

Diamond DA-42 VI Notes

Bibliography: DA-42 VI AFM.

Airspeeds for Normal Operation

Take-Off airspeeds

$V1/VR = 76 \text{ KIAS}$
 $Vx = 77 \text{ KIAS}$ (Flaps APP)
 $Vy = 92 \text{ KIAS}$

Climb airspeeds

$Vy = 92 \text{ KIAS}$
 $Vyse = 85 \text{ KIAS}$
 $Vyse$ (Icing Conditions) = 90 KIAS
Normal Cruise Climb = 100 KIAS

Descent Airspeeds

Use 149 KIAS for descent planning.

Approach Airspeeds (Normal Conditions)

$Vref:$
Flaps UP = 92 KIAS
Flaps APP = 88 KIAS
Flaps LDG = 86 KIAS

Approach Airspeeds (Icing Conditions)

$Vref:$
Flaps UP = 97 KIAS
Flaps APP = 93 KIAS
Flaps LDG = NOT ALLOWED

Maneuvers

Take-Off

Pitch after rotation: 10 - 12 degrees to maintain Vy .
After 500 ft: Flaps UP → Climb Power → Pitch 8 - 10 degrees.

Traffic Pattern

Pitch and Power:
100 KIAS Level Flight, Clean → 2 - 3 dnu, 30% Load.
100 KIAS, Descent → 1 dnu, 27%.

Speed and Flaps Schedule
Visual Traffic Pattern

Downwind: 100 KIAS - Flaps UP
Base: 95 KIAS - Flaps APP - Gear Down
Final Vref - Flaps A/R

IFR - Precision and Non-Precision Approaches

Fly the approach with:
Gear UP
Flaps UP
100 KIAS
From IAF to FAF or GS intercept, then configure the aircraft for landing as required.

Systems

Example Question

Example Answer