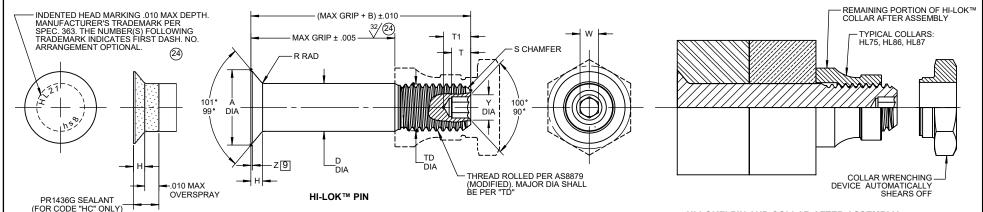
Design Holder CAGE No. 73197

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HI-LOK™ PIN AND COLLAR AFTER ASSEMBLY

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

									U								
FIRST	PIN											SOCKET				DOUBLE	TENSION
DASH NO.	NOM DIA	A DIA	B REF	D DIA	T D DIA	F REF	Н	R RAD	Z MAX	S CHAMFER REF	THREAD MODIFIED	W HEX	T DEPTH	T1 DEPTH MAX	Y DIA	SHEAR POUNDS MINIMUM	POUNDS MINIMUM
5	5/32	.3304 .3256	.312	.1635 .1625	.1595 .1570	.004	.0700 .0680	.025 .015	.010	1/32 x 45°	.1640-32 UNJC-3A	.0801 .0791	.135 .115	.165	7	4,010	2,180
6	3/16	.3813 .3765	.325	.1895 .1885	.1840 .1810	.005	.0805 .0785	.030 .020	.015	1/32 x 45°	.1900-32 UNJF-3A	.0806 .0791	.135 .115	.175	.119 .104	5,380	3,180
8	1/4	.5066 .5018	.395	.2495 .2485	.2440 .2410	.006	.1080 .1060	.030 .020	.015	1/32 x 45°	.2500-28 UNJF-3A	.0967 .0947	.150 .130	.200	.142 .122	9,300	5,820
10	5/16	.6335 .6287	.500	.3120 .3110	.3060 .3020	.007	.1350 .1330	.040 .030	.015	3/64 x 45°	.3125-24 UNJF-3A	.1295 .1270	.170 .150	.240	.180 .160	14,600	9,200
12	3/8	.7604 .7556	.545	.3745 .3735	.3680 .3640	.008	.1620 .1600	.040 .030	.015	3/64 x 45°	.3750-24 UNJF-3A	.1617 .1582	.200 .180	.275	.217 .197	21,000	14,000
14	7/16	.8884 .8812	.635	.4370 .4360	.4310 .4260	.009	.1895 .1865	.050 .040	.022	3/64 x 45°	.4375-20 UNJF-3A	.1930 .1895	.230 .210	.315	.253 .233	28,600	18,900
16	1/2	1.0139 1.0068	.685	.4995 .4985	.4930 .4880	.010	.2160 .2130	.050 .040	.022	3/64 x 45°	.5000-20 UNJF-3A	.2242 .2207	.260 .240	.360	.289 .269	37,300	25,600
18	9/16	1.1408 1.1337	.770	.5615 .5605	.5550 .5500	.010	.2430 .2400	.050 .040	.025	1/16 x 45°	.5625-18 UNJF-3A	.2555 .2520	.290 .270	.400	.326 .306	47,200	32,400
20	5/8	1.2723 1.2651	.825	.6240 .6230	.6180 .6120	.010	.2720 .2690	.050 .040	.025	1/16 x 45°	.6250-18 UNJF-3A	.2555 .2520	.330 .305	.440	.326 .306	58,300	41,000
24	3/4	1.5308 1.5236	1.050	.7490 .7480	.7430 .7370	.012	.3280 .3250	.050 .040	.025	1/16 x 45°	.7500-16 UNJF-3A	.3185 .3150	.395 .365	.520	.398 .378	83,900	59,500
28	7/8	1.7845 1.7773	1.210	.8740 .8730	.8680 .8610	.014	.3820 .3790	.050 .040	.025	5/64 x 45°	.8750-14 UNJF-3A	.3820 .3780	.400 .370	.560	.471 .451	114,000	81,500
32	1	2.0405 2.0310	1.390	.9990 .9980	.9930 .9860	.014	.4370 .4330	.050 .040	.025	5/64 x 45°	1.0000-12 UNJF-3A	.5100 .5040	.520 .490	.715	.618 .598	149,000	106,000

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

DRAWN BY	DATE	TITLE					
RIC	1963-03-11	HI-LOK™ PIN					
		100° FLUSH MS24694 TENSION HEAD					
APPROVED	DATE	ALLOY STEEL					
CESSNA	1963-03-13						
		1/16 GRIP VARIATION					
REVISION	DATE	DRAWING NUMBER					
(24)	C. ARTOS	□I 24					
	2023-12-21	ПL4 I 1 OF 2					

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

2. Concentricity: Conical surface of head to "D" diameter within .005 FIM. 3. "H" is dimensioned from maximum "D" diameter.

4. Dimensions are in inches and to be met after finish.

5. Surface texture per ASME B46.1.

6. Hole preparation per NAS618.

[7] Evidence of broken edge across points.

8 Non-lubed pins must be used with lubed collars or wet sealant.

9 Curved or flat edge manufacturer's option.

10. Use HL65 for oversize replacement.

(24) MATERIAL: Alloy steel per AMS6415, AMS6349, AMS6322 or AMS6382.

(24) **HEAT TREAT:** 160,000 - 180,000 psi tensile per AMS2759.

FINISH: HL21-()-() = Cadmium plate per AMS-QQ-P-416, Type I, Class 2, and Cetyl alcohol lube

per Hi-Shear Spec. 305.

= Cadmium plate per AMS-QQ-P-416, Type I, Class 2, and Precoat No. PR1436G sealant HL21HC()-()

(.002-.005 thick) plus cetyl alcohol lube per Hi-Shear Spec. 305.

= Diffused nickel-cadmium plate per AMS2416pe I, Class 2, and cetyl alcohol lube HL21N()-()

per Hi-Shear Spec. 305.

HL21PB()-() = Cadmium plate per AMS-QQ-P-416, Type II, Class 2, and cetyl alcohol lube per

Hi-Shear Spec. 305.

8 HL21PN()-() HL21RB()-() = Cadmium plate per AMS-QQ-P-416, Type II, Class 2.

= Cadmium plate per AMS-QQ-P-416, Type II, Class 2, color violet purple, and cetyl alcohol

lube per Hi-Shear Spec. 305.

SPECIFICATION: HI-LOK™ Product Specification 342.

CODE: First dash number indicates nominal diameter in 1/32nds. Second dash number indicates maximum grip in 1/16ths.

See Finish note for explanation of code letters.

HOW TO ORDER EXAMPLE: Pin Part Number

HL21PB8-8 8/16 or 1/2 Maximum Grip Length 8/32 or 1/4 Nominal Diameter Pin Finish Code Pin Basic Part Number

Pin and Collar Assembly Part Number Combination HL21PB86-8-8

Size and Grip Length, See Above Example - Collar Part Number

Finish Code Pin Part Number