



GOLD SEAL®  
ACTUATORS

GOLD SEAL® ACTUATORS  
FOR RELIABLE PERFORMANCE.





## DURABILITY AND RELIABILITY MILE AFTER MILE.

Haldex is both an industry pioneer and market leader in air brake actuators. Many of the designs and features you have come to expect are Haldex innovations. We continue to set the industry standard for design, reliability and extended product life today and into the future.

By using advanced manufacturing processes and high-grade, quality materials, Haldex Gold Seal<sup>®</sup> Actuators assure lower operating costs and deliver long-lasting durability, performance and reliability for outstanding value mile after trouble-free mile.



### Engineered Tough

Unlike our competitors who use inferior “off-the-shelf” components, Haldex engineers all of our materials to strict standards.

Utilizing specially designed components

like our patented power spring, we maximize output force and extend the life of the actuator. Longer life means few replacements, which saves you money.

### Built Tough

Haldex manufacturing facilities are both ISO and QS certified. These disciplines ensure each actuator exceeds your expectations. Competitor units may look similar but lack many of the corrosion protection features of Gold Seal. The integral rolled seal on the spring housing maintains the protective coating even after assembly.

### Guaranteed to Endure

Haldex Gold Seal is guaranteed with four-year, unlimited mileage warranty coverage\*. All the design features and benefits of Gold Seal add-up to save you time and money by reducing your maintenance and downtime expenses.

### Haldex has the Actuator You Need

Haldex offers a complete family of actuators designed and built to the same high standards. The Gold Seal family includes twelve different sizes ranging from the popular 3030 2.5” stroke to the 1624 2.25” stroke and 3636 3.0” stroke. A complete listing of our product line is included here.

\*See Haldex Warranty Policy Number L20221 for details.

# GOLD SEAL

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**PREMIUM PILOTED DIAPHRAGM** for straight spring cycling and longer diaphragm life.

**ALUMINUM CENTER BODY** is durable and lightweight.

**CAGING TOOL** with ACME threads makes caging quick, convenient and easy.

**DOUBLE O-RING CENTER SEAL AND UNIQUE WEAR RINGS** extend service life and protect against air leakage between chambers.

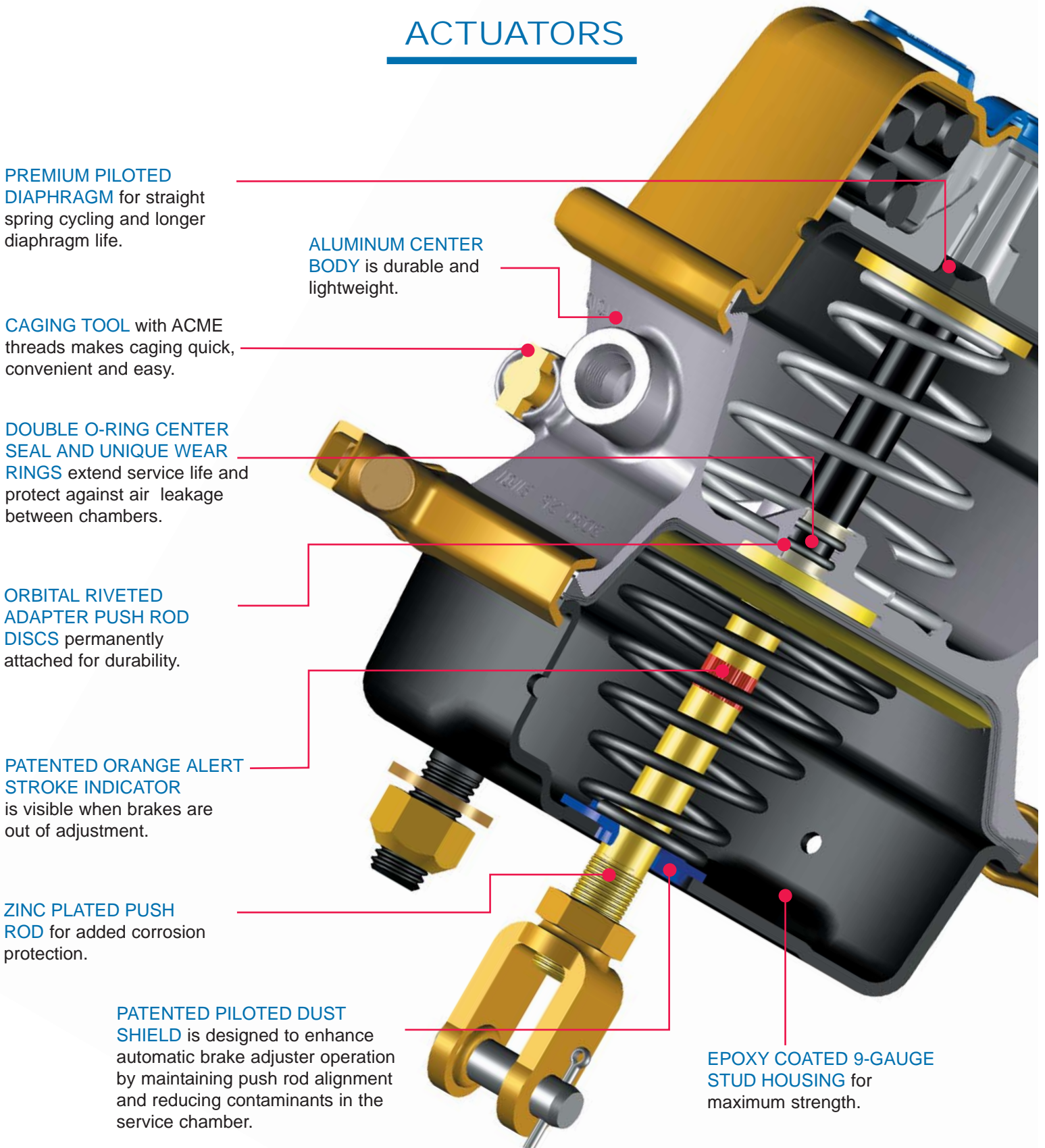
**ORBITAL RIVETED ADAPTER PUSH ROD DISCS** permanently attached for durability.

