



02.12.2021 Reinvented: Dana simplifies logistics and assembly of large battery-housing gaskets

The battery housing gasket for high-voltage batteries used in electric vehicles are challenging to transport because of their enormous size, ranging up to 1,400 x 2,500 mm. Dana Incorporated, a leading supplier of components and systems for electric vehicles, has designed a one-piece, foldable solution capable of meeting the safety and durability requirements of light and commercial vehicles.

Folding, transporting, placing, unfolding

Dana's innovative battery-housing gasket is folded for transport to match the size of European pallets to a maximum size of 1,100 mm x 700 mm, making it especially useful for logistics and assembly. The gasket simply needs to be placed on the battery housing – and is unfolded using a installation fixture. There is no risk of assembling the gasket incorrectly. The Victor Reinz® folding gasket from Dana is already being used to seal the battery housings of vehicles in Europe and North America that are at the verge of introduction to the market.

Publisher

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Uninterruptible and self-extinguishing

The battery-housing gasket is a flat gasket made from a supporting sheet with a dual-sided elastomer seal. The seal and the folding elements form a circumferential and uninterrupted gasket profile around the entire rim of the battery housing.

The polymer is extruded with the edge molding process and features self-extinguishing properties. The folding gasket complies with the important regulation, UL94, where the polymer must self-extinguish within seconds. To further improve corrosion protection, each bolting location is also able to be sealed.

Folding instead of piecing together

When compared to other technical solutions such as pieced together and fluid seals, the folding gasket from Dana has a clear advantage.

The gasket is supplied as a single piece, eliminating the time-consuming and fault-prone piecing together of the individual gasket parts. The flexible elastomer folding elements are much more stable, withstand tensile, bending, and shearing forces, compensating for tolerances in the millimeter range and ensuring they remain securely in position. The gasket's continuous sealing contour, without

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any cut, protects against potential leaking points due to bulging and elongation. If repairs are needed, the folding gasket can be removed and replaced without damaging the battery housing.

If the battery housing gasket is already pre-assembled by the supplier of the battery housing cover, Dana equips the gasket with additional insertion studs for the cover, as desired by the customer.

Key advantages of the battery housing gasket from Dana:

Can be used for almost any battery housing

Standardized logistics on European pallets using 3-D folding

Faultless assembly with the fixture without piecing together

Uninterruptible gasket profile

Tolerance compensation through flexible elastomer folding elements

Minimized risk of leakage

Already being used by customers for vehicles awaiting their immediate launch

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