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DHV TESTREPORT EN926-2:2014

GIN BOLERO 6 L

**Type designation** GIN Bolero 6 L  
**Type test reference no** DHV GS-01-2277-17  
**Holder of certification** [GIN Gliders Inc.](#)  
**Manufacturer** [GIN Gliders Inc.](#)  
**Classification** A  
**Winch towing** Yes  
**Number of seats min / max** 1 / 1  
**Accelerator** Yes  
**Trimmers** No



BEHAVIOUR AT MIN WEIGHT IN FLIGHT (95KG)

Test pilots



Harald Buntz

BEHAVIOUR AT MAX WEIGHT IN FLIGHT (120KG)



Sebastian Mackrodt

	A	A
<b>Inflation/take-off</b>	A	A
<b>Rising behaviour</b>	Smooth, easy and constant rising	Smooth, easy and constant rising
<b>Special take off technique required</b>	No	No
<b>Landing</b>	A	A
<b>Special landing technique required</b>	No	No
<b>Speeds in straight flight</b>	A	A
<b>Trim speed more than 30 km/h</b>	Yes	Yes
<b>Speed range using the controls larger than 10 km/h</b>	Yes	Yes
<b>Minimum speed</b>	Less than 25 km/h	Less than 25 km/h
<b>Control movement</b>	A	A
<b>Symmetric control pressure</b>	Increasing	Increasing
<b>Symmetric control travel</b>	Greater than 60 cm	Greater than 65 cm
<b>Pitch stability exiting accelerated flight</b>	A	A
<b>Dive forward angle on exit</b>	Dive forward less than 30°	Dive forward less than 30°
<b>Collapse occurs</b>	No	No
<b>Pitch stability operating controls during accelerated flight</b>	A	A
<b>Collapse occurs</b>	No	No
<b>Roll stability and damping</b>	A	A
<b>Oscillations</b>	Reducing	Reducing
<b>Stability in gentle spirals</b>	A	A
<b>Tendency to return to straight flight</b>	Spontaneous exit	Spontaneous exit
<b>en : Verhalten beim Verlassen einer vollständigen Steilspirale</b>	A	A
<b>en : Erstes Ansprechen des Gleitschirms (die ersten 180°)</b>	en : unmittelbare Verringerung der Drehgeschwindigkeit	en : unmittelbare Verringerung der Drehgeschwindigkeit
<b>Tendency to return to straight flight</b>	en : selbstständiges Ausleiten (G-Kraft abnehmend, Drehgeschwindigkeit	en : selbstständiges Ausleiten (G-Kraft abnehmend, Drehgeschwindigkeit

abnehmend)  
**Turn angle to recover normal flight** Less than 720°, spontaneous recovery

abnehmend)  
Less than 720°, spontaneous recovery

**Symmetric front collapse**

A

A

**Entry** Rocking back less than 45°  
**Recovery** Spontaneous in less than 3 s  
**Dive forward angle on exit** Dive forward 0° to 30°  
**Change of course** Keeping course  
**Cascade occurs** No  
**en : Faltleinen wurden benutzt** no

Rocking back less than 45°  
Spontaneous in less than 3 s  
Dive forward 0° to 30°  
Keeping course  
No  
no

**en : Symmetrischer Frontklapper mindestens 50% Flügeltiefe**

A

A

**Entry** Rocking back less than 45°  
**Recovery** Spontaneous in less than 3 s  
**Dive forward angle on exit** Dive forward 0° to 30°  
**Change of course** Keeping course  
**Cascade occurs** No  
**en : Faltleinen wurden benutzt** no

Rocking back less than 45°  
Spontaneous in less than 3 s  
Dive forward 0° to 30°  
Keeping course  
No  
no

**en : Symmetrischer Frontklapper im beschleunigten Flug mindestens 50% Flügeltiefe**

A

A

**Entry** Rocking back less than 45°  
**Recovery** Spontaneous in less than 3 s  
**Dive forward angle on exit** Dive forward 0° to 30°  
**Change of course** Entering a turn of less than 90°  
**Cascade occurs** No  
**en : Faltleinen wurden benutzt** no

Rocking back less than 45°  
Spontaneous in less than 3 s  
Dive forward 0° to 30°  
Entering a turn of less than 90°  
No  
no

**Exiting deep stall (parachutal stall)**

A

A

**Deep stall achieved** Yes  
**Recovery** Spontaneous in less than 3 s  
**Dive forward angle on exit** Dive forward 0° to 30°  
**Change of course** Changing course less than 45°  
**Cascade occurs** No

Yes  
Spontaneous in less than 3 s  
Dive forward 0° to 30°  
Changing course less than 45°  
No

**High angle of attack recovery**

A

A

**Recovery** Spontaneous in less than 3 s  
**Cascade occurs** No

Spontaneous in less than 3 s  
No

**Recovery from a developed full stall**

A

A

**Dive forward angle on exit** Dive forward 0° to 30°  
**Collapse** No collapse  
**Cascade occurs (other than collapses)** No  
**Rocking back** Less than 45°  
**Line tension** Most lines tight

