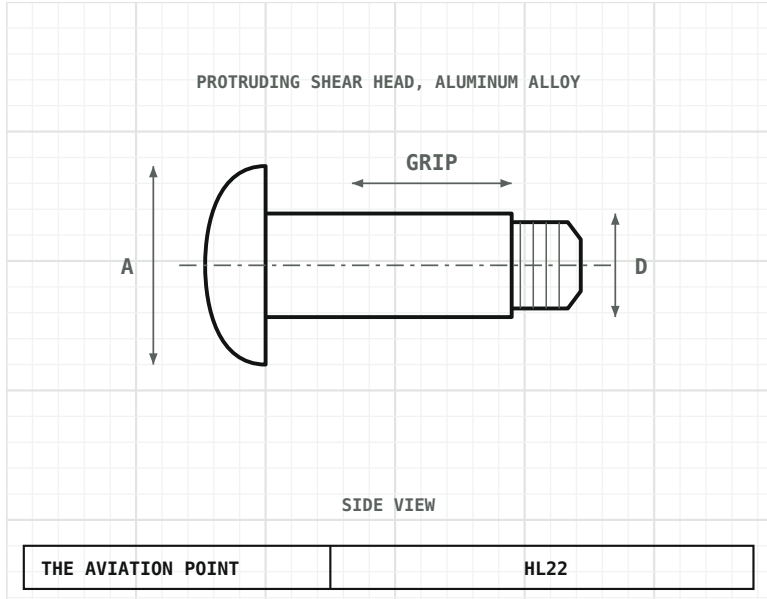
THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT

HL22 pin — protruding shear head, aluminum alloy

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



HL22



Engineering drawing · dimensions in inches

Specification

Item	Value
Type	Hi-Lok pin, protruding 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)	.262 – .242	.315 – .295
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
G — G, ref.	.030	.035
H — H (max / min, see drawing)	.060 – .045	.074 – .055
Thread	8-32UNJC-3A Modified	10-32-UNJF-3A Modified
Double shear, lb min	1,760	2,540
Tension, lb min	940	1,240

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
HL22-5-2	1/8
HL22-5-3	3/16
HL22-5-4	1/4
HL22-5-5	5/16
HL22-5-6	3/8
HL22-5-7	7/16
HL22-5-8	1/2
HL22-5-9	9/16
HL22-5-10	5/8

3/16 9 part numbers

Part no.	Max grip, in
HL22-6-2	1/8
HL22-6-3	3/16
HL22-6-4	1/4
HL22-6-5	5/16
HL22-6-6	3/8
HL22-6-7	7/16
HL22-6-8	1/2
HL22-6-9	9/16
HL22-6-10	5/8

How to read the part number

Part	Meaning
Format	HL22-<dash>
Example	HL22-5-2 — 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.

SOURCES · HL22 — Hi-Lok Pin, Protruding Shear Head, Aluminum Alloy

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/hi-lok/hl22/

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