GF Piping Systems

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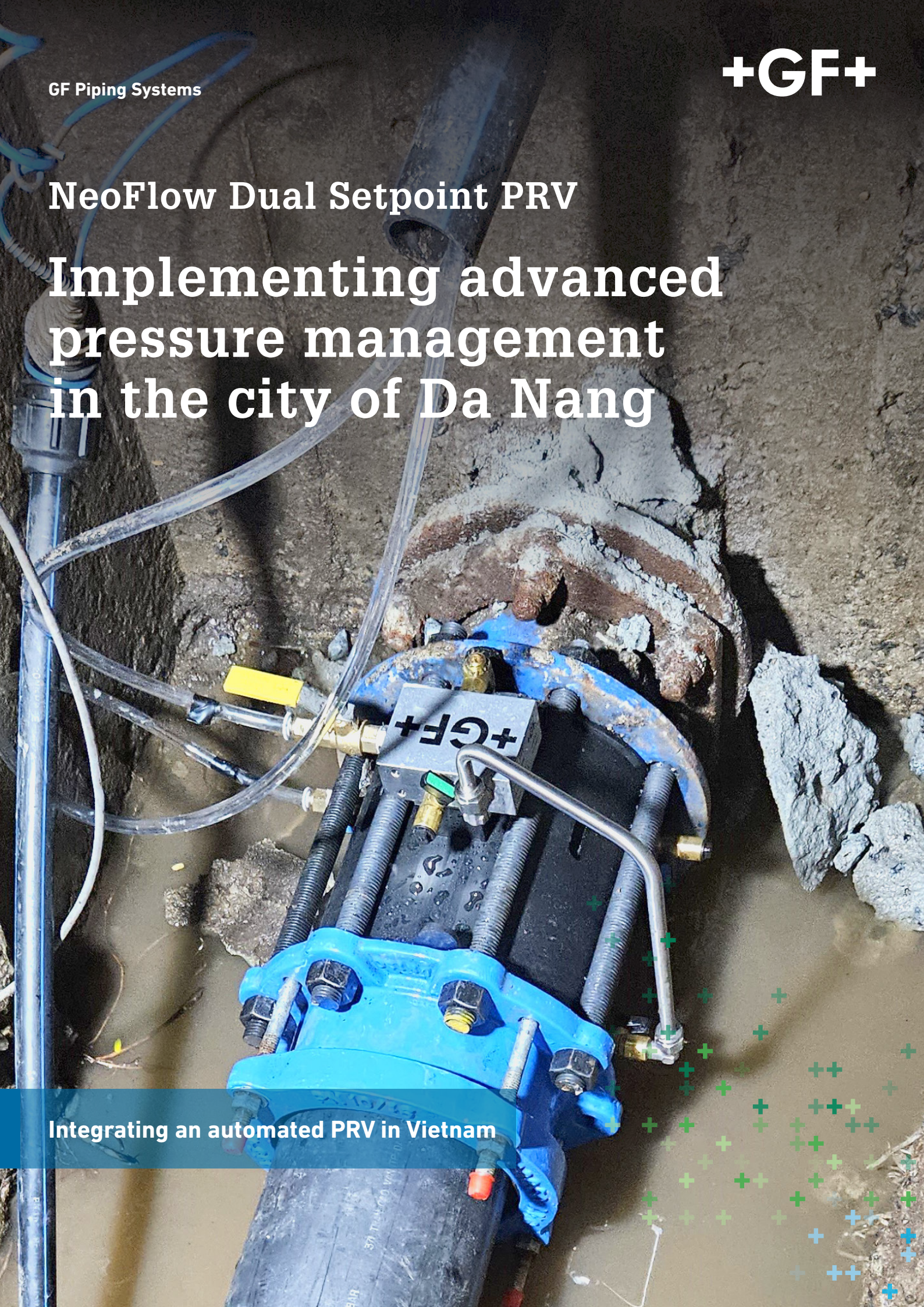
NeoFlow Dual Setpoint PRV

Implementing advanced pressure management in the city of Da Nang



Integrating an automated PRV in Vietnam

Increasing the water network performance with time based pressure management

Da Nang is a sprawling city that is home to almost one million inhabitants. It is in the district of Cam Le where DAWACO has decided to upgrade their water distribution network by replacing their existing metal valve. Within this project, DAWACO expected a valve that is able to regulate two pressure setpoints with minimal headloss pressure and found the ideal solution in the NeoFlow Dual Setpoint Pressure Reducing Valve.

