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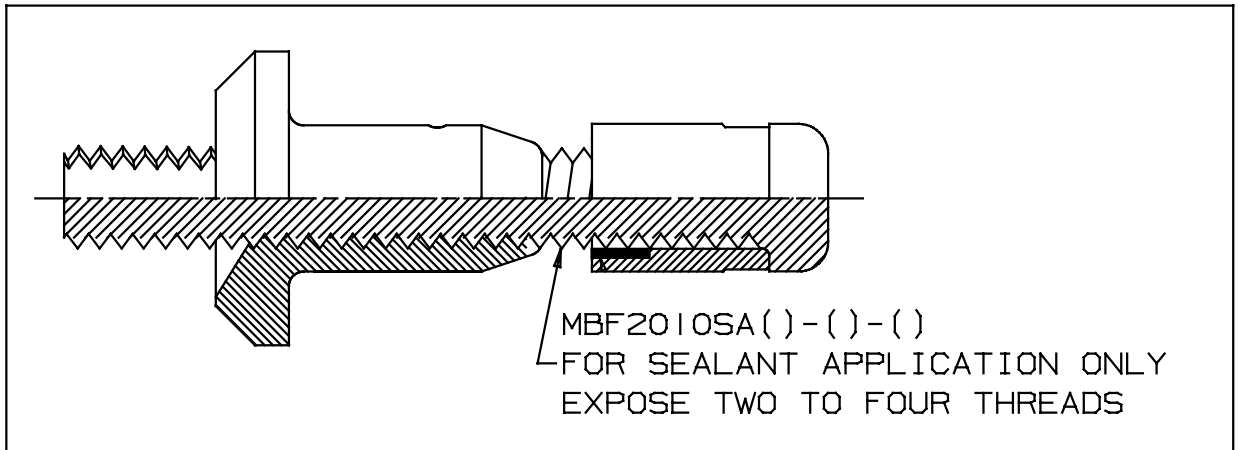
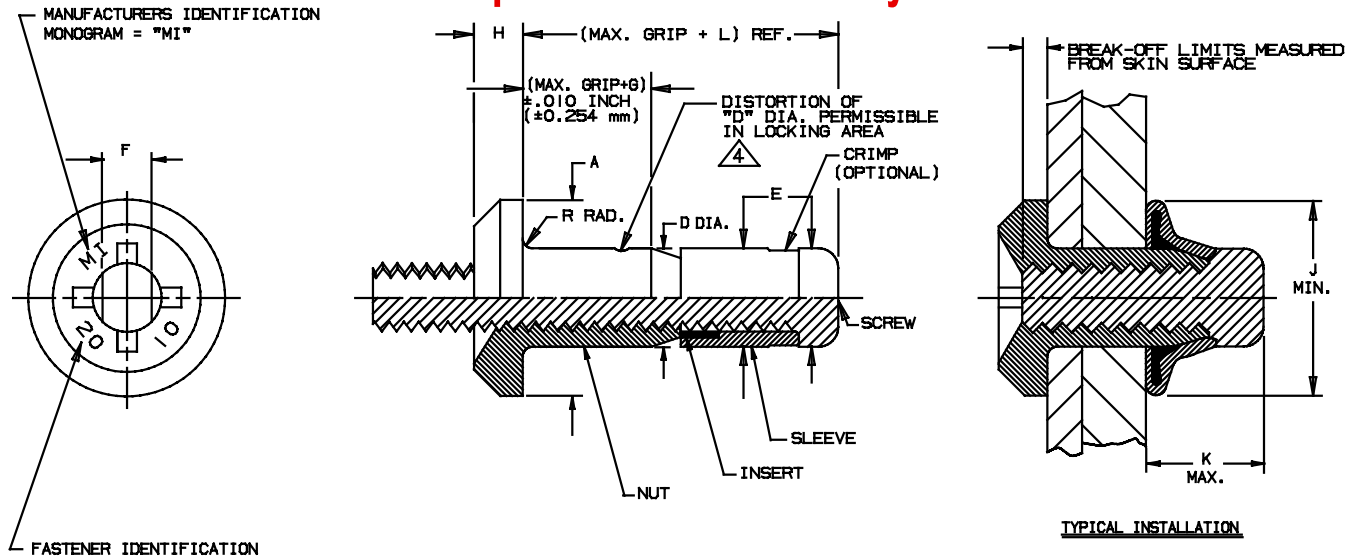


