

| Blade Eligible (See Note 2) | Maximum Continuous | | Takeoff | | Diameter Limits (See Note 2) | Hub and Blade Weight (Max Diameter) | NOTES |
|--|--------------------|------|---------|------|--|--|-----------|
| | HP | RPM | HP | RPM | | | |
| 6459-0 to 6459-24 | 1200 | 1800 | 1320 | 1980 | 11' 6-7/8" - 9' 6-7/8" (-12 to -18) | 312 lbs. | 6 |
| 6459-12 to 6459-18 6490 is the left-hand version of 6459. | 1275 | 1670 | 1425 | 1800 | 10' 6-7/8" - 10' -7/8" (-12 to -18) | 312 lbs. | 6 5 |
| 6487-0 to 6487-12 | 1325 | 1440 | 1660 | 1550 | 13' -7/8" - 12' 7/8" (-0 to -12) | 340 lbs. | 6, 8 |
| 6487-12 to 6487-30 6488 is the left-hand version of 6487. | 1300 | 1620 | 1430 | 1780 | 12' -7/8" - 10' 6-7/8" (-12 to -30) | 337 lbs. | 6, 8 5 |
| 6493-0 to 6493-12 | 1300 | 1440 | 1430 | 1550 | 13' -7/8" - 12' -7/8" (-0 to -12) | 340 lbs. | 6, 8 |
| 6493-12 to 6493-24 6494 is the left-hand version of 6493. | 1300 | 1620 | 1430 | 1780 | 12' -7/8" - 11' -7/8" (-12 to -24) | 337 lbs. | 6, 8 5 |
| 6495-0 to 6495-12 | 1300 | 1440 | 1430 | 1550 | 13' -7/8" - 12' -7/8" (-0 to -12) | 340 lbs. | 6, 8 |
| 6495-12 to 6495-24 6496 is the left-hand version of 6495. | 1300 | 1620 | 1430 | 1780 | 12' -7/8" - 11' 7/8" (-12 to -24) | 337 lbs. | 6, 8 5 |
| 6505-0 to 6505-24 | 1200 | 1800 | 1320 | 1980 | 11' 6-7/8" - 9' 6-7/8" (-0 to -24) | 315 lbs. | 6 |
| 6505-12 to 6505-18 6506 is the left-hand version of 6505. | 1275 | 1670 | 1425 | 1800 | 10' 6-7/8" - 10' -7/8" (-12 to -18) | 312 lbs. | 6 5 |
| 6511-0 to 6511-24 | 1200 | 1800 | 1320 | 1980 | 11' 6-7/8" - 9' 6-7/8" (-0 to -24) | 315 lbs. | 6 |
| 6511-12 to 6511-18 6512 is the left-hand version of 6511. | 1275 | 1670 | 1425 | 1800 | 10' 6-7/8" - 10' -7/8" (-12 to -18) | 312 lbs. | 6 |
| 6523-0 to 6523-12 | 1325 | 1440 | 1660 | 1550 | 13' -7/8" - 12' -7/8" (-0 to -12) | 340 lbs. | 6, 8 |
| 6523-12 to 6523-30 6524 is the left-hand version of 6523. | 1300 | 1620 | 1430 | 1780 | 12' -7/8" - 10' 6-7/8" (-12 to -30) | 337 lbs. | 6, 8 |
| 6529-0 to 6529-24 | 1200 | 1800 | 1320 | 1980 | 11' 6-7/8" - 9' 6-7/8" (-0 to -24) | 315 lbs. | 6 |
| 6529-12 to 6529-18 6530 is the left-hand version of 6529. | 1275 | 1670 | 1425 | 1800 | 10' 6-7/8" - 10' -7/8" (-12 to -18) | 312 lbs. | 6 |
| 6539-0 to 6539-12 | 1300 | 1440 | 1430 | 1550 | 13' -7/8" - 12' -7/8" (-0 to -12) | 340 lbs. | 6, 8 |

