GF Piping Systems

NeoFlow pressure regulating valve

Improved pressure management for Slovakia's largest water utility

Largest water utility in Slovakia has installed NeoFlow, the pressure regulating valve (PRV) by GF Piping Systems to reduce the water pressure in critical points throughout a village.

NeoFlow proves itself as a quick and simple to install solution for water pressure issues

VVS a.s. (Východoslovenská vodárenská spoločnost) is a water utility based in the Slovakian city of Košice. It produces and distributes potable water and operates sewers as well as water treatment installations throughout the country. With a total of nine plants and 2,000 employees, VVS is the largest water utility in Slovakia and provides many people with water. In order to solve a pressure issue in part of its network, the company selected NeoFlow by GF Piping Systems.

Project background

Water loss and non-revenue water are a challenge in water networks all around the world. However, consistent pressure management has proven itself to be an effective solution. When the village of Zemplínske Hámre experienced issues in its network, VVS decided to install a PRV to reduce the pressure of 6 bar coming from the supply plant to a more manageable pressure of 2 bar in the most important points throughout the village. GF Piping Systems was able to offer a PRV that met the specific requirements of the project.

Selected technical solution

The specifications of NeoFlow made it ideal for the water network of Zemplínske Hámre as it features a polymer body which is up to nine times lighter and five times more compact than traditional metal valves. In addition, it features an axial flow design which ensures a stable flow from 1% to 100% opening, even at a small operating differential. This also significantly reduces the complexity of the valve as it does not require an actuator stem or diaphragm. Another important consideration for the project were NeoFlow's corrosion-free materials which increase longevity and reduce maintenance requirements. Looking towards the future, NeoFlow's integrated pilot valve gives VVS the option to install additional equipment to monitor flow and water quality.

Achieved improvement

The new DN80 NeoFlow PRV was successfully installed and commissioned in less than two hours. Thanks to its low weight and short installation length, NeoFlow was easy to handle and could be put into operation without any issues – despite the tight spaces at the installation site. Since the project was completed, the water network has been running according to the configured parameters and has reliably managed the water pressure throughout Zemplínske Hámre. In addition, VVS benefits from NeoFlow's long service life, which reduces both maintenance requirements and costs.

Thanks to NeoFlow's short installation length and low weight, the project was completed quickly and without issues.

NeoFlow features a simplified axial flow design which ensures a precise flow and reduces maintenance requirements.

Customer Benefits

- **NeoFlow's axial construction offers an effective pressure management for a wide range of operating conditions and applications.**
- **Low weight and compact dimensions make NeoFlow ideal for tight spaces and difficult to reach installation sites.**
- **Corrosion-free materials ensure a long service life as well as low maintenance requirements.**

Co-developed with OFUI

Where next?

Just get in touch with us

GFDO_RF_00049_EN (10.23)