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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Flight test report: EN 926-2:2013 & LTF 91/09

Manufacturer						
Manufacturer Niviuk Gliders / Air Games S.L.		Certification number	PG_1734.2020			
Address C. Del Ter, 6 Nave D 17165 La Cellera de Ter Girona Spain		Flight test	0	9.10.2020		
Glider model Artik 6 25		Classification	С			
Serial number ARTIK6424		Representative	Т	Tim Rochas		
Trimmer no		Place of test	Villeneuve			
Folding lines used	no					
Test pilot		Philippe Dupont	A	Alain Zoller		
Harness		Advance - Success 4 M	Α	Advance - Success 4 L		
Harness to risers distance (cm)		44	44			
Distance between risers (cm)		44	4	46		
Total weight in flight (kg)		85		105		
	· (•\9)	00	1	00		
1. Inflation/Take-off		В				
Rising behaviour		Easy rising, some pilot correction is required	В	Easy rising, some pilot correction is required	В	
Special take off technique required		No	А	No	А	
2. Landing		Α				
Special landing technique required		No	А	No	А	
3. Speed in straight flight		Α				
Trim speed more than 30 k		Yes	А	Yes	А	
Speed range using the controls larger than 10 km/h		Yes	Α	Yes	А	
Minimum speed		Less than 25 km/h	А	Less than 25 km/h	А	
4. Control movement		c				
Max. weight in flight up to						
Symmetric control pressure / travel		not available	0	not available	0	
Max. weight in flight 80 kg to 100 kg		In an action / 45 are to 60 are	~		0	
Symmetric control pressure / travel		Increasing / 45 cm to 60 cm	С	not available	0	
Max. weight in flight greater than 100 kg Symmetric control pressure / travel		not available	0	Increasing / 50 cm to 65 cm	С	
• •		A	U	increasing / 50 cm to 65 cm	C	
5. Pitch stability exiting accelerated flight Dive forward angle on exit		Dive forward less than 30°	А	Dive forward less than 30°	А	
Collapse occurs		No	A		A	
6. Pitch stability operating controls during accelerated flight		A	~		~	
Collapse occurs		No	А	No	А	
7. Roll stability and damping		Α	,,		,,	
Oscillations		Reducing	А	Reducing	А	
8. Stability in gentle spirals		A				
Tendency to return to straight flight		Spontaneous exit	А	Spontaneous exit	А	
, .	y developed spiral dive	Α		·		
5. Denaviour exiting a run		Immediate reduction of rate of turn	А	Immediate reduction of rate of turn	А	
Initial response of glider (fin			А	Spontaneous exit (g force	А	
-	Jht flight	Spontaneous exit (g force	~			
Initial response of glider (fir		Spontaneous exit (g force decreasing, rate of turn decreasing) Less than 720°, spontaneous recovery	A	decreasing, rate of turn decreasing) Less than 720°, spontaneous recovery	A	

Anneximately 20 % abord				
Approximately 30 % chord Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	A
Dive forward angle on exit Change of course	Dive forward 0° to 30° Keeping	A	Dive forward 0° to 30° Keeping	A
	course		course	
Cascade occurs	No	А	No	А
Folding lines used	No		No	
At least 50% chord				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	Α
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	Α
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
Cascade occurs	No	A	No	А
Folding lines used	No		No	
With accelerator				
Entry	Rocking back greater than 45°	C	Rocking back less than 45°	A
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in 3 s to 5 s	В
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
Cascade occurs	No	A	No	A
Folding lines used	No		No	
11. Exiting deep stall (parachutal stall)	A		×.	
Deep stall achieved	Yes	A	Yes	A
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Change of course Cascade occurs	Changing course less than 45° No	A A	Changing course less than 45° No	A A
12. High angle of attack recovery	A	~		~
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Cascade occurs	No	A	No	A
13. Recovery from a developed full stall	B	,,		
-	Dive forward 0° to 30°	А	Dive forward 30° to 60°	В
Dive forward angle on exit		A A	Dive forward 30° to 60° No collapse	B A
-	Dive forward 0° to 30° No collapse No			
Dive forward angle on exit Collapse	No collapse	А	No collapse	А
Dive forward angle on exit Collapse Cascade occurs (other than collapses)	No collapse No	A A	No collapse No	A A
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back	No collapse No Less than 45°	A A A	No collapse No Less than 45°	A A A
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension	No collapse No Less than 45° Most lines tight	A A A	No collapse No Less than 45°	A A A
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse	No collapse No Less than 45° Most lines tight	A A A	No collapse No Less than 45°	A A A
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or	No collapse No Less than 45° Most lines tight B Less than 90° / Dive or roll angle	A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle	A A A
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle	No collapse No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 0° to 15°	A A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 0° to 15°	A A A A
 Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour 	No collapse No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation	A A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation	A A A A
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Change of course until re-inflation / Maximum dive forward or	Less than 90° / Dive or roll angle	А	Less than 90° / Dive or roll angle	А
roll angle	0° to 15° Spontoneous reliation	^	15° to 45°	^
Re-inflation behaviour	Spontaneous re-inflation Less than 360°	A A	Spontaneous re-inflation Less than 360°	A
Total change of course				A
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No		No	
Large asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	A	90° to 180° / Dive or roll angle 15° to 45°	В
Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	Α	No	А
Cascade occurs	No	А	No	А
Folding lines used	No		No	
15. Directional control with a maintained asymmetric	Α			
	No	•	Ma a	•
Able to keep course	Yes	A	Yes	A
180° turn away from the collapsed side possible in 10 s	Yes	A	Yes	A
Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	А	More than 50 % of the symmetric control travel	А
16. Trim speed spin tendency	A			
Spin occurs	No	А	No	А
17. Low speed spin tendency	Α			
Spin occurs	No	А	No	А
18. Recovery from a developed spin	Α			
Spin rotation angle after release	Stops spinning in less than 90°	Α	Stops spinning in less than 90°	А
Cascade occurs	No	Α	No	А
19. B-line stall	Α			
Change of course before release	Changing course less than 45°	А	Changing course less than 45°	А
Behaviour before release	Remains stable with straight span	Α	Remains stable with straight span	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	А
Cascade occurs	No	Α	No	А
20. Big ears	Α			
Entry procedure	Dedicated controls	А	Dedicated controls	А
Behaviour during big ears	Stable flight	А	Stable flight	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
21. Big ears in accelerated flight	В			
Entry procedure	Dedicated controls	А	Dedicated controls	А
Behaviour during big ears	Stable flight	Α	Stable flight	А
Recovery	Recovery through pilot action in less than a further 3 s	В	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	A	Stable flight	A
22. Alternative means of directional control	Α			
180° turn achievable in 20 s	Yes	Α	Yes	Α
Stall or spin occurs	No	A	No	A
23. Any other flight procedure and/or configuration described in the user's manual	0			
Procedure works as described	not available	0	not available	0
Procedure suitable for novice pilots				-
Cascade occurs	not available not available	0 0	not available not available	0 0

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24. Comments of test pilot