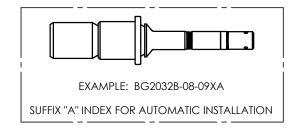
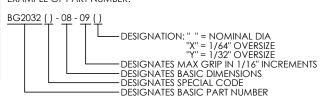


PART NUMBER	NOM DIA	A DIA THEO.	A' DIA MIN.	C REF	D DIA	E DIA MAX	F FLATS	H REF	J DIA MIN	K MAX	L REF	М	N	R MAX	V GAGE PROT	W GAGE DIA
BG2032()-06-()	3/16				.1895 .1885	.1875		.081	.290		050					
BG2032( )-06-( )X	13/64	.385 .378	.342		.2026 .2016	.1995	.112 .109	.077	.300	.750	.850	.315 .305	.047 .044		.0245 .0212	.3272 .3270
BG2032( )-06-( )Y	7/32			5/16	.2182 .2172	.2150		.077 .300	.300		.900			.030		
BG2032()-08-()	1/4			3/16	.2495 .2485	.2470		.111	.380		.980			.030		
BG2082( )-08-( )X	17/64	.507 .499	.463		.2651 .2641	.2620	.135 .131	.104	.400	.800	.900	.435 .425	.055 .050		.0318 .0279	.4320 .4318
BG2032( )-08-( )Y	9/32				.2807 .2797	.2775		.097	.400		1.040					
BG2032()-10-()	5/16				.3120 .3110	.3090		.136	.475		1.100					
BG2032( )-10-( )X	21/64	.635 .626	.577	3/8	.3276 .3266	.3245	.152 .149	.129	.495	.950	1.125	.520 .510	.068 .063		.0405 .0365	.5389 .5385
BG2032( )-10-( )Y	11/32				.3432 .3422	.3400		.122	.515		1.200			040		
BG2032()-12-()	3/8				.3745 .3735	.3715		.162	.560		1.250			.040		
BG2032( )-12-( )X	25/64	.762 .752	.696	7/16	.3901 .3891	.3870	.184 .181	.155	.580	1.100	1.300	.622 .612	.082 .077		.0458 .0415	.6532 .6528
BG2032( )-12-( )Y	13/32				.4057 .4047	.4025		.148	.600	]	1.320					

		MIN AVAILABLE GRIP DASH NO.	RECOMMENDE	) HOLE SIZE FOR:	PREVAILING	DOUBLE SHEAR (LBS) MIN	TENSILE STRENGTH (LBS) MIN	
PART NUMBER			CLEARANCE INSTALLATION	INTERFERENCE INSTALLATION	TORQUE (IN-LBS) MIN			BREAK-OFF LIMITS MAX
BG2032( )-06-( )			.192 .190	.1890 .1875		5360		
BG2032( )-06-( )X			.205	.2015	4	6130	1600	.015
BG2032( )-06-( )Y			.2205	.2171 .2152		7100		
BG2032( )-08-( )			.252 .250	.2489 .2472		9300		
BG2032( )-08-( )X		-03	.268 .266	.2640 .2622	6	10500	3000	
BG2032( )-08-( )Y			.2835 .2815	.2796 .2777		11800		
BG2032()-10-()			.315 .313	.3110 .3092		14600		
BG2032( )-10-( )X			.3305 .3285	.3265 .3247	8	16000	5000	.020
BG2032( )-10-( )Y			.346 .344	.3421 .3402		17600		
BG2032()-12-()			.377 .375	.3735 .3717		21000		
BG2032( )-12-( )X		-04	.393 .391	.3891 .3872	10	22700	7000	
BG2032( )-12-( )Y			.409 .407	.4047 .4027		24600		



EXAMPLE OF PART NUMBER:



U.S. PATENT NO.: 5,498,110; 5,634,751 AND FOREIGN PATENTS PENDING

TITLE:



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

OSI BOLT ™ 100° FLUSH TENSION HEAD CLOSE TOLERANCE SHANK A286 CRES, 95 KSI SHEAR 1/16" GRIP VARIATION

DRAWING NO: BG2032()-()-()()

M. DOMINGUEZ 07-08-13 APPROVED BY CHECKED DATE: **MONOGRAM** 

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15-0241 F 06-23-15 SHEET 1 OF 2

