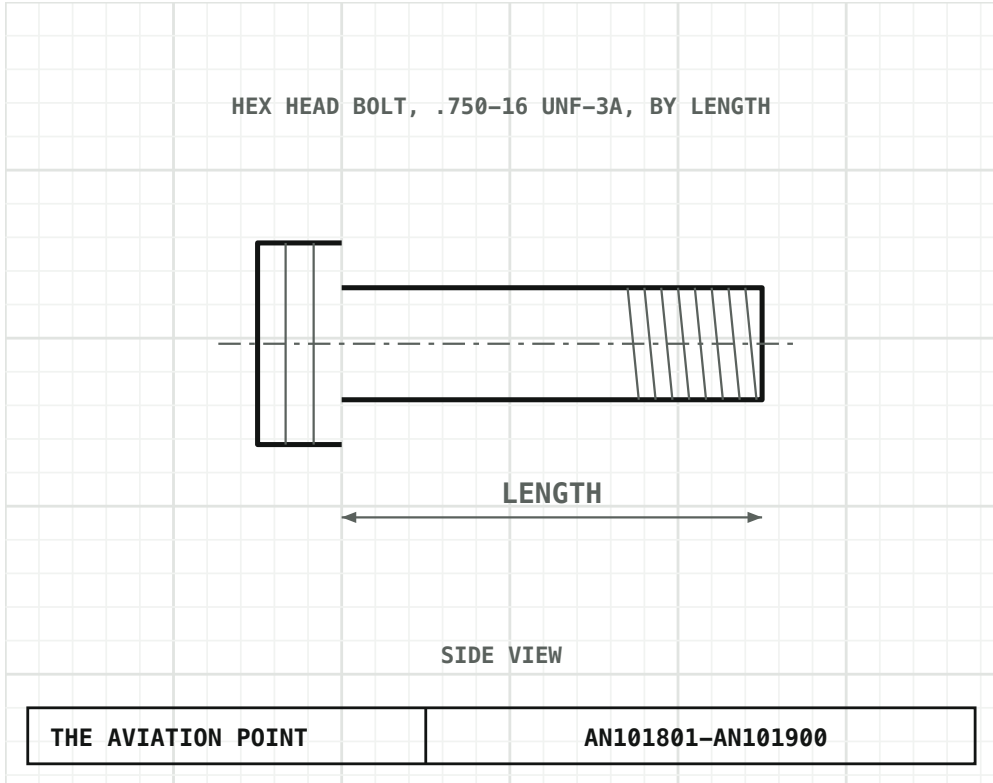
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The Aviation Point

AN101801-AN101900 — hex head bolt, .750-16 UNF-3A, by length

AN101801-AN101900: .750-16 UNF-3A hex head bolt, one part number per length, AN101806 to AN101850.



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. Cancelled as of 9 Oct 1987 (Rev. 3).

Dimensions by size

Dimension, in	.750-16 UNF-3A
Thread	.750-16 UNF-3A
A max — A dia (shank), max	.749
A min — A dia (shank), min	.744
B max — B, max (across flats)	1.064
B min — B, min (across flats)	1.052
C — C, min (across corners)	1.203
D — D (head height)	.406
W — W dia (bearing face, head chamfer 30°)	1.062
E — E × 45°, approx (end chamfer)	.062

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

.750-16 UNF-3A 45 part numbers

Part no.	L, in	K to full thread, in
AN101806	1.250	.125
AN101807	1.312	.188
AN101808	1.375	.250
AN101809	1.438	.312
AN101810	1.500	.375
AN101811	1.562	.438
AN101812	1.625	.500
AN101813	1.688	.562
AN101814	1.750	.625
AN101815	1.812	.688
AN101816	1.875	.750
AN101817	1.938	.812
AN101818	2.000	.875
AN101819	2.125	1.000
AN101820	2.250	1.125

Part no.	L, in	K to full thread, in
AN101821	2.375	1.250
AN101822	2.500	1.375
AN101823	2.625	1.500
AN101824	2.750	1.625
AN101825	2.875	1.750
AN101826	3.000	1.875
AN101827	3.125	2.000
AN101828	3.250	2.125
AN101829	3.375	2.250
AN101830	3.500	2.375
AN101831	3.625	2.500
AN101832	3.750	2.625
AN101833	3.875	2.750
AN101834	4.000	2.875
AN101835	4.125	3.000

Part no.	L, in	K to full thread, in
AN101836	4.250	3.125
AN101837	4.375	3.250
AN101838	4.500	3.375
AN101839	4.625	3.500
AN101840	4.750	3.625
AN101841	4.875	3.750
AN101842	5.000	3.875
AN101843	5.125	4.000
AN101844	5.250	4.125
AN101845	5.375	4.250
AN101846	5.500	4.375
AN101847	5.625	4.500
AN101848	5.750	4.625
AN101849	5.875	4.750
AN101850	6.000	4.875

How to read the part number

Part	Meaning
Format	AN101<dash>
Example	AN101850 — Hex head bolt, .750-16 UNF-3A, L 6.000, K 4.875

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

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Notes

- Each part number is one length L; K is the length to full thread (+.000 −.060). Do not use unassigned part numbers.
- Shank straight within .002 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 .032 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 · AN101801 thru AN101900 Rev. 3, 9 Oct 1987 — Bolt — Hex Head, .750-16

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/structural-bolts/an101801-an101900/

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

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