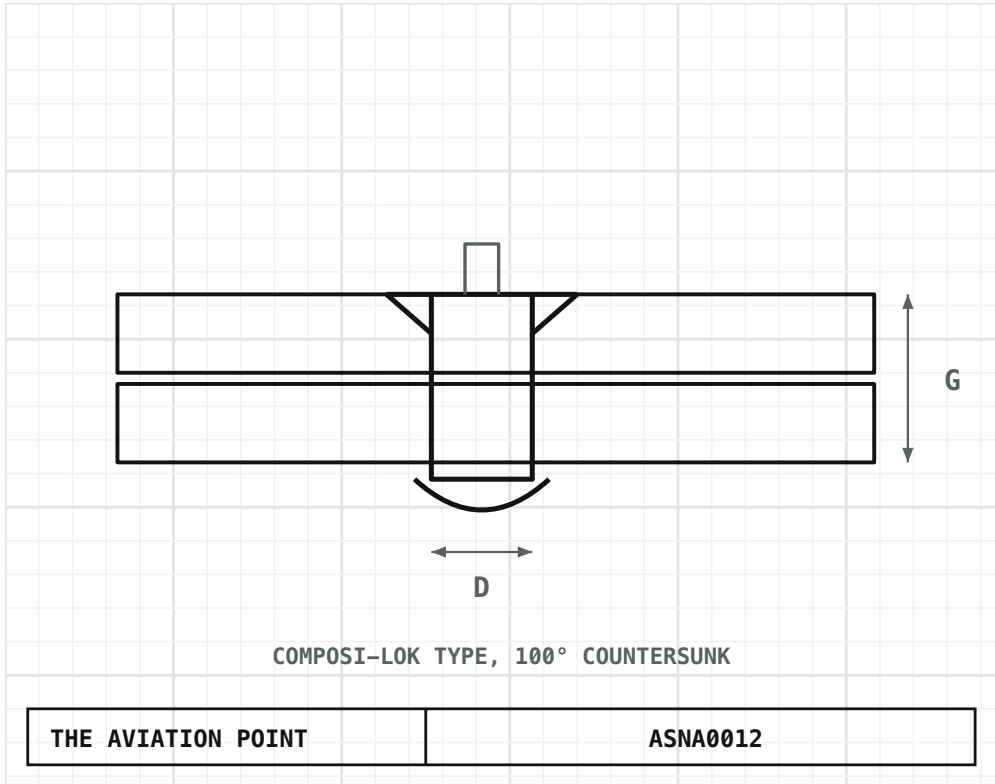
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ASNA0012 — Composi-Lok type, 100° countersunk

Blind bolt, Composi-Lok type, titanium, for composite structure, 100° countersunk 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	Composi-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 22 part numbers

Part no.	Grip, in (mm converted)
ASNA0012S05150	0.100–0.150 (2.54–3.81)
ASNA0012S05200	0.150–0.200 (3.81–5.08)
ASNA0012S05250	0.200–0.249 (5.08–6.33)
ASNA0012S05300	0.250–0.300 (6.35–7.62)
ASNA0012S05350	0.300–0.350 (7.62–8.89)
ASNA0012S05400	0.350–0.400 (8.89–10.16)
ASNA0012S05450	0.400–0.450 (10.16–11.43)
ASNA0012S05500	0.450–0.500 (11.43–12.70)
ASNA0012S05550	0.500–0.550 (12.70–13.97)
ASNA0012S05600	0.550–0.600 (13.97–15.24)
ASNA0012S05650	0.600–0.650 (15.24–16.51)
ASNA0012S05700	0.650–0.700 (16.51–17.78)
ASNA0012S05750	0.700–0.750 (17.78–19.05)
ASNA0012S05800	0.750–0.800 (19.05–20.32)
ASNA0012S05850	0.800–0.850 (20.32–21.59)
ASNA0012S05900	0.850–0.900 (21.59–22.86)
ASNA0012S05950	0.900–0.950 (22.86–24.13)
ASNA0012S051000	0.950–1.000 (24.13–25.40)
ASNA0012S051050	1.000–1.050 (25.40–26.67)
ASNA0012S051100	1.050–1.100 (26.67–27.94)
ASNA0012S051150	1.100–1.150 (27.94–29.21)
ASNA0012S051200	1.150–1.200 (29.21–30.48)

