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DHV TESTREPORT EN926-2:2014

GIN VANTAGE 2 23

Type designation GIN Vantage 2 23
Type test reference no DHV GS-01-2296-17
Holder of certification [GIN Gliders Inc.](#)
Manufacturer [GIN Gliders Inc.](#)
Classification B
Winch towing Yes
Number of seats min / max 1 / 1
Accelerator Yes
Trimmers No

BEHAVIOUR AT MIN WEIGHT IN FLIGHT (65KG)

BEHAVIOUR AT MAX WEIGHT IN FLIGHT (85KG)

Test pilots **Joanna Di Grigoli**



Harald Buntz

Expert Beni Stocker

Inflation/take-off	A	A
Rising behaviour Smooth, easy and constant rising		Smooth, easy and constant rising
Special take off technique required No		No
Landing	A	A
Special landing technique required No		No
Speeds in straight flight	A	A
Trim speed more than 30 km/h Yes		Yes
Speed range using the controls larger than 10 km/h Yes		Yes
Minimum speed Less than 25 km/h		Less than 25 km/h
Control movement	A	A
Symmetric control pressure Increasing		Increasing
Symmetric control travel Greater than 55 cm		Greater than 60 cm
Pitch stability exiting accelerated flight	A	A
Dive forward angle on exit Dive forward less than 30°		Dive forward less than 30°
Collapse occurs No		No
Pitch stability operating controls during accelerated flight	A	A
Collapse occurs No		No
Roll stability and damping	A	A
Oscillations Reducing		Reducing
Stability in gentle spirals	A	A
Tendency to return to straight flight Spontaneous exit		Spontaneous exit
en : Verhalten beim Verlassen einer vollständigen Steilspirale	B	B
en : Erstes Ansprechen des Gleitschirms (die ersten 180°)		en : keine unmittelbare Reaktion
Tendency to return to straight flight en : selbstständiges Ausleiten (G-Kraft abnehmend, Drehgeschwindigkeit abnehmend)		en : selbstständiges Ausleiten (G-Kraft abnehmend, Drehgeschwindigkeit abnehmend)
Turn angle to recover normal flight Less than 720°, spontaneous recovery		Less than 720°, spontaneous recovery
Symmetric front collapse	A	A
Entry Rocking back less than 45°		Rocking back less than 45°
Recovery Spontaneous in less than 3 s		Spontaneous in less than 3 s
Dive forward angle on exit Dive forward 0° to 30°		Dive forward 0° to 30°
Change of course Keeping course		Keeping course

