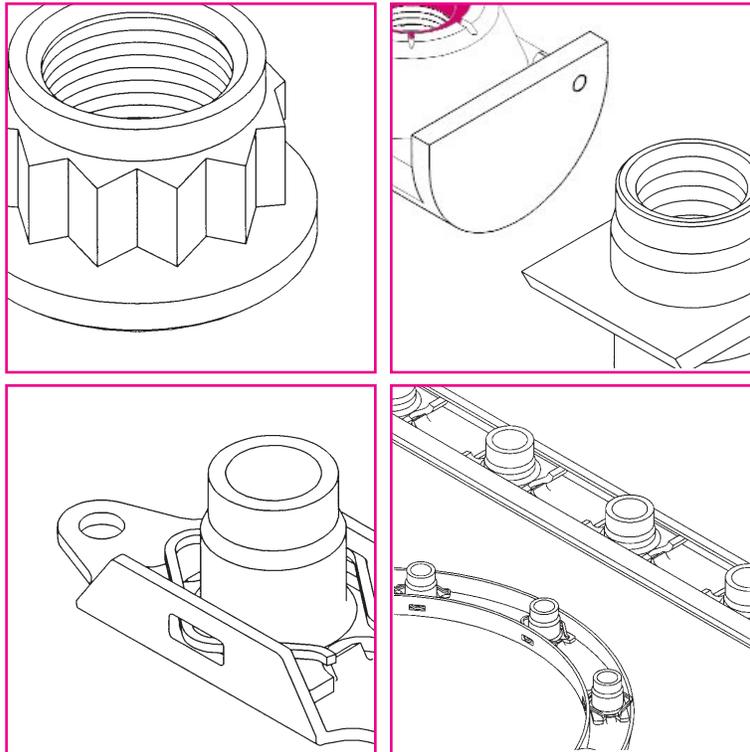


# ESNA<sup>®</sup>

SPS Technologies  
ESNA<sup>®</sup> Products

## Aircraft & Aerospace Fastener Selector Guide

Wrenchable Nuts • Anchor Nuts Gang  
Channel Nuts • Barrel Nuts • Shank Nuts



**SPS<sup>®</sup>**  
TECHNOLOGIES

# SPS & ESNA

## Aerospace locknuts for virtually every requirement.

Since 1903, SPS Technologies has consistently provided stronger, more reliable fasteners for more and more demanding applications. Our commitment to quality, reliability and advanced technology has distinguished SPS from our competitors. From the first generation of propeller-driven military airplanes to today's high performance aircraft and space vehicles, the aerospace industry has benefited from the use of SPS products.

True to SPS Technologies' quest for improved customer satisfaction, SPS acquired production equipment and associated technology, including ESNA drawings, from the ESNA Division of Harvard Industries in 1995. SPS Technologies now has the ability to manufacture a full line of ESNA aerospace locknuts.

### Mission Statement

SPS Technologies is committed to maintaining a level of performance that keeps us in the forefront of the aerospace industry. We will continue to improve all aspects of our business, relying on high standards of ethics and integrity, to assure complete customer satisfaction.

The acquisition of the ESNA product line was a strategic decision aimed at expanding our product offering and overall marketing presence in Aerospace nuts. SPS Technologies is committed to supporting all existing ESNA products and drawings and will assign new ESNA part numbers as requested by our customers. More specifically, the ESNA business will be managed as a product line within the overall portfolio of aerospace products offered by SPS Technologies now and in the future.

For additional information on ESNA parts and other SPS aerospace fasteners and precision components, please call our customer service representatives in our Jenkintown, PA facility. Phone: 215-572-3000. Fax: 215-572-3193.

The Selector Guide on the following page describes the wide range of ESNA products available from SPS to meet your exact assembly requirements. Please note that strength level denotes fastener strength, not material strength.

**ESNA**  
**SPS**  
TECHNOLOGIES

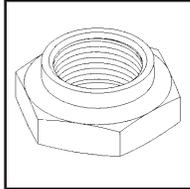
**ALPHABETICAL - NUMERICAL INDEX**

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A2506	8	17	LH8065	10	1	NA27	9	30
A4506	8	17	LH8099	6	32	NA401	7	4
A6293	7	11	LH8574A	5	22	NAJ401	7	5
A6792	7	12	LH9031	5	27	NAJ2674	7	5
E9868	4	11	LH10718	6	37	NE2935	5	16
E9925	4	12	LH10722	6	38	NE4717	4	8
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F11886	7	12	LH12105T	6	36	RG18	9	6
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F18425L	7	9	LH12284	4	3	RM2577	10	5
F18427L	8	24	LHA27M	9	31	SM1813	4	6
F19421	7	7	LHA27M-2860	9	31	TA2507	8	25
F19425	7	10	LHA71	8	28	TE9868	4	11A
F19427	8	23	LHA227	9	32	TE9925	4	12A
G15	9	5	LHA228	9	32	VA12502	7	14
G9421	9	7	LHA3022	7	15	VF12502	7	13
G11370	9	10	LHA3575	8	18	Z1200	4	7
G18421L	9	9	LHA4972	8	26	Z7764	5	15
G19421	9	8	LHA8574A	5	22	ZEB1845	5	20
LBF577	10	5	LHEB220	5	24	1452	10	2
LH18A	5	21	LHL9120	10	9	1650	10	8
LH22	5	25	LHL9546	10	10	1801	4	4
LH1855	6	29	LHTA525	8	20	1802	4	5
LH2577	10	5	LHTG51	9	1	1803	4	6
LH2935	5	18	LHTG51(J)	9	2	2452	10	2
LH3324	4	2	LHTG51-2860	9	1	2452RET	10	2
LH3393	5	23	LHTG55(J)	9	4	2552	10	3
LH3417	5	28	NA1	7	1	2552RET	10	3
LH4367	5	17	NA1K3	7	2	2577RET	10	6
LH6422T	6	33	NA5	8	19	2752	10	4
LH6426T	6	34	NA5K3	7	2	2752RET	10	4
LH6520	6	30	NA7	8	27	2935	5	18
LH6521	6	31	NA17A	8	21	3320RET	10	6
						4367	5	17

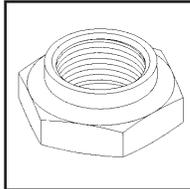
# 4 SELECTOR GUIDE

## 1 WRENCHABLE NUTS

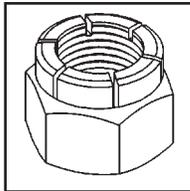
- Line offers a variety of different dimensions, materials, finishes, strengths, weights and temperature limits.
- All items are standard parts in the ESNA® self-locking fastener line.
- Wide range means design engineers can select the exact features they need.



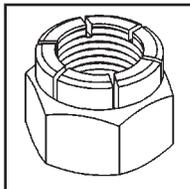
**LH7644** 2  
HEX, THIN, STRUCTURAL, SHEAR  
1/2-20 thru 1 1/2-12 to 450°F.



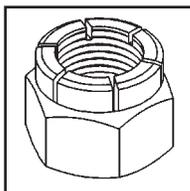
**LH12284** 3  
HEX, LOW HEIGHT STRUCTURAL,  
SHEAR, 80,000 PSI  
1/2-20 thru 1 1/4-12 to 450°F.  
NAS1757



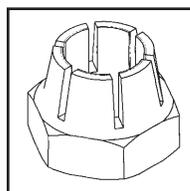
**1801** 4  
HEX, FULL HEIGHT  
4-40 thru 3/4-16 to 450°F.  
AN363, MS20365, MS21045,  
NAS1021



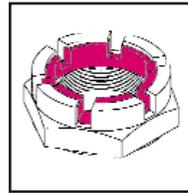
**1802** 5  
HEX, HIGH TEMPERATURE  
8-32 thru 1/2-20 to 1200°F.  
MS20500



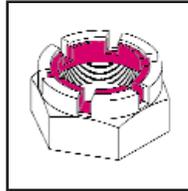
**1803** 6  
**SM1813**  
HEX, FULL HEIGHT  
4-40 thru 5/8-18 to 450°F and 800°F.  
AN363, MS20365, MS21045,  
MS21046, NAS1021



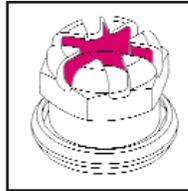
**Z1200** 7  
HEX, HIGH TEMPERATURE  
00 thru 00 to 1200°F.



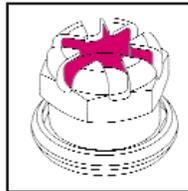
**NE4717** 8  
HEX, THIN, CASTELLATED,  
SELF-LOCKING  
10-32 thru 1-12 to 250°F.  
MS17826



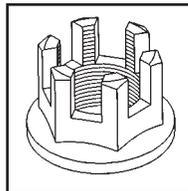
**NE4753** 8A  
HEX, FULL, CASTELLATED,  
SELF-LOCKING  
10-32 thru 1-12 to 250°F.  
MS17825



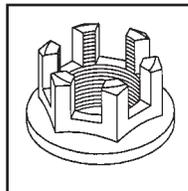
**NE8235** 9  
HEX, CASTELLATED, C'BORED,  
SELF-LOCKING, CAPTIVE WASHER  
10-32 thru 1-12 to 250°F.  
MS21224



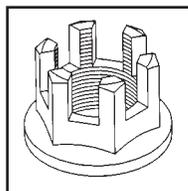
**NE9106** 10  
HEX, CASTELLATED, C'BORED,  
SELF-LOCKING, STEEL,  
CAPTIVE WASHER  
10-32 thru 5/8-18 to 250°F.



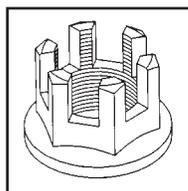
**E9868** 11  
REDUCED HEX, FULL,  
LIGHTWEIGHT, CASTELLATED,  
SELF-LOCKING  
10-32 thru 1-12 to 450°F.  
MS14144, NSA5059



**TE9868** 11A  
REDUCED HEX, THIN,  
LIGHTWEIGHT, CASTELLATED,  
SELF-LOCKING  
10-32 thru 1-12 to 450°F.  
MS14145, NSA5060

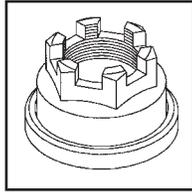


**E9925** 12  
REDUCED HEX, FULL,  
LIGHTWEIGHT, CASTELLATED,  
SELF-LOCKING  
10-32 thru 1 1/4-12 to 450°F and  
800°F.  
NSA5059C

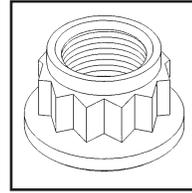


**TE9925** 12A  
REDUCED HEX, THIN,  
LIGHTWEIGHT, CASTELLATED,  
SELF-LOCKING  
10-32 thru 1 1/4-12 to 450°F and  
800°F.  
NSA5660C

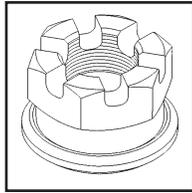
\* Application temperatures are dependent on configuration of part, material & finish



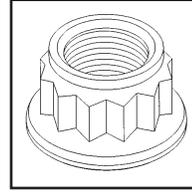
**E10361** 15  
 HEX, CASTELLATED, C'BORED, SELF-LOCKING, CAPTIVE WASHER  
 10-32 thru 1-12 to 450°F.  
 MS14146



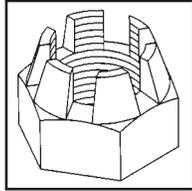
**LH18A** 21  
 DOUBLE HEX (180,000 PSI)  
 10-32 thru 2-12 to 450°F.  
 NAS1804



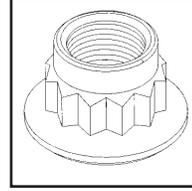
**E11900** 14  
 HEX, CASTELLATED, C'BORED, NON SELF-LOCKING  
 10-32 thru 1-12 to 450°F.  
 MS21244



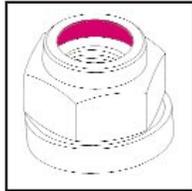
**LH8574A** 22  
 DOUBLE HEX (180,000 PSI)  
 10-24 thru 2-12 to 450°F and 800°F.  
 NAS1805



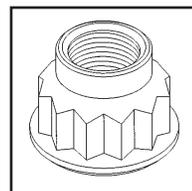
**Z7764** 15  
 HEX, CASTELLATED, SELF-LOCKING  
 3/8 thru 1/2-20 to 800°F.  
 MS21225



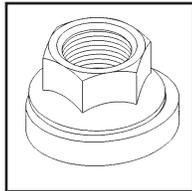
**LH3393** 25  
 REDUCED DOUBLE HEX, HIGH TENSILE (220,000 PSI)  
 1/4-28 thru 1/2-20 to 450°F.



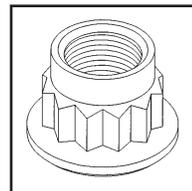
**NE2935** 18  
**2935**  
 HEX, SELF-ALIGNING and MATING BASE RING  
 3/8 thru 3/4-16 to 250°F.



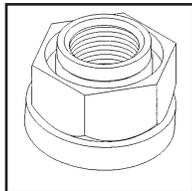
**LHEB220** 24  
 DOUBLE HEX, HIGH TENSILE (220,000 PSI)  
 1/4-28 thru 1-12 to 450°F.



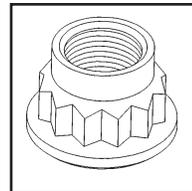
**LH4367** 17  
**4367**  
 REDUCED HEX, SELF-LOCKING, LIGHTWEIGHT and MATING BASE RING (160,000 PSI)  
 8-32 thru 1/2-20 to 450°F.



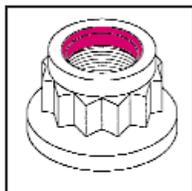
**LH2** 25  
 DOUBLE HEX, HIGH TENSILE (220,000 PSI)  
 10-32 thru 2-12 to 450°F.



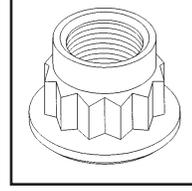
**LH2935** 18  
**2935**  
 HEX, SELF-ALIGNING and MATING BASE RING  
 10-32 thru 5/16-24 to 450°F.



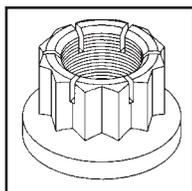
**LH11848** 26  
 DOUBLE HEX, HIGH TENSILE (220,000 PSI)  
 10-32 thru 1 1/2-12 to 450°F.  
 NAS1758



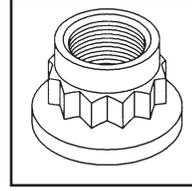
**EB** 19  
 DOUBLE HEX, HIGH TENSILE, NYLON INSERT (180,000 PSI)  
 1/4-28 thru 1 1/2-12 to 250°F.



