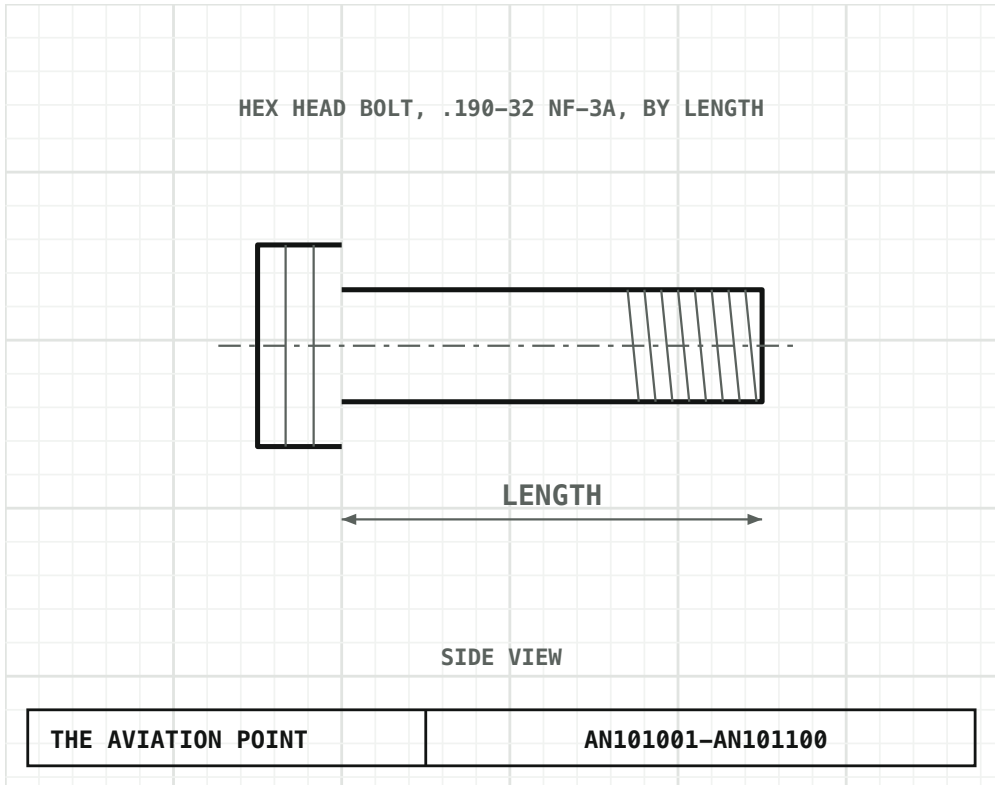
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AN101001-AN101100 — hex head bolt, .190-32 NF-3A, by length

AN101001-AN101100: .190-32 NF-3A hex head bolt, one part number per length, AN101006 to AN101043.



Engineering drawing · dimensions in inches

Specification

Item	Value
Type	Hexagon head bolt
Material	Steel AMS6322, hardness Rockwell C26-32; manufacturing specification AMS7452
Finish	Cadmium plate AMS2400
Status	Check the current issue before design use. Inactive for new design after 3 Mar 1969; no superseding standard.

Dimensions by size

Dimension, in	.190-32 NF-3A
Thread	.190-32 NF-3A
A max — A dia (shank), max	.189
A min — A dia (shank), min	.186
B max — B, max (across flats)	.376
B min — B, min (across flats)	.367
C — C, min (across corners)	.420
D — D (head height)	.125
W — W dia (bearing face, head chamfer 30°)	.375
E — E × 45°, approx (end chamfer)	.031

Dimensions in inches, from the drawing of the standard. L and K are the standard's letters; A, B, C, D, E and W are assigned on this datasheet.

Part numbers

.190-32 NF-3A 38 part numbers

Part no.	L, in	K to full thread, in
AN101006	.375	—
AN101007	.438	—
AN101008	.500	—
AN101009	.562	—
AN101010	.625	—
AN101011	.688	.125
AN101012	.750	.188
AN101013	.812	.250
AN101014	.875	.312
AN101015	.938	.375
AN101016	1.000	.438
AN101017	1.062	.500
AN101018	1.125	.562
AN101019	1.188	.625
AN101020	1.250	.688
AN101021	1.312	.750
AN101022	1.375	.812
AN101023	1.438	.875
AN101024	1.500	.938
AN101025	1.625	1.062
AN101026	1.750	1.188
AN101027	1.875	1.312
AN101028	2.000	1.438
AN101029	2.125	1.562
AN101030	2.250	1.688
AN101031	2.375	1.812
AN101032	2.500	1.938
AN101033	2.625	2.062
AN101034	2.750	2.188
AN101035	2.875	2.312
AN101036	3.000	2.438
AN101037	3.125	2.562
AN101038	3.250	2.688
AN101039	3.375	2.812
AN101040	3.500	2.938
AN101041	3.625	3.062
AN101042	3.750	3.188
AN101043	3.875	3.312

How to read the part number

Part	Meaning
Format	AN101<dash>
Example	AN101043 — Hex head bolt, .190-32 NF-3A, L 3.875, K 3.312

Notes

- Each part number is one length L; K is the length to full thread (+.000 −.060). Where K shows a dash, the thread runs to the head with two imperfect threads max. Do not use unassigned part numbers.

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

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- Shank straight within .004 FIR per inch of bolt length; thread pitch diameter concentric with the shank within .006 FIR; shank concentric with the washer face diameter and hexagon within .011 FIR.
- Bearing face square with the shank within .003 FIR; head chamfer 30° to the bearing face diameter (opposite side optional); fillet under the head R .005 to .015; max 2 imperfect threads.
- Thread per MIL-S-7742. Material identification per AMS2800, raised or depressed .010 max.
- All parts undergo magnetic inspection per AMS2640. Break sharp edges .003 to .015 unless otherwise specified. Unless otherwise specified: linear ±.010, angular ±2°.
- Approved data governs. Use the bolt the SRM, drawing or IPC calls for.

SOURCES · AN101001 thru AN101100 Rev. 3, 30 Jun 1986 — Bolt — Hex Head, .190-32

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/structural-bolts/an101001-an101100/

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