



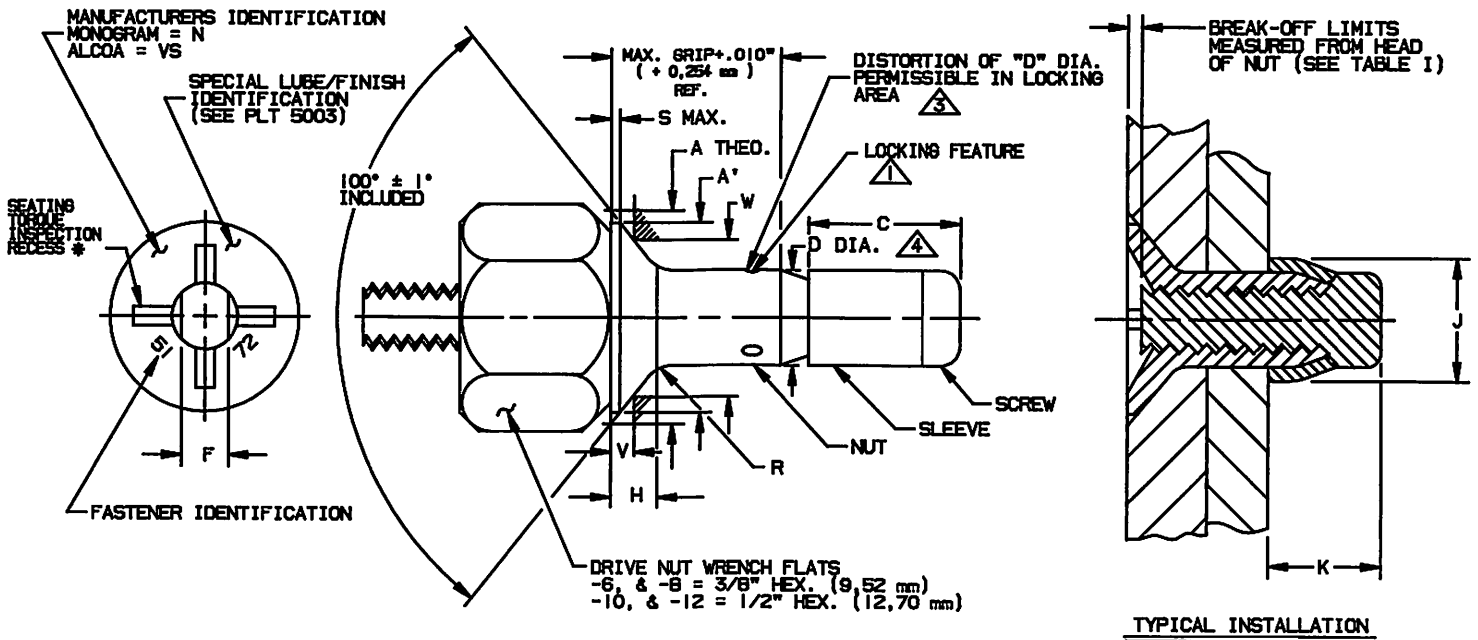
ALCOA

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.		F FLATS		H REF.		J DIA. MAX.		K MAX		R RAD.	
	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm
PLT 5172-6-()	.2290	5,817	.385 .378	9,78 9,60	.342	8,69	.364	9,25	.2300 .2280	5,84 5,79	.104 .099	2,64 2,51	.063	1,60	.315	8,00	.333	8,46	.030 .015	0,76 0,38
PLT 5172-8-()	.2900	7,366	.507 .499	12,88 12,67	.463	11,76	.398	10,11	.2910 .2890	7,39 7,34	.135 .130	3,43 3,30	.097	2,21	.401	10,19	.366	9,30	.030 .015	0,76 0,38
PLT 5172-10-()	.3415	8,674	.635 .626	16,13 15,90	.577	14,66	.482	12,24	.3425 .3405	8,70 8,65	.152 .147	3,86 3,73	.118	3,00	.442	11,23	.447	11,35	.040 .020	1,02 0,51
PLT 5172-12-()	.4045	10,274	.762 .752	19,35 19,10	.696	17,68	.567	14,40	.4055 .4035	10,30 10,25	.185 .180	4,70 4,57	.144	3,66	.531	13,49	.527	13,39	.040 .020	1,02 0,51

TABLE I (CONT.)

