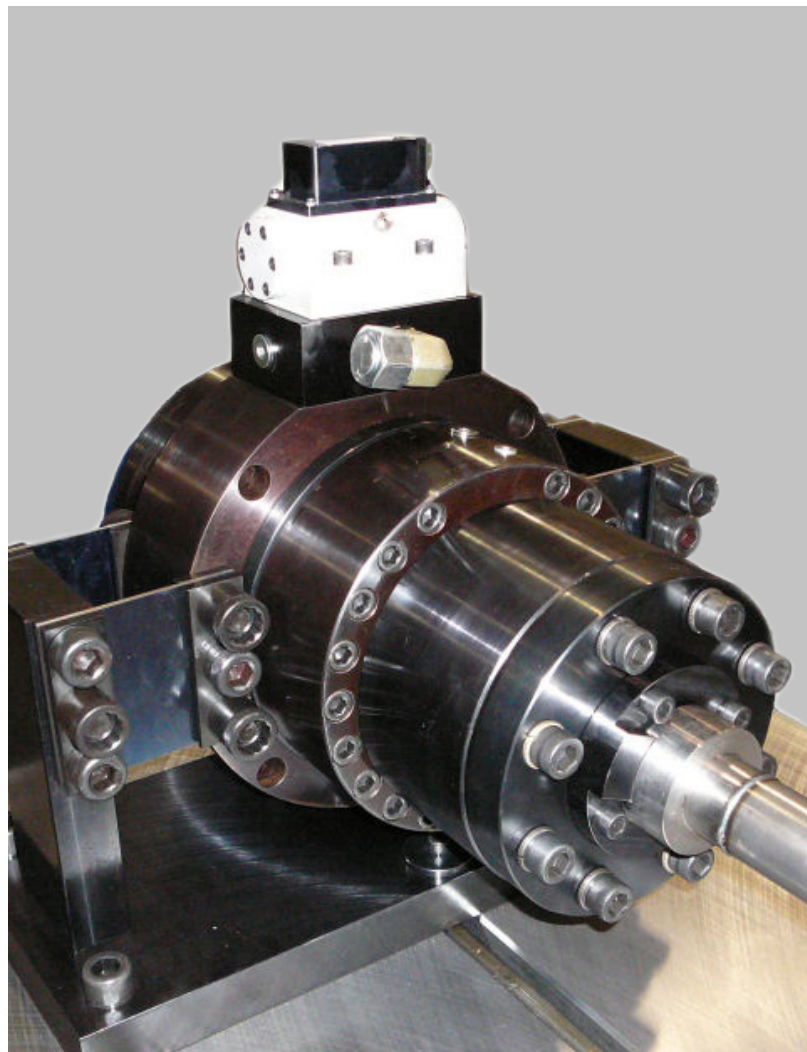
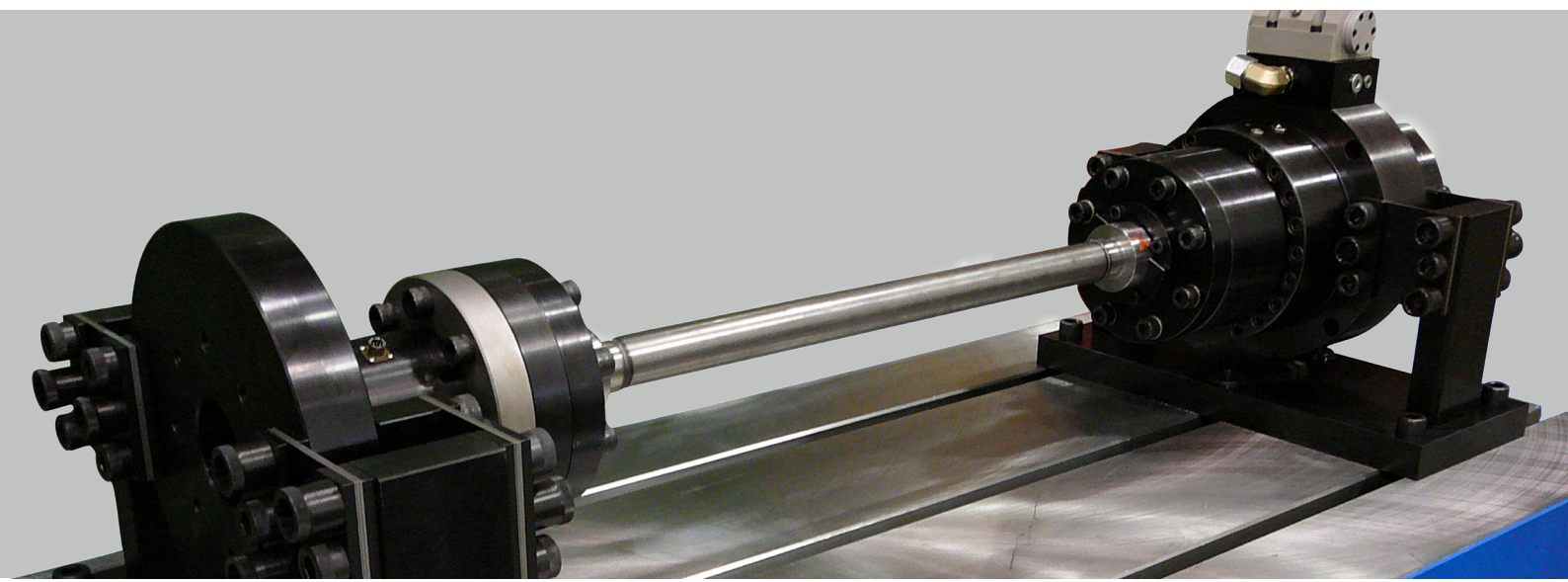




