

CASE STUDY:

AIREDALE INTERNATIONAL

Leeds, West Yorkshire
England

Customer: TClarke Ltd.

Region: UK

Industry: HVAC System

Project: Airedale International
Manufacturing Facility

Product Solution:
GRINNELL Grooved
Mechanical Products

Materials: Grooved Couplings
and Fittings in sizes 1.25"-8",
Butterfly Valves, Strainers,
Check Valves,
Balancing Valves



Profile

In September 2013 a major fire at the Leeds facility of specialist air conditioning and IT cooling manufacturer, Airedale International, disrupted operations.

To minimise the impact on delivery levels, Airedale quickly relocated to an alternative site close to Leeds city centre. This posed a challenge for building services contractor, TClarke Ltd., appointed to manage the installation of Airedale's specialist in-house R&D facility, which is one of the largest of its kind in Northern Europe.

To meet this challenge, the project team at TClarke Ltd. turned to Johnson Controls and its range of GRINNELL grooved piping solutions in order to reduce installation time and cost of the project. Having worked with GRINNELL Technical Services on previous building services projects, TClarke Ltd. was confident that the GRINNELL grooved mechanical pipe jointing method could save valuable installation time and reduce safety risks through the elimination of hot works, alongside the requirement for necessary permits.

Scope of Works

TClarke Ltd. specified a complete GRINNELL grooved mechanical solution, including painted finish couplings and fittings in sizes 1.25-8", butterfly valves, strainers, check valves, circuit balancing valves and groove end metering stations. Working with one supplier reduced supply chain complexity and involved GRINNELL Technical Services during the early stages of the building services system design, enabling the team to provide guidance and advice on how best to meet the tight installation schedule.

Close involvement by the GRINNELL team in the project was key to achieving a high quality installation. Working with the piping subcontractor, JD Pipework, GRINNELL carried out a detailed training session with the site installation team, and supervised by the TClarke project team, to support them during the pipe fitting phase of the programme. This training combined installation guidance on the range of GRINNELL grooved products specified for the project, and practical, safe, hands-on operation of the GRINNELL grooving machine which works in tandem with its grooved range of components. Weekly site visits by the GRINNELL team also ensured any unexpected issues could be dealt with quickly and efficiently.

Installation of the building services system was completed in eight weeks through the use of the GRINNELL grooved range. In comparison, welded joints would have taken approximately three to four times longer for this type of project. This speed of installation helped to ensure the overall construction schedule was kept to a minimum, enabling Airedale to avoid unnecessary loss of production.



WHY GRINNELL Grooved Mechanical Products?

"The tight construction schedule meant that we required a robust and reliable jointing method that would save us valuable time while also protecting the safety of the installation team. The training provided by GRINNELL was an added benefit to our pipework subcontractor and ensured a hassle-free installation of the mechanical system."

Keith Pearson
Project Manager
TClarke Ltd.

Benefits

"We're familiar with the GRINNELL grooved product range having worked with the team on previous projects," comments Keith Pearson, project manager at TClarke Ltd. "The tight construction schedule meant that we required a robust and reliable jointing method that would save us valuable time while also protecting the safety of the installation team. The training provided by GRINNELL was an added benefit to our pipework subcontractor and ensured a hassle-free installation of the mechanical system. We're delighted with the technical support and guidance provided by the GRINNELL team."

Mark Lane, Sales Manager, adds, "Fast and efficient installation were key to avoiding lost production for Airedale International. Working in close collaboration with the team at TClarke Ltd. from the project outset enabled us to identify where valuable time could be saved and where additional support could be provided to the installation team. We've been running our on-site training initiative for over 10 years, and in that time we've trained many thousands of contractors. And once individuals complete the training, they're certified for any future projects, which we believe promotes high quality workmanship and supports the skills development of building services installers."

Airedale continues to operate from its alternative site until its brand new, purpose-built facility is completed at the end of 2015.



GRINNELL Mechanical Grooved HVAC System Installation



GRINNELL is part of Johnson Controls, a global diversified technology and multi industrial leader serving a wide range of customers in more than 150 countries. Our 117,000 employees create intelligent buildings, efficient energy solutions, integrated infrastructure and next generation transportation systems that work seamlessly together to deliver on the promise of smart cities and communities.

Our commitment to sustainability dates back to our roots in 1885, with the invention of the first electric room thermostat. We are committed to helping our customers win and creating greater value for all of our stakeholders through strategic focus on our buildings and energy growth platforms.

For additional information, please visit www.johnsoncontrols.com or follow us on Twitter [@johnsoncontrols](https://twitter.com/johnsoncontrols).



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