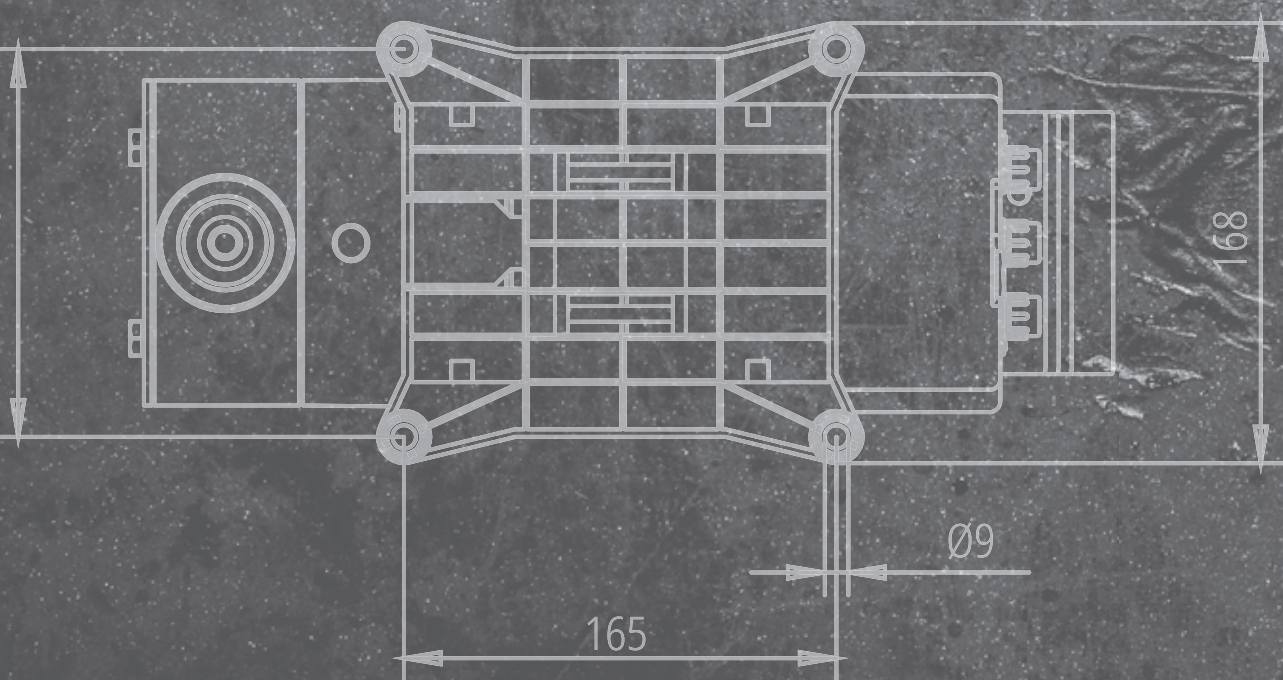
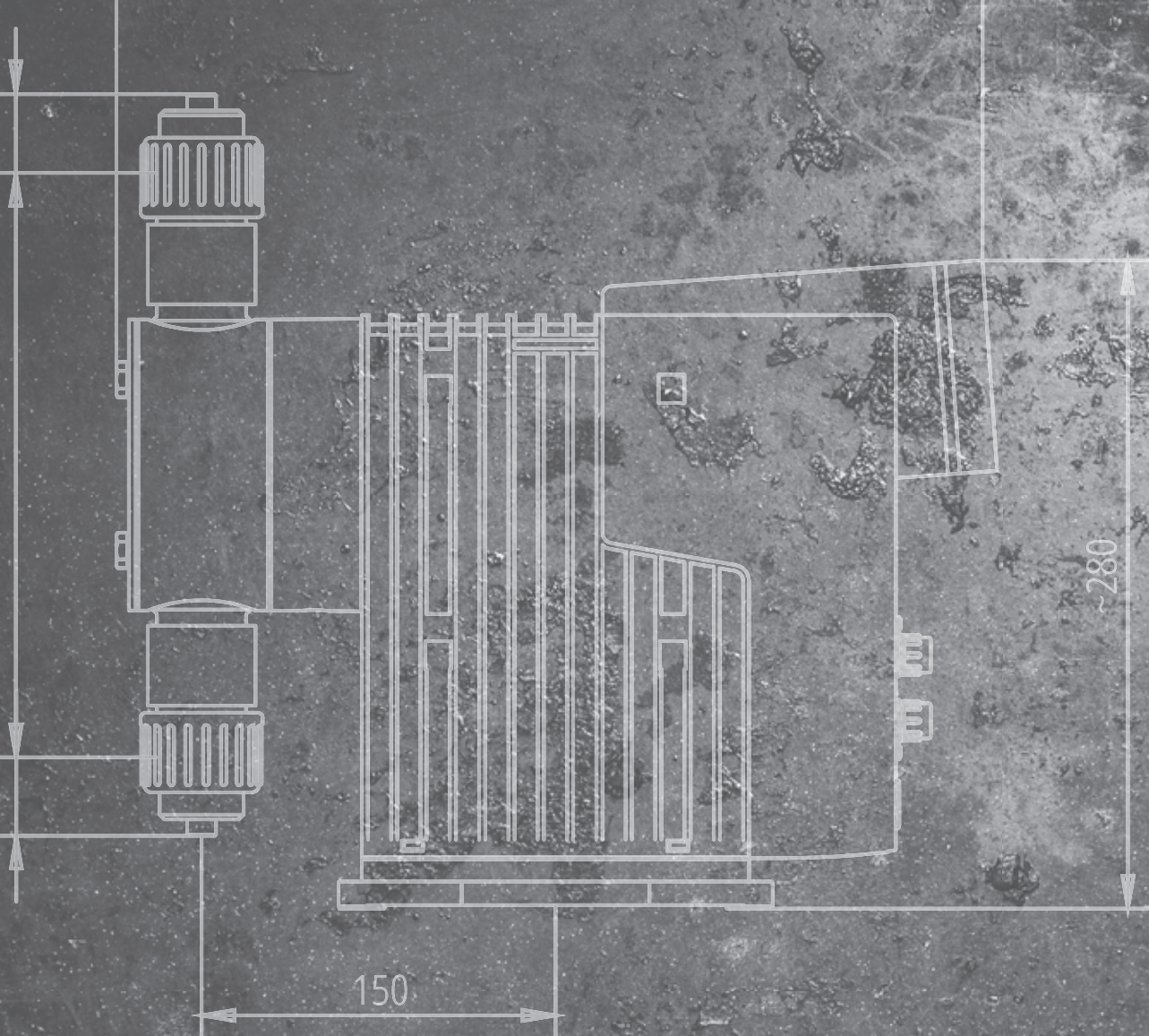