| Blade Eligible (See Note 2) | Maximum Continuous | | Takeoff | | Diameter Limits (See Note 2) | Hub and Blade Weight (Max Diameter) | NOTES |
|--|--------------------|------|---------|------|--|--|---------------|
| | HP | RPM | HP | RPM | | | |
| 6539-12 to 6539-24 6540 is the left-hand version of 6539. | 1300 | 1620 | 1430 | 1780 | 12' -7/8" - 11' -7/8" (-12 to -24) | 337 lbs. | 6, 8 5 |
| 6545-0 to 6545-12 | 1325 | 1440 | 1660 | 1550 | 13' -7/8" - 12' -7/8" (-0 to -12) | 340 lbs. | 6, 8 |
| 6545-12 to 6545-30 6546 is the left-hand version of 6545. | 1300 | 1620 | 1430 | 1780 | 12' -7/8" - 10' 6-7/8" (-12 to -30) | 337 lbs. | 6, 8 5 |
| 6547-12 to 6547-24 6548 is the left-hand version of 6547. | 1050 | 1440 | 1200 | 1580 | 10' 6-7/8" - 9'6-7/8" (-12 to -24) | 341 lbs. | 6 5 |
| 6569-12 to 6569-24 6570 is the left-hand version of 6569. | 1050 | 1440 | 1200 | 1580 | 10' 6-7/8" - 9'6-7/8" (-12 to -24) | 341 lbs. | 6 5 |
| 6571-0 to 6571-24 6572 is the left-hand version of 6571. | 1300 | 1620 | 1430 | 1780 | 11' 6-7/8" - 9' 6-7/8" (-0 to -24) | 338 lbs. | 6 5 |
| 6601-0 to 6601-6 | 1300 | 1620 | 1430 | 1780 | 11' 6-7/8" - 11' -7/8" (-0 to -6) | 336 lbs. | 6 |
| 6601-6 to 6601-24 6602 is the left-hand version of 6601. | 1275 | 1670 | 1425 | 1800 | 11' -7/8" - 9'6-7/8" (-6 to -24) | 333 lbs. | 6 5 |
| 6863-0 to 6863-25 6864 is the left-and version of 6863. | 1200 | 1435 | 1450 | 1520 | 11' 6-7/8" - 9'5-7/8" (-0 to -25) | 338 lbs. | 6 5 |
| 6931-12 to 6931-24 6932 is the left-hand version of 6931. | 1200 | 1665 | 1350 | 1800 | 10' 6-7/8" - 9' 6-7/8" (-12 to -24) | 341 lbs. | 6 |
| 6951-12 to 6951-24 6952 is the left-and version of 6951. | 1200 | 1665 | 1350 | 1800 | 10' 6-7/8" - 9' 6-7/8" (-12 to -24) | 341 lbs. | 6 5 |
| 7035-0 to 7035-24 | 1200 | 1800 | 1320 | 1980 | 11' 6-7/8" - 9' 6-7/8" (-0 to -24) | 315 lbs. | 6 |
| 7035-12 to 7035-18 7036 is the left-hand version of 7035. | 1275 | 1670 | 1425 | 1800 | 10' 6-7/8" - 10' -7/8" (-12 to -18) | 315 lbs. | 6 5 |

Certification basis

CAR 14 as amended to May 31, 1938.

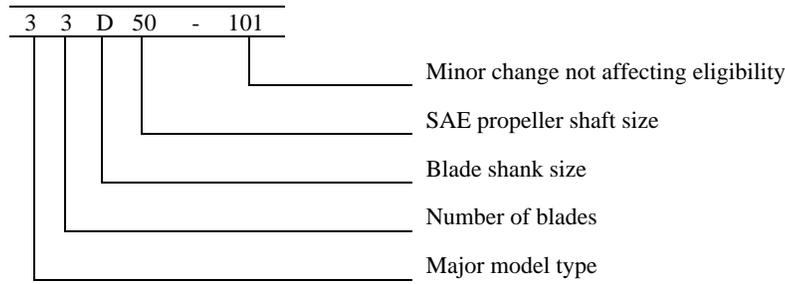
Type Certificate No. 749, issued October 12, 1940.

