

WEH® Fluid Technology

Components and systems
for high-pressure applications



Your reliable partner for innovative high-pressure & connection technology

With outstanding technical expertise through German engineering, innovative system solutions and decades of experience, WEH is a global leader in high-pressure and connection technology. Our **customized solutions** and standard products ensure safe, fast, and efficient connections in the fields of **connection technology, hydrogen and CNG technology, as well as high-pressure applications up to 10,000 bar / 150,000 psi.**

We develop, design, and manufacture fluid technology components and systems that have proven themselves internationally in industry, mobility, and energy technology. **Customer focus, quality, and flexibility are our top priorities.**

The key to our success? **Innovation and customer-focused solutions.** We listen carefully, understand our customers' individual requirements, and turn them into intelligent connection solutions – **from simple standard adapters to highly complex system solutions.**

- ✓ Expertise through experience – for over 50 years
- ✓ Efficient solutions for high-pressure and fluid technology
- ✓ Customized solutions for your applications
- ✓ Reliable service – from development to maintenance

An excellent pre- and after-sales service, combined with the highest quality standards, makes WEH a reliable partner worldwide. Our goal is not only to deliver products, but to create solutions – **precise, safe and future-proof.** Even after the purchase, we continue to support our customers with comprehensive service and expertise.

Who we are

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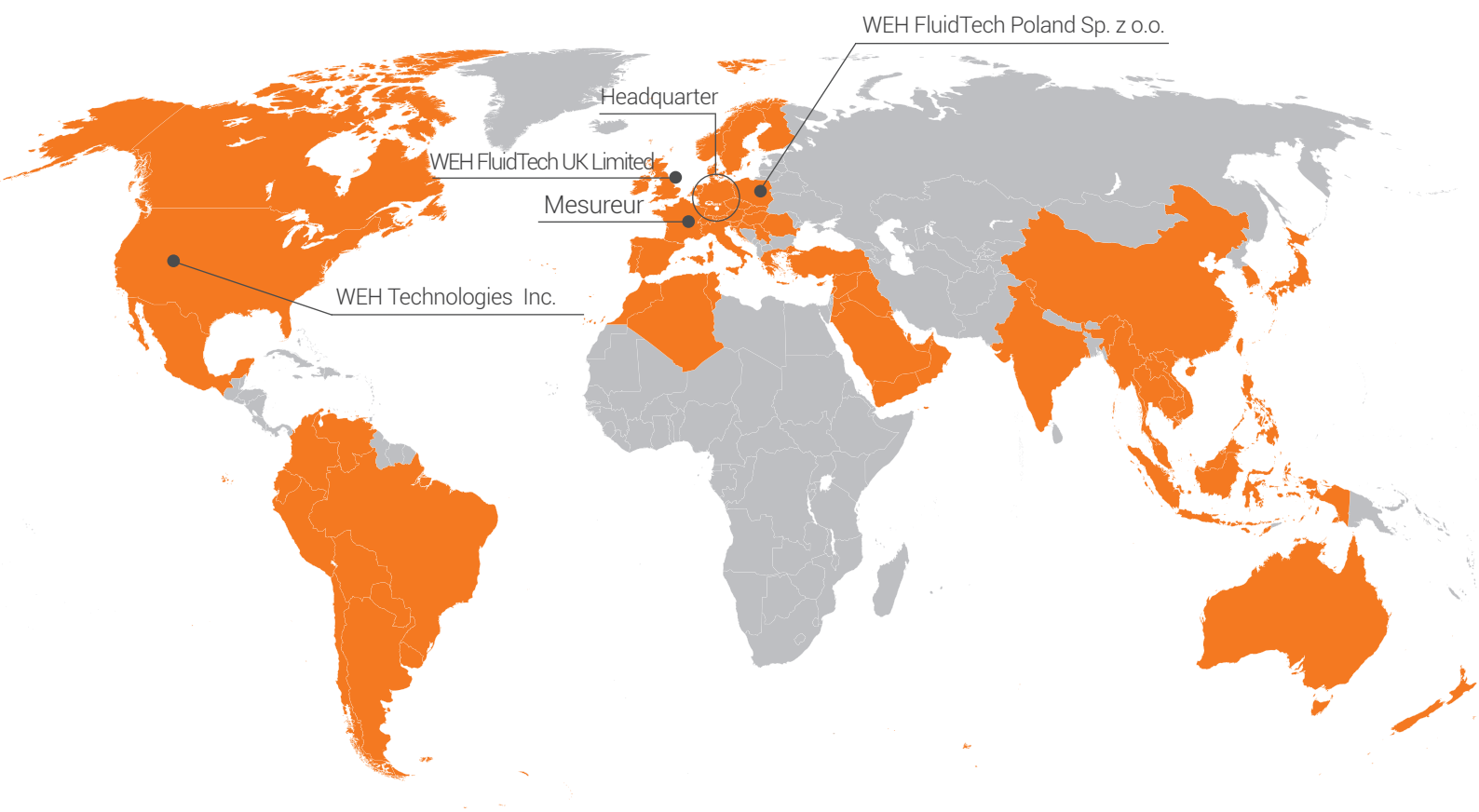
More than 35 partners in over 60 countries worldwide

