

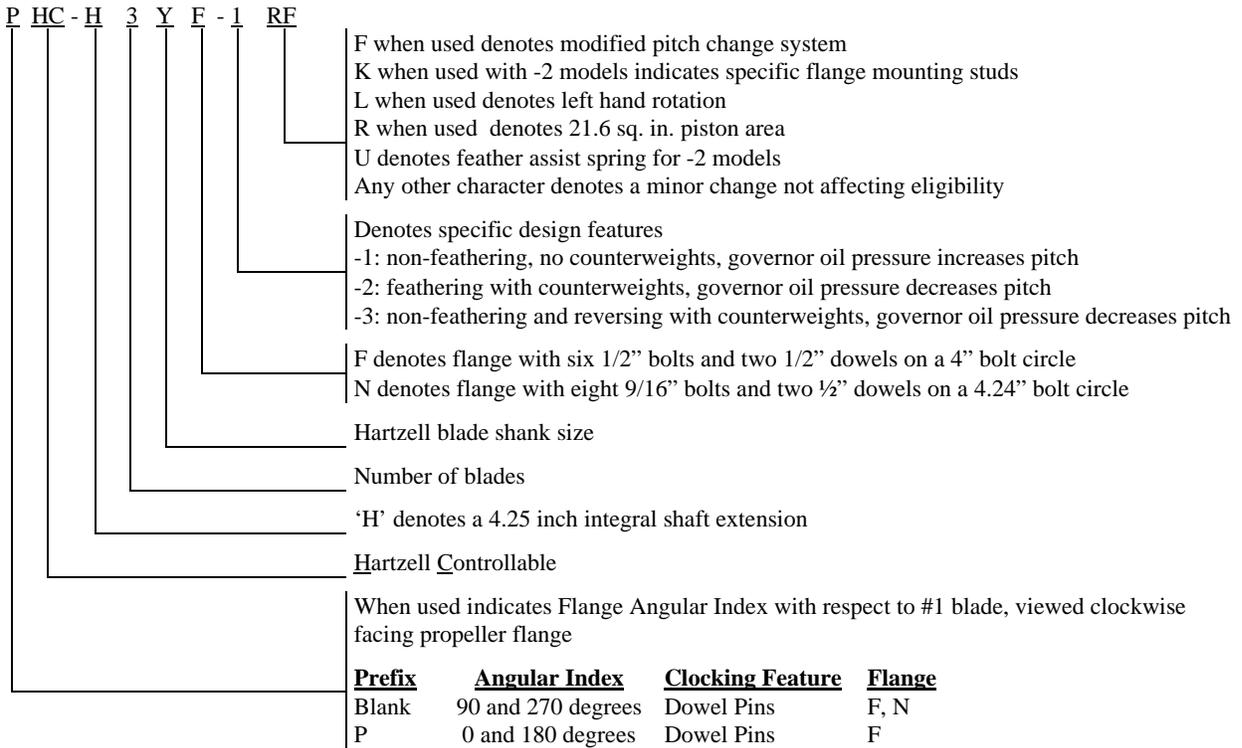


Blades (See Note 2)	Maximum Continuous		Takeoff		Diameter Limits Construction	Approx. Max. Wt. Complete (For Reference Only) (See Notes 3 and 7)	Blade Construction
	HP	RPM	HP	RPM			
C8465-0 to C8465-14	310	2700	310	2700	86" to 72" (-0 to -14)	86.0 lb.*	Aluminum Alloy
C8467-0 to C8467-14	310	2575	310	2575	86" to 72" (-0 to -14)	90.0 lb.*	Aluminum Alloy
C8468-0 to C8468-14	310	2625	310	2625	86" to 72" (-0 to -14)	87.0 lb.*	Aluminum Alloy
C8470-0 to C8470-14	310	2700	310	2700	86" to 72" (-0 to -14)	86.0 lb.*	Aluminum Alloy
C8475+2 to C8475-0	435	2266	435	2266	88" to 86" (+2 to -0)	90.0 lb.*	Aluminum Alloy
C8475-0 to C8475-14	310	2575	310	2575	86" to 72" (-0 to -14)	90.0 lb.*	Aluminum Alloy
	or 435	or 2266	or 435	or 2266			
C8477-0 to C8477-14	310	2575	310	2575	86" to 72" (-0 to -14)	93.0 lb.*	Aluminum Alloy
C9684-12 to C9684-18	320	2200	320	2200	84" to 78" (-12 to -18)	93.0 lb.*	Aluminum Alloy

