

# MONOGRAM AEROSPACE FASTENERS

3423 SOUTH GARFIELD AVENUE  
LOS ANGELES, CALIFORNIA 90040

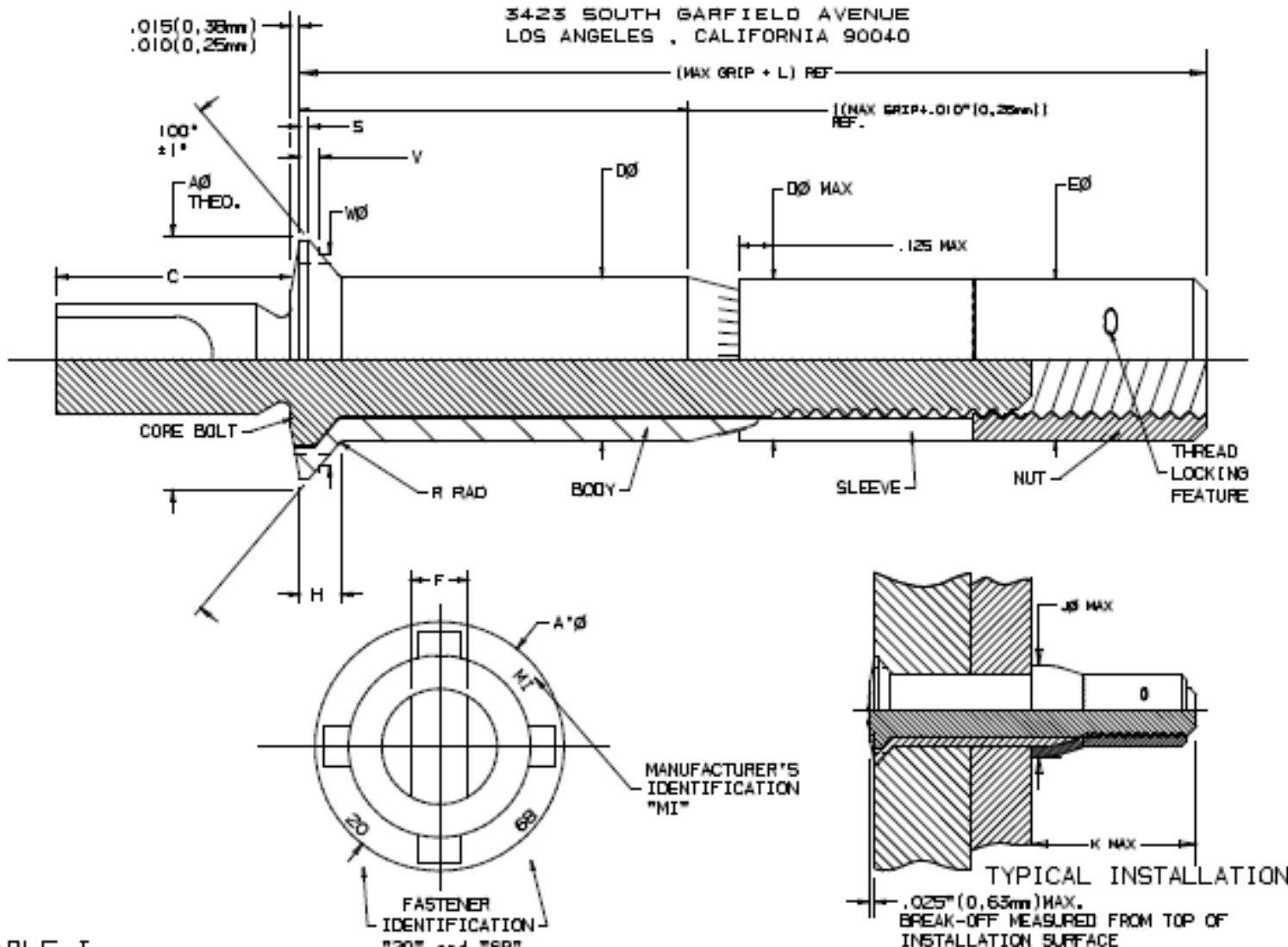


TABLE I

PART NUMBER	A DIA. THEO.		A' DIA. MIN.		C REF.		D DIA.		E DIA. MAX.		F FLATS		H REF.		J DIA. MAX.		K MAX.		L	
	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm
BGV2068-05-()	.2612 .2564	6.63 6.51	.241	6.12	5/16	7.92	.1645 .1635	4.18 4.15	.162	4.11	.084 .081	2.14 2.05	.041 .039	1.04 0.99	.290	6.35	.450	11.43	.475	12.06
BGV2068-06-()	.3016 .2968	7.65 7.56	.282	7.16			.1895 .1885	4.81 4.79	.187	4.75	.112 .109	2.85 2.76	.047 .045	1.19 1.14	.310	7.87	.475	12.06	.475	12.06

TABLE I (CONT.)

