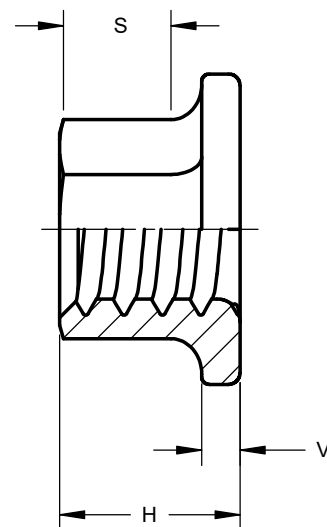
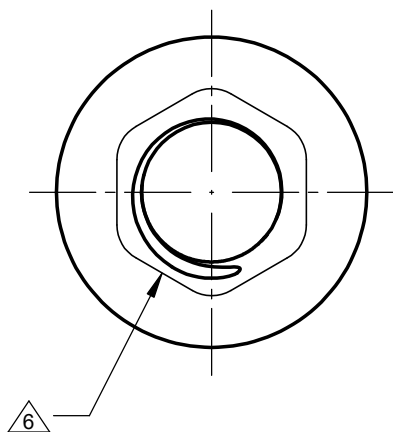
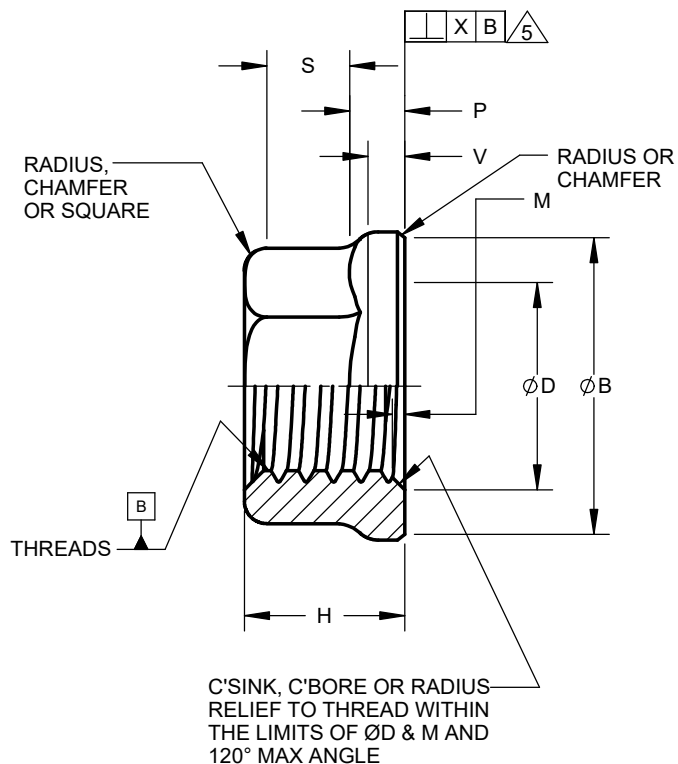
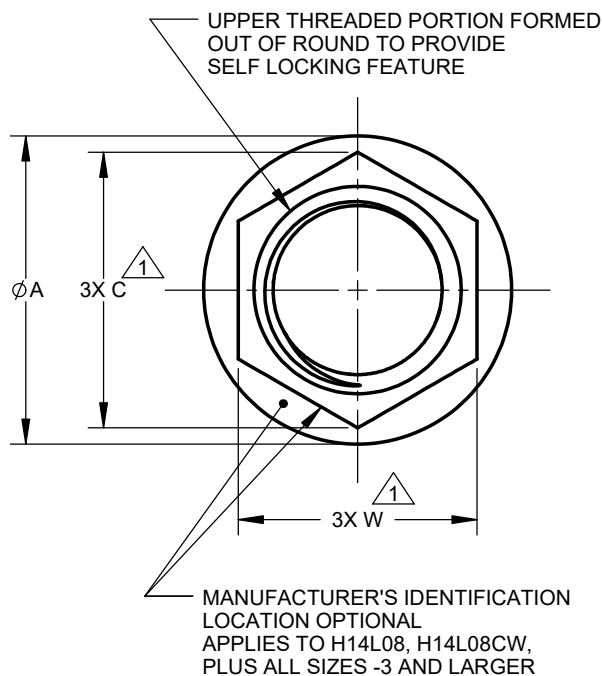


MANUFACTURE OF THE PROPRIETARY PARTS SHOWN HERE WITHOUT WRITTEN
CONSENT OF HOWMET FASTENING SYSTEMS IS ABSOLUTELY PROHIBITED.

