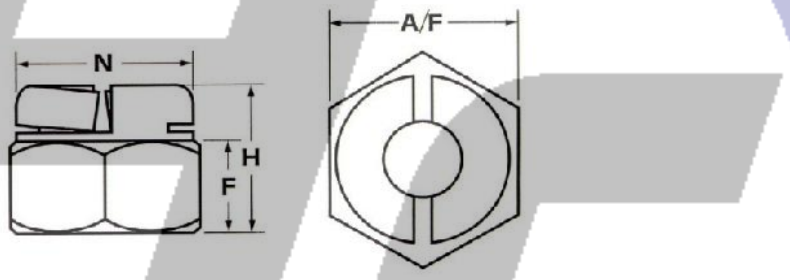
AEROTIGHT NUT DATASHEET

The aerotight® nut is a type of all-metal prevailing torque nut. This type of nut is called a self-locking nut or stiffnut. The nut can be used a number of times with the self-locking function remaining effective. The aerotight® nut is designed to stay in position whether it is tightened down or not provided the locking element is engaged. When assembled on the screw, two full threads should protrude through the aerotight nut. Aerotight® nuts should not be used on damaged or interrupted threads.

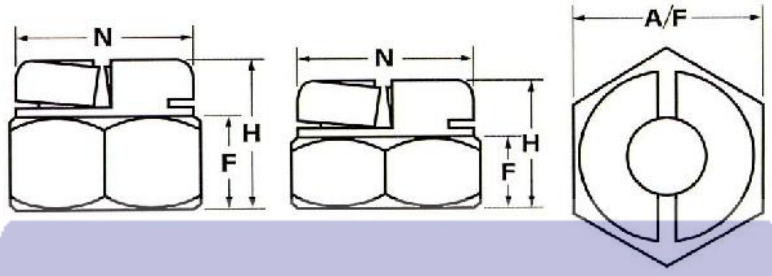
METRIC DIMENSIONS



Thread size	Pitch mm	A/F MAX. mm	N Dia Max. mm	H Max. mm	F Min. mm
M2.5	0.45	5.00	4.75	2.97	1.49
M3	0.50	5.50	5.25	3.52	1.89
M3.5	0.65	7.00	6.65	4.79	2.69
M4	0.70	7.00	6.65	4.79	2.69
M5	0.80	8.00	7.65	6.02	3.49
M6	1.00	10.00	9.58	7.95	4.63
M8	1.25	13.00	12.53	10.00	6.12
M10	1.50	17.00	16.53	12.03	7.62
M12	1.75	19.00	18.47	14.48	9.62
M16	2.00	24.00	23.47	18.75	12.62
M20	2.50	30.00	29.47	22.35	15.62
M24	3.00	36.00	35.18	26.85	18.62

ISO METRIC THREADS TO BS 3643 CLASS 6H

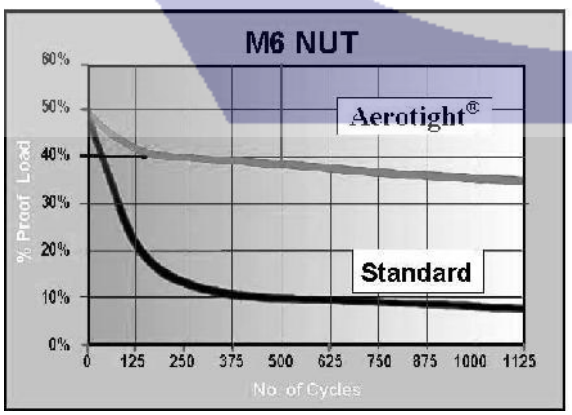
INCH DIMENSIONS (ORDINARY & THIN TYPE)

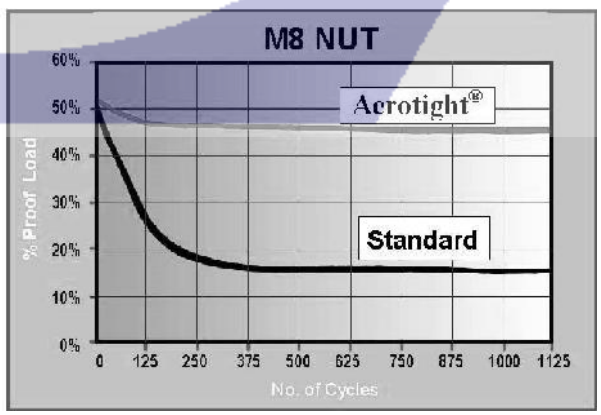


	SIZE	A/F Max.	Dia, N Max.	H Max. Ordinary	H Max. Thin	F Min. Ordinary	F Min. Thin
UNC/UNF threads To BS1580 Class 2B	NO4	0.250	0.177	0.172	0.140	0.080	0.053
	NO6	0.313	0.238	0.203	0.167	0.100	0.064
	NO10	0.375	0.360	0.266	0.222	0.149	0.105
	1/4	0.438	0.425	0.312	0.245	0.175	0.108
	5/16	0.500	0.488	0.408	0.299	0.250	0.141
	3/8	0.563	0.550	0.459	0.355	0.287	0.183
	7/16	0.688	0.675	0.539	0.414	0.350	0.225
	1/2	0.750	0.738	0.621	0.475	0.412	0.266
	5/8	0.937	0.922	0.773	N/A	0.537	N/A
	3/4	1.125	1.110	0.934	N/A	0.662	N/A
BA Threads To BS93	6	0.193	0.183	0.157	0.125	0.080	0.053
	4	0.248	0.238	0.203	0.162	0.110	0.069
	2	0.324	0.314	0.256	0.212	0.142	0.098
	0	0.413	0.403	0.328	0.272	0.188	0.132
BSW/BSF Threads To BS84 Normal Class	3/16	0.324	0.314	0.256	0.212	0.142	0.098
	1/4	0.445	0.433	0.312	0.245	0.175	0.108
	5/16	0.525	0.513	0.383	0.299	0.225	0.141
	3/8	0.600	0.588	0.459	0.355	0.287	0.183
	1/2	0.820	0.808	0.621	0.475	0.412	0.266

Vibration Test Comparison

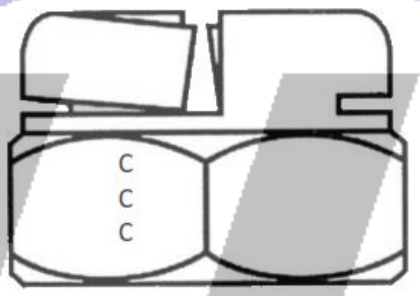
Aerotight® nut (A4 Stainless Steel) & Standard Nut (Grade 8)





Nut tested using Standard Grade 8.8 Bolt - Unlubricated. Accuracy of result: +/- 10%.

MATERIALS



Markings: All Genuine 316(A4) Aerotight® are marked with a unique identification on one of the flats of the hexagon (As shown)

- Stainless Steels 303 & 316(A4)
- Class 800 Cold Worked Stainless Steel A4-80
- Steel - 230M07 Non-Leaded
- Brass BS2874 CZ121