

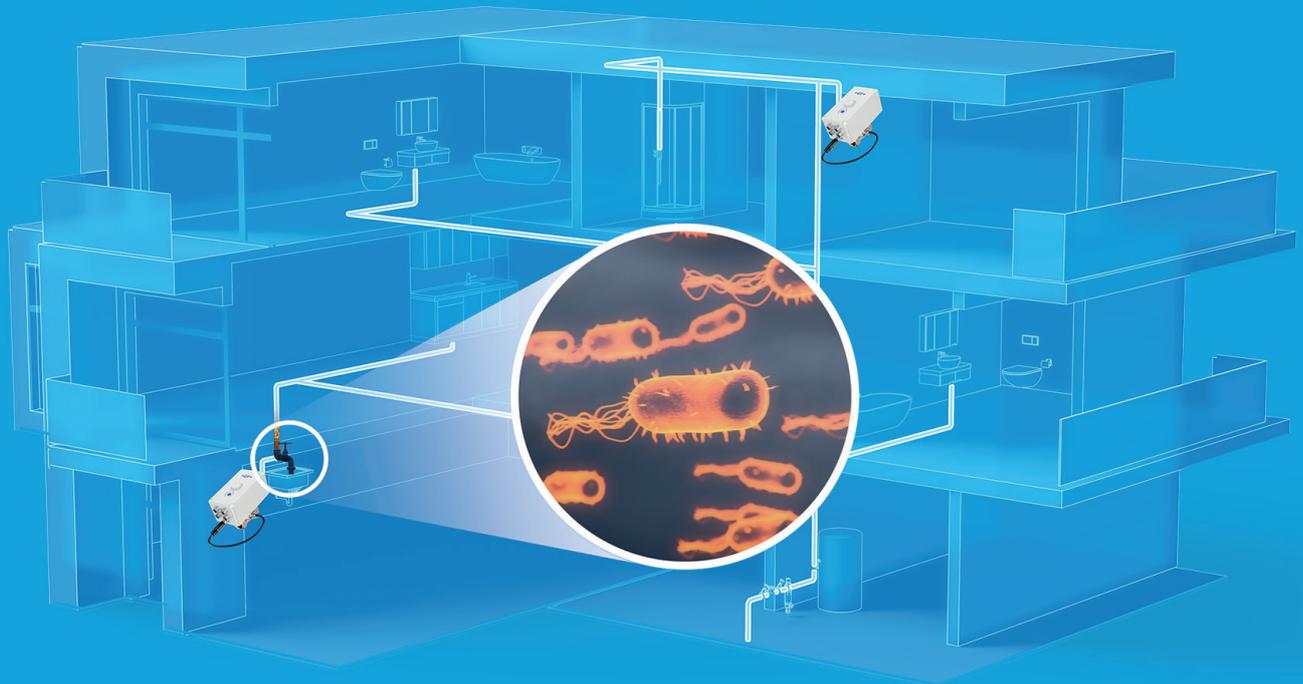
+GF+

Hyclean Flush

Automatic flushing for safe drinking water systems



Excellence
in **Flow⁺**



Hycleen Flush

Automated & recorded water exchange

Hycleen Flush automates stagnation flushing safely and precisely, thereby playing a key role in keeping drinking water hygienically safe in cold and hot water systems.

The valve ensures efficient compliance with modern hygiene standards by activating flushing cycles according to predefined parameters and recording them automatically. As a cost-effective and less

invasive alternative to flushing stations, Hycleen Flush minimizes installation effort and interventions in existing systems. This demonstrably supports compliance with operator obligations and reliably prevents stagnation. The result: improved system performance in terms of safety, technology, and hygiene.

Greater safety, less effort

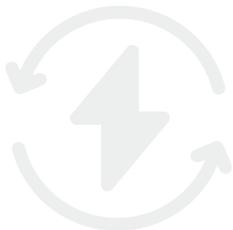
Hycleen Flush ensures reliable drinking water hygiene through automated flushing. Its flexible applications, simple retrofitting, and quick commissioning significantly reduce hygiene risks,

regulatory obligations, and operational workload, while automatic recording verifies safe system operation.



