

# LINNEMANN

Rohrverbindungen • Edelstahlarmaturen  
Pipe connections • Stainless steel fittings



VACUUM TECHNIQUE



FOOD TECHNIQUE



STERILE TECHNIQUE



CHEMICAL TECHNIQUE



BULK MATERIALS TECHNIQUE

**Reliable components for  
secure process technology**

# FL clamping rings have simplified plant construction

FL, Friedrich Linnemann – Since 1981, the initials stand for patented pipe connections, which have simplified plant construction. The names of the various clamping rings begin with these letters, which distinguish the successful pipe connection systems from LINNEMANN GmbH in Tübingen. For every flange connection, there is a clamping ring of matching design.

The demand has grown quickly, soon going beyond straightforward pipe connection systems to adjacent tasks. The program currently offers over 13,000 items that are suitable for the respective medium, field of application and the related norms and standards.

Whenever customers want „A one-stop service“, the LINNEMANN GmbH team gives advice about which pipe connection systems provide a safe and economical solution to which tasks. LINNEMANN GmbH is active worldwide.

Tasks for media of any type are covered from the following fields:

- Vacuum technology
- Food technology
- Sterile technology
- Chemical technology
- Bulk materials technology

The range of items serves plant construction from A to Z. The range also includes pipes and hoses as well as controlled valves.

In addition to the stock listed standard items, special parts are manufactured on request. Expert advice is also available to you so that your construction can perform the required tasks effectively.



## The aim: To get better all the time!

LINNEMANN GmbH is an independent family-owned company, which has been headquartered in Tübingen since 1981. The business activity covers the development, manufacturing and sales of high-quality pipe connection systems, fittings and custom-made products in stainless steel, aluminium and glass.

Since 2004, the company has been managed in the second generation by: Annette, Martin and Thomas Linnemann. LINNEMANN GmbH aims to meet the needs of customers and is constantly working to provide articles and services of the highest quality. The guiding principle of „Reliable components for secure process technology“ is reflected in the wording of the mission statement.

Extensive warehouse capacities ensure rapid provision of the desired item. A network of committed partners supports reliable delivery, thus ensuring compliance with delivery deadlines, even for special parts.

All articles are produced on precision machines. Careful controls ensure that you receive articles that are in perfect condition.



# Confirmed quality standards

Certified according to DIN EN ISO 9001:2015, LINNEMANN GmbH guarantees that all components – based on national and international standards – can be integrated safely into plants. This quality standard applies equally to in-house developments and custom-made products. Compliance with requirements is checked in regular audits, while re-certifications confirm these efforts.

The quality management system is working continuously to improve articles and services. In order to ensure that experience from project implementation, as well as suggestions, are incorporated promptly, the entire team is involved in the optimisation processes.

The following are indicative of our optimisation efforts:

- customer-oriented action
- process-oriented implementation
- efficiency improvements based on indicators
- relationships based on partnership
- future-oriented networking
- continuous improvements
- decision-making based on facts





## Certificates for the safe use of your plants

Contact with food or drinking water requires the certainty that no pollutants of concern are emitted. The requirements of EC regulation 1935/2004 are met.

FDA certificates of conformity are included accordingly, pursuant to Section 177.2600 for elastomers and pursuant to Section 177.550 for plastics, for all seals that are intended for use in the food industry or in sterile technology.

The seals also meet the requirements of EMEA/401/01 regarding the absence of TSE/BSE and USP Class VI. If necessary, certificates pursuant to TA-Luft (German Clean Air Act) can also be provided.

Welding certificates can be supplied if necessary.

Additional certificates can also be issued, including manufacturers certificates of compliance 2.1., factory certifications 2.2. e.g.: for surface roughness and ferrite content and pre-material inspection certificates 3.1.

