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





## DHV TESTREPORT EN926-2:2005

NOVA ION3 XS

Type designation NOVA Ion3 XS Type test reference no DHV GS-01-2101-13

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 (70KG)





	Beni Stocker	Harald Buntz
Inflation/take-off	A	A
Rising behaviou	Smooth, easy and constant rising	Smooth, easy and constant rising
Special take off technique required	l No	No
<u>Landing</u>	A	A
Special landing technique required	l No	No
Speeds in straight flight	A	A
Trim speed more than 30 km/h	ı Yes	Yes
Speed range using the controls larger than 10 km/h		Yes
•	Less than 25 km/h	Less than 25 km/h
Control movement	A	A
Symmetric control pressure	· Increasing	Increasing
Symmetric control trave	Greater than 55 cm	Greater than 60 cm
Pitch stability exiting accelerated flight	A	A
Dive forward angle on exit	t Dive forward less than 30°	Dive forward less than 30°
Collapse occurs	s No	No
Pitch stability operating controls during accelerated flight	A	A
Collapse occurs	s No	No
Roll stability and damping	A	A
Oscillations	Reducing	Reducing
Stability in gentle spirals	Α	A
Tendency to return to straight flight	t Spontaneous exit	Spontaneous exit
Behaviour in a steeply banked turn 🗘	А	В
Sink rate after two turns	s 12 m/s to 14 m/s	More than 14 m/s
Symmetric front collapse	A	Α
Entry	Rocking back less than 45°	Rocking back less than 45°
-	Spontaneous in less than 3 s	Spontaneous in less than 3 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	5 No	No

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Symmetric front collapse in accelerated	A	В
<u>flight</u>	<u> </u>	
	Rocking back less than 45°	Rocking back less than 45°
	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	s No	No
Exiting deep stall (parachutal stall)	A	A
Deep stall achieved	Vac	Yes
	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit		Dive forward 0° to 30°
_	Changing course less than 45°	Changing course less than 45°
Cascade occurs		No
	1-	:-
High angle of attack recovery	<u> </u> A	¦ <b>A</b>
-	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Cascade occurs	s 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°
	No collapse	No collapse
Cascade occurs (other than collapses)		No
Rocking back		Less than 45°
Line tension	Most lines tight	Most lines tight
Asymmetric collapse 45-50%	A	A
i <del></del>	<u> </u>	
Change of course until re-inflation Maximum dive forward or roll angle		Less than 90° 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		No
Twist occurs		No
Cascade occurs	s No	No
Asymmetric collapse 70-75%	В	A
·	<u> </u>	
Change of course until re-inflation Maximum dive forward or roll angle		Less than 90°
Re-inflation behaviour	3	Dive or roll angle 15° to 45° Spontaneous re-inflation
Total change of course		Less than 360°
Collapse on the opposite side occurs		No
Twist occurs		No
Cascade occurs	s No	No
Asymmetric collapse 45-50% in accelerated		
flight		
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
i wist occurs		No
Cascade occurs	5 NO	
Asymmetric collapse 70-75% in accelerated		В
Asymmetric collapse 70-75% in accelerated flight	В	
Asymmetric collapse 70-75% in accelerated flight  Change of course until re-inflation	<b>B</b> 90° to 180°	90° to 180°
Asymmetric collapse 70-75% in accelerated flight  Change of course until re-inflation Maximum dive forward or roll angle	90° to 180° Dive or roll angle 15° to 45°	90° to 180° Dive or roll angle 15° to 45°
Asymmetric collapse 70-75% in accelerated flight  Change of course until re-inflation  Maximum dive forward or roll angle  Re-inflation behaviour	90° to 180° Dive or roll angle 15° to 45° Spontaneous re-inflation	90° to 180° Dive or roll angle 15° to 45° Spontaneous re-inflation
Asymmetric collapse 70-75% in accelerated flight  Change of course until re-inflation  Maximum dive forward or roll angle  Re-inflation behaviour  Total change of course	90° to 180° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360°	90° to 180° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360°
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Asymmetric collapse 70-75% in accelerated  flight  Change of course until re-inflation  Maximum dive forward or roll angle  Re-inflation behaviour  Total change of course  Collapse on the opposite side occurs  Twist occurs  Cascade occurs	90° to 180° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No	90° to 180° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No
Asymmetric collapse 70-75% in accelerated flight  Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs	90° to 180° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No No No No	90° to 180° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No No No

in 10 s

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 Spin occurs No Α 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 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 0° to 30° Dive forward 0° to 30° Cascade occurs No **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 Entry procedure Dedicated controls Dedicated controls Stable flight Behaviour during big ears 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 A 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 180° turn achievable in 20 s 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

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