

PRESS INFORMATON

LEWA ecoflow: Diaphragm lasts for at least 18 months

If environmentally detrimental, dangerous, sensible or abrasive fluids have to be metered, zero-leakage diaphragm pumps are the first choice.

For pressures up to 400bar (5.800psig) (PTFE diaphragm) resp. 1200 bar (17.400psig) (metal diaphragm) and for flows between 1 l/h and 10m³/h LEWA ecoflow sets the standards regarding application range, economic efficiency and operational safety. These diaphragm metering pumps are hermetically safe and can be used for abrasive, critical, sterile, toxic and inflammable fluids without problems. Apart from the high precision and easy operation the users mostly appreciate the remarkable reliability of ecoflow metering pumps.

Among other, this is due to the core piece of this development with many variants, the completely new developed diaphragm pump head M900 with PTFE diaphragm, equipped with the diaphragm protection system DPS.

The particularity of the diaphragm protection system DPS: It safely controls the diaphragm movement and assures that the diaphragm deflection does not exceed the limits specified (this excludes a overexpansion that would reduce the diaphragm service life time). In addition there is the diaphragm monitoring system, which reliably indicates any failure of the multilayer PTFE sandwich diaphragm. Due to the second diaphragm layer the pump still remains hermetically tight and operation can be continued for a limited period of time until diaphragm replacement. This prevents unscheduled production losses.

The reliable control of the diaphragm movement in combination with the monitoring of the sandwich diaphragm is unique worldwide. So the DPS-system creates considerable safety reserves and renders the operation of the LEWA ecoflow especially efficient.

The practical experiences regarding the reliability and the life time of the DPS-protected M900 diaphragm are extremely positive. Therefore LEWA offers an 18 months warranty for M900 diaphragms installed in metering pumps. The warranty covers all metal as well as PTFE diaphragms.



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