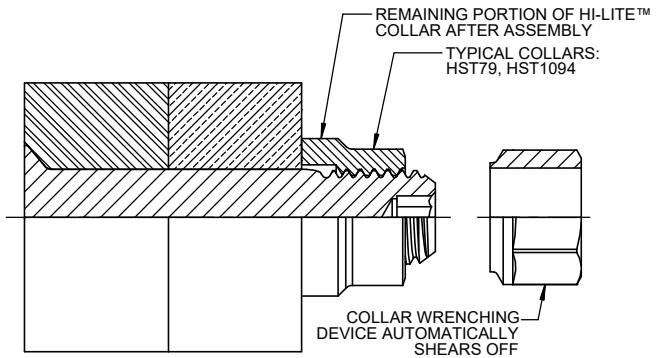


HI-LITE™ PIN

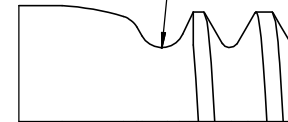


HI-LITE™ PIN AND COLLAR AFTER ASSEMBLY

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

FIRST DASH NO.	PIN NOM DIA	A DIA	B REF	D DIA		TD DIA	F	H	R RAD	Z MAX	S CHAMFER REF	THREAD MODIFIED	SOCKET			DOUBLE SHEAR POUNDS MINIMUM	TENSION POUNDS MINIMUM
				WITHOUT COATING OR SOLID FILM	AFTER COATING OR SOLID FILM								W HEX	T DEPTH	Y DIA		
5	5/32	.2612 .2564	.280	.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	.290	.1895 .1890	.1895 .1885	.1840 .1810	.005	.0470 .0450	.030 .020	.015	1/32 x 37°	.1900-32 UNJF-3A	.0806 .0791	.100 .080	.119 .104	5,380	2,000
8	1/4	.3948 .3898	.320	.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	.380	.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	5,000
12	3/8	.5604 .5554	.420	.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	.485	.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	.525	.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	.600	.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	.660	.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	.895	.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	1.000	.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	107,000	42,000
32	1	1.5186 1.4995	1.160	.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	140,000	55,000

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



VIEW A

HI-LITE™ THREAD TRANSITION AREA
SEE SPECIFICATION FOR INSPECTION

"HI-LITE", "HST", AND "HI-KOTE",
ARE TRADEMARKS OF HI-SHEAR CORPORATION

DRAWN BY J. OBISPO	DATE 1985-08-04	TITLE HI-LITE™ PIN 100° FLUSH SHEAR HEAD TITANIUM 1/16 GRIP VARIATION
APPROVED E. E. BEELES	DATE 1985-08-04	
REVISION 33	DATE K. PHAM 2022-06-20	DRAWING NUMBER HST11

- GENERAL NOTES:**
- 1 Head edge out of roundness shall not exceed "F".
 2. Concentricity: Conical surface of head to "D" diameter within .003 FIM.
 3. "H" is dimensioned from maximum "D" diameter.
 4. Dimensions are in inches and to be met after finish.
 5. Surface texture per ASME B46.1.
 6. Hole preparation per NAS618.
 - 7 Maximum "D" diameter may be increased by .0002 to allow for solid film or aluminum coating application.
 - 8 Curved or flat edge manufacturer's option.
 - 9 Broach petals removed.
 10. Use HST111 for oversize replacement.
 - 11 After February, 21st of 2015, HI-KOTE™ 1 aluminum pigmented coating will be replaced by REACH compliant HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294 on fasteners coated in UK & European Union.
 - 12 After September 30th of 2015, HI-KOTE™ 4 coating per HS397 will be replaced by HI-KOTE™ 4 NC coating per HS397.

MATERIAL: 6AL-4V titanium alloy per AMS4928 or AMS4967.

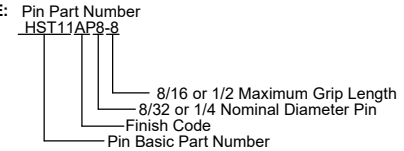
HEAT TREAT: 160,000 psi tensile minimum (95,000 psi shear minimum for sizes up to 3/4;
90,000 psi shear minimum for 7/8 and larger).

- FINISH:**
- HST11(-)(-) = Cetyl alcohol lube per Hi-Shear Spec. 305.
- 33 11 HST11AG(-)(-) = HI-KOTE™ 1 or HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294, with color orange on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.
- 33 11 HST11AP(-)(-) = 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.
- 33 11 HST11AZ(-)(-) = 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.
- HST11BJ(-)(-) = I.V.D. aluminum coating per MIL-DTL-83488, Type II, Class 3, and cetyl alcohol lube per Hi-Shear Spec. 305.
- HST11BL(-)(-) = I.V.D. aluminum coating per MIL-DTL-83488, Type II, Class 3, with color black on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.
- 9 HST11CT(-)(-) = Color orange on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.
- 12 HST11HK(-)(-) = HI-KOTE™ 4 NC aluminum coating per Hi-Shear Spec. 397.
- 33 11 HST11HY(-)(-) = HI-KOTE™ 1 or HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294, with color orange on thread end, and apply Precoat No. PR1436G sealant (.002-.005 thick), and cetyl alcohol lube per Hi-Shear Spec. 305.
- 9 HST11K(-)(-) = Solid film lube per "Lubeco™ 905". "LUBECO" is a trademark of Lubeco Incorporated.
- 33 11 HST11KM(-)(-) = HI-KOTE™ 1 or HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294, with color white on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.
- 9 HST11MA(-)(-) = Solid film lube per "KalGard™ RA". "KALGARD" is a trademark of Metal Improvement Company.
- HST11RP(-)(-) = Phosphate fluoride treat with color orange on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.
- HST11RS(-)(-) = Phosphate fluoride treat, solid film lube per AS5272, Type I, and color orange on thread end.
- HST11SY(-)(-) = Phosphate fluoride treat, solid film lube per AS5272, Type I, and color red on thread end.
- HST11TB(-)(-) = HI-KOTE™ 2 solid film lube per Hi-Shear Spec. 292, and cetyl alcohol lube per Hi-Shear Spec. 305.
- HST11TF(-)(-) = HI-KOTE™ 2 solid film lube per Hi-Shear Spec. 292.
- HST11WF(-)(-) = Anodize per Hi-Shear Spec. 306, Type I, color blue, with color black on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.
- HST11YV(-)(-) = HI-KOTE™ 2 solid film lube per Hi-Shear Spec. 292 on threads only, with color orange on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.
- HST11NKJ(-)(-) = HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294, with color silver on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.
- HST11NKK(-)(-) = Sulfuric acid anodizing per ISO8080 and HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294 on threads only, with color silver on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.
- HST11NKL(-)(-) = HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294 on threads only, with color silver on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.
- 33 11 HST11GD(-)(-) = HI-KOTE™ 1 or HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294 on threads only, cetyl alcohol lube per Hi-Shear Spec. 305.
- 33 11 HST11GM(-)(-) = HI-KOTE™ 1 or HI-KOTE™ 1 NC aluminum coating per Hi-Shear Spec. 294 on threads only and top of head only, cetyl alcohol lube per Hi-Shear Spec. 305, White on thread end.
- HST11NAP(-)(-) = HI-KOTE™ 1 NC aluminum coating per Hi-Shear Spec. 294, cetyl alcohol lube per Hi-Shear Spec. 305.

SPECIFICATION: HI-LITE™ Product Specification 380.

CODE: 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
EXAMPLE:**



DRAWING NUMBER

HST11

2 OF 2