

PART NUMBER	NOM DIA.	A 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.	BREAK-OFF LIMITS	PREVAILING TORQUE IN. LBS. MIN.	SHEAR STRENGTH LBS. MIN.	TENSILE STRENGTH LBS. MIN.
PLT1016-05-()	.1635	.332 .325	.296	.268	.1645 .1625	.086 .081	.069	.244	.271	.0276 .0238	.030 .010	.012	.2671 .2667	+.020 068	1.0	1625	820
PLT1016-06-()	.1980	.385 .378	.342	.303	.1990 .1970	.104 .099	.077	.300	.309	.0299 .0259	.030 .015	.015	.3147 .3143	+.015 078	1.5	2410	1400
PLT1016-08-()	.2590	.507 .499	.463	.354	.2600 .2580	.135 .130	.102	.384	.350	.0353 .0307	.030 .015	.015	.4245 .4241	+.010 088	2.5	4170	2100
PLT1016-10-()	.3105	.635 .626	.577	.423	.3115 .3095	.152 .147	.134	.427	.406	.0409 .0357	.040 .020	.020	.5389 .5385	+.010 093	3.5	6500	3600
PLT1016-12-()	.3735	.762 .752	.696	.510	.3745 .3725	.185 .180	.160	.516	.479	.0466 .0407	.040 .020	.023	.6532 .6528	+.010 093	4.0	8220	5650

SECOND		4	RIP	PLT1016										
DASH	GRIP		NGE	-05-()		-06	-06-()		-08-()		-10-()		-12-()	
NUMBER		MIN	MAX	L	В	L	В	L	В	L	В	L	В	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-02	.156	.094	.156	.733	.545	.853	.590	-	-	-	-	-	-	
-03	.219	.157	.219	.795	.608	.916	.653	.944	.744	-	-	-	-	
-04	.281	.220	.281	.858	.670	.978	.715	1.006	.806	1.158	.912	1.242	1.072	
-05	.344	.282	.344	.920	.733	1.041	.778	1.069	.869	1.221	.975	1.304	1.135	
-06	.406	.345	.406	.983	.795	1.103	.840	1.131	.931	1.283	1.035	1.367	1.197	
-07	.469	.407	.469	1.045	.858	1.166	.903	1.194	.994	1.346	1.100	1.429	1.260	
-08	.531	.470	.531	1.108	.920	1.228	.965	1.256	1.056	1.408	1.162	1.492	1.322	
-09	.594	.532	.594	1.170	.983	1.291	1.028	1.319	1.119	1.471	1.225	1.554	1.385	
-10	.656	.595	.656	1.233	1.045	1.353	1.090	1.381	1.181	1.533	1.287	1.617	1.447	
-11	.719	.657	.719	1.295	1.108	1.416	1.153	1.444	1.244	1.596	1.350	1.679	1.510	
-12	.781	.720	.781	1.358	1.170	1.478	1.215	1.506	1.306	1.658	1.412	1.742	1.572	
-13	.844	.782	.844	1.420	1.233	1.541	1.278	1.569	1.369	1.721	1.475	1.804	1.635	
-14	.906	.845	.906	1.483	1.295	1.603	1.338	1.631	1.431	1.783	1.537	1.867	1.697	
-15	.969	.907	.969	1.545	1.358	1.666	1.403	1.694	1.494	1.846	1.600	1.929	1.760	
-16	1.031	.970	1.031	1.608	1.420	1.728	1.465	1.756	1.556	1.908	1.662	1.992	1.822	

TITLE:

SECOND		A A A A A A A A A A A A A A A A A A A		PLT1016										
DASH	GRIP		ige	-05-()		-06	-06-()		-08-()		-10-()		!-()	
NOMBLK		MIN	MAX	L	В	L	В	L	В	L	В	L	В	
-17	1.094	1.032	1.094			1.791	1.528	1.819	1.619	1.971	1.725	2.054	1.885	
-18	1.156	.156 1.095 1.156				1.853	1.590	1.881	1.681	2.033	1.787	2.117	1.947	
-19	1.219	1.157	1.219	-05 DIAMETER		1.916	1.653	1.944	1.744	2.096	1.850	2.179	2.010	
-20	1.281	1.220	1.281			1.978	1.715	2.006	1.806	2.158	1.912	2.242	2.072	
-21	1.344	1.282	1.344			2.041	1.778	2.069	1.869	2.221	1.973	2.304	2.135	
-22	1.406	1.345	1.406			2.103	1.840	2.131	1.931	2.283	2.037	2.367	2.197	
-23	1.469	1.407	1.469			2.166	1.903	2.194	1.994	2.346	2.100	2.429	2.260	
-24	1.531	1.470	1.531	2	<u> </u>	2.228	1.965	2.256	2.056	2.408	2.162	2.492	2.322	
-25	1.594	1.532	1.594	<u> </u>		2.291	2.028	2.319	2.119	2.471	2.225	2.554	2.395	
-26	1.656	1.595	1.656	<	AVAILABLE		2.090	2.381	2.181	2.533	2.287	2.617	2.447	
-27	1.719	1.719 1.657 1.7	1.719	3	ζ	2.416	2.153	2.444	2.244	2.596	2.350	2.679	2.510	
-28	1.781	1.720	1.781	4	2.478	2.215	2.506	2.306	2.658	2.412	2.742	2.572		
-29	1.844	1.782	1.844	NOT		2.541	2.278	2.569	2.369	2.721	2.475	2.084	2.635	
-30	1.906	1.845	1.906	2	_	2.603	2.340	2.631	2.431	2.783	2.537	2.867	2.697	
-31	1.969	1.907	1.969			2.666	2.403	2.694	2.494	2.846	2.600	2.929	2.706	
-32	2.031	1.970	2.031			2.728	2.465	2.756	2.556	2.908	2.662	2.992	2.822	

