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DHV TESTREPORT EN926-2:2014



NOVA BION 2 M

Type designation NOVA Bion 2 M
Type test reference no DHV GS-01-2246-16
Holder of certification [NOVA Vertriebsgesellschaft m.b.H.](#)
Manufacturer [NOVA Vertriebsgesellschaft m.b.H.](#)
Classification B
Winch towing Yes
Number of seats min / max 1 / 2

Accelerator No**Trimmers** Yes

BEHAVIOUR AT MIN WEIGHT IN FLIGHT (90KG)

Test pilots

Harald Buntz

A

Inflation / take-off**Rising behaviour** Smooth, easy and constant rising**Special take off technique required** No**Landing**

A

Special landing technique required No**Speeds in straight flight**

A

Trim speed more than 30 km/h Yes**Speed range using the controls larger than 10 km/h** Yes**Minimum speed** Less than 25 km/h**Control movement**

A

Symmetric control pressure Increasing**Symmetric control travel** Greater than 60 cm**Pitch stability exiting accelerated flight**

Not carried out because the glider is not equipped with an accelerator

Pitch stability operating controls during accelerated flight

Not carried out because the glider is not equipped with an accelerator

Roll stability and damping

A

Oscillations Reducing**Stability in gentle spirals**

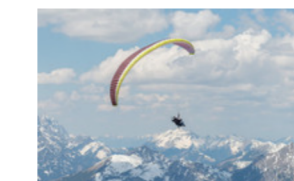
A

Tendency to return to straight flight Spontaneous exit**en : Verhalten beim Verlassen einer vollständigen Steilspirale**

A

en : Erstes Ansprechen des Gleitschirms (die ersten 180°) en : unmittelbare Verringerung der Drehgeschwindigkeit**Tendency to return to straight flight** en : selbstständiges Ausleiten (G-Kraft abnehmend, Drehgeschwindigkeit abnehmend)**Turn angle to recover normal flight** Less than 720°, spontaneous recovery**Symmetric front collapse**

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**en : Symmetrischer Frontklapper mindestens** B

BEHAVIOUR AT MAX WEIGHT IN FLIGHT (200KG)



Sebastian Mackrodt

A

Rising behaviour Smooth, easy and constant rising**Special take off technique required** No

A

Special landing technique required No

A

Trim speed more than 30 km/h Yes**Speed range using the controls larger than 10 km/h** Yes**Minimum speed** Less than 25 km/h

A

Symmetric control pressure Increasing**Symmetric control travel** Greater than 65 cm

50% Flügeltiefe

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 30° to 60°	Dive forward 30° to 60°
Change of course	Keeping course	Keeping course
Cascade occurs	No	No
en : Faltleinen wurden benutzt	no	no

en : Symmetrischer Frontklapper im beschleunigten Flug

Not carried out because the glider is not equipped with an accelerator

Exiting deep stall (parachutal stall)

A	B
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

High angle of attack recovery

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

Recovery from a developed full stall

A	B
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

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

en : Großer einseitiger Klapper

B	B
Change of course until re-inflation	90° to 180°
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
Cascade occurs	No
en : Faltleinen wurden benutzt	no

en : Kleiner einseitiger Klapper im beschleunigten Flug

Not carried out because the glider is not equipped with an accelerator

en : Großer einseitiger Klapper im beschleunigten Flug

Not carried out because the glider is not equipped with an accelerator

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

Trim speed spin tendency

A	A
Spin occurs	No

Low speed spin tendency

A	A
Spin occurs	No

Recovery from a developed spin

A	A
Spin rotation angle after release	Stops spinning in less than 90°
Cascade occurs	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 30° to 60°
Cascade occurs	No

<u>Big ears</u>	A	B
Entry procedure	Dedicated controls	Dedicated controls
Behaviour during big ears	Stable flight	Stable flight
Recovery	Spontaneous in less than 3 s	Spontaneous in 3 s to 5 s
Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°

Big ears in accelerated flight

Not carried out because the glider is not equipped with an accelerator

<u>Alternative means of directional control</u>	A	A
180° turn achievable in 20 s	Yes	Yes
Stall or spin occurs	No	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