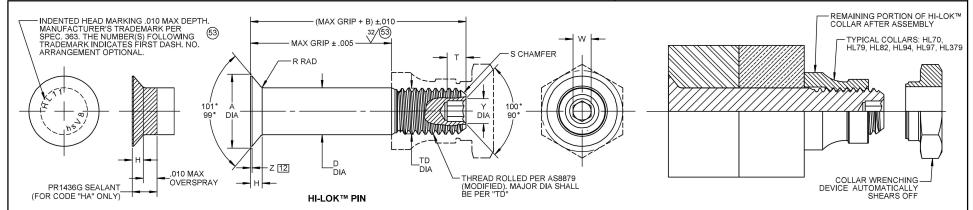
HI-SHEAR Corporation, USA a LISI AEROSPACE Company

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

					7		1										
FIRST DASH NO.	PIN NOM DIA	<b>A</b> DIA	<b>B</b> REF	D DIA		TD	F		R	z	s	THREAD	SOCKET			DOUBLE SHEAR	TENSION
				COATING OR SOLID FILM	COATING OR SOLID FILM	DIA	REF	Н	RAD	MĀX	CHAMFER REF	MODIFIED	W HEX	<b>T</b> DEPTH	<b>Y</b> DIA	DOLINDS	POUNDS MINIMUM
4	1/8	.2219 .2171	.294	.1375 .1370	.1375 .1365	.1335 .1310	.003	.0354 .0334	.025 .015	.010	1/32 x 37°	.1380-32 UNJC-3A	.0645 .0635	.100 .085	10	2,840	950
5	5/32	.2612 .2564	.312	.1635 .1630	.1635 .1625	.1595 .1570	.004	.0410 .0390	.025 .015	.010	1/32 x 37°	.1640-32 UNJC-3A	.0645 .0635	.135 .115	.090 .075	4,010	1,650
6	3/16	.3016 .2966	.325	.1895 .1890	.1895 .1885	.1840 .1810	.005	.0470 .0450	.030 .020	.015	1/32 x 37°	.1900-32 UNJF-3A	.0806 .0791	.135 .115	.119 .104	5,380	2,000
8	1/4	.3948 .3898	.395	.2495 .2490	.2495 .2485	.2440 .2410	.006	.0610 .0590	.030 .020	.015	1/32 x 37°	.2500-28 UNJF-3A	.0967 .0947	.150 .130	.142 .122	9,300	3,700
10	5/16	.4739 .4689	.500	.3120 .3115	.3120 .3110	.3060 .3020	.007	.0680 .0660	.040 .030	.015	3/64 x 37°	.3125-24 UNJF-3A	.1295 .1270	.170 .150	.180 .160	14,600	5,500
12	3/8	.5604 .5554	.545	.3745 .3740	.3745 .3735	.3680 .3640	.008	.0780 .0760	.040 .030	.015	3/64 x 37°	.3750-24 UNJF-3A	.1617 .1582	.200 .180	.217 .197	21,000	7,200
14	7/16	.6680 .6620	.635	.4370 .4365	.4370 .4360	.4310 .4260	.009	.0969 .0944	.050 .040	.022	3/64 x 37°	.4375-20 UNJF-3A	.1930 .1895	.230 .210	.253 .233	28,600	10,000
16	1/2	.7540 .7480	.685	.4995 .4990	.4995 .4985	.4930 .4880	.010	.1068 .1043	.050 .040	.022	3/64 x 37°	.5000-20 UNJF-3A	.2242 .2207	.260 .240	.289 .269	37,300	13,500
18	9/16	.8380 .8310	.770	.5615 .5610	.5615 .5605	.5550 .5500	.010	.1160 .1131	.050 .040	.022	1/16 x 37°	.5625-18 UNJF-3A	.2555 .2520	.290 .270	.326 .306	47,200	17,000
20	5/8	.9250 .9180	.825	.6240 .6235	.6240 .6230	.6180 .6120	.010	.1260 .1230	.050 .040	.022	1/16 x 37°	.6250-18 UNJF-3A	.2555 .2520	.330 .305	.326 .306	58,300	21,000
24	3/4	1.0970 1.0850	1.050	.7490 .7485	.7490 .7480	.7430 .7370	.012	.1460 .1410	.050 .040	.022	1/16 x 37°	.7500-16 UNJF-3A	.3185 .3150	.395 .365	.398 .378	83,900	30,700
28	7/8	1.3197 1.3030	1.210	.8740 .8735	.8740 .8730	.8680 .8610	.014	.1870 .1800	.050 .040	.022	5/64 x 37°	.8750-14 UNJF-3A	.3820 .3780	.455 .425	.471 .451	114,000	42,000
32	1	1.5186 1.4995	1.390	.9990 .9985	.9990 .9980	.9930 .9860	.014	.2180 .2100	.050 .040	.022	5/64 x 37°	1.0000-12 UNJF-3A	.5100 .5040	.580 .550	.618 .598	149,000	55,000

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

DRAWN BY J.F.OBISPO BRIEJ	DATE 2014-07-22 1962-11-26	TITLE HI-LOK™ PIN 100° FLUSH SHEAR HEAD					
APPROVED CESSNA	DATE 1962-11-26	TITANIUM 1/16 GRIP VARIATION					
REVISION 53	DATE K. PHAM 2022-04-04	DRAWING NUMBER  HL11  1 OF 2					