Hygiene & compliance

Hycleen Flush helps maintain drinking water quality through automated flushing and effectively prevents the proliferation of Legionella bacteria. Its integrated recording function fulfills compliance requirements and reduces liability risks.



Flexibility & retrofits

The system is suitable for both new builds and renovations and is easy to retrofit. It operates with or without a flow sensor and can optionally be equipped with run-off monitoring. Additional sensors can be connected via the 4-20 mA input to allow demand-driven and safe flushing.



Sustainable use of resources

Alongside maintaining drinking water quality, the system ensures optimized water usage through customizable flushing. There are multiple settings available based on critical criteria such as temperature, timing, or external sensor data.



Shut-off function

Besides its flushing function, Hycleen Flush allows time-based or manual shut-off. This opens up a wide range of new applications, including selective control via app, remote triggering, frost and leakage protection, and irrigation management.

Features – engineered down to the smallest detail

Simple planning, minimal effort

The valve is set apart by its easy commissioning and minimal complexity. Digital data such as planned CAD integration accelerates processes, while connection to building management systems ensures flexible implementation in large-scale projects.

Quick start guaranteed

The commissioning wizard enables setup in less than five minutes. Flexible wiring with pre-assembled cables simplifies installation and saves valuable time.

Automated flushing

Time-controlled:

Flushing is triggered automatically at fixed intervals.

Temperature-controlled:

Flushing is automatically triggered when a preset critical temperature is reached.

Consumption-controlled:

If water consumption falls below a defined minimum value, the system starts flushing (with flow sensor available as a separate item).

Flushing via 4-20 mA signal:

Flushing is flexibly controlled by external sensor signals according to demand, depending on chlorine concentration, pressure, or flow for example.





Integration into any system

In addition to cellphone or tablet control, Hycleen Flush can be easily connected, configured, monitored, and controlled via the Modbus interface with any building technology. The open communication interface (Modbus RTU) allows quick and flexible integration of the system.

Recorded processes

Automatic data logging reliably records flushing cycles and temperatures, helping to meet all verification requirements. The data are accessible at all times, both via the mobile app and centrally through the Modbus connection to the building management system.

Bidirectional operation

Drinking water hygiene in non-circulating pipes is reliably maintained through automated flushing. Alternatively, the valve can be used as a shut-off solution for selective access control, remote activation, frost protection, or leak protection. The required function is determined during the commissioning phase.

Sensors

Key to demand-driven automation

The sensors form the flexible foundation for the functionality of Hyclean Flush / Shut-Off valves, enabling system customization

+ Sensor integration & flexibility

Additional temperature sensor (PT1000):

For more comprehensive temperature monitoring within the building, external sensors can be easily integrated. Continuous monitoring at additional locations ensures safety beyond the valve location.

Expansion: External sensors (2x)

External sensors can be integrated via the standard 4–20 mA industrial signal. This enables integration of customer-supplied measurement devices (e.g., for chlorine, pressure, or humidity). The valve software flexibly converts the 4–20 mA signal into the required values and units.

Hyclean system sensors

The system is compatible with tried proven Hyclean AS components such as the flow sensor, additional temperature sensors, and discharge monitoring system.



