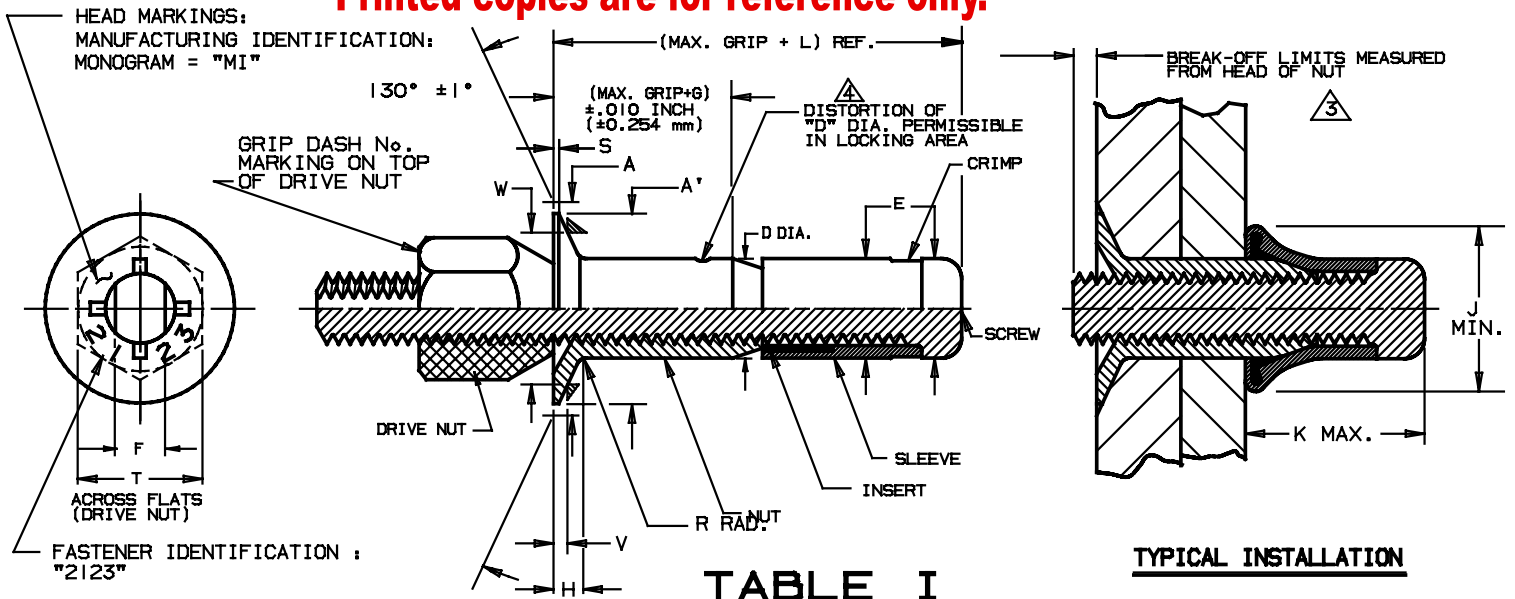


Printed copies are for reference only.



PART NUMBER	A DIA. REF.		A' DIA. MIN.		D DIA.		E DIA. MAX.		F WRENCH FLATS		G REF.		H REF.		L REF.		R RAD. MAX.		S MAX.		T ACROSS HEX. 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	8,433	.296	7,52	.1645	4,178	.1640	4,166	.085	2,16	.017	0,43	.039	0,99	.512	13,00	.030	0,76	.009	0,229	.375	9,52
MBF2123-6-()	.385	9,779	.342	8,69	.1985	5,042	.1985	5,042	.113	2,87	.027	0,68	.043	1,09	.575	14,61	.030	0,76	.011	0,279	.375	9,52
MBF2123-7-()	.416	10,566	.373	9,47	.2275	5,778	.2275	5,778	.121	3,07	.035	0,89	.043	1,09	.635	16,13	.030	0,76	.011	0,279	.375	9,52
MBF2123-8-()	.507	12,878	.463	11,76	.2595	6,591	.2595	6,591	.135	3,43	.055	1,40	.057	1,45	.700	17,78	.030	0,76	.011	0,279	.375	9,52
MBF2123-9-()	.538	13,665	.494	12,55	.2895	7,353	.2895	7,353	.152	3,86	.065	1,65	.057	1,45	.815	20,70	.030	0,76	.011	0,279	.500	12,70
MBF2123-10-()	.635	16,129	.577	14,66	.3115	7,912	.3110	7,899	.152	3,86	.070	1,78	.075	1,90	.892	22,66	.040	1,02	.014	0,356	.500	12,70
MBF2123-11-()	.666	16,916	.608	15,44	.3435	8,725	.3433	8,720	.185	4,70	.075	1,90	.074	1,88	.941	23,90	.040	1,02	.015	0,381	.500	12,70
MBF2123-12-()	.762	19,355	.696	17,68	.3745	9,512	.3740	9,500	.185	4,70	.080	2,03	.089	2,26	1,090	27,69	.040	1,02	.016	0,406	.500	12,70

TABLE I (CONT)

