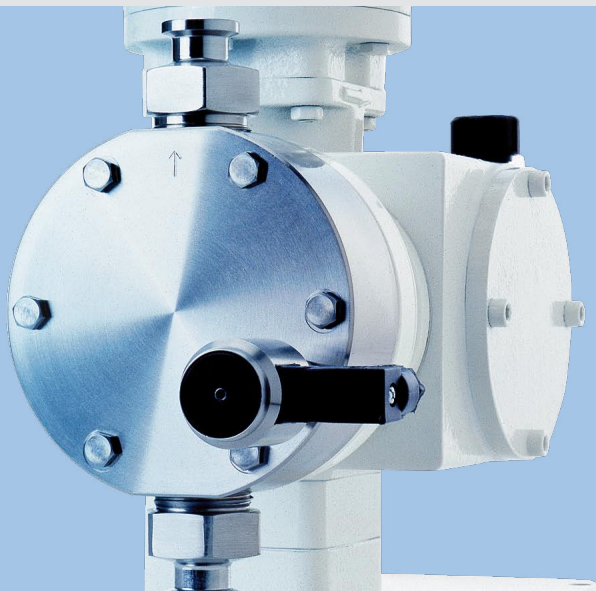


# LEWA ecodos<sup>®</sup> sanitary

Diaphragm pump series



- hermetically tight
- accurate, repeatable metering
- low hold-up volume
- low shear handling of fluids
- reliable and economical
- low maintenance



# LEWA pump design – setting the standards for industry



One pump for many applications:  
Production of jellied sweets.



Metering of colours, flavours,  
or preservatives.



Transfer of mustard and other  
viscous products.

## Performance

LEWA ecodos® sanitary pumps provide fluid metering and transfer from 0.4 l/h to 1,500 l/h per pump head. Up to six pumps can be multiplexed for additional capacity or to reduce pulsation. Whether using open loop control for simple systems or closed loop control for more complex applications, the end result is a process with exactly metered ingredients to achieve consistent product quality. LEWA ecodos® sanitary pumps are suited to applications with discharge pressures up to 20 bar (300 psig).

## Main features of the pump

- Sealless, and hermetically tight
- No sliding seals or packing
- Low hold-up volume
- Suitable for CIP
- Run-dry safe
- Easy disassembly and re-assembly of the pumping chamber
- Multiplex capable
- Compact for small footprint
- Long uptimes

## Surface finishes

All pump head components are manufactured of 1.4571 (316Ti) stainless steel, and wetted surfaces are mechanically polished to sanitary industry standards ( $\leq 0.8 \mu\text{m}$ ). This provides corrosion resistant and easy-to-clean surfaces.

## Leaktight and fail-safe

The LEWA ecodos® "safety diaphragm" is made of pure, solid pure PTFE compatible with biological tissue (USP Class VI). Should perforation of the working diaphragm layer occur, an immediate signal is given by the diaphragm condition monitor for shutdown.

## FDA approved materials

All materials of construction wetted by the process fluids are FDA approved and therefore compatible with food and drug products.

## Tri-clamp or other sanitary fittings

For easy integration into existing or new process lines, tri-clamp or other design sanitary fittings are available to meet user requirements.

## Proper documentation

Extensive documentation is a matter of course at LEWA. Included with the operating manuals are technical data sheets, cross-sectional drawings, material traceability and wear and spare parts lists. Test reports, pressure tests and output diagrams are available as options.



LEWA pumps have many configurations that run the range from simple metering to skids for introducing micro-ingredients.



Proportional blending of liquid ingredients.



Complex systems for proportional blending or transfer of multiple product streams.

### Proportional blending

LEWA metering technology satisfies customer requirements for continuous production, resulting in cost savings and waste reduction. Whether for simultaneous blending of different ingredient streams in proportional amounts, or for injecting accurate and repeatable amounts of micro-ingredients into a main process stream, LEWA ecodos® pumps have been proven in operation for many years.

### Fluid transfer

LEWA diaphragm pumping technology makes it possible to handle shear-sensitive and expensive ingredients in a hermetically sealed pumping environment and with gentle pumping action. Due to the extreme low hold-up volume in the pump head and the pressure-stiff characteristics of diaphragm pumps, fluids pass through the pump head quickly and without inefficient slippage.