200

Employees worldwide

1973

Founded



We have been setting standards in fluid technology for more than five decades

With bold ideas, pioneering products, and true engineering expertise, we develop and manufacture in strict accordance with recognized standards while actively contributing to the development of international standards ourselves.

Highlights of our innovative strength

Inventor of the jaw locking mechanism

Back in the 1970s, we broke new ground with the development of the WEH® Jaw locking mechanism: as the world's first manufacturer, we enabled connections within seconds without screwing – a key component of many of our products to this day. WEH® Quick connectors for high-pressure applications are used in a wide range of industries worldwide.



Pioneer in hydrogen refueling components

WEH recognized early on that hydrogen would become a key energy source of the future and has been developing WEH H₂ Refueling components for more than 30 years. Designed in accordance with **international standards such as ISO 19880-1 and ISO 17268**, these components continue to set benchmarks for hydrogen refueling today.



Co-developer of the NGV1 standard

Since 1986, WEH has been driving forward natural gas refueling technology and played an active role in defining the globally recognized NGV1 standard (Natural Gas Vehicle Interface). This standard forms the technical foundation for today's worldwide refueling systems and is used in thousands of applications – from CNG passenger cars to municipal utility vehicles.

Safety & Quality – Our Foundation

For us, safety is not an added promise, but a fundamental principle. That is why we develop and manufacture strictly in accordance with recognized standards. Our customers can rely on:

- ✓ 100% outgoing goods inspection – every product is individually tested
- ✓ Processing of the highest-quality materials
- ✓ Manufacturing in accordance with ISO 9001 and the Pressure Equipment Directive 2014/68/EU
- ✓ Proven technology on the market – Made in Germany

The result of our philosophy?

Product solutions that stand out through the highest quality and maximum safety while delivering tangible benefits to our customers.

- ▶ Reduced downtime
- ▶ Cost reduction and increased productivity
- ▶ Reliability and outstanding ease of use



CERTIFIED QUALITY MANAGEMENT

Our commitment to quality is certified according to the high requirements of recognized standards:

- ▶ ISO 9001:2015
- ▶ ISO 14001:2015
- ▶ Pressure Equipment Directive 2014/68/EU Annex III, Module H





Quick Connectors

When every second counts, WEH® Quick connectors are the right tool.

Whether for testing, filling, or evacuating – our connectors establish a secure, pressure-tight connection within seconds, completely without screwing or tools.

Thanks to their robust design and the proven WEH® Jaw locking mechanism, the quick connectors are highly durable and available in numerous versions – for internal or external threads, smooth tubes, flared or beaded pipes, as well as common connection standards and thread types.



Save time

Tool-free connection within seconds – reducing testing times.



Automatable

Manual or fully automated – ideal for series production.



Reliable sealing

Permanently leak-tight – even under high pressures.



Ergonomic & safe

Reduces strain on wrists and helps prevent injuries.



