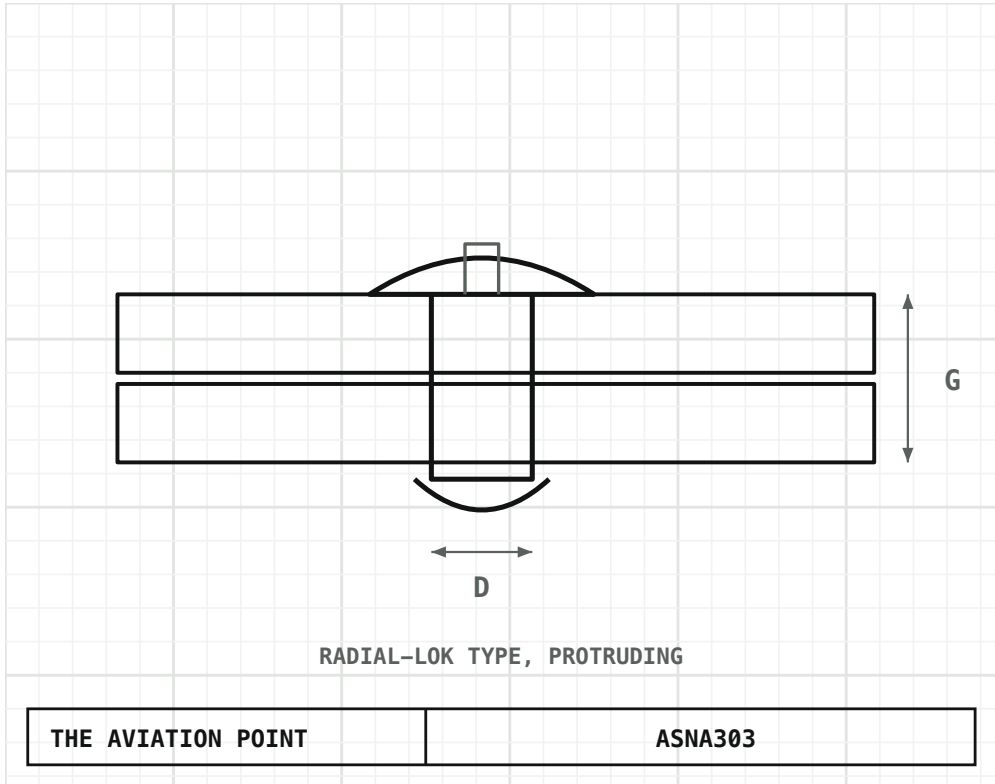
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ASNA303 — Radial-Lok type, protruding

Blind bolt, Radial-Lok type, titanium, for composite structure, protruding head, as the ASNA standard gives it: diameter and grip codes, hole and drill, tools and the gauge check.



Engineering drawing · dimensions in inches and millimetres

Specification

Item	Value
Type	Blind bolt, titanium, for composite structure
Material	Titanium (the material letter S is printed without a meaning)
Locking	Radial-Lok-type titanium blind bolt
Finish	Not stated in the standard data
Status	Reference data transcribed from the standard, units marked row by row. Check the issue of the standard in force before design use.

Dimensions by size

Dimension, inch first (mm after)	-05	-06	-08
Nominal Ø (code)	5/32 in	3/16 in	1/4 in
Fastener Ø †	0.1645 in (4.178 mm†)	0.1985 in (5.041 mm†)	0.2595 in (6.591 mm†)
Hole †	0.165–0.168 in (4.191–4.267 mm†)	0.199–0.202 in (5.054–5.130 mm†)	0.260–0.263 in (6.604–6.680 mm†)
Drill (chart)	#19 (0.1660 in; 4.22 mm)	#7 (0.2010 in; 5.11 mm)	G (0.2610 in; 6.63 mm)

Units: no mark = printed in mm and stated by the standard. † = printed with no unit; the inch value is our conversion, reading the figure as mm. Nominal Ø is our reading of the inch code (1/32 in for diameters, 1/16 in for grips). Drill: from the site drill chart, inside the hole range.

