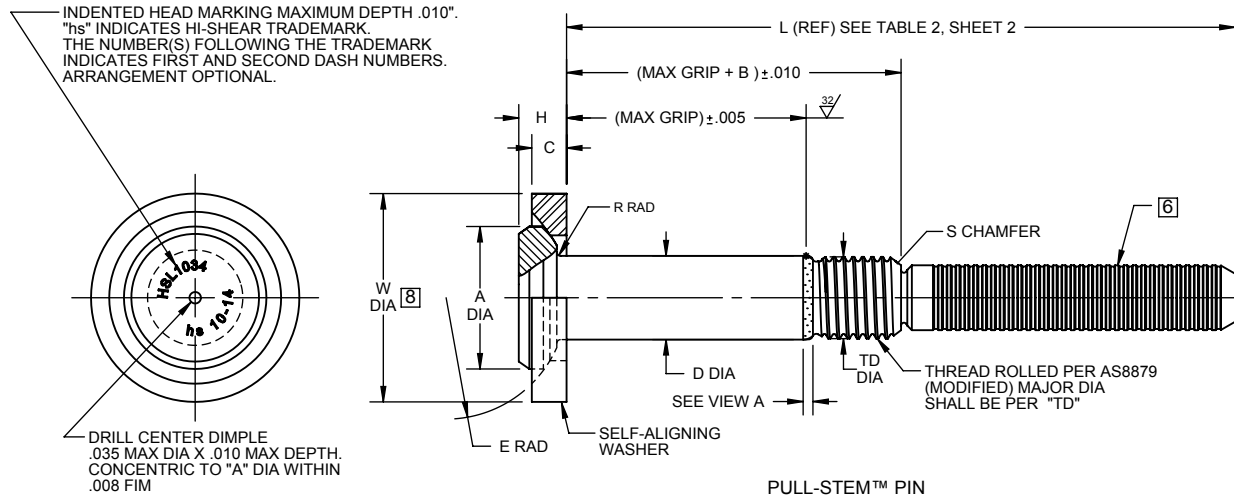
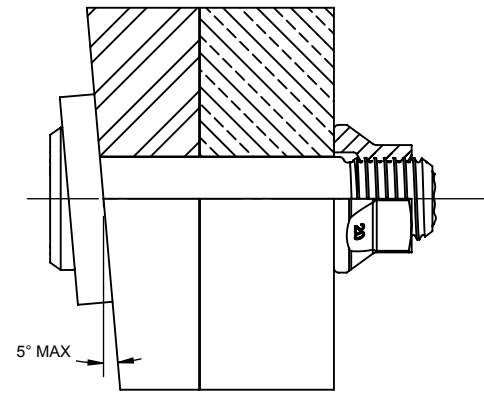


①



PULL-STEM™ PIN



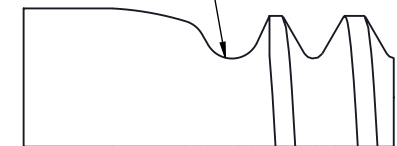
PULL-STEM™ PIN AND NUT/COLLAR AFTER ASSEMBLY

TABLE 1 [8] ①

FIRST DASH NO.	PIN NOM DIA	A DIA REF	B REF	C MAX	D DIA	TD DIA	W DIA		H MAX	R RAD	E RAD REF	S CHAMFER REF	THREAD MODIFIED	DOUBLE SHEAR POUNDS MINIMUM	TENSION POUNDS MINIMUM	TENSION- TENSION FATIGUE POUNDS MAX
							CODE NAT MAX	CODE NATB MAX								
8	9/32	.477	.330	.110	.2807 .2797	.2440 .2410	.571	[9]	.159	.025 .015	.377	1/32 x 45°	.2500-28 UNJF-3A	15,500	7,750	2,800
10	11/32	.567	.390	.127	.3432 .3422	.3060 .3020	.712	.668	.191	.030 .020	.440	3/64 x 45°	.3125-24 UNJF-3A	23,200	12,605	4,420
12	13/32	.656	.430	.145	.4057 .4047	.3680 .3640	.847	.764	.238	.030 .020	.502	3/64 x 45°	.3750-24 UNJF-3A	32,400	19,176	6,840
14	15/32	.746	.495	.162	.4682 .4672	.4310 .4260	.986	.894	.269	.030 .020	.565	3/64 x 45°	.4375-20 UNJF-3A	43,100	25,815	9,270
16	17/32	.835	.535	.181	.5307 .5297	.4930 .4880	1.193	1.062	.307	.030 .020	.627	3/64 x 45°	.5000-20 UNJF-3A	55,400	34,300	12,300

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

THIS AREA OF SPECIAL CONFIGURATION
AND COLD WORKING TO MEET PHYSICAL
REQUIREMENTS.



VIEW A
HI-LITE™ THREAD TRANSITION AREA.
SEE SPECIFICATION FOR INSPECTION

- GENERAL NOTES:**
1. Concentricity: "A" to "D" diameter within .010 FIM.
 2. Dimensions in inches and to be met after finish.
 - ③ 3. Surface texture per ASME B46.1.
 4. Hole preparation per HSL/HPL-IS01: PULL-STEM™ / PULL-IN™ fastener installation specification for HSL/HPL pins.
 5. HSL1034 is the oversize replacement for HSL1024.
 - [6] Coating and lube not mandatory on pintail.
 7. Product in accordance with LISI AEROSPACE Product Specification N°415.
 - [8] Washer external diameter values vary according to material:
Code NAT (Titanium) and Code NATB (Inconel).
 - ① [9] Code NATB is not available for smaller diameter washers.