**PATENTED ORANGE ALERT STROKE INDICATOR** is visible when brakes are out of adjustment.

**ZINC PLATED PUSH ROD** for added corrosion protection.

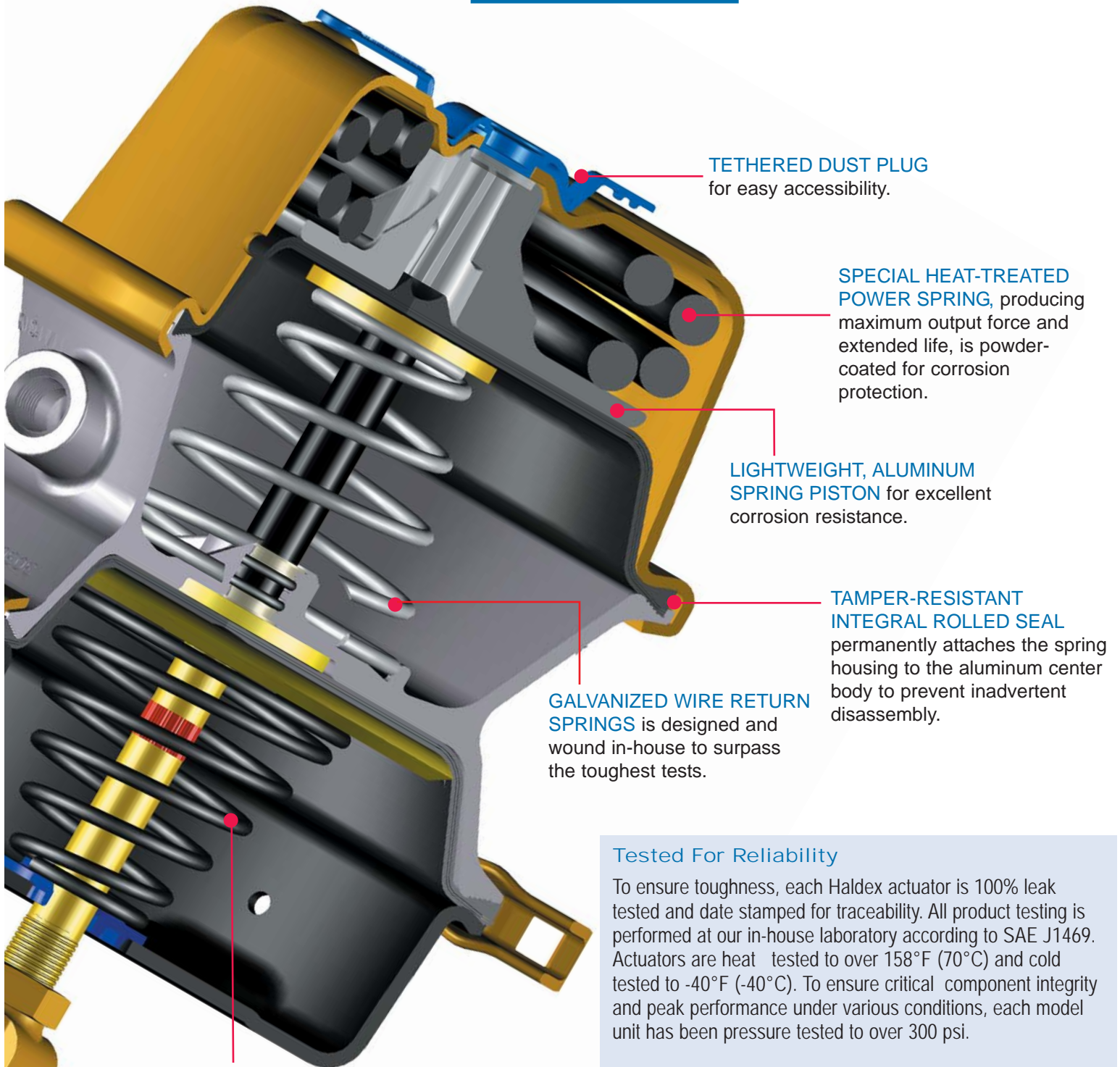
**PATENTED PILOTED DUST SHIELD** is designed to enhance automatic brake adjuster operation by maintaining push rod alignment and reducing contaminants in the service chamber.