TABLE I

PART NUMBER	A DIA.		D DIA.		E DIA. MAX.		F WRENCH FLATS		G		H		L		R RAD. MAX.	
	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm
MBF2010-5-()	.359 .329	9,12 8,37	.1640 .1625	4,166 4,127	.1640	4,166	.085 .080	2,16 2,03	.017	0,43	.060 .053	1,524 1,346	.450	11,43	.030	0,76
MBF2010-6-()	.421 .391	10,69 9,93	.1985 .1970	5,042 5,000	.1985	5,042	.113 .108	2,87 2,74	.027	0,68	.070 .063	1,778 1,600	.558	14,17	.030	0,76
MBF2010-7-()	.421 .391	10,69 9,93	.2275 .2260	5,779 5,740	.2275	5,779	.121 .116	3,07 2,95	.035	0,89	.070 .063	1,778 1,600	.650	16,51	.030	0,76
MBF2010-8-()	.546 .516	13,87 13,11	.2595 .2580	6,592 6,553	.2595	6,591	.135 .130	3,43 3,30	.055	1,40	.085 .078	2,159 1,981	.692	17,58	.030	0,76
MBF2010-9-()	.546 .516	13,87 13,11	.2895 .2880	7,354 7,315	.2895	7,353	.152 .147	3,86 3,73	.065	1,65	.085 .078	2,159 1,981	.815	20,70	.030	0,76
MBF2010-10-()	.640 .610	16,27 15,49	.3110 .3095	7,900 7,861	.3110	7,899	.152 .147	3,86 3,73	.070	1,78	.105 .098	2,667 2,489	.892	22,66	.040	1,02
MBF2010-11-()	.640 .610	16,27 15,49	.3433 .3418	8,720 8,681	.3433	8,720	.185 .180	4,70 4,57	.075	1,90	.105 .098	2,667 2,489	.941	23,90	.040	1,02
MBF2010-12-()	.765 .735	19,43 18,67	.3740 .3725	9,500 9,461	.3740	9,500	.185 .180	4,70 4,57	.080	2,03	.125 .118	3,175 2,997	1,090	27,69	.040	1,02

U.S. PATENT NO. 3643544 AND 4967463  
 EUROPEAN PATENT NO. 0152531

MONOGRAM

CODE IDENT. NO.  
 98524

APPROVED DATE  
 01-03-84

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TITLE

BLIND FASTENER LOW PROFILE PROTRUDING HEAD  
 FOR: ADVANCED COMPOSITE MATERIAL  
 TITANIUM

STANDARD

MBF 2010  
 SHEET 1 OF 2

REV. LETTER & DATE  
 ECN # 1320  
 "AC" 04-19-02

APPLICABLE SPECIFICATIONS:

PROCUREMENT SPECIFICATION:  
INSTALLATION & INSPECTION SPECIFICATION  
SPECIAL LUBE AND FINISH:  
PART NUMBER ASSIGNMENT:

MBF 2000.  
MBF 2001.  
MBF 2002.  
MBF 2004.