**Components that are required to prove their suitability for use according to the Pressure Equipment Directive 97/23/EC or 99/36/EC and 87/404/EEC are provided with the necessary marking. LINNEMANN GmbH is authorised to restamp tools and products for pressure vessels pursuant to Pressure Equipment Directive (97/23/EC) and AD 2000 rules.**



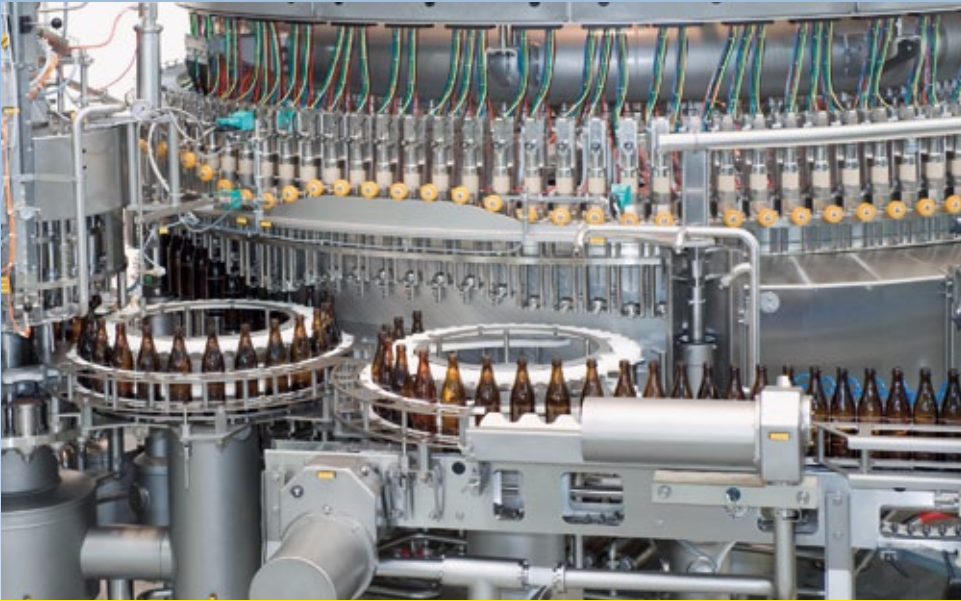


## VACUUM TECHNIQUE

In order for vacuum systems to provide reliably stable suction performances, the pipe connections must guarantee long-term tightness even at high vacuum. Depending on the medium, LINNEMANN offers the required stainless steel, aluminium or glass components in accordance with standards DIN 28403 ISO 2861 for the KF small flange connections and DIN 28404 ISO 1609 for ISO-K clamping flange connections. Required flexible connections can be supplemented from the hose program. LINNEMANN offers metal hoses as well as hoses with support spirals, which are assembled appropriately and can therefore be integrated safely.

Where disc or ball valves are required for control or for extraction, for example, various systems are available. The mechanically operating vacuum gauges can be used as robust, corrosion-resistant vacuum gauges.





## FOOD TECHNIQUE

Since the company was founded, LINNEMANN has placed special value on plant construction with parts that are easy to clean for the food industry. Because special requirements are placed on components that are used in the field of food production, e.g.: the seals used are tested for compliance with the FDA regulations. Corresponding declarations of conformity ensure safety for users. Originally developed for the dairy industry, pipe screwed connections in accordance with DIN 11851 have since become standard in many areas of the food industry as well as the beverages and brewing industry. Clamp connections according to DIN 32676 for the food sector are also offered.

The required pipes are manufactured according to DIN EN 10357 (formerly DIN 11850), and butt weld fittings according to DIN 11852. LINNEMANN stocks a comprehensive range of sizes in DIN, ASME and ISO dimensions, from DN1/4" up to DN300, in order to connect to pipe diameters that are often different within plants.







## STERILE TECHNIQUE

LINNEMANN pipe connections meet the strict requirements of DIN 11853 and DIN 11864. This allows their use under sterile conditions in pharmaceutical and biotechnology facilities.

Depending on the flange type, LINNEMANN offers aseptic pipe screw connections according to DIN 11853-1 and DIN 11864-1, aseptic flange connections according to DIN 11853-2 and DIN 11864-2 as well as aseptic clamp connections according to DIN 11853-3 and DIN 11864-3. Matching hoses are also available according to DIN 11866 and weld fittings according to DIN 11865.







## CHEMICAL TECHNIQUE

For the field of chemical technology, LINNEMANN offers standardised flanges according to DIN EN 1092-1 and ASME B16.5. Furthermore, LINNEMANN has also designed the FLW connection with quick release clamping rings especially for large pipe dimensions from DN300. Another development is the FLY pipe connection in which the seal is located in a rectangular groove where it is protected from the medium. The LINNEMANN GmbH chemical technology product is rounded off by weld fittings according to DIN EN 10253-3, threaded fitting pursuant to DIN EN 10241 and pipes according to ISO 1127.





