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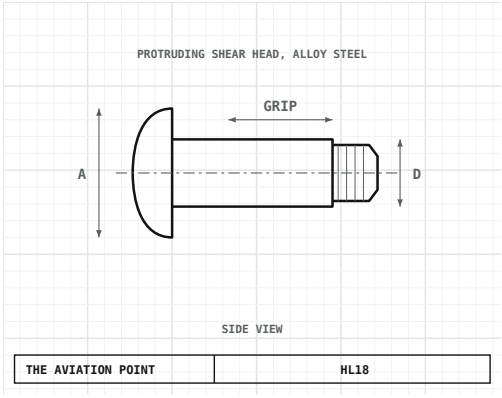


# HL18 pin — protruding shear head, alloy steel

Hi-Lok Pin, Protruding Shear Head, Alloy Steel: dimensions by size, strength and every listed part number.



HL18




Engineering drawing · dimensions in inches

## Specification

| Item | Value |
|---|---|
| Type | Hi-Lok pin, protruding shear head |
| Material | Alloy steel |
| Strength | 95,000 psi shear min.; 160,000-180,000 psi tensile |
| Status | Check the current issue before design use. |

## Dimensions by size

| Dimension, in | 8-32UNJC-3A Modified | 10-32-UNJF-3A Modified | 1/4-28UNJF-3A Modified |
|---|---|---|---|
| Nominal diameter | 5/32 | 3/16 | 1/4 |
| A — Head diameter (max / min) | .262 - .242 | .315 - .295 | .412 - .387 |
| B — Ref. (see drawing) | .312 | .325 | .395 |
| D — Shank diameter (max / min) | .1635 - .1625 | .1895 - .1885 | .2495 - .2485 |
| TD — Threaded-end diameter (max / min) | .1595 - .1570 | .1840 - .1810 | .2440 - .2410 |
| G — G, ref. | .020 | .025 | .030 |
| H — H (max / min, see drawing) | .047 - .037 | .055 - .045 | .069 - .059 |
| Thread | 8-32UNJC-3A Modified | 10-32-UNJF-3A Modified | 1/4-28UNJF-3A Modified |
| Double shear, lb min | 4,010 | 5,380 | 9,300 |
| Tension, lb min | 1,940 | 2,500 | 4,300 |

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

## Part numbers

**5/32** 15 part numbers

| Part no. | Max grip, in |
|---|---|
| HL18PB5-2 | 1/8 |
| HL18PB5-3 | 3/16 |
| HL18PB5-4 | 1/4 |
| HL18PB5-5 | 5/16 |
| HL18PB5-6 | 3/8 |
| HL18PB5-7 | 7/16 |
| HL18PB5-8 | 1/2 |
| HL18PB5-9 | 9/16 |
| HL18PB5-10 | 5/8 |
| HL18PB5-11 | 11/16 |
| HL18PB5-12 | 3/4 |
| HL18PB5-13 | 13/16 |
| HL18PB5-14 | 7/8 |
| HL18PB5-15 | 15/16 |
| HL18PB5-16 | 1 |

**3/16** 15 part numbers

| Part no. | Max grip, in |
|---|---|
| HL18PB6-2 | 1/8 |
| HL18PB6-3 | 3/16 |
| HL18PB6-4 | 1/4 |
| HL18PB6-5 | 5/16 |
| HL18PB6-6 | 3/8 |
| HL18PB6-7 | 7/16 |
| HL18PB6-8 | 1/2 |
| HL18PB6-9 | 9/16 |
| HL18PB6-10 | 5/8 |
| HL18PB6-11 | 11/16 |
| HL18PB6-12 | 3/4 |
| HL18PB6-13 | 13/16 |
| HL18PB6-14 | 7/8 |
| HL18PB6-15 | 15/16 |
| HL18PB6-16 | 1 |

**1/4** 15 part numbers

| Part no. | Max grip, in |
|---|---|
| HL18PB8-2 | 1/8 |
| HL18PB8-3 | 3/16 |
| HL18PB8-4 | 1/4 |
| HL18PB8-5 | 5/16 |
| HL18PB8-6 | 3/8 |
| HL18PB8-7 | 7/16 |
| HL18PB8-8 | 1/2 |
| HL18PB8-9 | 9/16 |
| HL18PB8-10 | 5/8 |
| HL18PB8-11 | 11/16 |
| HL18PB8-12 | 3/4 |
| HL18PB8-13 | 13/16 |
| HL18PB8-14 | 7/8 |
| HL18PB8-15 | 15/16 |
| HL18PB8-16 | 1 |

## How to read the part number

| Part | Meaning |
|---|---|
| Format | HL18PB<dash> |
| Example | HL18PB5-2 — 5/32 nominal diameter, max grip 1/8 in |



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

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## Notes

- 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: HL70, HL79, HL82, HL94.

**SOURCES** · HL18 — Hi-Lok Pin, Protruding Shear Head, Alloy Steel

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/hi-lok/hl18/



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

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