More than 1 Million ProVia parts are on the road now!
Dear ProVia Customer,

I’m very pleased that you have in your hands a copy of the all-new ProVia catalog, 2020 edition.

When ProVia launched in 2016, the five product groups on offer barely required a catalog. Four years into our journey, however, this is a substantial guide, featuring 30 product groups and around 300 commercial vehicle products with more 2000 OE applications.

2019 was a special year for ProVia. Our one–millionth part was installed on a vehicle, we relaunched an improved website, and released our first mobile phone App. We are committed to further expanding our product range, and we hope and expect 2020 to be another big year.

We can make these plans because of the great faith and loyalty our customers have demonstrated over the last five years in backing our brand. ProVia has filled a market need for a reliable, economical aftermarket range backed with a guarantee of quality from a trusted name. We fully intend to build our offering on that foundation — and we understand that listening to our customers is a vital part of our business. We’ll be working hard in 2020 to make communication easier, and to make our various sources of information more interactive with greater accessibility. Our digital communications and portals are going from strength–to–strength — but there’s still a place for a physical catalog like this one.

Within these pages, you’ll see details of our most recent launches — marked as NEW — and also information on the products we will roll–out in the next quarter. I hope you find our catalog informative, and I trust these products will be useful to your customers in 2020.

Krzysztof Bielec
ProVia Business Line Leader

ProVia is a commercial vehicle budget spare parts brand that delivers reliable performance, with no frills, yet no compromise on quality or safety for trucks, buses, and trailers.

ProVia is available to distributors, workshops and fleet operators serving the commercial vehicle industry worldwide.

For more information, visit www.provia-auto.com
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“ProVia comes from a good family”

WABCO
The OE Choice

WABCO REMAN SOLUTIONS
Restored to Original Performance

ProVia
Reliable Spare Parts

WABCO
Enabling Quality Repairs

Original Parts
OE Certified Premium Quality

Remanufactured Parts
Economic OE Quality

Budget Parts
Designed for the Aftermarket

Repair Kits
OE Quality Components

Introducing ProVia, the smart and reliable alternative for budget spare parts
# ProVia is the smart budget alternative

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<thead>
<tr>
<th>WABCO family</th>
<th>ProVia</th>
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<td><strong>Product</strong></td>
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<tr>
<td><strong>Product Range</strong></td>
<td><strong>Premium range</strong> of innovative, high technology, OE certified spare parts.</td>
<td><strong>Budget, no frills</strong> spare parts range with <strong>no compromise on safety</strong> and <strong>constant availability</strong>. Range with a <strong>reduced number of parts</strong>, fit to repair a large number of OE references.</td>
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**Services**

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<th>WABCO premium ordering system, allowing quick and efficient order processing and delivery</th>
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<td>Ordering quantities</td>
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<td>Claims handling</td>
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<td>Technical (field) support</td>
<td>Quick &amp; easily accessible support</td>
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<td>Warranty</td>
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<td>Repair Kits</td>
<td>Full range</td>
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Don’t compromise on safety and reliability!

No compromise on safety ✨
Reliable performance ✨
Competitive price ✨

Opportunity!!
Hungry for more ProVia information?

Visit ProVia Homepage
It will provide you with the fresh information about new launches, materials download and more ...

www.provia-auto.com

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The online ProVia Product Catalog App grants you immediate access to a comprehensive product database.

Follow Facebook Fan Page
It will give you the newest information about ProVia events, quizzes, products and initiatives

www.facebook.com/ProViaSpareParts/

Take the hassle out of your working day and go digital!
Air Dryer

Air dryers are installed between the air compressor and the reservoir on commercial trucks and buses. They are designed to filter out humid air and other contaminants before they are able to reach the vehicle’s downstream pneumatic systems. The ProVia air dryer, in combination with the ProVia cartridge, is the first line of protection to a vehicle’s air compression system.

About
- Universal design which covers multiple OE applications
- Produced in Europe for global market needs

Key Features
- High quality cartridge delivering outstanding drying performance in the field
- Long durability in the system life cycle
- Installed with a ProVia cartridge (M39×1.5 right-hand thread, easy assembly and disassembly)
- High corrosion resistance thanks to surface protection
- Separate ProVia heater available as an option

Standards & Quality
- Working pressure: 13 bar

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<th>Feature</th>
<th>OE Original</th>
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<td>System life time (cycles)</td>
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<td>Cartridge drying performance</td>
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<td>Corrosion resistance (hours)</td>
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*Average low specification alternative product
## Cross References ProVia Air Dryer

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Air Processing Unit

The ProVia air processing unit (APU) is a two-part system comprising a ProVia air dryer and a ProVia multi-circuit protection valve. It will dry and clean air supplied by the compressor, adjust pressure for the respective load circuits and provide overload protection.

About
- Universal design covering multiple OE parts. Utilises the same position and installation method as OE components. Compatible with a wide range of OEM trucks and off-highway vehicles in heavy, medium and light-duty markets.
- Optimised and economical two-part system consisting of ProVia air dryer PRO 400 001 0 and ProVia multiple circuit protection valve PRO 934 005 0
- Available with optional ProVia heater

Key Features
- Secures the pressure of the individual load circuits relative to each other and relative to atmospheric pressure.
- In cases of circuit failure, will maintain pressure in the other circuits at the prescribed level. Subsequent operation of the system will allow pressureize circuits to be refilled to the opening pressure of the failed circuit.
- Longer life component with significantly better drying performance and reliability when tested against other budget brands.

