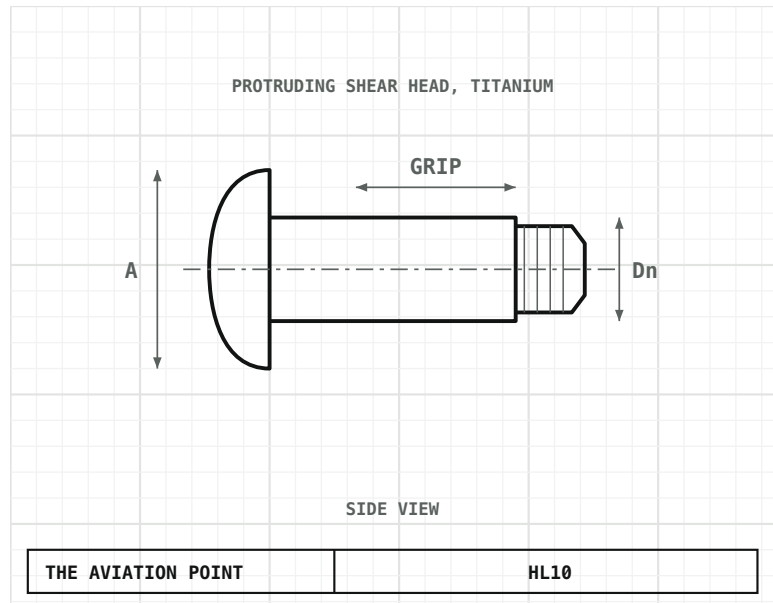
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HL10 pin — protruding shear head, titanium

Hi-Lok Pin, Protruding Shear Head, Titanium: dimensions by size and strength.



HL10



Engineering drawing · dimensions in inches

Specification

Item	Value
Type	Hi-Lok pin, protruding shear head
Material	Titanium (6AL-4V per the catalogue quick-reference chart)
Strength	95,000 psi shear min.
Status	Check the current issue before design use.

Dimensions by size

Dimension, in	8-32	10-32	1/4-28
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
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	8-32	10-32	1/4-28
Double shear, lb min	4,010	5,380	9,300
Tension, lb min	1,940	2,500	4,300
Dn — Shank diameter, without coating or solid film lube (max / min)	.1635 - .1630	.1895 - .1890	.2495 - .2490
Dc — Shank diameter, with coating or solid film lube (max / min)	.1635 - .1625	.1895 - .1885	.2495 - .2485

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

Part numbers

Part no.	Size
HL10VAZ5	5/32
HL10VAZ6	3/16
HL10VAZ8	1/4

One part number per diameter. Add the grip after a second dash, in 1/16 in.

How to read the part number

Part	Meaning
Format	HL10VAZ<dash>
Example	HL10VAZ5 — 5/32 nominal diameter; add the grip dash, e.g. HL10VAZ5-4

Notes

- Titanium. The second dash number is the grip length in 1/16 in; the catalogue does not tabulate the grips of this series, so the part numbers below are the diameter prefixes.
- 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 · HL10 — Hi-Lok Pin, Protruding Shear Head, Titanium

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/hi-lok/hl10/

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