Theisen GmbH & Co. KG is a medium-sized company with 50 employees. Since 1984 we have been manufacturing components, systems and special piping for the application with technical gases - worldwide. In-depth know-how, many years of experience and a large variety of products make us your reliable partner.
Theisen GmbH & Co. KG manufactures:

- Piping for gaseous and liquid hydrogen
  - Welded designs – up to 500 bar
  - Bolted designs from 500 to 1,400 bar approx. (makes e.g. BuTech, Maximator, Hofer; tools and devices)
  - Double-walled piping (make Brugg)
  - Vacuum insulated piping
- Control panels and cabinets for pressure or mass flow regulation
- Heat exchangers for heating or cooling purposes
- Water bath vaporizers for the vaporization of liquid hydrogen
- Pressure vessels
- Pressure boosters for hydrogen
- Connectors, fittings and adapters in accordance with international standards
- Filling systems for technical gases and hydrogen for pressures up to 400 bar
- Fuelling systems for automobile applications with
  - filling pressures up to 350 bar
  - filling pressures up to 700 bar
- Hydrogen cooling systems according to SAE
- Fuelling systems for submarines; filling pressures up to 200 bar

of stainless steel, copper, Monel or other nickel alloys.

We perform periodic inspections on composite vessels together with the Notified Body. We provide our installation and maintenance services all over Europe, irrespective of whether it is the question of new plants, expansions or repairs.

Our clientele includes:
- all reputed gas suppliers, e.g. Air Products, Air Liquide, Linde, PraxAir, Westfalen AG
- Chemical industry
- Steel and metal industry
- Food and luxury food industry
- Universities and research institutes

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Products / Applications
When fuelling vehicles according to the protocol SAE J2601/700 bar, the hydrogen must be cooled to a temperature of -33°C. This is accomplished by a cooling system and the heat exchanger developed by us. Maximum mass flow: up to 2 kg/min.
Fitting and valve rack for bus fuelling systems; max. operation pressure: 500 bar

Pipes and fittings are connected by union systems with specifically developed pneumatically actuated valves

Pressure vessels

Pressure vessel for sampling or cleaning of gases (absorption vessel). Manufacture in compliance with PED 97/23/EC, including acceptance survey by a notified body.

Maintenance and Repair Services

We perform inspections, repair and maintenance services on site. For mobile systems these services can also be provided in our workshop.
Certificates

Welding specialist firm

DIN EN ISO 3834-2

Pressure Equipment Directive

Manufacture of pressure vessels and piping

AD 2000-Merkblatt HP0

Monitoring of the final assessment

Modul A1

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