



**DEPARTAMENTO “SEGURIDAD OPERACIONAL”**  
**SUBDEPARTAMENTO “LICENCIAS”**  
**SECCIÓN EVALUACIONES**

**“CESSNA C-172 XP”**

**“CLUB AEREO DE INVESTIGACIONES”**

**A.- Limitaciones de Operación**

1.- Limitaciones (Velocidades)

	KIAS
Va	104
Vne	163
Vno	129
Vfe 10°	110
Vs	48
Vso	38
Vx	57
Vy	78
Vr	58
Vapp (Flap DN)	60-70
Vplaneo 2.550 lbs	75
Max Cross Wind	20

2.- Combustible (U.S. GAL)

Tipo a Utilizar	100/130
Capacidad Total	68
Capacidad Usable	66
Presión de Combustible (PSI)	
Mínima	3
Máxima	17

3.- Pesos (LBS)

Máximo TAKE-OFF	2.550
Máximo Equipaje	200

4.- Motor (Potencia Máxima Continua)

Limitaciones Operativas de Motor	
Razón HP o BHP	195
Máximas RPM	2.600
RPM Estáticas	
Máximas	2.600
Mínimas	2.200
Temperatura cabeza de Cilindros (°F)	
Máxima	460
Mínima	200
Temperatura de aceite (°F)	
Máxima	240
Mínima	100
Presión de aceite (PSI)	
Máxima	100
Mínima	10

5.- Límites de maniobras (Cat. Normal)

MANIOBRA	KIAS
Spin (Flaps UP)	SLOW DECELERATION
Escarpados	105
Ocho Flojo	110
Chandela	110

## B.- Emergencies Procedures

### 1.- ENGINE FAILURE DURING TAKEOFF RUN

Throttle	IDLE
Brakes	APPLY
Wing Flaps	RETRACT
Mixture	IDLE CUT-OFF
Ignition Switch	OFF
Master Switch	OFF

### 2. - ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

Airspeed	70 KIAS (FLAPS UP) 65 KIAS (FLAPS DN)
Mixture	IDLE CUT-OFF
Fuel Shutoff Valve	OFF (PULL OUT)
Ignition Switch	OFF
Wing Flaps	AS REQUIRED
Master Switch	OFF

### 3. - ENGINE FAILURE DURING FLIGHT

Airspeed	75 KIAS
Primer	IN AND LOCKED
Fuel Shutoff Valve	ON (PUSH FULL IN)
Fuel Selector Valve	BOTH
Mixture	RICH
Throttle	1/2" OPEN
Auxiliary Fuel Pump	LOW for 3-5 seconds then OFF
Ignition Switch	BOTH (or START if propeller is stopped)

#### 4. - FIRE DURING START ON GROUND

Auxiliary Fuel Pump	OFF
Mixture	IDLE CUT-OFF
Parking Brake	RELEASE
Fire Extinguisher	OBTAIN
Airplane	EVACUATE
Fire	EXTINGUISH
Fire Damage	INSPECT

#### 5. - ENGINE FIRE IN FLIGHT

Throttle	CLOSE
Mixture	IDLE CUT-OFF
Fuel Shutoff Valve	OFF
Master Switch	OFF
Cabin Heat and Air	OFF
Airspeed	105 KIAS
Forced Landing	EXECUTE