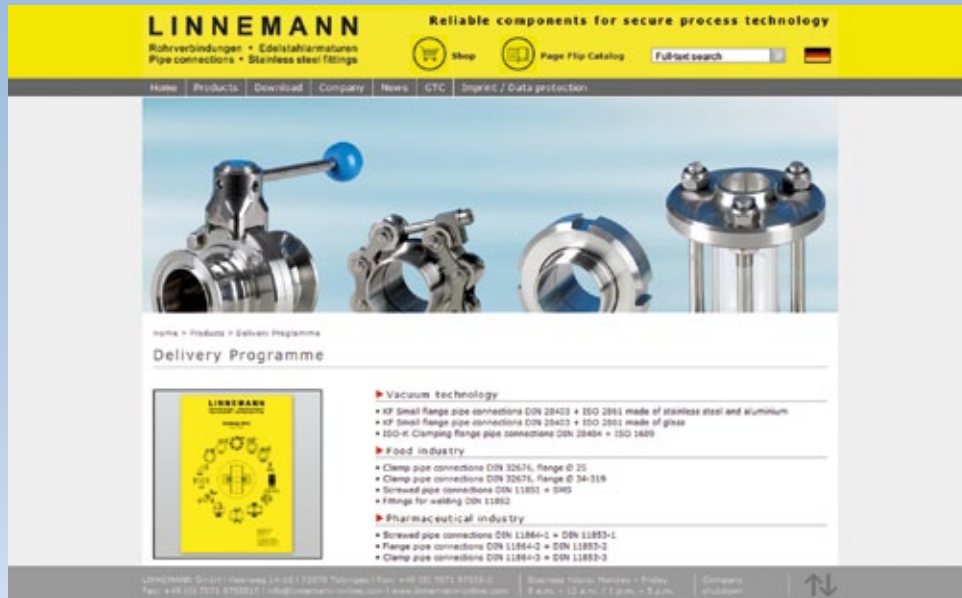
## BULK MATERIALS TECHNIQUE

In the field of bulk material technology, the LINNEMANN GmbH program contains specially designed, pneumatically operated pinch valves. These are available with a variety of different process connections.

The very practical ring grip pipe couplings, which enable easy and safe pipe couplings without the need to weld flanges, are also available for this field of application.

The large-radius arcs and other fittings that are required for bulk handling complete the product range.





## Support – in person and online

### Full-text search

You can access your topic in various ways. Either directly via navigation on the website, or by using the full-text search.

### Page flip catalog

The comprehensive online flip catalog serves as a current reference to help you find the articles you need.

### Shop

You'll also receive quick answers to your questions and a rapid response when placing your orders if you contact us via the shop. Have your personal shop login sent to you. Once you have entered your address, you can always access it quickly agreements made between you and LINNEMANN GmbH are also saved in the same place.

### Themes

All product descriptions are structured to provide a quick, comprehensive overview for your scope of application.

### Download

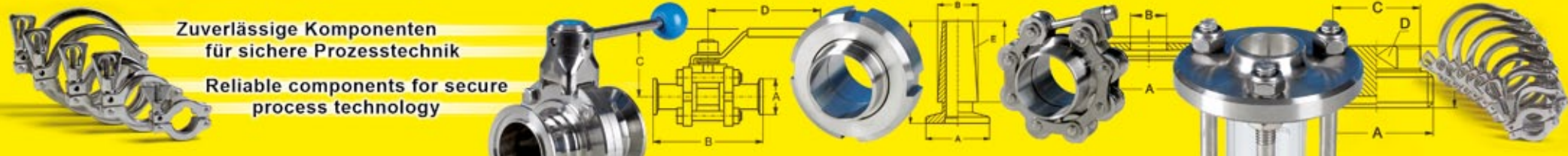
The download area offers extensive technical descriptions.

### Boundless competent advice

The LINNEMANN GmbH team looks forward to hearing from you. On the phone or in answer to your e-mail inquiries. You will also find information on the website to help you complete your tasks.







Future-oriented applications of LINNEMANN pipe connections and stainless steel fittings:  
LINNEMANN clamping screws ensure safe terminations on the particle accelerator at the  
CERN nuclear research centre in Geneva.

