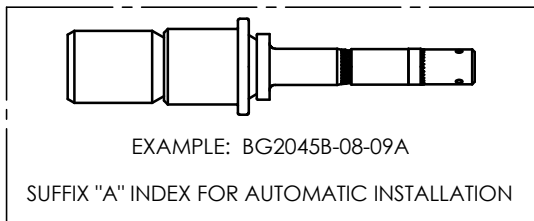


PART NUMBER	NOM DIA	A DIA	C REF	D DIA	E DIA MAX	F FLATS	H HEAD HEIGHT	J DIA MIN	K MAX	L REF	M	N	R MAX					
BG2045(-)06(-)	3/16	.377	5/16	.1895	.1875	.112	.075	.290	.750	.800	.320	.047	.030					
BG2045(-)06(-)X	13/64	.370		.2026	.1995			.109						.300				
BG2045(-)06(-)Y	7/32	.390		.2182	.2150			.320										
BG2045(-)08(-)	1/4	.480		.2495	.2470	.135	.135	.380	.800	.980	.435			.055				
BG2045(-)08(-)X	17/64			.472	.2651			.2620							.400	.425		
BG2045(-)08(-)Y	9/32			.2807	.2797			.2775							.850	1.040	.420	.410
BG2045(-)10(-)	5/16	.568	3/8	.3120	.3090	.152	.150	.475	.950	1.100	.520	.068	.040					
BG2045(-)10(-)X	21/64			.562	.3276			.3245						.149	.495	1.125	.480	.470
BG2045(-)10(-)Y	11/32			.3432	.3422			.3400						.515	1.200	.560	.550	
BG2045(-)12(-)	3/8	.600	7/16	.3745	.3715	.184	.140	.560	1.100	1.250	.575	.082	.077					
BG2045(-)12(-)X	25/64			.594	.3901			.3870						.181	.580	1.300	.565	
BG2045(-)12(-)Y	13/32			.620	.4057			.4025						.600	1.320	.640	.630	
BG2045(-)14(-)	7/16	.676	7/16	.4370	.4335	.220	.160	.660	1.250	1.410	.640	.094	.089					
BG2045(-)14(-)X	29/64			.668	.4360			.4335						.217	.680	1.480	.630	
BG2045(-)14(-)Y	13/32			.4526	.4516			.4490						.256	.188	.740	.730	
BG2045(-)16(-)	1/2	.770	1/2	.4995	.4955	.253	.188	.760	1.350	1.530	.740	.106	.101					
		.762		.4985	.4955			.181										



EXAMPLE OF PART NUMBER:

BG2045 (-) - 08 - 09 (-)

- DESIGNATION: " " = NOMINAL DIA
- "X" = 1/64" OVERSIZE
- "Y" = 1/32" OVERSIZE
- DESIGNATES MAX GRIP IN 1/16" INCREMENTS
- DESIGNATES BASIC DIMENSIONS
- DESIGNATES SPECIAL CODE
- DESIGNATES BASIC PART NUMBER

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



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

TITLE:

OSI BOLT™  
 PROTRUDING HEAD  
 CLOSE TOLERANCE SHANK  
 INCONEL 718, 112 KSI SHEAR STRENGTH  
 1/16" GRIP VARIATION

DRAWING NO:

BG2045(-)(-)(-)(-)

DRAWN BY:

M. DOMINGUEZ

DRAWN DATE:

07-01-13

APPROVED BY:

CHECKED DATE:

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MONOGRAM  
 CAGE CODE:

98524

ECN NO: 15-0249

ECN DATE: 06-24-15

REV:

AB

SHEET 1 OF 2

4 2ND DASH NO.	GRIP RANGE (INCHES)		PART NUMBER	MIN AVAILABLE GRIP DASH NO.	RECOMMENDED HOLE SIZE FOR:		PREVAILING TORQUE (IN-LBS) MIN	DOUBLE SHEAR (LBS) MIN	TENSILE STRENGTH (LBS) MIN	BREAK-OFF LIMITS
	MIN GRIP	MAX GRIP			4 CLEARANCE INSTALLATION	5 INTERFERENCE INSTALLATION				
-02	.063	.125	BG2045(-)-06(-)		.192 .190	.1890 .1875		6300		
-03	.126	.187	BG2045(-)-06(-)X		.205 .203	.2015 .1997	4	7250	1600	+0.15 -.005
-04	.188	.250	BG2045(-)-06(-)Y		.2205 .2185	.2171 .2152		8400		
-05	.251	.312	BG2045(-)-08(-)		.252 .250	.2489 .2472		11000		
-06	.313	.375	BG2045(-)-08(-)X		.268 .266	.2640 .2622	6	12400	3000	
-07	.376	.437	BG2045(-)-08(-)Y		.2835 .2815	.2796 .2777		13900		
-08	.438	.500	BG2045(-)-10(-)		.315 .313	.3110 .3092		17200		
-09	.501	.562	BG2045(-)-10(-)X		.3305 .3285	.3265 .3247	8	18900	5000	+0.20 -.005
-10	.563	.625	BG2045(-)-10(-)Y		.346 .344	.3421 .3402		20800		
-11	.626	.687	BG2045(-)-12(-)		.377 .375	.3735 .3717		24700		
-12	.688	.750	BG2045(-)-12(-)X		.393 .391	.3891 .3872		26800	7000	
-13	.751	.812	BG2045(-)-12(-)Y	-03	.409 .407	.4047 .4027	10	29000		
-14	.813	.875	BG2045(-)-14(-)		.440 .438	.4360 .4340		33600		
-15	.876	.937	BG2045(-)-14(-)X		.456 .454	.4516 .4496		36000	9500	+0.25 -.005
-16	.938	1.000	BG2045(-)-14(-)Y		.502 .500	.4985 .4965	12	43900	12500	
-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								

