Faster joining for HVAC and potable water applications

Victaulic, a manufacturer of mechanical pipe-joining systems, has announced the availability of its grooved solution for copper systems in the UK.

The Victaulic copper connection system complies with EN1057 half hard copper tubing sizes DN50 to DN150 (2 to 6") and can withstand pressures up to 2,450kPa/355psi depending on the type and size of copper tubing. The product line consists of WRAS-approved Style 606 rigid coupling with grade 'EW' EPDM gasket for joining copper tubing and a range of full-flow, standard radius wrought copper fittings supplied with grooves.

"We are pleased to offer our customers in the UK a faster and more efficient solution for joining copper tubing," commented Ian Lawless, vice president UK. "Victaulic is committed to providing innovative solutions that lead to dramatic gains in productivity and the copper connection system is a result of that commitment."

The Victaulic copper connection system is designed for HVAC and plumbing applications, and is claimed to install twice as fast as alternative joining methods, reducing rework on systems by 10 to 15 per cent when compared to brazed or soldered systems. The flame-free joining method also enhances on-site safety by eliminating toxic fumes associated with brazing or soldering.

The Style 606 rigid coupling provides a union at every joint for fast assembly and disassembly for any on-site rework and maintenance required.

Victaulic – USA
www.victaulic.com

Detecting metallic inclusions and defects in copper tube

A frequent problem for copper tube producers is the presence of foreign metallic inclusions, which can lead to failures, particularly in fluid transmission applications. Magnetic Analysis Corp's eddy current Multimac® tester with an additional magnetic inclusion detector (MID) absolute channel provides a convenient, reliable solution that can detect inclusions as small as 3mg.

In many cases, the inclusion can come from the material itself, which may contain residual impurities from continuous casting. In other cases, such as finned tube, the inclusions develop during the manufacturing process, where small particles of metal such as tungsten can break off from fabricating tools and become imbedded in the OD or even through the wall.

The MID option uses principles of flux leakage technology. A magnetic dual-coil test sensor consisting of one primary winding, associated with a secondary arranged in differential mode, and one single absolute winding for detecting metallic inclusions, is used.

A stable DC magnetic field is created and, in its presence, a magnetic particle on or within the non-ferrous product passing through the test coil will distort this magnetic field. The distortion induces a signal that is detected by the Multimac electronics, analysed and displayed on the monitor.

Additional conditions that can be detected by the Multimac are surface defects on the ID and OD, splits, tears, pinholes, and other irregularities such as indication of a broken disc. Setups and test data can be stored, recalled, printed and transferred to customer networks.

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