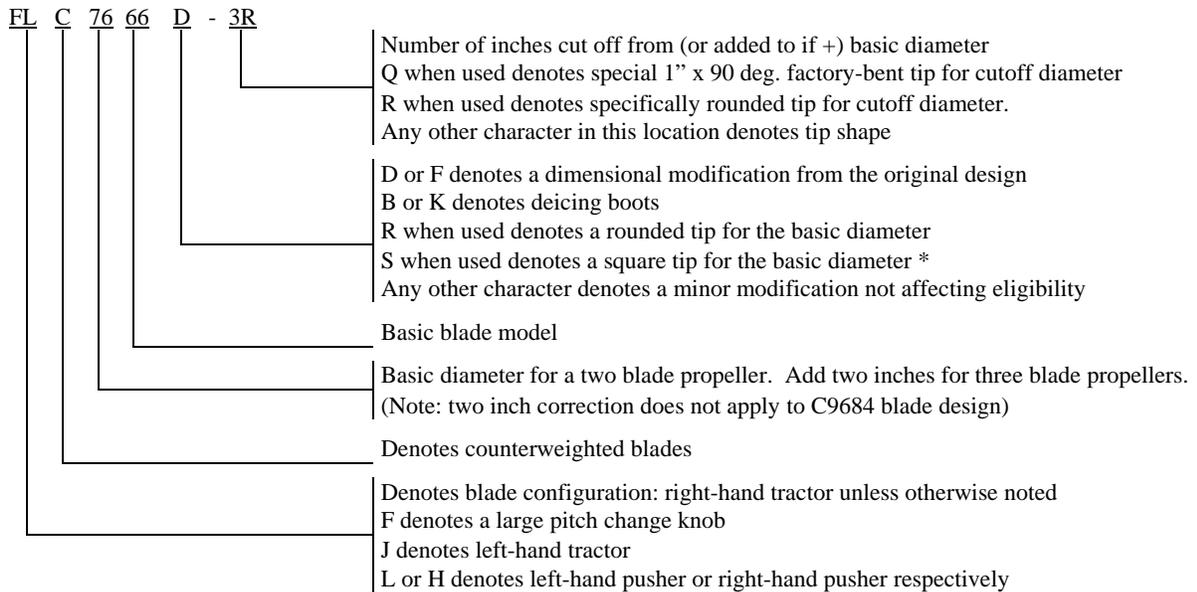
\* Weights apply to -2 propellers only. Add 7 lbs. for -3 models.

Certification Basis:	14 CFR Part 35 effective February 1, 1965 with amendments 35-1 and 35-2 thereto. Type Certificate No. P35EA issued December 31, 1970 under Delegated Option Authorization procedures of 14 CFR Part 21 Subpart J. Date of application for Type Certificate: December 15, 1970  The following models were approved to the original certification basis: HC-H3YF-(2,3); HC-H3YN-2  Models added, updated or revised in accordance with 14 CFR Part 35 effective August 18, 1990 with amendments 35-1 through 35-6 include the following: HC-H3YF-(1,2,3); PHC-H3YF-(1,2); HC-H3YN-2
Production Basis:	Production Certificate no. 10

Note 1: Hub Model Designation (See Notes 4 and 5)



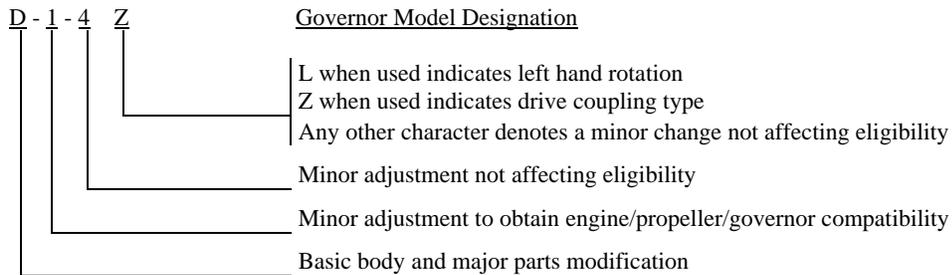
Note 2: Blade Model Designation (See Notes 5 and 6)



\* Blades may incorporate either round or square tips, yet may not be marked with an "R" or "S" in their model designation. This character is used to distinguish between two or more tip shapes available at the same diameter. Certain blades use "S" to denote shot peening of the exterior surface.

Note 3: Pitch Control (See Notes 4, 6 and 10)

(a) Approved with Hartzell governors per drawings C-4770 and C-4772. Wt.: 4.5 lb.