Standards & Quality
- Max. operating pressure ≤13 bar
- Thermal operating range –40 °C to 80 °C

<table>
<thead>
<tr>
<th>Feature</th>
<th>OE Original</th>
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*Average low specification alternative product
## Cross References ProVia Air Processing Unit

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**Discover the ProVia Product Catalog App**

- [Download on the App Store](#)
- [ACTIVIT ON Google Play](#)

- [www.wabco.info/i/1258](#)
- [www.wabco.info/i/1075](#)
Heater

A heater can be fitted to an air dryer and air processing unit as an option. ProVia recommends the use of a heater as part of the air dryer system, ensuring the system operates at a normal operating temperature and to protect it in low temperature environments.

About
- Separate heaters can be ordered as an option
- Produced in Europe for global market needs

Key Features
- High power efficiency
- Designed to fit between heater and body connection
- 70W

<table>
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Application

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Cartridge

Inside the pneumatic system, the air dryer cartridge is an important, safety-relevant component. Installed between the compressor and reservoirs a cartridge is the first line of defense protecting a vehicle’s air system.

About
- Outstanding performance in the budget cartridge business thanks to high quality moisture absorbing material
- ProVia is able to serve multiple OEM cross references in different vehicle applications
- Recommended mainly long distance operation without much stop-and-go, braking, etc.
- Different cartridges based on water/oil separation, drying performance and thread size

Key Features
- Cartridges prevent humid air entering into the system protecting it from corrosion and freezing

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ProVia number | PRO 124 002 2 | PRO 010 200 2 | PRO 124 000 2 * | PRO 124 7012

Product

| Technology | Standard | Standard | Standard | Coalescing |
| Filter     | Water    | Water    | Water    | Water, Oil |
| Operating pressure | ≤10 bar | ≤13 bar | ≤14 bar | ≤13 bar |
| Port       | M39×1.5 right-hand thread | M39×1.5 right-hand thread | M41×1.5 right-hand thread | M39×1.5 right-hand thread |

* Average low specification alternative product

Coming soon
## Cross References ProVia Cartridge

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Multiple Circuit Protection Valve

The multiple circuit protection valve (MCPV) from ProVia provides pressure protection in multi-circuit braking systems. Used in a truck braking system, an MCPV distributes compressed air, adjusts pressure to the respective circuits and protects healthy circuits in cases of circuit failure.

About
- Distributes compressed air, adjusts pressure, protects healthy circuits in the event of circuit failure
- Universal design covering multiple OE applications
- Compatible with the widest range of trucks and buses across heavy, medium and light duty applications

Key Features
- Wide functionality including bleedback utility, pressure-limiting valve, and a bypass function between ports 21 and 22
- Fully compatible with ProVia air dryers
- Sensor-equipped for pressure level monitoring

Standards & Quality
- Max. operating pressure ≤13 bar.
- Thermal operating range for continuous operation: -40 °C to 80 °C
- Opening pressure: 9.0 bar (circuit 1+2), 7.5 bar (circuit 3+4)
- Closing pressure: ≥7.0 bar (circuit 1+2), ≥4.5 bar (circuit 3+4)
- Pressure limiting: 10.0 bar (circuit 1+2), 8.5 bar (circuit 3+4)

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Quadruple Circuit Protection Valve

The ProVia Quadruple Circuit Protection Valve (Quad) serves as a distribution point securing pressure in a multi-circuit vehicle air braking system. In the case of one circuit failing, pressure in the other circuits will be maintained at a prescribed level. Subsequent operation of the system will allow working circuits to be refilled to the opening pressure of the failed circuit.

About
- Designed and manufactured in Europe by aftermarket specialists, created for the requirements of aftermarket customers
- Distributes compressed air to multiple circuits in a vehicle air braking system. Compatible with a wide range of OE systems
- Priority charging for foot brake circuits. Widely configurable, featuring protection in case of circuit failure

Key Features
- Mounted after the compressor and air dryer (where fitted)
- In normal operation functions in a similar manner to a manifold block
- Longer life component that other budget brands, zero compromises on safety
- Controlled bypass functionality increases service brake circuits filling speed
- Different variants with predefined opening and closing pressure, for different quantity of circuits and ports
- Bleedback function
- Pressure limiting and measurement functionality available on demand

Standards
- Max. operating pressure: 13 bar
- Thermal operating range: -40 °C to 90 °C
- Opening / closing pressure: variant dependant — wide range of OE numbers covered
- Two types available: QUAD (5 ports) and MP7 (7 ports)

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Pressure Limiting Valve

Pressure limiting valves help ensure system pressures are kept below a desired upper limit and maintain a set pressure in relevant parts of the circuit. Most pneumatic systems are designed to operate within a preset pressure range. Without controlling or limiting these forces, power components (and expensive equipment) could be damaged. The valves prevent the buildup of excessive pressure or vacuum which can unbalance the system. They are the safeguards which limit maximum pressure in a system by releasing it when it gets too high.

About
- Universal design to cover multiple OE applications: serving around 100 OEM cross references with 28 variants
- Jointly developed in Europe and India for global market needs
- Produced in Europe

Key Features
- Reliable operating lifetime, reducing replacement rates
- Strong corrosion resistance

Standards
- Normal operating pressure of 10 bar, with maximum of 20 bar
- One mounting hole of Ø 8.6 mm to accommodate M8 stud
- Two mounting holes of Ø 8.6 mm with 56 mm pitch

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# ProVia Pressure Limiting Valve

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Compressor Cylinder Head

ProVia offers competitive compressor repair solutions for commercial vehicles of all types, providing reliable performance at an attractive price. The range now includes a replacement cylinder head to control airflow through the compressor, compatible with a wide range of trucks and buses in the heavy, medium and light vehicle markets.

About
- Universal design compatible with a wide range of global OE applications in diverse commercial vehicle market sectors
- Manufactured from superior steel grades for better heat-exchange performance and extended product life
- Produced in Europe

Key Features
- Designed for high-temperature applications
- Superior cooling performance to budget brand alternatives
- Enhanced surface protection and excellent durability

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*Average low specification alternative product.
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### Cross References ProVia Compressor Cylinder Head

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Foot Brake Valve

The ProVia foot brake valve (FBV) is used for precise pressurisation and purge of pneumatic dual-circuit braking systems, actively controlling the braking process. It works in harness with actuating mechanisms across an extensive range of commercial vehicles. It is designed to secure both air circuits, allowing the vehicle to be operated safely at all times.

