



# Food & Pharma

Pumps and measurement technology for food, pharma and cosmetics

safety is our concern

# Lutz product portfolio



**Drum and container pumps** ..... from page 8



**Eccentric screw pumps** ..... from page 10



**Flow meters** ..... from page 12



**Air-operated diaphragm pumps** ..... from page 14



**System solutions** ..... from page 16

**Accessories** ..... from page 18

# Quality, standards, requirements

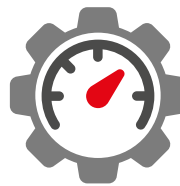
In the food-pharmaceutical industry, it is important to produce high quality products and to ensure that they are safe and suitable for consumption.

In the production of food, raw materials and finished products come into contact with various objects and materials that are safe for human use and consumption. Thus, it is clear that pumps in the food industry must meet a number of requirements. Some of these requirements are



## Hygiene

Pumps must be made of food-grade materials, that are easy to clean and disinfect. Low dead space designs and geometries prevent nesting and the accumulation of germs.



## Reliability

Durability and reliability are a must, in order to achieve a smooth operation and avoid unnecessary downtime.



## Material compatibility

The materials of pumps require special material selection in accordance with FDA CFR and EC 1935/2004 guidelines.



## Cleaning and disinfection

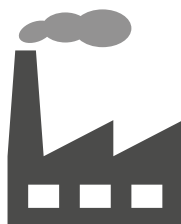
To avoid germ formation and contamination and to ensure thorough cleaning and disinfection, pumps must be easily accessible.

## Lutz Pumpen in figures

DISTRIBUTION AND  
SERVICE NETWORKS  
IN MORE THAN



**80 COUNTRIES**



**FAMILY BUSINESS  
SINCE 1954**

**20 DIFFERENT  
INDUSTRIES**



**> 450  
EMPLOYEES**

ON-SITE REPAIR  
**SERVICE**



**4** COMPANIES  
IN ONE GROUP

**> 20,000,000  
PUMPS SOLD**

**MORE THAN 1,000  
PRODUCT OPTIONS**

## 3 reasons for Lutz

- 1. Quality:** Lutz is well-known for its high-quality pumps. All pumps are manufactured in Germany and are subject to strict quality control to ensure they meet high standards.
- 2. Experience & Service:** Lutz has been in the pump business for over 65 years and has considerable experience in manufacturing pumps for various industries, including the food industry. This long experience has enabled Lutz to build up a comprehensive service network, including technical advice, training and after-sales service.
- 3. Versatility:** Lutz offers a wide range of pumps for the food industry, including drum pumps, centrifugal pumps and eccentric screw drum pumps. These pumps can be used for various applications such as pumping liquids, pastes or viscous products.



## safety is our concern

Environmental standards, product quality and reliability are three of the most important factors for companies. "safety is our concern" - this is our motto. With complete drum drainage, pump tube without grease filling or gas displacement, we contribute to making health and environmental protection a matter of course.

Our pumps are approved according to recognised standards and regulations and meet all requirements of IEC, ATEX, UL, PTB, VDE and CE.



The glass/fork symbol according to Regulation (EC) 1935/2004 is a standardised EU-wide symbol indicating that an item is suitable for contact with food.



The Food and Drug Organisation in the USA certifies materials and substances for the marketing of medicinal products, medical devices or foodstuffs and the fulfilment of safety and efficacy standards.



The USP is a non-profit organisation that develops and monitors compliance with standards for drugs and medical devices.



The 3-A Sanitary Standards are a set of standards for the hygiene of materials and equipment used in the food, beverage and pharmaceutical industries.

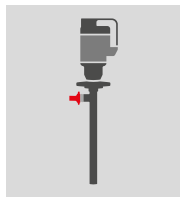


The ATEX directive is a European directive to ensure the safety of equipment and protective systems used in potentially explosive atmospheres.

**QUALITY  
MADE IN  
GERMANY**



# Drum and Container Pumps



Lutz Pumpen, as a renowned manufacturer of pumps and systems, has developed drum and container pumps especially for the requirements of the food industry, which meet the highest hygienic standards and at the same time allow easy handling and cleaning.

The Lutz PURE series includes products that simultaneously comply with the ATEX directives, the FDA regulation and the European regulations according to 1935/2004/EC.

