

# Cowtown Flying Club

## V-speeds

A series of designators used by the FAA and listed in 14 CFR 1 to describe certain flight conditions.

**NOTE: USE AIRCRAFT POH TO ADD CORRECT SPEEDS TO THIS CHART.....**

$V_A$	.....	Design maneuvering speed
$V_B$	.....	Design speed for maximum gust intensity
$V_C$	.....	Design cruising speed
$V_D$	.....	Design diving speed
$V_{DF/MDF}$	.....	Demonstrated flight diving speed
$V_F$	.....	Design flap speed
$V_{FC/MFC}$	.....	Maximum speed for stability characteristics
$V_{FE}$	.....	Maximum flaps extended speed
$V_H$	.....	Maximum speed in level flight with maximum continuous power
$V_{LE}$	.....	Maximum landing gear extended speed
$V_{LO}$	.....	Maximum landing gear operating speed
$V_{LOF}$	.....	Lift-off speed
$V_{MC}$	.....	Minimum control speed with the critical engine inoperative
$V_{MO/MMO}$	.....	Maximum operating limit speed
$V_{MU}$	.....	Minimum unstick speed
$V_{NE}$	.....	Never-exceed speed
$V_{NO}$	.....	Maximum structural cruising speed
$V_R$	.....	Rotation speed
$V_S$	.....	Stalling speed or minimum steady flight speed at which the aircraft is controllable
$V_{SO}$	.....	Stalling speed or minimum steady flight speed in the landing configuration
$V_{S1}$	.....	Stalling speed or minimum steady flight speed obtained in a specific configuration
$V_{TOSS}$	.....	Take-off safety speed for Category A rotorcraft
$V_X$	.....	Speed for best angle of climb
$V_Y$	.....	Speed for best rate of climb
$V_1$	.....	Take-off decision speed (formerly denoted as critical engine failure speed)
$V_2$	.....	Take-off safety speed
$V_{2min}$	.....	Minimum take-off safety speed