

DA-42 VI Procedures and Systems

Bibliography: DA-42 VI AFM

Airspeeds for Normal Operation

Take-Off airspeeds

V₁/V_R = 76 KIAS
V_x = 77 KIAS (Flaps APP)
V_y = 92 KIAS

Climb airspeeds

V_y = 92 KIAS
V_{yse} = 85 KIAS
V_{yse} (Icing Conditions) = 90 KIAS
Normal Cruise Climb = 100 KIAS

Descent Airspeeds

Use 149 KIAS for descent planning.

Approach Airspeeds
(Normal Conditions)

V_{ref}:
Flaps UP = 92 KIAS
Flaps APP = 88 KIAS
Flaps LDG = 86 KIAS

Approach Airspeeds
(Icing Conditions)

V_{ref}:
Flaps UP = 97 KIAS
Flaps APP = 93 KIAS
Flaps LDG = NOT ALLOWED

Maneuvers

Take-Off

Pitch after rotation: 10 - 12 degrees to maintain V_y.
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 V_{ref} - 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