

## Systems for metering of additives in plastic melts



The LEWA heated cabinet assures that all wetted parts are kept exactly at the operating temperature and "cold spots" are prevented.

For further processing of plastics such as PVC-U, PP, PC and PE in the extruder different waxes, flame retardants and sliding agents must be added. These additives and the composite materials must be kept at operating temperature, for the most part 90°C. "Cold spots" must be prevented.

For these and similar applications LEWA have developed heated standard metering systems, which assure trouble free production.

The LEWA metering systems provide the processing temperatures specified for customer processes over the complete mixing process up to the extruder. The typical range for metering and monitoring of additives is 0,5 – 22 l/h at fluctuating discharge pressures up to 50 bar and viscosities of mostly less than 1000 mPas. The systems consist of a metering pump with control via mass flowmeter, a micro-processor and a frequency-controlled motor as well as instrumentation. The most important partial tasks of the metering systems ready for installation are:

- Tempering
- Insulating
- Metering
- Monitoring, measuring and closed loop control

High customer benefit due to optimised, heated cabinet design

All pipelines and their components as well as measuring instruments are installed in a specially equipped, heated and insulated stainless steel cabinet. The cabinet is supplied with electrical finned tube heating elements and an air circulating fan to maintain the exact operating temperature of all parts in the production line.

Complete systems: user friendly and easy to service

The sensitive instruments for flow proportional metering of the fluid in a closed loop control based on the pump characteristics and the actual value of the flow measurement are installed in a separate cabinet.

The output values can be read off as desired and actual value at the same time. The process pressure and diaphragm rupture monitoring are displayed as well. Also the control of the heating surface temperature and the circulating air temperature is located there.

Special operation- and service-friendly handling is provided due to smart design and easy accessibility of the piping as well as two lockable folding doors, which can be opened widely. For overhauling all side frames can even be dismantled easily. Two micro-filters can be operated alternately, can be switched over from outside and are easy to replace even during operation.

LEWA, your partner for metering technology

The excellent product properties, decades of experience and the extensive expertise of the technical global market leader make LEWA a reliable partner even for extraordinary tasks of plastics processing.

A MEMBER OF **NIKISO**  
**LEWA**  
pumps + systems

Creating Fluid Solutions

LEWA GmbH  
Ulmer Straße 10  
71229 Leonberg  
Telephone +49 7152 14-0  
Telefax +49 7152 14-1303  
E-mail [lewa@lewa.de](mailto:lewa@lewa.de)  
Internet [www.lewa.de](http://www.lewa.de)