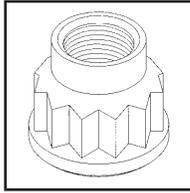
**LH9031** 27  
 DOUBLE HEX, HIGH TENSILE (220,000 PSI)  
 10-32 thru 2-12 to 450°F and 800°F.



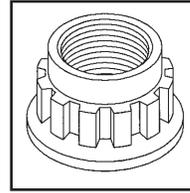
**ZEB1845** 20  
 DOUBLE HEX, HIGH TENSILE (180,000 PSI)  
 1/4-28 thru 1-12 to 450°F.



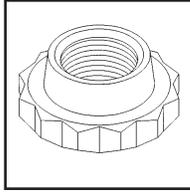
**LH3417** 28  
 REDUCED DOUBLE HEX, CLOSE CLEARANCE  
 8-36 thru 9/16-18 to 1200°F.



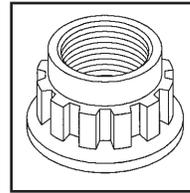
**LH1855** 29  
DOUBLE HEX, CLOSE CLEARANCE  
10-32 thru 3/8-24 to 1200°F.



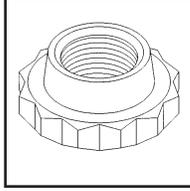
**LH10718** 37  
SPLINE DRIVE, SELF-LOCKING,  
FLANGED (180,000 PSI)  
10-32 thru 1 1/2-12 to 450°F.  
MS21133



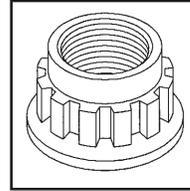
**LH6520** 30  
DOUBLE HEX, LIGHTWEIGHT SHEAR  
5/16-24 thru 5/8-18 to 450°F.



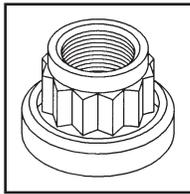
**LH10722** 38  
SPLINE DRIVE, SELF-LOCKING,  
FLANGED (220,000 PSI)  
10-32 thru 1 1/2-12 to 450°F.  
MS21084



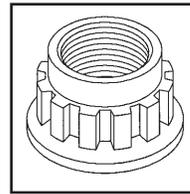
**LH6521** 31  
DOUBLE HEX, LIGHTWEIGHT SHEAR  
1/4-28 thru 5/8-18 to 450°F.



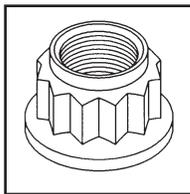
**LH10726** 39  
SPLINE DRIVE, SELF-LOCKING,  
FLANGED (260,000 PSI)  
10-32 thru 1-12 to 450°F.  
MS21085



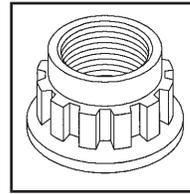
**LH8099** 32  
REDUCED DOUBLE HEX, HIGH  
TENSILE, CAPTIVE WASHER  
10-32 thru 3/8-24 to 450°F.  
MS90415



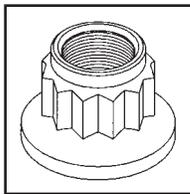
**LH11860** 40  
SPLINE DRIVE, SELF-LOCKING,  
FLANGED (180,000 PSI)  
10-32 thru 1 1/2-12 to 450°F.  
MS14156



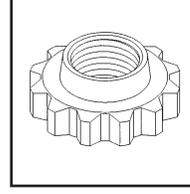
**LH6422T** 33  
DOUBLE HEX, HIGH TENSILE  
(220,000 PSI) **Double/Durability**®  
10-32 thru 1 1/2-12 to 450°F.



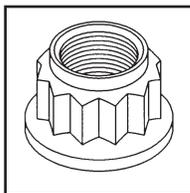
**LH11995** 41  
SPLINE DRIVE, SELF-LOCKING,  
FLANGED (220,000 PSI)  
10-32 thru 1 1/2-12 to 450°F.  
MS14164



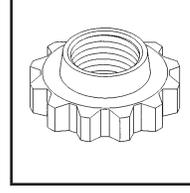
**LH6426T** 34  
DOUBLE HEX, HIGH TENSILE  
(260,000 PSI) **Double/Durability**®  
10-32 thru 1-12 to 450°F.



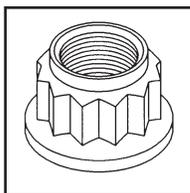
**LH11922** 42  
SPLINE DRIVE, SELF-LOCKING,  
SHEAR  
10-32 thru 1 1/2-12 to 450°F.  
MIL-N-8985/2



**LH12175T** 35  
DOUBLE HEX **Double/Durability**®  
1/4-28 thru 5/8-18 to 800°F.



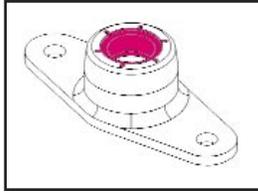
**LH11926** 45  
SPLINE DRIVE, SELF-LOCKING,  
SHEAR  
1/4-28 thru 1-12 to 450°F.