The pump tubes can be disassembled and cleaned. They have no grease filling, which means that no products contamination occurs.

## Applications:

- Feeding low-viscosity fluids/concentrates from drums and IBCs to automated processes.
- Pumping cleaning agents for rinsing food containers.

## Examples of liquids:

Flavourings, milk, sugar solution, water, oils, preservatives, citric acid, alcohol (ethyl alcohol) and alkalis for cleaning

## Properties

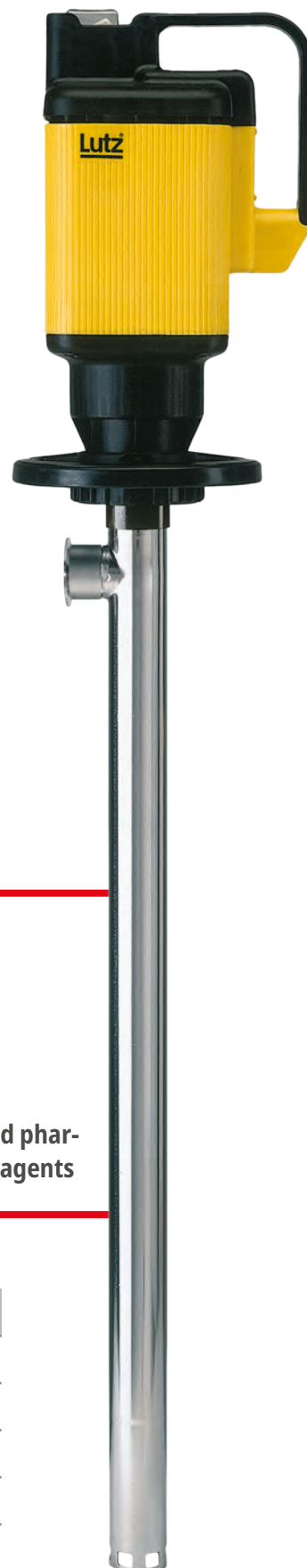
- **physiologically harmless version (PURE)**
- **suitable for food contact according to EC 1935/2004 and FDA**
- **hygienic/aseptic connections**
- **also for foodstuffs containing alcohol, cosmetics and pharmaceutical products as well as flammable cleaning agents**

### Technical data:\*

|                           |                                                                                                                                                                                                                                                             |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flow rate: <sup>1</sup>   | up to 276 l/min.                                                                                                                                                                                                                                            |
| Delivery head:            | up to 36 m WC                                                                                                                                                                                                                                               |
| Viscosity:                | up to 1000 mPas                                                                                                                                                                                                                                             |
| Conformity/certification: |    |

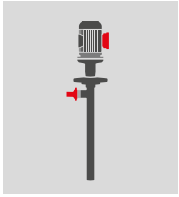
\*depending on model and version

<sup>1</sup> The maximum flow rate is a value determined by means of a test bench and measured with water at a medium temperature of approx. 20°C. The measurement is carried out at the pressure joint of the pump, without hose, nozzle or flow meter. The flow rate achievable in use is lower and depends on the individual application, the media properties and the configuration of the pump. The max. delivery head is also dependent on the pump design, motor and medium. Viscosity determined with oil.





# Eccentric screw pumps



Compared to other pump types, eccentric screw pumps offer several advantages: Due to the gentle and low-pulsation pumping, sensitive and highly viscous products such as food can be pumped.

The pumps are easy to clean and maintain which is an advantage or hygienic applications such as in the food and pharmaceutical industries.

## Applications:

- transferring highly viscous products from containers into smaller containers
- Pumping viscous raw materials for further processing in food processing plants

## Examples of liquids:

Tomato paste, honey, glucose, molasses, fruit concentrate, ice cream and yoghurt, edible oil, lecithin, apple sauce, shampoo, lotion and cream, syrup, malt extract, gelatine.

