**The Right Valve for Every Application**

*EBRO - Industrial valves and Actuator Systems for Highest Demands*

Hagen, August 2020 - EBRO develops, produces and distributes industrial valves and automation technology. The product range includes series production and individual solutions for special applications. What all products have in common is that they are manufactured to exceptionally high quality standards. The result is a well-rounded, complete portfolio that meets all requirements in terms of energy efficiency and process engineering. With its selection of soft-sealing, PTFE and high-performance butterfly valves, EBRO covers almost every conceivable application.

**One for All – Soft Seated Valves**

The centrically mounted, soft-seated butterfly valves can be used almost universally due to their design and variety of materials. They are suitable as shut-off and control valves for liquid, powdery and gaseous media*.* They can be installed in any position. Their multiple shaft bearings and the maintenance-free design ensure a long service life.

EBRO offers the soft-seated butterfly valves in various wafer versions with nominal diameters from DN 20 to DN 1200 and a maximum operating pressure of 16 bar. Flanged versions are available in nominal diameters from DN 50 to DN 600 with a maximum operating pressure of 19.2 bar. EBRO double flanged butterfly valves are available up to 25 bar depending on the application. Long and reliable operation is guaranteed by the triple bearing and the proven stem sealing system. For applications in contact with foodstuffs, butterfly valve designs according to FDA and EC 1935/2004 are available.

**Resistant with Optimum Protection - PTFE Lined Valves**

EBRO offers PTFE-lined shut-off and control valves for use in chemically aggressive media, for example. Their at least three millimetre thick linings of virgin PTFE reduce permeability to a minimum. In addition to the double shaft seal, PTFE-lined butterfly valves have a split body and are maintenance-free. They can also be installed in any position. The PTFE lining can be dismantled and recycled according to type. EBRO PTFE butterfly valves are available as wafer and flanged valves in nominal diameters DN 40 to DN 300 and as double flanged valves in nominal diameters DN 350 to DN 900. Their maximum operating pressure is - depending on material and nominal diameter - 16 bar.

**For High Pressure and Heat - High Performance Valves**

High operating pressures and extreme temperatures - where other valves reach their limits when shutting off and controlling gaseous and liquid media, EBRO's high-performance butterfly valves are used. The double eccentric bearing of the valve disc, high-quality materials and excellent workmanship ensure the greatest possible safety even under extreme operating conditions and enable almost linear control behaviour.

High Performance butterfly valves are available with R-PTFE, Inconel or Fire-Safe seat ring systems. Soft-sealing R-PTFE systems are suitable for operating temperatures up to a maximum of 230 °C and metal-sealing systems up to a maximum of 600 °C. They are maintenance-free and guarantee a long service life even at high switching frequencies. EBRO's high-performance butterfly valves are available as wafer or flanged butterfly valves in nominal sizes DN 50 to DN 1200, as double flanged butterfly valves in DN 80 to DN 600 . They can be used in a temperature range from -60 to +600 °C and at operating pressures up to a maximum of 40 bar.

**For Dirt and Fibres - Knife Gate Valves**

Wherever bulk materials or dirty, fibrous or pasty media are used, such as in waste water technology, biogas plants, in the food or paper industry, knife gate valves are the first choice. The high-quality knife gate valves are manufactured to the highest quality standards by the EBRO subsidiary Stafsjö in Sweden. Furthermore, they are low-maintenance and bi-directional. Stafsjö knife gate valves are available in nominal diameters from DN 50 to DN 1600. Various high-alloy materials, pneumatic and electric actuators and the associated automation technology allow the valves to be adapted to a wide range of process conditions.

**Customer-Specific Solutions - Special Requirements**

Following the motto "Series production is our business - developing solutions for special applications is our passion", EBRO has been developing and manufacturing solutions for special applications for almost 50 years. They are always used where a standard valve cannot meet the requirements. Together with the customer, EBRO develops the right solution for almost every application and requirement.

A special solution is the cycle lock with nominal diameters from DN 50 to DN 600. It is often used for discharging and dosing dusty media from silos, storage tanks and big bags. It is also used for feeding into downstream production processes. The inerting of products during the sluicing process is possible. The chamber volume can be individually adapted and the geometry of the filling pipe can be adapted to the specific properties of the products to be sluiced. EBRO cycle locks are approved for ATEX 0/20 and as passive explosion decoupling devices up to dust class 3.

**Precise and Efficient - Actuator Technology from EBRO**

EBRO has been manufacturing its own actuators for more than 30 years. As a result, the butterfly valves and gate valves can always be equipped with an actuator that is optimally matched to them. This results in optimum energy efficiency, which reduces the current costs. EBRO offers pneumatic quarter-turn and linear actuators that provide high opening and closing torques and are available in spring to open or -close versions. They have a clearly visible position indicator and, due to their multiple piston guidance, very good sliding characteristics. The precise machining of cylinder tube and piston ensures high operational reliability and a long service life. In combination with electric actuators, EBRO's actuator technology is the perfect complement to the company's butterfly valves and knife gate valves.

**Communicative and Intelligent - Automation Technology**

The portfolio of the Valve Automation division comprises the entire range of products and solutions for the instrumentation, automation and optimization of industrial processes. Platforms such as the EBRO SBU-Advanced with integrated sensor technology offer full transparency of the operation and functions of valves and actuators at all times. The "EBRO Connect" app developed specifically for this purpose is responsible for condition monitoring. In addition to its function as a classic limit switch box, the SBU Advanced mainly serves to support digitization projects of plant manufacturers and operators. In addition to pneumatic control functions, a large number of customer-specific requirements can be realized via integrated electronic controls.

**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 in 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.