

# Diamond DA-42 VI Notes

Bibliography: DA-42 VI AFM.

## Airspeeds for Normal Operation

### Take-Off airspeeds

V<sub>1</sub>/V<sub>R</sub> = 76 KIAS  
V<sub>x</sub> = 77 KIAS (Flaps APP)  
V<sub>y</sub> = 92 KIAS

### Climb airspeeds

V<sub>y</sub> = 92 KIAS  
V<sub>yse</sub> = 85 KIAS  
V<sub>yse</sub> (Icing Conditions) = 90 KIAS  
Normal Cruise Climb = 100 KIAS

### Descent Airspeeds

Use 149 KIAS for descent planning.

### Approach Airspeeds (Normal Conditions)

V<sub>ref</sub>:  
Flaps UP = 92 KIAS  
Flaps APP = 88 KIAS  
Flaps LDG = 86 KIAS

### Approach Airspeeds (Icing Conditions)

V<sub>ref</sub>:  
Flaps UP = 97 KIAS  
Flaps APP = 93 KIAS  
Flaps LDG = NOT ALLOWED

## Maneuvers

### Take-Off

**Pitch after rotation:** 10 - 12 degrees to maintain V<sub>y</sub>.  
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 No-  
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