**EPOXY COATED 9-GAUGE STUD HOUSING** for maximum strength.



# GOLD SEAL

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**TETHERED DUST PLUG**  
for easy accessibility.

**SPECIAL HEAT-TREATED POWER SPRING**, producing maximum output force and extended life, is powder-coated for corrosion protection.

**LIGHTWEIGHT, ALUMINUM SPRING PISTON** for excellent corrosion resistance.

**TAMPER-RESISTANT INTEGRAL ROLLED SEAL** permanently attaches the spring housing to the aluminum center body to prevent inadvertent disassembly.

**GALVANIZED WIRE RETURN SPRINGS** is designed and wound in-house to surpass the toughest tests.

**EPOXY COATED SERVICE RETURN SPRING** for added corrosion protection.

### Tested For Reliability

To ensure toughness, each Haldex actuator is 100% leak tested and date stamped for traceability. All product testing is performed at our in-house laboratory according to SAE J1469. Actuators are heat tested to over 158°F (70°C) and cold tested to -40°F (-40°C). To ensure critical component integrity and peak performance under various conditions, each model unit has been pressure tested to over 300 psi.

In addition, actuators are vibration tested to OEM engineering criteria and performance tested on regular intervals. We test components for strength and durability to exceed our own strict engineering requirements.

## Advantages of Long Stroke Actuators

When compared to a standard stroke, Haldex Long Stroke Actuator provides a higher and more constant force output.

As wear and heat take effect on the foundation brake system, the extra stroke and additional output force is required to maintain braking. The result is more available power to stop your vehicle.



## Haldex Gold Seal Piggyback Replacement Kit

After years of faithful service, it may become necessary to replace your Gold Seal Actuator. Order the genuine Haldex Gold Seal Piggyback Replacement Kit. The kit includes one each of the Gold Seal Piggyback actuator, a premium Haldex service diaphragm and a new double clamp assembly. For ease of handling each kit is individually boxed.

Your replacement kit carries the same warranty as the original equipment, four-year unlimited mileage. Step up to a six-year unlimited mileage warranty with a Life Seal Piggyback Replacement Kit.

Contact the Haldex Technical Service Department at 800-643-2374 for additional details.



PART NUMBER: GP3030K  
TO MINIMIZE SERVICE SIDE AIR LEAKS, HALDEX RECOMMENDS REPLACING BOTH THE SERVICE CLAMP AND SERVICE DIAPHRAGM DURING PIGGYBACK REPLACEMENT.

## Haldex Actuator Product Offering

Gold Seal – 12 available sizes

Service Chambers – 11 available sizes

Clamp Style – 5 available sizes

Wedge Brakes – 2 service chambers and 4 double diaphragm available sizes

Air Disc Service Chambers – 3 available sizes

Air Disc Double Diaphragm – 4 available sizes

Blue Seal – 3 available sizes for the European Market

Anchorlok and Maxibrake Products – including the R-Series, Camtite and Type 50 actuators.

## Stopping starts with Haldex

For over 80 years, Haldex technology has been bringing loads to a stop all over the world. Today, every Haldex braking solution – whether it's a single product or a complete, custom-engineered system – carries with it the lessons we've learned through decades of experience and billions of miles.

One of the lessons we've learned is the importance of innovation. That's why we're constantly developing and refining all of our braking technologies. We're discovering new ways to boost the effectiveness of individual components – and better ways to integrate them into systems that take braking performance to new levels.

We've learned that once a solution has been properly designed, it must be properly produced. As a result all of our global manufacturing facilities and processes are ISO 9001 certified. But Haldex production must continuously meet an even higher set of standards: our own. Consequently, Haldex specifiers and users know they can put complete confidence in our braking solutions.

One thing we've always known is that proper service is essential. Whether it's specification assistance, custom design and integration support, computerized inventory management, or fast order fulfillment, we work closely with those who specify, sell and use Haldex technology.

Braking solutions that are designed better, built better and supported better. That's what you can expect from Haldex. And you shouldn't settle for less.

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### Commercial Vehicle Systems

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