

More Safety in Permanent Operation with Mechanically Actuated Safety Diaphragms

Motor Metering Pump Makro TZ (TZMb)



The core of the liquid end is a multilayer metering diaphragm. A large-sized steel core is vulcanised into a chemical- and temperature-resistant EPDM material and in addition reinforced by polyamide fabric. The diaphragm is now coated with PTFE film on two sides. This guarantees that the diaphragm does not produce any leakage to the outside in case of diaphragm failure. When the diaphragm ruptures, the metering medium enters between the diaphragm layers and thus triggers an alarm via a special sensor area of the diaphragm.

Advantages

- More safety in permanent operation, longer life, reduction of the maintenance and repair costs thanks to the multilayer safety diaphragm with diaphragm failure sensor
- 4 material types allow for a broad range of individual applications: PP/PVC/PTFE/SS
- Low-pulsation metering without additional peripherals with a dual head, triplex or multiplex pump
- Adaptation to each control task via external frequency converter, motor with integrated frequency converter, stroke sensor

Features

- Safe metering, also of media with special hazard measures as well as in explosive atmospheres thanks to ATEX-compliant design of the metering pumps
- Easy installation of drive motors with Ex protection thanks to different motor flange connections
- Can be used worldwide thanks to country-specific standards and deviating voltages
- Optimal process result in the output range of 2,100 l/h, 4 bar, with a metering accuracy of $\pm 2\%$

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