Pressure, functional and leak testing



Filling and evacuating gas cylinders



Testing, filling and evacuating cooling systems



Filling breathing air cylinders



High Pressure Solutions

Reliable Systems & Components – Mastering Extreme Requirements Safely

At pressures exceeding 1,000 bar, the demands on materials, sealing technology and safety increase significantly. WEH offers a modular system for high-pressure applications that stands out through durability, performance and versatility.

Suitable for applications such as hydroforming, waterjet technology, isostatic presses and other high-pressure processes.



Durable & resilient

Stainless steel 1.4542 / 17-4 PH – approximately 50% stronger than standard materials.



High flow performance

Large nominal diameters – efficient flow with minimal pressure loss.



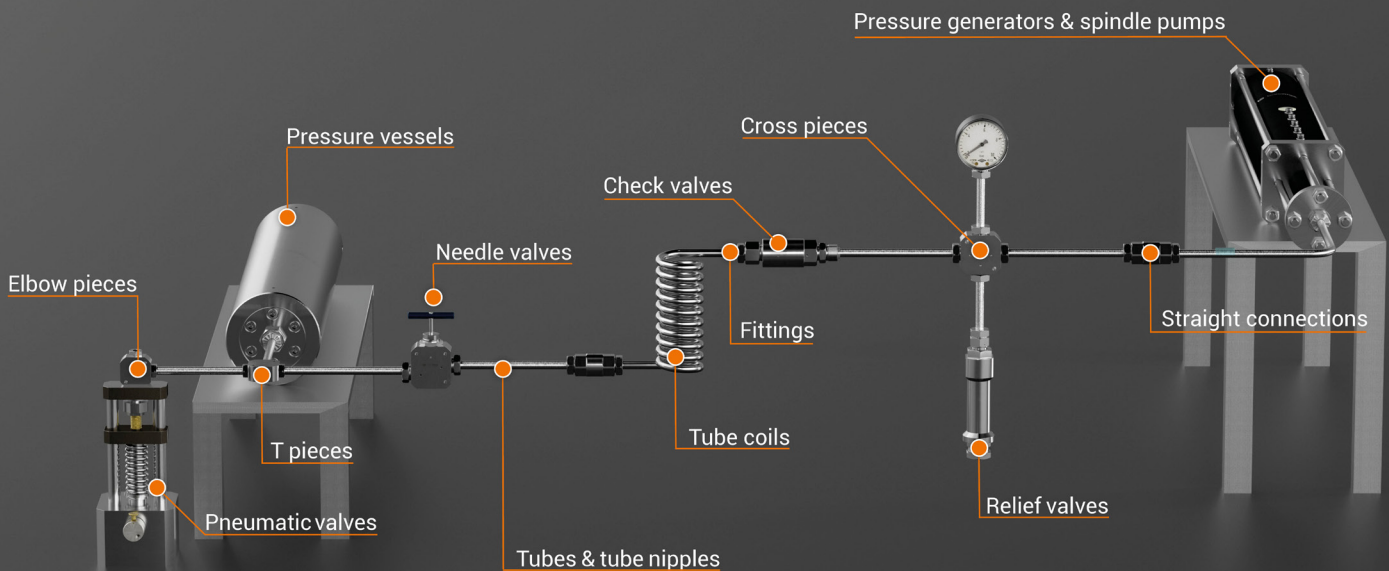
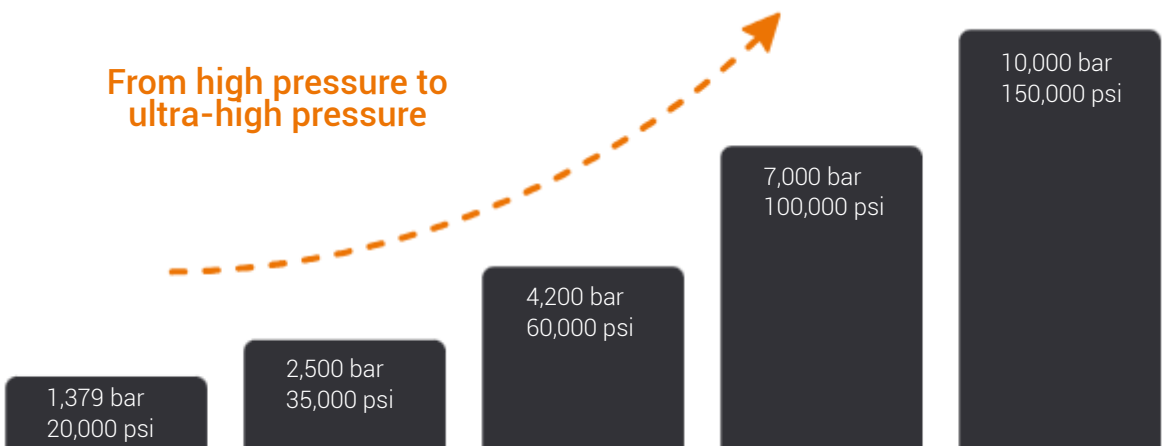
Secure sealing under high pressure