PART NUMBER	R RAD. REF.		S MAX.		V GAGE PROT.		W GAGE DIA.		PREVAILING TORQUE MIN.		DOUBLE SHEAR STRENGTH MIN.		TENSILE STRENGTH MIN.		RECOMMENDED HOLE SIZE (INTERFERENCE)		RECOMMENDED HOLE SIZE (CLEARANCE)		MINIMUM AVAILABLE GRIP LENGTH (TABLE 1C)
	INCH	mm	INCH	mm	INCH	mm	INCH	mm	IN-LBS	Nm	LBS.	N	LBS.	N	INCH	mm	INCH	mm	
BGV2068-05-()	.025 .015	0.63 0.38	.010	0.25	.0265 .0237	0.673 0.602	.1992 .1990	5.060 5.055	1.5	0.17	4040	18020	900	4000	.1631 .1622	4.14 4.12	.167 .165	4.24 4.19	-2.5
BGV2068-06-()	.030 .020	0.76 0.51	.015	0.38	.0246 .0218	0.625 0.554	.2440 .2438	6.198 6.193	2.0	0.23	5360	23910	1500	6670	.1882 .1875	4.78 4.76	.192 .190	4.88 4.83	

Monogram  
CODE IDENT. NO.  
Q B S 2 4

U.S. PATENTS Nos. 5,408,110; 5,634,751  
AND FOREIGN PATENTS PENDING

APPROVED DATE  
09-30-03  
REV. LETTER AND DATE  
DCN #17-0164  
"L" 05-16-17

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TITLE  
OSI BOLT™ 100° FLUSH CROWN SHEAR HEAD  
CLOSE TOLERANCE SHANK  
TITANIUM, 95 KSI SHEAR  
1/16" GRIP VARIATION

STANDARD  
BGV2068  
SHEET 1 OF 2

# MONOGRAM AEROSPACE FASTENERS

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LOS ANGELES, CALIFORNIA 90040

INSTALLATION SPECIFICATION:  
PROCUREMENT SPECIFICATION:

BG 2003  
BG 2000

TABLE III

PART NUMBER	C O M P O N E N T S							
	BODY		NUT		SLEEVE		COREBOLT	
	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH
BBV2068-()-()-()	6Al-4V Ti	PHOSPHATE FLUORIDE	6Al-4V Ti	PHOSPHATE FLUORIDE	A-286 WITH CHEMICAL COMPOSITION PER AMS5731 OR AMS5734	CAD PLATE PER QQ-P-416 TYPE I, CLASS 3	6Al-6V-2Sn Ti	PHOSPHATE FLUORIDE PER AMS2486
BBV2068A-()-()-()	PER AMS4967 OR AMS4928 HEAT TREATED AS REQ'D FOR PERFORMANCE	PER AMS2486	PER AMS4928 AMS4967 HEAT TREATED TO 160 KSI MIN. TENSILE	AMS2486	OR 304 SS. PER AMS5639	PASSIVATE PER ANS2700	PER AMS4971 HEAT TREATED AS REQ'D FOR PERFORMANCE	

LUBRICANT: DRY FILM LUBE PER THE CHEMICAL REQUIREMENTS OF AS5272, TYPE I. PARAFFIN WAX OR CETYL ALCOHOL USED AS REQUIRED FOR PERFORMANCE.

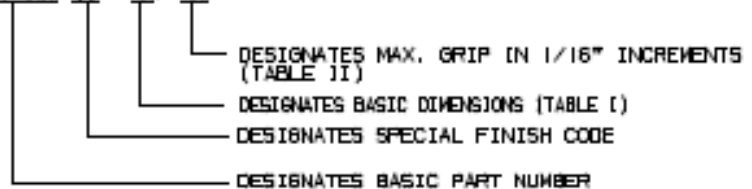
TABLE II

2ND DASH NO.	GRIP RANGE			
	MIN. GRIP		MAX. GRIP	
	INCH	mm	INCH	mm
4				
-2.5	.094	2.39	.156	3.96
-3	.126	3.20	.187	4.75
-4	.188	4.78	.250	6.35
-5	.251	6.38	.312	7.92
-6	.313	7.95	.375	9.52
-7	.376	9.55	.437	11.10
-8	.438	11.13	.500	12.70
-9	.501	12.73	.562	14.27
-10	.563	14.30	.625	15.87
-11	.626	15.90	.687	17.45
-12	.688	17.48	.750	19.05
-13	.751	19.08	.812	20.62
-14	.813	20.65	.875	22.22
-15	.876	22.25	.937	23.80
-16	.938	23.83	1.000	25.40
-17	1.001	25.43	1.062	26.97
-18	1.063	27.00	1.125	28.57
-19	1.126	28.60	1.187	30.15
-20	1.188	30.18	1.250	31.75
-21	1.251	31.78	1.312	33.32
-22	1.313	33.35	1.375	34.92
-23	1.376	34.95	1.437	36.50
-24	1.438	36.53	1.500	38.10
-25	1.501	38.13	1.562	39.67
-26	1.563	39.70	1.625	41.27
-27	1.626	41.30	1.687	42.85
-28	1.688	42.88	1.750	44.45
-29	1.751	44.48	1.812	46.02
-30	1.813	46.05	1.875	47.62
-31	1.876	47.65	1.937	49.20
-32	1.938	49.23	2.000	50.80

GENERAL NOTES:

1.) EXAMPLE OF PART NUMBER:

BBV2068 ( ) - 06 - 09



2.) LOCKING FEATURE CONSISTS OF THREE (3) INDENTATIONS LOCATED 120° APART ON THE PERIPHERY OF THE NUT COMPONENT.

3.) SEE BG 2003 FOR INSTALLATION AND REMOVAL INFORMATION.

4. GRIP LENGTH NOT LISTED ARE AVAILABLE UPON REQUEST.

5. INSTALLATION HOLE MAY BE RADIUS AT MINIMUM "R" TO CLEAR HEAD-TO-SHANK RADIUS.

6. ALL DIMENSIONS TO BE MET AFTER FINISH AND BEFORE LUBRICATION.

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SHEET 2 OF 2