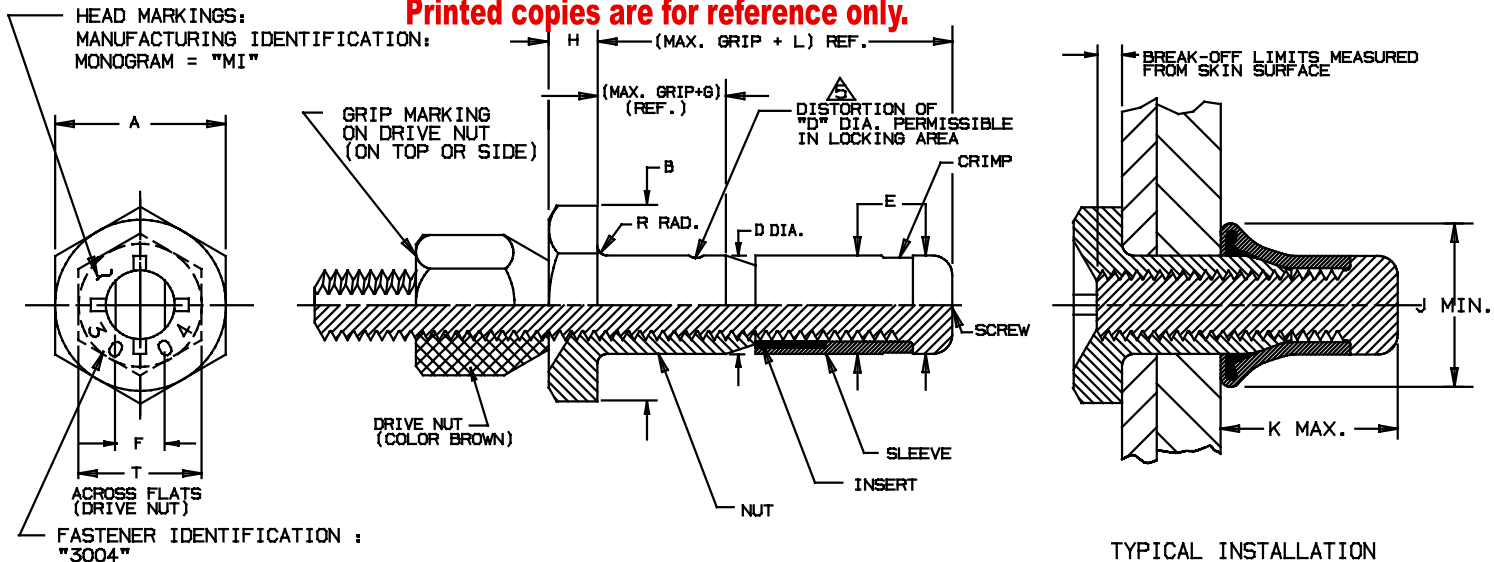


MONOGRAM AEROSPACE FASTENERS

3423 SOUTH GARFIELD AVENUE  
LOS ANGELES, CALIFORNIA 90040



Printed copies are for reference only.



HEAD MARKINGS DEPRESSED .010 INCH ( 0,254 mm MAX.) (POSITION OPTIONAL)  
DRIVE-NUT NOT SHOWN FOR CLARITY OF HEAD MARKINGS.