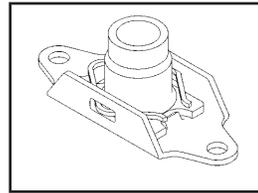
**LH12105T** 36  
DOUBLE HEX **Double/Durability**®  
1/4-28 thru 1 1/2-12 to 1200°F.

## 2 ANCHOR NUTS

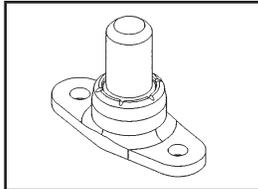
- Wide range to meet a variety of engineering demands
- Engineers can choose from a variety of shape, material, finish, strength, weight and temperature limit characteristics



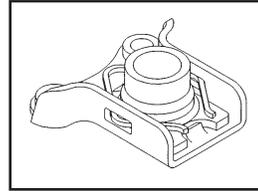
**NA1** 1  
ANCHOR, TWO LUG, NYLON INSERT  
4-40 thru 5/8-18 to 250°F.  
MS21078, NAS1023, AN366



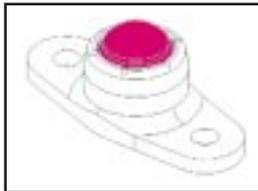
**F18421L** 8  
ANCHOR, TWO LUG, FLOATING,  
C'BORED, REPLACEABLE NUT  
10-32 thru 5/16-24 to 450°F.



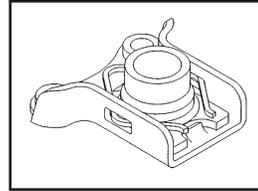
**NA1K3, NA5K3, NA17K3** 2  
ANCHOR, HIGH METAL CAP, NYLON INSERT  
6/32 thru 1/4-28 to 250°F.



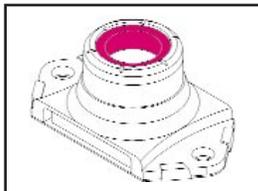
**F18425L** 9  
ANCHOR, CORNER, FLOATING,  
C'BORED, REPLACEABLE NUT  
10-32 thru 5/16-24 to 450°F  
and 800°F.



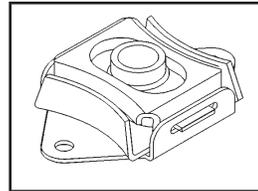
**NKA1, NKA5, NKA17** 5  
ANCHOR, NYLON CAP  
6-32 thru 5/16-24 to 250°F.



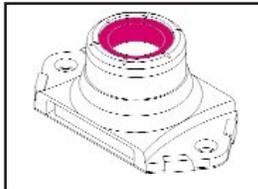
**F19425** 10  
ANCHOR, CORNER, FLOATING,  
C'BORED, REPLACEABLE NUT  
10-32 thru 5/16-24 to 450°F.



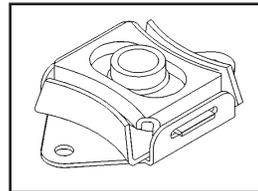
**NA401** 4  
ANCHOR, TWO LUG, FLOATING,  
NARROW  
6-32 thru 1/2-20 to 250°F.  
MS21077, NAS1031



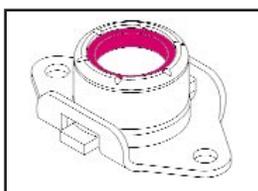
**A6293 F11885** 11  
ANCHOR, FLOATING,  
SPRING LOADED  
10-32 and 1/4-28 to 450°F.



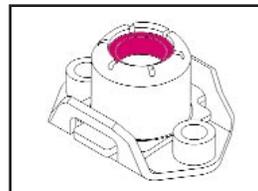
**NAJ401, NAJ2674** 5  
ANCHOR, TWO LUG, FLOATING,  
NARROW, HIGH STRENGTH  
ALUMINUM  
6-32 thru 1/4-28 to 250°F.  
NAS1031



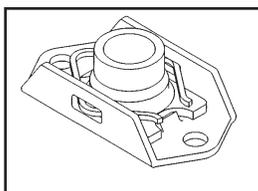
**A6792 F11886** 12  
ANCHOR, FLOATING, SPRING  
LOADED  
10-32 to 450°F.



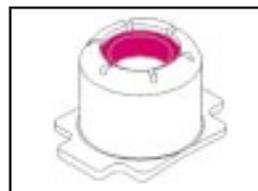
**NA21** 6  
ANCHOR, TWO LUG, FLOATING,  
NYLON INSERT  
6-32 thru 7/16-20 to 250°F.



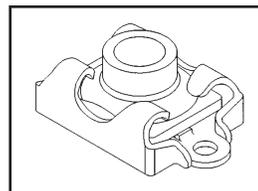
**VF12502** 13  
ANCHOR, TWO LUG, FLOATING,  
REPLACEABLE NUT, VESPEL Insert  
10-32 thru 5/16-24 to 450°F.  
MS14179



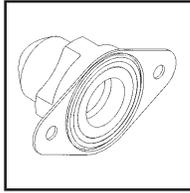
**F9421 F19421** 7  
ANCHOR, TWO LUG, FLOATING,  
C'BORED, REPLACEABLE NUT  
10-32 thru 5/16-24 to 450°F.



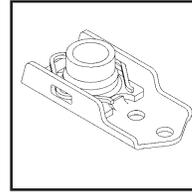
**VA12502** 14  
REPLACEMENT NUT, VESPEL Insert  
FOR PART VF12502  
10-32 thru 5/16-24 to 450°F.  
MS14180



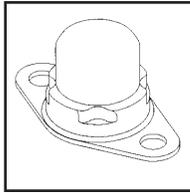
**LHA3022** 15  
ANCHOR, TWO LUG,  
SELF-ALIGNING  
10-32 thru 3/8-24 to 450°F.



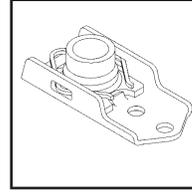
**A2502** 16  
ANCHOR, FLOATING, TWO LUG,  
CAPPED, BASE SEAL  
8/32 thru 5/16-24 to 250°F and  
450°F.



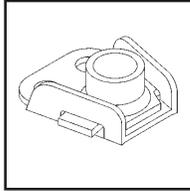
**F19427** 25  
ANCHOR, FLOATING, ONE LUG, DEEP  
C'BORED, REPLACEABLE NUT  
10-32 thru 5/16-24 to 450°F.



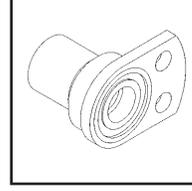
**A2506** 17  
**A4506**  
ANCHOR, CAPPED, FLOATING, BASE  
SEAL, MINIATURE  
6-32 thru 1/4-28 to 450°F.



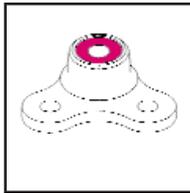
**F18427L** 24  
ANCHOR, FLOATING, ONE LUG,  
C'BORED, REPLACEABLE NUT  
10-32 thru 5/16-24 to 450°F.



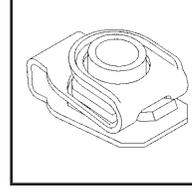
**LHA3575** 18  
ANCHOR, CORNER, FLOATING,  
REDUCED RIVET SPACING  
10-32 to 450°F.



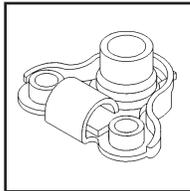
**TA2507** 25  
ANCHOR, FLOATING, CORNER,  
CAPPED, BASE SEAL  
10-32 thru 5/16-24 to 250°F.



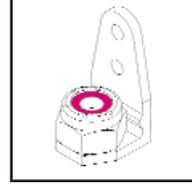
**NA5** 19  
ANCHOR, CORNER, NYLON INSERT  
6-32 thru 5/8-18 to 250°F.  
MS21081, NAS1027



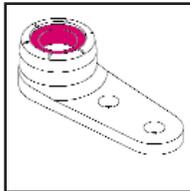
**LHA4972** 26  
ANCHOR, CLIP-ON, FLOATING  
6-32 thru 10-32 to 450°F.



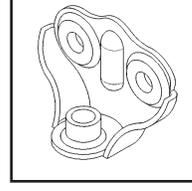
**LHTA525** 20  
ANCHOR, CORNER, FLOATING,  
C'BORED, LOW HEIGHT  
10-32 and 1/4-28 to 450°F.



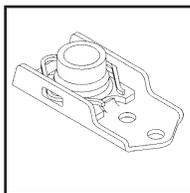
**NA7** 27  
ANCHOR, RIGHT ANGLE, BRACKET  
6-32 thru 10-32 to 250°F.  
AN256



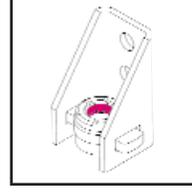
**NA17A** 21  
ANCHOR, ONE LUG, TWO RIVET  
HOLES  
6-32 thru 5/16-24 to 250°F.  
MS21080, NAS1025



**LHA71** 28  
ANCHOR, RIGHT ANGLE, BRACKET  
8-32 and 10-32 to 450°F.



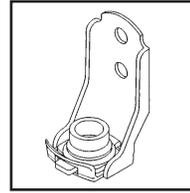
**F9427** 22  
ANCHOR, FLOATING, ONE LUG,  
C'BORED, REPLACEABLE NUT  
10-32 thru 5/16-24 to 450°F.



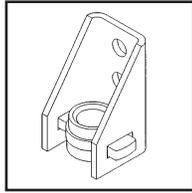
**A27M** 29  
ANCHOR, RIGHT ANGLE, FLOATING,  
MINIATURE  
4-40 to 250°F.



**NA27** 50  
ANCHOR, RIGHT ANGLE, FLOATING  
6-32 thru 5/16-24 to 250°F.  
NAS1033



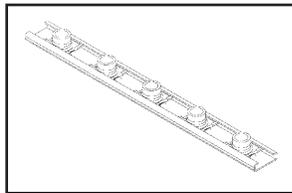
**LHA227** 32  
**LHA228**  
ANCHOR, RIGHT ANGLE, FLOATING  
4-40 and 6-32 to 450°F. and 800°F.