About
- Universal design compatible with a wide range of global OE applications

Key Features
- Highly reliable due to robust design, zero compromises on safety
- Long durability and high corrosion resistance, proven in the 96 h Neutral Salt Spray Test
- Pressure predominance of Circuit One versus Circuit Two is 0.15 bar to 0.3 bar
- Total travel until stop is available from 12.5 mm to 15 mm

Standards & Quality
- Meets performance standard ECE-R13
- In addition to ECE-R13, the FBV undergoes diverse additional assessments including a 96 h Neutral Salt Spray Test

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## Cross References ProVia Foot Brake Valve

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Hand Brake Valve

Through ProVia’s hand brake valve a sensitive graduated actuation of the auxiliary brake and operation of the parking brake system is enabled. Active braking control is possible based on a precise air pressure regulation in a dual-circuit brake system. By gradually releasing the air from the connected Tristop™ or spring brake actuators the hand brake valve enables a controlled deceleration of the vehicle.

About
- ProVia range covers the most popular devices for the European market
- Left and right hand variants are available

Key features
- Pressure levels in all circuits are kept in tolerance during whole device life-time
- Reliable operating lifetime, reducing replacement rates
- Strong corrosion resistance
- Thermal operating range: -40 °C to 80 °C

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### Cross References ProVia Hand Brake Valve

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Relay Valve

Relay valves rapidly increase or decrease the pressure of compressed air and shorten the response and pressure build-up times in air braking systems. Relay valves not only help to rapidly pressurize the brake cylinders, but also act as quick-release valves when the brakes are released.

About
- A product range of highly reliable valves with consistent high quality level. These are designed to serve as spare parts for your commercial vehicle (truck, trailer & bus)
- With a range of 11 variants today, ProVia is able to serve around 70 OEM references

Key Features
- Enhanced safety and improved vehicle handling
- Universal design
- Snap fit silencer
- Exhaust spout is part of the lower body for silencer fitment in field if required
- Thermal range: -40 °C to +80 °C

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<th>Feature</th>
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<tr>
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Double signal port: * Service brake; ** Parking brake

* Average low specification alternative product
## Cross References ProVia Relay Valve

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Trailer Release Valve

The ProVia trailer release valve (TRV) releases the brakes on an uncoupled trailer, allowing it to be moved independent of the tractor unit. The TRV has been designed as a cost-effective alternative to OE components with no compromise on safety. It is available in a range of variants, designed for compatibility with a wide choice of OE systems.

About
- Available as a discharge valve with flange, without flange and as a double discharge valve
- Five variants, compatible with a comprehensive range of OE systems

Key Features
- Release function to move an uncoupled trailer
- High corrosion resistance, proven in the 96 h Neutral Salt Spray Test
- Long-life durability compared to budget alternatives
- Robust design, highly reliable

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* Average low specification alternative product
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Relay Emergency Valve

A ProVia relay emergency valve (REV) controls a two-line trailer brake system actuated by the braking system of the tractor. The product controls the emergency brake function, triggering automatic trailer braking when a partial or total pressure drop is detected in the supply line.

About
- Three variants with predominance function, two variants with release function to move the trailer manually. Compatible with a comprehensive range of OE brake systems

Key Features
- Release function to move the trailer manually
- Automatic braking function in case of supply line evacuation or tractor/trailer disconnection
- High corrosion resistance, as demonstrated in the 96 hours Neutral Salt Spray Test
- Highly reliable, long-life durability compared to budget alternatives

Standards & Quality
- Meets performance standard ECE–R13
- In addition to ECE–R13, the REVs undergo diverse additional tests, including a 96 hours Neutral Salt Spray Test

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[Download on the App Store](http://www.wabco.info/i/1258)
[ACTIV ON Google Play](http://www.wabco.info/i/1075)
Wheel Speed Sensor

A wheel speed sensor (WSS) is a device designed to read the speed of a vehicle’s wheel rotation. The system also monitors the proper functioning of a range of features, including brake performance, ensuring vehicle safety. ProVia wheel speed sensors are contactless and use alternating voltage outputs to correspond to the actual wheel speed rotation, passing the information to the vehicle’s electronics system.

About
- ProVia wheel speed sensors have an universal design to cover a majority of OE applications.
- A unique clamping bush and grease pack is included for all variants.
- With 17 variants, ProVia is able to serve a range of about 130 OEM cross references.

Key Features
- A short coil twist design ensures reduced noise generated to the ECU which avoids malfunction.
- A robust crimped connection between sensor head and cable.
- Performs reliably in temperatures up to 150 °C.

Standards & Quality
- Mounting: Standard Head Dimensions
- Interface: Standard End Connectors
- Thermal range: coil area: -40 °C ... +200 °C
  sensor head: -40 °C ... +150 °C
  sensor cable: -40 °C ... +180 °C
  end connector: -40 °C ... +80 °C

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Brake Chamber

With ProVia’s brake chamber, the air pressure is converted efficiently into mechanical output force to brake the vehicles. ProVia provides customers another cost attractive and TÜV certificated option of Brake Chamber with outstanding performance and trustworthy operation.

