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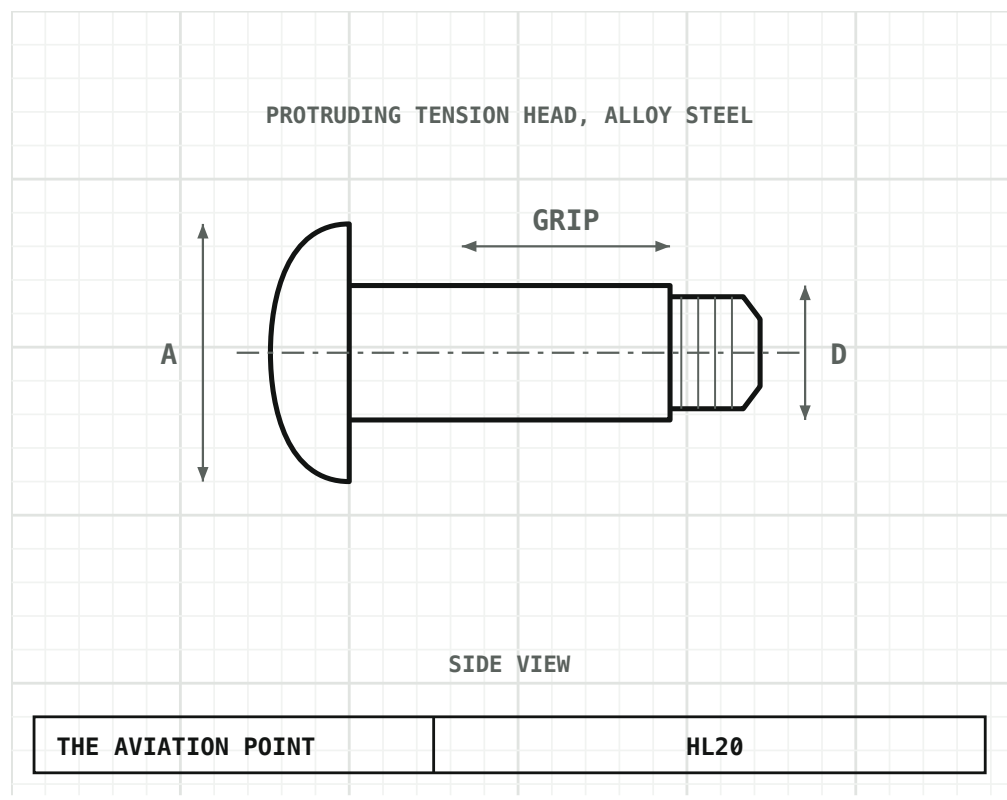
The Aviation Point

HL20 pin — protruding tension head, alloy steel

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



HL20



Engineering drawing · dimensions in inches

Specification

Item	Value
Type	Hi-Lok pin, protruding tension head
Material	Alloy steel
Strength	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)	.322 - .306	.377 - .357	.440 - .415
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.	.030	.035	.045
H — H (max / min, see drawing)	.060 - .055	.074 - .064	.090 - .077
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	2,180	3,180	5,820

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

Part numbers

5/32 14 part numbers

Part no.	Max grip, in
HL20PB5-2	1/8
HL20PB5-3	3/16
HL20PB5-4	1/4
HL20PB5-5	5/16
HL20PB5-6	3/8
HL20PB5-7	7/16
HL20PB5-8	1/2
HL20PB5-9	9/16
HL20PB5-10	5/8
HL20PB5-11	11/16
HL20PB5-12	3/4
HL20PB5-13	13/16
HL20PB5-14	7/8
HL20PB5-15	15/16

3/16 14 part numbers

Part no.	Max grip, in
HL20PB6-2	1/8
HL20PB6-3	3/16
HL20PB6-4	1/4
HL20PB6-5	5/16
HL20PB6-6	3/8
HL20PB6-7	7/16
HL20PB6-8	1/2
HL20PB6-9	9/16
HL20PB6-10	5/8
HL20PB6-11	11/16
HL20PB6-12	3/4
HL20PB6-13	13/16
HL20PB6-14	7/8
HL20PB6-15	15/16

1/4 14 part numbers

Part no.	Max grip, in
HL20PB8-2	1/8
HL20PB8-3	3/16
HL20PB8-4	1/4
HL20PB8-5	5/16
HL20PB8-6	3/8
HL20PB8-7	7/16
HL20PB8-8	1/2
HL20PB8-9	9/16
HL20PB8-10	5/8
HL20PB8-11	11/16
HL20PB8-12	3/4
HL20PB8-13	13/16
HL20PB8-14	7/8
HL20PB8-15	15/16

How to read the part number

Part	Meaning
Format	HL20PB<dash>
Example	HL20PB5-2 — 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: HL75, HL86, HL87.

SOURCES · HL20 — Hi-Lok Pin, Protruding Tension Head, Alloy Steel

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/hi-lok/hl20/

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

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