**Customised solution for discharging and metering**

*EBRO cycle lock “TS” has many safety-relevant features*

Hagen, March 2023 – EBRO ARMATUREN has developed a customisable solution for discharging and metering powdery substances. The EBRO cycle lock “TS” is used whenever discharge from silos, weighing tanks, filtering systems or big bags and feed into downstream production processes such as vacuum reactors, sieving machines, mixers or packaging machines cannot be realised with standard valves.

The EBRO cycle lock “TS” is available with nominal diameters from DN 50 to DN 1200. Its chamber volume and the geometry of the filling pipe can be adapted to suit the customer's specific requirements. Assembly is easy. It is usually sufficient to connect the EBRO cycle lock to the tank or the piping. Capacitance sensors are available for the purpose of monitoring the filling level; in the case of relatively simple substances, oscillating rod limit switches can be used. Furthermore, the opening of the inlet and outlet valves can also be time-controlled. For actuation purposes, a higher-level PLC or, optionally, an EBRO control system can be used.

EBRO cycle locks “TS” are gas-tight and ATEX-certified. Thus, they constitute a safe solution for use as passive explosion venting systems with nominal diameters from DN 50 to DN 600 in installations with differential pressures of up to 10 bar. They can also be used as inerting tanks. Moreover, they are approved for contact with food and are pressure surge-resistant in compliance with EN 14460.

**Caption:** EBRO cycle locks “TS” are used to discharge powdery substances from silos, storage tanks or big bags and in many cases they are used to meter them. They are also used for feeding into downstream production processes and for inerting products during the transfer operation.

EBRO ARMATUREN

Since the company was founded in 1972, EBRO ARMATUREN has been developing, producing and selling shut-off and control valves as well as automation technology for industrial applications. More than 1,000 employees at two domestic and 30+ international subsidiaries ensure that EBRO products are available in over 100 countries worldwide.

Within the global network, production takes place at the headquarters in Germany and in Italy, Sweden, China and Thailand with uniformly high manufacturing and quality standards. In 2005, the Swedish manufacturer Stafsjö Valves AB was acquired and the product range was extended by an extensive portfolio of knife gate valves.

The owner-managed family business sees itself as a reliable, future- and value-oriented partner for its more than 35,000 customers worldwide: customer satisfaction, quality and safety are reflected in the range of more than 350,000 product variants, which are manufactured with high-precision technology and distributed with fast delivery performance for customers around the globe. For EBRO, it is a matter of course that, in addition to high-quality industrial valves, the corresponding drive and automation technology is also tailored as a complete unit precisely to the specific application and its requirements. This offers the customer further synergy effects in planning support, technical advice and documentation. EBRO has established itself in the global market with innovative solutions, especially for demanding applications and sectors such as the chemical and pharmaceutical industry, food and beverage industry and seawater desalination.