Ideal for all applications:  
LEWA ecodos® – the ultimate sealless diaphragm pump with low hold-up volume and polished wetted surfaces.

Creating Fluid Solutions

**LEWA**  
pumps + systems

# LEWA proven services and technologies

## Germany / Headquarters

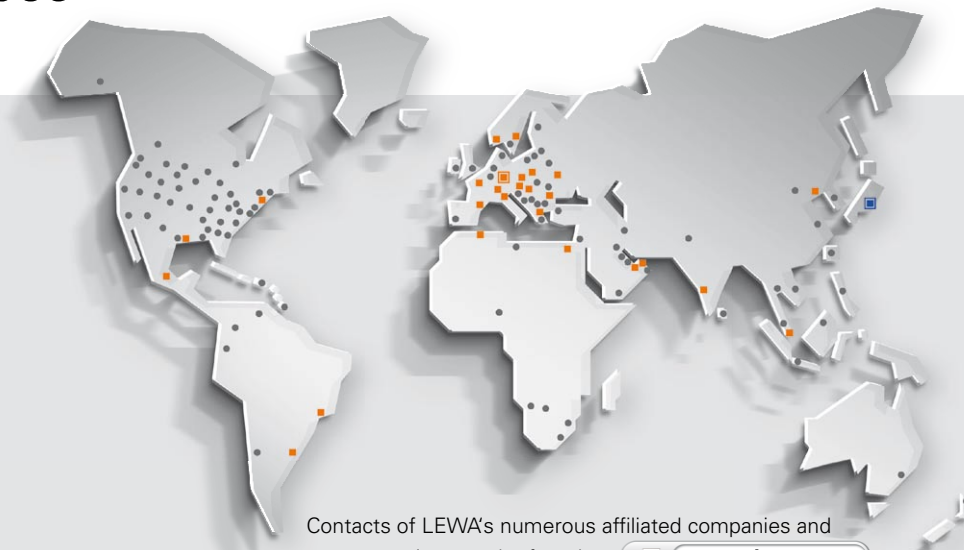
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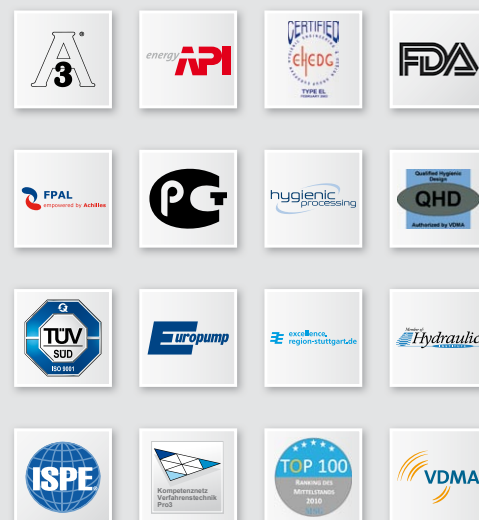
Contacts of LEWA's numerous affiliated companies and representatives can be found on [www.lewa.com](http://www.lewa.com)

## Customized solutions for metering and process technology

For more than 50 years, LEWA has set the technical trends of metering pumps and systems. LEWA offers a single-source solution to handling complex metering and mixing tasks – ranging from individual pump configuration, basic and detailed system engineering and pretesting to onsite commissioning and maintenance services.

### Good causes to rely on:

- A solution for your special application: from process analysis to global service
- Highest process safety: individual pump configuration and state-of-the-art design
- International engineering and project competencies
- Highest reliability: developed for continuous operation
- Low lifetime costs: reduced energy consumption and low-wear design
- Compliance with international standards, e.g. API, ASME, GOST-R, FDA, EHEDG, 3A, TÜV
- Comprehensive reference list



## Areas of expertise:



Oil & Gas



Chemicals & Petrochemicals



Pharma & Biotech



Personal Care



Food & Beverages



Plastics



Cleaning & Detergents



Energy & Environment



Gas Odorization

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