Cascade occurs No	No	No
en : Faltleinen wurden benutzt no	no	no
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en : Symmetrischer Frontklapper mindestens 50% Flügeltiefe	B	B
Entry Rocking back less than 45°	Rocking back less than 45°	Rocking back less than 45°
Recovery Spontaneous in 3 s to 5 s	Spontaneous in 3 s to 5 s	Spontaneous in 3 s to 5 s
Dive forward angle on exit Dive forward 0° to 30°	Dive forward 0° to 30°	Dive forward 0° to 30°
Change of course Entering a turn of less than 90°	Keeping course	Keeping course
Cascade occurs No	No	No
en : Faltleinen wurden benutzt no	no	no
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en : Symmetrischer Frontklapper im beschleunigten Flug	B	B
Entry Rocking back less than 45°	Rocking back less than 45°	Rocking back less than 45°
Recovery Spontaneous in 3 s to 5 s	Spontaneous in 3 s to 5 s	Spontaneous in 3 s to 5 s
Dive forward angle on exit Dive forward 30° to 60°	Dive forward 0° to 30°	Dive forward 0° to 30°
Change of course Entering a turn of less than 90°	Keeping course	Keeping course
Cascade occurs No	No	No
en : Faltleinen wurden benutzt no	no	no
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Exiting deep stall (parachutal stall)	A	A
Deep stall achieved Yes	Yes	Yes
Recovery Spontaneous in less than 3 s	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit Dive forward 0° to 30°	Dive forward 0° to 30°	Dive forward 0° to 30°
Change of course Changing course less than 45°	Changing course less than 45°	Changing course less than 45°
Cascade occurs No	No	No
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High angle of attack recovery	A	A
Recovery Spontaneous in less than 3 s	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Cascade occurs No	No	No
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Recovery from a developed full stall	A	A
Dive forward angle on exit Dive forward 0° to 30°	Dive forward 0° to 30°	Dive forward 0° to 30°
Collapse No collapse	No collapse	No collapse
Cascade occurs (other than collapses) No	No	No
Rocking back Less than 45°	Less than 45°	Less than 45°
Line tension Most lines tight	Most lines tight	Most lines tight
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en : Kleiner einseitiger Klapper	A	A
Change of course until re-inflation Less than 90°	Less than 90°	Less than 90°
Maximum dive forward or roll angle Dive or roll angle 15° to 45°	Dive or roll angle 15° to 45°	Dive or roll angle 15° to 45°
Re-inflation behaviour Spontaneous re-inflation	Spontaneous re-inflation	Spontaneous re-inflation
Total change of course Less than 360°	Less than 360°	Less than 360°
Collapse on the opposite side occurs 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)	en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung)
Twist occurs No	No	No
Cascade occurs No	No	No
en : Faltleinen wurden benutzt no	no	no
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en : Großer einseitiger Klapper	A	B
Change of course until re-inflation Less than 90°	90° to 180°	90° to 180°
Maximum dive forward or roll angle Dive or roll angle 15° to 45°	Dive or roll angle 15° to 45°	Dive or roll angle 15° to 45°
Re-inflation behaviour Spontaneous re-inflation	Spontaneous re-inflation	Spontaneous re-inflation
Total change of course Less than 360°	Less than 360°	Less than 360°
Collapse on the opposite side occurs 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)	en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung)
Twist occurs No	No	No
Cascade occurs No	No	No
en : Faltleinen wurden benutzt no	no	no
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en : Kleiner einseitiger Klapper im beschleunigten Flug	A	B
Change of course until re-inflation Less than 90°	90° to 180°	90° to 180°
Maximum dive forward or roll angle Dive or roll angle 15° to 45°	Dive or roll angle 15° to 45°	Dive or roll angle 15° to 45°
Re-inflation behaviour Spontaneous re-inflation	Spontaneous re-inflation	Spontaneous re-inflation
Total change of course Less than 360°	Less than 360°	Less than 360°
Collapse on the opposite side occurs 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)	en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung)
Twist occurs No	No	No
Cascade occurs No	No	No
en : Faltleinen wurden benutzt no	no	no
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en : Großer einseitiger Klapper im beschleunigten Flug	B	B
Change of course until re-inflation 90° to 180°	90° to 180°	90° to 180°
Maximum dive forward or roll angle Dive or roll angle 15° to 45°	Dive or roll angle 15° to 45°	Dive or roll angle 15° to 45°
Re-inflation behaviour Spontaneous re-inflation	Spontaneous re-inflation	Spontaneous re-inflation
Total change of course Less than 360°	Less than 360°	Less than 360°
Collapse on the opposite side occurs 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)	en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung)
Twist occurs No	No	No

	Cascade occurs No en : Faltleinen wurden benutzt no	No no
Directional control with a maintained asymmetric collapse	A	A
	Able to keep course Yes 180° turn away from the collapsed side possible in 10 s Yes Amount of control range between turn and stall or spin More than 50 % of the symmetric control travel	Yes Yes More than 50 % of the symmetric control travel
Trim speed spin tendency	A	A
	Spin occurs No	No
Low speed spin tendency	A	A
	Spin occurs No	No
Recovery from a developed spin	A	A
	Spin rotation angle after release Stops spinning in less than 90° Cascade occurs No	Stops spinning in less than 90° No
B-line stall	A	A
	Change of course before release Changing course less than 45° Behaviour before release Remains stable with straight span Recovery Spontaneous in less than 3 s Dive forward angle on exit Dive forward 0° to 30° Cascade occurs No	Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No
Big ears	A	A
	Entry procedure Dedicated controls Behaviour during big ears Stable flight Recovery Spontaneous in less than 3 s Dive forward angle on exit Dive forward 0° to 30°	Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°
Big ears in accelerated flight	A	A
	Entry procedure Dedicated controls Behaviour during big ears Stable flight Recovery Spontaneous in 3 s to 5 s Dive forward angle on exit Dive forward 0° to 30° Behaviour immediately after releasing the accelerator while maintaining big ears Stable flight	Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight
Alternative means of directional control	A	A
	180° turn achievable in 20 s Yes Stall or spin occurs No	Yes No
Any other flight procedure and/or configuration described in the user's manual		
No other flight procedure or configuration described in the user's manual		