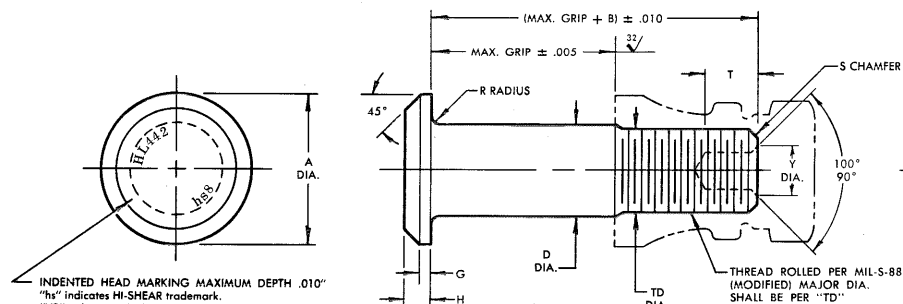


STANDARDS COMMITTEE FOR HI-LOK® PRODUCTS

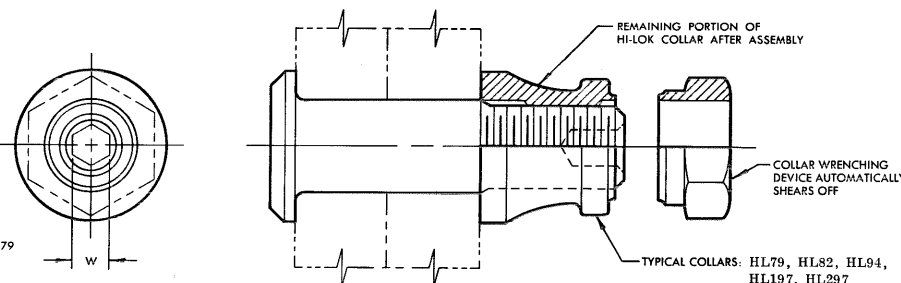
2600 SKYPARK DRIVE, TORRANCE, CALIFORNIA 90509

① HI-SHEAR CORPORATION, U.S.A. (Patent Holder) U.S. Federal Code No. 73197	HI-SHEAR FASTENERS EUROPE, LTD., U.K. (Licensee)
AIR INDUSTRIES CO., INC. (Licensee - U.S. & Canada) U.S. Federal Code No. 68725	Division of Hi-Shear Industries Inc., U.S.A.
DEUTSCH FASTENER CO., INC. (Licensee) U.S. Federal Code No. 97922	KAMAX-WERKE, Germany (Licensee - EEC Countries)
SPS TECHNOLOGIES, U.S.A. (Licensee) U.S. Federal Code No. 56570	Rudolph Kellerman GmbH & Co.
VOI-SHAN, Division of VSI Corp., U.S.A. (Licensee) U.S. Federal Code No. 22215	ST. CHAMOND GRAMAT, S.A. France (Licensee - EEC Countries)
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	Pin & Steel Collars (Licensee - Japan)
	TOKYO SCREW COMPANY, Japan



INDENTED HEAD MARKING MAXIMUM DEPTH .010"
"hs" indicates HI-SHEAR trademark.
"VS" indicates VOI-SHAN trademark.
"SPS" indicates STANDARD PRESSED STEEL trademark.
The number(s) following the trademark indicate first dash number. Arrangement optional.