About
- ProVia Brake Chamber has an universal design to cover multiple OE devices/applications
- Reliable and longer lasting operating cycle with high corrosion resistance compared to other budget brake chambers
- Better quality in preventing leakage from the air chamber
- Wide range of working temperature tolerance

Key Features
- Up to 1 million life cycles for chamber
- 96 hours corrosion resistance
- Working temperature: -40 °C ... +80 °C
- Maximum working pressure: 10.2 bar

Standard & Quality
- TÜV certificate
- Stroke length 57.0/63.5/76.2 mm

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* Average low specification alternative product
### ProVia Brake Chamber Disc – Dimensions and technical details

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- **Mounting bolt spacing:** 120.7 ±0.5 mm
- **Push rod ball radius:** R8 –0.1
- **Mounting bolt thread:** M16×1.5
- **Cylinder length (B):** 42.5 ±2 mm
- **Side port thread (E):**
- **Top port thread (D):**
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Spring Brake Actuator

Spring brake actuators consist of both a service and a parking chamber. The air pressure applied into the service chamber is converted into mechanical output force. The parking chamber provides the mechanical braking force to park the vehicle. In addition, a mechanical release arrangement is provided in the unit to release the parking brake after brake failure.

About
- Universal design to cover a wide range of OE applications
- Company engineers concluded that ProVia spring brake actuators show a much higher corrosion resistance, higher max. operating pressure (13 vs. 10 bar) and higher OEM coverage in comparative tests with similar budget parts
- With only few variants, ProVia is able to serve an impressive range of more than 200 OEM cross references

Key Features
- Much longer lifetime and better corrosion resistance reduces the replacement rate of this component compared to other budget parts
- Internal Breathing Valve (IBV) provides clean and dry air protection against aggressive environmental conditions extending the lifetime of the device. Most competitor chambers breathe with external holes in the rear housing

Standards & Quality
- Max. Operation pressure up to 13 bar
- Stroke length 57 / 65

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<th>ProVia</th>
<th>Aftermarket Average*</th>
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* Average low specification alternative product
**ProVia Spring Brake Actuator Cam**

Force of return spring: **190 N**, Output pressure: **6.5 bar**, Shape Non Pressure Chamber: **cross**

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<th>Push-rod thread (D)</th>
<th>Type of fixing yoke</th>
<th>Connection (E)</th>
<th>Port / Fitting</th>
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**ProVia Spring Brake Actuator Disc**

Force of return spring: 220 N, Output pressure: 6.5 bar, Shape Non Pressure Chamber: oval

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|          | 867215     |
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| Faymonville | 84233    |
| Liebherr | 571538008  |
| MAN      | 81504106608|
|          | 81504106609|
|          | 81504106610|
| Scania   | 1935401    |
|          | 1935471    |
|          | 2089719    |
| Schmitz Cargobull | 1020765  |
|          | 1020766    |
| Terberg Benshop | V1573854  |
| PRO 4210040 | |
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| Scania   | 1446052    |
| Volvo    | 20986736   |
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| DAF      | 1505115R   |
|          | 1505199R   |
| Scania   | 1313819    |
|          | 1313821    |
|          | 1313822    |
|          | 1372909    |
|          | 1372910    |
|          | 1372911    |
|          | 1412859    |
|          | 1412860    |
|          | 1446042    |
|          | 1446043    |
|          | 1446048    |
|          | 1446049    |
|          | 1446050    |
|          | 1505334    |
|          | 1505335    |
|          | 1505336    |
| Scania   | 1313823    |
|          | 1367493    |
|          | 1446056    |
|          | 2385751    |
|          | 571788     |

| PRO 432 0010 | |
| EvoBus     | A0114205818|
|            | A0114205918|
|            | A0144200018|
|            | A0144200118|
| Knorr–Bremse | I137276 |
| Mercedes–Benz | A0114205818|
|            | A0114205918|
|            | A0144200018|
|            | A0144200118|
| Scania     | 1313823    |
|            | 1367493    |
|            | 1446056    |
|            | 2385751    |
|            | 571788     |
| Scania     | 1505338    |
| Volvo      | 20466209   |

| PRO 4611010 | |
| DAF      | 884491    |
| Fontenex | 2100382    |
|          | 2100383    |
| Gigant   | 19123     |
|          | 19124     |
|          | 19125     |
## Cross References ProVia Spring Brake Actuator

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## Cross References ProVia Spring Brake Actuator

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<td>GAZ 9254920000, MAZ 9254920000</td>
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<td>Scania 1446059, 1734797</td>
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<td>PRO 492 007 0</td>
<td>DAF 1270263, 1519162, 1526572</td>
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<td>Goldhofer 151118, Iveco 5010260188</td>
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OE brand | OE number
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Kögel | 320136
MAN | 81.50410–6146, 81.50410–6674
Renault | 5010260186, 5010260187, 5010260188, 5010260348, 5010260349
Scania | 1935403, 1935448
Daimler | 21994025, 5010216959, 5010251265, 5010260960, 7421994025
Volvo | 20533210, 20533211, 21569207, 21988037, 21994025, 21994026
Double Diaphragm Spring Brake Actuator

Double diaphragm spring brake actuator (DDSB) consists of service brake chamber and a spring brake chamber. The air pressure applied into the service chamber is converted into mechanical output force. The spring chamber provides the mechanical braking force to park the vehicle. In addition, a mechanical release arrangement is provided in the unit to release the parking brake after brake failure. ProVia offers a cost attractive, high performance spring brake actuators for commercial vehicles.

