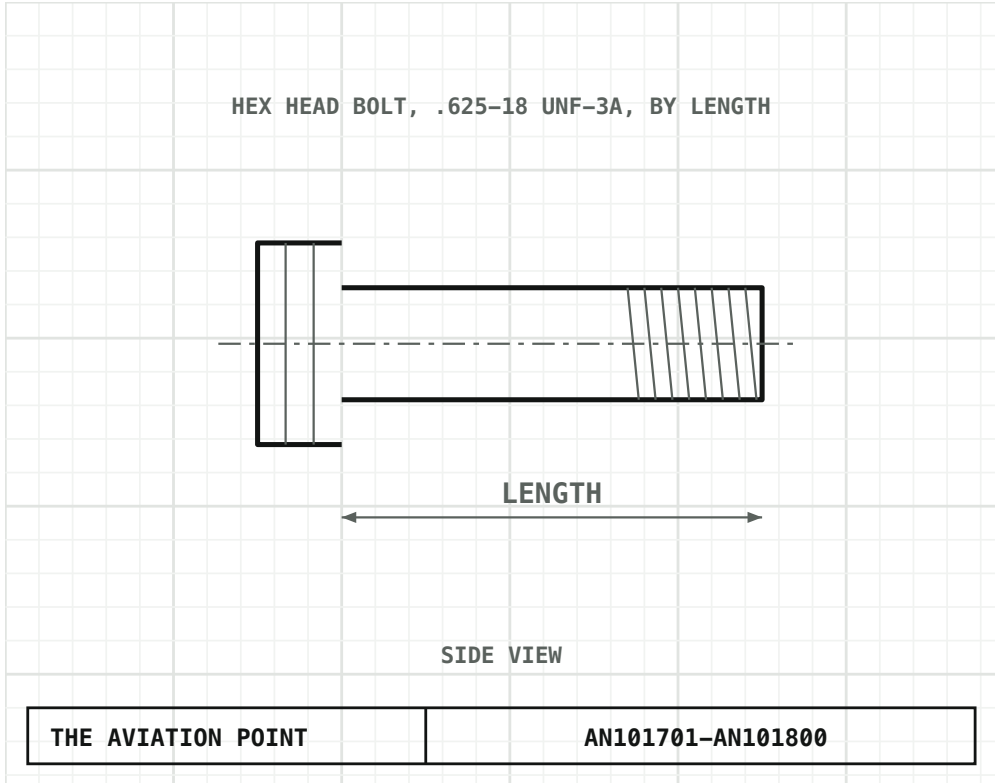
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AN101701-AN101800 — hex head bolt, .625-18 UNF-3A, by length

AN101701-AN101800: .625-18 UNF-3A hex head bolt, one part number per length, AN101706 to AN101751.



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	.625-18 UNF-3A
Thread	.625-18 UNF-3A
A max — A dia (shank), max	.624
A min — A dia (shank), min	.620
B max — B, max (across flats)	.940
B min — B, min (across flats)	.928
C — C, min (across corners)	1.061
D — D (head height)	.344
W — W dia (bearing face, head chamfer 30°)	.938
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

.625-18 UNF-3A 46 part numbers

Part no.	L, in	K to full thread, in
AN101706	1.125	.125
AN101707	1.188	.188
AN101708	1.250	.250
AN101709	1.312	.312
AN101710	1.375	.375
AN101711	1.438	.438
AN101712	1.500	.500
AN101713	1.562	.562
AN101714	1.625	.625
AN101715	1.688	.688
AN101716	1.750	.750
AN101717	1.812	.812
AN101718	1.875	.875
AN101719	2.000	1.000
AN101720	2.125	1.125
AN101721	2.250	1.250
AN101722	2.375	1.375
AN101723	2.500	1.500
AN101724	2.625	1.625
AN101725	2.750	1.750
AN101726	2.875	1.875
AN101727	3.000	2.000
AN101728	3.125	2.125
AN101729	3.250	2.250
AN101730	3.375	2.375
AN101731	3.500	2.500
AN101732	3.625	2.625
AN101733	3.750	2.750
AN101734	3.875	2.875
AN101735	4.000	3.000
AN101736	4.125	3.125
AN101737	4.250	3.250
AN101738	4.375	3.375
AN101739	4.500	3.500
AN101740	4.625	3.625
AN101741	4.750	3.750
AN101742	4.875	3.875
AN101743	5.000	4.000
AN101744	5.125	4.125
AN101745	5.250	4.250
AN101746	5.375	4.375
AN101747	5.500	4.500
AN101748	5.625	4.625
AN101749	5.750	4.750
AN101750	5.875	4.875
AN101751	6.000	5.000

How to read the part number

Part	Meaning
Format	AN101<dash>
Example	AN101751 — Hex head bolt, .625-18 UNF-3A, L 6.000, K 5.000

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 .028 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 · AN101701 thru AN101800 Rev. 3, 30 Jun 1986 — Bolt — Hex Head, .625-18

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/structural-bolts/an101701-an101800/

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

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