MEMDOS SMART

New Generation

safety is our concern



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The Smart series

Reliable dosing of chemicals

The new generation of the stepper motor-driven diaphragm dosing pump MEMDOS SMART provides a wide range of attractive solutions for demanding dosing tasks. The new stepper motor technology permits high-accuracy dosing of even the smallest volumes. Asynchronous running with various speeds of the suction and pressure stroke enables homogeneous and pulse-reduced dosing. The further development of the Slow mode permits the transport of highly-viscous media at even greater levels of reliability and reproducibility. Available in seven versions, the new generation of the MEMDOS SMART provides a range of different functionalities. Two sizes of the MEMDOS SMART series are available.

Possible performance ranges from 2.6 l/h at 20 bar to 30.7 l/h at 6 bar in the first size and 58.5 l/h at 10 bar to 182 l/h at 4 bar in the second size.

Several different materials and connections are available for suction and discharge side, depending on the specific applications.

Accessory sets consisting of a hose, injection nozzle and suction line are available to enable optimal results and quick installation.



The product advantages at a glance

- **Intelligent**
Evaluable external sensors such as pressure sensor, flow meter, water meter and Flowcon.
- **Scalable**
Scalable analogue and pulse input.
- **Safety**
Freely-settable password protection for various menu areas. For the creation of various user levels / releases.
- **Individual**
Freely-programmable alarm relay.
Display - signal colours can be selected for various warnings or messages.
- **Saves space**
A compact design makes it the most space-saving step motor pump of its class.
- **Comfortable**
The operator units are all compatible
A unit can be used for various pumps.
- **Clear setup**
Removable display for wall mounting with difficult-to-access pumps.
- **Intuitive operation**
A well set out user interface with structured menu navigation permits simple and easy operation.