Dive forward 0° to 30°  
No collapse  
No  
Less than 45°  
Most lines tight

**en : Kleiner einseitiger Klapper**

A

A

**Change of course until re-inflation** Less than 90°  
**Maximum dive forward or roll angle** Dive or roll angle 0° to 15°  
**Re-inflation behaviour** Spontaneous re-inflation  
**Total change of course** Less than 360°  
**Collapse on the opposite side occurs** en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung)  
**Twist occurs** No  
**Cascade occurs** No  
**en : Faltleinen wurden benutzt** no

Less than 90°  
Dive or roll angle 0° to 15°  
Spontaneous re-inflation  
Less than 360°  
en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung)  
No  
No  
no

**en : Großer einseitiger Klapper**

A

A

**Change of course until re-inflation** 90° to 180°  
**Maximum dive forward or roll angle** Dive or roll angle 0° to 15°  
**Re-inflation behaviour** Spontaneous re-inflation  
**Total change of course** Less than 360°  
**Collapse on the opposite side occurs** en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung)  
**Twist occurs** No  
**Cascade occurs** No  
**en : Faltleinen wurden benutzt** no

90° to 180°  
Dive or roll angle 0° to 15°  
Spontaneous re-inflation  
Less than 360°  
en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung)  
No  
No  
no

**en : Kleiner einseitiger Klapper im beschleunigten Flug**

A

A

**Change of course until re-inflation** Less than 90°  
**Maximum dive forward or roll angle** Dive or roll angle 15° to 45°  
**Re-inflation behaviour** Spontaneous re-inflation  
**Total change of course** Less than 360°  
**Collapse on the opposite side occurs** en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung)  
**Twist occurs** No

Less than 90°  
Dive or roll angle 15° to 45°  
Spontaneous re-inflation  
Less than 360°  
en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung)  
No

	Cascade occurs No en : Faltleinen wurden benutzt no	No no
<b>en : Großer einseitiger Klapper im beschleunigten Flug</b>	<b>A</b>	<b>A</b>
<b>Change of course until re-inflation</b>	Less than 90°	Less than 90°
<b>Maximum dive forward or roll angle</b>	Dive or roll angle 15° to 45°	Dive or roll angle 15° to 45°
<b>Re-inflation behaviour</b>	Spontaneous re-inflation	Spontaneous re-inflation
<b>Total change of course</b>	Less than 360°	Less than 360°
<b>Collapse on the opposite side occurs</b>	en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung)	en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung)
<b>Twist occurs</b>	No	No
<b>Cascade occurs</b>	No	No
<b>en : Faltleinen wurden benutzt</b>	no	no
<b>Directional control with a maintained asymmetric collapse</b>	<b>A</b>	<b>A</b>
<b>Able to keep course</b>	Yes	Yes
<b>180° turn away from the collapsed side possible in 10 s</b>	Yes	Yes
<b>Amount of control range between turn and stall or spin</b>	More than 50 % of the symmetric control travel	More than 50 % of the symmetric control travel
<b>Trim speed spin tendency</b>	<b>A</b>	<b>A</b>
<b>Spin occurs</b>	No	No
<b>Low speed spin tendency</b>	<b>A</b>	<b>A</b>
<b>Spin occurs</b>	No	No
<b>Recovery from a developed spin</b>	<b>A</b>	<b>A</b>
<b>Spin rotation angle after release</b>	Stops spinning in less than 90°	Stops spinning in less than 90°
<b>Cascade occurs</b>	No	No
<b>B-line stall</b>	<b>A</b>	<b>A</b>
<b>Change of course before release</b>	Changing course less than 45°	Changing course less than 45°
<b>Behaviour before release</b>	Remains stable with straight span	Remains stable with straight span
<b>Recovery</b>	Spontaneous in less than 3 s	Spontaneous in less than 3 s
<b>Dive forward angle on exit</b>	Dive forward 0° to 30°	Dive forward 0° to 30°
<b>Cascade occurs</b>	No	No
<b>Big ears</b>	<b>A</b>	<b>A</b>
<b>Entry procedure</b>	Dedicated controls	Dedicated controls
<b>Behaviour during big ears</b>	Stable flight	Stable flight
<b>Recovery</b>	Spontaneous in less than 3 s	Spontaneous in less than 3 s
<b>Dive forward angle on exit</b>	Dive forward 0° to 30°	Dive forward 0° to 30°
<b>Big ears in accelerated flight</b>	<b>A</b>	<b>A</b>
<b>Entry procedure</b>	Dedicated controls	Dedicated controls
<b>Behaviour during big ears</b>	Stable flight	Stable flight
<b>Recovery</b>	Spontaneous in less than 3 s	Spontaneous in less than 3 s
<b>Dive forward angle on exit</b>	Dive forward 0° to 30°	Dive forward 0° to 30°
<b>Behaviour immediately after releasing the accelerator while maintaining big ears</b>	Stable flight	Stable flight
<b>Alternative means of directional control</b>	<b>A</b>	<b>A</b>
<b>180° turn achievable in 20 s</b>	Yes	Yes
<b>Stall or spin occurs</b>	No	No
<b>Any other flight procedure and/or configuration described in the user's manual</b>		
No other flight procedure or configuration described in the user's manual		