

GENERAL PRODUCT LINE DIMENSIONAL SUMMARY

GBR LINE (English Units)

BUMPER	DIMENSIONAL INFORMATION							PERFORMANCE DATA				WEIGHT
	FREE HEIGHT IN	FREE BULGE IN	WIDTH IN	WRENCH OPENING IN	MOUNTING HOLE** IN	SOLID HEIGHT IN	BULGE @ SOLID HT. IN	@ RATED ENERGY		EMERGENCY STOP*		SHIPPING WEIGHT OZ
								ENERGY IN-LBS	PEAK FORCE LBS	ENERGY IN-LBS	PEAK FORCE LBS	
GBR-1	0.97+/-0.030	1.12+/-0.035	0.52+/-0.015	0.38+/-0.015	0.22	0.32	1.51	10	50	15	70	0.15
GBR-2	1.25+/-0.040	1.44+/-0.045	0.76+/-0.025	0.38+/-0.015	0.22	0.41	1.96	20	75	45	200	0.35
GBR-3	1.47+/-0.045	1.68+/-0.050	0.78+/-0.030	0.37+/-0.020	0.22	0.48	2.27	30	100	70	250	0.5
GBR-4	1.72+/-0.055	1.95+/-0.060	1.36+/-0.030	0.38+/-0.015	0.22	0.37	2.68	50	150	70	250	0.8
GBR-5	2.17+/-0.065	2.48+/-0.075	1.70+/-0.030	0.38+/-0.015	0.22	0.47	3.43	100	200	150	400	1.75
GBR-6	2.31+/-0.070	2.61+/-0.080	1.82+/-0.030	0.38+/-0.020	0.22	0.74	3.47	200	375	290	550	2.6
GBR-7	2.65+/-0.080	3.00+/-0.090	1.80+/-0.030	0.48+/-0.020	0.28	0.85	4.03	300	475	375	600	3.45
GBR-8	2.88+/-0.090	3.28+/-0.090	2.00+/-0.030	0.43+/-0.020	0.28	0.92	4.30	400	575	650	1,100	4.9
GBR-9	2.88+/-0.090	3.23+/-0.090	2.65+/-0.030	0.61+/-0.020	0.40	0.92	4.37	600	850	800	1,400	6.2
GBR-10	3.27+/-0.100	3.64+/-0.100	3.25+/-0.040	0.62+/-0.020	0.40	1.03	4.87	800	1,100	1,050	1,500	9.05
GBR-11	3.47+/-0.090	3.94+/-0.090	3.20+/-0.040	0.62+/-0.020	0.40	1.11	5.22	1,000	1,275	1,275	1,700	10.55

* Emergency Stop data is to be applied to applications where the bumper will be struck no more than 20 times with a minimum of 24 hours between uses.

**Mounting hole dimensions are nominal values and provide clearance for the recommended mounting hardware.

GENERAL PRODUCT LINE DIMENSIONAL SUMMARY

GBR LINE (Metric Units)

BUMPER	DIMENSIONAL INFORMATION							PERFORMANCE DATA				WEIGHT
	FREE HEIGHT MM	FREE BULGE MM	WIDTH MM	WRENCH OPENING MM	MOUNTING HOLE** MM	SOLID HEIGHT MM	BULGE @ SOLID HT. MM	@ RATED ENERGY		EMERGENCY STOP*		SHIPPING WEIGHT GRAMS
								ENERGY N-M	PEAK FORCE N	ENERGY N-M	PEAK FORCE N	
GBR-1	24.6 +/- .75	28.4 +/- .9	13.2 +/- .4	9.7 +/- .4	5.6	8.1	38.4	1.1	220	1.7	310	4
GBR-2	31.8 +/-1.0	36.6 +/- 1.1	19.3 +/- .6	9.7 +/- .4	5.6	10.4	49.8	2.3	330	5.1	890	10
GBR-3	37.3 +/- 1.1	42.7 +/- 1.3	19.8 +/- .75	9.4 +/- .5	5.6	12.2	57.7	3.4	450	7.9	1,100	14
GBR-4	43.7 +/- 1.4	49.5 +/- 1.5	34.5 +/- .75	9.7 +/- .4	5.6	9.4	68.1	6	670	7.9	1,100	23
GBR-5	55.1 +/- 1.6	63.0 +/- 1.9	43.2 +/- .75	9.7 +/- .4	5.6	11.9	87.1	11	890	17	1,775	50
GBR-6	58.7 +/- 1.8	66.3 +/- 2.0	46.2 +/- .75	9.7 +/- .5	5.6	18.8	88.1	23	1,675	33	2,450	74
GBR-7	67.3 +/- 2.0	76.2 +/- 2.3	45.7 +/- .75	12.2 +/- .5	7.1	21.6	102.4	34	2,125	42	2,675	98
GBR-8	73.2 +/- 2.3	83.3 +/- 2.3	50.8 +/- .75	10.9 +/- .5	7.1	23.4	109.2	45	2,575	73	5,000	139
GBR-9	73.2 +/- 2.3	82.0 +/- 2.3	67.3 +/- .75	15.5 +/- .5	10.2	23.4	111.0	68	3,775	90	6,200	176
GBR-10	83.1 +/- 2.5	92.5 +/- 2.5	82.6 +/- 1.0	15.7 +/- .5	10.2	26.2	123.7	90	4,900	119	6,675	257
GBR-11	88.1 +/- 2.3	100.1 +/- 2.3	81.3 +/- 1.0	15.7 +/- .5	10.2	28.2	132.6	115	5,775	144	7,550	299

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