

KLINGER Fluid Control

Reference Case

KLINGER Ballostar replaces butterfly valves

Operator: Vattenfall Wärme Berlin AG
Location: Berlin / Germany
Plant capacity: 4.000 MW

Operating Conditions

Operating Temperature: 80-135°C
Operating Pressure: 25 bar
Media: Hot water

KLINGER Product: Ballostar
Size: DN150 to DN1000
Material: Carbon steel
Sealing: KFC-25



Description

The power plant called "Reuter" operated by Vattenfall Berlin is the biggest Power-to-Heat plant in Europe. In 2016 Vattenfall realized another plant extension to add 240 MW of capacity for district heating worth 100 million Euro. The project scope consists of investments in the electrical- and hydraulical infrastructure as well as gas fired heat sources to cover peak loads and therefore ensure highest level of supply security.

Vattenfall intended to use two existing DN1400 pipe lines to include them into the new plant section. Originally they considered to use butterfly valves of the same size for that line. The joint efforts of Vattenfall, the engineering company and KLINGER Fluid Control has proven that it is technically better to install a DN1000 ballvalve with extension cones (DN1000 to DN1400). The reason: A KLINGER DN1000 Ballostar has a significantly higher KV value than a butterfly valve DN1400. This fact prevent Vattenfall from hydraulical problems in the future and saves costs during operation.

Besides time and cost savings, the Double Block & Bleed function was the key convincing factor for the choice of the KLINGER Ballostar.

In total, Vattenfall installed several KLINGER Ballostar valves ranging between DN150 and DN1000 during the project realisation between 2016 and 2018.

Contact person for further information

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