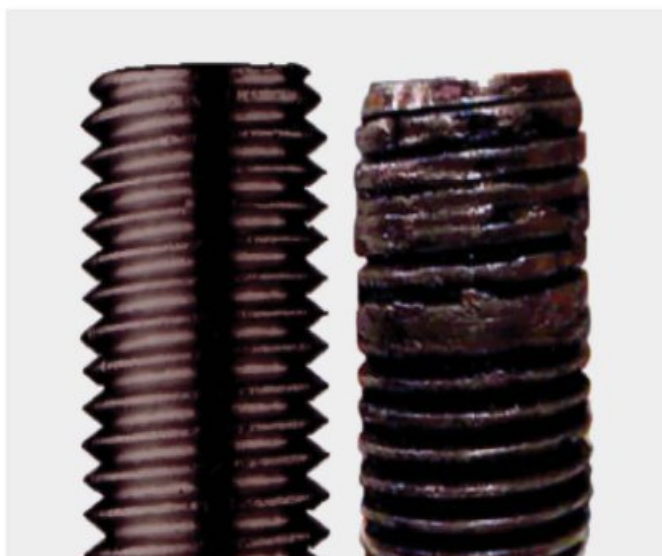


HYTORC GALL-FREE NUT

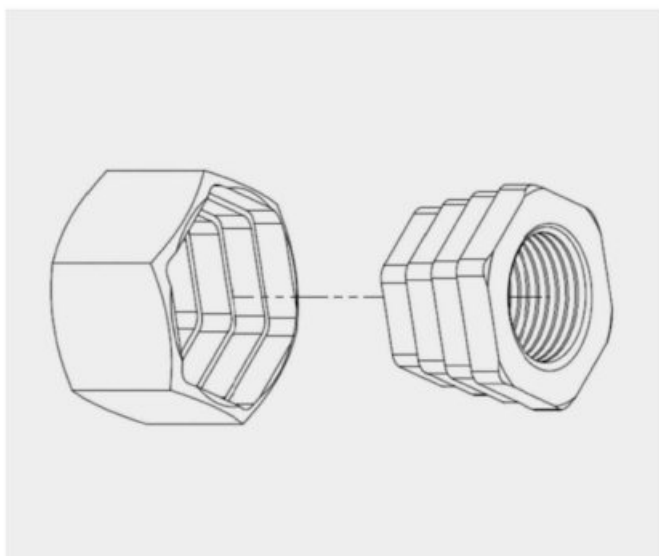
The HYTORC Gall-Free Nut eliminates thread failure and seizing, allowing bolted joints to be safely removed and reused without destroying the joint surface. Galled bolt threads are a costly by-product of high friction and temperatures that makes your fasteners non-reusable and joint disassembly a labor-intensive ordeal.

The HYTORC Gall-Free Nut offers anti-galling performance in a standard hex nut geometry in all common hex sizes, and can be customized for non-standard application constraints as well. Its patent-pending design geometry and unique material conditioning can eliminate galling even on fine high-alloy threads operating at elevated loads and temperatures without lubricant or anti-seize.

GALLING EXAMPLES



TWO PIECE GEOMETRY



ANTI-GALLING PROPERTIES



The HYTORC Gall-Free Nut coated thread design eliminates the microscopic material corrosion that occurs when fasteners are subjected to high temperatures and increased friction over extended time periods. This technology counters the galling effect of plastic deformation and micro-scale material transfer of thread surfaces.

MATERIALS AND DESIGN



The two-part design consists of interlocking inner and outer sleeves with tapered threads that integrate advanced anti-galling properties. Compatible with standard bolt threads, the HYTORC Gall-Free Nut can be finished in a variety of coatings and materials to suit your specific applications.

LOADING SURFACE

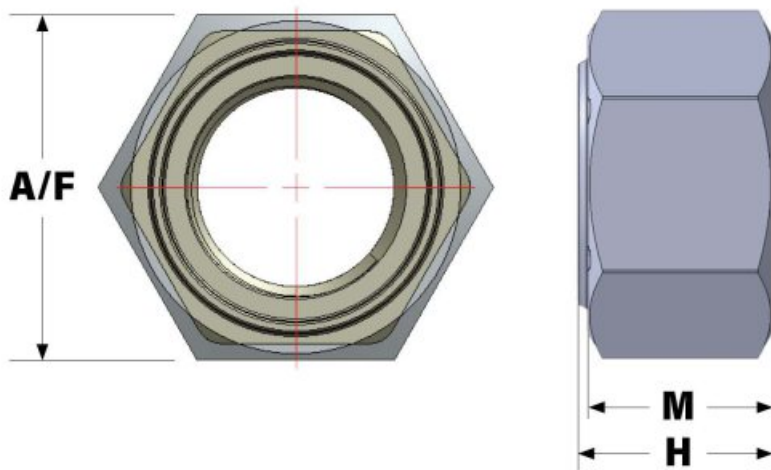


1



2

The HYTORC Gall-Free Nut is installed with the load bearing surface (1) facing the flange. The top-side indicator ring (2) helps to ensure that the nut is installed properly.