## Properties

- Versions with explosion protection, 3-A certification as well as PURE versions
- easy to dismantle, easy to clean
- threadless, manually releasable quick connections
- construction free of dead space
- high delivery pressure up to 10 bar due to displacement principle

Technical data:\*

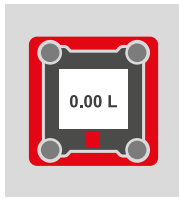
|                           |                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flow rate:                | up to 120 l/min.                                                                                                                                                                                                                                                                                                                                |
| Delivery head:            | up to 10 bar                                                                                                                                                                                                                                                                                                                                    |
| Viscosity:                | up to 120000 mPas                                                                                                                                                                                                                                                                                                                               |
| Conformity/certification: |     |

\*depending on model and version





# Flow meters



The exact measurement of the fluid volume ensures the quality of work processes. Therefore, flow measurement must be rational, economical and, above all, practical - in mobile use as well as in stationary operation. Lutz has the right solution for hygienic applications in the food, pharmaceutical and cosmetics industries: Contactless, indirect quantity measurement with impulsesensor is a hygienic, wear-free and reliable option without direct contact with the pumped liquid.

## Applications:

- regular feeding of liquids within the process in plants and tanks
- accurate metering and measuring of flowing liquids within pipelines.

## Examples of liquids:

aqueous and fatty foodstuffs, highly flammable spirits.

## Properties

- precise volume detection of liquid foodstuffs and raw materials
- materials in contact with liquid are of food quality
- high measuring accuracy due to overrun correction
- simple commissioning and calibration
- external control/evaluation via standard interfaces

### Technical data:\*

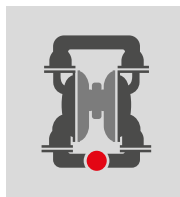
|                           |                                                                                                                                                                                                                                                             |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measuring range:          | up to 100 l/min.                                                                                                                                                                                                                                            |
| Operating pressure:       | 10 bar                                                                                                                                                                                                                                                      |
| Viscosity:                | up to 5000 mPas                                                                                                                                                                                                                                             |
| Conformity/certification: |    |

\*depending on model and version





# Air-operated diaphragm pumps



the further development of the Lutz air-operated diaphragm pumps combines the existing properties with new technical features.

The application possibilities of the double diaphragm pump are very broad: Versatile and variable pumps, ideal for corrosive or neutral, aqueous to highly viscous liquids in food production and processing.

## Applications:

- pumping highly viscous, shear-sensitive media from drums and containers into production vessels
- Solution for feeding large-scale plants with low-viscosity and viscous fluids

## Examples of liquids:

Cream, fruit concentrate, puree, adhesive for food packaging, balsamic vinegar.

## Properties

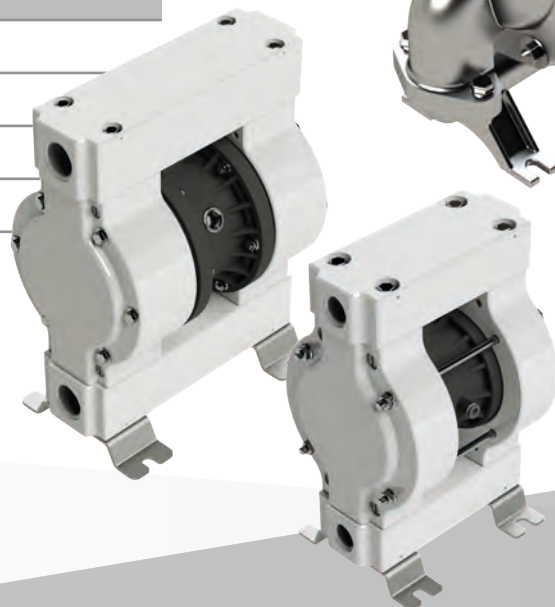
- versions in PURE design/Ex protection
- high hydraulic performance and optimised air consumption
- integrated muffler up to model size AODD 1"
- highly resistant TFM (PTFE) diaphragms (modified PTFE)
- ideal for shear-sensitive fluids



### Technical data:\*

|                           |                                                                                                                                                                         |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flow rate:                | up to 715 l/min.                                                                                                                                                        |
| Delivery head:            | up to 80 m WC                                                                                                                                                           |
| Viscosity:                | up to 30000 mPas                                                                                                                                                        |
| Conformity/certification: |   |

\*depending on model and version





# System solutions



Complex systems in industry require the highest degree of precision in planning and realisation. Lutz Pumpen offers complete systems and planning services for the realisation of standard applications and special requirements.

Thanks to a large number of implemented projects and our many years of know-how, we can provide you with complete and comprehensive support in the implementation of your special requirements.

