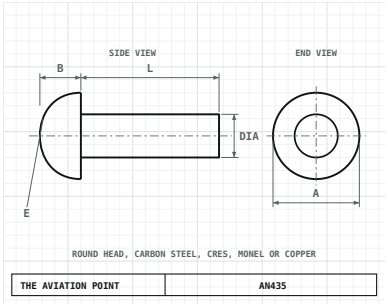
THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM

AN435 rivet — round head, carbon steel, CRES, Monel or copper

AN435: solid rivet with a round head, in carbon steel, corrosion-resistant steel, Monel or copper.



Engineering drawing · dimensions in inches

Specification

Item	Value
Type	Solid rivet, round head
Material	Carbon steel (C-1006 wire, QQ-W-409, or QQ-S-633 FS1010), corrosion-resistant steel (QQ-W-423, FS302 or FS304, condition A), Monel (QQ-N-281) or copper (QQ-W-341); annealed
Finish	Carbon steel, only when specified: cadmium plate (QQ-P-416) or zinc plate (QQ-Z-325)
Status	Inactive for design after 7 February 1958 (use MS20435). Cancelled after 3 March 1969: use MS20613 and MS20615.

Dimensions by size

Dimension, in	1/16	3/32	1/8	5/32	3/16	1/4	5/16	3/8	7/16
DIA — Shank diameter	.063	.094	.125	.156	.188	.250	.313	.375	.438
DIA tolerance	+.003 / -.004	+.003 / -.004	+.004 / -.004	+.004 / -.004	+.004 / -.006	+.004 / -.006	+.004 / -.008	+.005 / -.010	+.005 / -.010
A — Head diameter	.109	.166	.219	.273	.327	.438	.546	.656	.765
B — Head height	.047	.071	.094	.117	.140	.188	.234	.281	.328
E — Head radius	.056	.084	.111	.138	.166	.221	.276	.332	.387
C — Approx. material for full head	3/32	9/64	3/16	1/4	9/32	3/8	15/32	9/16	5/8

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

Part numbers

1/16 28 part numbers

Part no.	Material	Length, in
AN435-2-2	Carbon steel	1/8
AN435-2-3	Carbon steel	3/16
AN435-2-4	Carbon steel	1/4
AN435-2-5	Carbon steel	5/16
AN435-2-6	Carbon steel	3/8
AN435-2-7	Carbon steel	7/16
AN435-2-8	Carbon steel	1/2
AN435F2-2	Corrosion-resistant steel	1/8
AN435F2-3	Corrosion-resistant steel	3/16
AN435F2-4	Corrosion-resistant steel	1/4
AN435F2-5	Corrosion-resistant steel	5/16
AN435F2-6	Corrosion-resistant steel	3/8
AN435F2-7	Corrosion-resistant steel	7/16
AN435F2-8	Corrosion-resistant steel	1/2

1/8 45 part numbers

Part no.	Material	Length, in
AN435-4-3	Carbon steel	3/16
AN435-4-4	Carbon steel	1/4
AN435-4-5	Carbon steel	5/16
AN435-4-6	Carbon steel	3/8
AN435-4-7	Carbon steel	7/16
AN435-4-8	Carbon steel	1/2
AN435-4-10	Carbon steel	5/8
AN435-4-12	Carbon steel	3/4
AN435-4-14	Carbon steel	7/8
AN435-4-16	Carbon steel	1
AN435-4-20	Carbon steel	1-1/4
AN435-4-24	Carbon steel	1-1/2
AN435F4-3	Corrosion-resistant steel	3/16
AN435F4-4	Corrosion-resistant steel	1/4

3/16 54 part numbers

Part no.	Material	Length, in
AN435-6-4	Carbon steel	1/4
AN435-6-5	Carbon steel	5/16
AN435-6-6	Carbon steel	3/8
AN435-6-7	Carbon steel	7/16
AN435-6-8	Carbon steel	1/2
AN435-6-10	Carbon steel	5/8
AN435-6-12	Carbon steel	3/4
AN435-6-14	Carbon steel	7/8
AN435-6-16	Carbon steel	1
AN435-6-18	Carbon steel	1-1/8
AN435-6-20	Carbon steel	1-1/4
AN435-6-22	Carbon steel	1-3/8
AN435-6-24	Carbon steel	1-1/2
AN435-6-28	Carbon steel	1-3/4

3/32 38 part numbers

Part no.	Material	Length, in
AN435-3-3	Carbon steel	3/16
AN435-3-4	Carbon steel	1/4
AN435-3-5	Carbon steel	5/16
AN435-3-6	Carbon steel	3/8
AN435-3-7	Carbon steel	7/16
AN435-3-8	Carbon steel	1/2
AN435-3-10	Carbon steel	5/8
AN435-3-12	Carbon steel	3/4
AN435-3-14	Carbon steel	7/8
AN435-3-16	Carbon steel	1
AN435F3-3	Corrosion-resistant steel	3/16
AN435F3-4	Corrosion-resistant steel	1/4
AN435F3-5	Corrosion-resistant steel	5/16
AN435F3-6	Corrosion-resistant steel	3/8

