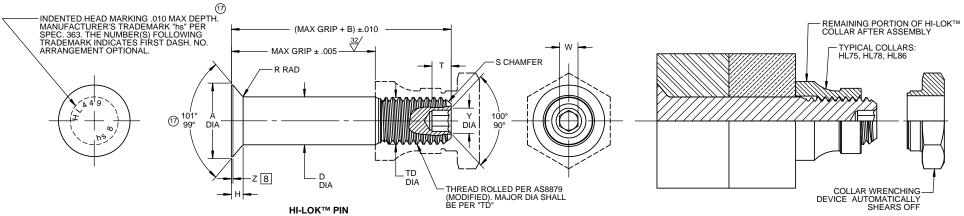
(17)

CAGE No. 73197

For the current list of licensed manufacturers, please visit the LISI AEROSPACE website at:

HTTP://WWW.LISI-AEROSPACE.COM/LICENSES



					9		1		17)	8							
FIDOT	DIN			DI	DIA						s		SOCKET		DOUBLE	TENSION	
FIRST DASH NO.	PIN NOM DIA	<b>A</b> DIA	<b>B</b> REF	WITHOUT COATING OR PLATING	OR	<b>TD</b> DIA	F	н	<b>R</b> RAD	<b>Z</b> MAX	CHAMFER REF	THREAD MODIFIED	<b>W</b> HEX	<b>T</b> DEPTH	<b>Y</b> DIA	SHEAR POUNDS MINIMUM	POUNDS MINIMUM
5	5/32	.3304 .3256	.312	.1635 .1630	.1635 .1625	.1595 .1570	.004	.0700 .0680	.025 .015	.015	1/32 x 45°	.1640-32 UNJC-3A	.0801 .0791	.135 .115	5	4,010	2,180
6	3/16	.3813 .3765	.325	.1895 .1890	.1895 .1885	.1840 .1810	.005	.0805 .0785	.030 .020	.015	1/32 x 45°	.1900-32 UNJF-3A	.0806 .0791	.135 .115	.119 .104	5,380	3,180
8	1/4	.5066 .5018	.395	.2495 .2490	.2495 .2485	.2440 .2410	.006	.1080 .1060	.030 .020	.015	1/32 x 45°	.2500-28 UNJF-3A	.0967 .0947	.150 .130	.142 .122	9,300	5,820
10	5/16	.6335 .6287	.500	.3120 .3115	.3120 .3110	.3060 .3020	.007	.1350 .1330	.040 .030	.015	3/64 x 45°	.3125-24 UNJF-3A	.1295 .1270	.170 .150	.180 .160	14,600	9,200
12	3/8	.7604 .7556	.545	.3745 .3740	.3745 .3735	.3680 .3640	.008	.1620 .1600	.040 .030	.015	3/64 x 45°	.3750-24 UNJF-3A	.1617 .1582	.200 .180	.217 .197	21,000	14,000
14	7/16	.8884 .8812	.635	.4370 .4365	.4370 .4360	.4310 .4260	.009	.1895 .1865	.050 .040	.022	3/64 x 45°	.4375-20 UNJF-3A	.1930 .1895	.230 .210	.253 .233	28,600	18,900
16	1/2	1.0139 1.0068	.685	.4995 .4990	.4995 .4985	.4930 .4880	.010	.2160 .2130	.050 .040	.022	3/64 x 45°	.5000-20 UNJF-3A	.2242 .2207	.260 .240	.289 .269	37,300	25,600
18	9/16	1.1408 1.1337	.770	.5615 .5610	.5615 .5605	.5550 .5500	.010	.2430 .2410	.050 .040	.025	1/16 x 45°	.5625-18 UNJF-3A	.2555 .2520	.290 .270	.326 .306	47,200	32,400
20	5/8	1.2723 1.2651	.825	.6240 .6235	.6240 .6230	.6180 .6120	.010	.2720 .2690	.050 .040	.025	1/16 x 45°	.6250-18 UNJF-3A	.2555 .2520	.330 .305	.326 .306	58,300	41,000
24	3/4	1.5308 1.5236	1.050	.7490 .7485	.7490 .7480	.7430 .7370	.012	.3280 .3250	.050 .040	.025	1/16 x 45°	.7500-16 UNJF-3A	.3185 .3150	.395 .365	.398 .378	83,900	59,500

## HI-LOK™ PIN AND COLLAR AFTER ASSEMBLY

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

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

DRAWN BY	DATE	TITLE						
BRIEJ	1963-04-01	HI-LOK™ PIN						
	1000 04 01	100° FLUSH MS24694 TENSIO	ON HEAD					
APPROVED	DATE	A-286 HIGH TEMPERATURE ALLOY						
M.E.C.	1963-04-01							
		1/16 GRIP VARIATION	1					
REVISION	DATE	DRAWING NUMBER						
17	M.BEARD	HL449						
	2017-07-31	ПL449	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.

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

5 Evidence of broken edge across point.

(17) 6. Surface texture per ASME B46.1.

7. Hole preparation per NAS618.

8 Curved or flat edge manufacturer's option.

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

10 Non-lubed pin must be used with wet sealant or with lubed collars.

11. Use HL453 for oversize replacement.

12 After February, 21st of 2015, HI-KOTE™ 1 aluminum pigmented coating per Hi-Shear Spec. 294 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 AMS5737 or AMS5731.

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

FINISH: HL449-()-() = Cadmium plate per AMS-QQ-P-416. Type II. Class 2, with color

blue on top of head and cetyl alcohol lube per Hi-Shear Spec. 305.

12 HL449AP()-() = HI-KOTE™ 1 aluminum coating per Hi-Shear Spec. 294 and cetyl alcohol lube per Hi-Shear Spec. 305.

12 HL449AZ()-() = HI-KOTE™ 1 aluminum coating per Hi-Shear Spec. 294, with color black

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

HL449EL()-() = Solid film lube per "Electrofilm" 4396. HL449N()-() = Cadmium plate per AMS-QQ-P-416, Type II, Class 2., without

lubricant. (For use in LOX systems.)

HL449UC()-() = Cadmium plate per AMS-QQ-P-416, Type II, Class 2., with color green on thread end and cetyl alcohol lube per Hi-Shear Spec. 305.

10 HL449PY()-() = Passivate per Hi-Shear Spec. 258.

HL449PZ()-() = Passivate per Hi-Shear Spec. 258 and cetyl alcohol lube per

Hi-Shear Spec. 305.

**SPECIFICATION:** HI-LOK™ HI-TIGUE™ Product Specification 342.

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

(17) EXAMPLE: Pin Part Number HL449AP8-8

> 8/16 or 1/2 Maximum Grip Length ─ 8/32 or 1/4 Nominal Diameter Pin

- Finish Code Pin Basic Part Number