

high
performance
in motion

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FLEXONICS

Industrial Engineering || **Land Vehicles and Engines** || Power Generation || HVAC

Expansion Joints and Bellows for Commercial Vehicles and Off-Highway Applications

The single or multi-ply metal bellows are technically absolutely gastight.
They decouple movements and vibrations and compensate assembly tolerances
as well as thermal expansions.



Expansion Joints and Bellows for Commercial Vehicles and Off-Highway Applications

Applications

- Hot and/or cold EGR
- Manifold decoupling
- Turbo charger
- Exhaust decoupling

Benefits

Product and Design

- Customized design as per technical requirements
- Standard material stainless steel 1.4541 (similar to AISI 321) up to high grade heat resistant material as stainless steel 2.4856 (similar to INCONEL 625)

Optional Components

- Integration of sleeve for an optimized gas flow
- Outer mesh for reduction of resonance frequency and as protection against environmental impact
- Customized heat protection to keep exhaust temperature and to protect the surrounding components

In-house Capabilities

- Large existing tooling equipment for different diameters from NB 16 up to NB 300
- Different simulation methods like fatigue analysis and damage calculation
- Road load data acquisition (RLDA)
- Various validation rigs for testing based on customer data



Senior Flexionics GmbH

Frankfurter Str. 199 | 34121 Kassel | Germany
Tel.: +49 561 2002-0 | www.seniorflexionics.de