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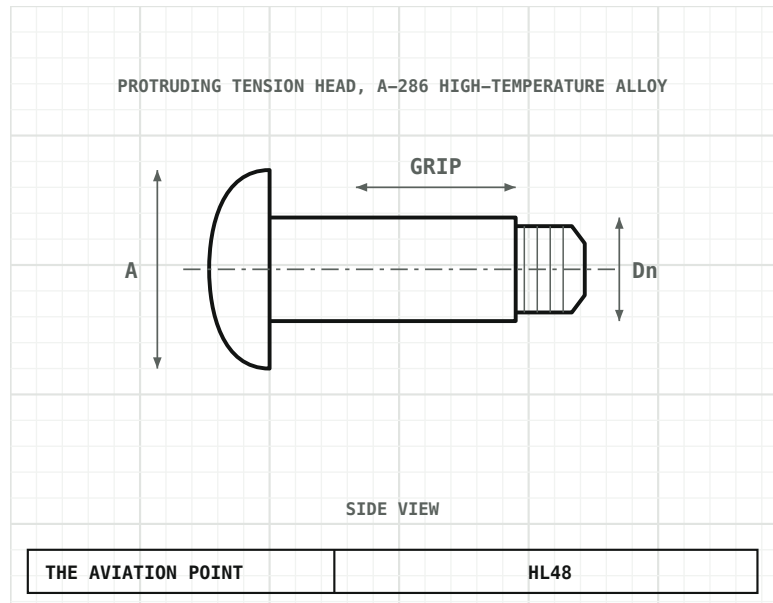
The Aviation Point

HL48 pin — protruding tension head, A-286 high-temperature alloy

Hi-Lok Pin, Protruding Tension Head, A-286 High Temperature Alloy: dimensions by size, strength and every listed part number.



HL48



Engineering drawing · dimensions in inches

Specification

Item	Value
Type	Hi-Lok pin, protruding tension head, A-286
Material	A-286 high-temperature alloy
Status	Check the current issue before design use.

Dimensions by size

Dimension, in	8-32	10-32
Nominal diameter	5/32	3/16
A — Head diameter (max / min)	.322 – .308	.377 – .357
B — Ref. (see drawing)	.312	.325
TD — Threaded-end diameter (max / min)	.1595 – .1570	.1840 – .1810
G — G, ref.	.030	.035
H — H (max / min, see drawing)	.060 – .055	.074 – —
Thread	8-32	10-32
Double shear, lb min	4,010	5,380
Tension, lb min	2,180	3,180
Dn — Shank diameter, without coating or solid film lube (max / min)	.1635 – .1630	.1895 – .1890
Dc — Shank diameter, with coating or solid film lube (max / min)	.1635 – .1625	.1895 – .1885

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

Part numbers

5/32 5 part numbers

Part no.	Max grip, in
HL48-5-2	1/8
HL48-5-3	3/16
HL48-5-4	1/4
HL48-5-5	5/16
HL48-5-6	3/8

3/16 5 part numbers

Part no.	Max grip, in
HL48-6-2	1/8
HL48-6-3	3/16
HL48-6-4	1/4
HL48-6-5	5/16
HL48-6-6	3/8

How to read the part number

Part	Meaning
Format	HL48-<dash>
Example	HL48-5-2 — 5/32 nominal diameter, max grip 1/8 in

Notes

- 1/16 in grip variation.
- To confirm: The catalogue prints H for the -6 size as .074 / .084, a minimum above the maximum; the minimum is left blank until the standard is checked.
- 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, HL78, HL86.

SOURCES · HL48 — Hi-Lok Pin, Protruding Tension Head, A-286 High Temperature Alloy

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/hi-lok/hl48/

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