PART NUMBER	MINIMUM AVAILABLE GRIP DASH NO.	INSTALLED DIMENSIONS								MECHANICAL PROPERTIES									
		RECOMMENDED HOLE SIZE		J DIA. MIN.		K MAX.		BREAK-OFF LIMITS		TENSILE STRUCTURAL FAILURE (MIN.)		DOUBLE SHEAR MIN.		LOCKING TORQUE MIN.		V GAGE PROT.		W GAGE DIA.	
		INCH	mm	INCH	mm	INCH	mm	INCH	mm	LBS.	N	LBS.	N	IN-LBS	Nm	INCH	mm	INCH	mm
MBF2123-5-()	-100	.168	4,27	.250	6,35	.300	7,62	+.103	+2,62	900	4000	3150	14010	1.0	0,113	.0115	0,292	.2832	7,193
MBF2123-6-()	-150	.202	5,13	.300	7,62	.350	8,89	+.103	+2,62	1400	6230	4600	20460	1.5	0,170	.0140	0,356	.3272	8,311
MBF2123-7-()	-150	.231	5,88	.350	8,89	.400	10,16	+.103	+2,62	1600	7120	6050	26910	2.0	0,226	.0202	0,513	.3315	8,420
MBF2123-8-()	-150	.263	6,68	.400	10,16	.450	11,43	+.103	+2,62	2100	9340	7900	35140	2.5	0,282	.0180	0,457	.4320	10,973
MBF2123-9-()	-150	.293	7,44	.450	11,43	.500	12,70	+.103	+2,62	2600	11565	9800	43590	3.0	0,339	.0247	0,627	.4318	10,973
MBF2123-10-()	-200	.315	8,00	.475	12,06	.550	13,97	+.103	+2,62	3600	16010	11350	50480	3.5	0,400	.0227	0,571	.5389	13,688
MBF2123-11-()	-200	.347	8,81	.525	13,33	.575	14,60	+.103	+2,62	4400	19570	13850	61600	4.0	0,452	.0302	0,767	.5389	13,688
MBF2123-12-()	-250	.378	9,60	.575	14,60	.625	15,87	+.103	+2,62	5000	22240	16450	73170	4.0	0,452	.0255	0,648	.6532	16,591

U.S. PATENT NO. 4747202, 4772167 AND 4967463  
 EUROPEAN PATENT NO. 0152531 & 0244783

**MONOGRAM**  
 CODE IDENT. NO.  
**98524**

APPROVED DATE  
 ECN #3708  
 01-03-84

REV. LETTER & DATE  
 ECN # 1831  
 01-22-04

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TITLE  
**BLIND FASTENER 130° FLUSH HEAD**  
**FOR: ADVANCED COMPOSITE MATERIAL**  
**A-286 STAINLESS**

**STANDARD**  
**MBF 2123**  
 SHEET 1 OF 2

**MONOGRAM AEROSPACE FASTENERS**

3423 SOUTH GARFIELD AVENUE  
LOS ANGELES , CALIFORNIA 90040



**APPLICABLE SPECIFICATIONS:**

PROCUREMENT SPECIFICATION: MBF 2000.  
SPECIAL LUBE AND FINISH CODES: MBF 2002.  
INSTALLATION & INSPECTION SPECIFICATION: MBF 2003.  
PART NUMBER ASSIGNMENT: MBF 2005.

**MATERIAL AND HEAT TREAT:** NUT: A-286 STAINLESS STEEL PER CHEMICAL REQUIREMENTS OF AMS 5731, AMS 5732, AMS 5734 AND AMS 5737. HEAT TREATED AS REQUIRED FOR PERFORMANCE.

SCREW: A-286 PER THE CHEMICAL REQUIREMENTS OF AMS 5731, AMS 5732, AMS 5734 AND AMS 5737. HEAT TREATED AS REQUIRED FOR PERFORMANCE.

SLEEVE: 304 STAINLESS STEEL PER AMS 5639, HEAT TREATED AS REQUIRED FOR PERFORMANCE.

INSERT: ACETAL PER ASTM D4181.

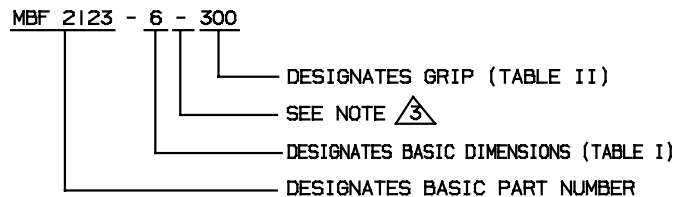
DRIVE NUT: MILD STEEL.

**FINISH:** NUT, SLEEVE & SCREW : PASSIVATE PER QQ-P-35. KAL-GARD ANN-RO #1013, CONVERSION COATING OPTIONAL.

INSERT: NONE.  
DRIVE NUT: CORROSION RESISTANT COATING COLOR BLACK.

**LUBRICANTS:** DRY FILM LUBE PER MIL-L-46010 TYPE I OR EVERLUBE #812 PER MIL-L-81329, PARAFFIN WAX, AND/OR CETYL ALCOHOL PER MIL-L-87132.

**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. MBF 2123(L)-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.

**TABLE II**

2ND DASH NO. (GRIP)	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	27,94
1150	1.100	27,94	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

U.S. PATENT NO. 4747202, 4772167 AND 4967463  
EUROPEAN PATENT NO. 0152531 & 0244783

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FOR: ADVANCED COMPOSITE MATERIAL  
A-286 STAINLESS**

**STANDARD**  
**MBF 2123**  
SHEET 2 OF 2