

Safe H₂ fuelling for electric fuel cell vehicles

Sustainable energy sources and the protection of the environment are becoming more and more important with regard to the increasing levels of CO₂ emissions. Engines that are powered with fossil fuels are not future oriented, in view of the continuously high amounts of pollutants and the growing numbers of vehicles being registered worldwide.

The future belongs to electric cars. However, these still struggle with the issue of their very limited range. The alternative drive technology is also unsuitable for trucks and busses. This is why an increasing number of manufacturers are focusing on hydrogen powered vehicles with fuel cell drives.

Electric fuel cell vehicles are powered by an electric engine. The required electricity is produced by the car itself, using hydrogen. The hydrogen reacts with oxygen in the fuel cell to produce electricity for powering the electric engine. In the end, only water drips from the exhaust pipe, rather than environmentally harmful fumes.

WEH believes in fuels for the future too, with a full product line of fuelling components for fuel cell vehicles – ranging from fuelling nozzles, breakaways and filters for H₂ filling stations through to receptacles and check valves for hydrogen fuel cell vehicles.

H₂ fuelling components by WEH are guaranteed to be **reliable and efficient** and feature the **highest safety standards** and an **extraordinary degree of functionality**.

Operation is almost identical with using a petrol nozzle. Simply remove the fuelling nozzle from the dispenser, attach it to the vehicle's receptacle, pull back the actuation lever and hydrogen fuelling of the vehicle begins.

Purely battery powered electrical vehicles continue to have long downtimes during the charging process that can last up to 10 hours. If charging overnight is ever neglected, the vehicle will not move. A fuel cell vehicle on the other hand is fully **refuelled** after only **three or four minutes**.

This is why fuel cell vehicles are expected to be unrivalled in the long run. Their **fast fuelling** is not the only major advantage. They also have a much **bigger range** of up to 500 kilometres. Furthermore, the alternative hydrogen drive is also suitable **for busses and trucks** and WEH is already providing a full range of fuelling components for this area, too.

Information:

2329 characters (incl. spaces)

Attachments:

1 refuelling image

General information on the company:

WEH was early to recognise the future of alternative fuels, and has since become the global market leader for alternative fuelling components.

As early as 1986, WEH began extending its product range to include alternative refuelling components for natural gas and hydrogen and founded its WEH GmbH Gas Technology affiliate.

WEH is certified in accordance with ISO 9001 and the European Pressure Equipment Directive (PED). The company employs more than 160 staff and conducts business in more than 40 countries worldwide.

Image resources



Fuelling process for an electric fuel cell vehicle using the WEH® fuelling nozzle TK17 H₂ 70 MPa

If you have any questions or would like to receive additional image resources, please contact:

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