

Alternative fuel filling systems





## Stäubli's energy connection experience...



For more than 60 years, Stäubli has been offering manufacturers all over the world a wide range of connection solutions for all types of energy and fluid. From quick-release couplings and multi-coupling plates to Quick Mould Change systems and tool changers, every one of our solutions is designed to ensure your equipment profitability and improve their productivity.

**With its expertise in high-tech quick-release couplings, for over 25 years Stäubli has been developing dedicated alternative fuel filling systems.**

To overcome the issue of the gradual exhaustion of oil reserves and help protect the environment, alternative solutions to conventional fuels have been under development for several years.

In order to meet the sector's increasingly stringent requirements in terms of regulations, air quality and public health, Stäubli has designed filling systems that rise to these new challenges.





## ... working for sustainable mobility

### A historic presence in the automotive and transport industry

Right from the start, Stäubli has been designing, manufacturing and marketing systems aimed at the key producers in the automotive and transport industry: equipments suppliers and manufacturers.

On the strength of this experience and our continuous contact with the industry, we have formed a solid partnership with all of our international customers, bringing us opportunities to work with service stations, installation manufacturers and major oil players in the oil and gas industry.

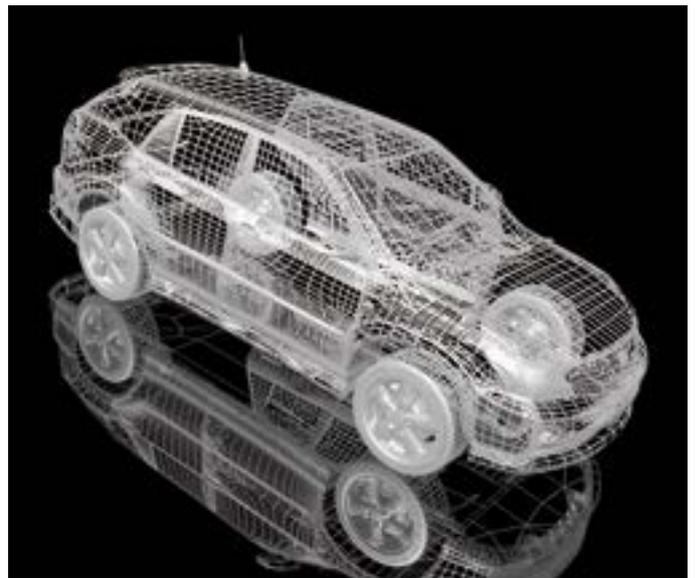
### A sustainable commitment focused on your priorities

Stäubli is an active expert member of the international standardisation committees on natural gas, LPG and hydrogen filling.

This experience enables us to provide support for all players in the sector and adapt the design of our products through control of the research and development stages, to provide solutions for every market development.

### Corporate foresight, innovation and quality

Stäubli listens to the needs of the alternative fuel market, actively monitoring technological developments and implementing an innovation strategy in order to anticipate the challenges of the future. Your projects are supported by significant research, development, laboratory equipment and resources.



### Consistent quality level as testified by:

- Various certifications: UL 125, ISO/TS 16949, ISO 14469...
- Compliance with directives: ATEX/PED, UNECE R110...
- Materials traceability
- Test facilities tailored to your requirements, including cycling, pressure and sealing unit testing...



## Targeted responses to your requirements

**Stäubli filling systems incorporate the features and functions necessary to meet your technical, regulatory safety and reliability requirements.**

### **Easy to use**

Light, ergonomic, easy-to-handle, quiet nozzles.

### **Completely safe operation**

Mechanical safety lock: no gas can flow if the nozzle is not connected to the vehicle.

### **Safe installations**

In addition to the filling nozzle, the safety break-away system acts as a mechanical fuse, preventing accidents if the vehicle moves away before the nozzle is disconnected.

- Gas flow is automatically shut off.
- Nozzle is disconnected without damage to the vehicle.

### **Reliable Stäubli solutions**

Thanks to the technical features and materials selected, the Stäubli filling lines are designed to withstand impacts, corrosion and dust.



*Installation protected by safety break-away system*

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#### Compliance with relevant standards

- NGV filling: nozzle compatible with the NGV1 and ISO 14469-compliant receptacle on the vehicle.
- LPG filling: nozzle compatible with the EN 13760-compliant receptacle on the vehicle.
- Hydrogen filling: nozzle compatible with the SAE J2600 and ISO 17268-compliant receptacle on the vehicle.
- Stäubli NGV, LPG and hydrogen solutions comply with directives 2014/68/EU and 2014/34/EU (ATEX).



Reduce your operating costs and adopt a sustainable approach.

With Stäubli, you can count on:

- high-performance equipment
- long-term reliability of your investments
- environmental protection.



Standard compliant receptacle ensures vehicle safety during filling





## A Stäubli solution for every type of fuel

Designed for fuel stations and refuelling equipment manufacturers, Stäubli's alternative fuel systems offer a wide range of solutions for:

- all types of vehicle (heavy or light)
- slow or fast refuelling (NGV)
- all filling modes (professional vehicle fleets, private or public self-service distribution).

NGV



### Filling systems for compressed Natural Gas Vehicles (NGV)

- At the service station: self-service refuelling nozzle and handle, vehicle fleet nozzle, safety break-away system, equipped hoses.
- On the vehicle: receptacle and non-return valve.



Wide range of filling nozzles for all types of fuel



LPG



#### Filling systems for Liquefied Petroleum Gas vehicles (LPG)

- At the service station: self-service refuelling nozzle, safety break-away system, equipped hoses.

H2



#### Filling systems for electric vehicles equipped with a hydrogen fuel cell

- At the service station: self-service and vehicle fleet refuelling nozzle, safety break-away system, equipped hoses.



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For contact details: [www.staubli.com/connectors/contacts](http://www.staubli.com/connectors/contacts)



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