Successful Deployment of DN300 IP-X Valve with Intelligent Valve Controller in Harsh Middle Eastern Environment

In January 2022, an Oxford Flow DN300 IP-X valve, was installed in a challenging environment in the Middle East. Equipped with an Intelligent Valve controller, providing 24/7 near real-time data and full remote operational control, the valve was deployed to assess its performance under extreme conditions and evaluate the effectiveness of the control unit.

RESILIENCE & INTELLIGENT PERFORMANCE

Despite facing harsh environmental challenges typical of the Middle Eastern region, including ambient temperatures regularly exceeding 45 degrees Celsius and humidity levels surpassing 95%, the IP-X valve showcased exceptional resilience. Moreover, the presence of debris, such as sand particles in the water system, adds complexity to maintenance requirements.

Throughout the project, there were no reactive maintenance issues or requirements, indicating the robustness of the IP-X valve and the effectiveness of the Intelligent Valve controller in ensuring smooth operations.

PROJECT SUCCESS

The results of the project were declared a resounding success. The IP-X valve had not only endured the harsh conditions but had also delivered consistent performance With over two years in service and no maintenance required, the IP-X valve's performance exceeded expectations, demonstrating its suitability for demanding operational environments.

KEY ACHIEVEMENTS

1. **Reliability**
   The IP-X valve exhibited unparalleled reliability, operating seamlessly for over two years without maintenance, despite the extreme environmental conditions.
2. **Performance**
   The IP-X valve consistently delivered optimal performance, meeting the operational requirements of the customer without any disruptions.
3. **Ease of Maintenance**
   The proactive maintenance carried out on the valve was remarkably simple and could be performed while the valve remained in service. This feature not only minimised downtime but also impressed the customer with its ease of operation.

CONCLUSION

The successful deployment of the DN300 IP-X valve with the Intelligent Valve controller in the Middle East proved its robustness and reliability in challenging operational environments. With proactive maintenance measures in place and seamless integration into the customer's asset register, the IP-X valve is poised to deliver long-term value and ensure the efficient functioning of the water system. This case study highlights the importance of innovative solutions in overcoming environmental challenges and underscores the effectiveness of the IP-X valve in demanding applications.

Robustness and reliability
in challenging operational environments

Zero Maintenance
Over 2 years