120° sealing cone – metal-to-metal sealing up to 4,200 bar.



Versatile applications

Medium Pressure up to 1,379 bar,
High Pressure up to 10,000 bar.





H₂ Refueling

Safe Supply, Refueling & Connection – Meeting the Highest Demands.

Safe solutions. Whether at the fueling station, inside the vehicle, or on the trailer – hydrogen refueling requires maximum safety, leak-tightness and reliability. Different pressure levels (35 / 70 MPa), extreme temperatures, and high flow rates demand robust and precise components. WEH® offers a complete system – from receptacles and check valves to fueling nozzles and quick connector solutions. Certified, field-proven and developed for the hydrogen world of tomorrow.



Maximum reliability

Robust materials, sophisticated design, and 100% final inspection.



Maximum availability

Robust, low-maintenance technology for minimal downtime.



Optimal protection

Reliable protection for operators and infrastructure.

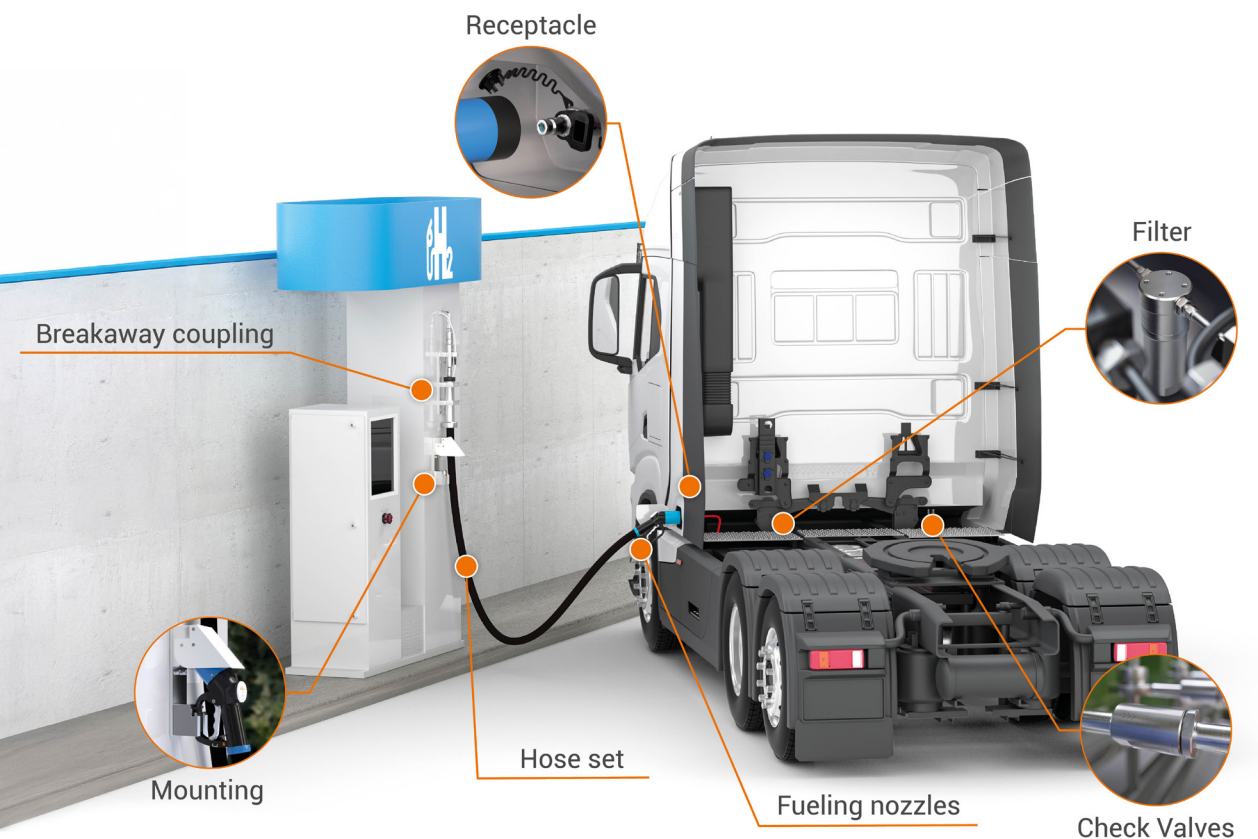


Versatile applications

Modular components for vehicles, trailers, and fueling stations.

Additional components:

- Quick connection solutions
- Refueling fittings
- Service receptacles
- Dispensing nozzles
- Accessories



H70

H35

H35

Medium-Flow



CNG Refueling

Reliable Components for Natural Gas Vehicles & Fueling Stations Worldwide

CNG has proven itself internationally – yet the requirements remain demanding: different pressure levels (200 bar / 250 bar), international standards and varying operating conditions present challenges for operators and OEMs alike.

For more than 40 years, WEH has been delivering field-proven solutions – from fueling nozzles, filters and breakaway couplings to receptacles and manifolds. Developed for maximum compatibility, fast filling times and the highest level of safety – in use worldwide.



Worldwide compatibility

Developed in accordance with NGV1, GOST and other standards – for global use.



Optimal protection

Reliable protection for operators, components and infrastructure.



High flow capacity

Short filling times for vehicle fleets and fueling stations.