About
- ProVia DDSB have an universal design to cover a wide range of OE applications
- Offers a significantly longer lifetime in terms of operating cycles and better corrosion resistance compared to many other budget actuators

Key Features
- Up to 1 million lifecycles for service chamber, up to 200,000 cycles on park chamber
- 96 hours corrosion resistance
- Working temperature: -40°C to +80°C
- Crimp design on spring brake chamber for customer safety
- Variants with yoke available

Standards & Quality
- Complying with required standards (TÜV, SAE, QCT)

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<th>Feature</th>
<th>OE Original</th>
<th>ProVia</th>
<th>Aftermarket Average*</th>
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<td>Service chamber (cycles)</td>
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<td>Park chamber (cycles)</td>
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<tr>
<td>Corrosion resistance (hours)</td>
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<td>Leakage (cm³/min)</td>
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<td>Engineering and Testing</td>
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* Average low specification aftermarket product
## ProVia Double Diaphragm Spring Brake Actuator Cam – Technical details

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<tr>
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<th>Size</th>
<th>Stroke</th>
<th>Yoke</th>
<th>Standard</th>
<th>Pressure Working</th>
<th>Pressure Maximum</th>
<th>Clamp band (A)</th>
<th>Clamp band position (B)</th>
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<tbody>
<tr>
<td>PRO 000 006 0</td>
<td>30/30</td>
<td>63.5 mm</td>
<td>✔</td>
<td>QCT</td>
<td>8.0 bar</td>
<td>10.0 bar</td>
<td>262 mm</td>
<td>90°</td>
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<tr>
<td>PRO 000 007 0</td>
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<td>76.2 mm</td>
<td>✔</td>
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<td>10.0 bar</td>
<td>262 mm</td>
<td>90°</td>
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<tr>
<td>PRO 000 008 0</td>
<td>20/30</td>
<td>76.2 mm</td>
<td>✔</td>
<td>SAE &amp; TÜV</td>
<td>8.5 bar</td>
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<td>SAE &amp; TÜV</td>
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<td>10.0 bar</td>
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**WARNING-SPRING LOADED**

**INSTALL RELEASE BOLT IN SPRING PLATE AND TIGHTEN TO CAGE SPRING.**

**WARNING**

CAGE POWER SPRING WITH RELEASE BOLT BEFORE REMOVING CLAMP RING:

- **2.50IN 64MM STROKE**
- **REMOVING CLAMP RING SPRING**
- **BRAKE TYPE 3030 SERVICE**
- **BRAKE XXXX 11**

**Port position: 90°**

*PRO 712 019 0*
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<th>Diameter (E)</th>
<th>Push-rod length (F)</th>
<th>Push-rod length + yoke (G)</th>
<th>Mounting bolt length (H)</th>
<th>Mounting bolt (J)</th>
<th>Thread (K)</th>
<th>Port (L)</th>
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<td>M16 x 1.5</td>
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### WARNING
- SPRING LOADED
- INSTALL RELEASE BOLT IN SPRING PLATE AND TIGHTEN TO CAGE SPRING.

### WARNING
- CAGE POWER SPRING WITH RELEASE BOLT BEFORE REMOVING CLAMP RING SPRING BRAKE TYPE 3030 SERVICE BRAKE

- Rubber boot: PRO 000 013 0

- Stud spacing: 120.7 mm (4.75”)

- Mounting bolt thread (J)
- Push-rod thread (K)
- Push-rod length + yoke (middle of yoke) (G)
- Cylinder length (D)
- Push-rod length without yoke (F)
- Mounting bolt length (H)
- Port thread (L)

ProVia Double Diaphragm Spring Brake Actuator Cam – Dimensions
The new ProVia pipe extension provide many benefits:

- **High standard of safety**: clear identification of parking and service ports by off-set positioning; avoiding incorrect connection.
- **Cost savings**: fast assembly due to the connections being led out from a cramped installation position. Therefore: the brake hose is easily connected.
- **Easy to handle**: fits even in restricted installation conditions. One of the most compact designs (combination of cylinder and pipe extension) on the market.

Cross References ProVia Double Diaphragm Spring Brake Actuator Disc

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Brake Pads

Brake pads convert the kinetic energy of the vehicle to thermal energy by friction. The ProVia brake pad portfolio covers the most common air disc brakes in the market. Pad kits partially enriched by accessories ensure a safe fit in major applications in the market.

About
- Highly reliable brake pad portfolio covering major Air Disc Brake applications in the market
- Most brake pads are delivered with adjusted fitting kits to ensure a safe replacement
- Produced in Europe

Key Features
- Universal fit for one brake/size type
- Portfolio consisting of various pad kits covering major brakes in the market as KNORR, WABCO, Meritor, Haldex, Bendix, BPW, TEVES and over 350 OE references

Standards
- Validation according to ECE-R90 standards. In addition to ECE-R90, the brake pads undergo diverse additional tests including the proving of braking performance in several situations (e.g. high stress), targeting high comfort (e.g. pedal feedback) and ensuring reliability and lifetime of disc and pad

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* Average low specification alternative product
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## Cross References ProVia Brake Pads

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Chassis Levelling Valve

A chassis levelling valve from ProVia provides suspension control for vehicles fitted with air springs. It precisely modulates compressed air in the suspension bellows as a ratio of the vehicle’s load. The chassis levelling valve ensures a constant ride height, charging the air suspension during loading and venting when unloading.

About

- Manufactured in Europe for the global market
- Two-function variants available: basic and height limitation with dual circuit design
- Four variants, compatible with a wide range of OE systems

Key Features

- Push-in coupling fittings in PRO 006 002 0 & PRO 006 004 0 variants
- Supply & delivery (bellow) ports include integrated air filters
- High corrosion resistance, as demonstrated in the 96h Neutral Salt Spray Test
- Highly reliable, long-life durability compared to budget alternatives

Standards & Quality

- In addition to temperature & endurance tests, the chassis levelling valve undergoes diverse additional investigation
- Integrated air filters avoid contamination and ensure excellent functionality

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Cabin Levelling Valve

A ProVia cabin levelling valve improves driver comfort by maintaining a precise cab position. For cabs fitted with an air suspension system, the CLV will preserve the correct attitude, intelligently adapting to cabin load and a wide range of road conditions.