6 ALTERNATE CONFIGURATION
APPLIES TO H14-04, L04, -06, L06,
-640, -08, L08 & -836 SIZES

FILED AS:

S_H14(V)(V)

THIRD ANGLE
PROJECTION

APPROVED DATE

10FEB1987

REV. LETTER AND DATE:

E 16JUN2020

CUSTOMER:

EAR EXPORT CONTROLLED TECHNICAL DATA: DISTRIBUTION LIMITED TO U.S. PERSONS OR THOSE NON-U.S. PERSONS
COVERED BY AN APPROPRIATE EXPORT LICENSE OR ALLOWED FOR BY THE APPROPRIATE REGULATIONS, ECCN: EAR99.

CURRENT DESIGN ACTIVITY:



Howmet Fastening Systems
800 S State College Boulevard
Fullerton, California, 92831

<http://www.hfs.howmet.com>

TITLE:

NUT - 6 POINT,
SELF LOCKING

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE
IN INCHES & TO ASME Y14.5-2018 TOLERANCES:
DECIMALS = ± 0.010 ; ANGLES = $\pm 2^\circ$

CAGE CODE: 15653

SALES DRAWING No.

H14(*)/(*)/(*)

SHEET 1 OF 3

MANUFACTURE OF THE PROPRIETARY PARTS SHOWN HERE WITHOUT WRITTEN
CONSENT OF HOWMET FASTENING SYSTEMS IS ABSOLUTELY PROHIBITED.THIS DRAWING EMBODIES HOWMET FASTENING SYSTEMS CONFIDENTIAL, PROPRIETARY DESIGN & ALL DESIGN,
MANUFACTURING PRODUCTION, USE & SALE RIGHTS REGARDING SAME ARE EXPRESSLY RESERVED.

FILED AS:

HFS PART NO.	THREADS PER AS8879	ØA MAX	ØB MIN	C MIN	ØD	H	M	P MIN	S MIN	V	W	X
H14	-04	.1120-40UNJC-3B	.206	----	.138	----	.125 MAX	----	----	.050	.127 .121	----
	L04			.176	.171	.142 .112	.125 .103	.027 .005	.028		.158 .150	.003
	-06	.1380-32UNJC-3B	.244	----	----	.141 MAX	----	----	----	.010 MIN	.190 .181	----
	L06			.214	.207	.168 .138	.141 .115	.031 .006	.039		.158 .150	.003
	-640	.1380-40UNJF-3B		----	.171	----	.141 MAX	----	----		.190 .183	----
	-08	.1640-32UNJC-3B	.290	----	.207	----	.170 MAX	----	----	.015 MIN	.190 .183	----
	L08			.260	.244	.194 .164	.188 .125	.031 .006	.041		.221 .213	.003
	-836	.1640-36UNJF-3B		----	.207	----	.170 MAX	----	----		.190 .183	----
	M3	.1900-32UNJF-3B	.330	----	.244	----	.188 MAX	----	----	.065	.221 .213	----
	-3			.290	.277	.220 .190	.188 .154	.031 .006	.043		.252 .243	----
	M4	.2500-28UNJF-3B	.420	----	.313	----	.219 MAX	----	----	.019 MIN	.284 .274	.003
	-4			.386	.347	.280 .250	.219 .204	.036 .007	.057		.316 .304	----
	-5	.3125-24UNJF-3B	.520	.482	.419	.342 .312	.266 .251	.042 .008	.077	.120	.023 MIN	.378 .367
	-6	.3750-24UNJF-3B	.620	.575	.491	.405 .375	.282 .267	----	.089	.135	.030 MIN	.440 .430
	-7	.4375-20UNJF-3B	.708	.675	.562	.467 .437	.328 .313	----	----	.155	.035 MIN	.505 .494
	-8	.5000-20UNJF-3B	.820	.775	.633	.530 .500	.480 .460	----	----	.220	(.080)	.566 .555
	-9	.5625-18UNJF-3B	.922	.872	.775	.593 .563	.540 .520	----	----	.240	(.090)	.692 .680
	-10	.6250-18UNJF-3B	1.027	.977	.846	.655 .625	.600 .580	----	----	.250	(.105)	.755 .743

HFS PART NO.	AXIAL TENSILE STRENGTH lbf MIN	MINIMUM WRENCH TORQUE in-lbf	WEIGHT	
			MAX lbs/100	APPROX lbs/100
H14	-04	1,110	10	---
	L04		---	.03
	-06	1,670	---	.05
	L06		20	---
	-640	1,795	---	.08
	-08	2,490	---	.05
	L08		---	.09
	-836	---	30	---
	M3	3,470	---	.09
	-3		---	.18
	M4	6,200	---	---
	-4		---	.35
	-5	9,820	---	.60
	-6	15,200	---	.80
	-7	20,600	---	1.26
	-8	27,400		2.07
	-9	34,800		3.26
	-10	43,600		4.15

THIRD ANGLE
PROJECTIONEAR EXPORT CONTROLLED TECHNICAL DATA: DISTRIBUTION LIMITED TO U.S. PERSONS OR THOSE NON-U.S. PERSONS
COVERED BY AN APPROPRIATE EXPORT LICENSE OR ALLOWED FOR BY THE APPROPRIATE REGULATIONS, ECCN: EAR99.