Actuator Overview

Servo-Hydraulic Actuators





Servo-Hydraulic Actuators

Product Overview

LINK offers a broad range of fatigue rated actuators for a wide variety of testing and high performance industrial applications. The development of both linear and rotary actuators stems from many years of experience in the testing industry, partnerships with major suppliers, and utilizing advanced design techniques such as FEA analysis. LINK also repairs fatigue rated actuators from a variety of other manufacturers. This allows us to learn from a large range of failure modes on equipment that has been in operation for many years, and apply that knowledge to the design of our products.

Rotary Actuators

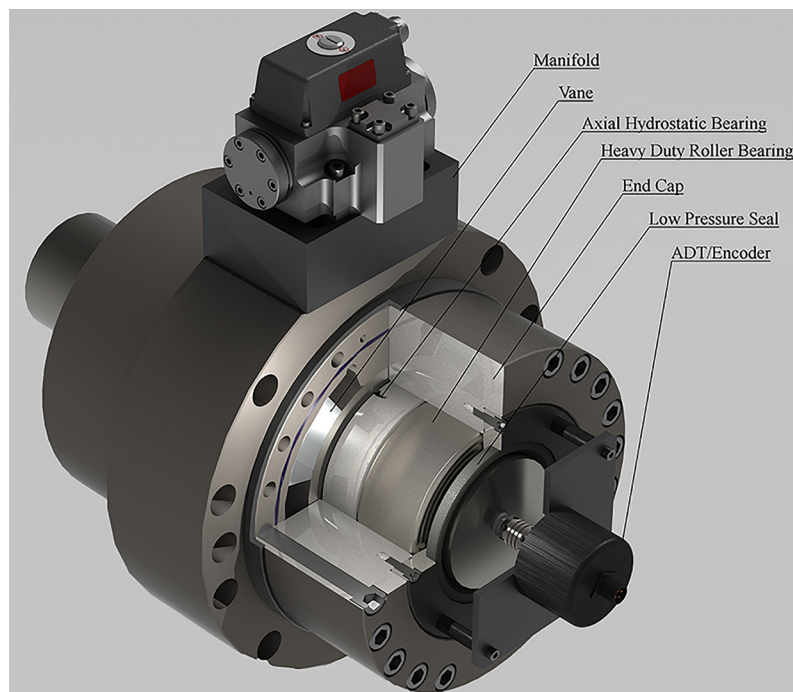
LINK's rotary actuators are available with dual vanes and +/- 50-degree rotation. Another option is the spinning rotary actuator, which is designed for 4-square applications.

