European Aviation Safety Agency

EASA

TYPE-CERTIFICATE
DATA SHEET

Number : P.027
Issue : 01
Date : 02 June 2009
Type : Avia Propeller Ltd.
V 506 series propellers

Variants
V 506

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I. General

1. Type/Variants

V 506

2. Type Certificate Holder

Avia Propeller Ltd.
Beranových 65/666
199 00 Praha 9 – Letňany
Czech Republic

Design Organisation Approval No.: EASA.21J.072

3. Manufacturer

Avia Propeller Ltd.
Beranových 65/666
199 00 Praha 9 – Letňany
Czech Republic

4. Date of Application

V 506
20.7.1961

5. Reference Date for determination of the applicable requirements

20 July 1961.

6. Certification Date

V 506
30.9.1961

Type certification of the V 506 series propeller model has been covered previously by Czech Republic Type certificate No.6 661/61, Amendment 2 incl.

II. Certification Basis

1. Airworthiness Standards

British Civil Airworthiness Requirements (BCAR), Section C, Issue 4, dated 1st March, 1957

Note:
Application was made to CAA - Czech Republic (former Czechoslovakia) before EASA was established. The applicable airworthiness standards were established in accordance with the rule in Czech Republic (former Czechoslovakia) at the time of application.

III. Technical Characteristics

1. Type Design Definition

The V 506 propeller model covers the following design configuration. Design configuration is defined by a main assembly drawing and an appropriate parts list.

V 506
Design Configuration “Constant Speed, Feather”
Drawing No. V506-0000 dated May 22, 2009 (*1)
Parts List No. R-V506-0000 dated May 22, 2009 (*1)

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

2. Description

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

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

4. Dimensions

Propeller diameter: max.190 cm

5. Weight

Propeller-Design Configuration
"Constant Speed, Feather": approx. 32,6 kg

6. Hub/Blade-Combinations

Hub	Blade-Type
V 506-2101	V506-1

7. Control System

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

8. Adaptation to Engine

Flange, bolt spacing diameter 120 mm

9. Direction of Rotation

Left-hand tractor (viewed in flight direction).

IV. Operational Limits

1. Propeller Speed:

max. 2750 min^{-1}

2. Max.Take-Off Power:

184 kW

3. Max.Continous Power:

184 kW

4. Propeller Pitch Angle:

From +16° to +84,5° measured at reference station

V. Operating and Service Instructions

Operation and Installation Manual	P/N E-1640 Date of Latest Issue/Revision Issue 1, May 22, 2009 (*)
Overhaul Manual Overhaul Manual for Metal Blades	P/N E-1641 Date of Latest Issue/Revision Issue 1, May 22, 2009 (*) P/N EN-1370 Date of Latest Issue/Revision 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

VI. Notes

1. The suitability of the propeller for a given aircraft/engine-combination must be demonstrated within the scope of the type certification of the aircraft.

2. The overhaul intervals recommended by the manufacturer are listed in Avia Propeller Service Bulletin No. 1.

3. EASA Type Certificate and Type Certificate Data Sheet No.P.027 replace CAA - Czech Republic Type Certificate and Type Certificate Data Sheet No.6 661/61, Amendment 2 incl.
