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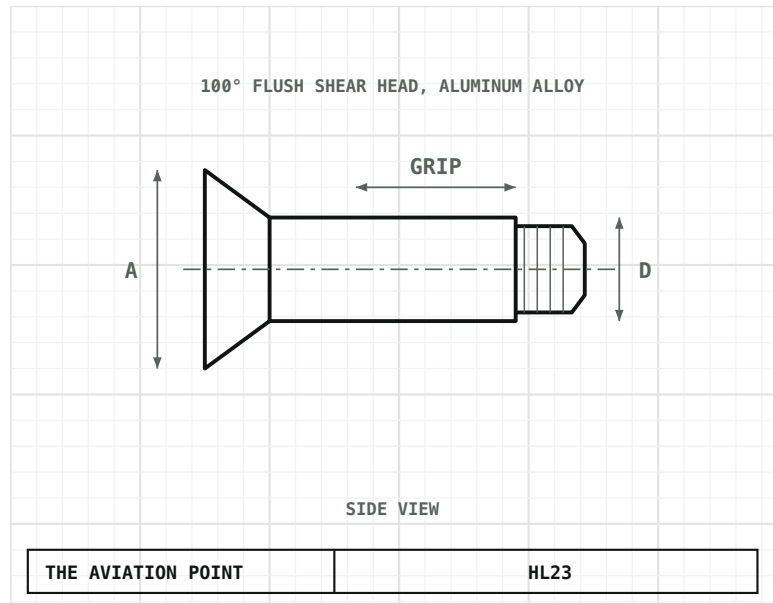


# HL23 pin — 100° flush shear head, aluminum alloy

Hi-Lok Pin, 100° Flush Shear Head, Aluminum Alloy: dimensions by size, strength and every listed part number.



HL23




Engineering drawing · dimensions in inches

## Specification

| Item | Value |
|---|---|
| Type | Hi-Lok pin, 100° flush shear head, aluminum |
| Material | Aluminum alloy (7075-T6 per the catalogue quick-reference chart) |
| Strength | 45,000 psi shear strength |
| Status | Check the current issue before design use. |

## Dimensions by size

| Dimension, in | 8-32UNJC-3A Modified | 10-32-UNJF-3A Modified |
|---|---|---|
| Nominal diameter | 5/32 | 3/16 |
| A — Head diameter (max / min) | .2922 - .2874 | .3536 - .3486 |
| B — Ref. (see drawing) | .312 | .325 |
| D — Shank diameter (max / min) | .1635 - .1625 | .1895 - .1885 |
| TD — Threaded-end diameter (max / min) | .1595 - .1570 | .1840 - .1810 |
| H — H (max / min, see drawing) | .0540 - .0520 | .0688 - .0667 |
| Thread | 8-32UNJC-3A Modified | 10-32-UNJF-3A Modified |
| Double shear, lb min | 1,700 | 2,540 |
| Tension, lb min | 860 | 1,150 |

Dimensions as tabulated in the catalogue, by first dash number (nominal diameter). Max - min where a tolerance is shown.

## Part numbers

**5/32** 9 part numbers

| Part no. | Max grip, in |
|---|---|
| HL23-5-2 | 1/8 |
| HL23-5-3 | 3/16 |
| HL23-5-4 | 1/4 |
| HL23-5-5 | 5/16 |
| HL23-5-6 | 3/8 |
| HL23-5-7 | 7/16 |
| HL23-5-8 | 1/2 |
| HL23-5-9 | 9/16 |
| HL23-5-10 | 5/8 |

## How to read the part number

| Part | Meaning |
|---|---|
| Format | HL23-<dash> |
| Example | HL23-5-2 — 5/32 nominal diameter, max grip 1/8 in |

## Notes

- 1/16 in grip variation.
- Approved data governs. Use the pin the drawing, SRM or IPC calls for.
- Grip: the number after the second dash is the max grip in 1/16 in (dash -2 = 1/8 in, -3 = 3/16 in, and so on). Maximum-minimum values are shown as max - min.
- Collars listed for this pin in the catalogue quick-reference chart: HL77.
- The 3/16 nominal diameter (first dash -6) part numbers are not listed: the source column reprints the -5 numbers, so the grip table covers -5 only.

**SOURCES** · HL23 — Hi-Lok Pin, 100° Flush Shear Head, Aluminum Alloy

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/hi-lok/hl23/



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