



Tyre Inflation Systems



RDS 1L with pneumatic control
Single line tyre inflation system for slurry tankers & trailers

Advantages of the single line technology

- Long life of PTG rotary unions
- Lines fed through the drilled axles (pre-drilled at factory)
- Optional combination with piston or screw compressors
- 1,45 Euro/ha savings per operation
- up to 6 % more yield
- up to 30 % less road resistance
- up to 20 % less tyre wear
- up to 10 % less fuel consumption



RDS single line technology

The RDS Single Line Technology tyre inflation system is a professional system for reliable and convenient tyre pressure adjustment on the move. The ducts to the wheels lead through the drilled axles. The system is suitable for all slurry tankers and other trailers with factory predrilled axles. The RDS 1L cannot be retrofitted without drilling the axles.

The air duct to the wheel leads through the axle. The compact dual line rotary union featuring long-life grease filling (no greasing needed), high-quality seals and bearings is screwed into the axle hub. The sealing system for axle funnel sealing was developed in cooperation with BPW and primarily consists of a clamping ring and a lip seal. The ball

valve fitted to the rim must be closed manually after parking the vehicle.

Trailers with large-volume tyres usually require separate air supply systems. PTG offers a variety of air supply systems that switch on and off automatically as and when required.

The system is connected to the pneumatic brake system using a safety valve, so 6.5 bar pressure for the brake system is always guaranteed.

We can provide detailed air requirement calculations to help you select the right air supply system.

The system is operated from the cabin, using the standard control panel (pneumatic control).

Pneumatic control: The driver sets the required air pressure for both road and field once on the control panel of the gauge outside the vehicle, which are then stored. Using the control panel in the cabin, the driver simply selects the required mode (road or field); the control unit adjusts the pressure in all tyres to the preset values and switches off automatically. The system can also be switched off manually at any time. Since the system is permanently connected to the tyres, the actual pressure gauge always indicates the current tyre pressure.



Pressure gauge panel



Control panel

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