Design



Dimensions

MEMDOS SMART 2 – 30

All dimensions in mm

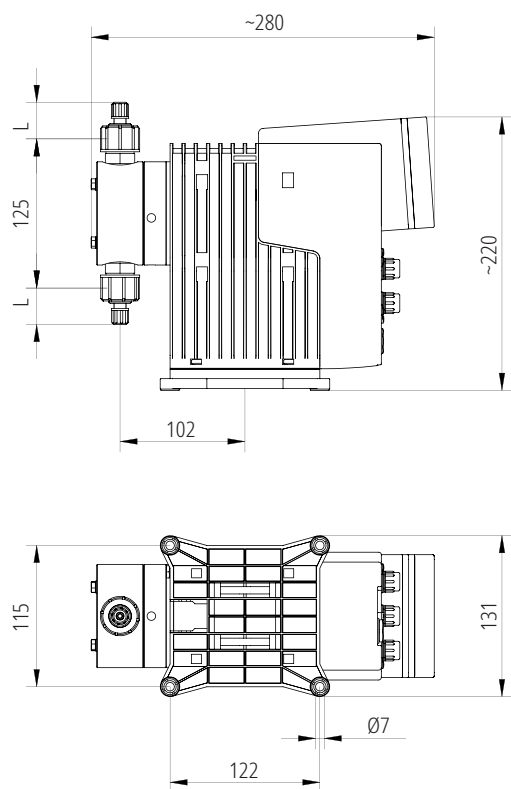


Figure: LPX 30
The dimension L depends on the type and size of the connection.

MEMDOS SMART 60 – 180

All dimensions in mm

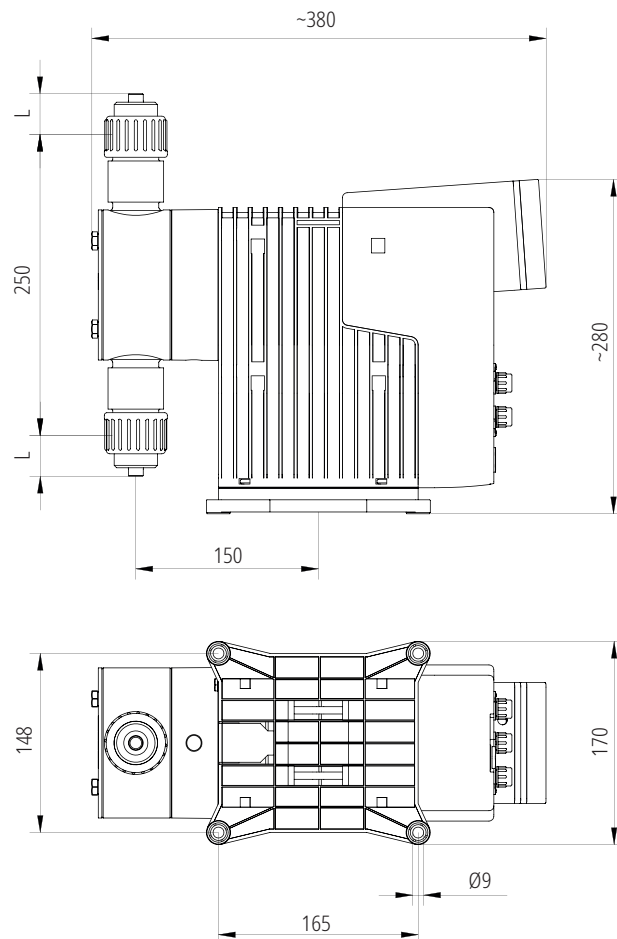
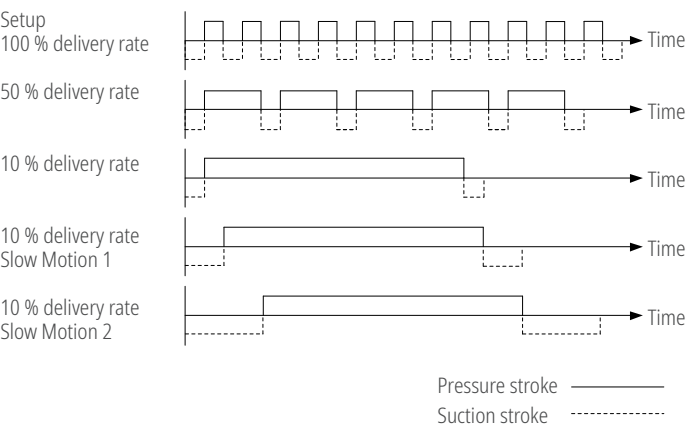


