

COOL-FIT Weld-in port
Reliable cooling,
installed efficiently
and safely

Georg Fischer Global Head Office, Schaffhausen, Switzerland

During the implementation of a new cooling system,
the COOL-FIT Weld-in port increases the flexibility
of post-installed branches

The COOL-FIT Weld-in port offers full flexibility

During the renovation of Georg Fischer AG's head office in Schaffhausen, the Swiss flow solutions provider installed a wide range of products in applications from water hygiene to HVAC systems. While installing COOL-FIT, a pre-insulated plastic piping system, the Weld-in port allowed the necessary branches for sensors and probes to be created quickly and easily.

Project background

When the planning phase for the new Corporate Head Office began in 2020, Georg Fischer AG decided to also overhaul the cooling system in the building. This included a new central cooling facility as well as chilled ceilings on two levels. Starting in May 2022, the COOL-FIT 2.0 system was installed in dimensions up to d140 for air conditioning, while COOL-FIT 4.0 was installed in dimensions up to d450 for ventilation. In total, the new piping system reached a length of 1'500 meters.

Selected technical solution

During the implementation of the central cooling facility, the Weld-in port and the corresponding installation tools, which were specially developed for the system, played an important role. The solution was designed to create additional branches in previously installed COOL-FIT pipes for applications such as sensors and probes as well as filling, draining, and venting. This increases flexibility and simplifies planning. Thanks to its compact design, the Weld-in port facilitates branches in tight spaces, while the corresponding installation tool ensures a fast, safe, and reproducible installation.

Achieved improvement

COOL-FIT, the completely pre-insulated plastic piping system, already benefits from a 50% faster installation than post-insulated metal systems. With an installation time of around 15 minutes, the Weld-in port could further support these savings. After completing a training course, the installers were able to weld in the necessary ports without issues despite having to work in some tight spaces. As a result, the Weld-in port expands the broad range of COOL-FIT products and enables an even more flexible implementation of sustainable cooling in many applications.



A GF Piping Systems specialist conducted a training course for the installers.



Thanks to the easy and quick installation, the Weld-in port was seamlessly integrated into the existing pipe.

Customer benefits

- The factory pre-insulated plastic COOL-FIT piping system can be installed 50% faster than post-insulated metal systems. With an installation time of around 15 minutes, the Weld-in port further supports these savings.
- The Weld-in port improves flexibility during the planning stage, both during new projects as well as retrofits.
- With a wide range of branch options, e.g. threads, connectors etc., it is suited for all COOL-FIT 2.0 and COOL-FIT 4.0 pipes from d63 to d225.

Your contact

Georg Fischer Piping Systems Ltd
Ebnatstrasse 111
8201 Schaffhausen / Switzerland

Telephone +41 (0)52 631 11 11
mail@georgfischer.com
www.gfps.com

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