GF Piping Systems

NeoFlow pressure regulating valve

Reliably connecting water networks

For an optimal pressure management between two water networks, the municipal utility of Bingen relies on the NeoFlow pressure regulating valve by GF Piping Systems.

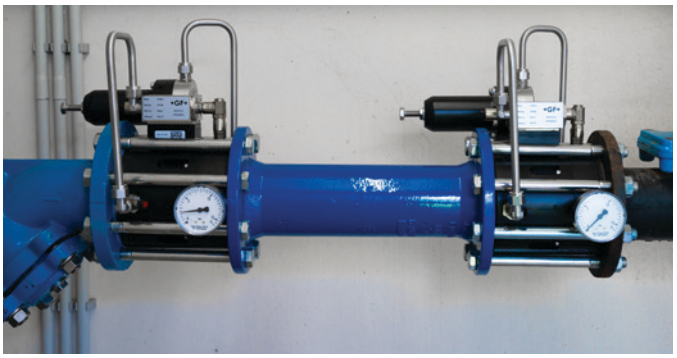
NeoFlow secures the water supply for 30.000 people

Stadtwerke Bingen am Rhein

To secure its water supply, the city of Bingen in Rhineland-Palatinate obtains additional water from the nearby city of Ingelheim. However, the connection between the two water networks experiences different and sometimes strongly fluctuating pressures. Therefore, the municipal utility of Bingen decides to install NeoFlow.

Project background

The potable water from Ingelheim arrives with a pressure of 5 bar. Before it can be introduced into Bingen's network and be supplied to the 30.000 inhabitants, the pressure needs to be reduced to 0,7 bar. Additionally, the flow can fluctuate between 25 and 70 cubic meters per hour. As a result, the municipal utility searches for a long-lasting and maintenance-free solution that can guarantee a consistent pressure.



Two NeoFlow pressure regulating valves secure the water supply for the city of Bingen.

Selected technical solution

The municipal utility of Bingen decides to install two NeoFlow pressure regulating valves in tandem at the transfer point between Bingen and Ingelheim. NeoFlow is a plastic valve that does not require an actuator stem or diaphragm and is designed with an axial flow. Combined with corrosion-free materials, this leads to a long service life and significantly reduced maintenance requirements compared to traditional metal valves. NeoFlow also features an integrated pilot valve that can intelligently monitor and control parameters such as flow and water quality when combined with additional equipment.

Due to its simple construction without an actuator stem and diaphragm, NeoFlow has a long service life and requires little maintenance.

Achieved improvement

The low weight of the two NeoFlow valves with a dimension of DN80 simplifies the installation, while their compact installation length leaves enough space for additional measurement technology. Without the need for a diaphragm, NeoFlow reduces maintenance requirements and downtime despite the heavy loads at the transfer point and ensures a reliable water supply for the region. The municipal utility also benefits from the partnership with GF Piping Systems, as the planning phase is simplified, and the solutions are tailored to the needs of the application. "This is how an ideal collaboration should work, and we hope to continue on this path", explains Thomas Schöller, Waterworks Supervisor at the municipal utility of Bingen.

Customer benefits

- **Thanks to NeoFlow, water networks with variable pressures can be safely and reliably connected**
- **The NeoFlow pressure regulating valve is made of plastic and therefore features a lightweight and very compact construction**
- **The low complexity and axial flow combine a long service life with high efficiency**

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