

# Diaphragm metering pumps

for sterile applications in the pharmaceutical industry (GMP).

LEWA diaphragm metering pumps are the perfect choice for various sterile applications in the GMP environment. We design and manufacture special aseptic solutions, when it is about metering or dosing of sensitive fluids.

LEWA pumps feature

- Hermetically tight diaphragm technology protects sensitive, corrosive and harmful fluids
- Consistently high end product quality thanks to highest production reliability and controlled processes



Short  
lead-time:  
pumps on  
stock.

## Areas of application:

---

Biopharma (downstream purification)

---

Pharma (API/vaccines/oligonucleotides)

---

Media preparation (buffer Inline-dilution)

---

Utilities (WFI; CIP/SIP)

---



## Your benefits in detail:

- Liquid end hermetically tight, 4-layer safety diaphragm with leakage detection
- Flowrate 2 - 8000 l/h; modular pump heads
- Wide turn down ratio (1:200)
- Good pressure performance (linear; step, gradient) up to 20 bar
- Superior priming, low shear and wear
- CIP/SIP up to 150°C

- Aseptic design according to EHEDG
- Compact servomotor without fan (cleanroom)
- 316L or higher (e.g. hastelloy) and plastic (e.g. PP)
- Continuous operation possible (24/7)
- ATEX design possible
- Qualified in the OEM pharmaceutical sector worldwide for more than 25 years
- Customized solutions upon request

## Global availability:

- Short lead-time
- Local consultation worldwide
- Expert chat with LEWA

## References:



<b>Industry</b>	Pharma API	Biopharma
<b>Application</b>	Oligonucleotides DNA/RNA synthesis; highly toxic and flammable fluids up to 10 bar	Conveying aqueous buffers, WFI and monoclonal antibodies at various flow rates (linear, step or gradient) at a pressure of up to 6 bar max.
<b>LEWA solution</b>	<ul style="list-style-type: none"> <li>– Hermetically tight diaphragm metering pump in sanitary design</li> <li>– CIP/SIP possible</li> <li>– Multiplex design</li> <li>– Compact motor for clean environment</li> </ul>	<ul style="list-style-type: none"> <li>– Hermetically tight diaphragm metering pump for chromatography, inline dilution processes among others</li> <li>– CIP possible</li> <li>– Corrosive resistant polypropylene or PEEK pump heads (no metal in fluid path)</li> <li>– Multiplex design</li> </ul>

## Contact our subject matter expert:

Dr. Hans-Joachim Johl, Product Management Clean Markets  
 hans-joachim.johl@lewa.de, +49 7152 14-1376