

SINGLE Water Distribution system

The Situation

Sensors for “SINGLE Water Distribution System”

“Single is a manufacturer of heat-balancing technology, including surveillance controls and manifolds. Single needs to measure, display and control the flow and temperature in their different temperature control systems.”

Single Temperiertechnik GmbH (SINGLE, ed.) have been using Grundfos Direct Sensors™ in “temperature control systems” to measure flow and temperature for more than 3 years now.

For a new water distribution system SINGLE decided to use a new version of Grundfos Direct Sensors™ to measure flow and temperature in a manifold.

The Grundfos Solution

The aim of the new water distribution system was that it had to be developed to be as compact and also as flexible as possible.

The requirement for Grundfos Direct Sensors™ was to supply a flow sensor, which could be integrated in a brass manifold in a compact way.

The VFS 1-12 QT and VFS 2-40 QT was the ideal solution, because of the possibility to integrate the cylindrical flow pipe into the brass manifold and then mount the sensor with an easy clip connection.

Another benefit was that both composite flow pipes (measuring ranges 1-12 l/min and 2-40 l/min) fit into the same brass manifold without any mechanical changes.

The Outcome

The advantage of the combination of flow and temperature could be also used in the application “Water Distribution System”.

TOPIC:

Professional water services

LOCATION:

Germany

COMPANY:

Single

The most important benefit was the possibility of integrating the sensor in the brass manifold from SINGLE.

Due to the simple integration, it was easy for SINGLE to develop the final manifold solution quickly.

With one sensor in each and every part of the Water Distribution System, SINGLE is able to measure and control every single water circuit in the complete system.

The basis for the integration of Grundfos Direct Sensors™ flow sensors in the Water Distribution System was the good experience with Grundfos sensors in a lot of other applications at SINGLE.