



Wheel slide protection system MGS3



APPLICATIONS

LRV | Metro | Regional & Commuter train | High-speed train |
Locomotive | Passenger car

KNORR-BREMSE



DESCRIPTION

The Wheel Slide Protection System MGS3 optimizes the adhesion between wheel and rail by electronically controlling the braking force. This prevents wheel lock, even in extreme weather conditions with very low adhesion in accordance with GOST standard. Decades of experience and ongoing technical improvement enable Knorr-Bremse to offer state-of-the-art wheel slide protection. Newly developed high performance dump valve ASV1-1S with improved features like shorter ventilation times and usability in low ambient temperatures up to -55°C is one example.

OPTIMIZED USE OF MATERIALS

- more than 50% weight reduction with new WSP valve ASV1-1S compared to GV21
- flow- and installation space-optimized WSP valve ASV1-1S

ENHANCED MAINTAINABILITY

- standardized components (e.g. WSP valve without nozzles) ensure low warehousing costs and rapid spare parts delivery
- modular design – servicing is limited to maintenance and replacement of individual modules

IMPROVED TRAFFIC MANAGEMENT / SAFETY

- “multi adhesion mode” WSP control for shorter stopping distances at extremely low adhesion
- improved system diagnostics through integrated pressure sensors

LESS LIFECYCLE COSTS

- “multi adhesion mode” WSP control for reduced wheel wear
- eNozzle functionality: reduced effort in commissioning due to absence of train-specific nozzles

INCREASED ENERGY EFFICIENCY

- energy-saving standby mode extends vehicle battery life
- 40% less energy consumption of new WSP valve ASV1-1S compared to GV21

Disclaimer: We have prepared the product description with due care but cannot exclude any errors. The product description does not contain any warranty or guarantee, in particular neither regarding correctness, accuracy and completeness of contained information nor regarding quality, negotiability, adequacy for certain purposes and compliance with laws and patents of described products.