RSA Series

Technical Features: 3000 PSI (206 bar), rotary actuator designed for applications up to 150 Hz, includes hydrostatic bearings for reacting axial loads, mounted on flexure joints for additional protection

Product Range: 500-4,000,000 in-lb.
(56-450,000 Nm) torque rating
(For high frequency applications to 500 Hz, optimized displacement actuators are available.)

Typical Markets: vehicle,
aerospace, powertrain, vibration



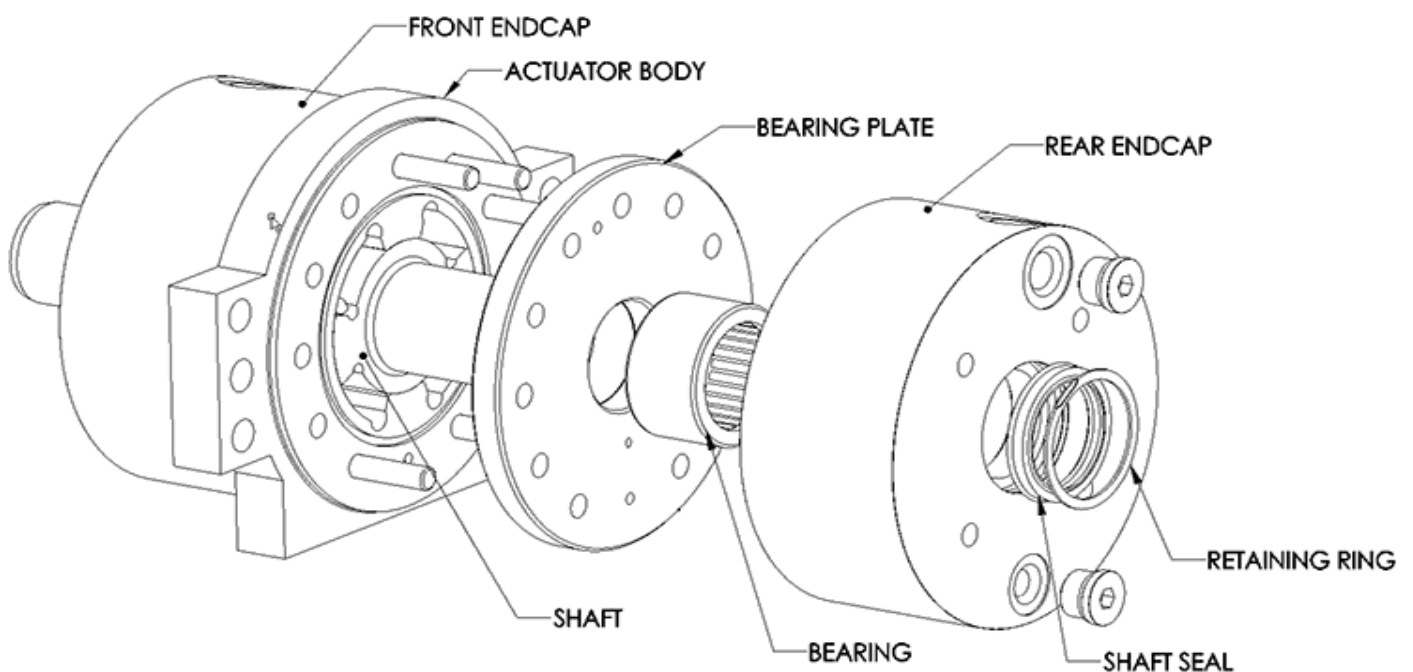
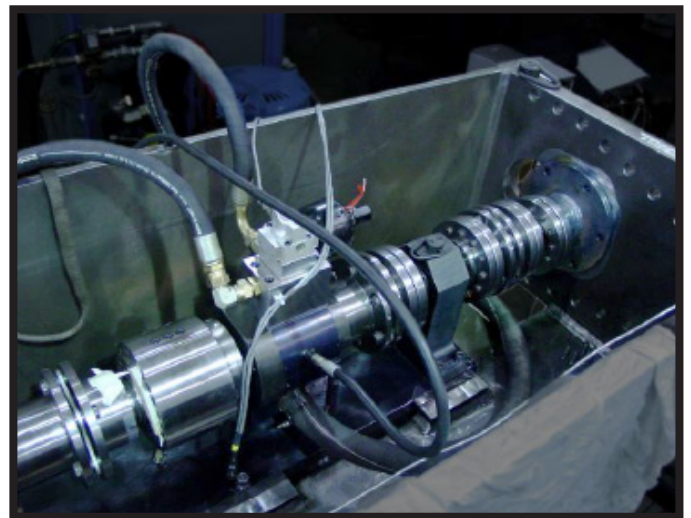