Part numbers

-05 · 5/32 in nominal 10 part numbers

Part no.	Grip, in (mm converted)
ASNA303S05100	0.050–0.125 (1.27–3.18)
ASNA303S05200	0.125–0.225 (3.18–5.72)
ASNA303S05300	0.225–0.325 (5.72–8.26)
ASNA303S05400	0.325–0.425 (8.26–10.80)
ASNA303S05500	0.425–0.525 (10.80–13.34)
ASNA303S05600	0.525–0.625 (13.34–15.88)
ASNA303S05700	0.625–0.725 (15.88–18.42)
ASNA303S05800	0.725–0.825 (18.42–20.96)
ASNA303S05900	0.826–0.925 (20.97–23.50)
ASNA303S051000	0.925–1.025 (23.50–26.04)

-06 · 3/16 in nominal 10 part numbers

Part no.	Grip, in (mm converted)
ASNA303S06100	0.050–0.125 (1.27–3.18)
ASNA303S06200	0.125–0.225 (3.18–5.72)
ASNA303S06300	0.225–0.325 (5.72–8.26)
ASNA303S06400	0.325–0.425 (8.26–10.80)
ASNA303S06500	0.425–0.525 (10.80–13.34)
ASNA303S06600	0.525–0.625 (13.34–15.88)
ASNA303S06700	0.625–0.725 (15.88–18.42)
ASNA303S06800	0.725–0.825 (18.42–20.96)
ASNA303S06900	0.826–0.925 (20.97–23.50)
ASNA303S061000	0.925–1.025 (23.50–26.04)

-08 · 1/4 in nominal 10 part numbers

Part no.	Grip, in (mm converted)
ASNA303S08100	0.050–0.125 (1.27–3.18)
ASNA303S08200	0.125–0.225 (3.18–5.72)
ASNA303S08300	0.225–0.325 (5.72–8.26)
ASNA303S08400	0.325–0.425 (8.26–10.80)
ASNA303S08500	0.425–0.525 (10.80–13.34)
ASNA303S08600	0.525–0.625 (13.34–15.88)
ASNA303S08700	0.625–0.725 (15.88–18.42)
ASNA303S08800	0.725–0.825 (18.42–20.96)
ASNA303S08900	0.826–0.925 (20.97–23.50)
ASNA303S081000	0.925–1.025 (23.50–26.04)

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How to read the part number

ASNA303 S 08 100

- **ASNA standard** — Radial-Lok type
- **Material** — S = meaning not printed
- **Diameter** — in 1/32": 08 = 1/4"
- **Grip** — in 0.001": 100 = 0.050–0.125"

Segment	Reads as	Unit of the code · from
ASNA303 Standard	Radial-Lok type titanium blind bolt. Head: protruding.	None: the number of the standard · The standard
S Material	Material code S, printed without a meaning in the standard	Letter, no unit · Letter printed by the standard; its meaning is not printed
08 Diameter	1/4 in nominal, worked out from the fastener and hole figures; fastener diameter 0.260 in · 6.591 mm (read as mm); hole 0.260–0.263 in · 6.604–6.68 mm (read as mm).	1/32 in by its nominal, worked out from the fastener and hole figures (our reading) · Fastener-diameter and hole table (Dimensions by size, above)
100 Grip	Code − 0.075 to code + 0.025 in: 0.050–0.125 in (first code 100: 0.050–0.125 in); stack 0.050–0.125 in · 1.27–3.18 mm (read as mm).	Thousandths of an inch: code − 0.075 to code + 0.025 in, 0.100 in steps (first code 100: 0.050–0.125 in) (our inference: the standard prints no unit) · Grip table (Part numbers, above)

ASNA303S08100 reads: **ASNA303** Radial-Lok-type titanium blind bolt for composite structure, protruding · **S** meaning not printed · **08** 1/4 in, hole 6.604–6.68 mm, drill G · **100** 0.050–0.125 in, stack 1.27–3.18 mm.

Tools

Tool	Use
MP550RL	pneumatic pistol-grip installation tool
MRT300	pneumatic 90° tool for restricted access

Inspection

Head	Check
100° countersunk	Cylindrical double-ended gauge with ends marked H and L; the break is accepted between them
Protruding	Flat plate (fork) gauge resting on the structure each side of the head

Gauge limits are not published here: the standard prints them with no unit and the readings disagree between diameters.

Notes

- Part number: ASNA303 + material code + two-digit diameter code (05, 06, 08) + grip code of three or four digits. The rows show code S.
- Grip code: code N covers N–75 to N+25 thousandths of an inch. Our reading, drawn from the computed ranges: the standard prints values like these with no unit. Inch is the origin of the ranges.
- The mm hole values equal the inch sizes exactly (0.165 in = 4.191 mm), so the inch figures are probably the origin; no unit is printed.
- Units: no mark = printed in mm and stated by the standard. † = printed with no unit; the inch value is our conversion, reading the figure as mm. Nominal Ø is our reading of the inch code (1/32 in for diameters, 1/16 in for grips). Drill: from the site drill chart, inside the hole range.

SOURCES · ASNA303 standard · US federal item records and distributor listings

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/blind-fasteners/asna303/