

BGA glider data sheet - Ventus bT (15 & 16.6 meter)

Data source: Flight Manuals & BGA data

Date of issue:

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Weighing Data:

	Kg	Pounds
Max weight 15 M	525	1157
Max weight 16.6 M	430	948
Max weight of non-lifting components (everything except wings)	270	595
BGA concession max weight of non-lifting components [+5%]. This only applies where the manufacturers manual quotes the glider as semi-aerobatic. It then becomes non-aerobatic when flown at this higher weight.	284	625
Max pilot weight (seat load)	110	242
	mm	Inches
Forward C of G limit (aft of datum)	200	7.87
Aft C of G limit (aft of datum)	340	13.39
Pilot position (forward of datum)	518	20.4

Control deflections in mm

	Up	Down	Distance - hinge to measuring point	Max free play
Ailerons	44±4	25±4	132	±3
Elevator	40±4	47±4	157	±3
Rudder	Left 160 ±20	Right 160 ±20	340	
Flaps	28±2	30±2	141	
Brakes	100±2		120	±3
		Weight kg	Moment kg cm	
Elevator		0.67 - 0.85		
Rudder		4.43 - 4.97		
Flap		2.31 - 2.95		
Inner ailerons		1.10 - 1.40		
Outer ailerons		1.02 - 1.30		
Tip ailerons 16.6 meters		0.14 - 0.18		

Longitudinal datum: Wing root LE Horizontal datum: Rear fuselage top 1000:44 tail down

Each 2 Kg nose weight reduces the minimum cockpit load by 5 Kg.

Maximum speeds

	Knots	Kph
VNE	135	250
Rough air	102	190
Rough air Turbo	97	180
Manoeuvre	102	190
Aerotow	97	180
Winch / auto tow	81	150
Flaps 0, +1, +2 & L	86	160
U/C down	97	180
Engine extended	86	160

Max winch weak link: 635 Kg (Tost blue)

VNE at altitude

Height (meters)	Height (feet)	Knots	Kph
Up to 5 000	Up to 16 400	135	250
5 000	16 400	135	250
6 000	19 680	134	249
7 000	22 960	127	235
8 000	26 240	120	222
9 000	29 520	113	209
10 000	32 800	106	197
12 000	39 360	92	171

Max fore & aft play at the wing tip 30mm.

Tyre pressure: Up to 330 Kg (727 lb) AUW 3,5 bar (50 psi),. Over 330 Kg (727 lb) AUW 4,7 bar 67 psi

Non aerobatic or semi-aerobatic without water ballast depending upon model, see individual flight manuals.

Cloud flying permitted

This sheet compiled by: Tim Macfadyen

Revised 21 June 2007 360mm aft C of G limit for Turbo deleted, it was an error.

Revised 18 May 2014 to cover semi-aerobatic as well as non-aerobatic models.