

NeoFlow PRV

Ensuring a reliable water flow in Pecquencourt, France



Noréade uses NeoFlow to optimize pressure management in its water network.



NeoFlow improves firefighting capabilities with precise pressure management



Pecquencourt is a commune in the Nord department in the Hauts-de-France region in north-central France with around 6000 inhabitants. After facing issues with a pressure regulating valve (PRV), the decision was made to upgrade the water network with a modern valve that could meet the challenges of the local water supply. Here, GF Piping Systems supplied its NeoFlow pressure regulating valve with a polymer body and an axial flow construction.

Project background

In the past, the water network used a cast iron pressure regulating valve. However, these types of PRV face issues like corrosion or technical complexity and therefore require regular maintenance. While searching for a replacement for the ageing valve, Noreade, an organization specializing in water supply and wastewater treatment, decided to implement NeoFlow by GF Piping Systems. The installation had three main goals: To implement a long-lasting alternative to the cast iron valve, to overcome the high pressure differences and to achieve the required fire flow.

Selected technical solution

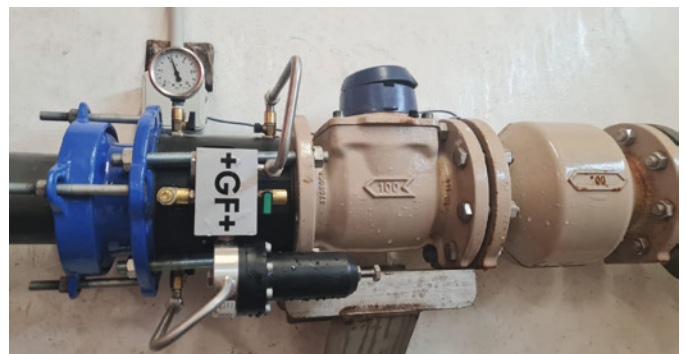
NeoFlow features an axial flow construction which ensures a stable flow from 1% to 100% opening, even at a small operating differential. This also significantly reduces the complexity of the valve as it does not require an actuator stem or diaphragm. Combined with its polymer body this makes NeoFlow up to nine times lighter and five times more compact than traditional metal valves which also speeds up the installation time. Corrosion-free materials increase longevity and reduce maintenance requirements, while an integrated pilot valve allows flow and water quality to be monitored with additional equipment.

Achieved improvement

The installation of the NeoFlow PRV was completed in two hours, including the challenging dismantling of the cast iron valve. The predetermined settings worked well and only had to be adjusted slightly. Finally, Noreade performed a fire flow test by opening two hydrants. NeoFlow was able to support the maximum capacity of the pumping station at 165m³/h with a pressure drop of 0.5 bar that is to be expected at 100% opening. In addition to the technical advantages of NeoFlow, Noreade also benefitted from project support by GF Piping Systems.



With technical support by GF Piping Systems, the ageing cast iron PRV was successfully replaced with NeoFlow



Thanks to its axial flow construction, NeoFlow is also capable of ensuring the required fire flow in Pecquencourt.

Customer benefits

- NeoFlow's axial construction offers an effective pressure management in a wide range of operating conditions
- Reduced complexity and corrosion-free materials minimize maintenance requirements
- By offering full project support, GF Piping Systems ensures an easy and safe installation

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