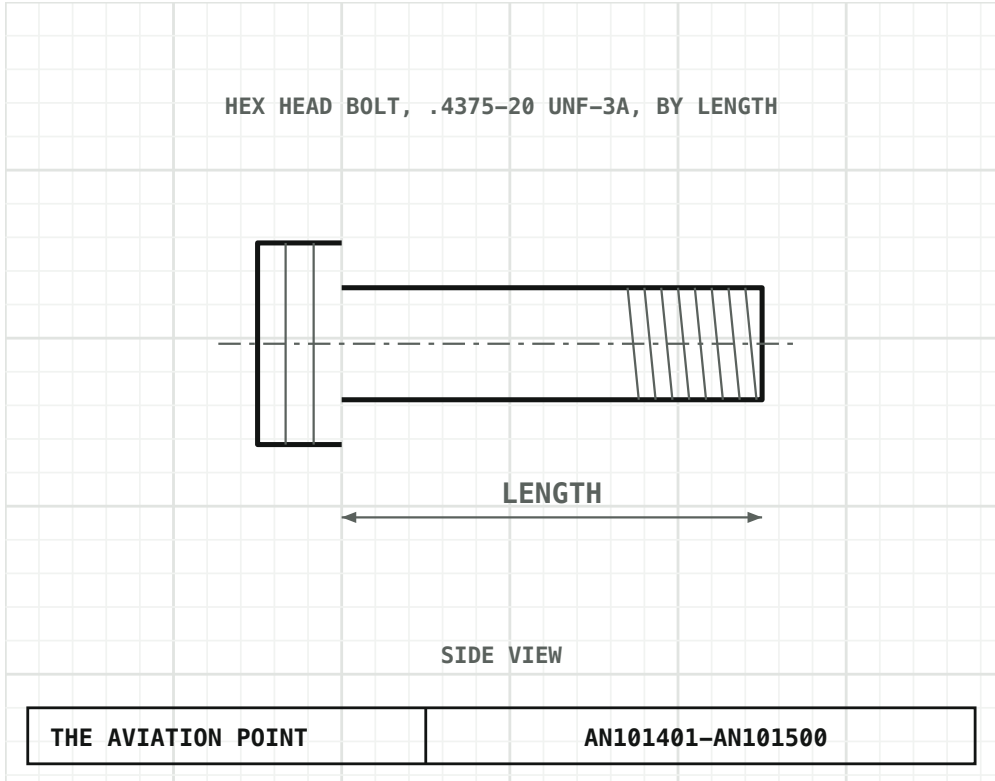
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AN101401-AN101500 — hex head bolt, .4375-20 UNF-3A, by length

AN101401-AN101500: .4375-20 UNF-3A hex head bolt, one part number per length, AN101406 to AN101455.



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	.4375-20 UNF-3A
Thread	.4375-20 UNF-3A
A max — A dia (shank), max	.437
A min — A dia (shank), min	.433
B max — B, max (across flats)	.627
B min — B, min (across flats)	.616
C — C, min (across corners)	.705
D — D (head height)	.250
W — W dia (bearing face, head chamfer 30°)	.625
E — E × 45°, approx (end chamfer)	.047

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

.4375-20 UNF-3A 50 part numbers

Part no.	L, in	K to full thread, in
AN101406	.812	—
AN101407	.875	—
AN101408	.938	.125
AN101409	1.000	.188
AN101410	1.062	.250
AN101411	1.125	.312
AN101412	1.188	.375
AN101413	1.250	.438
AN101414	1.312	.500
AN101415	1.375	.562
AN101416	1.438	.625
AN101417	1.500	.688
AN101418	1.562	.750
AN101419	1.625	.812
AN101420	1.688	.875
AN101421	1.750	.938
AN101422	1.875	1.062
AN101423	2.000	1.188
AN101424	2.125	1.312
AN101425	2.250	1.438
AN101426	2.375	1.562
AN101427	2.500	1.688
AN101428	2.625	1.812
AN101429	2.750	1.938
AN101430	2.875	2.062
AN101431	3.000	2.188
AN101432	3.125	2.312
AN101433	3.250	2.438
AN101434	3.375	2.562
AN101435	3.500	2.688
AN101436	3.625	2.812
AN101437	3.750	2.938
AN101438	3.875	3.062
AN101439	4.000	3.188
AN101440	4.125	3.312
AN101441	4.250	3.438
AN101442	4.375	3.562
AN101443	4.500	3.688
AN101444	4.625	3.812
AN101445	4.750	3.938
AN101446	4.875	4.062
AN101447	5.000	4.188
AN101448	5.125	4.312
AN101449	5.250	4.438
AN101450	5.375	4.562
AN101451	5.500	4.688
AN101452	5.625	4.812
AN101453	5.750	4.938
AN101454	5.875	5.062
AN101455	6.000	5.188

How to read the part number

Part	Meaning
Format	AN101<dash>
Example	AN101455 — Hex head bolt, .4375-20 UNF-3A, L 6.000, K 5.188

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). Where K shows a dash, the thread runs to the head with two imperfect threads max. Do not use unassigned part numbers.
- Shank straight within .0025 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 .019 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 · AN101401 thru AN101500 Rev. 3, 30 Jun 1986 — Bolt — Hex Head, .4375-20

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/structural-bolts/an101401-an101500/

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