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de HAVILLAND

CAGE CODE 71867

SOURCE CONTROL DRAWING

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REV: N - 10 AUG 2011

REV: M - 03 AUG 2011

REV: L - 22 JUL 2011

2008

- 15 AUG

REV: K

REV: J - 21 FEB 2007

P -09 NOV 2012

REV:

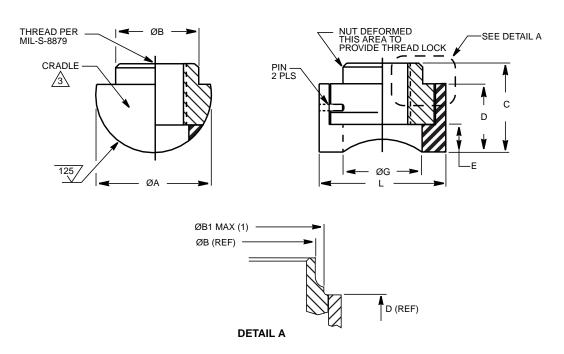
JAN 1982

SOURCE CONTROL DRAWING

THIS STANDARD IS INACTIVE FOR NEW PARTS - EFFECTIVE AS OF DECEMBER 31, 2012.

(P) NEW PARTS SHALL BE PROCURED PER "B0203072" AND "B0203073" AS APPLICABLE.

IN-HOUSE AND SUB-CONTRACT PARTS MANUFACTURED TO DSC228 UP TO REVISION "N" ARE ACCEPTABLE.



	PART No.	THREAD (UNJF-3B)	Ø A +.000 003	Ø B (REF)	Ø B ₁ MAX (1)	C MAX	D +.000 010	E ±.005	Ø G +.011 000	L ±.010	AXIAL TENSILE STRENGTH	APPROX WEIGHT LB/100
	DSC228-4	.2500-28	.528	.375	.423	.406	.320	.125	.281	.625	8530	1.70
	DSC228-5	.3125-24	.590	.406	.470	.468	.360	.125	.344	.688	13500	2.25
	DSC228-6	.3750-24	.684	.500	.564	.531	.420	.156	.406	.750	20400	3.30
	DSC228-7	.4375-20	.778	.563	.642	.625	.470	.188	.469	.875	27600	5.19
Г	DSC228-8	.5000-20	.872	.625	.720	.703	.540	.219	.531	1.000	36840	7.57
	DSC228-9	.5625-18	.965	.688	.813	.765	.590	.250	.594	1.094	46680	10.80
	DSC228-10	.6250-18	1.060	.750	.908	.844	.650	.281	.656	1.125	58400	11.95
	DSC228-12	.7500-16	1.278	.875	1.111	1.062	.750	.344	.781	1.500	84900	21.33
	DSC228-14 (2)	.8750-14	1.433	1.000	1.204	1.156	.850	.375	.906	1.531	115920	28.02
4	DSC228-16 (2)	1.0000-12	1.559	1.125	1.423	1.281	.880	.375	1.032	1.728	143000	34.26
	DSC228-18	1.1250-12	1.872	1.250	1.720	1.562	1.230	.438	1.156	2.063	193200	78.00

- (1) MAX DIAMETER OF NUT ABOVE SHOULDER OF CRADLE
- (2) DSC228-14 & DSC228-16 SHALL NOT BE MADE TO DSC 228 USE B0203072 STANDARD FOR SIZE 16 ONLY

LIST OF CURRENT SHEETS						
SHEET	1	2	3			
REVISION	Р	E	F			

SEE ENGINEERING STANDARDS APPROVAL RECORD FOR ORIGINAL SIGNATURES AND CHANGE SUMMARY

DRAWN	B. McDONALD			: 27
CHECKED	P. LAM	NUT, SELF-LOCKING, BARREL,		VED
STRESS	S. CHENG	FLOATING, 220 KSI		PRO
APPROVED	S. HAMID		PAGE 1 OF 3	API

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C - 03 AUG 2011

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SOURCE CONTROL DRAWING

SOURCE CONTROL DRAWING

(E) MATERIAL: NUT & CRADLE - ALLOY STEEL PER AMS 6304 OR AMS 6322 OR AMS 6414, NO ALTERNATIVE

ALLOWED.

