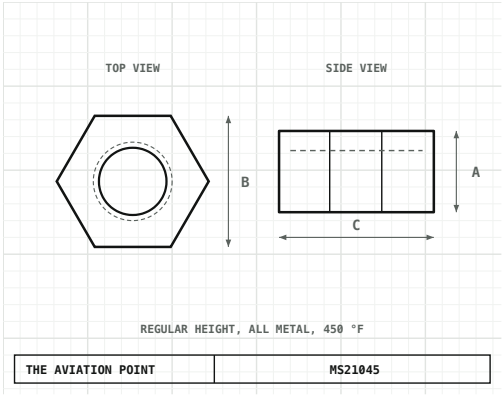
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MS21045 nut — regular height, all metal, 450 °F

Nut, Self-Locking, Regular Height, All Metal, 450 °F: dimensions by thread size and part numbers as listed.



MS21045



Engineering drawing · dimensions in inches

Specification

Item	Value
Type	Self-locking nut
Material	Carbon steel; corrosion-resistant steel (C)
Locking	All-metal
Max. temperature	450 °F
Status	Check the current issue of the standard before design use.

Dimensions by size

Dimension, in	.1120-40	.1380-32	.1640-32	.1900-32	.2500-28	.3125-24	.3750-24	.4375-20	.5000-20	.5625-18	.6250-18
A max — Height, max	.167	.188	.250	.250	.328	.360	.469	.469	.610	.705	.766
A min — Height, min	.133	.160	.219	.208	.240	.271	.318	.435	.575	.623	.732
B max — Across flats, max	.243	.305	.336	.367	.430	.492	.553	.679	.741	.865	.928
B min — Across flats, min	.243	.305	.336	.367	.430	.492	.553	.679	.741	.865	.928
C — Across corners, min	.268	.339	.374	.410	.482	.552	.622	.766	.837	.978	1.051
F — F, min	.044	.072	.091	.085	.116	.123	.153	.178	.221	.243	.274

Dimensions in inches, as tabulated for the part. Blank cells (—): not stated in the documents we hold; take them from the standard.

Part numbers

.1120-40 3 part numbers

Part no.	Version	Old AN number
MS21045-04	Carbon steel, no dry-film lubricant	AN363-440
MS21045L04	Carbon steel, dry-film lubricant	—
MS21045C04	Corrosion-resistant steel, dry-film lubricant	—

.1380-32 3 part numbers

Part no.	Version	Old AN number
MS21045-06	Carbon steel, no dry-film lubricant	AN363-632
MS21045L06	Carbon steel, dry-film lubricant	—
MS21045C06	Corrosion-resistant steel, dry-film lubricant	—

.1640-32 3 part numbers

Part no.	Version	Old AN number
MS21045-08	Carbon steel, no dry-film lubricant	AN363-832
MS21045L08	Carbon steel, dry-film lubricant	—
MS21045C08	Corrosion-resistant steel, dry-film lubricant	—

.1900-32 3 part numbers

Part no.	Version	Old AN number
MS21045-3	Carbon steel, no dry-film lubricant	AN363-1032
MS21045L3	Carbon steel, dry-film lubricant	—
MS21045C3	Corrosion-resistant steel, dry-film lubricant	—

.2500-28 3 part numbers

Part no.	Version	Old AN number
MS21045-4	Carbon steel, no dry-film lubricant	AN363-428
MS21045L4	Carbon steel, dry-film lubricant	—
MS21045C4	Corrosion-resistant steel, dry-film lubricant	—

.3125-24 3 part numbers

Part no.	Version	Old AN number
MS21045-5	Carbon steel, no dry-film lubricant	AN363-524
MS21045L5	Carbon steel, dry-film lubricant	—
MS21045C5	Corrosion-resistant steel, dry-film lubricant	—

.3750-24 3 part numbers

Part no.	Version	Old AN number
MS21045-6	Carbon steel, no dry-film lubricant	AN363-624
MS21045L6	Carbon steel, dry-film lubricant	—
MS21045C6	Corrosion-resistant steel, dry-film lubricant	—

.4375-20 3 part numbers

Part no.	Version	Old AN number
MS21045-7	Carbon steel, no dry-film lubricant	—
MS21045L7	Carbon steel, dry-film lubricant	—
MS21045C7	Corrosion-resistant steel, dry-film lubricant	—

.5000-20 3 part numbers

Part no.	Version	Old AN number
MS21045-8	Carbon steel, no dry-film lubricant	AN363-820
MS21045L8	Carbon steel, dry-film lubricant	—
MS21045C8	Corrosion-resistant steel, dry-film lubricant	—

Reference data. The aircraft manufacturer's documentation (SRM / IPC) takes precedence.

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.5625-18 2 part numbers

Part no.	Version	Old AN number
MS21045-9	Carbon steel, no dry-film lubricant	AN363-918
MS21045L9	Carbon steel, dry-film lubricant	—

.6250-18 2 part numbers

Part no.	Version	Old AN number
MS21045-10	Carbon steel, no dry-film lubricant	AN363-1018
MS21045L10	Carbon steel, dry-film lubricant	—

How to read the part number

Part	Meaning
Example	MS21045-4 — .2500-28 all-metal self-locking nut, carbon steel, 450 °F

Notes

- Thread to MIL-S-8879. L before the dash number: dry-film lubricant; C: corrosion-resistant steel, dry-film lubricant.
- B is printed with the same value for maximum and minimum in the listing.
- AN363-720 (.4375-20) is listed separately, with its own dimensions: A .469 / .453, B .615, C .705, F .178; the listing does not pair it with an MS21045 dash.
- Corrosion-resistant versions are listed for 4-40 to 1/2-20.
- Part number format as commonly written; check the standard for the exact format.
- Approved data governs. Use the nut the SRM, drawing or IPC calls for.

SOURCES · MS21045 — Nut, Self-Locking, Regular Height, All Metal, 450 °F

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/nuts/ms21045/

Reference data. The aircraft manufacturer's documentation (SRM / IPC) takes precedence.