About
- ProVia CLV variants, compatible with the widest range of trucks and buses across heavy, medium and light duty applications
- Supported by an established global network for fast delivery

Key Features
- Reliable and robust ceramic technology with polymer housing. Excellent corrosion resistance, proven in 96-hour neutral salt-spray tests, offering superior longevity to other budget brands
- Low air consumption and low weight for improved fuel economy, low noise for driver comfort. Reduced wear and low maintenance costs compared to valves with dynamic sealing

Standards & Quality
- Operating pressure: 11 bar
- Max. operating pressure: 14 bar
- Thermal range: -40 °C to +80 °C

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## Cross References ProVia Cabin Levelling Valve

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Rotary Slide Valve

A rotary slide valve controls the raising and lowering of air-suspension based vehicles with a hand lever. ProVia offers a robust, cost attractive, high performance rotary slide valve.

About
- Universal design that covers the majority of OEM references
- Robust zinc alloy handle for reliable performance and long durability
- Produced in Europe for global needs

Key Features
- High durability based on robust material reduces the replacement rate of this component compared to other budget parts
- High corrosion resistance proven in the 96h Neutral Salt Spray Test
- Low leakage rates for long durability

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<td>Production / Origin</td>
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ProVia number | Push-in fitting | Function | Max. working pressure |
---            | ---             | ---      | ---                  |
PRO 032 020 0  | —               | —        | 10.0 bar             |
PRO 032 120 0  | —               | Automatic return | 8.5 bar             |
PRO 032 220 0  | Ø 8×1.0         | —        | 10.0 bar             |

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ECAS Solenoid Valve

In Electronically Controlled Air Suspension, Solenoid valve is the interface between electronic output signals from the electronic control unit and the pneumatic actuating signals for the air suspension bellows.

About
- Eight ProVia ECAS solenoid valve variants, compatible with the wide range of trucks and buses across heavy, medium and light duty applications
- Supported by an established global network for fast delivery

Key Features
- Temperature range: -40 °C to +80 °C
- Working pressure: 5 – 13 bar
- Interface: electric connection type, pneumatic connection type, mounting screws position
- All variants (except PRO 412 004 0 and PRO 412 005 0) with silencer

Standards & Quality
- Port thread M22×1.5 according Voss 230 standard
- Electric pinned connectors according to DIN 72585 standard

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* Average low specification alternative product
### ProVia ECAS Solenoid Valve

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Replacement of ECAS1 valves by ProVia ECAS3 valves

Overview of repair kit types
A smooth changeover from an ECAS1 to an ECAS3 valve requires specific repair kits. You would need up to 3 repair kits to assure proper integration of the ECAS3 valve in the ECAS system of a vehicle. The repair kit types are shown below, grouped by their function.

Solenoid valve connection
Repair kits are used to enable the transition from a M27 single solenoid type (ECAS1) to DIN bayonet solenoids (ECAS3).

- **894 601134 2** Adapter cable (1-way)
- **472 880 929 2** Adapter cable (2-way)
- **472 880 928 2** Adapter cable (3-way)
- **472 880 930 2** 3 cables:
  - 1× Adapter cable (1-way)
  - 1× Adapter cable (2-way)
  - 1× Adapter cable (3-way)

**Electrical connection**
Repair kits assure the proper electrical port connection.
Repair kit **894 601161 2** works as an extension and sets the pin assignments in the appropriate way.
Repair kit **472 880 931 2** – without extension – also converts the pin assignment in a socket.

- **894 601161 2** Adapter (extension cable)
- **472 880 931 2** Adapter (extension and pin assignment cable)

**Voss connection**
Specific ECAS1 variants have a M16×1.5 Voss pneumatic supply port while the ECAS3 are equipped with an M22×1.5 Voss port. The repair kits enable a reduction from M22×1.5 to M16×1.5 and assure tightness. The existing pneumatic connection of the vehicle can be used.

- **472 880 932 2** Voss adapter, 2× o-rings (M22×1.5 / M16×1.5), washer
- **472 880 933 2** Voss adapter, o-ring (M22×1.5)

**Pneumatic connection**
Specific ECAS1 valves have standard metric threads on all air ports while all ECAS3 valves have Voss metric connector threads. For these valves, the repair kit **472 900 931 2** must be used to make the air connection tight.

- **472 900 931 2** 4× o-rings
**Replacement of ECAS1 valves by ProVia ECAS3 valve PRO 412 0010**

PRO 412 0010 with using repair kits below replaces the shown OE cross references.

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<tr>
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**Replacement of ECAS1 valves by ProVia ECAS3 valve PRO 412 0010**

PRO 412 0010 with using repair kits below replaces the shown OE cross references.

<table>
<thead>
<tr>
<th>OE brand</th>
<th>OE number</th>
</tr>
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<tbody>
<tr>
<td>Alexander Dennis</td>
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<tr>
<td>DAF</td>
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<td>1506152</td>
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<td></td>
<td>1505291R</td>
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<td>1506179</td>
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<tr>
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<td>U401907801</td>
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<tr>
<td>Langendorf</td>
<td>1111646</td>
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<tr>
<td>MAN</td>
<td>1169000</td>
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<tr>
<td></td>
<td>81259026154</td>
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<tr>
<td>Mercedes-Benz</td>
<td>A0003276225</td>
</tr>
<tr>
<td>Neoplan</td>
<td>11016528</td>
</tr>
<tr>
<td></td>
<td>102140300</td>
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<td></td>
<td>81259026154</td>
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<tr>
<td>Paccar</td>
<td>1505290</td>
</tr>
<tr>
<td></td>
<td>1505292</td>
</tr>
<tr>
<td>Scania</td>
<td>1105670</td>
</tr>
<tr>
<td>VDL Bus</td>
<td>1249402</td>
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<td>41249402</td>
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**OE brand** | **OE number** |
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
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<td>Scania</td>
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**OE brand** | **OE number** |
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<tr>
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Replacement of ECAS1 valves by ProVia ECAS3 valve PRO 412 002 0

PRO 412 002 0 with using repair kits below replaces the shown OE cross references.