T-sensor

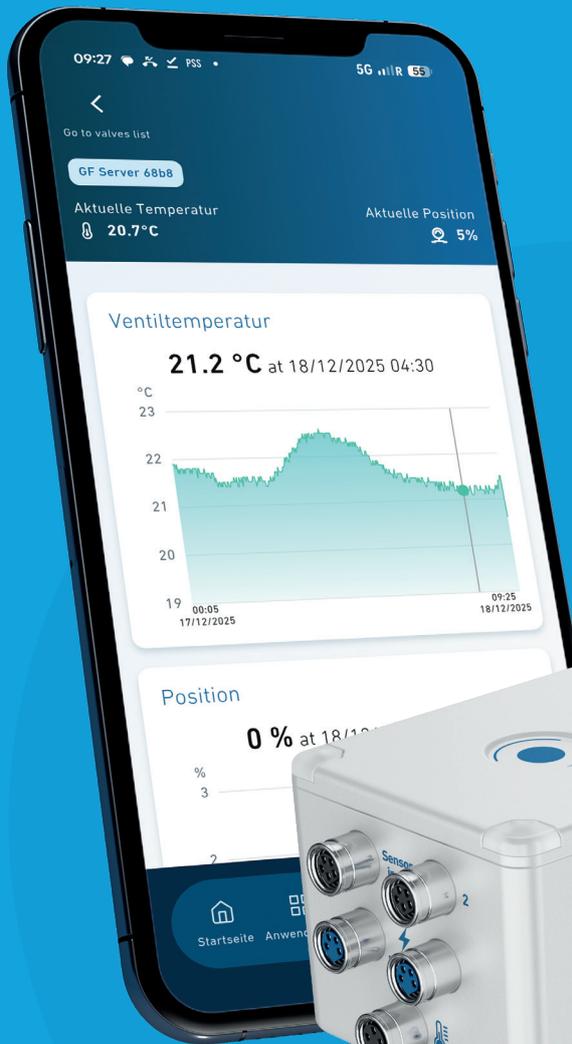


Discharge monitoring system



Flow sensor

Compatible with any end device



Operation via smartphone App (Bluetooth)

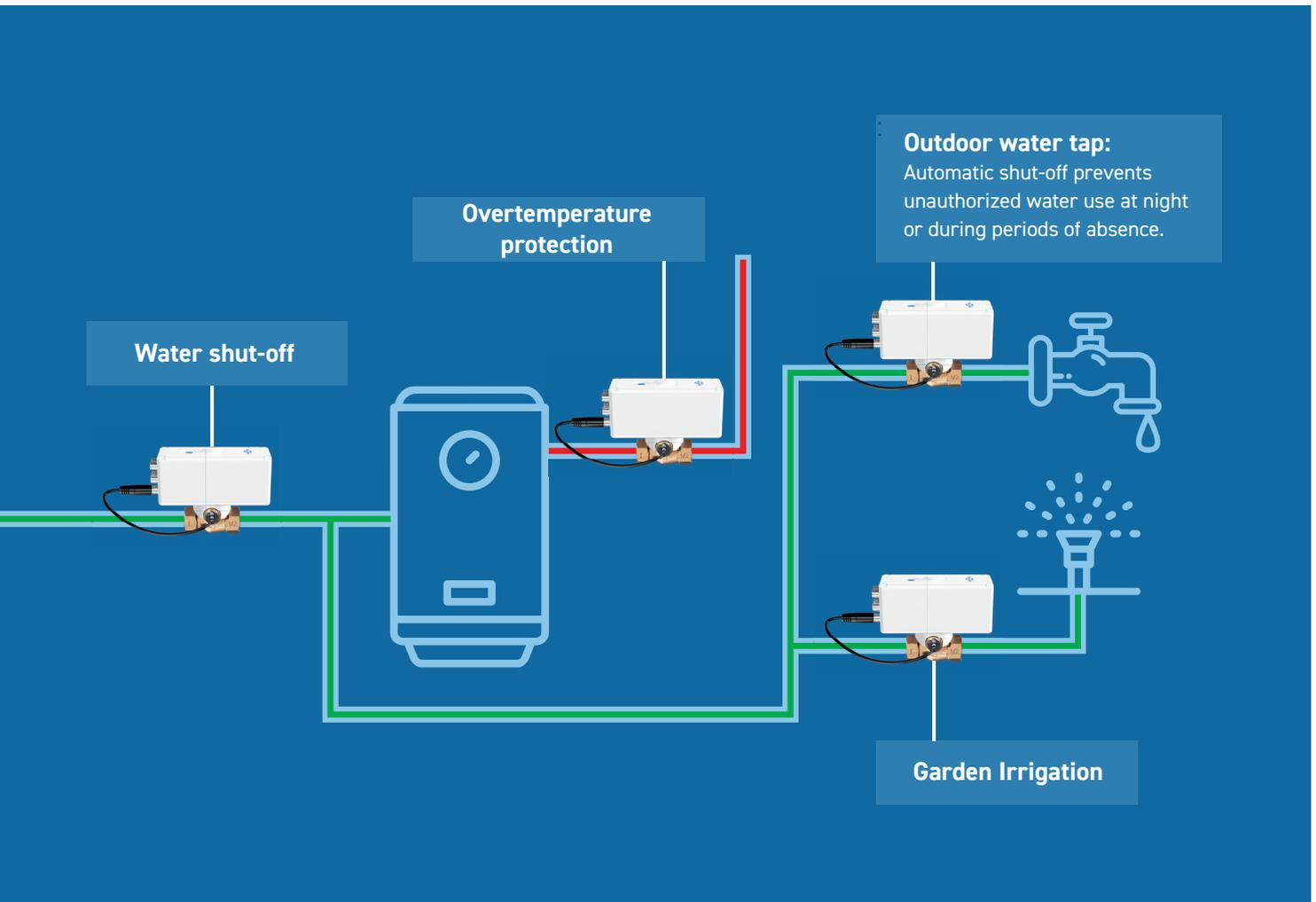
- Commissioning wizard
- Visualize temperature trends
- Download logs



