

Shifting cylinders

Suitable for: trucks and buses

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Multibrand



Shifting cylinders are pneumatic or hydraulic slave cylinders. They are employed in the gearbox shift mechanism and serve to transmit the shifting force.

In combination with pneumatic, hydraulic and electric or combined components, the shifting cylinder enables a fast and for the driver comfortable gear shifting operation.

Modern systems are equipped with an electropneumatic or hydrostatic control and can be additionally combined with a gearshift support system. The result is greater comfort and lower noise in the cab and, in addition, prevents faulty shifting.

When the driver shifts into the desired gear, mechanical power is transmitted via pneumatic or hydraulic valves or by electrical impulses via switches to the shifting cylinder.

This causes the piston with the connected push rod to move in the shifting cylinder and the subsequent shifting components are mechanically actuated.

The materials of the sealing components are adapted to the specified pressure medium. For this reason, the function of the shifting cylinder can only be guaranteed if the specifications are followed.

Further links

Similar articles from the product range

Note: Accessories are listed on the respective article detail page in the Partner Portal.

The cylinder bores are honed. The resulting characteristics are a particularly high surface quality and a smooth running. In this way the wear on the piston seal components is minimized. In order to guarantee a high quality, shifting cylinders of the brand DT® Spare Parts are subjected to different tests.

The most important of these are the tests for leaks and functionality at a humidity of up to 90 % and temperatures from -42 °C to +85 °C, as well as tests of material properties and surface quality of the honed cylinder bores.

Construction of shifting cylinders

1. Housing
2. Hydraulic connection
3. Plug
4. Air vent bore
5. Bellows
6. Connector
7. Push rod
8. Guide ring
9. Seal ring
10. Supporting ring
11. O-ring
12. Scraper ring
13. Piston
14. Piston guide
15. Air vent screw

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DT Spare Parts

The brand DT Spare Parts from Germany provides a complete range of vehicle parts and accessories with a 24 month guarantee – no matter whether for trucks, trailers, buses, transporters or further applications, e.g. cars, agricultural vehicles, construction vehicles, marine or industrial applications. The guaranteed brand quality is achieved through the consistent product optimisation and relentless quality assurance within the framework of the Diesel Technic Quality System (DTQS).

More info: www.dtqs.de