	COMPONENTS									
PART NUMBER	ВС	DDY	SLE	EVE	NI	UT	COREBOLT			
	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH		
BG2032-()-()()	A286 CRES PER AMS5732 OR AMS5737; HEAT TREATED AS REQUIRED FOR PERFORMANCE	PASSIVATE PER AMS-QQ-P-35 OR BAS5758 ALUMINUM COAT PER BMS-10-85 TYPE I, CLASS A	304 SS PER AMS5639 FULLY ANNEALED	CAD PLATE PER AMS-QQ-P-416 TYPE II, CLASS 1		CAD PLATE PER AMS-QQ-P-416 TYPE II, CLASS 1	INCO 718 PER AMS5662 HEAT TREATED TO 125 KSI FSU MINIMUM	PASSIVATE PER AMS-QQ-P-35 OR BAC5758		
BG2032A-( )-( )( )	A286 CRES PER AMS5732 OR AMS5737; HEAT TREATED AS REQUIRED FOR PERFORMANCE	PASSIVATE PER AMS-QQ-P-35 OR BAS5758 ALUMINUM COAT PER BMS-10-85 TYPE I, CLASS A	304 SS PER AMS5639 FULLY ANNEALED	CAD PLATE PER AMS-QQ-P-416 TYPE II, CLASS 1	A286 CRES PER AMS5732 OR AMS5737;	PASSIVATE PER AMS-QQ-P-35 OR BAC 5758	INCO 718 PER AMS5662 HEAT TREATED TO 125 KSI FSU MINIMUM	PASSIVATE PER AMS-QQ-P-35 OR BAC5758		
BG2032B-()-()()	A286 CRES PER AMS5732 OR AMS5737; HEAT TREATED AS REQUIRED FOR PERFORMANCE	PASSIVATE PER AMS-QQ-P-35 OR BAS5758 & ALUMINUM COAT PER BMS-10-85 TYPE I, CLASS A	304 SS PER AMS5639 FULLY ANNEALED	PASSIVATE PER AMS-QQ-P-35 OR BAC5758	HEAT TREATED TO 160 KSI MINI TENSILE EXCEPT: FOR -08 DIA NOMINAL SIZE ONLY, INCO 718 PER AM\$5662 HEAT TREATED	PASSIVATE PER AMS-QQ-P-35 OR BAC 5758	INCO 718 PER AMS5662 HEAT TREATED TO 125 KSI FSU MINIMUM	PASSIVATE PER AMS-QQ-P-35 OR BAC5758		
BG2032C-()-()()	A286 CRES PER AMS5732 OR AMS5737; HEAT TREATED AS REQUIRED FOR PERFORMANCE	PASSIVATE PER AMS-QQ-P-35 OR BAC5758	304 SS PER AMS5639 FULLY ANNEALED	PASSIVATE PER AMS-QQ-P-35 OR BAC 5758	TO 125 KSI MIN	PASSIVATE PER AMS-QQ-P-35 OR BAC 5758	INCO 718 PER AMS5662 HEAT TREATED TO 125 KSI FSU MINIMUM	PASSIVATE PER AMS-QQ-P-35 OR BAC5758		
BG2032G-()-()()	A286 CRES PER AMS5732 OR AMS5737; HEAT TREATED AS REQUIRED FOR PERFORMANCE	HI-KOTE I	304 SS PER AMS5639 FULLY ANNEALED	HI-KOTE I		PASSIVATE PER AMS-QQ-P-35 OR BAC 5758	INCO 718 PER AMS5662 HEAT TREATED TO 125 KSI FSU MINIMUM	PASSIVATE PER AMS-QQ-P-35 OR BAC5758		

INSTALLATION SPECIFICATION: BG2003 PRODUCREMENT SPECIFICATION: BG2000

## GENERAL NOTES:

- LUBRICANT: DRY FILM LUBE PER THE CHEMICAL REQUIREMENTS OF MIL-L-46010 TYPE I, AND/OR 1. PARAFFIN WAX USED AS REQUIRED FOR PERFORMANCE.
- 2. LOCKING FEATURE CONSISTS OF THREE (3) INDENTATIONS LOCATED 120° APART ON THE PERIPHERY OF THE NUT COMPONENT.
- 3. SEE BG2003 FOR INSTALLATION AND REMOVAL INFORMATION.

GRIP LENGTHS NOT LISTED MAY BE AVAILABLE UPON REQUEST.

INSTALLATION HOLE SHALL BE RADIUSED TO CLEAR HEAD TO SHANK RADIUS.

- ALL DIMENSIONS TO BE MET AFTER FINISH AND BEFORE LUBRICATION. 6.
- 7. CONICAL SURFACE OF HEAD SHALL BE CONCENTRIC TO SHANK DIAMETER WITHIN .005 T.I.R.

<u>/8.\</u> INSERT FABRICATED FROM ACETAL PLASTIC PER ASTM-D-4181.

2ND DASH	GRIP RANGE (INCHES)					
NO.	MIN GRIP	MAX GRIP				
-02	.063	.125				
-03	.126	.187				
-04	.188	.250				
-05	.251	.312				
-06	.313	.375				
-07	.376	.437				
-08	.438	.500				
-09	.501	.562				
-10	.563	.625				
-11	.626	.687				
-12	.688	.750				
-13	.751	.812				
-14	.813	.875				
-15	.876	.937				
-16	.938	1.000				
-17	1.001	1.062				
-18	1.063	1.125				
-19	1.126	1.187				
-20	1.188	1.250				
-21	1.251	1.312				
-22	1.313	1.375				
-23	1.376	1.437				
-24	1.438	1.500				
-25	1.501	1.562				
-26	1.563	1.625				
-27	1.626	1.687				
-28	1.688	1.750				
-29	1.751	1.812				
-30	1.813	1.875				
-31	1.876	1.937				
-32	1.938	2.000				

U.S. PATENT NO.: 5,498,110; 5,634,751 AND FOREIGN PATENTS PENDING

TITLE:



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OSI BOLT ™ 100° FLUSH TENSION HEAD CLOSE TOLERANCE SHANK A286 CRES, 95 KSI SHEAR 1/16" GRIP VARIATION

DRAWING NO: BG2032()-()-()()

M. DOMINGUEZ 07-08-13 APPROVED BY CHECKED DATE:

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