

Meritor[®] Tire Inflation System (MTIS) by P.S.I.

Industry Situation

- Tires are the second-highest cost for the trucking industry, and the No. 1 maintenance expense for fleets.
- The American Trucking Associations reports that 90 percent of all rubber on U.S. highways is a result of underinflated tires.
- Trailer tires that are underinflated by just 10 percent lose 16 percent of their usable life. Tires underinflated by 30 percent lose as much as 55 percent. Fuel efficiency can decline up to 10 percent, as well.
- Trailer tires pose a special concern, since trailer maintenance is typically infrequent (most are maintained just once or twice per year). Also, trailers are frequently left unattended in warehouses for weeks at a time, leading to unchecked tire pressure loss.

MTIS Features

- MTIS is an active inflation system that monitors and maintains tire air pressure at a constant, proper level at all times.
- MTIS is the only fully automatic inflation system on the market. It requires no driver interaction, and works while the trailer is moving.
- The rotary union is the system's only moving part, making MTIS virtually maintenance free.

MTIS Benefits

- Reduced tire blowouts since tires remain at the proper inflation level at all times, even if the tire is punctured.
- Less trailer downtime, reduced trailer damage and increased safety.
- Fast return on investment due to increased tire life, improved fuel economy, and reduced tire maintenance costs.

(more)

How MTIS Works

- 1) The MTIS routes air from the trailer's existing supply to a control box, then into each axle.
- 2) The axles, acting as conduits, carry air through a rotary union assembly at the spindle end, which then distributes the air to each tire as needed.
- 3) A pressure protection valve ensures the system never compromises the integrity of the brake system.
- 4) An indicator light informs the driver that the system is inflating the tires. In the event of excessive air pressure loss, the system provides early notification of the need for maintenance or service.
- 5) If a tire failure occurs, check valves in the tire delivery lines prevent loss of pressure from the remaining tires.

Applications

- MTIS can be easily installed on any type of trailer, ranging from dry vans and liquid tanks to flat beds and deep-drop trailers.
- The system can also be installed on military vehicles.
- Because MTIS is self-contained on the trailer, it can be used with any type of tractor.
- ArvinMeritor offers complete installation and training support to ensure proper installation. Call 800-535-5560.

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