ANAC
NATIONAL CIVIL AVIATION AGENCY - BRAZIL

TYPE CERTIFICATE DATA SHEET Nº EH-1999T07

Type Certificate Holder:

AVIA PROPELLER Ltd.
Beranových 65/666
199 00 Praha 9 - Letňany
CZECH REPUBLIC

EH-1999T07-06

Sheet 01

AVIA PROPELLER MODELS:

V 508, V 508B, V 508D
V 508D-2, V 508D-AG,
V 508E, V 508H,
V 508E-AG, V 508Z

14 October 2026

Propellers of models described herein conforming with this data sheet, which is part of Type Certificate No. 1999T07, meet the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Brazilian Aeronautical Regulations provided they are installed, operated, and maintained as prescribed by the approved manufacturer's manuals and other instructions.

TYPE DESIGN DEFINITION

The V 508 propeller model covers the following design configurations. Each design configuration is defined by a main assembly drawing and an appropriate parts list.

V 508, V 508B, V 508D, V 508D-2, V 508D-AG, V 508Z
Design Configuration “Constant Speed, Feather, Reverse (System Walter)”
Drawing No. 066-0000 dated March 16, 2009 (*)
Parts List No. R-066-0000 dated March 16, 2009 (*)

V 508E, V 508E-AG
Design Configuration “Constant Speed, Feather, Reverse (System Walter, secondary pitch stop)”
Drawing No. 076-0000 dated March 16, 2009 (*)
Parts List No. R-076-0000 dated March 16, 2009 (*)

V 508H
Design Configuration “Constant Speed, Feather, Reverse (single acting, system Pratt&Whitney)“
Drawing No. 100-0000 dated September 10, 2009 (*)
Parts List No. R-100-0000 dated March 21, 2006 (*)

(*) effective is the declared issue or a later approved revision.

TYPE DESCRIPTION

3-blade variable pitch propeller with a hydraulically operated blade pitch change mechanism providing the operation modes “Constant Speed”, “Feather”; and “Reverse”. The hub is milled out of steel and blades are milled out of aluminium alloy.
Optionally the propeller may have installed a spinner and ice protection equipment.
See Notes 2 & 3

EQUIPMENT

Spinner: according to Avia Propeller Service Bulletin No. 2
Governor: according to Avia Propeller Service Bulletin No. 3
Ice Protection: according to Avia Propeller Service Bulletin No. 4

DIMENSIONS

Propeller diameter: max. 275 cm (108.3 in.)

WEIGHT

Propeller-Design Configuration
“Constant Speed, Feather, Reverse”: approx. 69 kg (152.1 lb.)(See Note 6).

HUB/BLADE COMBINATIONS

Hub	Blade-Type
V 508(,-,B,D,Z,D-AG, D-2,E,E-AG)	-84, -99A, -99B, -106, 91, 93, -108B
V 508(H)	-84B, -99C, -99D, -106B, 91B, 93B, -108

CONTROL SYSTEM

Propeller governors as listed in Avia Propeller Service Bulletin No. 3.

ADAPTATION TO ENGINE

Flange, bolt spacing diameter 107.95 mm (4.25 in.)

DIRECTION OF ROTATION

Right-hand tractor (viewed in flight direction).

OPERATING LIMITATIONS

1. Maximum Take Off Power and Speed
635 kW (851 hp) at 2080 rpm - All Hub Models, All Blade Types except Type -108/108B
597 kW (800 hp) at 2080 rpm - All Hub Models, Blade Type -108/108B
635 kW (851 hp) at 2000 rpm - All Hub Models, All Blade Types
647 kW (867 hp) at 1900 rpm - All Hub Models, only Blade Types -106/106B, -108/108B
559 kW (749 hp) at 2200 rpm - Hub Model V508H, Blade Types -84B, -91B, -93B, -99C, -99D, -106B, -108

2. Maximum Continuous Power and Speed
635 kW (851 hp) at 2080 rpm - All Hub Models, All Blade Types except Type -108/108B
597 kW (800 hp) at 2080 rpm - All Hub Models, Blade Type -108/108B
635 kW (851 hp) at 2000 rpm - All Hub Models, All Blade Types
647 kW (867 hp) at 1900 rpm - All Hub Models, only Blade Types -106/106B, -108/108B
559 kW (749 hp) at 2200 rpm - Hub Model V508H, Blade Types -84B, -91B, -93B, -99C, -99D, -106B, -108

3. Propeller Pitch Angle
From -21,5° to +82° measured at 75% radius station

Operating and Service Instructions

Operation and Installation Manual	P/N E-1500 Issue 2, May 10, 2011 (*)
Overhaul Manual	P/N E-1461 Issue 1, March 17, 2009 (*)
Overhaul Manual for Metal Blades	P/N EN-1370 Issue 2, March 17, 2009 (*)
Service Bulletins	as noted in the current List of Service Bulletins

(*) effective is the declared issue or a later approved revision

CERTIFICATION BASIS

Brazilian Type Certificate N° 1999T07 based on RBAC 21.29 and RBHA 35 (Brazilian Requirements for Aeronautical Certification), which endorses the Code of Federal Regulations Title 14, Part 35, effective 01 February 1965, including amendments 1 through 6.

