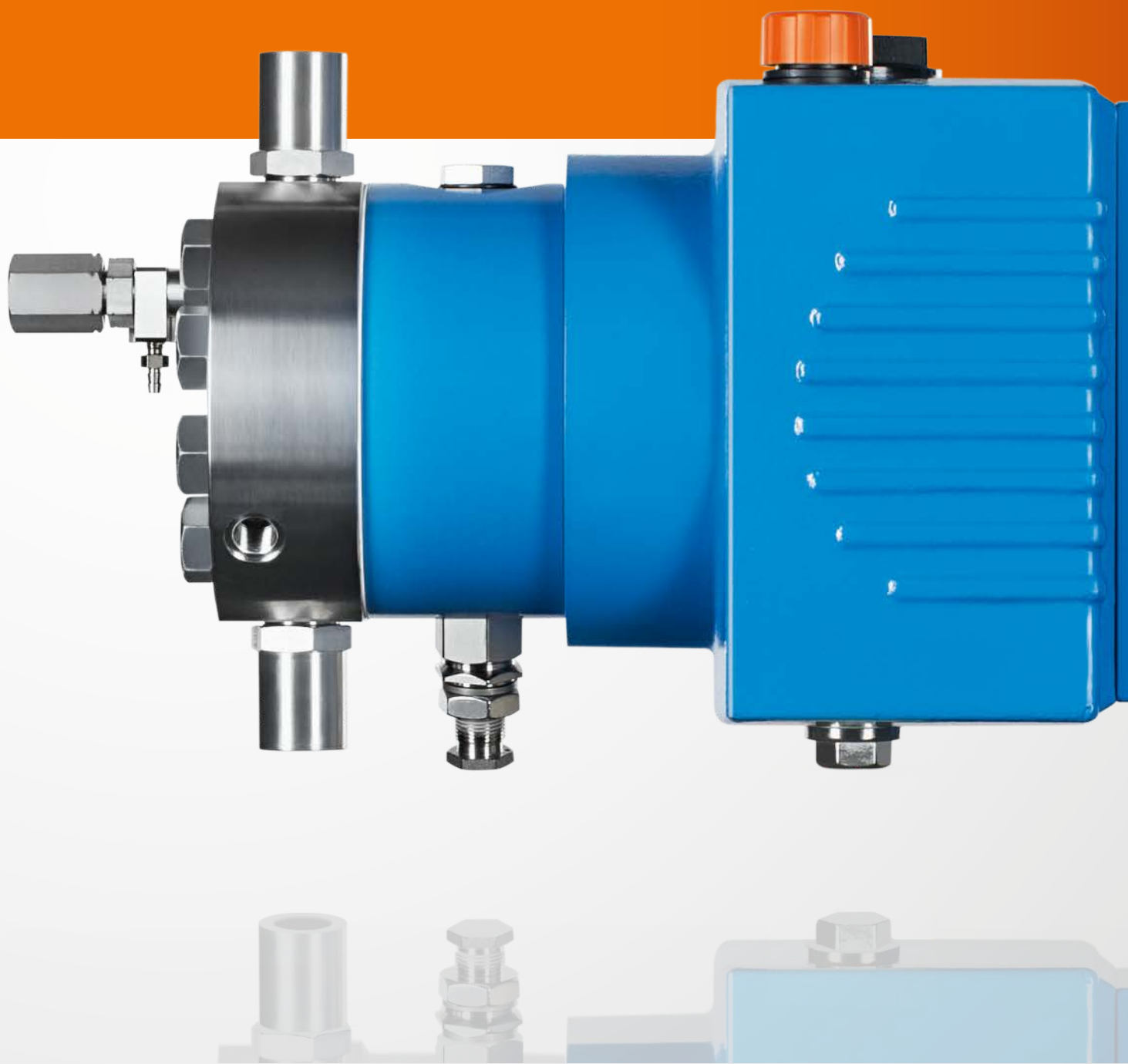
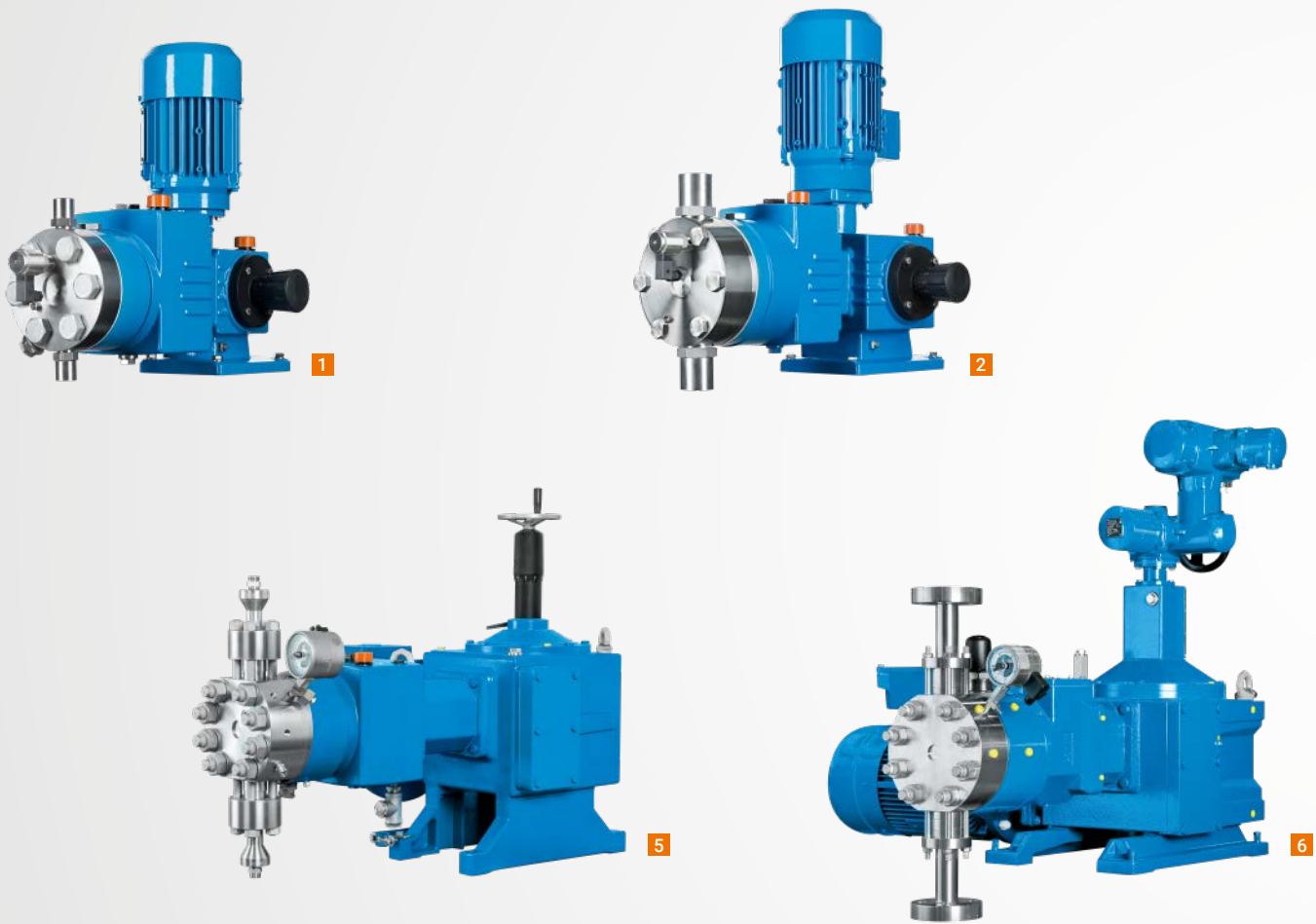


