

KEY FEATURES



Electronic Intelligent Pilot



Dual solenoid control



Robust IP68 design



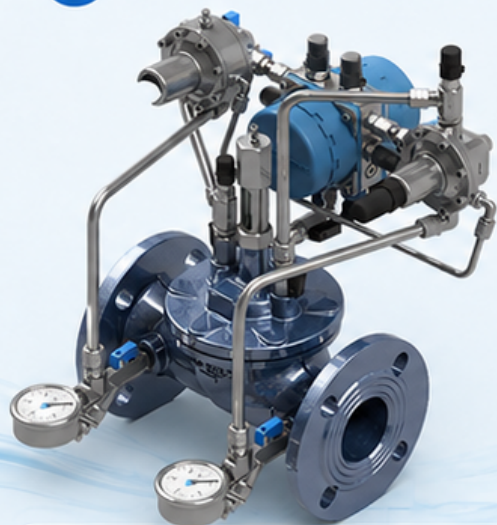
Low power consumption



SCADA / telemetry ready



Automatic control valve integration



Operating Voltage: 10–30 VDC



Enclosure: SS316, ABS



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WHY HYDROGENIE?

HydroGenie is an electronic intelligent pilot for automatic control valves and DMA water networks. It continuously measures, analyses and responds in real time to maintain ideal pressure, reducing leakage, preventing bursts and saving energy.



Measure



Analyse



Control



Optimise

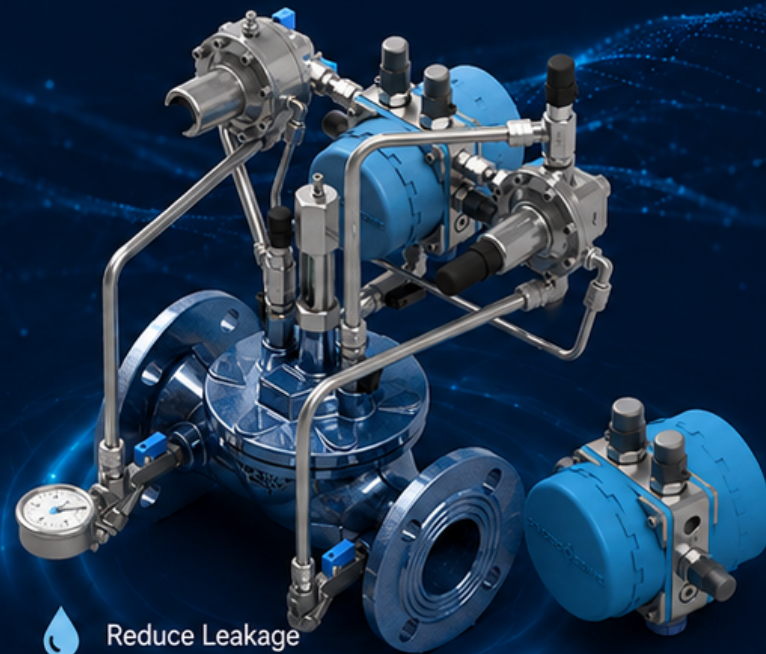
Smarter control.
Stronger networks.
Sustainable communities.



HYDROGENIE

Smart Pressure Optimisation for Water Networks

Control pressure. Reduce losses. Save energy.



Reduce Leakage



Prevent Bursts



Save Energy



Stable Pressure

INTELLIGENT CONTROL

REAL RESULTS



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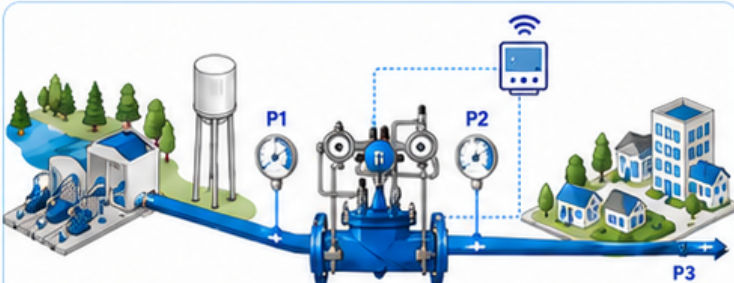
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Smarter Network Control

HydroGenie combines real-time pressure and flow intelligence with automatic control valve operation to optimise District Metered Areas (DMA). It continuously monitors the network, responds to changing conditions, and keeps pressure where it's needed—reducing leakage and protecting assets while saving energy.



Higher pressure allowed in the transmission main

Higher pressure improves operational stability and ensures adequate supply to downstream areas.

Pressure is reduced and controlled at the boundary

The HydroGenie intelligent control valve automatically reduces and stabilises downstream pressure to the required set point, protecting the network and minimising losses.

Only the minimum pressure needed at the point of use

Lower, stable pressure reduces leakage, bursts, and energy use while ensuring reliable service to customers.



Smart pressure management. Less leakage. Lower energy. Stronger networks.

The HydroGenie solution delivers measurable non-revenue water reduction and long-term operational savings.

What it monitors



Pressure



Demand pattern



Flow



Network response

How HydroGenie Functions



1 Measure

Receives real-time pressure and flow signals from the network.



2 Analyse

Analyses demand changes and network conditions.



3 Control

Determines the optimal valve position.



4 Act

Sends precise commands to adjust the valve in real time.



5 Optimise

Stabilises downstream pressure and improves network performance.

HydroGenie continuously senses, thinks and acts—adjusting the control valve to keep pressure stable, minimise leakage and protect the network.

Core Functions



Dynamic pressure management



Leakage reduction



Burst risk minimisation



Remote monitoring and control

Valve + Pilot + Network = Real Results



Maintain target pressure

Keep pressure at the optimum level for reliable service.



Reduce background leakage

Lower pressure means less leakage across the network.



Prevent bursts and pressure surges

Protect infrastructure and extend asset life.



Lower pumping energy

Reduce energy consumption and operational costs.



Improve service stability

Deliver consistent, high-quality water supply.



From field data to intelligent control

Designed for smarter water networks and sustainable communities.



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10–30 VDC
Low power operation



Modbus /
telemetry ready



Robust
IP68 design



SS316 / ABS
enclosure
Corrosion resistant



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