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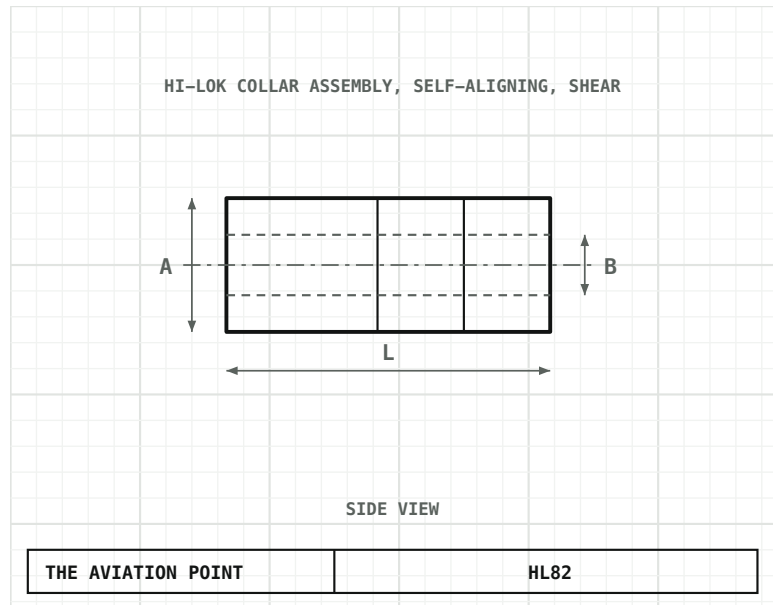
The Aviation Point

HL82 collar — self-aligning, shear, aluminum collar with stainless washer

Hi-Lok Collar Assembly, Self-Aligning, Shear, Aluminum Collar and Stainless Steel Washer: dimensions by size, strength and torque-off.



HL82



Engineering drawing · dimensions in inches

Specification

Item	Value
Type	Hi-Lok collar assembly, self-aligning, shear
Material	Aluminum collar, stainless steel washer
Strength	Shear application
Status	Check the current issue before design use.

Dimensions by size

Dimension, in	8-32UNJC-3B	10-32UNJF-3B	10-32UNJF-3B	10-32UNJF-3B	1/4-28UNJF-3B	1/4-28UNJF-3B	5/16-24UNJF-3B
Pin nominal diameter	5/32	3/16	3/16	3/16	1/4	1/4	5/16
A — Collar diameter (max / min)	.365 – .355	.365 – .355	.365 – .355	.365 – .355	.475 – .465	.475 – .465	.620 – .610
B — Bore diameter (max / min)	.095 – .085	.095 – .085	.095 – .085	.095 – .085	.120 – .110	.120 – .110	.130 – .120
M — Washer/flange diameter (max / min)	.420 – .400	.420 – .400	.420 – .400	.420 – .400	.540 – .520	.540 – .520	.647 – .627
L — Length	.445	.445	.445	.445	.570	.570	.690
Thread	8-32UNJC-3B	10-32UNJF-3B	10-32UNJF-3B	10-32UNJF-3B	1/4-28UNJF-3B	1/4-28UNJF-3B	5/16-24UNJF-3B
Collar UTS, lb min	1,400	1,600	1,600	1,600	3,000	3,000	5,000
Torque-off, in-lb	22-32	32-42	32-42	32-42	75-90	75-90	140-170

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

Part numbers

Part no.	Size	Torque-off, in-lb
HL82-5AW	5/32	22-32
HL82-6APBW	3/16	32-42
HL82-6A	3/16	32-42
HL82-6AW	3/16	32-42
HL82-8APBW	1/4	75-90
HL82-8A	1/4	75-90
HL82-10A	5/16	140-170

Every collar dash number listed, by pin diameter.

How to read the part number

Part	Meaning
Format	HL82-<dash>
Example	HL82-5AW — 5/32 nominal pin diameter

Notes

- Catalogue note: APBW indicates a collar/washer combination with a CAD II plated washer.
- L is the minimum length (a single value in the catalogue).
- Max – min values shown as max – min. Approved data governs.
- Pins this collar is listed for in the catalogue: standard and 1/64 oversize pins (HL62-HL63).

SOURCES · HL82 — Hi-Lok Collar Assembly, Self-Aligning, Shear, Aluminum Collar and Stainless Steel Washer

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/hi-lok/hl82/

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