



Tyre Inflation Systems

Approved and released
by John Deere!



RDS/radial 2L with ISOBUS control
Dual line tyre inflation system for tractors with full-floating axle

Advantages of the dual line technology

- Actual service life of more than 10,000 tractor operating hours
- Switchable tyre valves with anti-kickback attachment (line system at zero pressure when switched off)
- No loss of tyre pressure if the line comes off
- 1,45 Euro/ha savings per operation
- up to 20 % less tyre wear
- up to 10 % less fuel consumption
- up to 20 % more traction power
- up to 6 % more yield



JOHN DEERE



RDS/radial dual line technology

The RDS/radial is the perfect system for reliable and convenient tyre pressure adjustment on the move for all tractors with full-floating axles.

The system works on the principle of air supplied from a static part (stator) to a rotating part (rotor). Pressure-resistant seals on the stator combine with the rotor to form annular ducts. Compressed air is supplied through these annular ducts even while the tractor is in motion.

The stator is screwed concentrically to the centre axle onto the axle funnel, the rotor is mounted with a clearance fit on the axle shaft and secured with a clamp. A thick working line and a thin control line lead from the rotor to the rotating wheel valve.

The air is supplied from the vehicle compressor and the air tank of the air brake system.

A brake safety valve (pressure relief valve) ensures that 6.5 bar pressure for the brake system is always guaranteed – meaning that the brake essentially takes precedence over the tyre inflation system.

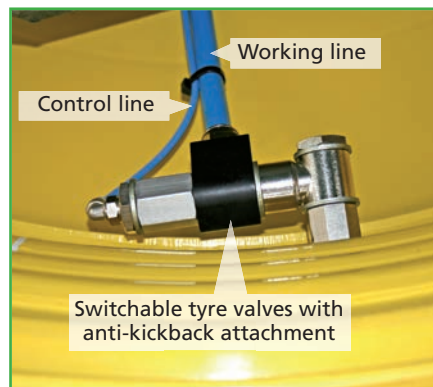
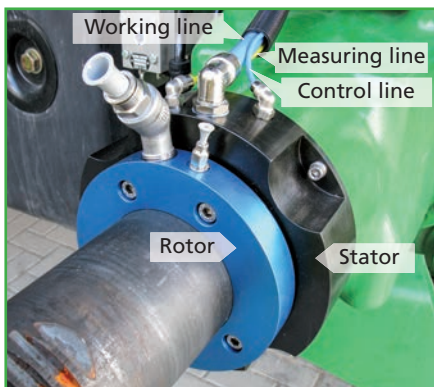
The patented dual line principle of the RDS/radial guarantees that the tyres are separated after a pressure change and the rotary unions (including seals) run at zero pressure for optimum preservation. This method also ensures that the tyres do not deflate in case of leakages or line tears in the system, providing a high level of driving safety.

The switchable valve with anti-kickback attachment is fitted to the rim and closes promptly if the line comes off, to prevent pressure loss in the tyres.

The RDS/radial rear axle system can be combined with the AIRBOX/drive dual line front axle system.

The RDS/radial system is easy and convenient to operate using the tractor's ISOBUS terminal, as the tyre inflation system is connected to the tractor via ISOBUS.

The adjustable field or road tyre pressures for all connected tyres can be accessed at the press of a single button. Once activated, the system adjusts the tyre pressure in all tyres before switching off automatically. The system can also be deactivated at any time at the press of a button.



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