Clubs

DH

DHV Databases

IV Databases		
TECHNICAL DATA DHV TESTREPORT LTF DATASHEET PART	S LIST OPERATING INSTRUCTION PRINT	
IIV TESTRETORT ETT		
GIN BOLERO 7 L Type designation	GIN Bolero 7 L	
Type test reference no Holder of certification	DHV GS-01-2691-22	
Classification		
Winch towing Number of seats min / max Accelerator	1 / 1	
Trimmers		
	BEHAVIOUR AT MIN WEIGHT IN FLIGHT (100KG)	BEHAVIOUR AT MAX WEIGHT IN FLIGHT (130KG)
Test pilots		
	25	
	Mario Eder No release	Sebastian Mackrodt No release
	Smooth, easy and constant rising	Smooth, easy and constant rising
Special take off technique required		No
Landing Special landing technique required		A No
<u>Speeds in straight flight</u>	Α	Α
Trim speed more than 30 km/h Speed range using the controls larger than 10 km/h		Yes Yes
	Less than 25 km/h	Less than 25 km/h
Control movement Symmetric control pressure		A Increasing
Symmetric control travel	Greater than 60 cm	Greater than 65 cm
Dive forward angle on exit	Dive forward less than 30°	Dive forward less than 30°
Collapse occurs Pitch stability operating controls during		No
accelerated flight Collapse occurs		No
Roll stability and damping	Α	Α
Oscillations		Reducing
Stability in gentle spirals Tendency to return to straight flight		Spontaneous exit
Behaviour exiting a fully developed spiral dive		A Transport of the section of the se
	Spontaneous exit (g force decreasing, rate of turn decreasing)	Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing)
Turn angle to recover normal flight		Less than 720°, spontaneous recovery
Entry	Rocking back less than 45°	Rocking back less than 45°
Dive forward angle on exit Change of course		Spontaneous in less than 3 s Dive forward 0° to 30° Keeping course
Cascade occurs Folding lines used	No	No no
Unaccelerated collapse (at least 50 % chord)	A	A
Recovery	Rocking back less than 45° Spontaneous in less than 3 s	Rocking back less than 45° Spontaneous in less than 3 s
Dive forward angle on exit Change of course Cascade occurs	Keeping course	Dive forward 0° to 30° Keeping course No
Folding lines used	no	no
Entry	Rocking back less than 45°	Rocking back less than 45°
Dive forward angle on exit Change of course		Spontaneous in less than 3 s Dive forward 0° to 30° Keeping course
Cascade occurs Folding lines used	No	No no
Exiting deep stall (parachutal stall)	Α	A
-	Spontaneous in less than 3 s	Yes Spontaneous in less than 3 s
Dive forward angle on exit Change of course Cascade occurs	Changing course less than 45°	Dive forward 0° to 30° Changing course less than 45° No
High angle of attack recovery	A	A
Recovery Cascade occurs	Spontaneous in less than 3 s No	Spontaneous in less than 3 s No
		Α
Dive forward angle on exit Collapse Cascade occurs (other than collapses)	No collapse	Dive forward 0° to 30° No collapse No
Rocking back	Less than 45°	Less than 45° Most lines tight
	Α	A
Change of course until re-inflation Maximum dive forward or roll angle	Dive or roll angle 0° to 15°	Less than 90° Dive or roll angle 0° to 15°
Re-inflation behaviour Total change of course Collapse on the opposite side occurs	·	Spontaneous re-inflation Less than 360° No (or only a small number of
· · · · · · · · · · · · · · · · · · ·	with a spontaneous re inflation)	collapsed cells with a spontaneous re inflation)
Cascade occurs Folding lines used	No	No no
Large asymmetric collapse	Α	Α
Change of course until re-inflation Maximum dive forward or roll angle	Dive or roll angle 15° to 45°	Less than 90° Dive or roll angle 15° to 45°
Re-inflation behaviour Total change of course Collapse on the opposite side occurs	•	Spontaneous re-inflation Less than 360° No (or only a small number of
	with a spontaneous re inflation)	collapsed cells with a spontaneous re inflation)
Twist occurs Cascade occurs Folding lines used	No	No No no
		A
Change of course until re-inflation Maximum dive forward or roll angle	Dive or roll angle 15° to 45°	Less than 90° Dive or roll angle 15° to 45°
Re-inflation behaviour Total change of course Collapse on the opposite side occurs	·	Spontaneous re-inflation Less than 360° No (or only a small number of
	with a spontaneous re inflation)	collapsed cells with a spontaneous re inflation)
Twist occurs Cascade occurs Folding lines used	No	No No no
		A
Change of course until re-inflation Maximum dive forward or roll angle	Dive or roll angle 15° to 45°	Less than 90° Dive or roll angle 15° to 45°
Re-inflation behaviour Total change of course Collapse on the opposite side occurs	Less than 360°	Spontaneous re-inflation Less than 360° No (or only a small number of
	No (or only a small number of collapsed cells with a spontaneous re inflation)	collapsed cells with a spontaneous re inflation)
Twist occurs Cascade occurs Folding lines used	No	No No no
Directional control with a maintained		A
asymmetric collapse		

asymmetric collapse **Able to keep course** Yes Yes

180° turn away from the collapsed side possible in Yes Yes Amount of control range between turn and stall or More than 50 % of the symmetric control More than 50 % of the symmetric **spin** travel control travel Trim speed spin tendency **Spin occurs** No No

A Low speed spin tendency A **Spin occurs** No No Recovery from a developed spin **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 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 No

Big ears Standard technique **Entry procedure** Standard technique **Behaviour during big ears** Stable flight Stable flight **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° Big ears in accelerated flight A

Entry procedure Standard technique Standard technique **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** Stable flight Stable flight accelerator while maintaining big ears **Alternative means of directional control**

Yes

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

180° turn achievable in 20 s Yes

Stall or spin occurs No