THE STANDARD FOR SEAT RECLINE & CONTROL

The industry-standard Hydrolok® delivers an infinite range of adjustment options, with the longest lifespan, for the lowest total cost of ownership.

Infinite Adjustment Capability – Can go on any seat in the aircraft regardless of allowable recline; allows changes during cabin reconfiguration or seat refurbishment

Longest Service Life – Designed and tested for 250,000+ cycles for maximum reliability, with the longest standard warranty in the industry

Lowest Total Cost of Ownership – Lifetime savings on labor, repair, and replacement costs over both gas and other hydraulic locks

Quick & Easy Installation – Drop-in replacement for almost all recline locks in service saves time and labor

Industry-Standard Control Cables – Dependable push-button Control Cables offer low friction with minimal stretch and low button force for ease of operation

More Miles Flown – Over 500,000 Hydroloks and more than 1 million AC/MC Series Control Cables sold

INNOVATIVE | TRUSTED | COLLABORATIVE

CRANE AEROSPACE & ELECTRONICS

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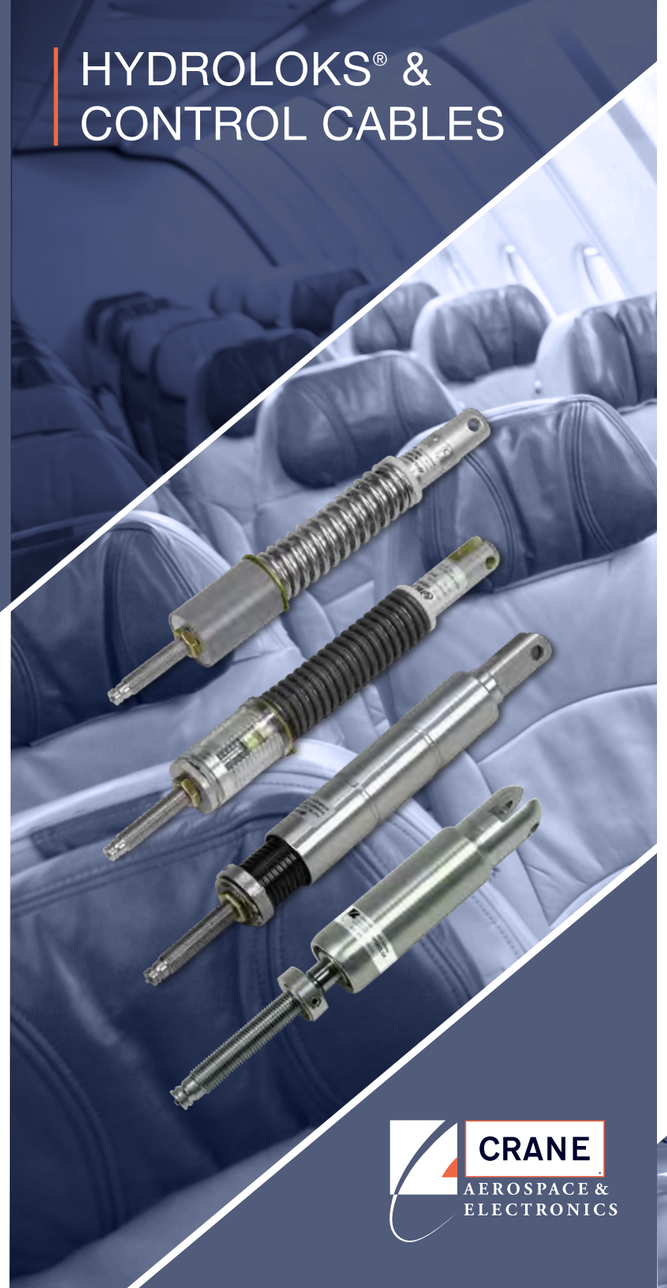
HYDROLOKS® & CONTROL CABLES



CRANE AEROSPACE & ELECTRONICS

HOW IT WORKS

The cylinder-and-piston design of the Hydrolok® uses an integral valve and porting system. This design gives passengers a smooth reclining motion by creating a controlled flow of hydraulic fluid from one side of the piston to the other.

All Hydroloks use Crane A&E proprietary hydraulic seal technology to prevent leaks and increase the life of the system. Hydroloks also have an auxiliary reservoir chamber that replenishes the very small amount of hydraulic fluid used with each passenger input. This assures consistent operation and long cycle life for operators.

