

KLINGER Fluid Control

Reference Case

Klinger Ballostar DN 1000 in HKW Reuter West Vattenfall Berlin

Operator: Vattenfall Wärme Berlin AG
Location: Germany
Plant Capacity: 2.500 MW-4.000 MW
Connected housing units: 1,3 Mio

Operating Conditions

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

KLINGER Product: Ballostar KHSVI
Size: DN1000
Material: Carbon Steel
Sealing: KFC-25

Description

At the HKW Reuter West Vattenfall Berlin is built the largest so called Power-to-Heat-System in Europe. The investment of Vattenfall is almost 100 million euros. Beside the historical cogeneration plant, two huge instantaneous water heaters are built up. These system generate nearly 240 megawatt of heat (equally divided between gas and electricity). This capacity is enough to provide 720.000 households in summer and 72.000 households in winter. Investments in hydraulic and electric infrastructure, as well in two gas-fired hot water generators (to cover the consumption peaks in the district heating system) belonging to the project volume.

2 KLINGER Ballostar DN1000 with cones are installed in a DN1400 pipe due the fact, that these ball valves have a higher kv-value than a DN1400 butterfly valve (this was even calculated by Vattenfall).

Beside the advantage of the maintenance free ball valves, the double block with bleeding function was a key criterion.



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