DHV TESTREPORT LTF DHV TESTREPORT EN DATASHEET PARTS LIST

OPERATING INSTRUCTION

DHV TESTREPORT EN 926-2:2013+A1:2021



| Type designation Type test reference no Holder of certification | DHV GS-01-2757-23 UP International GmbH | |
|---|--|--|
| Classification | | |
| Winch towing Number of seats min / max Accelerator | 1 / 1 | A |
| Trimmers | No BEHAVIOUR AT MIN WEIGHT IN FLIGHT (80KG) | BEHAVIOUR AT MAX WEIGHT IN FLIGHT (130KG |
| Test pilots | | |
| | | 25 |
| | Josef Bauer | Mario Eder |
| <u>Inflation/take-off</u> | No release A | No release |
| Rising behaviour Special take off technique required | Smooth, easy and constant rising No | Smooth, easy and constant rising No |
| Landing Special landing technique required | A | A |
| | Α | A |
| 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 |
| <u>Control movement</u> Symmetric control pressure Symmetric control travel | - | A Increasing Greater than 65 cm |
| Pitch stability exiting accelerated flight | Α | Α |
| Dive forward angle on exit Collapse occurs | | Dive forward less than 30° No |
| accelerated flight | Α | Α |
| Collapse occurs Roll stability and damping | No | No |
| Oscillations | Reducing | Reducing |
| <u>Stability in gentle spirals</u> Tendency to return to straight flight | A Spontaneous exit | A Spontaneous exit |
| Behaviour exiting a fully developed spiral dive Initial response of glider (first 180°) | • | A Immediate reduction of rate of tu |
| Tendency to return to straight flight | Spontaneous exit (g force decreasing, rate of turn decreasing) | Spontaneous exit (g force decreasing, rate of turn decreasing Less than 720°, spontaneous |
| Turn angle to recover normal flight | | recovery |
| Entry | A Rocking back less than 45° Spontaneous in less than 3 s | A Rocking back less than 45° Spontaneous in less than 3 s |
| Dive forward angle on exit Change of course | Dive forward 0° to 30° Keeping course | Dive forward 0° to 30° Keeping course |
| Cascade occurs Folding lines used | - | No no |
| - | Rocking back less than 45° | A Rocking back less than 45° |
| Recovery 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 |
| · · · · · · · · · · · · · · · · · · · | A Rocking back less than 45° | A Rocking back less than 45° |
| - | Spontaneous in less than 3 s | Spontaneous in less than 3 s Dive forward 0° to 30° |
| Change of course Cascade occurs Folding lines used | No | Keeping course No no |
| - | A | 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 |
| | Α | A |
| Recovery Cascade occurs | Spontaneous in less than 3 s No | Spontaneous in less than 3 s No |
| <u>Recovery from a developed full stall</u> Dive forward angle on exit | A Dive forward 0° to 30° | A Dive forward 0° to 30° |
| Collapse Cascade occurs (other than collapses) Rocking back | | No collapse No Less than 45° |
| Line tension | Most lines tight | Most lines tight |
| Small asymmetric collapse Change of course until re-inflation Maximum dive forward or roll angle | | A Less than 90° Dive or roll angle 0° to 15° |
| Re-inflation behaviour Total change of course | Spontaneous re-inflation Less than 360° | Spontaneous re-inflation Less than 360° |
| Collapse on the opposite side occurs | cells with a spontaneous re inflation) | No (or only a small number of collapsed cells with a spontaneous re inflation) |
| Twist occurs Cascade occurs Folding lines used | No | No No no |
| Large asymmetric collapse | Α | Α |
| Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour | Dive or roll angle 15° to 45° | Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation |
| Total change of course Collapse on the opposite side occurs | Less than 360° No (or only a small number of collapsed | Less than 360° No (or only a small number of |
| Twist occurs | cells with a spontaneous re inflation) No | collapsed cells with a spontaneous re inflation) No |
| Cascade occurs Folding lines used | | No no |
| Change of course until re-inflation | | A Less than 90° |
| Maximum dive forward or roll angle Re-inflation behaviour Total change of course | Spontaneous re-inflation | Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° |
| Total change of course Collapse on the opposite side occurs | | Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) |
| Twist occurs Cascade occurs | No | No No |
| Folding lines used | no | no |
| Change of course until re-inflation Maximum dive forward or roll angle | Less than 90° | 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° | Spontaneous re-inflation Less than 360° No (or only a small number of |
| | 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 | Α | Α |
| Able to keep course 180° turn away from the collapsed side | Yes | Yes Yes |
| possible in 10 s Amount of control range between turn and stall or spin | More than 50 % of the symmetric contro | l More than 50 % of the symmetric control travel |
| /// | A | A |
| Spin occurs Low speed spin tendency | No | No |
| Spin occurs | No | No |
| Pecovoru from a de la | A Stops spinning in less than 90° | A Stops spinning in less than 90° No |
| Spin rotation angle after release | | |
| Spin rotation angle after release Cascade occurs | | Α |
| Spin rotation angle after release Cascade occurs B-line stall Change of course before release Behaviour before release | No A Changing course less than 45° Remains stable with straight span | Changing course less than 45° Remains stable with straight span |
| Spin rotation angle after release Cascade occurs B-line stall Change of course before release Behaviour before release | No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° | Changing course less than 45° |
| Spin rotation angle after release Cascade occurs B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs | No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No A | Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No |
| Spin rotation angle after release Cascade occurs B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs Big ears Entry procedure Behaviour during big ears | No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No A Standard technique Stable flight | Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No A Standard technique Stable flight |
| Spin rotation angle after release Cascade occurs B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit | No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° | Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° |
| Spin rotation angle after release Cascade occurs B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Big ears in accelerated flight | No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Standard technique Standard technique | Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Standard technique |
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| Spin rotation angle after release Cascade occurs B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Dive forward angle on exit | No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Yes | Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° |