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



a TriMas company

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

VISU-LOK, FASTENER, BLIND INTERNALLY THREADED, EXTERNAL SLEEVE HIGH TEMPERATURE (A-286 ALLOY) 100° FLUSH HEAD, SELF LOCKING

REDUCED BREAKOFF, HIGH SHEAR STRENGTH PROPRIETARY AND CONFIDENTIAL:

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Alcoa 5M902

DRAWING NO:

PLT1016-()-()									
DRAWN BY:	DRAWN DATE:								
B. GEE	09/25/13								
APPROVED BY:	CHECKED DATE:								
MONOGRAM CAGE CODE:	DCN NO: 14-0709 DCN DATE:	REV:							
98524	11/08/14	SHEET 1 OF 2							





PROCUREMENT SPEC: ESCBB-2 CLASS 2, EXCEPT AS SPECIFIED HEREIN.

MATERIAL: NUT, SCREW & CORROSION RESISTANT STEEL, TYPE A-286 PER AMS5731, AMS5732 OR AMS5737.

SLEEVE:

SOLUTION HEAT TREATED AND AGED TO A CORE HARDENESS OF HRC 30-45. ALL CORE HARDNESS HEAT TREAT NUT & SCREW:

READINGS ARE TAKEN ON MOUNTED SPECIMEN, USING A BRALE PENETRATOR AND A 30 Kg LOAD

(ROCKWELL 30N)

SLEEVE: SOLUTION TREATED.

FINISH: 8 NUT, SCREW &: PASSIVATE PER AMS2700.

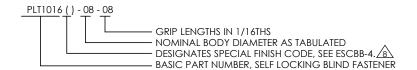
SLEEVE:

LUBRICANT: /8 LUBRICANTS LISTED BELOW MAY BE APPLIED TO ANY OR ALL COMPONENTS IF REQUIRED FOR PERFORMANCE:

DRY FILM LUBE PER AS5272 TYPE I OR MIL-PRF-81329, WWM CARBO-WAX, PARAFFIN WAX AND OR CETYL ALCOHOL PER

AS87132./9\

PART CODE & EXAMPLE:



GENERAL NOTES:

<u>/iì.</u>

/12.

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 INDENTS).

3. REMOVE ALL LOOSE OR HANGING BURRS.

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).

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.

MANUFACTURER'S IDENTIFICATION: LETTER "N" DESIGNATES MONOGRAM AEROSPACE FASTENERS. LETTERS "VS" DESIGNATE VOI-SHAN.

HEAD MARKINGS ON NUT DEPRESSED .010" MAX.

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

HEAD OF NUT TO BE COLORED YELLOW.

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

EXAMPLE: PLT1016-06-4.5 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 -1.5 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.

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.

TITLE:



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VISU-LOK, FASTENER, BLIND INTERNALLY THREADED, EXTERNAL SLEEVE HIGH TEMPERATURE (A-286 ALLOY) 100° FLUSH HEAD, SELF LOCKING REDUCED BREAKOFF, HIGH SHEAR STRENGTH

PLT1016-()-() B. GEE 09/25/13 APPROVED BY CHECKED DATE **MONOGRAM** 14-0709 Κ 98524 11/08/14 SHEET 2 OF 2

INCE: THIS DRAWING IS PART OF THE PROPRIETAR ARTICLE FIGURE USECLOSED, AND THE DELIVERY OF THIS DRAWING IS PART OF THE PROPRIET ART AND THE CONTROL OF THE PROPRIET AND THE CONTROL OF THE PART, AND TIS CONTROL OF THE PART OF THE PART

Alcoa 5M902 DRAWING NO: