

BGA glider data sheet - Ventus ct 15, 16.6 & 17.6 (Turbo)

Data source: Manufacturer's Flight & Maintenance Manuals

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Weighing Data:

	Kg	Pounds
Max weight engine removed	500	1102
Max weight engine in	430	948
Max weight of non-lifting components (everything except wings) engine removed	241	531
Engine in	280	617
BGA concession non-aerobatic max weight of non-lifting components [+5%] engine removed	253	558
Engine in	294	648
Max pilot weight (seat load)	110	242
Max baggage compartment load	2	4.4

	mm	Inches
Forward C of G limit (aft of datum)	200	7.87
Aft C of G limit (aft of datum)	325	12.8
Pilot position (forward of datum)	518	20.4
Fuel tank position (aft of datum)	300	11.81

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

Longitudinal datum: Wing root LE

Horizontal datum: Rear fuselage top 1000:44 tail down

Maximum speeds

	Knots	Kph
VNE	146	270
Rough air	97	180
Manoeuvre	97	180
Aerotow	97	180
Winch / auto tow	81	150
Flaps 0, +1, +2 & L	86	160
U/C extension	97	180
Engine extension & retraction	97	180
Engine operation	86	160

Max winch weak link: 667Kg (Tost blue)

Semi aerobatic without water or fuel and with engine retracted or removed. Cloud flying permitted

The wheel is 100mm aft of datum, the tail skid is 4096mm aft of the main wheel, (tail wheel 4066mm aft of main wheel).

The 2 kg (4.4 lb) nose weights each reduce min cockpit weight by 5 kg (11 lb).

Put a maximum of 1 kg of water in the fin tank for every 30 kg of water in the wings.

Tyre pressure: 4,7 bar (67 psi). Tail wheel 2 bar (28 psi)

The ASI is connected to the static vents under the wings. The nose and rear fuselage statics are connected together for varios.

This sheet compiled by: Paul Carder, Tim Macfadyen & Frank Birlison 14 July 2020 using the Manuals for s/n 130 dated June 1987.

The data for other serial numbers could be different.

Control deflections in mm

	Up	Down	Distance - hinge to measuring point
Ailerons (41 ± 4	32 ± 3	172 Check with flaps at -1
Elevator	40 ± 4	47 ± 4	157
Rudder	Left & right 160±20		340
Flaps -2	Up 15 ± 2		172 Check with ailerons neutral
-1	0 ± 2		
L	Down 46 ± 2		

Max free play between inner & mid ailerons 2.

Max free play between mid & outer ailerons 1

	Max free play	Weight kg	Moment kg cm
<i>Each elevator</i>	± 3	0.67 - 0.85	2.6 - 3.3
Rudder	Nil	4.43 - 4.97	0 - 2.4
Inner ailerons	± 3 at root	2.31 - 2.95	9.7 - 12.3
Mid ailerons	See above	2.0 - 2.3	1.8 - 3.0
Outer ailerons	See above	1.02 - 1.30	3.2 - 4.1
Tip ailerons 16.6 & 17.6	See above	0.14 - 0.18	0.3 - 0.4

VNE at altitude

Height (meters)	Height (feet)	Knots	Kph
3 000	9840	144	267
4000	13 100	137	253
5 000	16 400	130	240
6 000	19 680	123	227
7 000	22 960	116	215
8 000	26 240	110	203
9 000	29 520	103	191
10 000	32 800	97	180
12 000	39 360	84	156