## Applications:

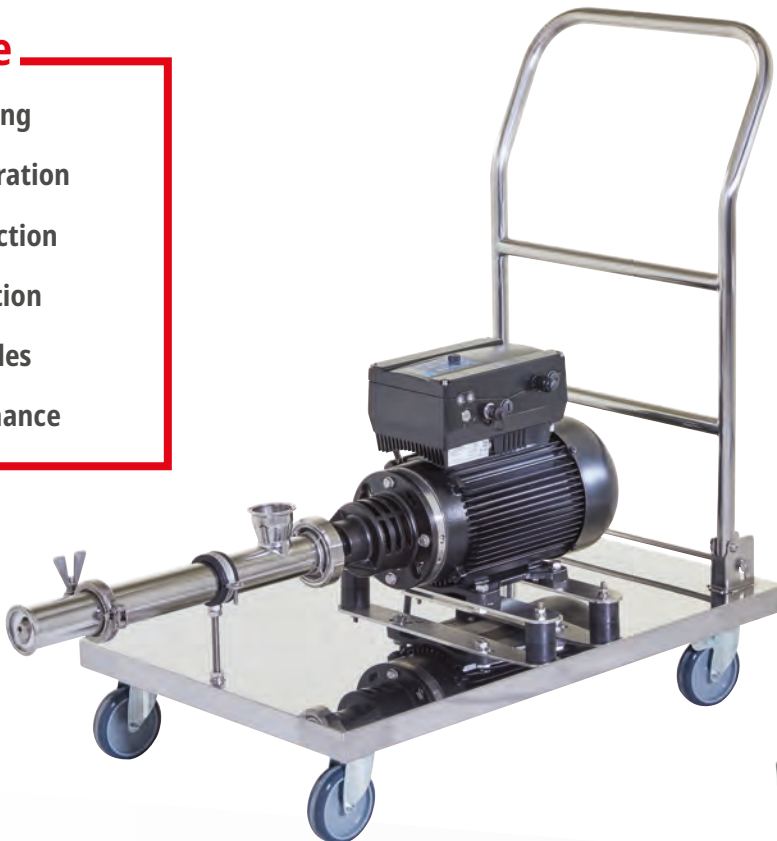
- Pumping of highly viscous, non-self-flowing liquids and almost complete, gentle emptying of the drums
- mobile removal of liquids from stacked containers that are not accessible from above

## Examples of liquids:

Mascara, lotion, cream, Vaseline, glycerine, toothpaste, lipstick, caramel, tomato paste, pasta, poppy seed paste, honey, marzipan, glucose, molasses, syrup, fruit concentrates, ice cream and yoghurt, cooking oil, lecithin, apple sauce, silicone oil, shampoo, malt extract, gelatine

## Service

- Consulting
- Configuration
- Construction
- Installation
- After-sales
- Maintenance





## Our range of accessories



Smooth and safe operation of the drum and container pumps requires a practical range of accessories. Whether for mobile use or permanently installed in a plant – with the Lutz accessories your pump becomes a perfect filling system.

Our accessories comply with Regulation (EC) 1935/2004 and are marked with the "glass/fork symbol" for food safety.



### **Discharge spout**

for direct filling and transferring into containers



### **Nozzles**

for safe transferring of liquids



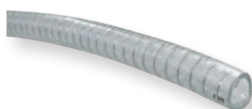
### **Lifting device**

for safe lifting/lowering of the pump



### **Connections**

Tri Clamp, milk pipe thread, aseptic, wine screw connection



### **Hoses**

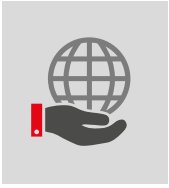
available in many materials/designs



### **Hose connections and hose connectors**

suitable for all applications

# Service



Lutz Pumpen is your reliable partner with a worldwide network of competent representatives for all service questions concerning our products.

Customer-oriented action ranges from advice to sales and after-sales service. To be on the safe side, we offer not only high-quality products but also comprehensive services.



Online guide



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Spare parts



Repair videos



Do you have any questions about our products, do you need assistance with the selection for your project or are you looking for a contact person on site?

**Our experts will be happy to advise you:**

**[anfrage@lutz-pumpen.de](mailto:anfrage@lutz-pumpen.de) | Phone +49 9342 879-260**



State of the art 10/2023 Order No. 0699-411

Would you like to discover our  
complete portfolio?

You can find our brochures here:



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