LEGEND: M = THICKNESS A/F = WIDTH ACROSS FLATS H = NUT HEIGHT

GF-XXXXXX-XXX-XX-XX

Unit Specification*

Bolt Size Code

Thread Pitch Code

Hex Size Code

Nut Grade Code

Finish Code**

* Unit Specification:

I = IMPERIAL

M = METRIC

** Finish Code is used when alternative coatings are specified.



HYTORC GALL FREE NUT

SERVICE AND SUPPORT

HYTORC STANDARD



With over 50 years of experience focused entirely on developing the highest quality industrial bolting systems, HYTORC remains committed to higher performance and offers superior technology, quality, and customer support.

HY-CARE



HY-CARE Service Plans* provide peace of mind protection and offer a no deductible plan to protect you from unexpected bolting equipment repair costs and downtime after your standard equipment warranty expires. On average, a tool with HY-CARE lasts up to five times longer in service. Never settle for less.

*May not be available in all locations. Please contact your local HYTORC representative for more information.

VISIT US ONLINE

hytorc.com/standard

hytorc.com/customer-service-policy

hytorc.com/about-us

GF - NUT DIMENSIONS (IMPERIAL)

STUD DIAMETER	BOLT SIZE CODE	A/F NOMINAL	HEX SIZE CODE	M	H
				Max (in.)	
7/8	014	1-7/16	107	0.859	0.906
1	100	1-5/8	110	0.984	1.031
1-1/8	102	1-13/16	113	1.109	1.156
1-1/4	104	2	200	1.219	1.282
1-3/8	106	2-3/16	203	1.344	1.407
1-1/2	108	2-3/8	206	1.469	1.532
1-5/8	110	2-9/16	209	1.594	1.672
1-3/4	112	2-3/4	212	1.719	1.797
1-7/8	114	2-15/16	215	1.844	1.922
2	200	3-1/8	302	1.969	2.062
2-1/4	204	3-1/2	306	2.203	2.296
2-1/2	208	3-7/8	312	2.453	2.546

GF - NUT DIMENSIONS (METRIC)

STUD DIAMETER	BOLT SIZE CODE	A/F NOMINAL	HEX SIZE CODE	M	H
				Max (mm)	
M20	020	30	030	18.00	18.80
M22	022	32	032	19.40	20.20
M24	024	36	036	21.50	22.30
M27	027	41	041	23.80	24.60
M30	030	46	046	25.60	26.40
M33	033	50	050	28.70	29.50
M36	036	55	055	31.00	31.80
M39	039	60	060	33.40	34.40
M42	042	65	065	34.00	35.00
M45	045	70	070	36.00	37.00
M48	048	75	075	38.00	39.00
M52	052	80	080	42.00	43.00
M56	056	85	085	45.00	46.00
M60	060	90	090	48.00	49.00
M64	064	95	095	51.00	52.00

LEGEND: M = THICKNESS A/F = WIDTH ACROSS FLATS H = NUT HEIGHT

THREAD PITCH CODE

IMPERIAL (IN)		METRIC (MM)	
THREADS PER INCH	PITCH CODE	MM PER THREAD	PITCH CODE
4	04	1	01
4-1/2	45	3	03
8	08	3.5	35
12	12	6	06

NUT GRADE CODE

IMPERIAL*		METRIC**	
NUT GRADE	GRADE CODE	NUT GRADE	GRADE CODE
2H	01	8.8	04
7	02	10.9	05
8	03	12.9	06

* Imperial follows ASTM A194; ** Metric follows ISO 898-1

IMPERIAL EXAMPLE

G F - I 1 0 6 0 8 - 2 0 3 - 0 1

GALL FREE NUT IMPERIAL 1-3/8 NUT DIAMETER WITH 8 TPI,
2-3/16 HEX SIZE, 2H STEEL GRADE, BLACK OXIDE COATING

METRIC EXAMPLE

G F - M 0 3 6 0 4 - 0 5 5 - 0 5

GALL FREE NUT METRIC M36X4 NUT DIAMETER WITH 4 THREAD PITCH,
55 HEX SIZE, 10.9 STEEL GRADE, BLACK OXIDE COATING

The World's Most Trusted Industrial Bolting Systems

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