

N618AP

2014 Seamax M-22

Performance Data

MSN: 122



Prepared by the worldwide aviation specialists at RidgeAire, Inc.

4 Operating Limitations

4.1 Stalling speeds at maximum takeoff weight (V_{S1} and V_{S0})

| | | | | | |
|-----------|--------------------------------|----------|---|--------|--------|
| Flaps 0° | ALL (red and green) lights OFF | V_S | - | 46 kts | 53 mph |
| Flaps 10° | ONE green light ON | V_{S1} | - | 44 kts | 51 mph |
| Flaps 35° | Three last green lights ON | V_{S0} | - | 39 kts | 45 mph |

4.2 Flap extended speed range (V_{S0} to V_{FE})

Maximum speed with flaps extended

| | | | |
|----------------------------|------------|---------|---------|
| All lights off | V_{NE} | 135 kts | 155 mph |
| First green light on | V_{FE10} | 65 kts | 75 mph |
| Last three green lights on | V_{FE} | 55 kts | 63 mph |

4.3 Maximum maneuvering speed (V_A)

$V_A = 96$ kts 110 mph

Maximum speed in turbulent air (V_{RA})

$V_{RA} = V_A = 96$ kts 110mph

4.4 Never exceed speed (V_{NE})

$V_{NE} = 135$ kts 155 mph

4.5 Crosswind and wind limitations

Maximum direct cross wind components for take off and landing

| | | |
|---------------------------------|--------|--------|
| With flaps from 0° to 10° | 15 kts | 17 mph |
| With flaps more than 15° to 35° | 10 kts | 12 mph |

Maximum Demonstrated Crosswind Velocity

| | | |
|--------------------|--------|--------|
| Takeoff or Landing | 10 kts | 12 mph |
|--------------------|--------|--------|

Maximum Recommended Turbulent Air Penetration Speed

At Max Takeoff Mass of 600 kg (1320lb) 79 kts 91 mph

4.6 Service ceiling

Maximum service ceiling is 12.000 ft

4.7 Load factors

 From V_{S0} up to V_{NE} + 4 g / - 2 g

4.8 Prohibited maneuvers

Seamax M-22 is not certified for aerobatics. Steep turns beyond 60° should not be performed

Other limitations

Flights are to be made under VFR conditions. IFR require to comply with 14 CFR FAR 91.205 (d) and pilot qualification.

| | SPEED | kts | mph | Remarks |
|------------|--|-----|-----|---|
| V_{NE} | Never Exceed Speed | 135 | 155 | Do not exceed this speed in any operation |
| V_{NO} | Maximum Structural Cruising Speed | 105 | 121 | Do not exceed this speed except in smooth air, and then only with caution |
| V_A | Maneuvering Speed | 96 | 110 | Do not make full or abrupt control movements above this speed |
| V_S | Stall Speed Flaps 0° | 46 | 53 | |
| V_{S0} | Stall Speed Flaps Full Down (three last green lights on) | 39 | 45 | |
| V_{FE10} | Maximum Flaps Extended Speed (first green light on) | 65 | 74 | Do not exceed these speeds with the given flap setting |
| V_{FE} | Maximum Flaps Extended Speed (all green lights ON) | 55 | 63 | |