

GENERAL PRODUCT LINE DIMENSIONAL SUMMARY

TCB LINE (English Units)

BUMPER	DIMENSIONAL INFORMATION								PERFORMANCE DATA	
	FREE HEIGHT IN.	FREE BULGE		WRENCH OPENING IN.	BASE DIAMETER IN.	MOUNTING HOLE IN.	SOLID HEIGHT IN.	BULGE @ SOLID HT. IN.	RATED ENERGY CAPACITY FT-LBS	PEAK DYNAMIC FORCE LBS.
		TOP IN.	LOWER IN.							
TCB-1B	3.12+/-0.09	2.43+/-0.09	2.50+/-0.09	1.09+/-0.03	2.04+/-0.03	.54+/-0.03	0.69	3.50	330	18,000
TCB-2B	3.76+/-0.12	2.86+/-0.09	2.92+/-0.09	1.29+/-0.03	2.37+/-0.06	.54+/-0.03	0.80	4.50	720	37,000
TCB-3B	3.72+/-0.12	3.28+/-0.09	3.34+/-0.09	1.45+/-0.03	2.70+/-0.03	.54+/-0.03	0.80	5.00	1,400	82,000
TCB-4B	2.09+/-0.06	4.25+/-0.12	N/A	1.11+/-0.03	3.00+/-0.03	.54+/-0.03	0.90	5.25	1,400	102,000
TCB-5B	2.67+/-0.09	3.48+/-0.09	N/A	1.26+/-0.03	2.64+/-0.03	.54+/-0.03	0.75	4.88	1,200	112,000
TCB-6B	3.32+/-0.09	3.94+/-0.12	N/A	1.72+/-0.03	3.62+/-0.05	.54+/-0.03	1.00	5.88	1,300	57,000
TCB-7B	2.25+/-0.06	3.45+/-0.09	N/A	1.46+/-0.03	3.09+/-0.06	.54+/-0.03	0.67	5.25	890	71,000
TCB-8B	3.85+/-0.12	4.17+/-0.12	N/A	1.60+/-0.03	3.24+/-0.05	.80+/-0.03	1.38	5.50	1,450	50,000
TCB-9B	4.40+/-0.12	5.62+/-0.18	5.87+/-0.18	1.55+/-0.06	3.90+/-0.05	.79+/-0.03	2.00	7.50	6,140	185,000
TCB-10B	4.18+/-0.12	5.35+/-0.18	N/A	1.69+/-0.03	4.16+/-0.05	.80+/-0.03	1.63	7.00	3,130	112,000
TCB-11B	5.08+/-0.18	4.56+/-0.12	N/A	1.69+/-0.03	3.95+/-0.05	.80+/-0.03	1.25	7.38	2,730	110,000
TCB-12B	7.31+/-0.18	5.50+/-0.18	5.50+/-0.18	2.52+/-0.03	4.62+/-0.06	.80+/-0.03	1.63	8.44	5,375	160,000
TCB-13B	4.50+/-0.12	5.40+/-0.18	N/A	1.66+/-0.03	4.44+/-0.06	.80+/-0.03	1.00	8.50	4,675	205,000
TCB-14B	6.54+/-0.18	6.60+/-0.18	N/A	2.78+/-0.03	5.77+/-0.06	.80+/-0.03	1.65	10.25	7,440	220,000
TCB-15B	8.80+/-0.18	6.00+/-0.18	6.00+/-0.18	2.88+/-0.03	5.20+/-0.06	.80+/-0.03	1.88	9.50	5,350	135,000
TCB-16B	9.50+/-0.18	5.84+/-0.18	5.88+/-0.18	2.90+/-0.03	5.19+/-0.09	.80+/-0.03	2.50	8.81	6,530	126,000
TCB-17B	9.92+/-0.18	6.97+/-0.18	7.00+/-0.18	3.36+/-0.04	5.95+/-0.06	.80+/-0.03	2.13	11.00	9,375	192,000

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

GENERAL PRODUCT LINE DIMENSIONAL SUMMARY

TCB LINE (Metric Units)

