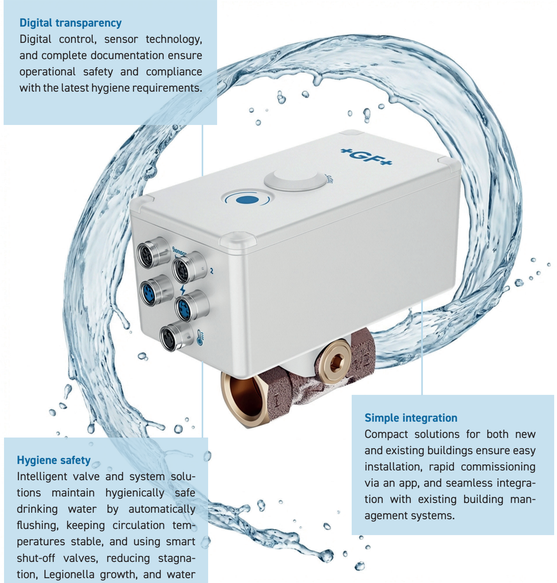
Hycleen

# Safety, transparency and efficiency combined

**Digital transparency**
Digital control, sensor technology, and complete documentation ensure operational safety and compliance with the latest hygiene requirements.




**Simple integration**
Compact solutions for both new and existing buildings ensure easy installation, rapid commissioning via an app, and seamless integration with existing building management systems.

**Hygiene safety**
Intelligent valve and system solutions maintain hygienically safe drinking water by automatically flushing, keeping circulation temperatures stable, and using smart shut-off valves, reducing stagnation, Legionella growth, and water wastage.

## Excellence in Flow

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**www.georgfischer.com/locations**

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The new digital valves from GF

# Hycleen Balance & Hycleen Flush


Hycleen

# Water management in buildings – Key challenges

**Stagnation and hygiene risks**
Drinking water is a form of food with a limited shelf life. If it stagnates for more than 72 hours, biofilms promote bacterial growth. The risk of Legionella bacteria increases significantly, especially at temperatures between 20°C and 50°C.

**Circulation and temperature stability**
Stable hot water circulation is crucial to hygiene and operational safety. Errors in the hydraulic balancing lead to lower temperatures, longer waiting times, and higher water and operating costs.

**Responsibility and liability**
Operators bear full responsibility for drinking water quality from the point of connection to the building. Manual measures are time-consuming, prone to errors, and provide only limited legal certainty without comprehensive documentation.

**Shortcomings of existing solutions**
In existing systems, many solutions offer only limited benefits. Structural modifications and additional connections make retrofits complex and maintenance-intensive.

Optimized hydraulic balancing

# Hycleen Balance

**The system automatically regulates volume flows and ensures consistent temperatures throughout the hot water circulation system, ensuring hygiene, comfort, and efficient operation.**

## Efficient and convenient

Lower energy and water consumption with faster hot water availability.

## Digital and transparent

Control via app or building management system with automatic documentation of all operating data.

## Hygiene safety

A constant circulation temperature of 55°C or higher reliably reduces the risk of Legionella.

## Simply integrated

Quick to install, low maintenance, and suitable for new and existing buildings.

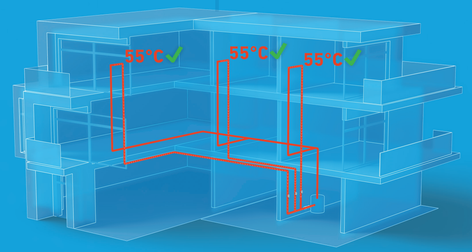

Hycleen Balance

# Hydraulic balancing with digital precision

**Hydraulic balancing is essential to efficient hot water circulation.
Hycleen Balance handles this automatically.**

- Adaptive flow control
- Temperature as a control value
- Continuous optimization of hydraulic balancing
- Weekly maintenance process

**Uniform hot water supply at all draw-off points**




Automated flushing for safe drinking water

# Hycleen Flush

**The system automatically keeps water in motion and prevents hygiene risks associated with stagnation.**

## Protection against stagnation

Automatic flushing prevents downtimes exceeding 72 hours and reacts to critical temperatures.

## Demand-driven control

Flushing based on time, temperature, or usage – hygienic and water-saving.

## Digitally documented

All flushing processes and operating data are automatically recorded and exported.

## Simply integrated

Compact solution for easy retrofitting and cost-efficient operation.


Hycleen Flush

# Hycleen Flush as a shut-off valve

**As an option, the valve can be configured as an automated shut-off valve via an app during commissioning, ensuring reliable performance of safety functions.**

- Automatic shut-off in case of leakage or frost
- Control via sensors, building management system, or app
- Ideal for public buildings, outdoor pipes, and irrigation
- Remote-controlled and fully documented

**Protection against Legionella bacteria in all pipes**