PIN - 300 SERIES CRES OR CARBON STEEL

E FINISH: NUT - CADMIUM PLATE PER AMS2401 OR NAS672 WITH A 23 HOUR BAKE PLUS MOLYBDENUM

DISUPHIDE DRY FILM LUBRICANT

-- OR --

VACUUM DEPOSITED CADMIUM PLATE PER AMS-C-8837. TYPE II. CLASS 2 PLUS

MOLYBDENUM DISULPHIDE DRY FILM LUBRICANT

-- OR -

ION VAPOUR DEPOSITED ALUMINUM COATING PER MIL-C-83488 CL3, TY II PLUS

MOLYBDENUM DISULPHIDE DRY FILM LUBRICANT

CRADLE - CADMIUM PLATE PER AMS2401 OR NAS672, WITH A 23 HOUR BAKE. POST PLATE

CHROMATE TREATMENT OPTIONAL.

-- OR --

VACUUM DEPOSITED CADMIUM PLATE PER AMS-C-8837, TYPE II, CLASS 2

PIN - CRES - PASSIVATE PER QQ-P-35

CARBON STEEL - CADMIUM PLATE PER QQ-P-416. TYPE I. CLASS 2

(E) HARDNESS: NUT & CRADLE - 38 TO 44 Rc

FI OAT-.028 MINIMUM ACROSS BARREL

PERFORMANCE: TO MIL-DTL-25027 EXCEPT THAT THE MINIMUM AXIAL TENSILE STRENGTH IS BASED ON MIL-

B-7838 WITH VALUES INCREASED TO 220,000 PSI

NOTES:

MAGNETIC PARTICLE INSPECT EACH NUT INDIVIDUALLY TO MIL-I-6868 OR ASTM E 1444. EACH NUT TO BE MARKED WITH A DOT OF CONTRASTING COLOUR UPON INSPECTION.

PROCUREMENT SHALL SPECIFY THE DSC AND THE VENDOR PART NUMBER ON THE PURCHASE ORDER. PERMANENT MARK MANUFACTURER'S I.D., PART NUMBER AND ASSEMBLY LOT NUMBER IN THIS AREA. A CLEAR COATING MUST BE APPLIED OVER THE PART MARKING IF IT IS PERFORMED AFTER CADMIUM PLATING.

CLEAR COAT USING EITHER DEFT CLEAR GLOSS 03-X-85 PER MIL-PRF-85285 OR AKZONOBLE CLEAR POLYURETHANE TOPCOAT PER MIL-C-83286.

- CERTIFICATE OF COMPLIANCE MUST ACCOMPANY EACH LOT AT RECEIVING, TO ENSURE COMPLETE COMPLIANCE WITH THIS STANDARD.
- 5. USE NAS578 TYPE A - INDEXING TYPE RETAINERS WITH BARREL NUTS TO THIS STANDARD.
- € 6. DEVIATION FROM ANY ITEMS LISTED IN THIS STANDARD SHOULD BE RAISED FOR APPROVAL BY ENGINEERING.

STRESS DURABILITY:

- 1. EACH LOT OF NUTS SUPPLIED TO THIS STANDARD SHALL BE TESTED IN ACCORDANCE WITH MIL-STD-1312-14, USING THE EXTENSION METHOD, TO INDUCE A STRESS IN THE NUT EQUAL TO 80% OF THE AXIAL TENSILE STRENGTH
- 2. THE NUT SHALL BE HELD UNDER STRESS IN THE TEST FIXTURE FOR A MINIMUM OF 96 HOURS AT ROOM TEMPERATURE.
- SUBSEQUENT TO STRESS LOADING, THE TEST FASTENER SHALL BE DISASSEMBLED AND EXAMINED FOR THE PRESENCE OF CRACKS USING 10X MAGNIFICATION, MAGNETIC PARTICLE, OR FLOURESCENT PENETRANT INSPECTION. THE DEVELOPMENT OF CRACKS OR THE FAILURE OF THE TEST FASTENER BY FRACTURE CONSTITUTES FAILURE.
- 4. THE SAMPLING SIZE FOR EACH LOT SHALL BE 5 ITEMS, AND THE ACCEPTANCE NUMBER SHALL BE ZERO (0) FAILURES.

