

## Bellows for ventilation of traction motors on electric locomotives and railcars

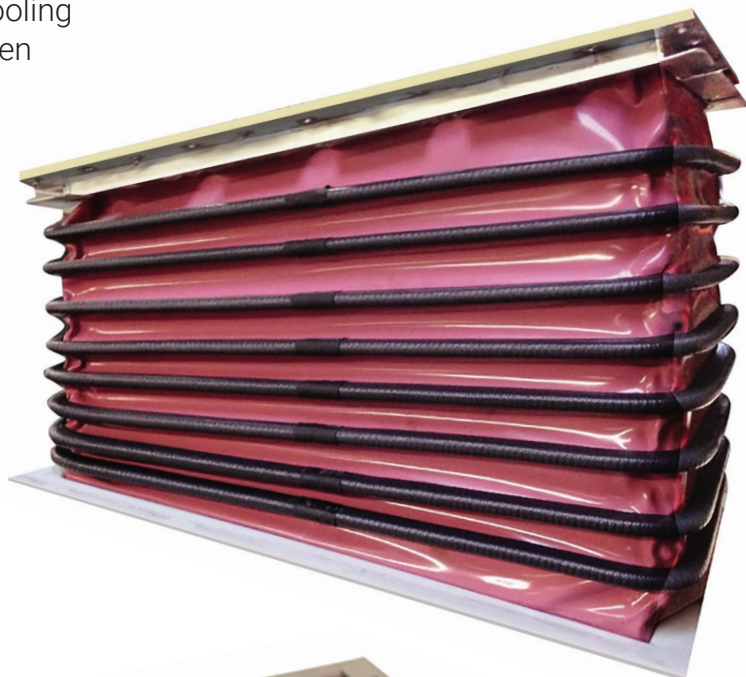
The bellows serve as an integral part of the cooling air flow as a flexible connecting element between traction motor blower and drive motor.

They are fixed from the bottom and the underfloor area of the locomotive to the flange of the traction motor fan collar.

A seal is provided between the upper flange and the traction motor fan collar in order to prevent loss of air and to prevent the ingress of moisture, like water.

The lower part of the bellows will normally be fixed to the bottom flange of the traction motor or fastened with a bayonet fitting.

Other mounting options are available.



### Design

- Air and water proof vulcanised endless tubing.
- Dimensional stability assured by stainless steel wire rings inside the convolution peaks.
- Bellows convolutions are secured by protection profiles.
- Mounting using custom made metal or silicone flanges.

### Material

- Silicone coated Meta-aramid (pink).

### Our bellows meet the following fire protection standards:

- EN-TS 45545-2
- DIN 5510-2



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