SRA2 Series

Technical Features: 3000 PSI (206 bar), spinning rotary actuator for 4-Square applications up to 150 Hz, includes hydrostatic bearings for reacting axial loads

Product Range: 500-4,000,000 in-lb (56-450,000 Nm) torque rating.
(For high frequency applications to 500 Hz, optimized displacement actuators are available.)

Typical Markets: vehicle, aerospace, powertrain, vibration





Servo-Hydraulic Actuators

Linear Actuators

LINK's actuator product line allows the flexibility of choosing from a wide range of designs. Each model's particular characteristics are designed to address a specific application or, optimized for a certain market.

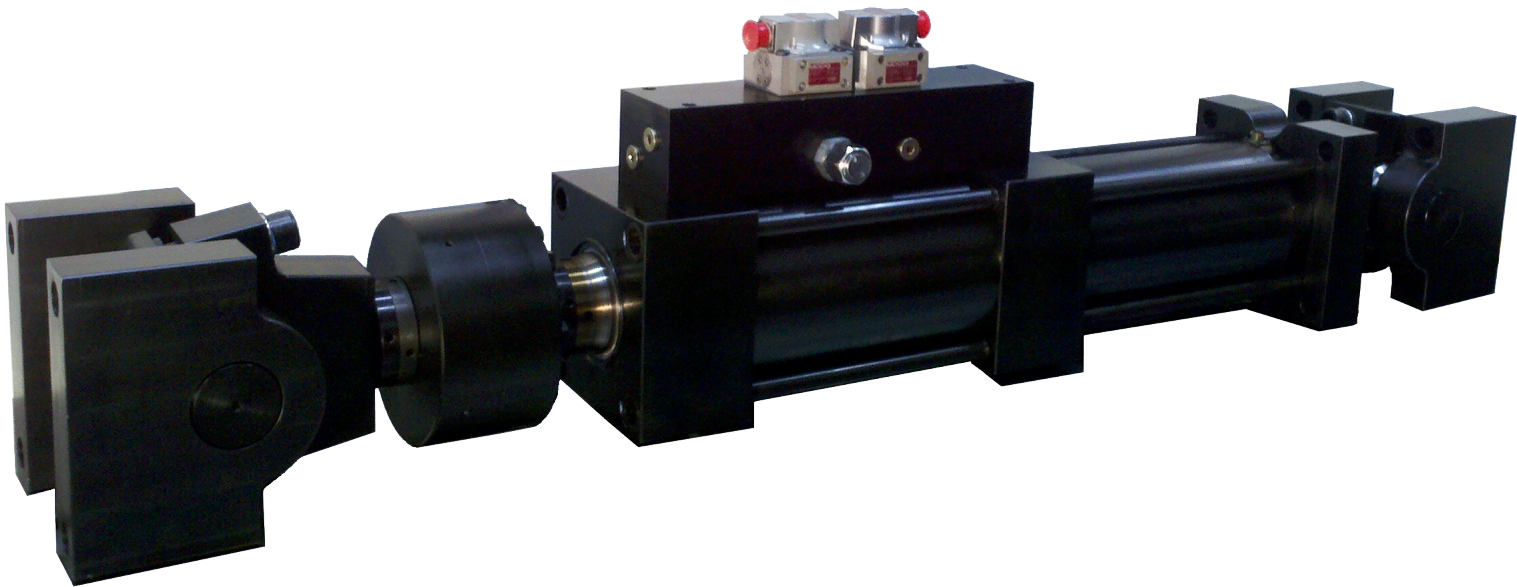
Standard Polymer Bearing:

LPA Actuator

Technical Features: for use in general testing applications up to 100 Hz and 210 bar operation, tie rod design with steel body, double piston rod with LVDT feedback

Product Range: 3.3-500 Kip (15-2250kN) force rating, 2in.- 72in. (50mm-1.8 meter) stroke.

Typical Markets: general testing, vehicle, civil, aerospace



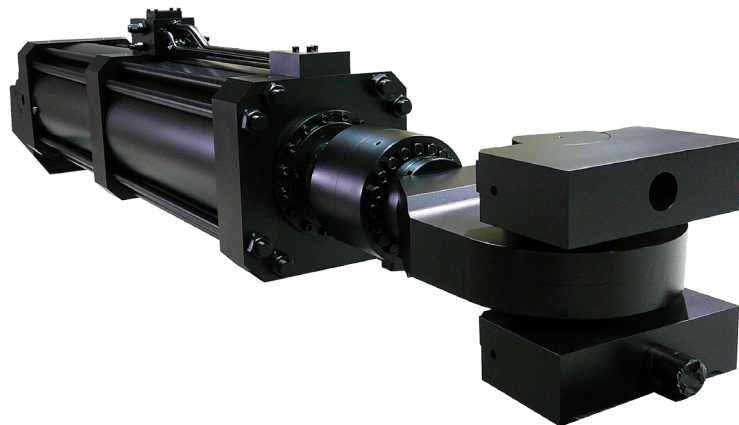


LCA Actuator

Technical Features: value optimized actuator for use in general testing applications up to 100 Hz and 210 bar operation, square body design with manifold incorporated into body, double piston rod with LVDT feedback device

Product Range: 0.5-3.3 Kip (2.2-15kN) force rating, 2in.- 10in. (50-250mm) stroke

Typical Markets: general testing, vehicle, civil, aerospace



LAA Actuator

Technical Features: lower-cost actuator for use in static or quasi-static applications and 210 bar operation, tie rod design with steel body, available in single or double piston rod with +/-10VDC

Product Range: 3.3-1100 Kip (15-5000kN) force rating, 2in.-144in. (50mm-3.6 meter) stroke

Typical Markets: general testing, vehicle, civil, aerospace 67Kip (300kN) 24in. (0.6m) stroke LHA Actuator





Servo-Hydraulic Actuators

Linear Actuators Continued

Hydrostatic Bearing Actuators:

LAH Series

Technical Features: value optimized actuator with hydrostatic bearings for use in applications exceeding 100 Hz. or where low friction/longer life are of prime concern, designed for 210 bar operation, tie rod design with steel body, double rod design with LVDT feedback

Product Range: 3.3-1100 Kip (15-5000kN) force rating, 2in.-144in. (50mm-3.6 meter) stroke

Typical Markets: general testing, vehicle, civil, aerospace, elastomer, some vibration applications

LHF Series

Technical Features: 3000 PSI or 4000 PSI (200 or 280 bar), actuator designed for very high frequency operation to 1000 Hz

Product Range: 1.1-110 Kip (5.5-500kN) force rating, 2in.-12in. (50-250mm stroke)