APPROVED DATE

10FEB1987

REV. LETTER AND DATE:

E 16JUN2020

CUSTOMER:

CURRENT DESIGN ACTIVITY:

Howmet Fastening Systems
800 S State College Boulevard
Fullerton, California, 92831<http://www.hfs.howmet.com>

TITLE:

NUT - 6 POINT,
SELF LOCKINGUNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE
IN INCHES & TO ASME Y14.5-2018 TOLERANCES:
DECIMALS = ±.010; ANGLES = ±2°

CAGE CODE: 15653

SALES DRAWING No.

H14(*) (*) (*)

SHEET 2 OF 3

MANUFACTURE OF THE PROPRIETARY PARTS SHOWN HERE WITHOUT WRITTEN
CONSENT OF HOWMET FASTENING SYSTEMS IS ABSOLUTELY PROHIBITED.THIS DRAWING EMBODIES HOWMET FASTENING SYSTEMS CONFIDENTIAL, PROPRIETARY DESIGN & ALL DESIGN,
MANUFACTURING PRODUCTION, USE & SALE RIGHTS REGARDING SAME ARE EXPRESSLY RESERVED.

MATERIAL: SIZES .1120-40 THRU .3750-24:
CARBON OR ALLOY STEEL.

SIZES .4375-20 AND LARGER:
4340 ALLOY STEEL PER AMS6414 OR AMS6415 (UNS G43406), OR
8740 ALLOY STEEL PER AMS6322 (UNS G87400).

HEAT TREAT: Rc 49 MAX.

FINISH: H14-(*), H14L(*) & H14M(*):
CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2, PLUS SOLID FILM
LUBE PER AS5272, TYPE I.

H14-(*)CW, H14L(*)CW & H14M(*)CW:
CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2, PLUS WAX.

H14X(*), H14LX(*) & H14MX(*):
CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2.

PERFORMANCE: NASM25027, EXCEPT AS FOLLOWS:
A) AXIAL TENSILE STRENGTH AS TABULATED, BASED ON 160 KSI.
B) WRENCH TORQUE FOR SIZES INDICATED IN TABULATION, BY USE
OF BOX OR SOCKET WRENCH.
C) TEST BOLTS TO BE 180 KSI MINIMUM.

- NOTES:
1. DIMENSIONS C AND W APPLY BEFORE FORMING SELF LOCKING FEATURE.
 2. REMOVE ALL SHARP EDGES AND BURRS.
 3. DIMENSIONS APPLY PRIOR TO LUBE.
 4. UNLESS OTHERWISE SPECIFIED:
A) SURFACE TEXTURE 125 MICROINCHES PER ASME B46.1.
 5. PERPENDICULARITY MEASURED IN ACCORDANCE WITH NASM25027.
 6. FOR PARTS USING ALTERNATE CONFIGURATION:
AS THE RESULT OF NATURAL MATERIAL FLOW DURING FORMING, THE BOTTOM C'SINK
OF THESE PARTS WILL HAVE THE APPEARANCE OF A HEX AND SHALL NOT BE CAUSE
FOR REJECTION.

THIRD ANGLE
PROJECTION

EAR EXPORT CONTROLLED TECHNICAL DATA: DISTRIBUTION LIMITED TO U.S. PERSONS OR THOSE NON-U.S. PERSONS
COVERED BY AN APPROPRIATE EXPORT LICENSE OR ALLOWED FOR BY THE APPROPRIATE REGULATIONS, ECCN: EAR99.

APPROVED DATE

10FEB1987

REV. LETTER AND DATE:

E 16JUN2020

CUSTOMER:

CURRENT DESIGN ACTIVITY:



Howmet Fastening Systems
800 S State College Boulevard
Fullerton, California, 92831

<http://www.hfs.howmet.com>

TITLE:

NUT - 6 POINT,
SELF LOCKING

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE
IN INCHES & TO ASME Y14.5-2018 TOLERANCES:
DECIMALS = ±.010; ANGLES = ±2°

CAGE CODE: 15653

SALES DRAWING No.

H14(*) (*) (*)

SHEET 3 OF 3

FILED AS:

S_H14(*) (*) (*)