**The temperature is right - The Z 011-A EBRO THERM®/Z 014-A EBRO THERM®**

**The original for use in heating and cooling systems**

In addition to the main functions of shut-off and throttling, the "THERM®" version of the Z 011-A and Z 014-A butterfly valve series offers the possibility of medium temperature control without additional installations.

An integrated, optimally positioned thermometer measures the temperature directly at the disc around which the medium flows, thus preventing the formation of a mixed temperature between the medium and the valve body. The bimetallic spiral is guided in an immersion tube and transmits rising or falling temperatures directly via the axis to the pointer. This achieves measurement values of accuracy class 1.

This complete solution for heating and cooling water systems offers the user decisive advantages over measurement with separately installed thermometers. The installation is considerably simplified. There is no need to burn, weld or drill holes for the weld-in nozzles. There are no additional flow losses due to additional pipe installations. The insulation is not interrupted. The space for the indicator disc of a separate thermometer is eliminated, therefore the overall height is reduced.

The temperature range to be measured can be selected according to the application, for hot water 0°C to 120 °C and cold water (-20°C to +40°C). Two different thermometers are available for this purpose. The indicator disc is directionally adjustable, but does not move when the fitting is actuated.

The EBRO THERM® series includes wafer and flange-mounted butterfly valves for operating pressures up to 16 bar. The butterfly valves are available in nominal sizes DN 20 - DN 200. The overall length corresponds to EN 558 series 20. They are suitable for conventional flanges, but also flared flanges and weld-on flanges according to EN 1092 and fulfil the leak test according to EN 12266 leakage rate A.

Caption: The wafer butterfly valve type Z 011-A THERM® with integrated thermometer measures the temperature directly at the disc around which the medium flows.

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**EBRO ARMATUREN**

Since the company was founded in 1972, EBRO ARMATUREN has been developing, producing and selling shut-off, control and automation technology for industrial applications. More than 1,000 employees at three national 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 variety of more than 350,000 product variants, which are manufactured with high-precision technology and distributed with fast delivery performance for customers all over the world. 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 market worldwide with innovative solutions, especially for demanding applications and sectors such as the chemical and pharmaceutical industry, food and beverage industry and seawater desalination.