(b) The -1 propeller models use oil to increase pitch and do not have counterweighted blades. The -2 and -3 models have counterweighted blades and use oil to decrease pitch.

(c) Maximum governor output pressure: 350 psi for all propeller models

(d) All governors must be approved as part of the aircraft installation regardless of manufacturer.

Note 4: Feathering The -1 and -3 models do not feather.  
The -2 models incorporate feathering and unfeathering features.

Reversing The -3 models are eligible for installation as reversing propellers with appropriate reversing controls.

Note 5: Left-Hand Models (See Notes 1 and 2)

The left-hand version of an approved propeller model is approved at the same rating and diameter as listed for the right-hand model.

Note 6: Interchangeability (See Notes 2 and 3)

(a) Governors

Hartzell governors with a "Z" suffix in their model designation may be used interchangeably with corresponding governors without the "Z". For example, the F-6-24Z is a replacement for the F-6-24 and the F-6-24 is a replacement for the F-6-24Z.

(b) Blades

Shot-peened blades may replace non shot-peened blades either individually or as a set

(c) Ice protection systems

Refer to Hartzell Service Letter HC-SL-30-260 for ice protection system component interchangeability.

Note 7: Accessories

- (a) Propeller ice protection system (weight of ice protection equipment extra)
  - (1) Propeller models listed in this data sheet are approved for use with propeller ice protection equipment listed in Hartzell Manual 159( ) or in other Hartzell type design data.
  - (2) All propeller ice protection equipment must be approved as part of the aircraft installation regardless of manufacturer. (See NOTE 10)
- (b) Propeller spinner (weight of spinner extra)
  - (1) Approved with Hartzell and other manufacturers' spinners when listed on Hartzell type design data.
  - (2) All propeller spinners must be approved as part of the aircraft installation regardless of manufacturer. (See NOTE 10)

Note 8: Shank Fairings Not applicable.Note 9: Special Limits

Table of Propeller - Engine Combinations  
Approved Vibrationwise for Use on Normal Category Single Engine Tractor Aircraft

The maximum and minimum propeller diameters that can be used from a vibration standpoint are shown below. No reduction below the minimum diameter listed is permissible, since this figure includes the diameter reduction allowable for repair purposes.

The engine models listed below are the configurations on the engine type certificate unless specifically stated otherwise. Modifications to the engine or airframe that alter the power of the engine models listed below during any phase of operation have the potential to increase propeller stresses and are not approved by this list. Such modifications include, but are not limited to, the addition of a turbocharger or turbonormalizer, increased boost pressure, increased compression ratio, increased RPM, altered ignition timing, electronic ignition, full authority digital engine controls (FADEC), or tuned induction or exhaust. Also, any change to the mass or stiffness of the crankshaft/counterweight assembly is not approved by this list.

<u>Hub Model</u>	<u>Blade Model</u>	<u>Engine Model</u>	<u>Max. Dia. (inches)</u>	<u>Min. Dia. (inches)</u>	<u>Placards</u>
PHC-H3YF	F7490	TCM TSIO-550-B	76	75.5	Do not exceed 30 in. manifold pressure below 2500 RPM
PHC-H3YF	F7490	TCM IO-550-G	76	75.5	none
PHC-H3YF	F7691( )	TCM IO-520-A, -B, -BA, BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB	78	77	Do not exceed 20 in. manifold pressure below 2200 RPM
PHC-H3YF	F7691( )	TCM IO-550-A, -B, -C, -D, -F, -G, -L	78	77	Do not exceed 20 in. manifold pressure below 2200 RPM
HC-H3YF PHC-H3YF	F7693( )	TCM IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R, TCM TSIO-550-B, -C, -E	78	75	none

Note 10: Propeller installation must be approved as part of the aircraft Type Certificate and demonstrate compliance with the applicable aircraft airworthiness requirements.

Propeller models listed herein consist of basic hub and blade models. Most propeller models include additional characters to denote minor changes and specific features as explained in Notes 1 and 2. Refer to the aircraft Type Certificate Data Sheet for the specific propeller model applicable to the installation.

Note 11: Retirement Time

(a) Life Limits and Mandatory Inspections

(1) Airworthiness limitations, if any, are specified in Hartzell Manuals 113(), 115N or 117()

Note 12: Special Notes

(a) Refer to Hartzell Manual no. 202( ) for overspeed and overtorque limits.

(b) Refer to Hartzell Service Letter HC-SL-61-61( ) for overhaul periods.

END