



Industrie Service

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## Theisen GmbH & Co. KG

[www.theisen-gmbh.de](http://www.theisen-gmbh.de)



### Theisen GmbH & Co. KG

Deipenbrook 17  
48607 Ochtrup

### Products / Applications Certificates

**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

**Homepage:** [www.theisen-gmbh.de](http://www.theisen-gmbh.de)



**Contact:** Dipl.-Ing. Noel Theisen / Dipl.-Ing. Michael Tottmann  
**Telephone:** +49 (0)2553 9701-0  
**Fax:** +49 (0)2553 9701-24  
**Email:** [info@theisen-gmbh.de](mailto:info@theisen-gmbh.de)

## Products / Applications

**Heat exchanger to cool hydrogen for fuelling vehicles according to Protocol SAE J2601**



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 2kg/min

**Filling rack for gaseous hydrogen, filling pressure: 700 bar**



Piping construction/ production of control panels and cylinder filling systems; filling pressure: 700 bar.

**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

Free Service Hotline: +49 800 - 888 4444 | Email: [info@tuev-sued.de](mailto:info@tuev-sued.de)