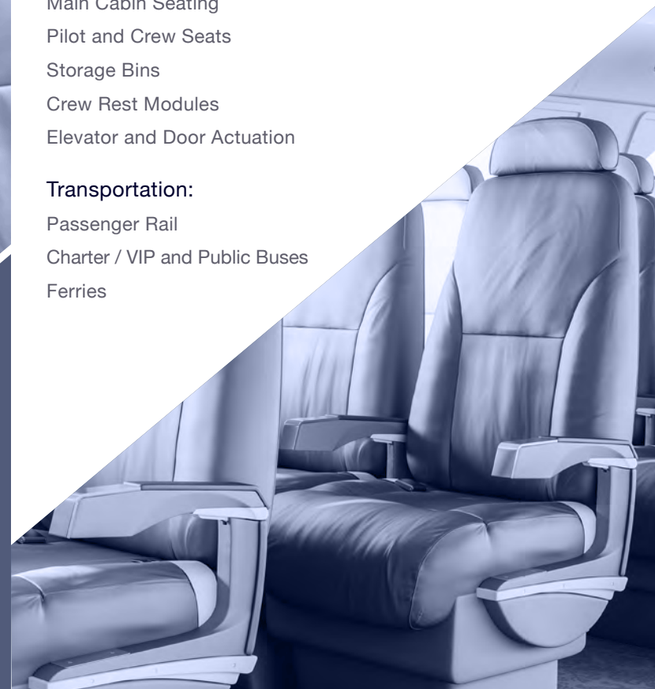
MARKETS/APPLICATIONS

Aircraft:

Main Cabin Seating
Pilot and Crew Seats
Storage Bins
Crew Rest Modules
Elevator and Door Actuation

Transportation:

Passenger Rail
Charter / VIP and Public Buses
Ferries



HG HYDROLOK® SERIES

HG Features

- Extremely lightweight: as low as 0.26 lbs. (119 g)
- Best-in-class ultimate load of 4,000 lbf (16,444 N)
- Infinite adjustment capability
- Override safety feature
- Adjustable stroke
- Integral attachment end
- 4130 steel chrome-plated piston
- Proprietary hydraulic seal technology
- Anodized protective finish
- Continuous fluid compensation

Performance Specifications

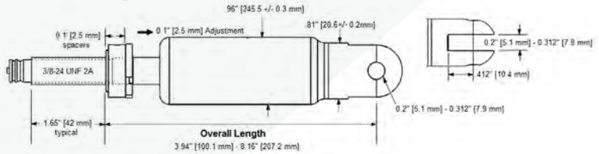
Button force.....6-12 lbf (26.7-53.7 N)
Ultimate compressive load....4,500 lbf (20,017 N)
Ultimate tensile load.....4,000 lbf (17,793 N)
Operating load.....1,000 lbf (4,444 N)
Speed to extend.....0.3-0.6 sec/in. of stroke
Operational life.....250,000 cycles

Customizable Options*

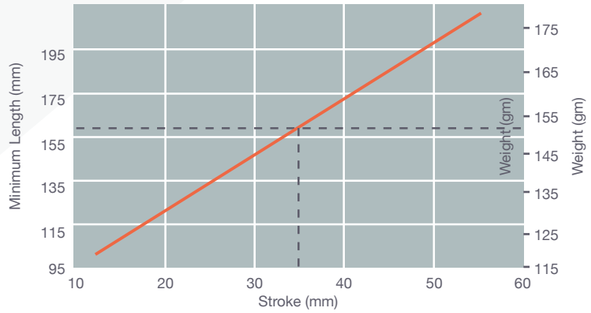
Extend force.....40-130 lbf
Override force.....40-130 lbf
Stroke.....0.5-2.1 in. (12.7-53.3 mm)
Overall Length...3.94-8.16.1 in.(100.1-207.2mm)
Mounting Clevis...Customized to exact specs

*See graph

HG Hydrolok® Schematic



HG Hydrolok® Minimum Length & Weight Vs. Stroke



AL HYDROLOK® SERIES

AL Standard Features

- Aluminum impact extruded cylinder
- Integral clevis attachment end
- 4130 steel chrome plated piston
- Proprietary hydraulic seal technology
- Anodized protective finish
- Continuous fluid compensation
- Tamper proof stroke adjustment
- Lockout setting
- Rigid locking at any position