PART NUMBER	COMPONENTS							
	BODY		COREBOLT		SLEEVE		NUT	
	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH
BG2045(-)-((-))	INCO 718 PER AMS5662 HEAT TREATED TO 125 KSI FSU MINIMUM	PASSIVATE PER AMS2700 OR BAC5758 & ALUMINUM COAT PER BMS-10-85 TYPE I CLASS A	INCO 718 PER AMS5662 HEAT TREATED TO 125 KSI FSU MINIMUM	PASSIVATE PER AMS2700 OR BAC5758	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
BG2045A(-)-((-))	INCO 718 PER AMS5662 HEAT TREATED TO 125 KSI FSU MINIMUM	PASSIVATE PER AMS2700 OR BAC5758 & ALUMINUM COAT PER BMS-10-85 TYPE I CLASS A	INCO 718 PER AMS5662 HEAT TREATED TO 125 KSI FSU MINIMUM	PASSIVATE PER AMS2700 OR BAC5758	304 SS PER AMS5639 FULLY ANNEALED	CAD PLATE PER AMS-QQ-P-416 TYPE II, CLASS 1	A286 CRES PER AMS5732 OR AMS5737 HEAT TREATED TO 160 KSI MIN TENSILE. <b>EXCEPT:</b> FOR -08 DIA NOM SIZE ONLY, INCO 718 PER AMS5662 HEAT TREATED TO 200 KSI FTU MIN	PASSIVATE PER AMS2700 OR BAC5758
BG2045B(-)-((-))	INCO 718 PER AMS5662 HEAT TREATED TO 125 KSI FSU MINIMUM	PASSIVATE PER AMS2700 OR BAC5758 & ALUMINUM COAT PER BMS-10-85 TYPE I CLASS A	INCO 718 PER AMS5662 HEAT TREATED TO 125 KSI FSU MINIMUM	PASSIVATE PER AMS2700 OR BAC5758	304 SS PER AMS5639 FULLY ANNEALED	PASSIVATE PER AMS2700 OR BAC5758		PASSIVATE PER AMS2700 OR BAC5758
BG2045C(-)-((-))	INCO 718 PER AMS5662 HEAT TREATED TO 125 KSI FSU MINIMUM	PASSIVATE PER AMS2700 OR BAC5758	INCO 718 PER AMS5662 HEAT TREATED TO 125 KSI FSU MINIMUM	PASSIVATE PER AMS2700 OR BAC5758	304 SS PER AMS5639 FULLY ANNEALED	PASSIVATE PER AMS2700 OR BAC5758		PASSIVATE PER AMS2700 OR BAC5758

INSTALLATION SPECIFICATION: BG2003  
 PROCUREMENT SPECIFICATION: BG2000

GENERAL NOTES:

- LUBRICANT: DRY FILM LUBRICANT PER THE CHEMICAL REQUIREMENTS OF AS5272, TYPE I AND/OR PARAFFIN WAX OR CETYL ALCOHOL AS REQUIRED FOR PERFORMANCE. AS5272 THICKNESS AND PAINT ADHESION REQUIREMENTS DO NOT APPLY. SOLID FILM LUBRICANT NOT ALLOWED ON SHANK OF BODY. SLIGHT OVERSPRAY OF SOLID FILM LUBRICANT INTO RECESS AND BODY EXTERIOR IS ACCEPTABLE.
- LOCKING FEATURE CONSISTS OF THREE (3) INDENTATIONS LOCATED 120° APART ON THE PERIPHERY OF THE NUT COMPONENT.
- SEE BG2003 FOR INSTALLATION AND REMOVAL INFORMATION.
- GRIP LENGTHS NOT LISTED MAY BE AVAILABLE UPON REQUEST.
- INSTALLATION HOLE SHALL BE RADIUS TO CLEAR HEAD TO SHANK RADIUS.
- ALL DIMENSIONS TO BE MET AFTER FINISH AND BEFORE LUBRICATION.
- BEARING SURFACE OF HEAD SHALL BE PERPENDICULAR TO SHANK DIA WITHIN .002 T.I.R.
- INSERT FABRICATED FROM ACETAL PLASTIC PER ASTM-D-4181.

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



TITLE:  
 OSI BOLT™  
 PROTRUDING HEAD  
 CLOSE TOLERANCE SHANK  
 INCONEL 718, 112 KSI SHEAR STRENGTH  
 1/16" GRIP VARIATION

DRAWING NO: <b>BG2045(-)-((-)-((-))</b>	
DRAWN BY: M. DOMINGUEZ	DRAWN DATE: 07-01-13
APPROVED BY:	CHECKED DATE:

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