SI	SEE ENGINEERING STANDARDS APPROVAL RECORD FOR ORIGINAL SIGNATURES AND CHANGE SUMMARY								
DRAWN	DRAWN B. McDONALD	DSC 228	05						
CHECKED	P. LAM	NUT, SELF-LOCKING, BARREL, FLOATING, 220 KSI	DSC 220	 					
STRESS	S. CHENG		DA O.F. 0	Š					
APPROVED	S. HAMID		PAGE 2	AP					

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2012

F - 09 NOV

REV: I

REV: E - 10 AUG 2011

REV: D - 03 AUG 2011

FEB 2007

C-21

REV:

REV: B - 06 FEB 2007

REV: A - 12 MAY 2000

SOURCE CONTROL DRAWING

SOURCE CONTROL DRAWING -

	APPROVED VENDORS								
	PART No.	SHUR-LOK®	VOI-SHAN	ESNA	SPS	KAYNAR 🕞			
	DSC228-4	SL4171-4	VN1617A048 /	113LH7940-048 /	95931M-428	K50642-4F			
	DSC228-5	SL4171-5	VN1617A054	113LH7940-054	95931M-524	K50642-5F			
	DSC228-6	SL4171-6	WN1617A064	1\3LH7940-064	95931M-624	K50642-6F			
	DSC228-7	SL4171-7	VN1617AØ70	113LH7940-070	95931M-720	K\$0642-7F			
	DSC228-8	SL4171-8	VN1617A080	113LN7940-080	95931M-820	K50642-8F			
	DSC228-9	SL4171-9	VN1677A098	113LH7940-098	95931M-918	K506 2-9F			
	DSC228-10	SL4171-10	VN1617A108	113LH7940-108	95931M-1018	K50642-10F			
	DSC228-12	SL4171-12	VN1617A 26	113LH7940-126	95931M-1216	K50642-12F			
(F)	DSC228-14	SL4171-14	VN1617A144	1 / 3LH7940-144	95931M-1414	K50642-14F			
	DSC228-16	SL4171-16	VN1617A162	113LH7940-162	95931M-1612	K50642-1612F			
	DSC228-18	SL4171-18	VN1617A182 \	113LH7940-182	95931M-1812	K50642-18F			
	><	INACTIVE FOR I	NEW PROCUREME	ENT					

PROCUREMENT REQUIREMENTS:

SPS TECHNOLOGIES BARREL NUTS MANUFACTURED PRIOR TO JANUARY 1, 2000 ARE NOT ACCEPTABLE FOR PROCUREMENT OR USAGE.

(F) APPROVED VENDORS ADDRESSES AND CAGE CODES:

SHUR-LOK COMPANY SPS FASTENER DIV.

2541 WHITE RD.

IRVIN CA 92614

USA CAGE CODE: 97393

SPS TECHNOLOGIES

301 HIGHLAND AVE.

JENKINTOWN PA 19046

USA CAGE CODE: 56878

ALCOA GLOBAL FASTENERS INC.

DBA KAYNAR

800 STATE COLLEGE BLVD. SOUTH

VEI	800 STAT FULLER USA	TE COLLEGE BLVD. TON CA 92834 CAGE COD						
	SEE ENGINEERING STANDARDS APPROVAL RECORD FOR ORIGINAL SIGNATURES AND CHANGE SUMMARY							
	DRAWN B. McDONALD			DSC 228	. 25			
	CHECKED	P. LAM	NUT, SELF-LOCKING, BARREL,	DSC 220	 -			
	STRESS	S. CHENG	FLOATING, 220 KSI	DA O.E. O.	Š			
	APPROVED	PROVED S. HAMID	PAGE 3	APF				