Typical Markets: vibration, elastomer

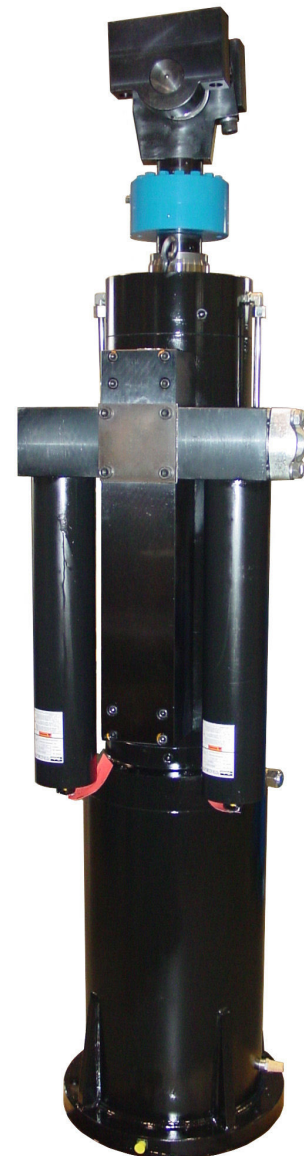
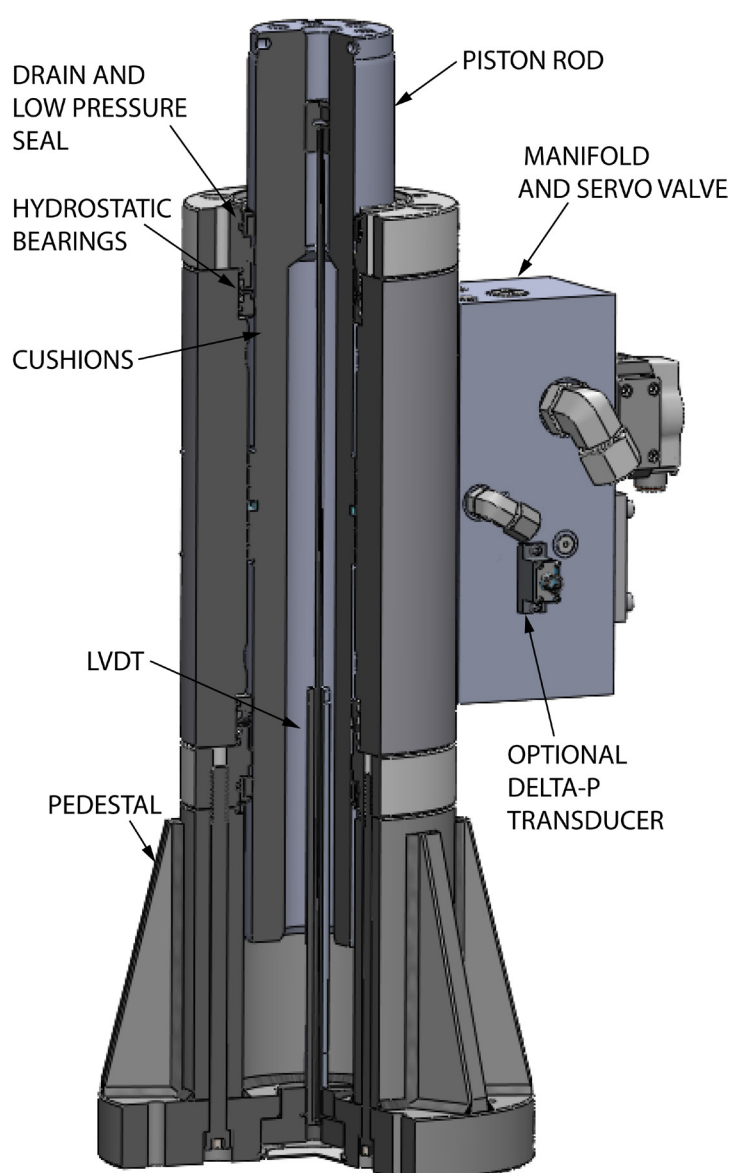


LHA Series

Technical Features: 4000 PSI, larger rod diameter and hydrostatic bearings for use in higher side load applications and operation well above 100 Hz, double rod design with LVDT feedback

Product Range: 3.3-1100 Kip (15-5000kN) force rating, 2in.-40in. (50mm to 1meter stroke)

Typical Markets: general testing, vehicle, civil, aerospace, elastomer, some vibration applications (most often used with 4-post road simulators)



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