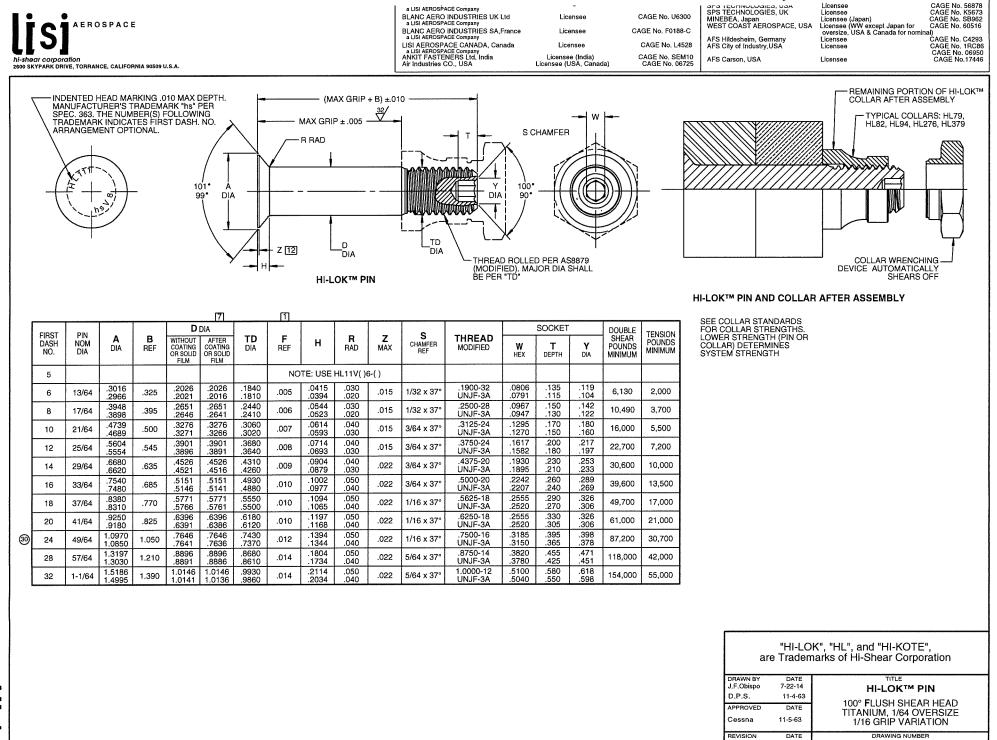
## LISI AEROSPACE – Please refer to Central Documentation Website to check validity



(30)

J.F.O.