Figure: LPX 180
The dimension L depends on the type and size of the connection.

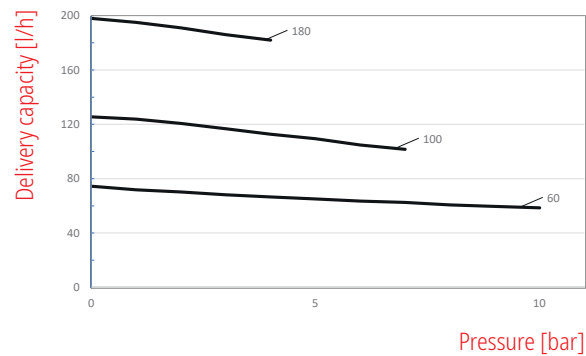
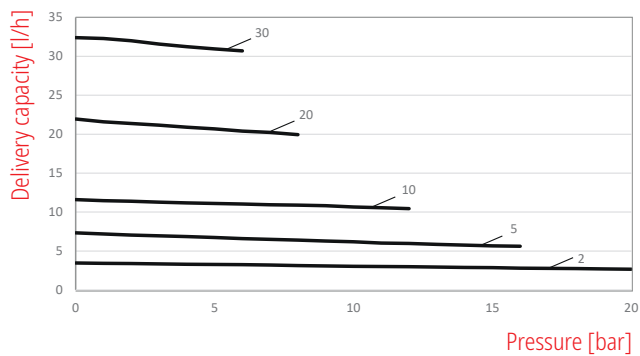
Conveying characteristics

For low supply rates, for example, the dosing pump performs the suction stroke at the maximum speed and adjusts the speed of the pressure stroke to match the desired supply rate. This produces an almost constant supply stream, which enables low-pulsation, low stress dosing.



Delivery characteristic curves

These delivery capacities were determined on the manufacturer's test stands. They apply at 20 °C (68 °F) for water, at 100 % stroke frequency. The delivery capacity depends on the medium (density and viscosity) and temperature. Since these conditions vary at every installation location, you should calibrate the dosing pump.





Accessories

■ Suction lines

Type SL-2 with ceramic reinforcement piece, cable length 3,000 mm, tube length 2,500 mm. Level monitoring and pre-alarm with 2 switching points, switching distance approx. 50 mm. Switching function: Closer on rising level, electrical connection to dosing pump via plug connector M12x1. Flexible suction line, SA model with foot valve and load part made from ceramic and 2500 mm tube length.

■ Injection nozzles

To connect the dosing line to the dosing point. Injection nozzle type R, spring loaded, opening pressure 0.1 bar.

■ Suction and pressure tubes

Permissible operating pressure at 20 °C in accordance with DIN EN ISO 7751, chemical resistance and correct connection are assumed.

■ Back-pressure and pressure relief valves

Back-pressure valves to be mounted in the dosing line.

Adjustable pressure 1 – 16 bar.

Pressure-relief valves to be mounted in the dosing line.

Settable pressure: plastic 1 – 16 bar, stainless steel 1 – 25 bar

■ Various cables, plugs and adapters

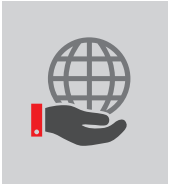
Cable for: external release pulse output A coded, 0/4 – 20 mA and pulse input A coded, fault message B coded, level control A coded, Ethernet network connection A coded.

