

Flowtech Case Study: Data Centre

Summary:



Location:
South Wales



Product Area:
Pipework



Service Area:
Supply & Installation

A Data Centre in South Wales commissioned Flowtech to deliver a pipework project that would run chilled water pipes to a computer room air-conditioning system. This pipe route spanned multiple floors and required a complex installation from our team to ensure that the project would be fulfilled.

Challenge

The ask for our installation team was to supply and install 5km of Brugg DN100 secondary contained Secon-X pipe into a Data Centre in South Wales, with a challenging and complex pipe route.

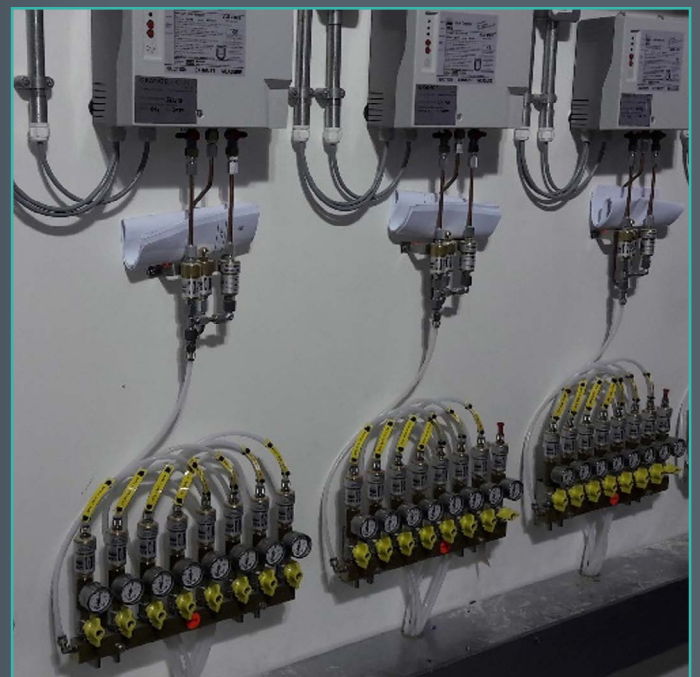
It would have to be a twin walled pipework system, with 24/7 SGB vacuum monitored leak detection system included as part of the build.



Concept

The pipework system would be ran from two headers, via pipework gantry to first floor, through internal corridors with several 90° bends. After multiple height changes, the pipework would feed into several data halls, avoiding false floor pedestals.

The starting point would be to install containment throughout the building for pipework, and outside for 56 flanged connections across a flow and return header.



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Solution

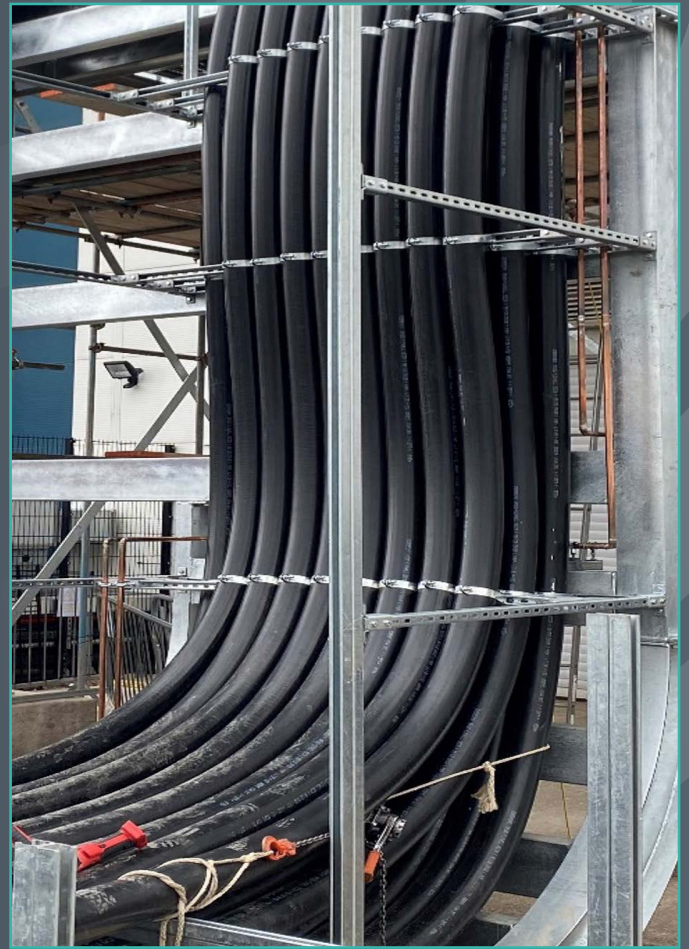
There was 5km of DN100 pipework supplied to the site, delivered across 18 cable drums with a diameter of 2.9m each. A cable drum trailer was utilised to control the pipework pull off each drum.

Pipework was pulled from a confined outdoor space, between generator banks, up the pipework gantry to the first floor data centre, and continued through the building for up to 140m.

Lastly, 7 vacuum leak detectors were installed, complete with their own 8-way manifold.

Benefit

- 5km of piping and 112 end fittings installed and tested in just 7 weeks
- Installation time drastically reduced with continuous flexible pipe installation vs site welded construction
- Each individual pipe able to be monitored and inspected individually for any leaks
- Customer extremely satisfied with project and short timescale of completion



What We Do

1

We are a high service, product provider

- Access to thousands of industry leading brands
- High stock availability
- Supplier consolidation
- Technical applicational advice

2

We design, manufacture, repair and overhaul assets

- In-house manufacturing
- Service and repair teams
- Design & engineering solutions
- Onsite diagnostics

3

We deliver major engineering projects and onsite solutions

- End to end ownership
- Onsite maintenance services
- In-house design and solutions capabilities
- Engineering teams

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