

Innovative coupling systems and fittings for cleaning applications in the food industry



For food processors hygiene has first priority. Therefore working surfaces, machines and spaces need to be cleaned very often.

The used devices need to satisfy high requirements because of rough operating conditions, used cleaning agents and strict IFS guidelines.

In collaboration with the meat producer Wolf and branch specialist Altmann Industrietechnik from Dachau, Lüdecke developed an innovative system for the thorough and efficient cleaning in the food industry.

The Wolf group pays much attention to the freshness and high quality of its products. Absolute hygiene in the production spaces and machines is a basic requirement. The hoses and fittings that have been used for the cleaning process so far (preliminary cleaning and rinsing with clear water) led to some problems in the past and didn't meet the high quality and hygiene requirements of the company Wolf anymore.

The firm is, concerning the hygienic standards, highly oriented towards the strict guidelines of the IFS food certification. Those demands among other standards the use of stainless steel for the fittings.

Customized solutions with the company Altmann and Lüdecke

Because there were no appropriate products for those high requirements available on the market, Wolf chose a cooperation with Altmann and Lüdecke. The company Altmann is already attending and supplying Wolf for several years as highly competent technical provider. Together with the fitting manufacturer Lüdecke, an extensive know-how in the development and production of high quality coupling systems and connection technology, could be obtained.

After an extensive test phase, Altmann could offer a suitable and especially durable hose for each cleaning step. Next, Lüdecke constructed appropriate fittings.



Screwings for the preliminary cleaning

During the preliminary cleaning, high water pressure and cleaning agents are being used.

The assigned requirements meet the high quality and robust screwings developed by Lüdecke (consisting of a swivel nut and a hose nozzle).

The inextricable pressing sleeve connection is perfectly adopted to the hose given by Altmann. The complete fitting is made of stainless steel 1.4404, for a working pressure of 40 bar as well as operating temperatures up to 70°C.

Quick coupling system for rinsing with water

Lüdecke developed a safe, robust and easy to handle quick coupling system for the following cleaning process with clear water. It guarantees a free and clean passage while coupled in order to prevent dirt accumulation.

It's made of stainless steel 1.4305 and contains seals which are especially approved for the food industry (VO 1935/2004). The shape of the release sleeve is so designed that it still remains handy when the surface is wet or when wearing heavy gloves.

The quick connect coupling system can be used with an operating pressure up to 35 bar (depending on the temperature and the way of incorporation) and operating temperatures up to 70°C. The assembly of the hose takes place with a crimp connector, especially adapted to the hose of the company Altmann. The assembly can be fixed or resolved with standard open-end wrenches and is therefore reusable.



Both products have been perfectly adopted to the strict requirements in the food industry.

The use of stainless steel guarantees a particularly high durability of the fittings. Dirt accumulation can be prevented because of the smooth surfaces and the free passage. The whole solution provides a safe, lasting and dense assembly of the hoses which ensures a long lifetime and easy handling.

Pioneer to application in the food industry

The company Wolf is absolutely pleased with its customized system - a demonstration for a perfect development competence of Lüdecke and Altmann. During an intensive practical test, both fittings proved themselves very well and convinced the management as well as the responsible technical directors of the corporation.



Will no longer be allowed in the food industry:
Fittings made of brass

Because of this cooperation, Lüdecke and Altmann could reach a leading role in the field of hose technology for cleaning applications in the food industry.

Together the firms offer a tested solution which meets the applicable conditions and perfectly adopted to the respective application. Fittings made of brass (e.g. claw couplings) which have been used so far, need to be changed in the cleaning areas of food manufacturers because of used materials, not permitted seals and injuries causing incorporations.

Compressed air product range for the food sector

Next to the screwings and quick connect coupling systems Lüdecke also offers components for compressed air applications in the food industry:

- Compressed air blow-off gun with input connector made of stainless steel 1.4305
- Spiraled TFL hose (conform with VO 10/2011) for use with
- Quick connect couplings DN 7,2 made of stainless steel 1.4305

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Since more than 80 years, Lüdecke is the leading partner for developing, engineering and providing coupling systems to connect flexible fluid lines with tools, machines and industrial equipment.

*Lüdecke with its headquarters in Amberg, Bavaria manufactures fittings and couplings for a variety of industrial applications for gaseous and liquid medium.
The product portfolio provides a comprehensive range of industrial and customized solutions - Engineered and Made in Germany.*

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The company Altmann Industrietechnik supports customers from various sectors as an experienced and competent technical provider - starting with the supply of high-precision parts, the assembly, condition monitoring and maintenance up to the planning, construction and manufacturing of individual machine and handling solutions.

Technical competence, reliability, sustainability - with those principles Altmann is your perfect partner.

*For more information visit: www.altmann-industrietechnik.de
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