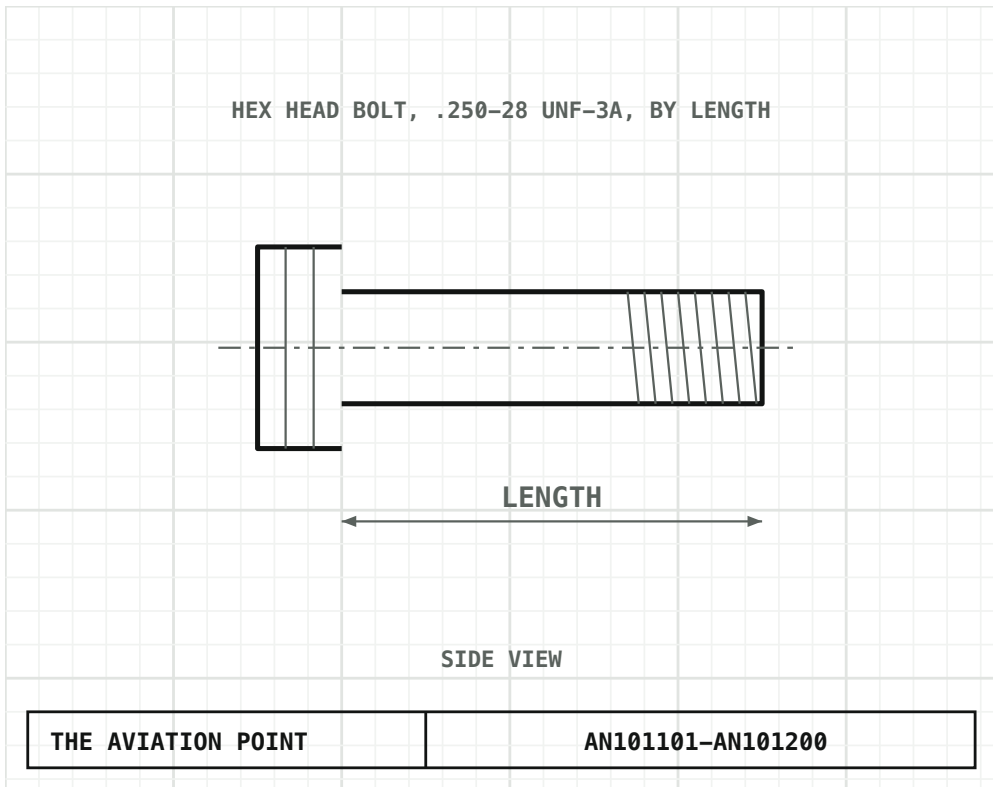
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AN101101-AN101200 — hex head bolt, .250-28 UNF-3A, by length

AN101101-AN101200: .250-28 UNF-3A hex head bolt, one part number per length, AN101106 to AN101160.



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	.250-28 UNF-3A
Thread	.250-28 UNF-3A
A max — A dia (shank), max	.249
A min — A dia (shank), min	.246
B max — B, max (across flats)	.439
B min — B, min (across flats)	.430
C — C, min (across corners)	.491
D — D (head height)	.156
W — W dia (bearing face, head chamfer 30°)	.438
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

.250-28 UNF-3A 55 part numbers

Part no.	L, in	K to full thread, in
AN101106	.500	—
AN101107	.562	—
AN101108	.625	—
AN101109	.688	—
AN101110	.750	.125
AN101111	.812	.188
AN101112	.875	.250
AN101113	.938	.312
AN101114	1.000	.375
AN101115	1.062	.438
AN101116	1.125	.500
AN101117	1.188	.562
AN101118	1.250	.625
AN101119	1.312	.688
AN101120	1.375	.750
AN101121	1.438	.812
AN101122	1.500	.875
AN101123	1.562	.938

Part no.	L, in	K to full thread, in
AN101124	1.625	1.000
AN101125	1.688	1.062
AN101126	1.750	1.125
AN101127	1.875	1.250
AN101128	2.000	1.375
AN101129	2.125	1.500
AN101130	2.250	1.625
AN101131	2.375	1.750
AN101132	2.500	1.875
AN101133	2.625	2.000
AN101134	2.750	2.125
AN101135	2.875	2.250
AN101136	3.000	2.375
AN101137	3.125	2.500
AN101138	3.250	2.625
AN101139	3.375	2.750
AN101140	3.500	2.875
AN101141	3.625	3.000
AN101142	3.750	3.125

Part no.	L, in	K to full thread, in
AN101143	3.875	3.250
AN101144	4.000	3.375
AN101145	4.125	3.500
AN101146	4.250	3.625
AN101147	4.375	3.750
AN101148	4.500	3.875
AN101149	4.625	4.000
AN101150	4.750	4.125
AN101151	4.875	4.250
AN101152	5.000	4.375
AN101153	5.125	4.500
AN101154	5.250	4.625
AN101155	5.375	4.750
AN101156	5.500	4.875
AN101157	5.625	5.000
AN101158	5.750	5.125
AN101159	5.875	5.250
AN101160	6.000	5.375

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

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How to read the part number

Part	Meaning
Format	AN101<dash>
Example	AN101160 — Hex head bolt, .250-28 UNF-3A, L 6.000, K 5.375

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 .003 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 .013 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 · AN101101 thru AN101200 Rev. 3, 30 Jun 1986 — Bolt — Hex Head, .250-28

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/structural-bolts/an101101-an101200/

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