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





DHV TESTREPORT EN926-2:2005

NOVA PRION 3 S

Type designation NOVA Prion 3 S Type test reference no DHV GS-01-2131-15

Holder of certification NOVA Vertriebsgesellschaft m.b.H.

Manufacturer NOVA Vertriebsgesellschaft m.b.H.

Classification A

Winch towing Yes

Number of seats min / max 1/1

Accelerator Yes

Trimmers No

BEHAVIOUR AT MIN WEIGHT IN FLIGHT (75KG)







Tuellation (Aples off	Beni Stocker	Harald Buntz
Inflation/take-off	A	<u>A</u>
Rising behavio Special take off technique requi	our Smooth, easy and constant rising	Smooth, easy and constant rising No
Special take on technique requi	ieu no	NO
Landing	A	A
Special landing technique requi	red No	No
Speeds in straight flight	A	A
Trim speed more than 30 km	n/h Yes	Yes
Speed range using the controls larger than 10 km	n/h Yes	Yes
Minimum spe	eed Less than 25 km/h	Less than 25 km/h
Control movement	A	A
Symmetric control pressi	12	
Symmetric control pressi	_	Increasing Greater than 60 cm
Symmetric control tra	ver dieater than 55 cm	Greater than 60 cm
Pitch stability exiting accelerated flight	A	A
Dive forward angle on e	exit Dive forward less than 30°	Dive forward less than 30°
Collapse occ	urs No	No
Pitch stability operating controls during	1	1
accelerated flight	A	A
Collapse occ	urs No	No
Roll stability and damping	<u> </u>	¦ A
Oscillation	ons Reducing	Reducing
Stability in gentle spirals	A	A
Tendency to return to straight flig	ght Spontaneous exit	Spontaneous exit
	3	
Behaviour in a steeply banked turn	A	A
Sink rate after two tu	rns Up to 12 m/s	Up to 12 m/s
Symmetric front collapse	A	A
En	try Rocking back less than 45°	Rocking back less than 45°
	ery Spontaneous in less than 3 s	Spontaneous in less than 3 s
	exit Dive forward 0° to 30°	Dive forward 0° to 30°
Change of cou	rse Entering a turn of less than 90°	Entering a turn of less than 90°
Cascade occ	urs No	No

Symmetric front collapse in accelerated flight A

Α

DHV Testreport EN926-2:2005 :: NOVA Prion 3 S 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° Cascade occurs No Exiting deep stall (parachutal stall) Α Deep stall achieved Yes **Recovery** Spontaneous in less than 3 s Spontaneous in less than 3 s Dive forward 0° to 30° Dive forward angle on exit Dive forward 0° to 30° Change of course Changing course less than 45° Changing course less than 45° Cascade occurs No High angle of attack recovery 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 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 Nο Rocking back Less than 45° Less than 45° Line tension Most lines tight Most lines tight Asymmetric collapse 45-50% Change of course until re-inflation Less than 90° Maximum dive forward or roll angle Dive or roll angle 15° to 45° Dive or roll angle 0° to 15° **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 No Twist occurs No Nο Cascade occurs No Nο Asymmetric collapse 70-75% 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 No No Twist occurs No No Cascade occurs No No Asymmetric collapse 45-50% in accelerated <u>flight</u> 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 No Twist occurs No Cascade occurs No No Asymmetric collapse 70-75% in accelerated Change of course until re-inflation Less than 90° Less than 90° 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° Twist occurs No No Cascade occurs No Nο

flight

Maximum dive forward or roll angle Dive or roll angle 15° to 45°

Collapse on the opposite side occurs No

Directional control with a maintained

asymmetric collapse Able to keep course Yes

180° turn away from the collapsed side possible in Yes

Amount of control range between turn and stall or More than 50 % of the symmetric control

More than 50 % of the symmetric

Yes

control travel

Trim speed spin tendency	•	i a
S	pin occurs No	No
Low speed spin tendency	A	A
S	pin occurs No	No
Recovery from a developed spin	A	A
Spin rotation angle aft	er release Stops spinning in less than 90°	Stops spinning in less than 90°
-	ade occurs No	No
		1
B-line stall	¦ A	¦ A
Change of course befo	re release Changing course less than 45°	Changing course less than 45°
Behaviour befo	re 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 and	gle on exit Dive forward 0° to 30°	Dive forward 0° to 30°
Casca	ade occurs No	No
Big ears	A	A
Entry	procedure Dedicated controls	Dedicated controls
•	g big ears Stable flight	Stable flight
	Recovery Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward ang	gle 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 durin	g big ears Stable flight	Stable flight
	Recovery Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward and	gle on exit Dive forward 0° to 30°	Dive forward 0° to 30°
Behaviour immediately after rele accelerator while maintainin		Stable flight
Behaviour exiting a steep spiral	A	Ä
Tendency to return to strai	ight flight Spontaneous exit	Spontaneous exit
	mal flight Less than 720°, spontaneous recovery	Less than 720°, spontaneous recovery
Sink rate when evaluating spiral stabi		14
Alternative means of directional contr	rol A	A
180° turn achieval	ole in 20 s Yes	Yes
	pin occurs No	No
Any other flight procedure and/or cor	ofiguration described in the user's manual	
Color inglic processic una/of col	ga.aaron wasansaa in tiic user s manual	

No other flight procedure or configuration described in the user's manual

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