299 .0259	0.759 0.658	.3147 .3143	7.993 7.983	+.015 -.073	+0.38 -1.85	-2	.237 .234	6.02 5.94	1.5	0.170	4600	20460	1400	6230	.444	11.28	.868	22.05
PLT 6017-8-()	.0353 .0307	0.897 0.780	.4245 .4241	10.782 10.772	+.010 -.078	+0.25 -1.98	-3	.298 .295	7.57 7.49	2.5	0.282	7900	35140	2100	9340	.590	14.99	1.030	23.16
PLT 6017-10-()	.0409 .0357	1.039 0.907	.5389 .5385	13.688 13.678	+.010 -.099	+0.25 -2.11	-4	.349 .346	8.86 8.79	3.5	0.400	11350	50480	3600	16010	.617	15.67	1.282	32.56
PLT 6017-12-()	.0466 .0407	1.184 1.034	.6532 .6528	16.591 16.581	+.010 -.093	+0.25 -2.36	-4	.412 .409	10.46 10.38	4.0	0.452	16450	73170	5600	24910	.722	18.34	1.351	34.32

▲ \*6" TOLERANCES: FOR -5 & -6 SIZES +.030/-0.010; FOR -8 & -10 SIZES +.040/-0.010; FOR -12 SIZE +.060/-0.010.

ALCOA

CODE IDENT. NO.  
5M902

U.S. PATENT NO. 3643544 AND 4747202  
EUROPEAN PATENT NO. 0216980

MONOGRAM

CODE IDENT. NO.  
98524

APPROVED DATE  
09-22-87 ECN 5112

TITLE  
VISU-LOK® II FASTENER, BLIND  
INTERNALLY THREADED, EXTERNAL SLEEVE  
TITANIUM, SELF LOCKING, CLOSE TOLERANCE  
100° FLUSH HEAD, GROUND SHANK,  
1/32" O/S to PLT6010, 1/64" O/S to PLT6016

STANDARD

PLT6017  
(EQUIV. PLT1107)  
SHEET 1 OF 2



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MONOGRAM AEROSPACE FASTENERS

PROCUREMENT SPECIFICATIONS:

PROCUREMENT SPECIFICATION = PLT 5000, CLASS 5, TYPE I
PART NUMBER ASSIGNMENT = PLT 5001
INSTALLATION AND REMOVAL = PLT 5002
SPECIAL LUBE AND FINISH = PLT 5003

MATERIAL : NUT & SCREW : 6AL-4V TITANIUM PER AMS 4928 OR AMS 4967.
SLEEVE : CORROSION RESISTANT STEEL.
HEAT TREAT : NUT & SCREW : HEAT TREAT PER MIL-H-81200. MAX. HYDROGEN 125 PPM.
SLEEVE : AS REQUIRED FOR PERFORMANCE.
FINISH & "-" NUT & SCREW : NONE.
SLEEVE : PASSIVATE PER QQ-P-35.

LUBRICANT : SOLID DRY FILM LUBRICANT PER THE CHEMICAL REQUIREMENTS OF AS5272
TYPE I OR EVERLUBE 812 PER MIL-L-81329, PARAFFIN WAX OR CETYL ALCOHOL
PER MIL-L-87132 MAY BE APPLIED TO ANY OR ALL COMPONENTS AS REQUIRED FOR
PERFORMANCE, (SEE PLT5003 FOR SPECIAL LUBRICANTS AND FINISHES)

PART CODE & EXAMPLE :

PLT6017 -12 - B

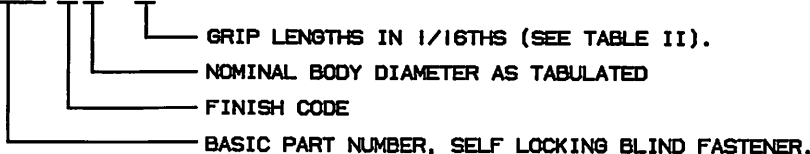


TABLE II

Table with 7 columns: 2ND DASH NO., MIN. GRIP (INCH, mm), MAX. GRIP (INCH, mm), and Ø (INCH, mm). Rows 1-32.

GENERAL NOTES :

- 1.) CONCENTRICITY OF NUT HEAD CONICAL SURFACE TO "D" DIAMETER SHALL BE WITHIN .005 T.I.R. (EXCEPT OVER INDENTS)
2.) REMOVE ALL LOOSE OR HANGING BURRS.
3.) THESE PARTS HAVE A CLOSE TOLERANCE (.0005) GROUND SHANK AND ARE INTENDED FOR USE IN UP TO .0035 DIAMETRAL INTERFERENCE FIT APPLICATIONS.
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 ALCOA.
6. HEAD MARKINGS ON NUT DEPRESSED .010 MAX.
7. HALF-GRIP SIZES MAY BE ORDERED BY ADDING (.5) TO THE GRIP DASH NUMBER.
8. STANDARD GRIP LENGTHS ARE SHOWN IN TABLE II, SHORTER OR LONGER GRIPS THAN THOSE LISTED MAY BE AVAILABLE AS SPECIALS. ON GRIP LENGTHS SHORTER THAN THOSE LISTED, THE BREAKOFF LIMITS AND PREVAILING TORQUE VALUES SHOWN IN TABLE I DO NOT APPLY.
9. 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 "D" MAX. + .001". FORCE FOR INSERTION SHALL NOT EXCEED FIVE (5) POUNDS.
10. 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.
11. DIMENSIONS ARE EXCLUSIVE OF LUBRICATION.

12. FOR ALUMINUM APPLICATION, SHANK "D" MEASUREMENT MAY INCREASE .0002 INCH OVER THE MAXIMUM DIAMETER AND DECREASE .0005 INCH UNDER THE MINIMUM DIAMETER.

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EUROPEAN PATENT NO. 0216980

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09-22-87 ECN 6112
REV. LETTER AND DATE
ECN #4934
01-13-09

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SHEET 2 OF 2