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# TYPE-CERTIFICATE DATA SHEET

No. P.027

**for**

V 506 series propellers

**Type Certificate Holder**

Avia Propeller Ltd.

Beranových 65/666  
199 00 Praha 9 - Letňany  
Czech Republic

For Models:  
V 506



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## I. General

### 1. Type / Model

V 506

### 2. Manufacturer

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

### 3. Date of Application

V 506
20.7.1961

### 4. EASA Type 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. State of Design Authority Certification Basis

Czech Republic

### 2. Reference Date for determining the applicable airworthiness requirements

20 July 1961

### 3. EASA Certification Basis

#### 3.1. 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.

#### 3.2. Special Conditions

None



### 3.3. Equivalent Safety Findings

None

### 3.4. Deviations

None

## 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. Operating Limitations

### 1. Maximum Take Off Power and Speed

184 kW at 2750 min<sup>-1</sup>

### 2. Maximum Continuous Power and Speed

184 kW at 2750 min<sup>-1</sup>

### 3. 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	P/N E-1641 Date of Latest Issue/Revision Issue 1, May 22, 2009 (*)
Overhaul Manual for Metal Blades	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.

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

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.

## SECTION: ADMINISTRATIVE

### I. Acronyms and Abbreviations

n/a

### II. Type Certificate Holder Record

n/a

### III. Change Record

TCDS Issue	Date	Changes	TC issue
Issue 01	02 June 2009	Initial Issue	Initial Issue, 02 June 2009
Issue 02	15 December 2022	Addition of a sentence to Note 2 in Chapter VI. Notes: The EASA approved Airworthiness Limitations Section of the Instructions for Continued Airworthiness is published in the applicable „Propeller Operation and Installation Manual“ document, chapter Airworthiness Limitations. (Major Change approval 10080700)	

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