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DHV TESTREPORT EN926-2:2014

NOVA ION 5M LIGHT

| | |
|---------------------------|---|
| Type designation | NOVA Ion 5M light |
| Type test reference no | DHV GS-01-2369-18 |
| 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 / 1 |
| Accelerator | Yes |
| Trimmers | No |



BEHAVIOUR AT MIN WEIGHT IN FLIGHT (90KG)

BEHAVIOUR AT MAX WEIGHT IN FLIGHT (110KG)

Test pilots



Harald Buntz



Sebastian Mackrodt

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 60 cm | Greater than 65 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

A

A

| | | |
|---|---|---|
| en : Erstes Ansprechen des Gleitschirms (die ersten 180°) | en : unmittelbare Verringerung der Drehgeschwindigkeit | en : unmittelbare Verringerung der Drehgeschwindigkeit |
| 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 | Entering a turn of less than 90° | Keeping course |
| Cascade occurs | No | No |
| en : Faltleinen wurden benutzt | no | no |
| en : Symmetrischer Frontklapper mindestens 50% Flügeltiefe | B | 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 30° to 60° | Dive forward 0° to 30° |
| Change of course | Entering a turn of less than 90° | Keeping course |
| Cascade occurs | No | No |
| en : Faltleinen wurden benutzt | no | no |
| en : Symmetrischer Frontklapper im beschleunigten Flug mindestens 50% Flügeltiefe | B | 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 30° to 60° | Dive forward 0° to 30° |
| Change of course | Entering a turn of less than 90° | Entering a turn of less than 90° |
| Cascade occurs | No | No |
| en : Faltleinen wurden benutzt | no | no |
| Exiting deep stall (parachutal stall) | A | A |
| 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 0° to 30° |
| 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 | A |
| Dive forward angle on exit | Dive forward 0° to 30° | Dive forward 0° to 30° |
| 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 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 : Großer einseitiger Klapper | B | A |
| Change of course until re-inflation | 90° to 180° | Less than 90° |
| 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 | A | A |
| Change of course until re-inflation | 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° |
| 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 im beschleunigten Flug | | |
| | 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 |
| 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 0° to 30° |
| Cascade occurs | No | No |
| Big ears | | |
| | A | A |
| Entry procedure | Dedicated controls | Dedicated controls |
| Behaviour during big ears | Stable flight | Stable flight |
| 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° |
| Big ears in accelerated flight | | |
| | A | A |
| Entry procedure | Dedicated controls | Dedicated controls |
| Behaviour during big ears | Stable flight | Stable flight |
| 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° |
| Behaviour immediately after releasing the accelerator while maintaining big ears | Stable flight | Stable flight |
| Alternative means of directional control | | |
| | 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 | | |