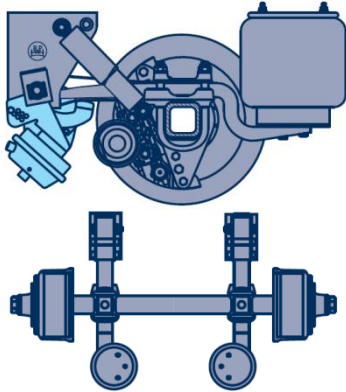


BPW Axle Lift Pressure Regulator

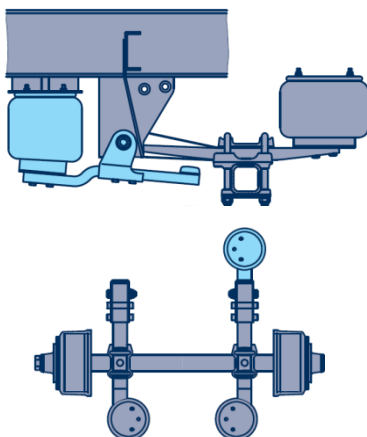
Axle lifts reduce tyre wear when unladen or carrying a light load, and improve fuel consumption due to the reduction of rolling resistance. BPW Axles offers 3 types of axle lifts; side-, double sided-, and centre axle lifts.

Lifting axles are controlled either electro-pneumatically (electric switch), manual control (hand operated valve) or automatically (compact valve).

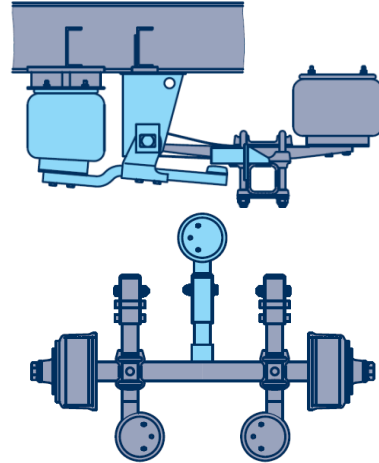
The **double sided axle lift** uses two axle lift boosters, one on each hanger, to raise the axle by pushing directly on the trailing arm. These lifts however cannot be fitted to axles with underslung suspension as the ground clearance under the axle lift booster becomes too small. The possibility of damage to the axle lift booster is high!



Side axle lifts are also fitted to the hanger but only on one side. They require the fitment of an extra axle lift airbag which lifts the axle via an arm rotating about the existing hanger. Similar to the double sided axle lift, the side axle lifts cannot be used with underslung suspension due to ground clearance limitations. This axle lift is also limited to the first axle of the axle group, as the extra space required by the axle lift airbag would interfere with the mounting of the other axle's suspension airbag.



The **centre axle lift** requires its own hanger in addition to an extra airbag. A plate is added to the axle beam on which the axle lift lever pushes to raise the axle. This axle lift can be used on any axle in the group, but requires additional crossmembers for the hanger and axle lift airbag.



PRESSURE REGULATOR REQUIRED!

The side and centre axle lifts use a BPW airbag. These are the same airbags used in the suspension and are designed to carry at least 9 tons between two of them, i.e. 4500 kg each. The weight of the axle that the axle lift is required to raise is typically less than 1000 kg, thus the **airbag must be fitted with a pressure limiting valve**. This is to ensure that the axle lift airbag never applies its full force to lift the axle. This can cause components in the lifting mechanism to get damaged.

A guideline of the maximum pressures allowed in the axle lift airbag is given below:

Airbag Size	Max. Pressure
BPW 30 / 30K	5.0 bar
BPW 36 / 36K	3.5 bar

PLEASE NOTE:

Detailed drawings and installation instructions can be found in the **BPW Air Suspension Installation Instruction** booklet. Please contact your local BPW agent for an electronic copy.