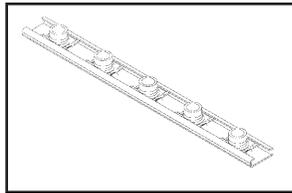
**LHA27M** 51  
**LHA27M-2860**  
ANCHOR, RIGHT ANGLE, FLOATING,  
MINIATURE  
4-40 and 6-32 to 450°F. and 800°F.

## 3 GANG CHANNEL NUTS

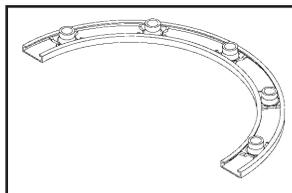
- Straight or radius designs
- Retains floating, self-locking, self-wrenching nuts in pre-established position
- Channel-fixed or individually removable
- Many reusable thread sizes in standard low height parts
- Temperature requirements to 1400°F.



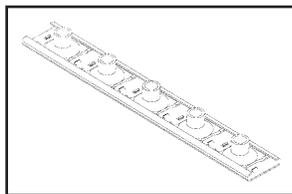
**LHTG51** 1  
**LHTG51-2860**  
GANG CHANNEL, STRAIGHT,  
C'BORED, LOW HEIGHT, STAINLESS  
STEEL CHANNEL  
8-32 thru 1/4-28 to 450°F. and 800°F.  
MS21064, MS21065,  
NAS688-NAS692



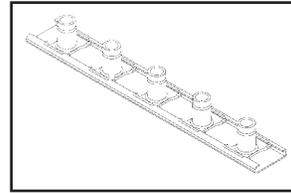
**LHTG51(J)** 2  
GANG CHANNEL, STRAIGHT,  
C'BORED, LOW HEIGHT, ALUMINUM  
ALLOY CHANNEL  
8-32 thru 5/16-24 to 450°F.  
MS21063, NAS688-NAS692, NAS1034-  
NAS1037



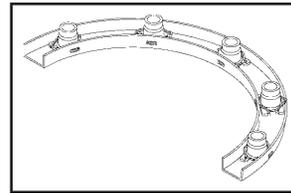
**RG51** 5  
GANG CHANNEL, RADIUS, C'BORED,  
LOW HEIGHT, ALUMINUM ALLOY  
CHANNEL  
8-32 thru 5/16-24 to 450°F.



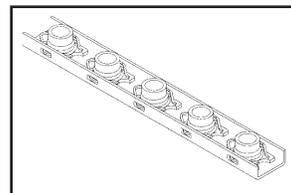
**LHTG55(J)** 4  
GANG CHANNEL, STRAIGHT, 100°  
C'SUNK, LOW HEIGHT, ALUMINUM  
ALLOY CHANNEL  
8-32 thru 1/4-28 to 450°F.  
MS21066, NAS693-NAS695,  
NAS1039-NAS1041



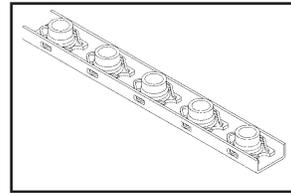
**G15** 5  
GANG CHANNEL, STRAIGHT, DEEP  
C'BORED, ALUMINUM ALLOY  
CHANNEL  
10-32 and 1/4-28 to 450°F.



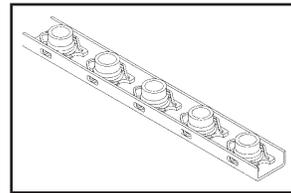
**RG18** 6  
GANG CHANNEL, RADIUS, C'BORED,  
HI-PERFORMANCE,  
REPLACEABLE NUT  
10-32 thru 5/16-24 to 450°F.



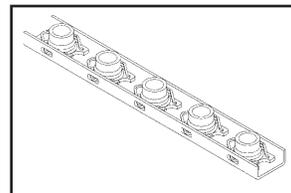
**G9421** 7  
GANG CHANNEL, STRAIGHT,  
C'BORED, REPLACEABLE NUT  
10-32 thru 5/16-24 to 450°F.



**G19421** 8  
GANG CHANNEL, STRAIGHT, DEEP  
C'BORED, REPLACEABLE NUT  
10-32 thru 5/16-24 to 450°F.



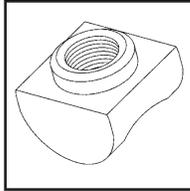
**G18421L** 9  
GANG CHANNEL, STRAIGHT, DEEP  
C'BORED, HI-PERFORMANCE,  
REPLACEABLE NUT  
10-32 thru 5/16-24 to 450°F.



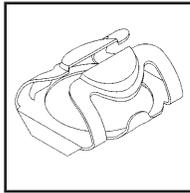
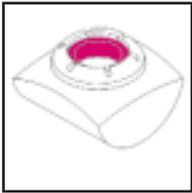
**G11370** 10  
GANG CHANNEL, STRAIGHT,  
C'BORED, REPLACEABLE NUT,  
(160,000 PSI), CRES  
10-32 thru 7/16-20 to 450°F.

## 4 BARREL NUTS SHANK NUTS

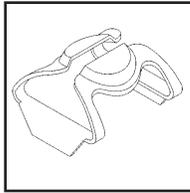
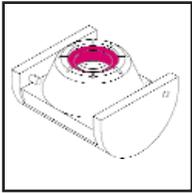
- Self-locking, self-wrenching, self-retaining
- High strength lets you cut costs and weight, while maintaining structural integrity
- Nuts available as floating or non-floating
- Choose from ESNA red nylon insert, VESPEL® locking collar or all-metal
- ESNA Double/Durability high fatigue thread form available on all-metal designs



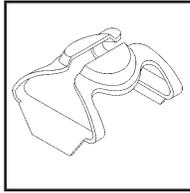
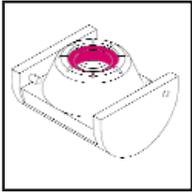
**LH8065** 1  
BARREL, HIGH TENSILE,  
LIGHTWEIGHT, DEEP C'BORED  
(220,000 PSI)  
10-32 thru 1 1/2-12 to 450°F.



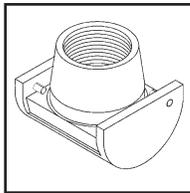
**1452, 2452, 2452RET** 2  
BARREL, HIGH TENSILE,  
LIGHT-WEIGHT, and RETAINER  
10-32 thru 1 1/2-12 to 250°F.



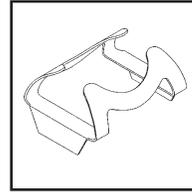
**2552, 2552RET** 3  
BARREL, HIGH TENSILE, FLOATING,  
and RETAINER  
10-32 thru 1 1/2-12 to 250°F.



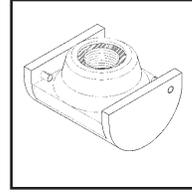
**2752, 2752RET** 4  
BARREL, HIGH TENSILE, FLOATING,  
and RETAINER  
1/4-28 thru 1 1/2-12 to 250°F.



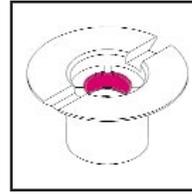
**LBF577, LH2577, RM2577** 5  
BARREL, HIGH TENSILE,  
FLOATING (180,000 PSI)  
1/4-28 thru 1 1/2-12 to 450°F.  
NAS577B



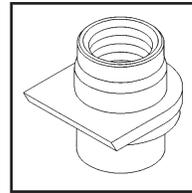
**2577RET, 3320RET** 6  
BARREL NUT  
RETAINERS, FLOATING, INDEXING  
and NON-INDEXING  
1/4-28 thru 1 1/4-12 to 450°F.  
NAS578



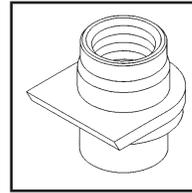
**LH7940T** 7  
BARREL, HIGH TENSILE, FLOATING  
Double/Durability®  
(220,000 PSI)  
1/4-28 thru 1 1/2-12 to 450°F.



**1650** 8  
SHANK NUT, 100°  
FLUSH MOUNTING, SLOTTED,  
NYLON INSERT  
8-32 thru 3/8-24 to 250°F.



**LHL9120** 9  
SHANK NUT, SELF-RETAINING,  
SELF-WRENCHING  
10-32 thru 3/8-24 to 1200°F.



**LHL9546** 10  
SHANK NUT, SELF-RETAINING,  
SELF-WRENCHING  
10-32 thru 7/16-20 to 1200°F.

For sales and technical assistance on Barrel Nuts & Shank Nuts contact SPS Technologies, Jenkintown, Pa. Phone: 215-572-3000, Fax: 215-572-3195.

For sales and technical assistance on Barrel Nut Retainers contact SPS Technologies, Santa Ana, CA. Phone: 714-545-9311, Fax: 714-850-3605.

## Special Bearing Locknuts

SPS Technologies has extensive experience in the design and manufacture of special bearing locknuts. These special locknuts provide solutions to difficult fastening problems encountered in the manufacture of airframe and gas turbine engines. SPS manufactures a wide range of special bearing locknuts for our aerospace customers that deliver...

- Superior Performance
- Reuse Capability
- Reduction of Assembly/Overhaul Costs
- Design Customized to Application Needs
- Wide Temperature Range

## Self-Locking, Vibration-Resistant VESPEL® Insert Fasteners

- Elevated Temperature Range
- Increased Vibration Resistance
- Extended Reuse Performance

These special locknuts use a high-temperature, non-metallic VESPEL locking insert that protects bolt threads, increases fastener reusability and performs at temperatures up to 500°F. For over a decade VESPEL has been specified as a locking insert material for critical aerospace and jet engine applications.

**Information on special bearing locknuts, VESPEL insert fasteners, and all aerospace wrenchable locknuts can be obtained by contacting the SPS Technologies facility in Jenkintown, Pennsylvania.**

## Anchor Nuts and Gang Channel Nuts

**The SPS Technologies Santa Ana, California facility can provide sales and technical assistance for all your anchor and gang channel nut requirements.**

Equa-Stress®

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