

NeoFlow PRV

Upgraded pressure management in Saint-Donan, France

Saint-Brieuc Armor Agglomération relies on NeoFlow, the pressure regulating valve by GF Piping Systems, to reliably manage the municipal water supply.



NeoFlow serves as an effective and easy-to-install replacement for an ageing pressure regulating valve

Saint-Brieuc Armor Agglomération is an association of local municipalities in the Brittany region of France. After facing issues with a pressure regulating valve (PRV) in the commune of Saint-Donan, the decision was made to upgrade the network with a thermoplastic alternative. Here, GF Piping Systems supplied its NeoFlow pressure regulating valve with a polymer body.

Project background

The previous pressure regulating valve made of cast iron was causing issues in Saint-Donan. On the one hand, the network was experiencing problems with turbidity, while there were high pressure differences that were challenging to manage. On the search for a solution, Saint-Brieuc Armor Agglomération decided to try a new material and implement NeoFlow as well as the MULTI/JOINT system designed to connect different piping materials.

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. As a result, it is 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. MULTI/JOINT, on the other hand, is designed to quickly connect pipes with a restraint pull-out resistance system. It is suitable for a wide range of materials and outside diameters.

Achieved improvement

Using DN50 MULTI/JOINT adapters, NeoFlow was retrofitted within two hours, while the biggest challenge was dismantling the old cast iron valve. After also installing a strainer, the network was operational again the same day. In addition to low maintenance requirements, NeoFlow now offers Saint-Donan a smooth pressure management that preserves the network. During the project, Saint-Brieuc Armor Agglomération benefitted from the support of GF Piping Systems experts who were able to offer a complete solution with NeoFlow and MULTI/JOINT.

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Co-developed with OFUI



Thanks to its low weight and compact dimensions, NeoFlow can be installed quickly and easily.



Thanks to its axial flow construction, NeoFlow ensures a stable flow from 1% to 100% opening, even at a small operating differential.

Customer benefits

- NeoFlow's axial flow construction offers an effective pressure management in a wide range of operating conditions
- Reduced complexity and corrosion-free materials minimize maintenance requirements
- The combination of NeoFlow and MULTI/JOINT ensures maximum compatibility and reliability

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