GENERAL NOTES: 1 Head edge out of roundness shall not exceed "F". HL11VNKK()-() = Sulfuric acid anodizing per ISO8080 and HI-KOTE™ 1 NC aluminum pigmented coating 2. Concentricity: Conical surface of head to "D" diameter within ,003 FIM, per Hi-Shear Spec. 294 on threads only, with color silver on thread end, and cetyl alcohol lube 3. Dimensions are in inches and to be met after finish. per Hi-Shear Spec. 305. = HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294 on threads only, with 4. Surface texture per ASME B46.1. HL11VNKL()-() Hole preparation per NAS618. color silver on thread end, and cetyl alcohol lube per Hi-Shear Spec, 305, HL11VHK()-() 6. "H" is dimensioned from maximum "D" diameter. = HI-KOTE™ 4 NC aluminum coating per Hi-Shear Spec. 397. [7] Maximum "D" diameter may be increased by .0002 to allow for solid film or aluminum coating application. 8 Broach petals removed. 9 Dimensions to be met before finish for "VY" code only. SPECIFICATION: HI-LOK™ Product Specification 342. [10] Evidence of broken edge across points. 11 Non-lubed pins must be used with lubed collars or wet sealant. CODE: First dash number indicates nominal diameter in 1/32nds. [12] Curved or flat edge manufacturer's option. Second dash number indicates maximum grip in 1/16ths. See Finish note for explanation of code letters. 13. Use HL111 for oversize replacement, 14 After February, 21st of 2015, HI-KOTE™ 1 aluminum pigmented coating HOW TO ORDER will be replaced by REACH compliant HI-KOTE™ 1 NC aluminum pigmented. **EXAMPLE:** Pin Part Number coating per Hi-Shear Spec. 294 on fasteners coated in UK and European HL11VAP8-8 8/16 or 1/2 Maximum Grip Length MATERIAL: 6AL-4V titanium alloy per AMS4928 or AMS4967. └─ 8/32 or 1/4 Nominal Diameter Pin Finish Code HEAT TREAT: 160,000 psi tensile minimum (95,000 psi shear minimum for sizes up to 3/4; Pin Basic Part Number 90,000 psi shear minimum for 7/8 and larger). = Cetyl alcohol lube per Hi-Shear Spec. 305. **FINISH:** HL11V()-() 14 HL11VAP()-() = HI-KOTE™ 1 or HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294, and cetyl alcohol lube per Hi-Shear Spec. 305. 14 HL11VAZ()-() = HI-KOTE™ 1 or HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294, with color black on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305. HL11VBJ()-() = I.V.D. aluminum coating per MIL-DTL-83488, Type II, Class 3, and cetyl alcohol lube per Hi-Shear Spec. 305. HL11VBR()-() = Color code white on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305. 11 HL11VBU()-() = I.V.D. aluminum coating per MIL-DTL-83488, Type I, Class 3, with color yellow on thread end. 11 HL11VBV()-() = I.V.D. aluminum coating per MIL-DTL-83488, Type II, Class 3, with color blue on thread end. = I.V.D. aluminum coating per MIL-DTL-83488, Type I, Class 3, with color black on thread end, HL11VCB()-() and cetyl alcohol lube per Hi-Shear Spec. 305. 8 HL11VDK()-() = Solid film lube per "KalGard™" FA. "KALGARD" is a trademark of Metal Improvement Company. HL11VF()-() = Anodize per Hi-Shear Spec, 306, Type I, color blue, and cetyl alcohol lube per Hi-Shear Spec, 305, 14 HL11VHA()-() = HI-KOTE™ 1 or HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294, with color black on thread end, and apply Precoat No. PR1436G sealant (.002-.005 thick), and cetyl alcohol lube per Hi-Shear Spec. 305. = Solid film lube per Lubeco 905. 8 HL11VK()-() HL11VLJ()-() = Anodize per Hi-Shear Spec. 306, Type II, and solid film lube per AS5272. = Phosphate fluoride treat and Esna-Lube No. 382 (Everlube Corp). = Anodize per Hi-Shear Spec. 306, Type II, and solid film lube per "Electrofilm" 4396. HL11VLV()-() HL11VR()-() HL11VRÀ()-() HL11VSY()-() Phosphate fluoride treat with color red on thread end and cetyl alcohol lube per Hi-Shear Spec. 305.
 Phosphate fluoride treat, solid film lube per AS5272, Type I, and color red on thread end. = Anodize per Hi-Shear Spec. 306. Type I. color pink, and cetyl alcohol lube per Hi-Shear HL11VT()-() Spec. 305. = Anodize Ti-Shield III and HI-KOTE™ 2 solid film lube per Hi-Shear Spec. 292, and cetyl alcohol HL11VTA()-() lube per Hi-Shear Spec. 305. HL11VTB()-() = HI-KOTE™ 2 solid film lube per Hi-Shear Spec. 292, and cetyl alcohol lube per Hi-Shear Spec. 305. = HI-KOTE™ 2 solid film lube per Hi-Shear Spec. 292. HL11VTF()-() HL11VTL()-() = Anodize Ti-Shield III, solid film lube per DAG-258, and cetyl alcohol lube per Hi-Shear Spec. 305; or anodize per Tiodize Type II, solid film lube per TI-O-LUBE TAL-58, and cetyl alcohol lube per Hi-Shear Spec. 305. HL11VTT()-() HL11VUE()-() = Translube. = Anodize per Hi-Shear Spec. 306, Type II, and cetyl alcohol lube per Hi-Shear Spec. 305. HL11VUU()-() = Anodize per Hi-Shear Spec. 306, Type II, and solid film lube per "Lubeco" 2123, Type II. = Solid film lube per "Lubeco" 2123, Type II. HL11VV()-() 9 HL11VY()-() = Anodize per Hi-Shear Spec. 306, Type I, color blue, and solid film lubricant per MP1050.

(British Aircraft Corporation Spec. MP1071).

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

HL11VNKJ()-() = HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294, with color silver on thread

HL11