



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

**“CESSNA C-172A”  
“CC-CCS”**

**AERoclub CORDILLERA**

**A.- Limitaciones de Operación**

**1.- Limitaciones (Velocidades)**

	<b>MPH</b>
Va	<b>115</b>
Vne	<b>160</b>
Vno	<b>140</b>
Vfe 10°	<b>100</b>
Vs	<b>58</b>
Vso	<b>52</b>
Vx	<b>60</b>
Vy	<b>75</b>
Vr	<b>55</b>
Vapp (Flap DN)	<b>65-75</b>
Vplaneo	<b>70</b>
Max Cross Wind	<b>15</b>

**2.- Combustible (U.S. GAL)**

Tipo a Utilizar	<b>100/130</b>
Capacidad Total	<b>42</b>
Capacidad Usable	<b>37</b>

**3.- Pesos (LBS)**

Máximo TAKE-OFF	<b>2200</b>
Máximo Equipaje	<b>120</b>

**4.- Motor (Potencia Máxima Continua)**

<b>Limitaciones Operativas de Motor</b>	
Razón HP o BHP	<b>145</b>
Máximas RPM	<b>2.700</b>
<b>RPM estáticas</b>	
Máximas	<b>2.360</b>
Mínimas	<b>2.260</b>
<b>Temperatura de aceite (°F)</b>	
Máxima	<b>200</b>
Mínima	<b>100</b>
<b>Presión de aceite (PSI)</b>	
Máxima	<b>100</b>
Rango normal	<b>30 - 60</b>
Mínima	<b>10</b>

**5.- Límites de maniobras (Cat. Normal)**

<b>MANIOBRA</b>	<b>MPH</b>
Spin (Flaps UP)	<b>SLOW DECELERATION</b>
Stall	<b>SLOW DECELERATION</b>
Escarpados	<b>115</b>
Ocho Flojo	<b>115</b>
Chandela	<b>115</b>

## **B.- Emergencies Procedures**

### **A. ENGINE FAILURE DURING TAKEOFF ROLL**

1. Throttle **IDLE**
2. Brakes **APPLY**
3. Fuel selector valve **BOTH OFF**
4. Mixture **IDLE CUT – OFF**
5. Ignition switch **OFF**
6. Master switch **OFF**

### **B. ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF**

1. Airspeed **MAINTAIN OVER STALL SPEED**
2. Flaps **AS REQUIRED (do not turn and land)**
3. Directional control **MAINTAIN**
4. Fuel selector valve **BOTH OFF**
5. Mixture **IDLE CUT – OFF**
6. Throttle **IDLE**
7. Ignition switch **OFF**
8. Master switch **OFF**

### **C. ENGINE FAILURE DURING FLIGHT (restart procedure)**

1. Airspeed **70 MPH**
2. Fuel Selector Valve **BOTH ON**
3. Mixture **RICH**
4. Ignition Switch **BOTH**
5. Carburetor Heat **ON (pull out)**
6. Engine instruments **CHECK**
7. Primer **IN AND LOCKED**

### **D. ENGINE FIRE DURING START ON GROUND**

1. Mixture **IDLE CUT-OFF**
2. Throttle **FULL OPEN**
3. Cranking **CONTINUE**
4. Master switch **OFF**
5. Fuel selector valve **BOTH OFF**
6. Ignition switch **OFF**
7. Airplane **EVACUATE**

## **E. ENGINE FIRE IN FLIGHT**

- |                        |                     |
|------------------------|---------------------|
| 1. Fuel selector valve | <b>BOTH OFF</b>     |
| 2. Mixture             | <b>IDLE CUT-OFF</b> |
| 3. Throttle            | <b>IDLE</b>         |
| 4. Ignition switch     | <b>OFF</b>          |
| 5. Master Switch       | <b>OFF</b>          |
| 6. Cabin Heat and Air  | <b>CLOSE</b>        |