Ergonomic & user-friendly

Intuitive handling – ideal for everyday use at fueling stations.

Additional components:

- Refueling fittings
- Service receptacles
- Dispensing nozzles
- Accessories





Filter Technology

Clean Media – Safe Processes.

Gaseous media often contain particles that can damage system components or compromise leak-tightness. WEH® filters reliably ensure clean systems – from the supply connection to the connection interface. Compact in design, durable in operation and maintenance-friendly in service. Available in various versions – for natural gas, hydrogen and technical gases.



Effective protection

Protects sensitive components and reduces downtime.



Wide range of connection options

Available for various thread types and installation positions.



Compact design

Minimal space requirements – ideal for confined installation environments.



High-quality filter elements

Fine-pore inserts made of stainless steel or plastic – also suitable for hydrogen systems.



Maintenance-friendly & durable

Robust construction, easy to clean, and simple to replace.



Application-specific selection

Filter housings made of stainless steel or brass for various media and pressure ranges.



Hydrogen

Natural gas

Industrial gases



Valve Technology

Reliable Backflow Prevention with Minimal Space Requirements.

Whether for gases or liquids – wherever media must flow in only one direction, WEH® Check valves and screw-in valves are the ideal solution. Compact, durable and absolutely reliable, even under high pressures, with aggressive media or in confined installation spaces. Suitable for mechanical and plant engineering, pneumatics, hydraulics and process industries.



Maximum leak-tightness & safety

Seal systems positioned outside the media flow protect against damage.



Easy installation & integration

Quick assembly with internal, external or screw-in threads.



High flow capacity – compact design

Flow-optimized with low opening pressure – efficient even in limited installation spaces.



Low-noise & efficient

Low opening pressure and soft sealing ensure quiet operation – even at high pressures.



