

BEKOMAT i4.0 GOES DIGITAL

Networked compressed air preparation

BEKO Technologies is taking another step towards the fully networked compressed air preparation of the future. BEKOMAT i4.0 is a fusion of proven condensate drainage and digitalization. In addition to the reliable discharge of oily and contaminated condensate without loss of compressed air, the device also communicates with control systems and control rooms. Thus, all industry expectations for intelligent systems such as networkability, remote monitoring and flexibility are met by the BEKOMAT i4.0.

Proven technology now also network-compatible

BEKO TECHNOLOGIES offers a common industry standard with BEKOMAT. The robust unit drains condensate without pressure loss, thus saving energy and CO₂ emissions. This is made possible by an integrated capacitive sensor, intelligent electronics for volume-adjusted condensate drainage and solenoid valve pilot control. The new BEKOMAT i4.0 generation offers users additional advantages in terms of digitalization and increased process reliability. The IIOT-capable product range consists of 13 models for different performance levels and requirements and provides continuous real-time data on the status of each individual trap of optimum transparency and monitoring.



BEKOMAT i4.0 - the future-proof fusion of proven condensate drainage & digitalization

Picture source: BEKO TECHNOLOGIES



Advanced condensate management

Central control stations receive information from the BEKOMAT i4.0 steam trap via an RS485 industrial bus interface. Intelligent condensate management is made possible by visualizing the performance and function data of all connected steam traps in real time. Important conclusions about the entire compressed air system can thus be drawn from the status messages. In order to prevent failures and plan maintenance on schedule, early warning and alarm signals indicate targeted service measures.

One cable for power supply and simultaneously for data transmission is sufficient for the new BEKOMAT i4.0 steam trap. Thanks to the daisy chain connection technology, the cable is pulled from one device to the next. This reduces the installation effort to a minimum and an extension of the system is possible without any problems.

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Networking with minimal installation effort



Networking of all BEKOMAT steam traps via daisy chain
Picture source: BEKO TECHNOLOGIES

Your advantages

Digitization as standard

- Connectivity and advanced communication
- Connection to RS485 interfaces in control rooms or suitable compressors and dryers
- Fully automatic operation and monitoring

Easy installation & low maintenance

- flexible connectivity
- individual connection or in daisy-chain topology with only one cable for data and power supply

Easy service

- Transmission of important details helps the service to act quickly and efficiently

No loss of compressed air during derivation

- low operating costs

High reliability

- durable insensitive to dirt and robust
- no emulsion formation thanks to large valve cross-sections
- no failure-prone mechanical components

History

The BEKOMAT condensate drain has been built more than 5 million times so far. It was the first BEKO TECHNOLOGIES product to revolutionize the market, as it was the first to drain condensate without loss of compressed air. This replaced solutions on the market at the time such as float traps or time-controlled solenoid valves which, in the event of malfunction, allowed valuable compressed air to escape unused into the environment. Thanks to BEKOMAT, energy, costs and CO₂-emissions can now be saved worldwide. The new BEKOMAT i4.0 series opens up whole new additional opportunities for the future thanks to the advantages of digitalization, and process reliability can be increased even further as a result.



BEKO condensate technology
Picture source: Beko Technologies