Date of application for Type Certificate September 11, 1940

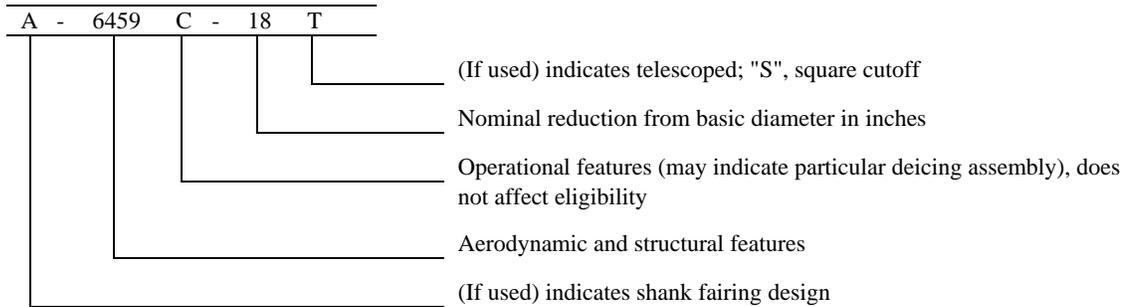
Production basis

Production Certificate No. 14

NOTE 1. Hub Model Designation



NOTE 2. Blade Model Designation



The blade model designation suffixed with "T" indicates a diameter reduction by telescoping. Blade models with square cutoffs in accordance with Hamilton Standard blade drawings are suffixed with "S" except the following blades use square cutoffs not designated by "S": Blade models 6547 and 6569. Telescoped blades and blades with a square cutoff are eligible at the same ratings and diameter limits as blades with standard cutoff. Diameter limits shown are nominal diameters of the assembled propeller and do not include the $\pm 1/8$ inch manufacturing tolerance permissible for propellers with basic diameter less than 14 feet or $\pm 1/4$ inch permissible for proellers with basic diameter 14 feet or larger.

NOTE 3. Pitch Control. Eligible with Hamilton Standard constant speed governor only.

NOTE 4. Feathering. Eligible with full feathering control installed in accordance with the propeller manufacturer's instructions.

NOTE 5. Left-hand Models. The left hand version of an approved model propeller is eligible at the same rating and diameter limitations as listed for the right hand model.

NOTE 6. Interchangeable Blades. Blades with an "S" or "T" suffix (see NOTE 2) are not interchangeable aerodynamically or vibrationwise with each other or with blades having normal round cutoffs. Only blades listed in the same group of the following groups are aerodynamically similar. Only blades listed under the same type in any one group are structurally similar. A higher type number implies a higher strength. This is due to differences in alloys and in cold working of the blade surface.

Type 1 includes standard alloy nonsurface treated blades; Type 2, hard alloy nonsurface treated blades; Type 3, hard alloy blades with cold worked shanks; Type 4, hard alloy blades with cold worked shanks and shot peened surfaces.

The following defines the degree to which these blades may be used interchangeably in the same diameter without a flight performance test and without a vibration survey:

- Type 2 blades may replace Type 1 blades in the same group, but not vice versa.
- Type 3 blades may replace either Type 1 or Type 2 blades in the same group, but not vice versa.
- Type 4 blades may replace either Type 1, Type 2, or Type 3 blades in the same group, but not vice versa.

Reference should always be made to the ratings of the blades, and blades with different model numbers cannot be incorporated in the same propeller unless the aircraft certification specifically permits this.

| | <u>Type 1</u> | <u>Type 2</u> | <u>Type 3</u> | <u>Type 4</u> |
|-----------|---------------|------------------|---------------|---------------|
| Group (a) | 6523, 6545 | 6257, 6457, 6487 | | |
| Group (b) | 6511, 6529 | 6259, 6459, 6505 | 7035 | |
| Group (c) | | 6493, 6495, 6539 | | |
| Group (d) | 6547, 6569 | | 6931 | 6951 |
| Group (e) | | 6571, 6601 | | |

NOTE 7. Accessories.

(a) Propeller Deicing.

- (1) Eligible with Hamilton Standard deicing slinger ring assemblies only.
- (2) Eligible with Goodrich No. 37572 propeller deicer fluid feed strips.
- (3) Eligible with Goodrich No. 36889 propeller deicer fluid feed rings.

(b) Propeller Spinner

- (1) Eligible with spinner supplied by Hamilton Standard.

NOTE 8. Shank Fairings. A letter and a dash prefix included in the blade model designation (as A-6257) indicates that the blade assembly includes molded shank fairings. Fairings are eligible only on those model blades specifically designated. The following procedure should be followed when determining if blades with molded shank fairings are eligible on a model aircraft.

- (a) Refer to the pertinent propeller specification and determine whether an assembly of the blade model in question is eligible to incorporate a molded shank fairing.
- (b) Refer to the pertinent aircraft specification and determine whether the same model blade with incorporated molded shank fairing is eligible in the propellers of that model aircraft.

NOTE 9. Special Limits. Not applicable.

NOTE 10. Special Notes. The word "eligible" as used herein does not signify approval. For approval compliance with the applicable aircraft airworthiness requirements is necessary.

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