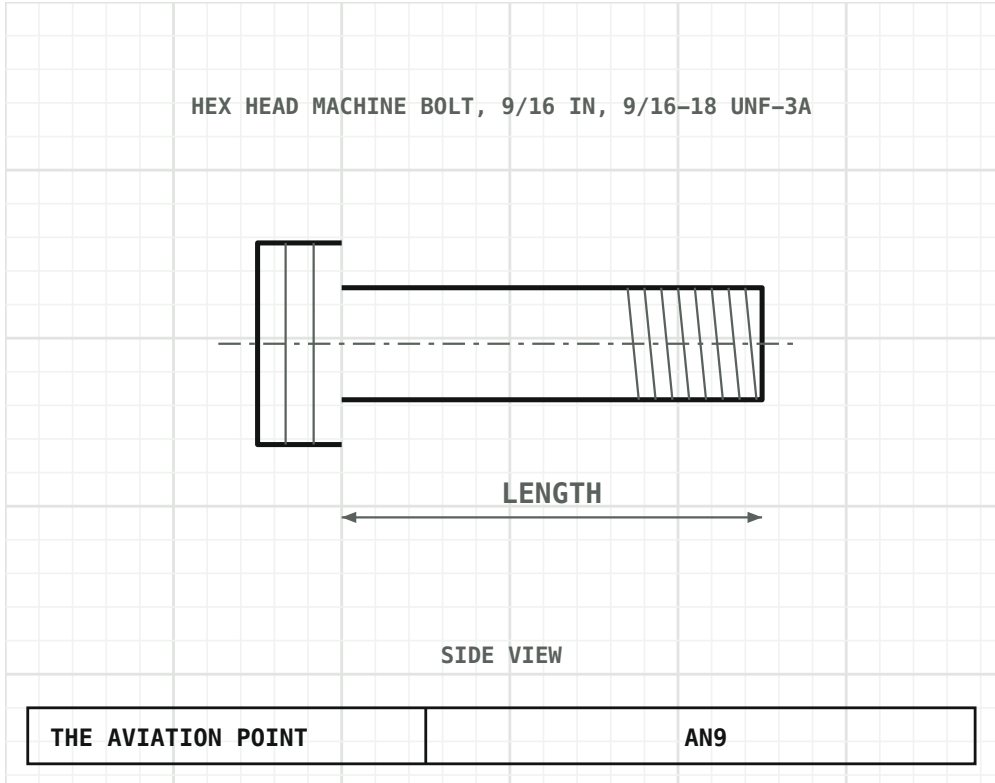
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AN9 — hex head machine bolt, 9/16 in, 9/16-18 UNF-3A

AN9: 9/16 in hex head machine bolt with a 9/16-18 UNF-3A thread.



Engineering drawing · dimensions in inches

Specification

Item	Value
Type	Hexagon head machine bolt
Material	Non-corrosion-resistant steel, corrosion-resistant steel or aluminum alloy; finish per the procurement specification
Status	Check the current issue before design use. Cancelled by Notice 1 (Dec 1999) and superseded by NASM3 thru NASM20; the notice states the part numbers are identical.

Dimensions by size

Dimension, in	9/16-18 UNF-3A
Thread	9/16-18 UNF-3A
A max — A dia, max	.562
A min — A dia, min	.558
B max — B, max (across flats)	.877
B min — B, min (across flats)	.865
C — C, ref (across corners)	1.010
D max — D, max (head height)	.328
D min — D, min (head height)	.296
H — H dia, min	.835
J — J drill (shank hole), +.010 -.000	.141
K — K drill (head hole), +.010 -.000	.070

Dimensions in inches, as tabulated in the standard (letters as on its drawing).

Part numbers

9/16-18 UNF-3A 59 part numbers

Part no.	Grip, in	Length, in
AN9-6	1/16	31/32
AN9-7	1/8	1-1/32
AN9-10	1/4	1-5/32
AN9-11	3/8	1-9/32
AN9-12	1/2	1-13/32
AN9-13	5/8	1-17/32
AN9-14	3/4	1-21/32
AN9-15	7/8	1-25/32
AN9-16	1	1-29/32
AN9-17	1-1/8	2-1/32
AN9-20	1-1/4	2-5/32
AN9-21	1-3/8	2-9/32
AN9-22	1-1/2	2-13/32
AN9-23	1-5/8	2-17/32
AN9-24	1-3/4	2-21/32
AN9-25	1-7/8	2-25/32
AN9-26	2	2-29/32
AN9-27	2-1/8	3-1/32
AN9-30	2-1/4	3-5/32

Part no.	Grip, in	Length, in
AN9-31	2-3/8	3-9/32
AN9-32	2-1/2	3-13/32
AN9-33	2-5/8	3-17/32
AN9-34	2-3/4	3-21/32
AN9-35	2-7/8	3-25/32
AN9-36	3	3-29/32
AN9-37	3-1/8	4-1/32
AN9-40	3-1/4	4-5/32
AN9-41	3-3/8	4-9/32
AN9-42	3-1/2	4-13/32
AN9-43	3-5/8	4-17/32
AN9-44	3-3/4	4-21/32
AN9-45	3-7/8	4-25/32
AN9-46	4	4-29/32
AN9-47	4-1/8	5-1/32
AN9-50	4-1/4	5-5/32
AN9-51	4-3/8	5-9/32
AN9-52	4-1/2	5-13/32
AN9-53	4-5/8	5-17/32
AN9-54	4-3/4	5-21/32

Part no.	Grip, in	Length, in
AN9-55	4-7/8	5-25/32
AN9-56	5	5-29/32
AN9-57	5-1/8	6-1/32
AN9-60	5-1/4	6-5/32
AN9-61	5-3/8	6-9/32
AN9-62	5-1/2	6-13/32
AN9-63	5-5/8	6-17/32
AN9-64	5-3/4	6-21/32
AN9-65	5-7/8	6-25/32
AN9-66	6	6-29/32
AN9-67	6-1/8	7-1/32
AN9-70	6-1/4	7-5/32
AN9-71	6-3/8	7-9/32
AN9-72	6-1/2	7-13/32
AN9-73	6-5/8	7-17/32
AN9-74	6-3/4	7-21/32
AN9-75	6-7/8	7-25/32
AN9-76	7	7-29/32
AN9-77	7-1/8	8-1/32
AN9-80	7-1/4	8-5/32

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

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How to read the part number

Part	Meaning
Format	AN9-<dash>
Example	AN9-6 — Non-corrosion-resistant steel bolt, 9/16 in, grip 1/16, length 31/32, drilled shank only

Notes

- Dash number sets the length and grip. Add C before the dash number for a corrosion-resistant steel bolt and DD for an aluminum alloy bolt; A after the dash number for an undrilled bolt; H before the dash number for a drilled head and shank; H before and A after for a drilled head only.
- Examples: AN9-10 is the non-corrosion-resistant steel bolt with a drilled shank only; AN9C10 is the corrosion-resistant steel bolt; AN9-10A is undrilled.
- Grip tolerance ±1/64 in; length tolerance +1/32 −1/64 in. Grip is measured from the underside of the head to the end of the full cylindrical portion of the shank; complete threads begin within two thread pitches at most.
- Part number format as commonly written; check the standard for the exact format.
- Approved data governs. Use the bolt the SRM, drawing or IPC calls for.

SOURCES · AN3 thru AN20 Rev. 12, 14 Jan 1991 — Bolt — Machine, Aircraft

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/structural-bolts/an9/

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