TABLE I (CONT)

PART NUMBER	MINIMUM AVAILABLE GRIP LENGTH	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
MBF2010-5-(-)	-100	.168 .165	4,27 4,19	.250	6,35	.300	7,62	+.103 -.000	+2,62 -0,00	900	4000	3150	14010	1.0	0,113
MBF2010-6-(-)	-100	.202 .199	5,13 5,05	.300	7,62	.350	8,89			1400	6230	4600	20460	1.5	0,170
MBF2010-7-(-)	-100	.231 .228	5,88 5,79	.350	8,89	.400	10,16			1600	7120	6050	26910	2.0	0,226
MBF2010-8-(-)	-150	.263 .260	6,68 6,60	.400	10,16	.450	11,43			2100	9340	7900	35140	2.5	0,282
MBF2010-9-(-)	-150	.293 .290	7,44 7,37	.450	11,43	.500	12,70			2600	11565	9800	43590	3.0	0,339
MBF2010-10-(-)	-150	.315 .312	8,00 7,92	.475	12,06	.550	13,97			3600	16010	11350	50480	3.5	0,400
MBF2010-11-(-)	-150	.347 .344	8,81 8,74	.525	13,33	.575	14,60			4400	19570	13850	61600	4.0	0,452
MBF2010-12-(-)	-150	.378 .375	9,60 9,52	.575	14,60	.625	15,87			5000	22240	16450	73170	4.0	0,452

MATERIAL AND HEAT TREAT:

NUT: 6AL-4V TITANIUM PER MIL-T-9047 STA OR AMS4928 OR AMS4967 HEAT TREATED PER MIL-H-81200 TO 95 KSI SHEAR STRENGTH MINIMUM. MAXIMUM HYDROGEN CONTENT 125 PPM.

SCREW: A-286 PER AMS 5731, AMS 5732 OR AMS 5737 HEAT TREATED TO 175 KSI TENSILE MINIMUM.

SLEEVE: 304 STAINLESS STEEL PER AMS 5639, FULLY ANNEALED.

INSERT: ACETAL PER ASTM D4181.

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

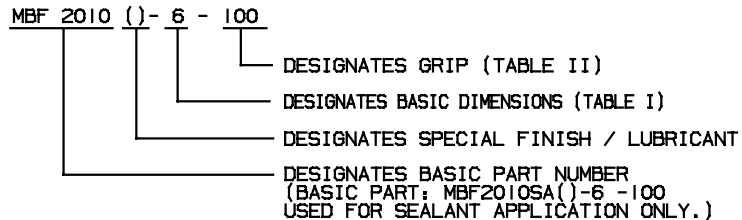
FINISH: (-) NUT: KAL-GARD ANN-RO #1012 CONVERSION COATING OR PHOSPHATE FLOURIDE PER MONOGRAM SPECIFICATION PS741, MAY BE USED AT MANUFACTURER'S OPTION.

SLEEVE & SCREW: PASSIVATE PER ASTM A 967-96, KAL GARD ANN-RO #1013 CONVERSION COATING OPTIONAL.

INSERT: NONE.

LUBRICANTS: DRY FILM LUBE PER MIL-L-46010 TYPE I OR EVERLUBE #812 PER MIL-L-81329, PARAFFIN WAX, 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 INTERSECTION OF THE NUT NOSE ANGLE AND O.D.

3.) COMPOSI-LOK FASTENERS WITH SELECTED COMBINATIONS OF THE ABOVE LUBRICANTS AND FINISHES ARE SPECIALLY CODED AND MAY BE SUBSTITUTED FOR EQUIVALENT NON-CODED PARTS AT MANUFACTURER'S OPTION. SEE INTERCHANGEABILITY SPECIFICATION MBF2007.

△ DISTORTION SHALL NOT PREVENT INSERTION OF THE FASTENER INTO A RING GAUGE OF LENGTH EQUAL TO ONE DIAMETER AND HOLE DIAMETER EQUAL TO A MINIMUM RECOMMENDED HOLE. FORCE FOR INSERTION SHALL NOT EXCEED 5.0 POUNDS.

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EUROPEAN PATENT NO. 0152531

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TITANIUM

**STANDARD**

**MBF 2010**

**SHEET 2 OF 2**