**Unbeatable quality for the most stringent requirements**

*EBRO valves supporting Turkey’s Oksut gold mine project*

Hagen, October 2021 – Extraordinary assignments call for extraordinary expertise: the Oksut gold mine project in Turkey, where ore is extracted and processed via heap leaching to produce gold, features a large number of EBRO valves. This is because this particular method puts the materials through numerous chemical processes, meaning that the products used have to be of the utmost quality. With its broad-based, high-quality portfolio, EBRO was able to supply bespoke/customized solutions that met even these stringent requirements. As part of the gold mine project, they are used in the heap leaching process, the transport of dangerous/hazardous goods (ADR) and the fire extinguishing systems.

**Process requires high-class workmanship**

Begun in 2017, the Oksut project is based in the district of Develi in Kayseri Province, 290 km south-east of the Turkish capital Ankara. The surface-mined ore is broken up before undergoing the heap leaching process, which involves layering the gold deposits on a liner or “heap”. A leaching solution – essentially, a dilute alkaline cyanide solution – is then poured over the surface of the deposits to leach out the gold inside. Cyanides such as prussic acid (HCN) and its alkali salts (e.g. KCN and NaCN) are highly toxic and dissolve easily in water. Any poisoning involving these substances should be avoided at all costs in industrial and commercial environments. The quality of the valves used, particularly in terms of their durability and safety, is therefore particularly important in this highly aggressive environment. As all EBRO products are manufactured to exceptionally high quality standards, they are used for the heap leaching process itself as well as for the transport of dangerous/hazardous goods (ADR) and the fire extinguishing systems. “We have no doubts whatsoever about the quality of EBRO’s valves~~,” says xy~~. ~~“~~Tough environments, such as in the gold mine in Turkey, are the perfect place for them to demonstrate their high-quality workmanship”, emphasises Mr Oner Erdeve, Manager of Maintenance & Construction at OKSUT.

**Ensuring maximum safety and durability**

T 200-series PTFE-~~clad~~lined butterfly valves and HP114 High Performance Valves have been fitted inside the gold mine. The T 200 valves are designed for use in chemically aggressive acids and alkalis, while the High Performance Valves can handle high pressures and temperatures, ensuring maximum safety in extreme operating conditions. EBRO’s contribution does not end there, however, as Z 011-A-series soft-sealing valves can also be found in the mine. Their design and the sheer/great variety of materials they can be made from mean that these valves can be used virtually anywhere.

**Resistant to aggressive media**

EBRO was also tasked with supplying stainless steel ball valves, which are resistant to corrosion and a wide range of aggressive media. In addition, the client opted for EBRO products for its check valves on account of their minimal pressure losses and low opening pressure.

**Data on the Oksut gold mine project**

**Valves:**

PTFE valves: T 211-A DN 50-300, worm gear and pneumatic actuation

High-(Bindestrich entfernen) Performance Valves: HP 114 DN 100-400, worm gear and electric actuation

Resilient seated~~ling~~ valves: Z 011-A DN 80-400, manual and electric actuation

Ball valves: DN 50-100, manual and pneumatic actuation

Check valves: DN 50-400

**Pictures**

**Oksut\_Goldmine2.jpg:** Open-pit gold is mined close to the surface. The Oksut gold mine covers an area of 1.2 ha. The production method used there is heap leaching.

**T211-A\_EB-SYD\_SBU\_open\_W:** The PTFE-lined wafer type butterfly valve is suitable for chemically toxic and highly corrosive media.

**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.