

BGA glider data sheet - Ventus 2cT 15 & 18 meter Turbo

See separate Data sheet for Ventus 2cxT

Data source: Flight Manuals

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Weighing Data:

	Kg	Pounds
Max weight with water 15 & 18M	525	1157
Max weight without water	15M 430 18M 441	948 972
Max weight of non-lifting components (everything except wings)	310	682
Max mass baggage compartment	2	4.4
Max water capacity (approximately)	174	383
Max pilot weight (seat load)	110	242

Control deflections in mm

	Up	Down	Distance - hinge to measuring point
Elevator	54±2	50±4	161 (Max free play ±3)
Ailerons (flaps 0°)	34±3	26±3	131
Free-play - inboard ailerons ±2, between inboard and mid ailerons ±2, between mid and outboard ±1.			
Rudder	Left & Right 160±20		340
Flaps S1 0° L	31 ± 2 up 0 ± 2 24 ± 2 down		131

	mm	inches
Forward C of G limit (aft of datum)	250	9.84
Aft C of G limit (aft of datum)	380	14.96
Pilot position (forward of datum)	520	20.47

Longitudinal datum: Wing root LE

Horizontal datum: Rear fuselage top tail down 1000:44

Max fore & aft play at the wing tip 30mm. The water in the wings is 179mm aft of datum.

Distance datum to wheel (a) 100mm. Distance wheel to tail skid/wheel (b) 4145mm.

Fin water & battery are 4275mm aft, nose weights are 1740mm forward, battery at panel is 1095mm fwd.

The three nose weights each weigh 2.1 kg (4.6 lb). Each reduces minimum cockpit load by 5 kg (11 lb).

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 operating	97	180
Engine extended ignition on	81	150
Engine extended ignition off	86	160
Extending/retracting engine	65 max 49 min	120 max 90 min

VNE at altitude

Height (Meters)	Height (feet)	Knots	Kph
3000	9 843	139	257
4 000	13 123	132	244
5 000	16 404	125	232
6 000	19 685	119	220
7 000	22 966	112	208
8 000	26 247	106	196
9 000	29 528	100	185
10 000	32 808	89	164
12 000	39 370	81	150

Max winch weak link: 680 daN (Tost Blue)

Tyre pressure: 4 bar (58 psi). Tail wheel 2 bar (29 psi)

Category "Utility" Aerobatic manoeuvres and cloud flying not approved.

LBA Type certificate number 349

The hydraulic wheel brake takes Dot 3, Dot 4 or Dot 5 brake fluid.

This sheet compiled by: Tim Macfadyen 29 April 2015

Rewritten 14 May 2018 to remove confusion between the 2cT and 2cxT versions.