2600 SKYPARK DRIVE, TORRANCE, CALIFORNIA 90509 U.S.A.

HI-SHEAR Corporation, USA a LISI AEROSPACE Company

Design Holder

CAGE No. 73197

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INDENTED HEAD MARKING .010 MAX DEPTH. MANUFACTURER'S TRADEMARK "hs" PER	— (MAX GRIP + B) ±.010 ———	REMAINING PORTION OF HI-LOK™ COLLAR AFTER ASSEMBLY
\ SPEC. 363. THE NUMBER(S) FOLLOWING \[\]	⟨ GRIP ± .005	TYPICAL COLLARS: HL75, HL87, HL278
R RA	AD TO THE TOTAL PROPERTY OF THE TOTAL PROPER	
249	100.	
(1) 99° DIA	- DIA 90.	
z 10	D DIA DIA THREAD ROLLED PER AS8879 (II)	COLLAR WRENCHING
- - - H 	THREAD ROLLED PER AS8879 (1) (MODIFIED). MAJOR DIA SHALL HI-LOK™ PIN BE PER "TD"	DEVICE AUTOMATICALLY SHEARS OFF

1 10 9 (10) **D** DIA SOCKET DOUBLE FIRST TENSION TD **THREAD** SHEAR WITHOUT DASH NOM WITH F Н **POUNDS** CHAMFER COATING COATING OR SOLID DIA REF DIA RAD MAX MODIFIED **POUNDS** MINIMUM NO. DIA HEX DIA DEPTH MINIMUM FILM -5 3/16 NOTE: Use HL49-6 .3813 .3765 .2026 .2021 .2026 .1840 .0750 .030 .1900-32 .0806 .135 .119 1/32 x 45° -6 13/64 .325 .005 .015 6,130 3,180 .2016 .1810 .0730 .020 UNJF-3A .0791 115 .104 .5066 .2651 .2651 2440 .1013 .030 .2500-28 .0967 .150 .142 .395 1/32 x 45° 10.490 5.820 -8 17/64 .006 .015 .5018 UNJF-3A .122 .2646 .2641 .2410 .0993.020 .0947 .130 .040 .3276 .1283 .3125-24 .1295 .170 .6335 .3276 .3060 .180 -10 21/64 .500 .015 3/64 x 45° 16,000 9,200 6287 .3271 .1263 UNJF-3A .1270 150 .160 .3266 .3020 .7604 .7556 .3901 .3901 .3680 .1553 .040 .3750-24 1617 .200 .217 3/64 x 45° 22,700 14,000 -12 25/64 .545 .008 .015 .3896 .3891 1533 .030 UNJF-3A 1582 .180 .197 .3640 .8884 .4526 .4526 .4310 1828 .050 .4375-20 .1930 .230 29/64 .635 .009 .022 3/64 x 45° 30.600 18.900 -14 .8812 .4521 .4516 .4260 1798 .040 UNJF-3A 1895 .210 .233 1 0139 5151 5151 4930 .2093 .050 .5000-20 2242 .260 289 -16 33/64 .685 .010 .022 3/64 x 45° 39,600 25,600 .5146 1.0068 .5141 .4880 .2063 040 UNJF-3A .2207 .240 .269 .5771 .050 .5625-18 .2555 .290 1.1408 .5771 .5550 .2430 .326 37/64 .770 .025 1/16 x 45° 49,700 32,400 -18 .010 1.1337 .5766 .5761 .5500 .2400 .040 UNJF-3A .2520 .270 .306 1.2723 .6396 .6396 .6180 .2720 .050 .6250-18 .2555 .330 .326 -20 41/64 .825 .010 .025 1/16 x 45° 41,000 61,000 1.2651 .6391 .6386 .6120 2690 .040 UNJF-3A .2520 .305 306 .7646 .7641 .7430 .7370 .3280 .3250 .050 .7500-16 UNJF-3A .3185 .3150 .395 .365 .398 .378 1.5308 1.5236 .7646 -24 49/64 1.050 .012 .025 1/16 x 45° 87,200 59,500 .7636

HI-LOK™ PIN AND COLLAR AFTER ASSEMBLY

SEE COLLAR STANDARDS FOR COLLAR STRENGTHS. LOWER STRENGTH (PIN OR COLLAR) DETERMINES SYSTEM STRENGTH

> * * The Double Shear values shown are based on cross sectional area for nominal diameter pin.

"HI-LOK", "HL", AND "HI-KOTE",
ARE TRADEMARKS OF HI-SHEAR CORPORATION

DRAWN BY	DATE	TITLE
BRIEJ	1963-05-28	HI-LOK™ PIN
		100° FLUSH MS24694 TENSION HEAD
APPROVED	DATE	A-286 HIGH TEMPERATURE ALLOY
CESSNA	1963-05-28	
0200.00	1903-03-20	1/16 GRIP VARIATION, 1/64 OVERSIZE
REVISION	DATE	DRAWING NUMBER

10 F.CARINGELLA 2017-11-08

HL249

1 OF 2



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GENERAL NOTES: 1 Head out fo roundness shall not exceed "F".

2. Concentricity: Conical suface of head to "D" diameter within .005 FIR.

3. "H" dimensioned from maximum "D" diameter. 10 4. Dimensions are in inches and to be met after finish.

[5] Non-lubed pins must be used with lubed collars.

(10) 6. Surface texture per ASME B46.1. 7. Hole preparation per NAS618.

8. Use HL749 for oversize replacement.

9 Maximum "D" diameter may be increased by .0002 to allow for solid film or coating application.

10 Curved or flat edge namufacturer's option.

(1) 11 After February, 21st of 2015, HI-KOTE™ 1 aluminum pigmented coating will be replaced by REACH compliant HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294 on fasteners coated in European Union.

MATERIAL: A-286 high temperature alloy per Spec. AMS5737 or AMS5731.

HEAT TREAT: 160,000 psi tensile minimum (95,000 psi shear minimum) at 70°F.

FINISH: HL249-()-() = Passivate per Hi-Shear Spec. 258, and cetyl alcohol lube per Hi-Shear Spec. 305.

10 11 HL249AZ-()-() = HI-KOTE™ 1 aluminum pigmented coating per Hi-Shear Spec. 294, with color black on

thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.

= Solid film lube per AS5272, Type I, and cetyl alcohol lube per Hi-Shear Spec. 305

[5] HL249PY-()-() = Passivate per Hi-Shear Spec. 258.

HL249V-()-() = Solid film lube per "Lubeco" 2123, Type II.

SPECIFICATION: HI-LOK™ Product Specification 342.

CODE: First dash number indicates nominal diameter in 1/32nds of the pin which HL249 oversize pin replaces.

Second dash number indicates maximum grip in 1/16ths.

See Finish note for explanation of code letters.

HOW TO ORDER

(10) EXAMPLE: Pin Part Number HL249AZ-8-8 [™] 8/16 or 1/2 Maximum Grip Length Replaces 8/32 or 1/4 Nominal Diameter Pin - Finish Code Pin Basic Part Number

> Pin and Collar Assembly Part Number Combination HL24987-8-8

> > Size and grip length, see above example

Collar Part Number Pin Basic Part Number