

NeoFlow pressure regulating valve

Networks without compromises

Water distribution company: IRETI

A reliable and innovative solution
to combat non-revenue water.

State-of-the-art technology for pressure management



IRETI supplies water to over 2.5 million customers in almost 300 municipalities in Northwest Italy, with a network of roughly 20'000 kilometers. The water loss in Italy is an average 37%. Also IRETI faces the challenge of non-revenue water and with it the associated maintenance and asset lifetime. The innovative NeoFlow pressure regulating valve (PRV) by GF Piping Systems is providing the solution.

Project background

As part of the commitment to continuously improving the performance of their water networks, IRETI is constantly on the lookout for reliable products that will help preserve precious water resources. Having tried a wide variety of pressure regulating valves, IRETI was attracted by NeoFlow PRV's simplicity and innovative design. Joint testing at a certified laboratory provided confirmation of the product's versatile capabilities like a more accurate and very stable flow (down to zero), even at small operating differential.

Selected technical solution

The NeoFlow PRV has a simple axial flow design and a light-weight, corrosion-free polymer body. These features make it significantly easier and cost efficient to install and maintain than existing solutions on the market. NeoFlow enables precise pressure control, protects networks against excess pressure and reduces mechanical stress on components. In addition, the space savings achieved with the compact design of the NeoFlow PRV can be utilised to install measuring instruments (e.g. flowmeters) without modifying existing pipework.

Achieved improvement

The effective use of pressure management has reduced the rate of pipe bursts in IRETI's networks by over 60%, simultaneously reducing water leakages (a key strategic goal for the company). This increases the lifetime of the piping system while reducing maintenance requirements, disruption and leading to cost savings. Furthermore, this has enabled the water utility to increase its active leak detection program using available resources. Pressure regulating systems reduced the requirement for pumped water resulting in energy savings of 30 e.t.p. (equivalent tons of petrol). The enhanced pressure stability delivered by NeoFlow guarantees a consistent and reliable water distribution with the added benefits of reduced mechanical stress due to pressure variation.



Marco Alberti (right) and client with DN50 NeoFlow pressure regulating valves.



Installation of a DN100 NeoFlow pressure regulating valve.

Customer benefits

- Simple, low-maintenance design
- Up to 40% faster to install
- Excellent performance characteristics
- Decrease of pipe bursts and reduction of non-revenue water
- Savings in cost, energy and resources

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