

ENGINEERING
TOMORROW



Case study | Solenoid valves EV220W | The Bower, London

Danfoss **solenoid valves** tick all the right boxes in **landmark London building**



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Danfoss EV220W WRAS approved Solenoid valves are playing an important role in a BREEAM Wat 03 compliant solution for a landmark building in The Bower, a vibrant commercial destination in Old Street, London EC1. The automatic water shut-off valves are used to manage water consumption and reduce the risk of flooding caused by running taps or leaking pipes in washrooms.

Installed on the cold-water feeds to these facilities the EV220W valves are linked to PIR sensors. The sensors detect when a person enters the room and communicate with the installed solenoid valves to open and turn the water supply on for a pre-set length of time. Once the room is vacated the power is cut off, closing the valve and avoiding potential water wastage and damage due to overflows. The prestigious project involved the installation of 160 Danfoss EV220W valves in two sizes. The Normally Closed (NC) option was specified from the Danfoss range and the valves are 230Vac, indirect servo operated and operating on a minimum differential pressure of (0.3 - 10bar).

WRAS approved solenoid valves offer peace of mind solution

The EV220W solenoid valve offers a peace-of-mind solution for contractors and their clients, meeting all relevant regulations including WRAS approval and RoHS Directive 2011/65/EU certification. As well as comprehensive approvals, the advanced EV220W valve boasts a number of innovative features to assist installation, promote safety in use and provide a long service life. The valve's clip-on coil, which is available in different voltages, is specially designed by Danfoss to make installation quicker and easier. In addition, the valve is IP65 rated for safe function in a humid environment and is insensitive to dirt. The EV220W also features effective water hammer damping, while the reinforced diaphragm ensures long lasting durability.

Straightforward specification and installation

Brian Skelly, Specification Manager for Danfoss, worked closely with project contractor, Imtech Engineering Services London & South, to determine the most appropriate solution for

The Bower. Brian and his team provided expert product and technical support to ensure the specification met the project's exacting demands in terms of compliance, ease of installation and long term performance.

Graeme Clement, Projects Director from Imtech, comments: "The BREEAM Wat 03 application for the WCs within a commercial building is an important application, picking the right products is critical for both the application and the contractor. Having worked with Danfoss on previous projects, I knew their product and technical support was first class. The Danfoss range of solenoid valves ticks all the relevant boxes – they are WRAS approved, RoHS certified and their products are tried and tested and made to the highest quality. The installation was straightforward and made easier with their simple clip-on coils."



Contact Brian Skelly, Specification Manager at Danfoss for more information – brian.skelly@danfoss.com

For more information visit www.tallbuildings.danfoss.co.uk