**HL111** 

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HL111

	it of roundpass shall not avoard "E"	SPECIFICATION:	HI-LOK™ Product Specification 342.		
GENERAL NOTES: 1 Head edge out of roundness shall not exceed "F". 2. Concentricity: Conical surface of head to "D" diameter within .003 FIM.		CODE	CODE: First dash number indicates nominal diameter in 1/32nds of the		
<ol> <li>Dimensions to be met after finish.</li> <li>Surface texture per ANSI B46.1.</li> </ol>		CODE.	pin which HL111 oversize pin replace	es.	
5. Hole preparat	ion per NAS618.		Second dash number indicates maximum See Finish note for explanation of co		
	oned from maximum "D" diameter. diameter may be increased by .0002 to allow	HOW TO ORDER	· ·		
for solid film or aluminum coating application.		EXAMPLE:			
8 Broach petals removed.			<u>HL111VAP8-8</u>		
Dimensions to be met before finish for "VY" code only. 10. Use HL411 for oversize replacement.			8/16 or 1/2 Maximu		
11 Non-lubed pins must be used with lubed collars or wet sealant.			HI-KOTE™ 1 Aluminum	iameter Pin Coating	
12] Curved or flat edge manufacturer's option.		Pin Basic Part Number	g		
will be replace	, 21st of 2015, HI-KOTE™ 1 aluminum pigmented coating d by REACH compliant HI-KOTE™ 1 NC aluminum pigmented				1
coating per Hi	Shear Spec. 294 on fasteners coated in European Union.				
MATERIAL: 6AL-4V titanium	alloy per AMS4928 or AMS4967.				
HEAT TREAT: 160,000 psi tensile minimum (95,000 psi shear minimum for sizes up to 3/4; 90,000 psi shear minimum for 7/8 and larger).					
<b>FINISH:</b> HL111V()-()	= Cetyl alcohol lube per Hi-Shear Spec. 305.				
13 HL111VAP()-()	= HI-KOTE <sup>™</sup> 1 aluminum pigmented coating per Hi-Shear Spec. 294, an per Hi-Shear Spec. 305.	d cetyl alcohol lube			
13 HL111VAZ()-()	= HI-KOTE™ 1 aluminum pigmented coating per Hi-Shear Spec. 294, wi	th color black on			
thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.					
HL111VBJ()-() = I.V.D. aluminum coating per MIL-DTL-83488, Type II, Class 3, and cetyl alcohol lube per Hi-Shear Spec. 305.					
HL111VBR()-() = Color code white on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305. [11]HL111VBU()-() = I.V.D. aluminum coating per MIL-DTL-83488, Type I, Class 3, with color yellow on thread end.					
11 HL111VB0()-() = I.V.D. aluminum coating per MIL-DTL-83488, Type I, Class 3, with color yellow on thread end. 11 HL111VBV()-() = I.V.D. aluminum coating per MIL-DTL-83488, Type II, Class 3, with color blue on thread end.					
HL111VCB()-() = I.V.D. aluminum coating per MIL-DTL-88488, Type I, Class 3, with color black on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.					
BHL111VDK()-() = Solid film lube per "KalGard™" FA. "KALGARD" is a trademark of Metal Improvement Company. HL111VF()-() = Surface coating per Hi-Shear Spec. 306, Type I, color blue, and cetyl alcohol lube per Hi-Shear Spec. 305.					
[8]HL111VK()-()	= Solid film lube per Lubeco 905.				
HL111VLJ()-()	= Surface coating per Hi-Shear Spec. 306, Type II, and solid film lube per AS5272. = Phosphate fluoride treat and Esna-Lube No. 382 (Everlube Corp).				
HL111VLV()-() HL111VR()-()	= Surface coating per Hi-Shear Spec. 306, Type II, and solid film lube per "Electrofilm" 4396.				
HL111VRÀ()-() HL111VSY()-()	= 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.				
HL111VT()-()	= Surface coating per Hi-Shear Spec. 306, Type I, color pink, and cetyl a	llcohol lube per Hi-Shear			
HL111VTA( )-( )	Spec. 305. = Anodize Ti-Shield III and HI-KOTE™ 2 solid film lube per Hi-Shear Sp	ec. 292, and cetyl alcohol			
HL 111VTB( )-( )	lube per Hi-Shear Spec. 305. = HI-KOTE™ 2 solid film lube per Hi-Shear Spec. 292.				
HL111VTB( )-( ) HL111VTL( )-( )	= Anodize Ti-Shield III, solid film lube per DAG-258, and cetyl alcohol lub	be per Hi-Shear Spec. 305; or			
	anodize per Tiodize Type II, solid film lube per TI-O-LUBE TAL-58, and Hi-Shear Spec. 305.	a cetyl alconol lube per			
HL111VTT()-() HL111VUE()-()	= Translube. = Surface coating per Hi-Shear Spec. 306, Type II, and cetyl alcohol lube	a per Hi-Shear Spec 305			
HL111VUU()-()	= Surface coating per Hi-Shear Spec. 306, Type II, and solid film lube per	er "Lubeco" 2123, Type II.			
HL111VV()-()` [9]HL111VY()-()	<ul> <li>= Solid film lube per "Lubeco" 2123, Type II.</li> <li>= Surface coating per Hi-Shear Spec. 306, Type I, color blue, and solid</li> </ul>	film lubricant per M88			
	(British Aircraft Corporation Spec. MP-1071).				
	) = HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294 end, and cetyl alcohol lube per Hi-Shear Spec. 305.				
HL111VNKK( )-(	) = Sulfuric acid anodizing per ISO8080 and HI-KOTE™ 1 NC aluminum p Spec. 294 on threads only, with color silver on thread end, and cetyl alu	bigmented coating per Hi-Shear			
HL111VNKL( )-(	) = HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294	4 on threads only, with color silver			
	on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.				
				DRAWING NUMBER	
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