

Pneumatic Solutions from Rexroth for Truck and Bus Applications



From powertrain to bus doors



Pneumatic technology offers high performance and cost efficiency

Know-how, application and adaptation engineering excellence. Best-in-class products and systems to improve performance, safety, environment, driver comfort and cost efficiency. That's pneumatics from Rexroth.



Components for mobile technology have to withstand extreme environmental conditions including wide variations in climate and high vibration levels. Quality and reliability of the components and systems are therefore of the utmost importance.

Special development and testing are necessary to meet such demanding conditions.

For over 30 years now we have worked closely with major manufacturers on the development and production of a wide range of products.

Rexroth offers an extensive program of customer-specific valves and cylinders for heavy trucks and buses.

Pneumatics

- On/off valves
- Proportional valves
- Cylinders
- Cylinder valve units
- Integrated electronics and sensors

Rexroth solutions are not just limited to one technology, they utilize also other drive-relevant technologies such as Mobile Hydraulics.

Mobile Hydraulics

- Pumps and motors
- Control valves
- Electronic controllers and sensors

For applications such as

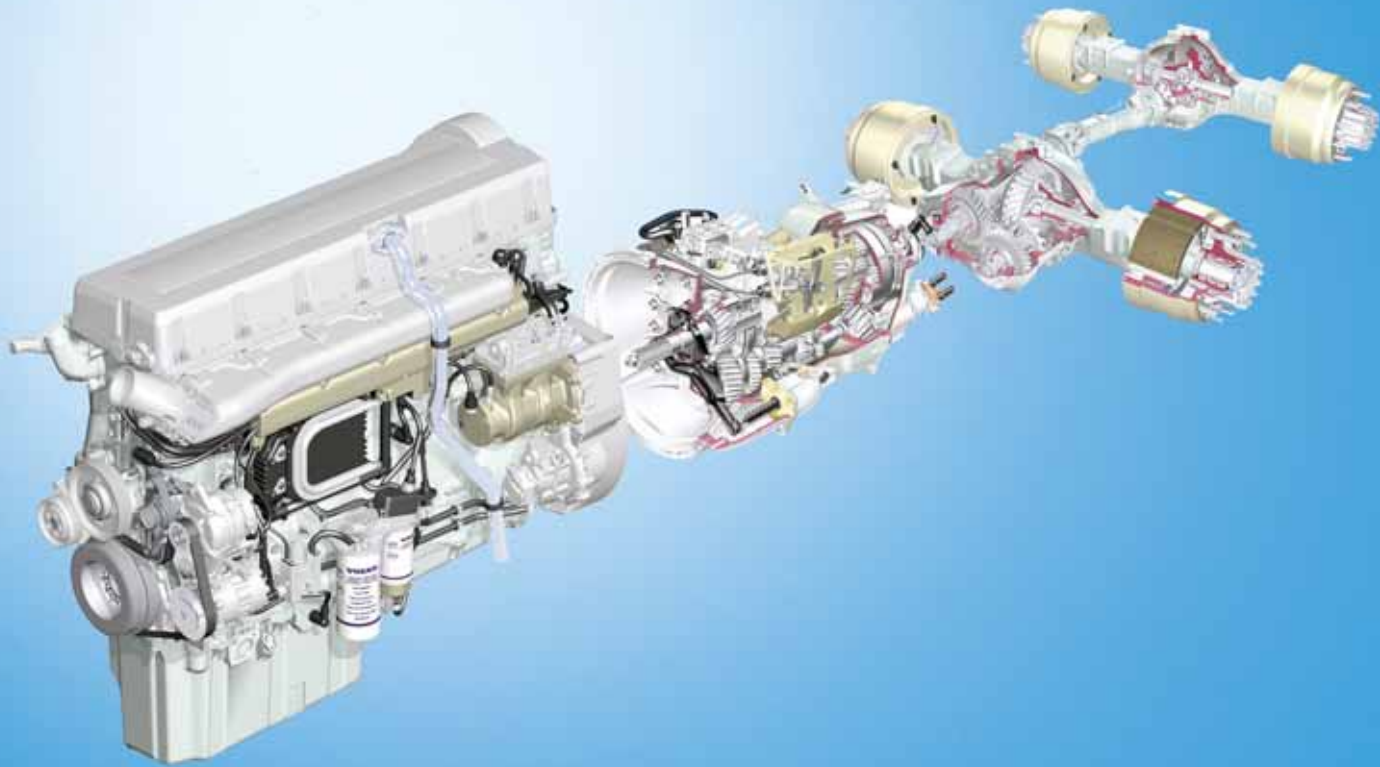
- Truck superstructure drives
- Crane drives
- Cooling fan drives

For more information see www.boschrexroth.com/truck-hydraulics



Reliable solutions for powertrain controls

Pneumatic products from Rexroth are specially developed for the toughest of environments for powertrain applications. All components are designed to perform under severe conditions including extremes of temperature, water contaminated with road salt, vibrations, flying stone chips, ice, oil and high-pressure water jet cleaning.



