

# KLINGER Fluid Control

## Reference Case

### Klinger Ballostar KHI for heat exchanger in Geothermal plant

Operator: Grünwald  
Location: Germany

#### Operating Conditions:

Operating Temperature: 127°C  
Operating Pressure: PN25  
Media: Geothermal water

KLINGER Product: KHI flanged  
Size: DN200  
Material: Carbon Steel  
Sealing: Metal



#### Description:

The task definition of this application is to install a ball valve in a supply pipeline of geothermal water to the heat exchanger. The heat exchanger is the weakest location in a geothermal power plant because if there are solids based on cristallization in the water it can plug the heat exchanger totally. If this is happening, the heat exchanger must be cleaned with phosphoric acid. The installed Klinger Ballostar KHI ball valve combine two advantages in one step. The valve prevent cristallization due to the construction ( full bore - no turbolences) and the additional installed flushing connections on the valve body allows the possibility to clean the valve seats also with phosphoric acid. As a result, no solids occur in the pipeline to the heat exchanger and therefore no plugging which increase the life time of the heat exchanger significantly. At the end Klinger KFC helped the end user to reduce downtimes and therefore money for cleaning the heat exchanger.

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