Terminal connection: for retrofitting existing suction lines or level monitors.

Adapter: when using older suction lines with a 3.5 mm jack plug; when using a suction line with M12x1 plug connector.



Service

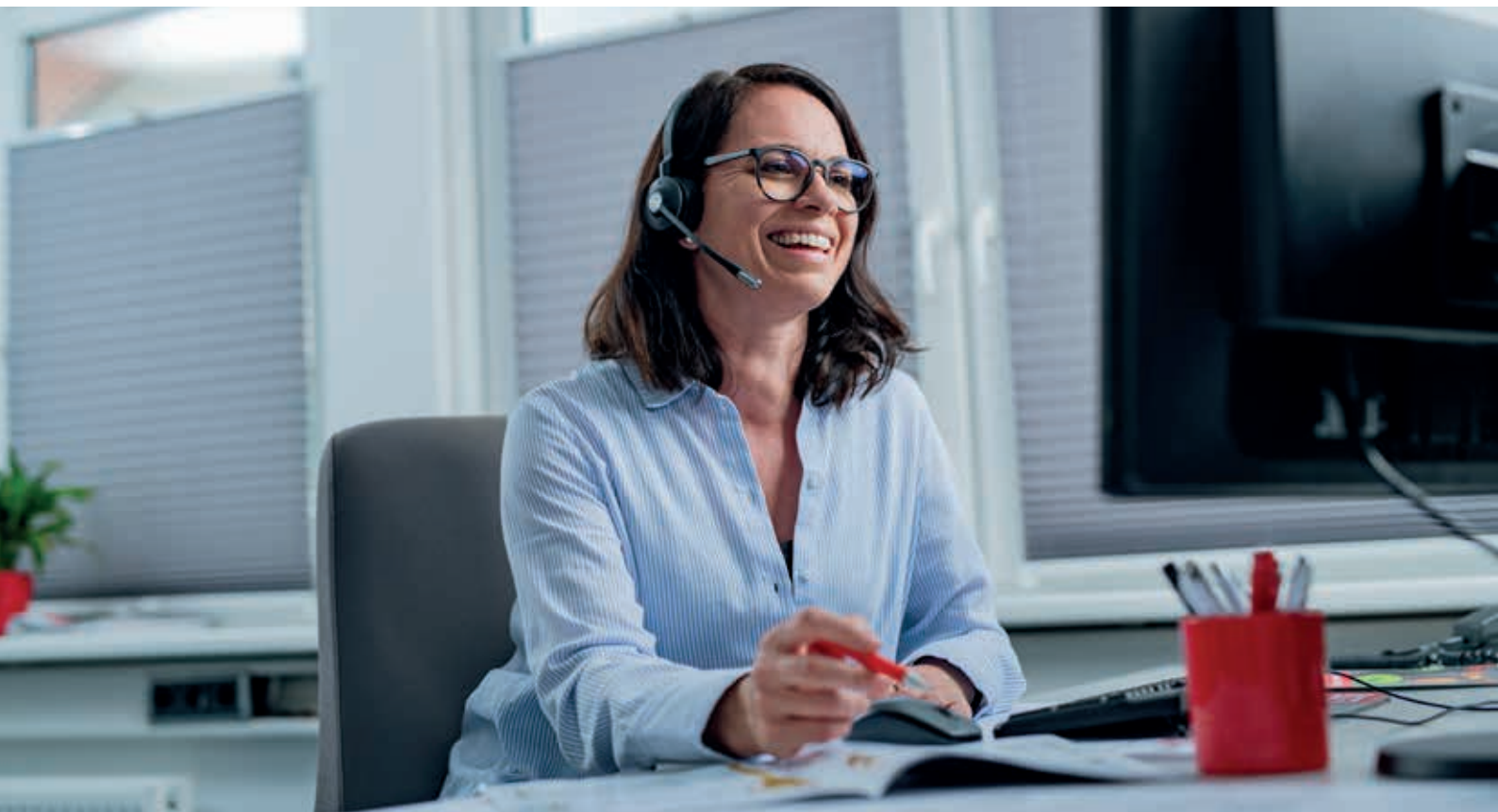


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