Project background

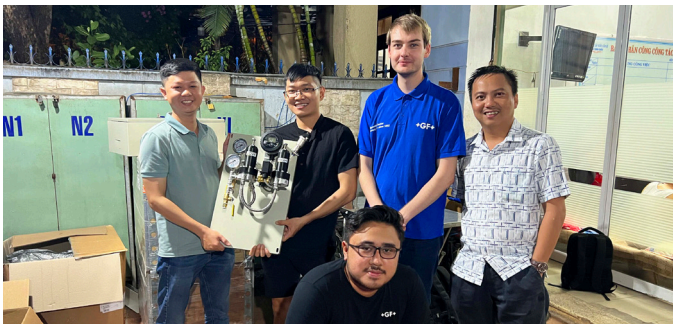
DAWACO is a joint stock company responsible for the operation and management of the water supply for the city of Da Nang, Vietnam. The companies' ultimate goal is to minimize their operational efforts and optimize their water network performance. In order to achieve this goal, the end customer is very keen to explore new and innovative technologies.

Selected technical solution

In order to enable DAWACO to achieve their goals, GF Piping Systems provided the NeoFlow Dual Setpoint PRV to solve their water loss challenges. The innovative valve is able to switch between two pressure setpoints according to a schedule predefined by the network operator. The NeoFlow Dual Setpoint PRV uses a timer, a solenoid valve, and the two pilot valves to switch between a high and a low setpoint, thus enabling day and night pressure management. Furthermore, NeoFlow's light weight and compact design made the installation process of the valve at the customer's DMA (District Metered Area) in Cam Le, Da Nang quick and easy. For this installation, DAWACO requested a separate installation of the pilot system away from the main valve into an above ground panel. This greatly effects convenience and safety when setting up the pressure setpoints and time profiles and further supports DAWACO's efforts to improve the wellbeing of their employees.

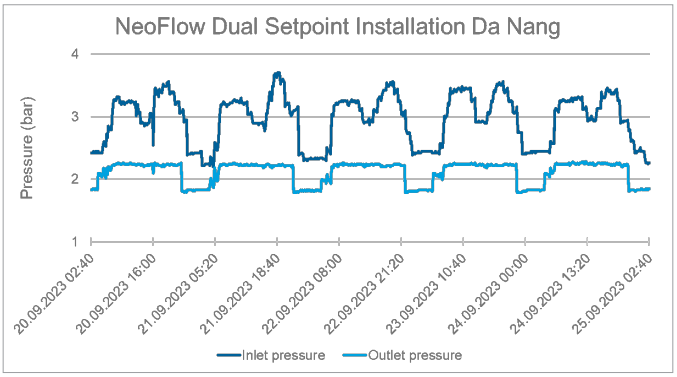
Improvements achieved

The customer happily remarked that the job involved less personnel during installation and reduced overall installation time to a third when compared to an installation of a regular metal PRV. This directly reduced water disruption time and allowed them to establish water flow to their customers much faster, providing them peace of mind. In terms of pressure regulation, the customer was truly satisfied with the performance of the NeoFlow Dual Setpoint PRV which provided excellent results. Under varying incoming pressure conditions, the customer is able to obtain a very stable downstream pressure during the day and night at the pre-set condition of 2.2 bar for the high pressure, and 1.8 for the low pressure set point. The result is a stable pressure at the customers critical point which ensures a stable water supply with an increase in network lifetime.



Team from GF Piping Systems Vietnam, Switzerland, and Indonesia, together with Vucico Corp.

The pilot system was installed in a panel box above ground



Pressure graph of the NeoFlow DN150 Dual Setpoint Valve at Cam Le, Da Nang

Customer benefits

- **Reduced installation cost, time, and maintenance**
- **Simplified valve configuration**
- **Time based, automated control of downstream pressure with two pressure set points, reducing the need for actuated pilot valves and pressure controllers**

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