### OE brand and OE number

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<thead>
<tr>
<th>OE brand</th>
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<td>DAF</td>
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<td>1518916</td>
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<tr>
<td>Feldbinder</td>
<td>11594</td>
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<tr>
<td>Kögel</td>
<td>324471</td>
</tr>
<tr>
<td>Krone</td>
<td>505810491/0</td>
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<tr>
<td>MAN</td>
<td>1168275</td>
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<tr>
<td></td>
<td>81259026155</td>
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<tr>
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<tr>
<td>Paccar</td>
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<tr>
<td>Renault</td>
<td>5010235153</td>
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<td>Scania</td>
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<td>Schmitz</td>
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<td>VDL Bus</td>
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<td>Goldhofer</td>
<td>164786</td>
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<td>MAN</td>
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<td>Meiller</td>
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<td>Schmitz</td>
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<tr>
<td>Scania</td>
<td>1934993</td>
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472 880 9312
Adapter (extension and pin assignment cable)
Replacement of ECAS1 valves by ProVia ECAS3 valve PRO 412 005 0
PRO 412 005 0 with using repair kits below replaces the shown OE cross references.

<table>
<thead>
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<tbody>
<tr>
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<td>Kögel</td>
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<td>Krone</td>
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<td>Neoplan</td>
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<table>
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<tbody>
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<td>Renault</td>
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<table>
<thead>
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<th>OE number</th>
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<tbody>
<tr>
<td>Irisbus</td>
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<tr>
<td>Iveco</td>
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<table>
<thead>
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<th>OE brand</th>
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<td>81259026113</td>
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<td>Renault</td>
<td>5810112384</td>
</tr>
<tr>
<td>Schmitz</td>
<td>50704</td>
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</tbody>
</table>
ECAS Distance Sensor

In Electronically Controlled Air Suspension (ECAS), a distance sensor, connected to its axle via a lever arm, monitors the distance between the axle and the vehicle body, reporting to the ECU via sensor cable. This is the starting point in the electronic truck stability control process.

About
- Four ProVia ECAS distance sensor variants. Compatible with a vast range of trucks and buses across light-, medium- and heavy-duty applications.
- A robust design offering better longevity than other budget brands. Competitively priced with zero compromises on safety.
- Designed and manufactured in Europe.

Key Features
- Reliable, inductive measurement method
- Precision rotary movement of the armature
- Adapted to operate from either side of the vehicle
- Three cross lever and one straight lever variants available

Standards & Quality
- Supply Voltage: PULSE 8 – 16 V DC
- Current consumption: max. 90 mA
- Electrical connection: Bayonet ISO 15170
- Thermal range: -40 °C to +80 °C
- Protection according to ISO 20653: IP 6K9K

<table>
<thead>
<tr>
<th>Feature</th>
<th>OE Original</th>
<th>ProVia</th>
<th>Aftermarket Average*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product life time (cycles)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engineering and Testing</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Production / Origin</td>
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<td></td>
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<table>
<thead>
<tr>
<th>ProVia number</th>
<th>Type of lever</th>
<th>Tolerance of characteristic curve</th>
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</thead>
<tbody>
<tr>
<td>PRO 412 030 0</td>
<td>Straight lever</td>
<td>t_{50}° - t_{0}° = 150±8 µs</td>
</tr>
<tr>
<td>PRO 412 031 0</td>
<td>Cross lever</td>
<td>t_{50}° - t_{0}° = 146±4 µs</td>
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<tr>
<td>PRO 412 032 0</td>
<td>Cross lever</td>
<td>t_{50}° - t_{0}° = 142±8 µs</td>
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<tr>
<td>PRO 412 033 0</td>
<td>Cross lever</td>
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* Average low specification alternative product
## Cross References ProVia ECAS Distance Sensor

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<th>OE brand</th>
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<td>Doll</td>
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<td>Faymonville</td>
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<td>Lectrailler</td>
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<td>Lohr</td>
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<td>Meiller</td>
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<td>Nootboom</td>
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<table>
<thead>
<tr>
<th>OE brand</th>
<th>OE number</th>
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<td>AIF2063</td>
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<td>Scania</td>
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<td>Schmitz</td>
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<td>Schwarzmüller</td>
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<td>Tirsan</td>
<td>2115103152</td>
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<td>VDL Bus</td>
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<td>Volvo</td>
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### PRO 412 0310

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<td>Daewoo</td>
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### PRO 412 032 0

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### PRO 412 033 0

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<td>Neoplan</td>
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</table>

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**Discover the ProVia Product Catalog App**

Download on the [App Store](https://www.wabco.info/i/1258) or [Google Play](https://www.wabco.info/i/1075)
Coiled & Straight Tubes

ProVia coiled tubes are applied to pneumatic braking systems as a flexible connection between the towing vehicle and semi-trailer.

**About**
- A multilayer coiled tube
- The external layer of PA12 provides resistance to particular hazardous factors and works as a wear indicator
- Reduced complexity as ProVia variants are compatible with a wide range of OE systems

**Key Features**
- Anti-kink part to prevent damaging coil
- Brass fittings
- Thermal range: from -40 °C to +100 °C

**Standards**
- All ProVia tubes fulfill the ISO7628 standard
- In addition coiled tubes are certified according to ISO7375

---

### Coiled Tubes

- Standard: ISO 7375 / ISO 7628
- Color: Black, Size: 12×1.5 mm
- Working Length: 4 m
- Max. operating pressure: 10 bar

### Straight Tubes

- Standard: ISO 7628
- Color: Black
- Working Length: 25 m
- Max. operating pressure: 12.5 bar

---

### Feature Comparison

<table>
<thead>
<tr>
<th>Feature</th>
<th>OE Original</th>
<th>ProVia</th>
<th>Aftermarket Average*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material structure</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Dimensions</td>
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<tr>
<td>Flexibility</td>
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<tr>
<td>Chemical resistance</td>
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<tr>
<td>Temperature range (°C)</td>
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<td>Surface protection of fittings</td>
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<td>Quality standard</td>
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### ProVia Tubing Table