PART NUMBER	S MAX.		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.	
	INCH	mm	INCH	mm	INCH	mm	INCH	mm		INCH	mm	IN-LB	Nm	LBS.	N	LBS.	N
PLT 5172-6-()	.015	0,38	.0299 .0259	0,759 0,658	.3147 .3143	7,993 7,983	+0,015 -0,073	+0,38 -1,85	-2	.233 .230	5,92 5,84	1.5	0,170	4600	20460	1400	6230
PLT 5172-8-()	.015	0,38	.0353 .0307	0,897 0,780	.4245 .4241	10,782 10,772	+0,010 -0,078	+0,25 -1,98	-3	.294 .291	7,47 7,39	2.5	0,282	7900	35140	2100	9340
PLT 5172-10-()	.020	0,51	.0409 .0357	1,039 0,907	.5389 .5385	13,688 13,678	+0,010 -0,083	+0,25 -2,11	-4	.346 .343	8,79 8,71	3.5	0,400	11350	50480	3600	16010
PLT 5172-12-()	.023	0,58	.0466 .0407	1,184 1,034	.6532 .6528	16,591 16,581	+0,010 -0,093	+0,25 -2,36	-4	.409 .406	10,39 10,32	4.0	0,452	16450	73170	5600	24910

ALCOA

CODE IDENT. NO.
5M902

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

MONOGRAM

CODE IDENT. NO.
98524

APPROVED DATE

04-10-85 ECN 4088

TITLE
VISU-LOK® II FASTENER, BLIND
INTERNALLY THREADED, EXTERNAL SLEEVE
TITANIUM

100° FLUSH HEAD, SELF-LOCKING
1/32" O/S to PLT5170, 1/64" O/S to PLT5171

STANDARD

PLT 5172

(EQUIV. PLT1068)
SHEET 1 OF 2

REV. LETTER AND DATE

Ⓟ ECN #4926
01-12-09



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APPLICABLE 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: DASH (-) CODE: NUT & SCREW: 6AL-4V TITANIUM PER AMS 4928 OR AMS 4967
SLEEVE: CORROSION RESISTANT STEEL
DRIVE NUT: MILD STEEL

HEAT TREAT: DASH (-) CODE: NUT & SCREW: HEAT TREAT TO 95 KSI, F₀u
SLEEVE: AS REQUIRED FOR PERFORMANCE
DRIVE NUT: AS REQUIRED FOR PERFORMANCE

FINISH: DASH (-) CODE: NUT & SCREW: NONE.
SLEEVE: PASSIVATE PER QQ-P-35 (MIL-S-5002)
DRIVE NUT: CORROSION RESISTANT COATING. COLOR GRAY

LUBRICATION: SOLID DRY FILM LUBRICANT PER THE CHEMICAL REQUIREMENTS OF ASS272
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 PLT 5003 FOR SPECIAL LUBRICANTS AND FINISHES)

PART CODE & EXAMPLE: PLT 5172 - 8 - 4
GRIP LENGTH IN 1/16THS (SEE TABLE II)
NOMINAL BODY DIAMETER IN 1/32NDS (SEE TABLE I)
DASH (-) INDICATES STANDARD LUBRICATION AND FINISH (SEE PLT 5003)
BASIC PART NUMBER, SELF LOCKING BLIND BOLT (SEE PLT 5001)

TABLE II

Table with 4 columns: 2ND DASH NO., MIN. GRIP INCH/mm, MAX. GRIP INCH/mm. Rows 2-32.

GENERAL NOTES:

- 1 LOCKING FEATURE CONSISTS OF THREE (3) INDENTATIONS LOCATED 120° APART ON THE PERIPHERY OF THE NUT COMPONENT
2 HALF GRIP SIZES MAY BE ORDERED BY ADDING .5 TO THE GRIP DASH NUMBER
EXAMPLE: PLT 5172-6-4.5 HAS A NOMINAL GRIP LENGTH OF 4-1/2 16THS (.281" = 7.14mm) AND A GRIP RANGE OF .250" THRU .312". (6.35mm THRU 7.92mm)
3 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 MINIMUM RECOMMENDED HOLE SIZE. FORCE FOR INSERTION SHALL NOT EXCEED FIVE (5) POUNDS (22.23 NEWTONS)
4 OUTSIDE DIAMETER OF HEAD OF SCREW AND OUTSIDE DIAMETER OF SLEEVE SHALL NOT BE GREATER THAN MAXIMUM "D" DIAMETER.

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PLT 5172
(EQUIV. PLT1088)
SHEET 2 OF 2