Direct integration into building automation and management systems (Modbus RTU)

- Integrate temperature values & alarms
- Set parameters
- Centralized valve control

Hyclean Flush as a shut-off valve



Automatic shut-off based on defined parameters

Hyclean Flush can be used not only as a flushing valve but also as a fully functional shut-off valve. It can be flexibly controlled via the app, sensors, or the building management system. The function is selected during the commissioning phase, as instal-

lation locations within the building may vary from application to application. This enables intelligent management of water flows, adaptive response to environmental conditions such as frost or leaks, and targeted enhancement of operational safety.

A shut-off valve that thinks ahead

When used as a shut-off valve, Hycleen Flush provides an intelligent solution for protecting water-carrying systems. Pipes can be selectively shut off, monitored, and automatically closed when needed. The application is available in DN 15 and DN 20

and is ideal for tight installation spaces. States are recorded and can be controlled via app or building management system. This ensures clear control and a high degree of operational safety.

Shut-off for every scenario



Frost protection

Closes and drains the pipe when temperatures drop below 5°C.



Access control

Protects against misuse and vandalism at public water points.



Loss and damage limitation

Helps prevent damage in the event of pipe bursts or prolonged water usage.



Smart irrigation

Time-controlled watering based on a programmed weekly schedule.

Control and access



Manual and remote operation

The valve can be operated both on-site and remotely via the app, with automation options.



Building Management System (BMS)

Control via Modbus for seamless system integration.



