

# Hydrolok® and Controls



- AA, AL, HL & HV Series Hydrolok® Recline Systems
- MC Series Control Cables
- The Industry Standard

Crane Aerospace & Electronics Hydrolok® systems are built to the same P. L. Porter tradition of quality that has been the aircraft industry standard for over 50 years.

## AA – NEW compact replacement for gas locks.

Completely interchangeable with gas lock applications, the new compact “AA” design is comparable to gas locks in weight, size, and cost, yet offers several advantages. It is highly reliable, requires virtually no maintenance, is less susceptible to contaminants, reduces stress on related components, and comes with a full 5-year warranty.

## AL – Simple, lightweight and cost effective.

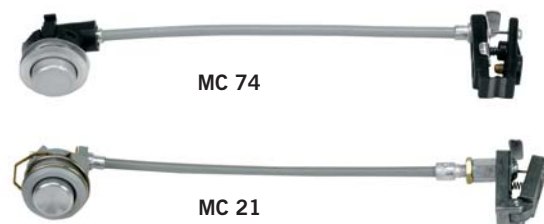
Features of the new AL Hydrolok® include: Proprietary hydraulic technology with 35% fewer parts and 40% reduction in dynamic sealing surfaces, a continuous compensation reservoir for maintenance-free service, rigid locking at any position, tamper-proof stroke adjustment which is infinitely variable up to 1.25" for most cabin applications. And the AL Hydrolok® is a drop-in replacement for almost all current recline locks in commercial service.

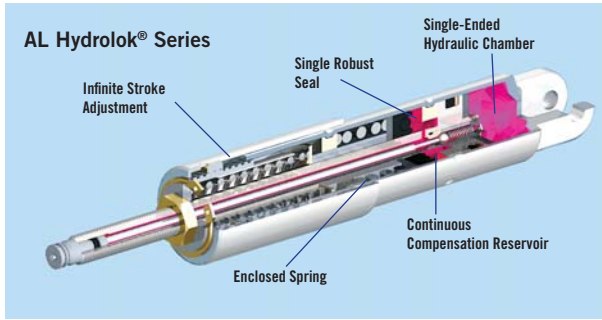
## HL and HV Series – Traditional excellence in design.

Time-tested maximum reliability and service life with rigid locking not found in other seat recline systems. Features include anti-contaminant cover, dual sealing surfaces and compensation reservoir. The HV version offers infinitely adjustable stroke.

## Control Cables

Our industry-standard release cables are used for seat recline and other passenger seat features. They are adjustable during installation to compensate for routing on a variety of seat models. They feature proprietary low friction cable with minimal stretch over their lifetime and low button force for ease of operation with drop-in replacement for most current seat controls. Crane cables offer proven reliability and meet all the FAA vertical flammability requirements while maintaining maximum flexibility. Custom designs are available.





### 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 end  
Custom attachment ends/lengths

### Performance Specifications

Override force ..... 70lbs.(311N)  
Button force..... 4lbs.(14N)  
Compression load .... 3000lbs.(13.3kN)  
Tensile load ..... 3000lbs.(13.3kN)  
Proof load..... 1500lbs.(6.6kN)  
Nominal weight..... 9oz.(255g)  
Speed to extend ..... 4sec. nominal  
Operational life..... 250,000 cycles

### Mounting length

6.1-9.8"(155-249mm)

### Available stroke

0-1.25"  
(0-31.75+mm)

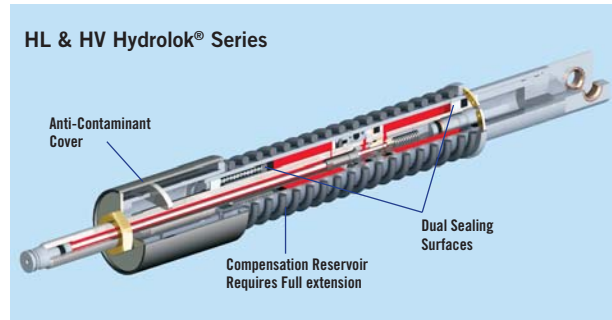
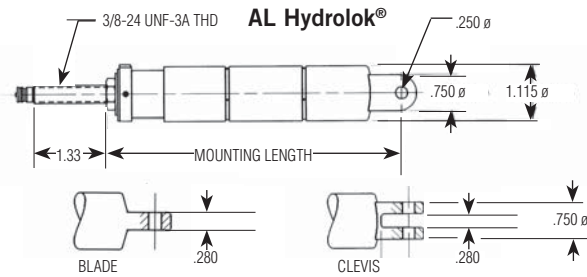
### Output force compressed\*

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

### Output force extended\*

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

\*Varies with mounting length



### 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 end  
Custom attachment ends/lengths

### Performance Specifications

Override force ..... 70lbs.(311N)  
Button force..... 4lbs.(14N)  
Compression load .... 3000lbs.(13.3kN)  
Tensile load ..... 3000lbs.(13.3kN)  
Proof load..... 1500lbs.(6.6kN)  
Nominal weight..... 9oz.(255g)  
Speed to extend ..... 4sec. nominal  
Operational life..... 250,000 cycles

### Mounting length

6.1-9.8"(155-249mm)

### Available stroke

0-1.25+ "(12.7mm)  
(0-31.75+mm)

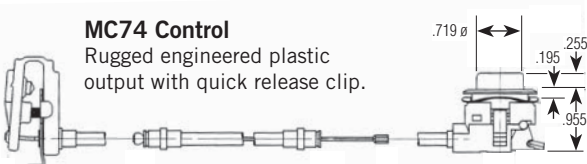
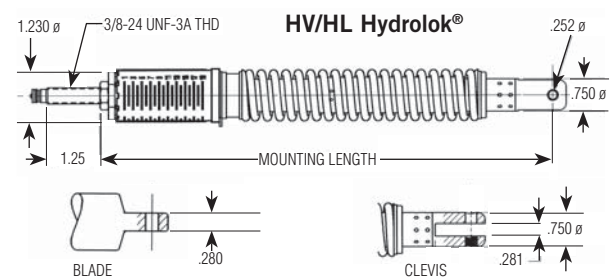
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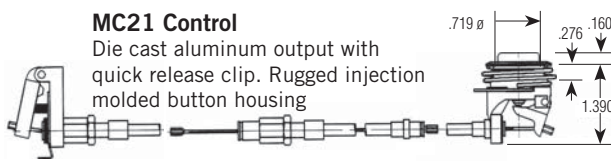


### MC74 Control

Rugged engineered plastic  
output with quick release clip.

### MC Control Standard Features

Kink-resistant, non-stretch cable  
Spring steel anti-abrasion conduit  
Anodized finish button and bezel



### MC21 Control

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