Optional Features

- Blade attachment ends
- Custom attachment ends/lengths

Performance Specifications

Override force.....70 lbs. (311 N)
Button force.....4 lbs. (14 N)
Compression load....3000 lbs (13.3 kN)
Tensile load.....3000 lbs. (13.3 kN)
Proof Load.....1500 lbs. (6.6 kN)
Nominal weight.....0.9oz (255 g)
Speed to extend.....0.4 sec. nominal
Operational life.....250,000 cycles

Mounting Length

6.1–9.8 in. (155–249 mm)

Available Stroke

0–1.380 in. (0–35.05 mm)

Output Force Compressed*

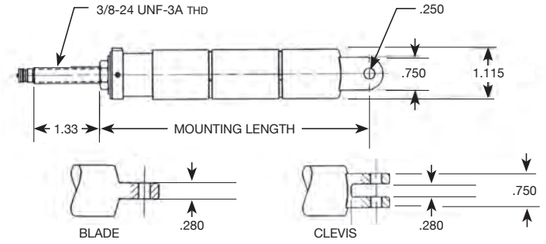
95–120 lbs. (423–534 N)
105–140 lbs. (467–623 N)
135–145 lbs. (600–645 N)

Output Force Extended*

65–80 lbs. (289–356 N)
65–85 lbs. (289–378 N)
70–80 lbs. (311–356 N)
75–80 lbs. (334–356 N)

*Varies with mounting length

AL Hydrolok® Schematic



HL/HV HYDROLOK® SERIES

HL & HV Series Standard Features

- Machined aluminum cylinder
- Machined clevis attachment end
- 4130 steel chrome plated piston
- Proprietary hydraulic seal technology
- Anodized protective finish
- Automatic fluid replenishment
- Tamper proof stroke adjustment
- Lockout setting
- Rigid locking at any position

Optional Features

- Blade attachment ends
- Custom attachment ends/lengths

Performance Specifications

Override force.....70 lbs. (311 N)
Button force.....4 lbs. (14 N)
Compression load....3000 lbs (13.3 kN)
Tensile load.....3000 lbs. (13.3 kN)
Proof Load.....1500 lbs. (6.6 kN)
Nominal weight.....0.9oz (255 g)
Speed to extend.....0.4 sec. nominal
Operational life.....250,000 cycles

Mounting Length

6.1–9.8 in. (155–249 mm)

Available Stroke

0–1.380 in. (0–35.05 mm)

Output Force Compressed*

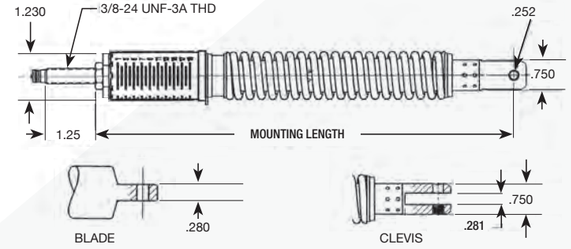
95–120 lbs. (423–534 N)
105–140 lbs. (467–623 N)
135–145 lbs. (600–645 N)

Output Force Extended*

65–80 lbs. (289–356 N)
65–85 lbs. (289–378 N)
70–80 lbs. (311–356 N)
75–80 lbs. (334–356 N)

*Varies with mounting length

HL/HV Hydrolok® Schematic



HISTORY OF EXCELLENCE

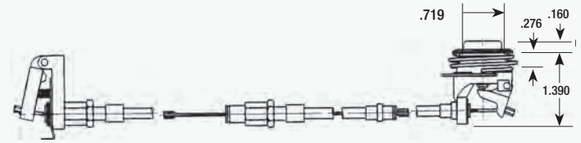
Compact AA Hydrolok® – Completely interchangeable with most gas lock applications, the compact AA design is comparable to gas locks in size, weight and cost yet boasts up to three times the reliability. AA Hydroloks require virtually no maintenance.

AL Hydrolok® – Certified drop-in replacement for HV, HL and UL10 locks. Infinite adjustment of the lock for multiple seat pitch settings.

CONTROL CABLES

AC Control Standard Features

- Kink-resistant, non-stretch cable
- Spring steel anti-abrasion conduit
- Anodized finish button and bezel
- FAA 14 CFR 25.853 compliant



AC21 Control

Die cast aluminum output with quick release clip. Rugged injection molded button housing

AC71 Control

Die cast aluminum output with quick release clip. Injection molded button with low installation height