HI-LOK PIN



HI-LOK PIN AND COLLAR AFTER ASSEMBLY

*															
FIRST DASH NO.	NOM. DIA.	A DIA.	B REF.	D DIA.	TD DIA.	G REF.	H	R RAD.	S CHAMFER REF.	THREAD	SOCKET			DOUBLE SHEAR POUNDS MINIMUM	TENSION POUNDS MINIMUM
											W HEX.	T DEPTH	Y DIA.		
-5	3/16			NOTE: Use HL440-6											
-6	13/64	.315 295	.325	.2026 2016	.1840 1810	.025	.055 .045	.025 .015	1/32" x 45°	10-32UNJF-3A Modified	.0806 .0791	.135 .115	.119 .104	6,130	2,500
-8	17/64	.412 387	.395	.2651 2641	.2440 2410	.030	.069 .059	.025 .015	1/32" x 45°	1/4-28UNJF-3A Modified	.0967 .0947	.150 .130	.142 .122	10,490	4,300
-10	21/64	.505 475	.500	.3276 3266	.3060 3020	.035	.078 .068	.030 .020	3/64" x 45°	5/16-24UNJF-3A Modified	.1295 .1270	.170 .150	.180 .160	16,000	6,300
-12	25/64	.600 565	.545	.3901 3891	.3680 3640	.040	.088 .078	.030 .020	3/64" x 45°	3/8-24UNJF-3A Modified	.1617 .1582	.200 .180	.217 .197	22,700	8,700
-14	29/64	.676 641	.635	.4526 4516	.4310 4260	.045	.105 .093	.030 .020	3/64" x 45°	7/16-20UNJF-3A Modified	.1930 .1895	.230 .210	.253 .233	30,600	12,100
-16	33/64	.770 735	.685	.5151 5141	.4930 4880	.050	.115 .103	.030 .020	3/64" x 45°	1/2-20UNJF-3A Modified	.2242 .2207	.260 .240	.289 .269	39,600	15,300
-18	37/64	.864 829	.770	.5771 5761	.5550 5500	.055	.127 .112	.040 .025	1/16" x 45°	9/16-18UNJF-3A Modified	.2555 .2520	.290 .270	.326 .306	49,700	19,000
-20	41/64	.953 918	.825	.6396 6386	.6180 6120	.060	.137 .122	.040 .025	1/16" x 45°	5/8-18UNJF-3A Modified	.2555 .2520	.330 .305	.326 .306	61,000	23,000
-24	49/64	1.108 1.066	1.050	.7646 7636	.7430 7370	.070	.151 .136	.045 .030	1/16" x 45°	3/4-16UNJF-3A Modified	.3185 .3150	.395 .365	.398 .378	87,200	30,700

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.

- GENERAL NOTES:**
1. Concentricity: Head to "D" diameter within .010 FIR.
 2. Dimensions to be met after finish.
 3. Surface texture per ANSI B46.1.
 4. Hole preparation per NAS618.
 5. Use HL240 for oversize replacement.

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

HEAT TREAT: 95,000 psi shear minimum at 70°F.

FINISH:

HL442-()-() = Cadmium plate per Spec. QQ-P-416, Type II, Class 2, color code blue (HINAC Process) top of head only, and cetyl alcohol lube per Hi-Shear Spec. 305.

HL442AP-()-() = Hi-Kote 1 aluminum coating per Hi-Shear Spec. 294, and cetyl alcohol lube per Hi-Shear Spec. 305.

HL442AZ-()-() = Hi-Kote 1 aluminum coating per Hi-Shear Spec. 294, with color code black on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.

HL442N-()-() = Cadmium plate per Spec. QQ-P-416, Type II, Class 2, without lubricant (For use in LOX systems).

HL442UC-()-() = Cadmium plate per Spec. QQ-P-416, Type II, Class 2, with color code green on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.

SPECIFICATION: Hi-Lok Product Specification 342.

HOW TO ORDER EXAMPLES:

Pin Part Number Only
HL442N-8-8

8/16 or 1/2 Maximum Grip Length
Replaces 8/32 or 1/4 Nominal Diameter Pin
Type II Cadmium Plate Without Lube
Pin Part Number

Pin and Collar Assembly Part Number Combination
HL442N94-8-8

Size and grip length, see above example
Collar Part Number
Pin Finish
Pin Part Number

"Hi-Lok" and "HL" are internationally registered trademarks of Hi-Shear Corporation

DRAWN DATE		TITLE	
D.M.B.	12-6-62	HI-LOK®PIN	
APPROVED DATE		PROTRUDING SHEAR HEAD	
Cessna		A-286 HIGH TEMPERATURE ALLOY	
REVISION		1/16" GRIP VARIATION - 1/64" OVERSIZE	
9		PLATED	
DATE		DRAWING NUMBER	
D.P.S.		HL442	
9-9-92			

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HL442