

C.G. range (Gear Down) cont'd:

	Landing Gear Retraction Moment + 24,000 in.-lbs.
Empty weight C.G. range	None
Datum	At jugged point at the edge of the skin on the center line of the aircraft at the rear of the bomb bay--Station 276.0
MAC	115.07 inches (leading edge of MAC is 128.29 inches forward of the reference datum--Station 147.71)
Maximum weight	Take-off 24,800 pounds Landing 22,500 pounds
No. of seats	1 (Station 140)
Maximum baggage	None
Fuel capacity	Main Fuselage Tank 270 Gal. (Sta. 194.1) Two Wing Tanks 75 Gal. Each (Sta. 195.4)
Oil capacity	36 Gal. (Sta. 91)
Other Operating Limitations	Military Flight Handbook AN01-85DAB-1 and FAA approved Airplane Flight Manual Supplement dated 14 April 1970.

This aircraft is to carry no person except the pilot at any time.

The retardant tank capacity is 8,000 pounds.

Control surface movements

	<u>Degrees</u>	<u>Inches</u>	<u>Degrees</u>	<u>Inches</u>
	<u>UP</u>		<u>DOWN</u>	
Flap			26±1	15 1/8±9/16
Flaperon (Sta. 19.9)	40±2	11 9/32±9/16		
Flaperette	90°			
Aileron	14±1	1 7/32±3/32	14±1	1 7/32±3/32
Aileron Spring Tab	17±1	1 1/2±3/32	15±1	1 5/16±3/32
Aileron Trim Tab	14±1	1 7/32±3/32	14±1	1 7/32±3/32
Elevator Spring Tab	15±2	1 29/32±1/4	15±2	1 29/32±1/4
Elevator	21±1	9 3/16±7/16	22 1/2±1	9 13/16±7/16
	<u>Degrees</u>	<u>Inches</u>	<u>Degrees</u>	<u>Inches</u>
	<u>UP</u>		<u>DOWN</u>	
Elevator Trim Tab	8±1	1 5/16±1/8	12±1	1 3/8±1/8
	<u>RIGHT</u>		<u>LEFT</u>	
Rudder	29±1	14 11/16±1/2	22±1	11 1/4±1/2
Rudder Trim Tab	20±1	3 5/16±5/32	20±1	3 5/6±5/32

Serial Nos. eligible 123088, 123100, 126731, 126792 and 129233.

Certification basis CAR 8 as amended to October 11, 1950.

Type Certificate No. AR-36 issued April 5, 1963 for the special purpose of firefighting.
Date of application for type certificate May 11, 1959, amended January 28, 1963.

- Production basis None. No aircraft may be produced under this approval.
- Equipment The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification. In addition, equipment necessary for the particular special purpose of firefighting must be installed.
- NOTE 1. Current weight and balance report including list of equipment included in certificated weight empty, and loading instructions when necessary must be in each aircraft at the time of original certification and at all times thereafter except in the case of air carrier operators having an approved weight control system.
- NOTE 2. The following placards and/or markings must be permanently installed in the cockpit in full view of the pilot:
- (a) "This airplane approved in Restricted Category as aerial tanker for firefighting."
 - (b) "Maximum airspeed with flaps extended 20° $V_{fe} = 155$ KIAS."
 - (c) "Maximum airspeed with flaps fully extended $V_{fe} = 140$ KIAS."
 - (d) "Maximum airspeed for abrupt maneuvers $V_a = 160$ KIAS."
 - (e) "Maximum airspeed with tank doors open = 110 KIAS."
- NOTE 3. A placard or marking must be permanently installed adjacent to the tank filler point limiting the retardant tank to 8,000 pounds.
- NOTE 4. Prior to civil certification, the aircraft must be modified in accordance with Aero Union Corporation Report 01-85DA-900.

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