BUMPER	DIMENSIONAL INFORMATION								PERFORMANCE DATA	
	FREE HEIGHT MM	FREE BULGE		WRENCH OPENING MM	BASE DIAMETER MM	MOUNTING HOLE MM	SOLID HEIGHT MM	BULGE @ SOLID HT. MM	RATED ENERGY CAPACITY N-M	PEAK DYNAMIC FORCE N
		TOP MM	LOWER MM							
TCB-1B	79.25 +/- 2.3	61.7 +/- 2.25	63.5 +/- 2.25	27.7 +/- .75	51.8 +/- .75	13.7 +/- .75	17.5	89	450	80,000
TCB-2B	95.5 +/- 3.0	72.6 +/- 2.25	74.2 +/- 2.25	32.8 +/- .75	60.2 +/- 1.5	13.7 +/- .75	20.3	114	975	165,000
TCB-3B	94.5 +/- 3.0	83.3 +/- 2.25	84.8 +/- 2.25	36.8 +/- .75	68.6 +/- .75	13.7 +/- .75	20.3	127	1,900	365,000
TCB-4B	53.1 +/- 1.5	108.0 +/- 3.0	N/A	28.2 +/- .75	76.2 +/- .75	13.7 +/- .75	22.9	133	1,900	455,000
TCB-5B	67.8 +/- 2.25	88.4 +/- 2.25	N/A	32.0 +/- .75	67.1 +/- .75	13.7 +/- .75	19.1	124	1,325	500,000
TCB-6B	84.3 +/- 2.25	100.1 +/- 3.0	N/A	43.7 +/- .75	91.9 +/- 1.25	13.7 +/- .75	25.4	149	1,750	255,000
TCB-7B	57.2 +/- 1.5	87.6 +/- 2.25	N/A	37.1 +/- .75	78.5 +/- 1.5	13.7 +/- .75	17.0	133	1,200	316,000
TCB-8B	97.8 +/- 3.0	105.9 +/- 3.0	N/A	40.6 +/- .75	82.3 +/- 1.25	20.3 +/- .75	35.1	140	1,950	222,500
TCB-9B	111.8 +/- 3.0	142.7 +/- 4.5	149.1 +/- 4.5	39.4 +/- 1.5	99.1 +/- 1.25	20.1 +/- .75	50.8	191	8,325	823,000
TCB-10B	106.2 +/- 3.0	135.9 +/- 4.5	N/A	42.9 +/- .75	105.7 +/- 1.25	20.3 +/- .75	41.4	178	4,250	500,000
TCB-11B	129.0 +/- 4.5	115.8 +/- 3.0	N/A	42.9 +/- .75	100.3 +/- 1.25	20.3 +/- .75	31.8	187	3,700	490,000
TCB-12B	185.7 +/- 4.5	139.7 +/- 4.5	139.7 +/- 4.5	64.0 +/- .75	117.3 +/- 1.5	20.3 +/- .75	41.4	214	7,290	710,000
TCB-13B	114.3 +/- 3.0	137.2 +/- 4.5	N/A	42.2 +/- .75	112.8 +/- 1.5	20.3 +/- .75	25.4	216	6,340	910,000
TCB-14B	166.1 +/- 4.5	167.6 +/- 4.5	N/A	70.6 +/- .75	146.6 +/- 1.5	20.3 +/- .75	41.9	260	10,100	980,000
TCB-15B	223.5 +/- 4.5	152.4 +/- 4.5	152.4 +/- 4.5	73.2 +/- .75	132.1 +/- 1.5	20.3 +/- .75	47.8	241	7,250	600,000
TCB-16B	241.3 +/- 4.5	148.3 +/- 4.5	149.4 +/- 4.5	73.7 +/- .75	131.8 +/- 2.25	20.3 +/- .75	63.5	224	8,600	560,000
TCB-17B	252.0 +/- 4.5	177.0 +/- 4.5	177.8 +/- 4.5	85.3 +/- .75	151.1 +/- 1.5	20.3 +/- .75	54.1	279	12,700	855,000

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