The conventional raise and lower kits listed in the table below can be replaced with one of the Colas® Valve options.

**COLAS® Features & Benefits**
- Works with single or dual height control valve systems
- Solid Structure allows for external installation in horizontal and vertical orientations
- Manual or Automatic return to side height functions to eliminate operator error
- One component with push in fittings eliminates complicated plumbing and reduces the potential for leaks

**ILAS III® Features & Benefits**
- Fully Automatic or Manual options available
- Responds to the pressure in primary suspension air bags and single or dual height control valve systems
- One component reduces assembly time and complicated plumbing and reduces the potential for leaks, eliminating operator error
- Solid Structure allows for external installation in horizontal and vertical orientations

<table>
<thead>
<tr>
<th>Lift Axle Kits</th>
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<th>L20650 1/4” PTC</th>
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Air Suspension System Valves

**Commercial Vehicle Systems**

[www.haldex.com](http://www.haldex.com)
For over thirty-five years Haldex has been a leader in suspension valve technology. Our Controlled Response (CR) Height Control Valve has been used in the industry for many years and our Precision Response (PR) Height Control Valve offers technology and modularity to decrease installation time and survive the toughest conditions.

As the industries technology has advanced, vehicle systems have become even more complex. The use of lift axles and the need for variable deck heights has created complex systems with many components, fittings and potential leak paths. Haldex offers the ILAS III® lift axle valve and COLAS® Raise Lower valve to simplify these systems.

The ILAS III and COLAS offer more than just the function of raising and lowering of a lift axle or deck of a trailer. These valves offer an automatic feature unique to each valve. The ILAS III can automatically lower and raise lift axles without operator intervention. The COLAS can automatically reset deck height to the normal ride height of the trailer without operator intervention.

These features are what add value, reduce time and increase profitability for your company.

**ILAS III® Lift Axle Control Valve**

The ILAS III® Valve controls the lifting of one or more axles by sensing a load through the primary air suspension. Manual and Fully Automatic versions are available. The Manual version automatically lowers a lift axle when a load is present and is manually raised by pushing in a button. The Fully Automatic version can raise and lower the axle without manual intervention. The ILAS III® Valve takes the place of current systems which use multiple components, fittings and plumbing.

In using the ILAS II, the valve operates the lift axle as needed. This means that there is a reduction in wear on tires, brakes, wheel bearings and other components in the system. The ILAS II eliminates operator dependence and thus reduces time and added effort of the operator to control the lift axle.

**COLAS® Axle Control Valve**

The COLAS® Valve can be used to manually raise and lower the deck height of commercial vehicles and trailers. The COLAS® Valve takes the place of current systems which require multiple components, fittings and plumbing. When connected in the manual operation, the valve can be used in mobile conditions.

The optional automatic reset feature for the COLAS® Valve is used in static conditions. When the emergency brakes on the trailer are engaged the COLAS® can be used to raise and lower the deck height of the trailer. When the emergency brakes are released, the handle pops out and automatically returns to normal ride height. This feature eliminates the dependence of the operator to reset the valve to normal ride height.
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The optional automatic reset feature for the COLAS Valve is used in static conditions. When the emergency brakes on the trailer are engaged the COLAS can then be used to raise and lower the deck height of the trailer. When the emergency brakes are released, the handle pops out and automatically returns to normal ride height. This feature eliminates the dependence of the operator to reset the valve to normal ride height.

**ILAS III® Lift Axle Control Valve**

The ILAS III® Valve controls the lifting of one or more axles by sensing a load through the primary air suspension. Manual and Fully Automatic versions are available. Both versions offer an adjustable pressure range to meet any lift axle application. The Manual version automatically lowers a lift axle when a load is present and is manually raised by pushing in a button. The Fully Automatic version can raise and lower the axle without manual intervention. The ILAS III® Valve takes the place of current systems which use multiple components, fittings and plumbing.

In using the ILAS III, the valve operates the lift axle as needed. This means that there is a reduction in wear on tires, brakes, wheel bearings and other components in the system. The ILAS III eliminates operator dependence and thus reduces time and added effort of the operator to control the lift axle.

---

**ILAS III® Lift Axle System**

**Conventional Lift Axle System**

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<thead>
<tr>
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<th>Fittings</th>
<th>Components</th>
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**COLAS® Suspension System**

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<th>Port</th>
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<th>Fittings</th>
<th>Components</th>
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</table>

---

**Reduce System Complexity**

**Improve Vehicle Performance**

**Reduce Operational Cost.**
For over thirty-five years Haldex has been a leader in suspension valve technology. Our Controlled Response (CR) Height Control Valve has been used in the industry for many years and our Precision Response (PR) Height Control Valve offers technology and modularity to decrease installation time and survive the toughest conditions.

As the industries technology has advanced, vehicle systems have become even more complex. The use of lift axles and the need for variable deck heights has created complex systems with many components, fittings and potential leak paths. Haldex offers the ILAS III® lift axle valve and COLAS® Raise Lower valve to simplify these systems.

The ILAS III and COLAS offer more than just the function of raising and lowering of a lift axle or deck of a trailer. These valves offer an automatic feature unique to each valve. The ILAS III can automatically lower and raise lift axles without operator intervention. The COLAS can automatically reset deck height to the normal ride height of the trailer without operator intervention. These features are what add value, reduce time and increase profitability for your company.