ANAC TYPE CERTFICATION DATES

Model	Application	Issued TC
VJ8.508D-AG (Note 10)	22 March 1999	17 Abril 2000
V 508, V 508B, V 508D, V 508D-2, V 508D-AG, V 508E, V 508E-AG, V 508Z	20 October 2003	30 September 2004
V 508H	31 October 2011	03 February 2012

PRODUCTION BASIS

Same that TC's holder.

STATE OF DESIGN AUTHORITY REFERENCE DOCUMENT

EASA TCDS No. P.028, Issue 09, 05 Aug. 2026.

IMPORT REQUIREMENTS

Each propeller imported separately and/or spare parts must be accompanied by an EASA Export Airworthiness Approval (Ref. EASA Form 1, Authorized Release Certificate, certifying that the propeller conforms to a type design approved by the ANAC, as specified in the ANAC's Type Certificate No. 1999T07, is in condition for safe operation and has undergone a final operational check. The Export Airworthiness Approval should be sent with the propellers/spare parts and a copy remains with the issuing organization.

For each propeller it is required a list of exceptions (if any) in respect to the ANAC approved Type Design, listed in the EASA Export Airworthiness Approval above mentioned.

Note: ANAC approved Type Design corresponds to the EASA approved Type Design; an Export Airworthiness Approval indicating compliance with the EASA approved Type Design defined by the EASA Type Certificate P.028 is acceptable to establish compliance with the ANAC approved Type Design.

NOTES

NOTE 1 Propeller Designation system

The complete propeller designation is a combination of propeller hub, propeller blade and additional specifications as shown below:

Hub / Blade
V508 ( ) ( ) / 99 A / A
(1) (2)(3) / (1)(2)/(3) , where:

Hub

1- Propeller model V 508
2- code letter for Hub version (model)
   - Blank = Denotes basic version
   - B = Without overspeed governor
   - D = With overspeed governor
   - D-2 = With overspeed governor, basic setting of reverse angle -8º
   - D-AG = With overspeed governor, basic setting of minimum flight angle 10º, used at agricultural aircraft
   - E = With overspeed governor, with secondary pitch lock
   - E-AG = With overspeed governor, with secondary pitch lock, used at agricultural aircraft
   - Z = With overspeed governor, basic setting of reverse angle -3º, used at agricultural aircraft
   - H = Single acting

3- code letter for design changes (in brackets)
   small letter for changes which do not affect interchangeability
   capital letter for changes which restrict or exclude interchangeability

Blade

1- Propeller diameter in inches
2- Code letter for blade type (contains design configuration and aerodynamic data) according to the certified hub/blade - combinations
3- Code letter for de-icing
   - A = Denotes without de-icing
   - B1 = Denotes de-icing 28 VDC, single element
   - B2 = Denotes de-icing 28 VDC, dual element

NOTE 2 Pitch control:

a) Pitch control is provided by hydraulic dual-acting system, except model V 508H which uses single-acting system.
b) The propellers are approved for flight operations with propeller governors which are listed in Avia Propeller Service Bulletin Nº 3.

NOTE 3 Feathering and Reversing:

a) Feathering. The propellers incorporate feathering and unfeathering features.
b) Reversing. All propeller models incorporate reversing feature (system Walter, except V 508H which uses system Pratt & Whitney).

NOTE 4 Left hand rotation model:

Not applicable. The propeller is approved for right-hand tractor, relative to the flight direction.

NOTE 5 Deleted

NOTE 6 Accessories:
a) The propellers are approved for flight operation with the accessories according to Avia Propeller Service Bulletin No. 3
b) Propellers Icing Protection according to Avia Propeller Service Bulletin No. 4
c) Propeller spinner according to Avia Propeller Service Bulletin No.2
Weight of the propeller spinner is included in the total weight of the propeller

NOTE 7 Deleted

NOTE 8 Special Limits:
Suitability of the propeller for a given aircraft/engine-combination must be demonstrated within the scope of the type certification of the aircraft.

NOTE 9 The EASA approved Airworthiness Limitations Section of the Instructions for Continued Airworthiness is published in the applicable "Propeller Operation and Installation Manual" document, chapter 1. "Airworthiness Limitations".

NOTE 10 Deleted

Change Record

Revision	Date	Changes	TC Issue/ Reissued
Rev. 04	11 May 2022	Inclusion of the blade 91, 91B, 93, 93B, 108 and 108B, and the increase of power.	N/A
Rev. 05	06 March 2023	Increase power for blades 106/106B and 108/108B	N/A
Rev. 06	14 Oct. 2026	New operating limitation for all hub models, blade type - 108/108B and Propeller designation system update. (Both associated with EASA Major Change Approval 10090274)	N/A

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This TCDS is available at ANAC website:
https://sistemas.anac.gov.br/certificacao/Produtos/EspecificacaoOrgE.asp