"HI-KOTE", "HI-LITE", "PULL-STEM" AND "HSL",
ARE TRADEMARKS OF HI-SHEAR CORPORATION

DRAWN BY F.CARINGELLA	DATE 2016-02-17	TITLE PULL-STEM™ PIN SELF-ALIGNING TENSION HEAD BREAK STEM, INTERFERENCE FIT NICKEL BASE ALLOY (INCONEL 718) 1/16 GRIP VARIATION, 1/32 OVERSIZE
APPROVED C.REITZ	DATE 2016-02-17	
REVISION 1	DATE F.CARINGELLA 2017-10-27	
DRAWING NUMBER HSL1034		1 OF 2

FINISH TABLE

Part	Finish, Lube, ID Code	Finish	Lube	Identification
Inconel Pin	NAP	HI-KOTE™ 1 NC Aluminum Pigmented Coating per HI-Shear Spec. 294	Cetyl alcohol lube per HI-Shear Spec. 305	None
Titanium Washer	NAT	HI-KOTE™ 1 NC Aluminum Pigmented Coating per HI-Shear Spec. 294	None	None
Inconel Washer	NATB	HI-KOTE™ 1 NC Aluminum Pigmented Coating per HI-Shear Spec. 294	None	Blue spot on outside diameter

MATERIAL: Pin = Nickel base alloy (Inconel 718) per AMS5662 or AMS5962.

Washer = Nickel base alloy (Inconel 718) per AMS5662 or AMS5962, code NATB.

Washer = Titanium alloy 6Al-4V per AMS4928 or AMS4967, code NAT.

HEAT TREAT: Pin = Nickel base alloy (Inconel 718) 220,000 psi tensile minimum and 125,000 psi shear minimum.

Washer (Titanium alloy 6Al-4V) = 160,000 psi tensile minimum and 95,000 psi shear minimum.

Washer (Nickel base alloy, Inconel 718) = 220,000 psi tensile minimum and 125,000 psi shear minimum.

CODE: First dash number indicates nominal diameter in 1/32nds of the pin which HSL1034 oversize pin replaces.
 Second dash number indicates maximum grip in 1/16ths.
 See "Finish" note for explanation of code letters.

HOW TO ORDER Pin-Washer Assembly Part Number

① **EXAMPLE:** HSL1034 NAP 10 NATB 14

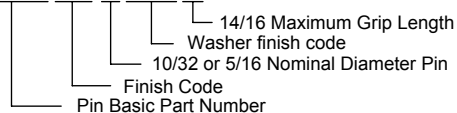


TABLE 2

SECOND DASH NUMBER	L REF				
	-8 DIA	-10 DIA	-12 DIA	-14 DIA	-16 DIA
1	-	-	-	-	-
2	1.000	-	-	-	-
3	1.125	1.250	-	-	-
4	1.250	1.375	1.375	-	-
5	1.375	1.500	1.500	1.625	-
6	1.500	1.625	1.625	1.750	1.750
7	1.625	1.750	1.750	1.875	1.875
8	1.750	1.875	1.875	2.000	2.000
9	1.875	2.000	2.000	2.125	2.125
10	2.000	2.125	2.125	2.250	2.250
11	2.125	2.250	2.250	2.375	2.375
12	2.250	2.375	2.375	2.500	2.500
13	2.375	2.500	2.500	2.625	2.625
14	2.500	2.625	2.625	2.750	2.750
15	2.625	2.750	2.750	2.875	2.875
16	2.750	2.875	2.875	3.000	3.000
17	2.875	3.000	3.000	3.125	3.125
18	3.000	3.125	3.125	3.250	3.250
19	3.125	3.250	3.250	3.375	3.375
20	3.250	3.375	3.375	3.500	3.500
21	3.375	3.500	3.500	3.625	3.625
22	3.500	3.625	3.625	3.750	3.750
23	3.625	3.750	3.750	3.875	3.875
24	3.750	3.875	3.875	4.000	4.000
25	-	4.000	4.000	4.125	4.125
26	-	4.125	4.125	4.250	4.250
27	-	4.250	4.250	4.375	4.375
28	-	4.375	4.375	4.500	4.500
29	-	-	4.500	4.625	4.625
30	-	-	4.625	4.750	4.750
31	-	-	4.750	4.875	4.875
32	-	-	4.875	5.000	5.000
33	-	-	5.000	5.125	5.125
34	-	-	5.125	5.250	5.250
35	-	-	5.250	5.375	5.375
36	-	-	5.375	5.500	5.500
37	-	-	5.500	5.625	5.625
38	-	-	5.625	5.750	5.750
39	-	-	5.750	5.875	5.875
40	-	-	5.875	6.000	6.000
41	-	-	6.000	6.125	6.125
42	-	-	6.125	6.250	6.250
43	-	-	6.250	6.375	6.375
44	-	-	6.375	6.500	6.500

DRAWING NUMBER

HSL1034

2 OF 2