TABLE I

PART NUMBER	A		B MIN.		D DIA.		E DIA. MAX.		F WRENCH FLATS		G REF.		H		L REF.		R RAD. 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
MBF3004-5-()	.250 .244	6,35 6,20	.272	6,91	.1645 .1625	4,178 4,128	.1640	4,166	.085 .080	2,16 2,03	.058	1,47	.076 .069	1,930 1,753	.625	15,875	.030	0,76	.375	9,52
MBF3004-6-()	.312 .305	7,92 7,75	.340	8,64	.1985 .1965	5,042 4,991	.1985	5,042	.113 .108	2,87 2,74	.058	1,47	.080 .073	2,032 1,854	.675	17,145	.030	0,76	.375	9,52
MBF3004-7-()	.343 .336	8,71 8,53	.375	9,52	.2275 .2255	5,778 5,728	.2275	5,778	.121 .116	3,07 2,95	.058	1,47	.080 .073	2,032 1,854	.862	21,894	.030	0,76	.375	9,52
MBF3004-8-()	.375 .367	9,52 9,32	.409	10,39	.2595 .2575	6,591 6,541	.2595	6,591	.135 .130	3,43 3,30	.058	1,47	.090 .083	2,286 2,108	.900	22,860	.030	0,76	.375	9,52
MBF3004-9-()	.406 .398	10,31 10,11	.444	11,28	.2895 .2875	7,353 7,303	.2895	7,353	.152 .147	3,86 3,73	.068	1,73	.090 .083	2,286 2,108	.930	23,622	.030	0,76	.500	12,70
MBF3004-10-()	.437 .429	11,10 11,10	.479	12,17	.3115 .3095	7,912 7,861	.3110	7,899	.152 .147	3,86 3,73	.073	1,85	.112 .105	2,845 2,667	.912	23,164	.040	1,02	.500	12,70
MBF3004-11-()	.468 .460	11,89 11,68	.513	13,03	.3435 .3415	8,725 8,674	.3433	8,720	.185 .180	4,70 4,57	.078	1,98	.112 .105	2,845 2,667	1.000	25,400	.040	1,02	.500	12,70
MBF3004-12-()	.500 .491	12,70 12,47	.548	13,92	.3745 .3725	9,512 9,462	.3740	9,500	.185 .180	4,70 4,57	.083	2,11	.133 .126	3,378 3,200	1.100	27,940	.040	1,02	.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.	
		INCH	mm	INCH	mm	INCH	mm	INCH	mm	LBS.	N	LBS.	N	IN-LBS	Nm
MBF3004-5-()	-100	.168 .165	4,27 4,19	.250	6,35	.370	9,40	+.103 -.000		900	4000	3150	14010	1.0	0,113
MBF3004-6-()	-100	.202 .199	5,13 5,05	.300	7,62	.420	10,67			1400	6230	4600	20460	1.5	0,170
MBF3004-7-()	-100	.231 .228	5,88 5,79	.350	8,89	.490	12,45			1600	7120	6050	26910	2.0	0,226
MBF3004-8-()	-150	.263 .260	6,68 6,60	.400	10,16	.510	12,95			2100	9340	7900	35140	2.5	0,282
MBF3004-9-()	-150	.293 .290	7,44 7,37	.450	11,43	.535	13,59			2600	11565	9800	43590	3.0	0,339
MBF3004-10-()	-150	.315 .312	8,00 7,92	.475	12,06	.540	13,72			3600	16010	11350	50480	3.5	0,400
MBF3004-11-()	-150	.347 .344	8,81 8,74	.525	13,33	.670	17,02			4400	19570	13850	61600	4.0	0,452
MBF3004-12-()	-150	.378 .375	9,60 9,52	.565	14,35	.675	17,15			5000	22240	16450	73170	4.5	0,508

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

MONOGRAM  
CODE IDENT. NO.  
98524

APPROVED DATE ECN #4734 12-11-86	NOTICE: THIS DRAWING IS PART OF THE PROPRIETARY ARTICLE HEREIN DISCLOSED. OWNED BY MONOGRAM AEROSPACE FASTENERS, ANY PARTY BY ACCEPTING THIS DOCUMENT ASSUMES CUSTODY THEREOF AND AGREES: A. THE INFORMATION SET FORTH HEREIN IS GIVEN IN CONFIDENCE AND THIS DOCUMENT WILL NOT BE COPIED OR REPRODUCED IN WHOLE OR IN PART, NOR ITS CONTENTS REVEALED IN ANY MANNER TO ANY PERSON EXCEPT TO MEET THE PURPOSE FOR WHICH IT WAS DELIVERED. B. WITHOUT THE WRITTEN CONSENT OF MONOGRAM AEROSPACE FASTENERS, THIS DOCUMENT AND THE INFORMATION CONTAINED HEREIN UNDER NO CIRCUMSTANCES WILL BE USED IN THE MANUFACTURE OR REPRODUCTION OF THE ARTICLE DISCLOSED, AND DELIVERY OF THIS DOCUMENT SHALL NOT CONSTITUTE ANY RIGHT OR LICENSE TO DO SO.	TITLE BLIND FASTENER REDUCED PROTRUDING HEX. HEAD FOR ADVANCED COMPOSITE MATERIAL TITANIUM	STANDARD MBF 3004 SHEET 1 OF 2
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