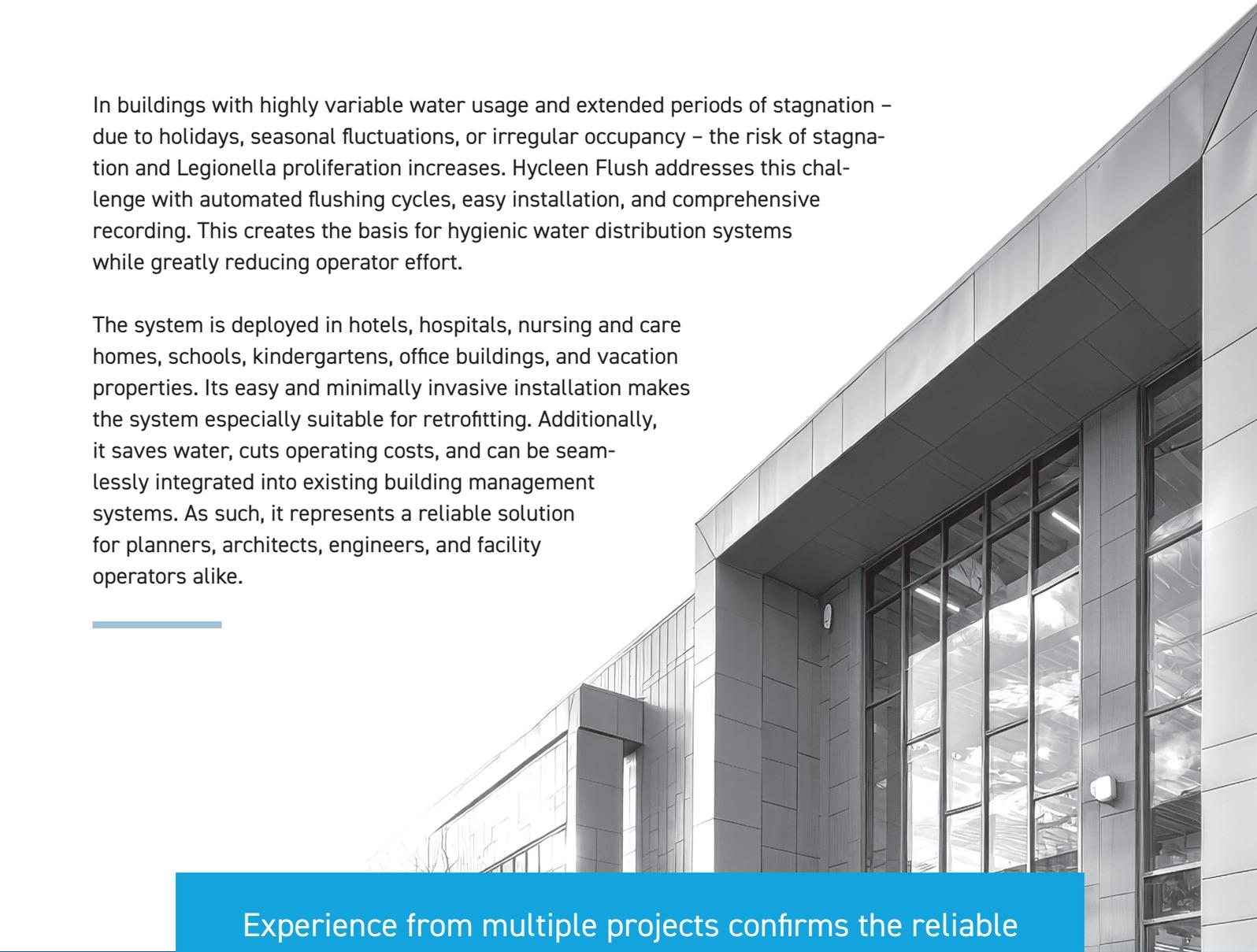
Personalized access control

System integration allows assignment of individual access rights, ensuring that only authorized personnel can operate the valve.

Flexible, reliable hygiene

In buildings with highly variable water usage and extended periods of stagnation – due to holidays, seasonal fluctuations, or irregular occupancy – the risk of stagnation and Legionella proliferation increases. Hycleen Flush addresses this challenge with automated flushing cycles, easy installation, and comprehensive recording. This creates the basis for hygienic water distribution systems while greatly reducing operator effort.

The system is deployed in hotels, hospitals, nursing and care homes, schools, kindergartens, office buildings, and vacation properties. Its easy and minimally invasive installation makes the system especially suitable for retrofitting. Additionally, it saves water, cuts operating costs, and can be seamlessly integrated into existing building management systems. As such, it represents a reliable solution for planners, architects, engineers, and facility operators alike.



Experience from multiple projects confirms the reliable hygiene provided by Hycleen Flush.

The modular Hycleen portfolio ensures the integrity of drinking water throughout the building. It helps installation engineers, planners, owners, and operators efficiently comply with the latest laws and regulations.

Florian Beutter

Head of Category Hot & Cold Water Control

GF Building Flow Solutions

The Hyclean product range



Hyclean Balance

Hyclean Flush

Hydraulic balancing	Flushing	Shut-off function
An intelligent algorithm ensures constant hydraulic balancing at ≥ 55 °C. Valves are self-calibrating.	Performs automatic flushes based on time, temperature, or consumption. Opening degree can be controlled via the app.	Automatic shut-off as required or in case of an emergency. Triggering via time, sensors, switches, or BMS.
Control via app, laptop, or building management system (Modbus RTU). Easily integrated and web-based.	Control via Bluetooth app and Modbus. Up to two external sensors can be integrated.	Control via Bluetooth app and Modbus. Up to two external sensors can be integrated.
Suitable for new builds and renovations. Ideal for residential buildings, hotels, clinics, and schools.	Perfect for non-circulating water pipes in hotels, hospitals, and sports facilities. Easily retrofitted.	Supports frost protection, leak prevention, or controlled water supply (DN 15/20).
Saves energy, water, and time. Reduces heat demand by up to 25%. Improves hygiene, comfort, and efficiency.	Conserves water and project costs, reduces manual interventions, and lowers liability risks.	Saves water, prevents damage, and offers remote access with user management support.

Excellence in Flow

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