metering pumps.

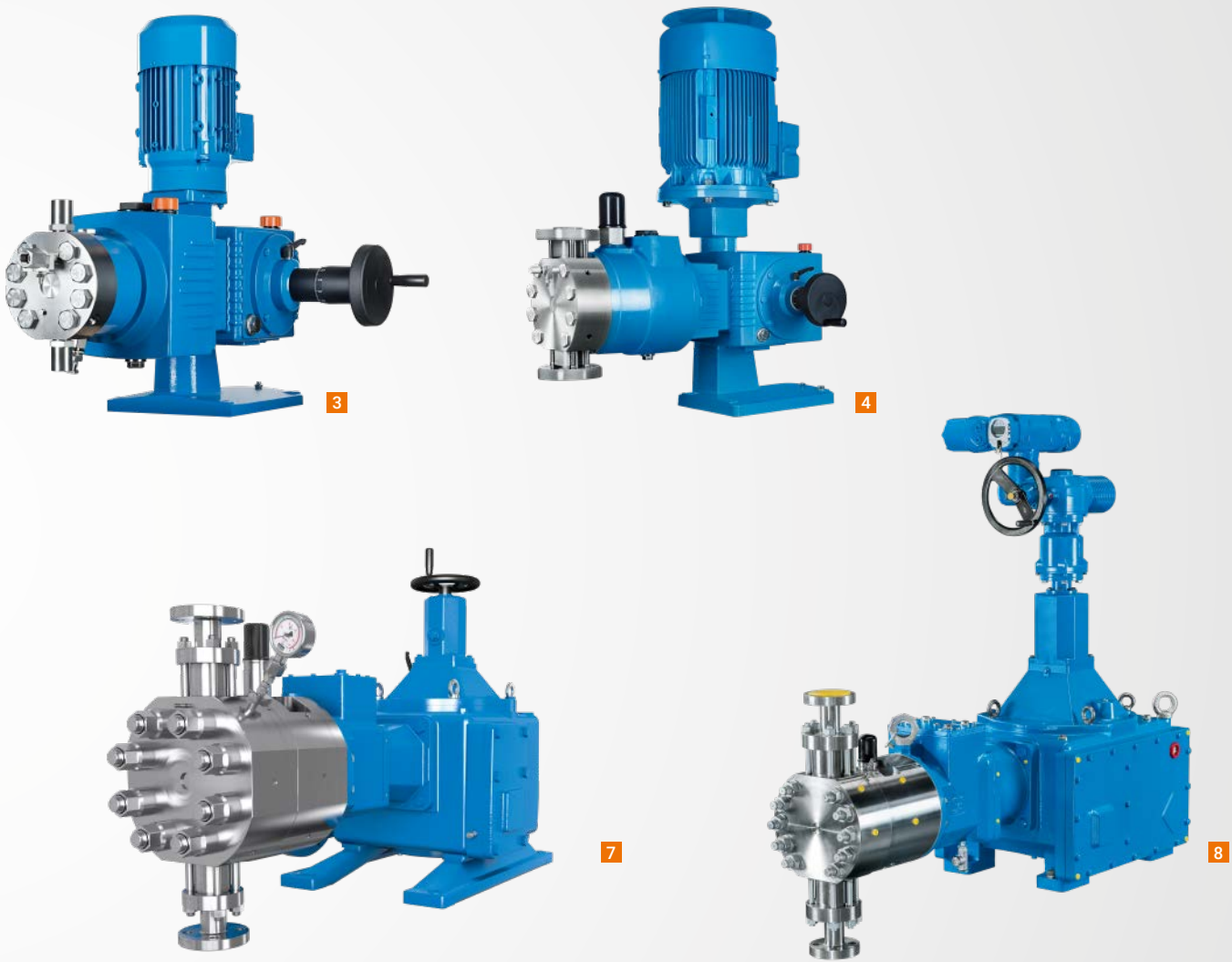


metering pumps.

LEWA



LDB	1	LDC	2	LDD	3	LDE	4
max. hydraulic power (drive unit)	0.14 kW	max. hydraulic power (drive unit)	0.36 kW	max. hydraulic power (drive unit)	1.0 kW	max. hydraulic power (drive unit)	2.9 kW



LDF	5	LDG/LDGB	6	LDZ	7	LDH/LDHB	8
max. hydraulic power (drive unit)	6.5 kW	max. hydraulic power (drive unit)	9.5 kW/ 9.0 kW	max. hydraulic power (drive unit)	16.5 kW	max. hydraulic power (drive unit)	23kW/ 46 kW

LEWA ecoflow is a hydraulically actuated metering diaphragm pump. The design principle ensures that the diaphragm of the pump head always works in the defined range.

Diaphragm pumps are used when leak tightness and operational reliability are in demand. Especially for fluids that are hazardous, abrasive, environmentally harmful, or sensitive. To keep the load on the diaphragm as low as possible, it is hydraulically actuated in the LEWA ecoflow. In combination with the DPS (Diaphragm Protection System), a long diaphragm service life can be guaranteed.

Low-wear valves for a variety of tasks

Operational reliability and service life are decisively dependent on valve quality. The valve design is therefore adapted to the specific application.

The right material for any fluid

The standard material is stainless steel 1.4401/1.4404 (AISI 316/316L). Material options of different metals and plastics are possible.

Minimum dead space, short dwell times

By optimizing the design of the pump head, the clearance volume in the working chamber can be kept low. The fluid flow is designed to ensure the problem-free execution of flushing and drying procedures.

**Diaphragm monitoring system:
For reliable status indication**

The standard diaphragm monitoring system reliably shows the status of the diaphragm. Production can be stopped without danger in any case. The indication is realized via a pressure signal.

Pressure limiting valve

A pressure limiting valve in the hydraulic part of the pump prevents any overload situations in the pump. It can be individually adjusted in the LEWA ecoflow.

**High metering accuracy,
gentle conveyance**

Metering pumps offer high metering accuracy and gentle conveyance, are stroke adjustable (manually, electrically, or pneumatically), and can also be adjusted in stroke frequency using a frequency converter. The reproducibility of settings is better than $\pm 1\%$.

Hydraulic control

The hydraulic valve ensures stable, precise operating conditions.

Lubrication

All moving parts run with immersion bath lubrication in oil

Separation of hydraulic and drive oil

This separation permits optimum adaptation to environmental influences as well as the requirements of the fluid and the process

Simple, reliable start-up

The diaphragm protection system ensures problem-free start-ups even under unfavorable background conditions

You can find a technical animation of the functionality [here](#):

