



TABLE I

PART NUMBER	A DIA. THEO.		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
MBF2133-5-()	.332 .325	8,433 8,265	.296	7,52	.167 .166	4,24 4,21	.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
MBF2133-6-()	.385 .378	9,779 9,601	.342	8,69	.201 .200	5,11 5,08	.1985	5,042	.113 .108	2,97 2,74	.027	0,68	.043	1,09	.575	14,61	.030	0,76	.011	0,279	.375	9,52
MBF2133-7-()	.416 .409	10,566 10,388	.373	9,47	.230 .229	5,84 5,81	.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
MBF2133-8-()	.507 .499	12,879 12,675	.463	11,76	.262 .261	6,66 6,63	.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
MBF2133-9-()	.538 .530	13,665 13,462	.494	12,55	.292 .291	7,42 7,39	.2895	7,353	.152 .147	3,96 3,73	.065	1,65	.057	1,45	.815	20,70	.030	0,76	.011	0,279	.500	12,70
MBF2133-10-()	.635 .628	16,129 15,900	.577	14,66	.314 .313	7,98 7,95	.3110	7,899	.152 .147	3,96 3,73	.070	1,78	.075	1,90	.892	22,66	.040	1,02	.014	0,356	.500	12,70
MBF2133-11-()	.666 .657	16,916 16,698	.608	15,44	.346 .345	8,79 8,76	.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
MBF2133-12-()	.762 .752	19,355 19,101	.696	17,68	.377 .376	9,58 9,55	.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 (CONT)

PART NUMBER	MINIMUM AVAILABLE GRIP DASH NO.	INSTALLED DIMENSIONS						MECHANICAL PROPERTIES											
		RECOMMENDED HOLE SIZE		J DIA. MIN.		K MAX.		BREAK-OFF LIMITS Δ		TENSILE STRUCTURAL FAILURE (MIN.) Δ		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
MBF2133-5-()	-150	.166 .165	4,22 4,19	.250	6,35	.300	7,62	+.103 -.000	+2,62 -0,00	1400	6230	3770	16770	1.0	0,113	.0115 0,0095	0,292 0,241	.2832 .2830	7,193 7,188
MBF2133-6-()	-150	.200 .199	5,08 5,05	.300	7,62	.350	8,89	+.103 -.000	+2,62 -0,00	1600	7120	5500	24460	1.5	0,170	.0140 0,114	0,356 0,289	.3272 .3270	8,311 8,306
MBF2133-7-()	-150	.229 .228	5,82 5,79	.350	8,89	.400	10,16	+.103 -.000	+2,62 -0,00	1600	7120	7250	32250	2.0	0,226	.0202 0,176	0,513 0,447	.3315 .3313	8,420 8,415
MBF2133-8-()	-150	.261 .260	6,63 6,60	.400	10,16	.450	11,43	+.103 -.000	+2,62 -0,00	3000	13350	9400	41810	2.5	0,282	.0180 0,151	0,457 0,384	.4320 .4318	10,973 10,968
MBF2133-9-()	-150	.291 .290	7,40 7,36	.450	11,43	.500	12,70	+.103 -.000	+2,62 -0,00	3000	13350	11800	52490	3.0	0,339	.0247 0,224	0,627 0,569	.4320 .4318	10,973 10,968
MBF2133-10-()	-200	.313 .312	7,95 7,92	.475	12,06	.550	13,97	+.103 -.000	+2,62 -0,00	5000	22240	13600	60490	3.5	0,400	.0227 0,201	0,577 0,511	.5389 .5385	13,688 13,678
MBF2133-11-()	-200	.345 .344	8,77 8,74	.525	13,33	.575	14,60	+.103 -.000	+2,62 -0,00	5000	22240	16600	73840	4.0	0,452	.0302 0,276	0,767 0,701	.5389 .5385	13,688 13,678
MBF2133-12-()	-250	.376 .375	9,55 9,52	.575	14,60	.625	15,87	+.103 -.000	+2,62 -0,00	7000	31130	19700	87630	4.0	0,452	.0255 0,228	0,648 0,579	.6532 .6528	16,591 16,581

U.S. PATENT NO. 3643544, 4747202 & 4967463
EUROPEAN PATENT NO. 0152531 & 0216980

MONOGRAM

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TITLE
BLIND FASTENER 130° FLUSH HEAD
FOR: INTERFERENCE FIT APPLICATIONS
IN METALLIC STRUCTURE
A-286 STAINLESS (90 KSI Fsu CRES)

STANDARD

MBF 2133

SHEET 1 OF 2