**Air Suspension System Valves**

- **COLAS® Axle Control Valve**
  - The COLAS® Valve can be used to manually raise and lower the deck height of commercial vehicles and trailers. The COLAS® Valve takes the place of current systems which require multiple components, fittings and plumbing. When connected in the manual operation, the valve can be used in mobile conditions.
  - The optional automatic reset feature for the COLAS Valve is used in static conditions. When the emergency brakes on the trailer are engaged the COLAS can then be used to raise and lower the deck height of the trailer. When the emergency brakes are released, the handle pops out and automatically returns to normal ride height. This feature eliminates the dependence of the operator to reset the valve to normal ride height.

- **ILAS III® Lift Axle Control Valve**
  - The ILAS III® Valve controls the lifting of one or more axles by sensing a load through the primary air suspension. Manual and Fully Automatic versions are available. Both versions offer an adjustable pressure range to meet any lift axle application. The Manual version automatically lowers a lift axle when a load is present and is manually raised by pushing in a button.
  - The Fully Automatic version can raise and lower the axle without manual intervention. The ILAS III® Valve takes the place of current systems which use multiple components, fittings and plumbing.
  - In using the ILAS III® Valve, the valve operates the lift axle as needed. This means that there is a reduction in wear on tires, brakes, wheel bearings and other components in the system. The ILAS III® eliminates operator dependence and thus reduces time and added effort of the operator to control the lift axle.

**Conventional Raise Lower System**

- **Components**
  - Port 11: From Height Control Valve
  - Port 1: From supply tank
  - Port 21: To suspension air bags
  - Port 22: Aux air bag port

- **Fittings**
  - 1/4" (Installation Required)
  - 1/2" (Installed)

- **Reset**
  - Manual or Automatic

**Conventional Lift Axle System**

- **Components**
  - Port 1: Supply
  - Port 2: Lift Axle Suspension Air Bag
  - Port 22: Lift Axle Suspension Air Bag

- **Fittings**
  - 1/4" (Installation Required)

- **Operation**
  - Automatic Operation
  - Manual Operation

**COLAS® Suspension System**

- **Components**
  - Port 1: from supply tank
  - Port 21: To suspension air bags
  - Port 2: Aux air bag port

- **Fittings**
  - 3/8" (Installed)
  - 3/4" (Installation Required)

- **Operation**
  - Automatic Operation
  - Manual Operation
Haldex offers proprietary vehicle technology solutions to the global vehicle industry within specific areas. We focus on products to improve safety, the environment and vehicle performance.

As an enhancing our competitive capabilities and delivering high-quality and innovation through high-performance, we hold costs to the minimum through our product line. In the long term, we maintain. Haldex operations are divided into four vehicle systems: Commercial Vehicle Systems, Hydraulic Systems, Garphyttan Vehicle Systems, and Air Systems.

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The conventional raise and lower kits listed in the table below can be replaced with one of the Colas® Valve options.

**COLAS® Features & Benefits**
- **Fully Automatic**
- **Manual or Automatic** return to side height functions to eliminate operator error.
- **One component with push in fittings eliminates complicated plumbing and reduces the potential for leaks.**

**BENEFITS**
- One component with push in fittings eliminates complicated plumbing and reduces the potential for leaks.
- Solid Structure allows for external installation in horizontal and vertical orientations.
- Works with single or dual height control valve systems.

**Lift Axle Kits**
- **42130006**
- **42130004**
- **42130003**
- **42130059**
- **42130053**
- **42130014**
- **42130012**
- **42130005**
- **42130004**
- **42130003**

**Replacement Part Numbers**
- **3/8” PTC**
- **1/4” PTC**

**COLAS II® and COLAS®**

**Air Suspension System Valves**

**L20650**

**Rm. 10/08**

1/4” PTC 3/8” PTC

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**Lift Axle Kits**
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- **42130014**
- **42130012**
- **42130005**
- **42130004**
- **42130003**

**Replacement Part Numbers**
- **3/8” PTC**
- **1/4” PTC**

**ILAS III® and COLAS®**

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ILAS III® and COLAS® options shown.

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**COLAS® Features & Benefits**
- **Fully Automatic**
- **Manual Lift**

**Air Suspension System Valves**

**L20650**

**Rm. 10/08**

1/4” PTC 3/8” PTC

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**Vehicles**
- **Group**
- **Buick**

**Commercial Vehicle Systems**

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**Vehicles**
- **Group**
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**Commercial Vehicle Systems**

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**Vehicles**
- **Group**
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**Commercial Vehicle Systems**

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The conventional raise and lower kits listed in the table below can be replaced with one of the Colas®’ Valve options.

**COLAS® Features & Benefits**
- Works with single or dual height control valve systems
- Solid Structure allows for external installation in horizontal and vertical orientations
- Manual or Automatic return to ride height functions to eliminate operator error
- One component with push in fittings eliminates complicated plumbing and reduces the potential for leaks

The lift axle systems listed in the table below can be replaced with one of the two ILAS® II options shown.

**ILAS® II Features & Benefits**
- One component reduces assembly time and complicated plumbing
- Responds to the pressure in primary suspension air bags and automatically lowers the lift axle when loaded
- Evenly distributes the load between the axles
- Adjustable lift and lower pressures
- Fully Automatic or Manual options available

---

**Air Suspension System Valves**

- **COLAS®**
- **ILAS III®**

---

**Commercial Vehicle Systems**

- Haldex Brake Products GmbH
- Haldex do Brasil Ind. e Com., Ltda.
- Haldex International Trading Co. Ltd.
- Haldex Brake Products Corp.
- Haldex Korea Ltd.
- Haldex N.V./S.A.
- Haldex Italia Srl.
- Haldex WIEN Ges.m.b.H.
- Haldex India Limited
- Haldex Brake Products AB
- Haldex Brake Products Ltd.
- Haldex Brake Products GmbH

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