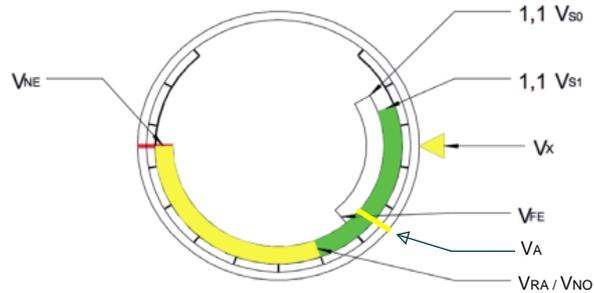




SPEEDS INDICATED ON AIRSPEED INDICATOR



WHITE ARC

Speed range in landing configuration, i.e. with fully extended wing flaps and extended landing gear (with retractable landing gear)

WHITE ARC LOWER LIMIT

V_{S0} = Stall speed or minimum flight speed at which the aircraft is still controllable in landing configuration.

WHITE ARC UPPER LIMIT

V_{FE} = Flaps Extension speed, the maximum speed for extending the flaps.

GREEN ARC

V_{S1} bis V_{RA} = normal operating range at maximum take-off weight.

GREEN ARC LOWER LIMIT

V_{S1} = Stall speed with closed flaps.

GREEN ARC UPPER LIMIT

V_{RA} or V_{NO} = Maximum structural cruising speed in strong turbulence or maximum speed for normal operations. Wing flaps in neutral position (retracted), running gear retracted (with retractable landing gear). Full rashes of the handlebar are allowed. Previously = Normal Operating Speed.

YELLOW LINE

V_A = The Maneuvering speed which you can make full control deflections in strong turbulence. If V_A and V_{RA} are equal, no yellow line needed, the V_A is the border between green and yellow bow.

YELLOW TRIANGLE

V_X = lowest recommended landing airspeed or best climbing over an obstacle in relation to distance.

RED LINE

V_{NE} = permissible maximum speed must never be exceeded, otherwise structural damage threatens even in calm air mass.

BLUE LINE

V_Y = Airspeed for the best climb rate (per time); with V_Y you climb fastest (Best Rate of Climb), even if you travel another distance in contrast to V_X ; Speed for best climbing - greatest gain in height in the shortest possible time.

Abbreviation, name and explanation

V_{NE} ->	never exceed speed
V_{NO}/V_{RA} ->	maxi. structural cruising speed or max. speed for normal operations
V_A ->	Maneuver speed in strong turbulence with full rudder deflections.
V_{FE} ->	Flaps Extension Speed, maximum permissible speed for extending the wing flaps
V_X ->	lowest recommended landing approach speed or best climb over obstacle "X" in relation to the flight distance (V_Y = best climb with respect to the flight time).
V_{S1} ->	Stall speed or minimum steady speed at which the aircraft with flaps is still controllable. English Definition: Stalling speed or minimum steady controllable flight speed.
V_S ->	like V_{S1} , but in a specially defined configuration.
V_{S0} ->	Stall speed or minimum steady speed at which the aircraft is still controllable in the landing configuration.
V_Y ->	Optimate speed of the best climb