-06 · 3/16 in nominal 22 part numbers

Part no.	Grip, in (mm converted)
ASNA0012S06150	0.100–0.150 (2.54–3.81)
ASNA0012S06200	0.150–0.200 (3.81–5.08)
ASNA0012S06250	0.200–0.249 (5.08–6.33)
ASNA0012S06300	0.250–0.300 (6.35–7.62)
ASNA0012S06350	0.300–0.350 (7.62–8.89)
ASNA0012S06400	0.350–0.400 (8.89–10.16)
ASNA0012S06450	0.400–0.450 (10.16–11.43)
ASNA0012S06500	0.450–0.500 (11.43–12.70)
ASNA0012S06550	0.500–0.550 (12.70–13.97)
ASNA0012S06600	0.550–0.600 (13.97–15.24)
ASNA0012S06650	0.600–0.650 (15.24–16.51)
ASNA0012S06700	0.650–0.700 (16.51–17.78)
ASNA0012S06750	0.700–0.750 (17.78–19.05)
ASNA0012S06800	0.750–0.800 (19.05–20.32)
ASNA0012S06850	0.800–0.850 (20.32–21.59)
ASNA0012S06900	0.850–0.900 (21.59–22.86)
ASNA0012S06950	0.900–0.950 (22.86–24.13)
ASNA0012S061000	0.950–1.000 (24.13–25.40)
ASNA0012S061050	1.000–1.050 (25.40–26.67)
ASNA0012S061100	1.050–1.100 (26.67–27.94)
ASNA0012S061150	1.100–1.150 (27.94–29.21)
ASNA0012S061200	1.150–1.200 (29.21–30.48)

-08 · 1/4 in nominal 22 part numbers

Part no.	Grip, in (mm converted)
ASNA0012S08150	0.100–0.150 (2.54–3.81)
ASNA0012S08200	0.150–0.200 (3.81–5.08)
ASNA0012S08250	0.200–0.249 (5.08–6.33)
ASNA0012S08300	0.250–0.300 (6.35–7.62)
ASNA0012S08350	0.300–0.350 (7.62–8.89)
ASNA0012S08400	0.350–0.400 (8.89–10.16)
ASNA0012S08450	0.400–0.450 (10.16–11.43)
ASNA0012S08500	0.450–0.500 (11.43–12.70)
ASNA0012S08550	0.500–0.550 (12.70–13.97)
ASNA0012S08600	0.550–0.600 (13.97–15.24)
ASNA0012S08650	0.600–0.650 (15.24–16.51)
ASNA0012S08700	0.650–0.700 (16.51–17.78)
ASNA0012S08750	0.700–0.750 (17.78–19.05)
ASNA0012S08800	0.750–0.800 (19.05–20.32)
ASNA0012S08850	0.800–0.850 (20.32–21.59)
ASNA0012S08900	0.850–0.900 (21.59–22.86)
ASNA0012S08950	0.900–0.950 (22.86–24.13)
ASNA0012S081000	0.950–1.000 (24.13–25.40)
ASNA0012S081050	1.000–1.050 (25.40–26.67)
ASNA0012S081100	1.050–1.100 (26.67–27.94)
ASNA0012S081150	1.100–1.150 (27.94–29.21)
ASNA0012S081200	1.150–1.200 (29.21–30.48)

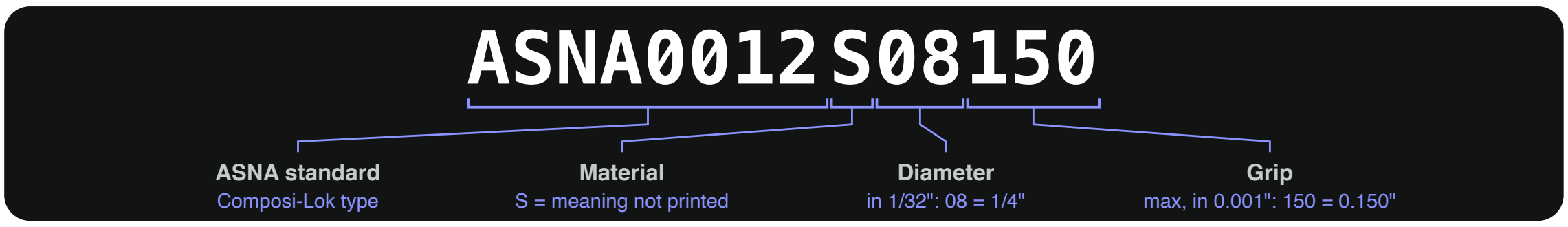
Reference data. The aircraft manufacturer's documentation (SRM / IPC) takes precedence.

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How to read the part number



Segment	Reads as	Unit of the code · from
ASNA0012 Standard	Composi-Lok type titanium blind bolt. Head: 100° countersunk.	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)
150 Grip	Max grip 0.150 in; stack 0.100–0.150 in · 2.54–3.81 mm (read as mm).	Thousandths of an inch, maximum grip (our inference: the standard prints no unit) · Grip table (Part numbers, above)

ASNA0012S08150 reads: **ASNA0012** Composi-Lok-type titanium blind bolt for composite structure, 100° countersunk · **S** meaning not printed · **08** 1/4 in, hole 6.604–6.68 mm, drill G · **150** max 0.150 in, stack 2.54–3.81 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: ASNA0012 + material code + two-digit diameter code (05, 06, 08) + grip code of three or four digits. The rows show code S.
- Grip code: code = maximum grip in 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 · ASNA0012 standard · US federal item records and distributor listings

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/blind-fasteners/asna0012/

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