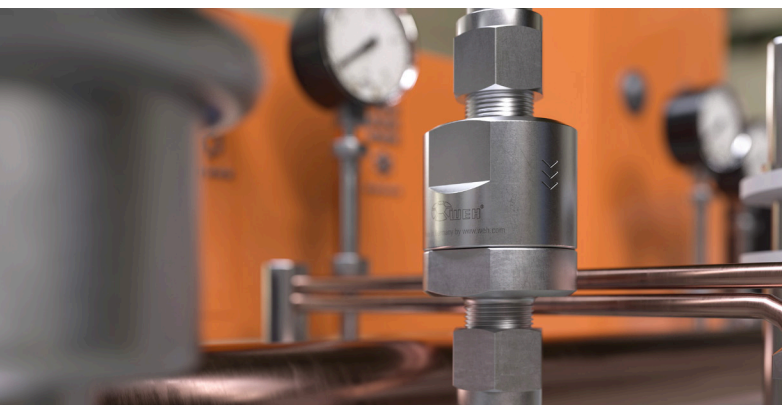
Robust materials

Available in stainless steel, zinc-plated steel or brass.



Wide range of variants

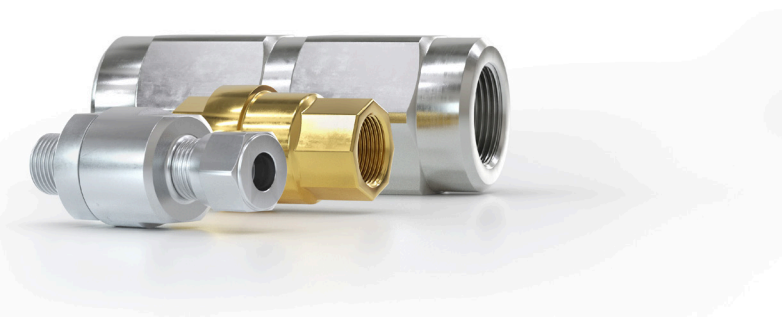
Ball or cone sealing with various opening pressures and connection sizes.



Check Valves



Screw-in Valve



Components for gas



Complex Gas Systems – Reliably Controlled.

Whether oxygen, nitrogen, or CO₂ – when handling, regulating or filling technical gases, maximum safety, media compatibility and durability are essential. WEH® fittings are proven worldwide in industrial, medical and laboratory applications – robustly designed, certified in manufacturing and engineered for long-lasting, low-maintenance operation.



High operational safety

Robust design and 100% final inspection for reliable processes.



Compact & space-saving

Sophisticated design for confined installation spaces.



