

Pressure regulating valve NeoFlow

Stable pressure for drinking water utility

Water utility company:
Ostalbwasserversorgung, Germany

Stable pressure management
in topographical challenges.

Modern polymer pressure regulating valve for the Amstetten district



The Ostalb Water Utility Association with its headquarters in Gerstetten is a regional water supply utility in Baden-Württemberg, Germany. For almost 50 years, it has been supplying 18 member communities and cities in the Swabian Alb region with two million cubic meters of drinking water annually. The high quality of this essential nutrient, whose quality is continually tested, is valued. Among other things, structural measures have contributed towards this.

Project background

The region covered by the Association stretches from the water supply area in the upper Fils Valley and Eyb Valley in the high lying Alb communities to the Lone Valley and back over 500 km². The topographical heights of the Swabian Alb are a real challenge: the supply area is between 400 and 700 m above sea level. As a result, the use of booster stations for high zones and pressure reduction valves for low-lying regions is indispensable for guaranteeing stable pressure management in the public utility network.

Technical solution

The old metal valve was worn out in the water tower of Amstetten village, via which the small Amstetten district Reutti was supplied with drinking water. "The valve was enormously heavy and very bulky," recalled Rainer Gräs, technical operations director at Wasserversorgung Ostalb, when talking about the maintenance processes as well as the final dismantling of the product. During the search for the successor model, a DN50 NeoFlow pressure reducing valve from GF Piping Systems was chosen. "The polymer model weighs much less than the previous metal valve and consists of just three main components: housing, piston, valve core and a moving part. Compared to conventional pressure regulating valves, the structural length is much shorter, which greatly simplifies the assembly process," summed up Wolfgang Kustermann, Technical Sales Utility at GF Piping Systems.

Improvements achieved.

The inlet pipe supplies the drinking water with an upstream pressure of 9 bar. The pressure regulating valve reduces this to an downstream pressure of 5.5 bar before feeding into the local network. The consumption and supply pressure in the village is controlled by electronic remote monitoring. "Outlet pressure and flow data can be permanently monitored or retrieved," explained Gräs and added, "The pressure regulating valve reacts extremely precisely to pressure fluctuations and keeps the outlet pressure constant."

The NeoFlow valve allows the water utility company to implement pressure management efficiently in its network: The axially designed construction, which is in line with the flow direction, permits full functionality of the valve from 0 to 100% opening, and ensures extreme precision and stability. It therefore protects the supply network against overpressure and reduces the mechanical load of the components. Moreover, the polymer pressure regulating valve offers a long, stable and corrosion-free service life with low maintenance requirements.



Faster and easier installation thanks to the light NeoFlow polymer pressure regulating valve and wafer-type arrangement.



The lightweight polymer solution offers a longer operating service life with minimum maintenance effort.

Customer advantages

- Compact design with low weight - easy assembly
- Very precise and stable flow
- Low maintenance requirements thanks to very simple design
- The integrated pilot valve ensures optimized pressure regulation and, with additional, optionally integrable equipment, monitoring of flow and water quality.

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