TECHNICAL DATA DHV TESTREPORT LTF DHV TESTREPORT EN DATASHEET PARTS LIST OPERATING INSTRUCTION





## DHV TESTREPORT EN926-2:2005

**NOVA ION3 XXS** 

Type designation NOVA Ion3 XXS Type test reference no DHV GS-01-2100-13

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 (55KG)

**Test pilots Ines Sattler** 



BEHAVIOUR AT MAX WEIGHT IN FLIGHT (80KG)



## **Expert Beni Stocker**

- Apol		
Inflation/take-off	A	A
Rising behaviou	r Smooth, easy and constant rising	Smooth, easy and constant rising
Special take off technique required	d No	No
Landing	A	A
Special landing technique required	<b>d</b> No	No
Speeds in straight flight	A	A
Trim speed more than 30 km/l	<b>n</b> Yes	Yes
Speed range using the controls larger than 10 km/l		Yes
•	d Less than 25 km/h	Less than 25 km/h
Control movement	A	A
Symmetric control pressure	e Increasing	Increasing
Symmetric control trave	_	Greater than 60 cm
Pitch stability exiting accelerated flight	A	A
Dive forward angle on exi	<b>t</b> Dive forward less than 30°	Dive forward less than 30°
Collapse occur	s No	No
Pitch stability operating controls during accelerated flight	A	А
Collapse occur	s No	No
Roll stability and damping	A	A
Oscillation	<b>s</b> Reducing	Reducing
Stability in gentle spirals	A	A
Tendency to return to straight fligh	<b>t</b> Spontaneous exit	Spontaneous exit
Behaviour in a steeply banked turn 🎩	A	В
Sink rate after two turns	<b>s</b> 12 m/s to 14 m/s	More than 14 m/s
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°

Entering a turn of less than 90°

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Cascade occurs	No	No
Symmetric front collapse in accelerated flight	А	В
Entry	Rocking back less than 45°	Rocking back less than 45°
Recovery	Spontaneous in less than 3 s	Spontaneous in 3 s to 5 s
Dive forward angle on exit		Dive forward 0° to 30°
_	Entering a turn of less than 90°	Entering a turn of less than 90°
Cascade occurs	No	No
Exiting deep stall (parachutal stall)	A	A
Deep stall achieved	Yes	Yes
	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
<del></del>	<u> </u>	
Dive forward angle on exit		Dive forward 0° to 30°
•	No collapse	No collapse
Cascade occurs (other than collapses) Rocking back		No Less than 45°
_	Most lines tight	Most lines tight
Line tension	riost illes ugit	Most lines tight
Asymmetric collapse 45-50%	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 Less than 360°
Total change of course Collapse on the opposite side occurs		No
Twist occurs		No
Cascade occurs		No
Asymmetric collapse 70-75%	B	A
Change of course until re-inflation	00° to 180°	Less than 90°
Maximum dive forward or roll angle		Dive or roll angle 15° to 45°
Re-inflation behaviour	<del>-</del>	Spontaneous re-inflation
Total change of course	•	Less than 360°
Collapse on the opposite side occurs		No.
		Ne
Twist occurs		No
Cascade occurs	No	No
Asymmetric collapse 45-50% in accelerated	<b>A</b>	A
flight	<u> </u>	<u>i</u>
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 Twist occurs		No No
Cascade occurs		No
Asymmetric collapse 70-75% in accelerated flight	В	В
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°
Re-inflation behaviour	_	Spontaneous re-inflation
Total change of course	Less than 360°	Less than 360°
	No	No
Collapse on the opposite side occurs	INU	
Collapse on the opposite side occurs Twist occurs		No
	No	No No

Able to keep course Yes Yes 180° turn away from the collapsed side possible Yes Yes Amount of control range between turn and stall More than 50 % of the symmetric control More than 50 % of the symmetric or spin travel control travel Trim speed spin tendency Α Spin occurs No Nο Α Spin occurs No Recovery from a developed spin Α Spin rotation angle after release Stops spinning in less than 90° Stops spinning in less than 90° Cascade occurs No **B-line stall** Α 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 0° to 30° Dive forward 0° to 30° Cascade occurs No Nο Big ears !B Entry procedure Dedicated controls Dedicated controls Behaviour during big ears Stable flight Stable flight **Recovery** 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° Big ears in accelerated flight Α Entry procedure Dedicated controls Dedicated controls Behaviour during big ears Stable flight Stable flight **Recovery** Spontaneous in 3 s to 5 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 Stable flight Stable flight accelerator while maintaining big ears Behaviour exiting a steep spiral Tendency to return to straight flight Spontaneous exit Spontaneous exit Turn angle to recover normal flight Less than 720°, spontaneous recovery Less than 720°, spontaneous recover Sink rate when evaluating spiral stability [m/s] 14 Alternative means of directional control A Α 180° turn achievable in 20 s Yes Yes Stall or spin occurs No Nο

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  $\ensuremath{\mathsf{N}}$ 

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