

Operational Limits of VBG and Ringfeder Couplings

Introduction

BPW Axles is the proud sales representative of VBG and Ringfeder Couplings. A wide variety of couplings are available in the South African market, each with their own unique operating limits and recommended operating conditions. A “perfect” coupling does not exist, and it is important that the most appropriate coupling be selected for each operation.

VBG and Ringfeder coupling limitations

For a full list of the available couplings please see the following link. <http://www.bpw.co.za/2018-site/downloads/ringfeder-VBG%20application.pdf>

The four main couplings supplied by BPW Axles is listed below with their specific operational limits.

VBG 795 coupling:

- The vertical motion of the tow eye is limited to +- 20 degrees
- The lateral motion of the tow eye is limited to +- 90 degrees
- The chassis needs to be designed and reinforced in such a manner that the developed forces can be absorbed
- The 57 mm tow eye will typically experience lower wear rates

VBG 760 coupling:

- The vertical motion of the tow eye is limited to +- 30 degrees
- The lateral motion of the tow eye is limited to +- 90 degrees
- Exposure to high road temperatures combined with severe operating conditions can shorten the life of the coupling rubbers.
- The rubbers should be inspected regularly and be replaced immediately once cracking is observed to prevent damage to the coupling

VBG 590 coupling:

- The vertical motion of the tow eye is limited to +-20 degrees
- The lateral motion of the tow eye is limited to +- 90 degrees
- The chassis needs to be designed and reinforced in such a manner that the developed forces can be absorbed
- The 590 has fewer moveable parts (fixed funnel) and is very strong

Ringfeder RF50 international

- The vertical motion of the tow eye is limited to +- 20 degrees
- The lateral motion of the tow eye is limited to +-90 degrees
- The chassis needs to be designed and reinforced in such a manner that the developed forces can be absorbed

Trailer couplings are hardworking components that are subjected to severe stresses and maintenance is critical irrespective of which coupling is selected. The maintenance requirements of each coupling and the associated components will differ depending on the application and operating conditions.

Please do not hesitate to contact BPW Axles for technical assistance or see our website.