

TABLE I

PART NUMBER	Ø A		Ø A' MIN		Ø D		Ø E MAX		F WRENCH FLATS		(G)		(H)		(L)		R RAD. MAX		S MAX		T ACROSS HEX FLATS REF.	
	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm
MBF2123-5-( )	.332 .325	8.43 8.25	.296	7.52	.1645 .1625	4.178 4.128	.1640	4.166	.085 .080	2.16 2.03	.017	0.43	.039	0.99	.512	13.00	.030	0.76	.009	0.229	.375	9.52
MBF2123-6-( )	.385 .378	9.78 9.60	.342	8.69	.1985 .1965	5.042 4.991	.1985	5.042	.113 .108	2.87 2.74	.027	0.68	.043	1.09	.575	14.61	.030	0.76	.011	0.279	.375	9.52
MBF2123-7-( )	.416 .409	10.57 10.39	.373	9.47	.2275 .2255	5.778 5.728	.2275	5.778	.121 .116	3.07 2.95	.035	0.89	.043	1.09	.635	16.13	.030	0.76	.011	0.279	.375	9.52
MBF2123-8-( )	.507 .499	12.88 12.67	.463	11.76	.2595 .2575	6.591 6.541	.2595	6.591	.135 .130	3.43 3.30	.055	1.40	.057	1.45	.700	17.78	.030	0.76	.011	0.279	.375	9.52
MBF2123-9-( )	.538 .530	13.66 13.46	.494	12.55	.2895 .2875	7.353 7.303	.2895	7.353	.152 .147	3.86 3.73	.065	1.65	.057	1.45	.815	20.70	.030	0.76	.011	0.279	.500	12.70
MBF2123-10-( )	.635 .626	16.13 15.90	.577	14.66	.3115 .3095	7.912 7.861	.3110	7.899	.152 .147	3.86 3.73	.070	1.78	.075	1.90	.892	22.66	.040	1.02	.014	0.356	.500	12.70
MBF2123-11-( )	.666 .657	16.92 16.69	.608	15.44	.3435 .3415	8.725 8.674	.3433	8.720	.185 .180	4.70 4.57	.075	1.90	.074	1.88	.941	23.90	.040	1.02	.015	0.381	.500	12.70
MBF2123-12-( )	.762 .752	19.35 19.10	.696	17.68	.3745 .3725	9.512 9.462	.3740	9.500	.185 .180	4.70 4.57	.080	2.03	.089	2.26	1.090	27.69	.040	1.02	.016	0.406	.500	12.70

TABLE I (CONTINUED)

PART NUMBER	MIN. AVAILABLE GRIP DASH NO.	INSTALLED DIMENSIONS								MECHANICAL PROPERTIES									
		RECOMMENDED HOLE SIZE		Ø J MIN		K MAX		3 BREAK-OFF LIMITS		TENSILE STRUCTURAL FAILURE MIN		DOUBLE SHEAR MIN		LOCKING TORQUE MIN		V (GAGE PROTRUSION)		Ø W (GAGE)	
		INCH	mm	INCH	mm	INCH	mm	INCH	mm	LBS	N	LBS	N	IN-LBS	N-m	INCH	mm	INCH	mm
MBF2123-5-( )	-100	.168 .165	4.27 4.19	.250	6.35	.300	7.62	+1.03 -0.00	+2.62 -0.00	900	4000	3150	14010	1.0	0.113	.0115 .0095	0.292 0.241	.2832 .2830	7.193 7.188
MBF2123-6-( )	-150	.202 .199	5.13 5.05	.300	7.62	.350	8.89	+1.03 -0.00	+2.62 -0.00	1400	6230	4600	20460	1.5	0.170	.0140 .0114	0.356 0.289	.3272 .3270	8.311 8.306
MBF2123-7-( )	-150	.231 .228	5.88 5.79	.350	8.89	.400	10.16	+1.03 -0.00	+2.62 -0.00	1600	7120	6050	26910	2.0	0.226	.0202 .0176	0.513 0.447	.3315 .3313	8.420 8.415
MBF2123-8-( )	-150	.263 .260	6.68 6.60	.400	10.16	.450	11.43	+1.03 -0.00	+2.62 -0.00	2100	9340	7900	35140	2.5	0.282	.0180 .0151	0.457 0.384	.4320 .4318	10.973 10.968
MBF2123-9-( )	-150	.293 .290	7.44 7.37	.450	11.43	.500	12.70	+1.03 -0.00	+2.62 -0.00	2600	11565	9800	43590	3.0	0.339	.0247 .0224	0.627 0.569	.4320 .4318	10.973 10.968
MBF2123-10-( )	-200	.315 .312	8.00 7.92	.475	12.06	.550	13.97	+1.03 -0.00	+2.62 -0.00	3600	16010	11350	50480	3.5	0.400	.0227 .0201	0.577 0.511	.5389 .5385	13.688 13.678
MBF2123-11-( )	-200	.347 .344	8.81 8.74	.525	13.33	.575	14.60	+1.03 -0.00	+2.62 -0.00	4400	19570	13850	61600	4.0	0.452	.0302 .0276	0.767 0.701	.5389 .5385	13.688 13.678
MBF2123-12-( )	-250	.378 .375	9.60 9.52	.575	14.60	.625	15.87	+1.03 -0.00	+2.62 -0.00	5000	22240	16450	73170	4.0	0.452	.0255 .0228	0.648 0.579	.6532 .6528	16.591 16.581

APPLICABLE SPECIFICATIONS:

PROCUREMENT SPECIFICATION: MBF2000  
 SPECIAL LUBE AND FINISH: MBF2002  
 INSTALLATION AND INSPECTION SPECIFICATION: MBF2003  
 PART NUMBER ASSIGNMENT: MBF2005



MATERIAL:

NUT: A-286 PER THE CHEMICAL REQUIREMENTS OF AMS5731, AMS5732, AMS5734 AND AMS5737. HEAT TREATED AS REQUIRED FOR PERFORMANCE.

SCREW: A-286 PER THE CHEMICAL REQUIREMENTS OF AMS5731, AMS5732, AMS5734 AND AMS5737. HEAT TREATED AS REQUIRED FOR PERFORMANCE.

SLEEVE: 304 STAINLESS STEEL PER AMS5639, HEAT TREATED AS REQUIRED FOR PERFORMANCE.

INSERT: ACETAL PER ASTM-D6778.

DRIVE NUT: MILD STEEL.

FINISH :

NUT, SLEEVE & SCREW: PASSIVATE PER AMS-QQ-P-35. CONVERSION COATING OPTIONAL.

INSERT: NONE.

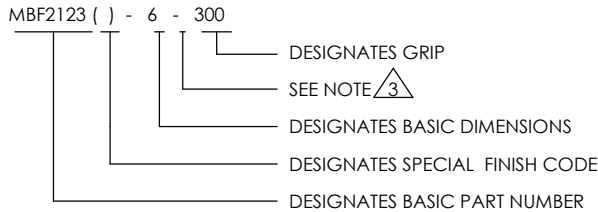
DRIVE NUT: CORROSION RESISTANT COATING COLOR BLACK.

LUBRICANTS: SOLID FILM LUBRICANT PER AS5272 TYPE I OR MIL-PRF-81329, PARAFFIN WAX, AND/OR CETYL ALCOHOL PER AS87132 (AS REQUIRED FOR PERFORMANCE).

2ND DASH NO. (GRIP)	TABLE II			
	GRIP RANGE			
	MIN GRIP		MAX GRIP	
	INCH	mm	INCH	mm
100	.050	1.27	.100	2.54
150	.100	2.54	.150	3.81
200	.150	3.81	.200	5.08
250	.200	5.08	.250	6.35
300	.250	6.35	.300	7.62
350	.300	7.62	.350	8.89
400	.350	8.89	.400	10.16
450	.400	10.16	.450	11.43
500	.450	11.43	.500	12.70
550	.500	12.70	.550	13.97
600	.550	13.97	.600	15.24
650	.600	15.24	.650	16.51
700	.650	16.51	.700	17.78
750	.700	17.78	.750	19.05
800	.750	19.05	.800	20.32
850	.800	20.32	.850	21.59
900	.850	21.59	.900	22.86
950	.900	22.86	.950	24.13
1000	.950	24.13	1.000	25.40
1050	1.000	25.40	1.050	26.67
1100	1.050	26.67	1.100	28.19
1150	1.100	28.19	1.150	29.21
1200	1.150	29.21	1.200	30.48
1250	1.200	30.48	1.250	31.75
1300	1.250	31.75	1.300	33.02
1350	1.300	33.02	1.350	34.29
1400	1.350	34.29	1.400	35.56
1450	1.400	35.56	1.450	36.83
1500	1.450	36.83	1.500	38.10
1550	1.500	38.10	1.550	39.37
1600	1.550	39.37	1.600	40.64
1650	1.600	40.64	1.650	41.91
1700	1.650	41.91	1.700	43.18

GENERAL NOTES:

1. EXAMPLE OF PART NUMBER:



2. 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.

3. AN "L" IN PLACE OF THE DASH ( - ) BETWEEN THE DIAMETER DASH NUMBER AND THE GRIP DASH NUMBER DESIGNATES MODIFIED BREAK-OFF LIMITS OF +.053 / -.050. "e.g. MBF2123 ( ) - 6L200".

4. DISTORTION SHALL NOT PREVENT INSERTION OF THE FASTENER INTO A RING GAUGE OF LENGTH EQUAL TO "D" MAX + .0008". FORCE FOR INSERTION SHALL NOT EXCEED 5.0 POUNDS.



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

TITLE:

BLIND FASTENER, 130° FLUSH HEAD  
 FOR ADVANCED COMPOSITE MATERIAL  
 A-286 STAINLESS

DRAWING NO:

MBF2123-( )-( )

DRAWN BY:

B. GEE

DRAWN DATE:

04/21/14

APPROVED BY:

CHECKED DATE:

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SHEET 2 OF 2