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DHV TESTREPORT EN

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PARTS LIST

OPERATING INSTRUCTION

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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

BEHAVIOUR AT MAX WEIGHT IN FLIGHT (200KG)



Sebastian Mackrodt

Inflation/take-off

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

A

Smooth, easy and constant rising
 No

Landing

Special landing technique required No

A

No

Speeds in straight flight

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

Yes
 Yes
 Less than 25 km/h

Control movement

Symmetric control pressure Increasing
Symmetric control travel Greater than 60 cm

A

Increasing
 Greater than 65 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

Oscillations Reducing

A

Reducing

Stability in gentle spirals

Tendency to return to straight flight Spontaneous exit

A

Spontaneous exit

en : Verhalten beim Verlassen einer vollständigen Steilspirale

en : Erstes Ansprechen des Gleitschirms (die ersten 180°) 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

A

en : unmittelbare Verringerung der Drehgeschwindigkeit
 en : selbstständiges Ausleiten (G-Kraft abnehmend, Drehgeschwindigkeit abnehmend)
 Less than 720°, spontaneous recovery

Symmetric front collapse

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 : Fallleinen wurden benutzt no

A

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

en : Symmetrischer Frontklapper mindestens

B

B

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	Yes
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 30° to 60°
Change of course Changing course less than 45°	Changing course less than 45°
Cascade occurs No	No

High angle of attack recovery

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

Recovery from a developed full stall

A	B
Dive forward angle on exit Dive forward 0° to 30°	Dive forward 30° to 60°
Collapse No collapse	No collapse
Cascade occurs (other than collapses) No	No
Rocking back Less than 45°	Less than 45°
Line tension Most lines tight	Most lines tight

en : Kleiner einseitiger Klapper

A	A
Change of course until re-inflation Less than 90°	Less than 90°
Maximum dive forward or roll angle Dive or roll angle 0° to 15°	Dive or roll angle 15° to 45°
Re-inflation behaviour Spontaneous re-inflation	Spontaneous re-inflation
Total change of course 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)
Twist occurs No	No
Cascade occurs No	No
en : Faltleinen wurden benutzt no	no

en : Großer einseitiger Klapper

B	B
Change of course until re-inflation 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°
Re-inflation behaviour Spontaneous re-inflation	Spontaneous re-inflation
Total change of course 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)
Twist occurs No	No
Cascade occurs No	No
en : Faltleinen wurden benutzt no	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	Yes
180° turn away from the collapsed side possible in 10 s Yes	Yes
Amount of control range between turn and stall or spin More than 50 % of the symmetric control travel	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°	Stops spinning in less than 90°
Cascade occurs No	No

B-line stall

A	A
Change of course before release Changing course less than 45°	Changing course less than 45°
Behaviour before release Remains stable with straight span	Remains stable with straight span
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°
Cascade occurs No	No

Big ears

A

B

	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

Alternative means of directional control

A

A

	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