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<th>Fittings</th>
<th>Kink protection colour</th>
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<tbody>
<tr>
<td>PRO 711 056 0</td>
<td>M16×1.5 male / M16×1.5 male</td>
<td>Red</td>
</tr>
<tr>
<td>PRO 711 057 0</td>
<td>M16×1.5 male / M16×1.5 male</td>
<td>Yellow</td>
</tr>
<tr>
<td>PRO 711 058 0</td>
<td>M22×1.5 male / M22×1.5 male</td>
<td>Red</td>
</tr>
<tr>
<td>PRO 711 059 0</td>
<td>M22×1.5 male / M22×1.5 male</td>
<td>Yellow</td>
</tr>
<tr>
<td>PRO 711 060 0</td>
<td>M16×1.5 male / M18×1.5 female</td>
<td>Red</td>
</tr>
<tr>
<td>PRO 711 061 0</td>
<td>M16×1.5 male / M18×1.5 female</td>
<td>Red</td>
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<tr>
<td>PRO 711 062 0</td>
<td>M18×1.5 female / M18×1.5 female</td>
<td>Yellow</td>
</tr>
<tr>
<td>PRO 711 063 0</td>
<td>M18×1.5 female / M18×1.5 female</td>
<td>Yellow</td>
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<table>
<thead>
<tr>
<th>ProVia number</th>
<th>Size</th>
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<tbody>
<tr>
<td>PRO 251 106 6</td>
<td>6×1.0 mm</td>
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<tr>
<td>PRO 251 108 6</td>
<td>8×1.0 mm</td>
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<td>PRO 251 110 6</td>
<td>10×1.0 mm</td>
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<td>PRO 251 112 6</td>
<td>12×1.5 mm</td>
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<tr>
<td>PRO 251 115 6</td>
<td>15×1.5 mm</td>
</tr>
</tbody>
</table>

*Average low specification aftermarket product
Coupling Head

Enables the pneumatic connection between a truck and trailer. Delivers the ability to connect two separate lines of supply and control, preventing incorrect coupling.

About
- Performance standard ISO 1728
- Simplified body design resistant to harsh weather conditions
- Robust cover protecting against dust

Truck
- Automatic
- M16×1.5
- Supply + Service Line
- Yellow + Red
- With valve

Trailer
- Standard
- M16×1.5
- Supply + Service Line
- Yellow + Red

---

<table>
<thead>
<tr>
<th>Feature</th>
<th>OE Original</th>
<th>ProVia</th>
<th>Aftermarket Average*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardening</td>
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</tr>
<tr>
<td>Product life time (coupling/decoupling cycles)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Lifetime (pressurizing and depressurizing)</td>
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<tr>
<td>Corrosion resistance (hours)</td>
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<tr>
<td>Leakage +80 °C (cm³/min)</td>
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<tr>
<td>Engineering and Testing</td>
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</tr>
<tr>
<td>Production/Origin</td>
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<tr>
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<th>Standard</th>
<th>Cover</th>
<th>Port</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>PRO 200 2210</td>
<td>Tractor</td>
<td>ISO 1728</td>
<td>Red</td>
<td>M16×1.5</td>
<td>with valve</td>
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<td>Tractor</td>
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<td>Yellow</td>
<td>M16×1.5</td>
<td>with valve</td>
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<tr>
<td>PRO 200 0210</td>
<td>Trailer</td>
<td>ISO 1728</td>
<td>Red</td>
<td>M16×1.5</td>
<td>free flow</td>
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<tr>
<td>PRO 200 0220</td>
<td>Trailer</td>
<td>ISO 1728</td>
<td>Yellow</td>
<td>M16×1.5</td>
<td>free flow</td>
</tr>
</tbody>
</table>

*Average low specification aftermarket product
Electrical Accessories

ProVia’s electrical accessory product range offers a comprehensive selection of solutions for connecting truck and trailer. The ProVia range includes sockets, plugs, adapter cables and 7-pole and 15-pole cables.

About
- Manufactured in Europe for global market needs
- Compatible with the widest range of trucks and trailers

Key Features
- ProVia electrical accessory range meets ISO standards
- Compatible with ABS (5-pole) & EBS (7-pole)
- Adapter cable allows connection from 15-pole to 2× 7-pole
- Screwed sockets with clear identification of pins, no special tools required for fitting
- Cables: 3.5 m working length; anti-kink protection; made from robust polyurethane
- Sockets: screw terminals and colour coding for easier wiring
- Plugs: seal protected

Standards & Quality
- Complete ProVia electrical accessory range is ADR/GGVS certified
- Operating range of -40 °C to +80 °C
- Coiled cable ABS/EBS 7-pole, socket 7-pin and plug 7-pole meet ISO 7638 standard
- Coiled cable 15-pole, adapter cable, socket 15-pin and plug 15-pole meet ISO 12098 standard
- Connectors meet ISO 4091 standard

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<th>Aftermarket Average*</th>
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* Average low specification alternative product
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Clutch Servo

The clutch servo enables the driver to disengage and engage the clutch with minimum clutch pedal effort. The clutch servo is a pneumatically assisted hydraulic clutch-actuating device that enables sensitive and accurate actuation of the clutch in the vehicle.

About
- The ProVia range consists of variants with brake fluid and mineral oil to meet the major OEM requirements.
- The ProVia clutch servo is the zero compromise on safety choice when original equipment quality no longer pays off in the TCO calculation of the vehicle.
- Designed to serve a large range of OE references.

Key Features
- High corrosion resistance proven in the 96h Neutral Salt Spray Test.
- Low leakage rates for reliable product performance and consistent quality.

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## Index Lists

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