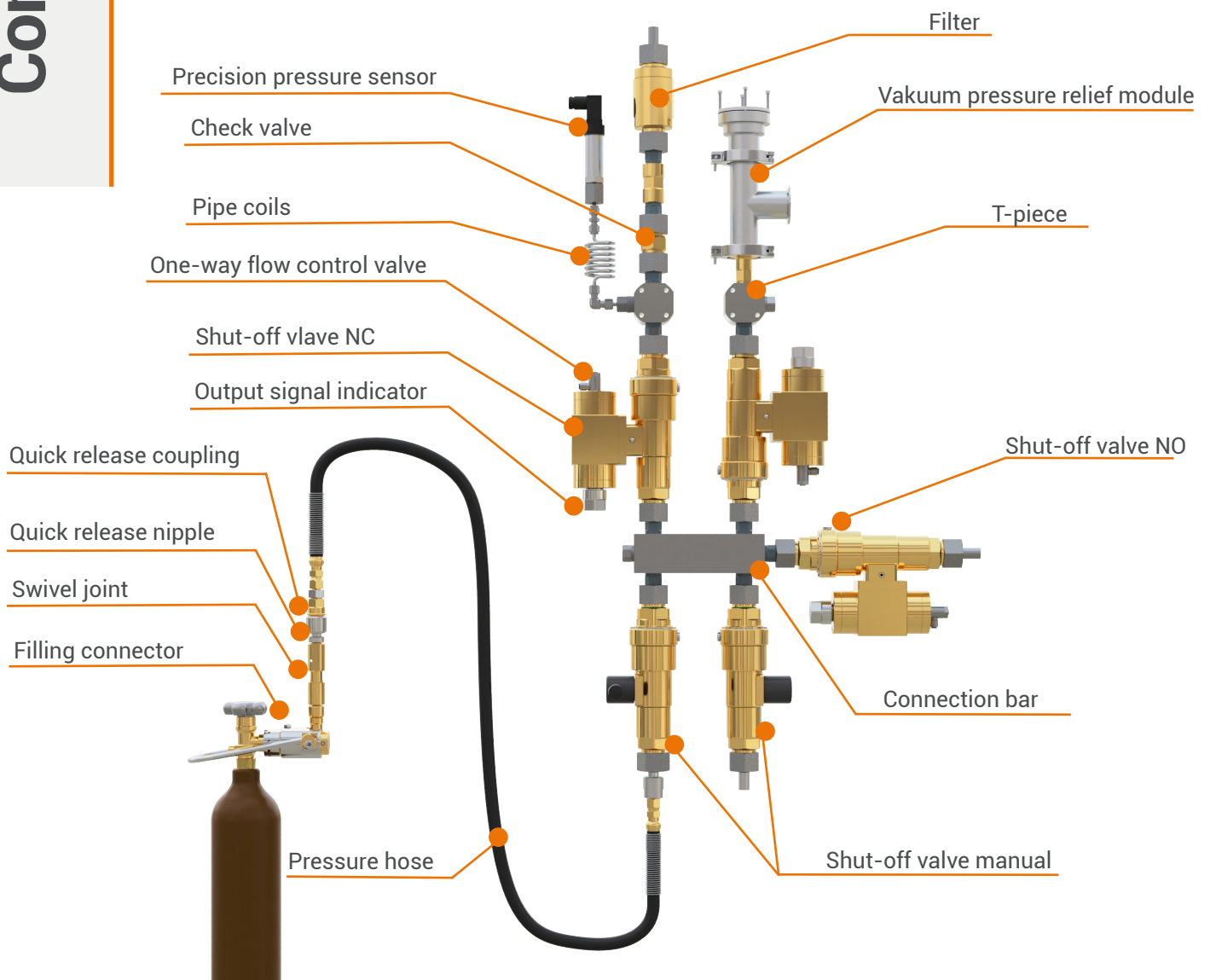
Media-clean & compatible

Burnout-tested materials for oxygen as well as inert, flammable and oxidizing gases.



Flexible integration

Various connection sizes and installation options.



Our Service – Everything from a Single Source

- Made in Germany -

Play It Safe: Manufacturer Service from WEH

By choosing a WEH® product, you have chosen quality and safety. Your satisfaction is our top priority – even after the purchase of our products. Our service team is your reliable and competent partner when it comes to maximizing the service life of our products.

That's What We Call Great Service!

The quality of our products is a major advantage for our customers. Because WEH® products are not simply replaced – they are sent in for service.

Your Benefits:

- ▶ Our experts inspect, repair and maintain your equipment reliably, quickly and safely.
- ▶ We comply with national and international requirements.
- ▶ We use exclusively original spare parts.
- ▶ We carry out outgoing goods inspections and provide a test report.
- ▶ We ensure maximum availability and performance of the products.
- ▶ With our service, you minimize safety risks.
- ▶ Our experts detect potential damage at an early stage.
- ▶ Our service specialists help prevent unnecessary repairs and consequential damage.
- ▶ Service and maintenance costs remain transparent.



What We Can Do for You:



ANALYSIS

As part of the maintenance process, we inspect which parts can continue to be used.



REPLACEMENT

We replace components to ensure compliance with quality and safety standards.



WARRANTY & GUARANTEE

Quality you can rely on – every product is thoroughly tested.



LABORATORY

For specialized analyses, we cooperate with partner laboratories.



CLEANING

First clean – using our modern cleaning system.

Contact

Do you have any questions or need further information? – We are happy to help.

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