5/32 42 part numbers

Part no.	Material	Length, in
AN435-5-4	Carbon steel	1/4
AN435-5-5	Carbon steel	5/16
AN435-5-6	Carbon steel	3/8
AN435-5-7	Carbon steel	7/16
AN435-5-8	Carbon steel	1/2
AN435-5-10	Carbon steel	5/8
AN435-5-12	Carbon steel	3/4
AN435-5-14	Carbon steel	7/8
AN435-5-16	Carbon steel	1
AN435-5-20	Carbon steel	1-1/4
AN435-5-24	Carbon steel	1-1/2
AN435-5-28	Carbon steel	1-3/4
AN435-5-32	Carbon steel	2
AN435F5-4	Corrosion-resistant steel	1/4

1/4 34 part numbers

Part no.	Material	Length, in
AN435-8-5	Carbon steel	5/16
AN435-8-6	Carbon steel	3/8
AN435-8-7	Carbon steel	7/16
AN435-8-8	Carbon steel	1/2
AN435-8-10	Carbon steel	5/8
AN435-8-12	Carbon steel	3/4
AN435-8-14	Carbon steel	7/8
AN435-8-16	Carbon steel	1
AN435-8-20	Carbon steel	1-1/4
AN435-8-24	Carbon steel	1-1/2
AN435-8-28	Carbon steel	1-3/4
AN435-8-32	Carbon steel	2
AN435F8-5	Corrosion-resistant steel	5/16
AN435F8-6	Corrosion-resistant steel	3/8

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

THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM

THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT

5/16 16 part numbers

Part no.	Material	Length, in
AN435-10-10	Carbon steel	5/8
AN435-10-12	Carbon steel	3/4
AN435-10-14	Carbon steel	7/8
AN435-10-16	Carbon steel	1
AN435-10-20	Carbon steel	1-1/4
AN435-10-24	Carbon steel	1-1/2
AN435-10-28	Carbon steel	1-3/4
AN435-10-32	Carbon steel	2
AN435F10-10	Corrosion-resistant steel	5/8
AN435F10-12	Corrosion-resistant steel	3/4
AN435F10-14	Corrosion-resistant steel	7/8
AN435F10-16	Corrosion-resistant steel	1
AN435F10-20	Corrosion-resistant steel	1-1/4
AN435F10-24	Corrosion-resistant steel	1-1/2

3/8 14 part numbers

Part no.	Material	Length, in
AN435-12-12	Carbon steel	3/4
AN435-12-14	Carbon steel	7/8
AN435-12-16	Carbon steel	1
AN435-12-20	Carbon steel	1-1/4
AN435-12-24	Carbon steel	1-1/2
AN435-12-28	Carbon steel	1-3/4
AN435-12-32	Carbon steel	2
AN435F12-12	Corrosion-resistant steel	3/4
AN435F12-14	Corrosion-resistant steel	7/8
AN435F12-16	Corrosion-resistant steel	1
AN435F12-20	Corrosion-resistant steel	1-1/4
AN435F12-24	Corrosion-resistant steel	1-1/2
AN435F12-28	Corrosion-resistant steel	1-3/4
AN435F12-32	Corrosion-resistant steel	2

7/16 10 part numbers

Part no.	Material	Length, in
AN435-14-16	Carbon steel	1
AN435-14-20	Carbon steel	1-1/4
AN435-14-24	Carbon steel	1-1/2
AN435-14-28	Carbon steel	1-3/4
AN435-14-32	Carbon steel	2
AN435F14-16	Corrosion-resistant steel	1
AN435F14-20	Corrosion-resistant steel	1-1/4
AN435F14-24	Corrosion-resistant steel	1-1/2
AN435F14-28	Corrosion-resistant steel	1-3/4
AN435F14-32	Corrosion-resistant steel	2

Showing 122 of 281 rows. Complete table: theaviationpoint.com/parts/solid-rivets/an435/

How to read the part number

Part	Meaning
Format	AN435<material><dash>
-	Material: Carbon steel
F	Material: Corrosion-resistant steel
C	Material: Copper
M	Material: Monel
Example	AN435M2-2 — Monel, 2/32 in diameter, 2/16 in long

Notes

- **Cancelled: use MS20613 / MS20615.** AN435 is cancelled (Inactive for design after 7 February 1958 (use MS20435); cancelled after 3 March 1969: use MS20613 and MS20615.). Replacement named by the standard: MS20613, MS20615. The old number AN435-2-2 still turns up on drawings and IPCs: check the replacement for each part before you order.
- Dash number: diameter in 32nds of an inch, then length in 16ths. Carbon steel and corrosion-resistant steel share one table of sizes.
- In place of the first dash: C copper, F corrosion-resistant steel, M Monel. Carbon steel: add P after the last dash number for cadmium or zinc plate (AN435-2-2P), or in place of the last dash C cadmium plated (AN435-2C2), Z zinc plated (AN435-2Z2), U unplated (AN435-2U2). Monel, cadmium plated: AN435M2C2.
- Shear strength: AN435F 45,000 to 55,000 psi; AN435M 49,000 to 59,000 psi.
- Head marking: recessed triangle on mild steel rivets only.
- Rivets shall drive cold satisfactorily with a full head free from cracks, true to form, concentric and free from injurious scale, fins and seams.
- Approved data governs. Use the rivet the SRM, drawing or IPC calls for.

SOURCES · AN435 Rev. 7, 3 Mar 1969 — Rivet, Round Head, Steel, Monel and Copper

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/solid-rivets/an435/

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