4/2 valves for range and split gear shifting



3/2 valves for inhibitor and interlock functions in gearboxes

Rexroth cylinders and cylinder valve units for exhaust gas recirculation in engines ensure reduction of emissions to Euro standards.

Electropneumatic control valves are suitable in variable turbo/supercharger controls for better performance as well as smooth engine braking via exhaust gas control.

Our mechanical, pneumatic, and solenoid operated valves are used to facilitate gear shifting in semi-automatic and fully automatic transmissions and clutch controls.

4/2 valves

Developed for range and split gear shifting based on well-proven spool and sleeve valve concept. Choose from solenoid, pneumatic and mechanical operated versions.

3/2 valves

Rexroth supplies robust valves for inhibitor and interlock functions in gearboxes. The mechanical operated 3/2 valves are available in normally closed and normally open versions.

Solenoid valves

Single, double or multiple 2/2 and 3/2 solenoid operated cartridge valves provide high flexibility in customized valve bodies for gearbox, clutch and engine controls.

Cylinders and cylinder valve units

Single-acting spring return cylinder with or without integrated 3/2 valve, position sensor and pigtail cable for precise control of EGR valves and gear shifting operations. These cylinders are also available for extreme high temperatures.

E/P pressure control valves

Our high-performance electro-pneumatic pressure control valve converts an electrical input into a pneumatic pressure to control engine brakes, EGR valves and turbochargers.

Valve units

Combinations of E/P pressure control, solenoid, and reducer valves are used in customized system modules for various powertrain controls.



Solenoid valves



Cylinder valve units



Cylinders and cylinder valve units



E/P Pressure control valves



Valve units

Rexroth opens doors

Pneumatic products from Rexroth are also ideal for other applications, such as controlling air suspensions, lifting axles, trailer couplings, hand brakes and bus doors.

Cylinders with integrated functions

For operating automatic bus doors, Rexroth supplies a cylinder with extended cushions, air speed controls and pressure sensor ports.

Cylinder-valve combination

Integrated unit for bus door actuation with double-action function, pressure switch, check valve, 3/2 way valve, sensor and electrical contacts.

Emergency brake valve

This 3/2 way valve with double solenoid valves benefits from redundancy for safety.



Emergency brake valve



Cylinders with integrated functions



Cylinder-valve combination

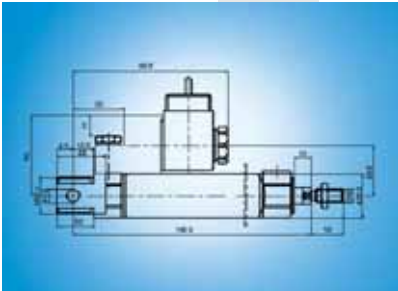


Automatic emergency brake



Bus door controls

Creativity in series



From first briefing ...



... to finished solution

Partnership in development, manufacturing and logistics

Any new Rexroth product – whether a detail solution or a total system – follows basically the same clearly structured path. From the first briefing to series production and delivery.

We work in a proven project organization with common objectives and deadlines, guaranteeing an efficient and realistic process.

The briefing with the user initiates the first creative phase of the solution finding process, which proceeds via modelling, simulation, and prototypes to the building of pre-production equipment. Proof-of-function and proof-of-concept testing are then followed by further test phases through to the start-up of series production. This is our bread and butter: creativity in series.

Quality assurance

Our aim is to win market confidence and customer satisfaction through high quality. Our process-oriented management systems are certified to QS9000/TS16949 standards.

Environmental protection

Environmentally friendly solutions are assured through development, production and logistics. Rexroth systems are certified to ISO 14001.



Certificates

Bosch Rexroth AG
Pneumatics
Ulmer Straße 4
30880 Laatzen
Phone: +49 (0)511-2136-0
Fax: +49 (0)511-2136-269
trucks@boschrexroth.se
www.boschrexroth.com/pneumatics

Your contact: